

D-FLEX Couplings

Page PT1-2

- Low-cost Type J couplings offered in four sizes
- Type S couplings feature AGMA 9 balanced flanges off the shelf
- Type B couplings offered with standard QD bushing shaft attachment
- Type SC spacer couplings satisfy standard spacing requirements for pump
- Rounded EPDM and Neoprene elements for improved fit and longer
- AGMA 9 balance on S and SC flanges for reduced vibration



Applications

- Interchangeable components make installation quick, easy
- No lubrication assures trouble-free operation

PARA-FLEX Couplings

Page PT1-14

- Torque transmitted through composite element system
- Finished-bore and TAPER-LOCK® flange designs
- Five-year limited warranty
- No lubrication and visual inspection reduces maintenance time
- Accommodates highest misalignment of any coupling in the industry
 - 4° angular
 - 1/8" parallel
 - 5/16" end float



GRID-LIGN Couplings

Page PT1-42

- Flexible tapered element isolates vibration and cushions shock loads
- High-torque capability
- Interchangeability with other taper grid couplings
- Speed capability as high as 6000 RPM
- Tapered grid design



Gear Couplings

Page PT1-52

- High-quality forged steel
- Largest tooth profile provides additional service factor
- Largest bore capacity in the industry, in most sizes
- Proven "O"-ring seal design
- Machined flanges for improved sealing
- High-grade fasteners
- High-torque rating allows for coupling downsizing
- Crowned tooth profile for longer life and improved performance
- Interchangeable with industry-standard gear couplings half for half



Chain Couplings

Page PT1-57

- Simple, widely accepted, inexpensive way to couple two shafts
- Interchangeable with industry-standard dimensions
- Can be provided with TAPER-LOCK bushed hubs, finished bore, or reboreable flanges
- Covers and assemblies available from stock
- Shaft attachment flexibility
- High-torque capability
- Compact design
- Low operating cost
- Broad product line



Fluid Couplings

Page PT4-1

- Motor starts under no-load conditions
- Starting torque can be customized easily
- Permits use of standard NEMA design B motors
- Reduced voltage starters not needed
- Sizes 7 to 24 KSD with standard QD mounting sheave style
- Sizes 7 to 19 KSD use collect mounting for a wide range of
- KCP and CKCP mountings may require tapped motor shaft
- Available in standard and delay fill for increased control
- Optional fuse plug for overload protection
- Contact DODGE for non-standard sheaves



REFERENCE GUIDE



Rigid Coupling

Page PT 1-65

- Metallic Coupling
- Requires no lubrication
- Taper-Lock Bushing allows for connection of two different shaft sizes
- 8 Flange Sizes thru 6" Bore
- Torque up to 254,500 in. lbs.
- Max RPM = 4965



Ribbed Rigid Coupling

Page PT1-66

- Metallic Coupling
- Requires no lubrication
- Clearance Fit with Full Length Key
- Same shaft size required on both sides
- 34 Sizes thru 7" Bore
- Torque up to 404,000 in. lbs.
- Max RPM = 5360



Poly-Disc Coupling

Page PT1-63

- Requires no lubrication
- Taper-Lock Bushing allows for connection of two different shaft sizes
- Polyurethane Element
- Pin design cushions Shock Loads
- Excellent for Washdown Applications
- Wide Temperature Range (-90 to 170 Deg F)
- Misalignment = 2 deg.Angular, 1/32 in. parallel



FLEXIDYNE Couplings

Page PT3-1

- Motor starts under no-load conditions
- Permits use of STD NEMA-B motor
- Coupling or drive styles available
- 100% efficient, no slippage
- Can provide overload protection by slipping at loads somewhat greater than pre-set starting torque



Heavy Duty Drum Pulley

Assemblies

Page PT13-10

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 750 PIW/131 kN/m
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and groove surfaces
- Vulcanized 60 durometer D-Lag with +73% more abrasion resistance than 60 durometer SBR
- Drums either center crowned or straight face



Heavy Duty Wing Pulley

Assemblies

Page PT13-22

- Standard, stock pulley assemblies fit CEMA dimensions and exceed the CEMA application standards for use with conveyor belts rated up to 350 PIW/61 kN/m
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Slide-on 92 durometer urethane wing lagging 1/2" thick or 45, 60, and 70 durometer SBR, vulcanized directly to contact bars. Also weld-on strips with 45 and 60 durometer with prebonded SBR rubber lagging



MINE DUTY EXTRA

Wing Pulley Assemblies

Page PT13-28

- Made to order based on conveyor load, belt tension, and belt wrap
- Designed for use with DODGE Mine Duty EXTRA drum pulleys
- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- Rugged wing-on-drum construction incorporating 2" x 3/4" thick contact bars, 3/8" thick wings, and 3/8" thick spacers
- Up to 1/2" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 Neoprene rubber lagging on contact bars
- Vulcanized 60 durometer D-Lag with +73% more abrasion resistance than 60 durometer SBR



REFERENCE GUIDE



MINE DUTY EXTRA Drum Pulley Assemblies Page PT13-28

- One-piece integral hubs eliminate welded hub heat-affected zones (HAZ)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications
- 360° welding of internal center disc
- Up to 1" vulcanized 45, 60, and 70 durometer SBR and 45, 60, and 70 durometer Neoprene rubber lagged with plain and groove surfaces
- Vulcanized 60 durometer D-Lag with +73% more abrasion resistance than 60 durometer SBR
- Drums either center crowned or straight face



Engineered Drum Pulley Assemblies Page PT13-30

- Made to order based upon conveyor load, belt tension, belt wrap angles, and bearing centers
- Supplied for belt ratings up to and exceeding 8000 PIW or 1400 kN/m
- Welded, integral, and "T" section super hub versions minimize the harmful effects of weld heat-affected zones (HAZ)
- 14° taper bushings with the lowest installation stress of any taper bushing shaft mounting system for two hub pulley applications up to 12" shaft diameter
- B-LOK keyless locking devices for shafts from 11" to 30" diameter



Weld-On Hubs Page PT6-12

- Full line of TAPER-LOCK and QD available
- Steel material with rugged, compact designs
- Hubs to accommodate most bushing sizes
- Made-to-order capabilities—special construction and materials



Bushings Page PT6-1

- Full line of TAPER-LOCK and QD available
- Stock sizes available up to 12" shaft diameter
- Material: sintered steel, cast iron, ductile iron, and stainless steel
- Easy installation and demounting
- Inch and metric bores



V-Belt Sheaves Page PT7-27

- Full line of TAPER-LOCK and QD available
- Classical (A, B, and C) and D-V Wedge style (3V, 5V, and 8V) groove profiles
- Stock sizes from one to 12 grooves and 2.65" to 71" in diameter
- Manufactured to MPTA standards
- MTO capabilities—material, construction, BTS, etc.
- Computer drive selection available



V-Belts Page PT7-28

- Full range of Classical (A, B, and C) and D-V Wedge (3V, 5V, and 8V) belts
- Manufactured to RMA standards
- Poly-band, Double-V (hex), and FHP belts available
- Lengths from 22" to 660"
- Drive capability from 1 HP to over 1000 HP



FHP Belt Drives Page PT8-10

- Full range of FHP belts available
- Finished-bore and "QT" bushed style sheaves available
- "QT" bushings available in metric bores
- Cast iron and manufactured to MPTA standards
- Sheave outside diameter range: 1-1/2" to 19-3/4"
- Variable pitch sheaves available
- Computer drive selection available



REFERENCE GUIDE



Roller Chain Drives

Page PT12-2

- Sprockets manufactured to ANSI standard
- TAPER-LOCK sprockets: #35 (3/8" pitch) to #160 (2" pitch)
- Double-strand, double-single, and re-boreable sprockets also available
- Special machining and re-bore capabilities
- Accessories available: chain casings, idlers, tensioners, etc.
- Hardened teeth up to 25 teeth on #40 through #160 sprockets
- Chain tools available



HT Synchronous (Timing) Belt Drives

Page PT11-2

- Full line of TAPER-LOCK, QD, and minimum plain bore sprockets
- Higher capacity drives
- Available pitches: HT series, 5 mm, 8 mm, and 14 mm
- Made-to-order sprocket capabilities: construction, non-standard number of teeth, etc.
- HT200 belt profiles
- Computer drive selection available



D-Series Motor Brakes

Page PT2-6

- Exceptionally long-life friction material
- Internally rectified DC coil provides quieter operation
- Easy installation and external adjustment
- One moving part, reduces replacement parts
- Smooth stopping action
- Splined hub for superior load distribution
- Manual release



Clutch/Brake Modules

Page PT2-12

- Conforms to UL and CSA requirements
- One-piece, die-cast housing simplifies mounting; housing finned for maximum heat dissipation
- Pre-lubricated and sealed ball bearings have higher B10 life rating than competitive modules
- High-torque, non-asbestos friction material assures long life and environmental safety
- Armatures incorporate a high-impact, high-temperature molded spline for heavy-torque and high-cycle capabilities
- DYNA-GAP automatic air gap mechanism automatically compensates for friction surface wear
- Modules are factory assembled, adjusted, and burnished for easy installation and out-of-the-box operation
- Rotor incorporates ball bearing and Driv-Lok key for foolproof installation
- Standard NEMA C-face and base mounted, shaft-in/shaft-out mounting configurations



Torque Tamer Clutch

Page PT2-19

- Low cost overload protection
- Easy Set Adjustment = Adjustable slip-protection torque level
- Non asbestos friction discs
- Long Life Bushing
- Application Versatility: May be used with sprockets, gears, sheave, flange or other driven members.



Shaft Mounted Clutches & Brakes

Page PT2-19

- Bore to Size and Taper Lock Bushings
- Voltage Input = 90, 24 and 6 VDC
- Static Torque Range: 22 lb-ft thru 175 lb-ft
- Factory Assembled, Adjusted, Burnished
- Dyna-Gap Self Adjusting Mechanism
- Heavy Duty Spline Driven Armature



DODGE Power Transmission Components Catalog

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Couplings

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Easy Selection

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FEATURES/BENEFITS



D-FLEX Couplings

FLEXIBLE SOLUTIONS

LOW COST TYPE J COUPLINGS OFFERED IN FOUR SIZES

- Features zinc die-cast flanges that are bored to size
- Accommodates applications through 10 HP at 1750 RPM
- Available with EPDM or Neoprene sleeves
- Shaft attachment with two setscrews at 65°



TYPE S COUPLINGS FEATURE AGMA 9 BALANCED FLANGES OFF THE SHELF

- High-strength, cast iron flanges that are finished bored for AGMA clearance fit
- Offers plain bore for reboring
- Available with EPDM, Neoprene or Hytrel* sleeves
- Shaft attachment with two setscrews at 65°



TYPE B COUPLINGS OFFERED WITH STANDARD QD[†] BUSHING SHAFT ATTACHMENT

- Constructed from high-strength cast iron
- Available with EPDM or Neoprene sleeves



TYPE SC SPACER COUPLINGS SATISFY STANDARD SPACING REQUIREMENTS FOR PUMP APPLICATIONS

- Accommodates wide range of shaft spacing
- Features AGMA 9 balanced flanges & drop-out center for easy equipment maintenance
- Available with EPDM, Neoprene or Hytrel sleeves
- Uses H & HS shaft hubs that are bored to size for slip fit or offered with plain bore for reboring
- Shaft attachment with two setscrews at 65°
- Shaft hub flats are used for holding shafts stationary while loosening or tightening grade 8 bolts



* Registered trademark of DuPont

† QD is a registered trademark of Emerson Electric Co.



D-FLEX Couplings

ADDED VALUE

Outside diameter concentric to bore for ease in alignment

Rounded EPDM and Neoprene element edges for full tooth engagement, even load distribution, and reduced stress build up at edges



Two setscrews at 65° on Type J flanges, Type S flanges & type SC-H hubs for optimum shaft attachment. Holding force is 10% greater than two setscrews at 90°

Type S and SC flanges are balanced to AGMA 9 specifications for reduced vibration

INTERCHANGEABLE COMPONENTS MAKE INSTALLATION QUICK, EASY

- Interchangeable with other elastometer sleeve couplings
- Slides into position for snug fit

NO LUBRICATION ASSURES TROUBLE-FREE OPERATION

- No metal-to-metal contact
- Provides clean, quiet, trouble-free performance



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



D-FLEX

SPECIFICATION

D-FLEX Couplings employ a molded, non-lubricated elastomeric flexing sleeve loaded in shear. The flexible sleeve shall be of EPDM, Neoprene, or Hytrel. The compound of EPDM shall be suitable for operation in ambient temperature from -30°F to +275°F, Neoprene 0°F to +200°F, and Hytrel -65°F to +250°F. Both EPDM and Neoprene sleeves shall have torsional flexing capability of 15° and accommodate 1° of angular misalignment. Hytrel sleeves, suitable to transmit four times the power of EPDM or Neoprene, has torsional flexing capability of 7° and 1/4° of angular misalignment.

The flexible sleeve is connected with external and internal gear teeth that engage with mating teeth in each flange. The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit or QD Bushings. Clearance fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

Spacer Couplings consist of two hubs and a center assembly consisting of two spacer hubs and one flexible element. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment and must be replaceable without disturbing the coupled equipment and without realignment.

HOW TO ORDER

Standard couplings consist of:

- (2) Flange Assemblies
- (1) Flexible Sleeve

Spacer Couplings consist of:

- (2) Shaft Hubs
- (2) Spacer Flanges
- (1) Flexible Sleeve

NOMENCLATURE



6 JE / 2 - 6J X 7/8

SIZE _____

SLEEVE _____
(JE, JES, E, JN, JNS, N, H, HS)

FLANGE QTY. _____

FLANGE SIZE AND TYPE _____
(J, S, B, SC-H)

FLANGE B ORE _____



D-FLEX

DODGE PRESELECTED D-FLEX COUPLINGS FOR ELECTRIC MOTORS @ 1800 RPM

MOTOR			D-FLEX TYPE J			D-FLEX TYPE B OD BUSHED			D-FLEX TYPE S			D-FLEX TYPE SC		
H.P.	FRAME	SHAFT-DIA.	SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR		
			LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0
1	143T	0.875	3J	3J	4J	6B	6B	6B	5S	5S	5S	5SC	5SC	5SC
1.5	145T	0.875	3J	4J	4J	6B	6B	6B	5S	5S	5S	5SC	5SC	5SC
2	145T	0.875	4J	4J	5J	6B	6B	6B	5S	5S	5S	5SC	5SC	5SC
3	182T	1.125	5J	5J	5J	6B	6B	6B	5S	5S	5S	5SC	5SC	5SC
5	184T	1.125	5J	6J	6J	6B	6B	6B	5S	6S	6S	5SC	6SC	6SC
7.5	213T	1.375	6J	6J	*	8B	8B	8B	6S	6S	7S	6SC	6SC	6SC
10	215T	1.375	6J	*	*	8B	8B	8B	6S	7S	7S	6SC	7SC	7SC
15	254T	1.625	*	*	*	8B	8B	8B	7S	8S	8S	7SC	8SC	8SC
20	256T	1.625	*	*	*	8B	8B	9B	7S	8S	9S	7SC	8SC	9SC
25	284T	1.875	*	*	*	9B	9B	9B	8S	9S	9S	8SC	9SC	9SC
30	326T	1.875	*	*	*	9B	9B	10B	8S	9S	10S	8SC	9SC	10SC
	286TS	1.625	*	*	*	8B	9B	10B	8S	9S	10S	8SC	9SC	10SC
40	324T	2.125	*	*	*	10B	10B	10B	9S	10S	10S	9SC	10SC	10SC
	324TS	1.875	*	*	*	9B	10B	10B	9S	9S	10S	9SC	10SC	10SC
50	326T	2.125	*	*	*	10B	10B	11B	9S	10S	11S	9SC	10SC	11SC
	326TS	1.875	*	*	*	9B	10B	11B	9S	10S	11S	9SC	10SC	11SC
60	364T	2.375	*	*	*	10B	11B	11B	10S	11S	11S	10SC	11SC	11SC
	364TS	1.875	*	*	*	10B	11B	11B	10S	11S	11S	10SC	11SC	11SC
75	365T	2.375	*	*	*	10B	11B	12B	10S	11S	12S	10SC	11SC	12SC
	365TS	1.875	*	*	*	10B	11B	12B	10S	11S	12S	10SC	11SC	12SC
100	404T	2.875	*	*	*	12B	12B	12B	11S	12S	12S	11SC	12SC	12SC
	404TS	2.125	*	*	*	11B	12B	12B	11S	12S	12S	11SC	12SC	12SC
125	405T	2.875	*	*	*	12B	12B	13B	11S	12S	13S	11SC	12SC	13SC
	405TS	2.125	*	*	*	11B	12B	13B	11S	12S	13S	11SC	12SC	13SC
	444T	3.375	*	*	*	12B	12B	13B	11S	12S	13S	11SC	12SC	13SC
	444TS	2.375	*	*	*	11B	12B	13B	11S	12S	13S	11SC	12SC	13SC
150	444/5T	3.375	*	*	*	12B	13B	13B	12S	13S	13S	12SC	13SC	13SC
	444/5TS	2.375	*	*	*	12B	13B	13B	12S	13S	13S	12SC	13SC	13SC
200	444T	3.375	*	*	*	12B	13B	13B	12S	13S	14S	12SC	13SC	14SC
	444TS	2.375	*	*	*	12B	13B	13B	12S	13S	14S	12SC	13SC	14SC

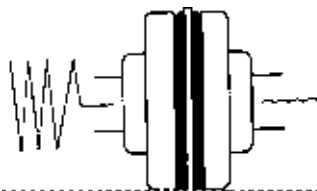


SELECTION/DIMENSIONS



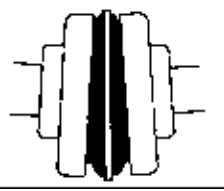
D-FLEX Couplings

FOUR-WAY FLEXING ACTION HANDLES SHOCK, VIBRATION & MISALIGNMENT



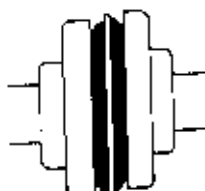
TORSIONAL

Absorbs torsional shock, dampens torsional vibrations



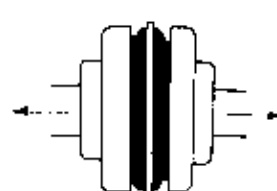
ANGULAR

Absorbs angular misalignment without wear



PARALLEL

Minimizes radial bearing loads, absorbs parallel misalignment with less wear & energy loss



AXIAL

Allows for shaft end-float

D-FLEX COUPLING SLEEVES

	EPDM RUBBER	NEOPRENE	HYTREL ⁽¹⁾
One-Piece Solid Construction	JE	JN	H
One-Piece Split Construction	JES	JNS	-
Two-Piece Construction	E	N	HS
Sizes Offered	3 - 10 JE, JES 4 - 16 E	3 - 10 JN, JNS 4 - 14 N	6 - 12 H, HS
Temperature Range	-30°F to +275°F	0°F to +200°F	-65°F to +250°F
Max Angular	1°	1°	1/4°
Max Parallel ⁽²⁾	.010" -.062"	.010" -.062"	.010" -.035"
Axial End-Float ⁽²⁾⁽³⁾	.03" -.125"	.03" -.125"	.06" -.125"
Torsional Flexibility	15° Wind Up	15° Wind Up	7° Wind Up
Application Use	General	Good Oil Resistance	Downsizing For Use Of Smaller Couplings

(1) Do not use with J or B flanges or as a replacement for other sleeves

(2) Depends on coupling size.

(3) Increase the E dimension by this amount to accommodate end float.



D-FLEX Couplings

D-FLEX COUPLING SLEEVES - PART NUMBERS

Coupling Size	EPDM			Neoprene			Hytrel	
	JE	JES	E	JN	JNS	N	H	HS
3	• 004208	• 004242		• 004209	• 004243			
4	• 004210	• 004244	• 022190	• 004211	• 004245	• 022211		
5	• 004212	• 004246	• 022191	• 004213	• 004247	• 022212		
6	• 004214	• 004248	• 022192	• 004215	• 004249	• 022213	• 022183	• 022232
7	• 004216	• 004250	• 022193	• 004217	• 004251	• 022214	• 022184	• 022233
8	• 004218	• 004252	• 022194	• 004219	• 004253	• 022215	• 022185	• 022234
9	• 004220	• 004254	• 022195			• 022216	• 022186	• 022235
10	• 004222	• 004256	• 022196			• 022217	• 022187	• 022236
11			• 022197			• 022218	022188	022237
12			• 022198			• 022219	022189	022238
13			• 021990			021993		
14			• 021991			021994		
16			• 021992					

• Stocked sleeves

D-FLEX FLANGE/SLEEVE COMPATIBILITY

Flange Style	EPDM		Neoprene		Hytrel	
	JE/JES 1 Piece	E 2 Piece	JN/JNS 1 Piece	N 2 Piece	H 1 Piece	HS 2 Piece
Type J	√	√	√	√		
Type S	√	√	√	√	√	√
Type B Bushed	√	√	√	√		
SC Spacer	√	√	√	√	√	√

D-FLEX SECTION/RATINGS DATA

Element Size	Max. Bore				Max RPM	EPDM & Neoprene		Hytrel	
	Straight Bore			Bushed		HP/1000	Rated Torque (In-Lbs)	HP/100	Rated Torque (In-Lbs)
	Type J	Type S	Type SC	Type B					
3	7/8	-	-	-	9200	0.10	60	-	-
4	1	-	-	-	7600	0.19	120	-	-
5	1-1/8	1-1/4	1-1/8	-	7600	0.38	240	-	-
6	1-3/8	1-7/8	1-3/8	1-3/16	6000	0.71	450	2.90	1,800
7	-	1-7/8	1-5/8	1-3/16	5250	1.20	725	4.60	2,875
8	-	2-3/8	1-7/8	1-5/8	4500	1.80	1,135	7.20	4,530
9	-	2-7/8	2-1/8	1-15/16	3750	2.80	1,800	11.40	7,200
10	-	3-3/8	2-3/8	2-1/2	3600	4.60	2,875	18.00	11,350
11	-	3-7/8	2-7/8	2-13/16	3600	7.20	4,530	28.60	18,000
12	-	3-15/16	2-7/8	3-1/2	2800	11.40	7,200	50.00	31,500
13	-	4-1/2	3-3/8	3-15/16	2400	18.00	11,350	75.00	47,268
14	-	5	3-7/8	3-15/16	2200	28.60	18,000	115.00	72,480
16	-	6	-	4-1/2	1500	75.00	47,250	-	-

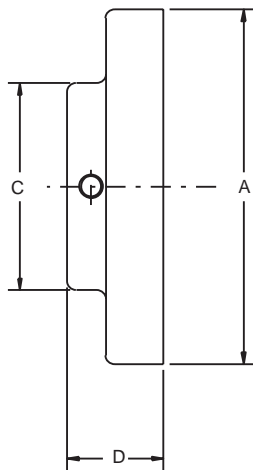


SELECTION/DIMENSIONS

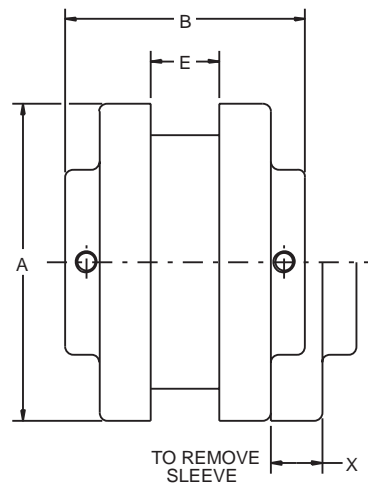


D-FLEX Couplings

TYPE "J" COUPLING DIMENSIONS



TYPE "J" FLANGE



TYPE "J" COUPLING

DIMENSIONS

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (in.-lbs.)	Max. RPM	A	B	C	D	E	X	Weight (lbs.)
3J	3/8	7/8	0.10	60	9200	2.06	2.00	1.50	0.81	0.38	0.56	0.3
4J	1/2	1	0.19	120	7600	2.46	2.38	1.63	0.88	0.63	0.75	.04
5J	1/2	1-1/8	0.38	240	7600	3.25	2.88	1.88	1.06	0.75	0.97	.09
6J	5/8	1	0.71	4150	6000	4.00	3.31	1.94	1.22	.88	1.09	1.4
6J	1-1/8	1-3/8	0.71	450	6000	4.00	3.31	2.50	1.22	0.88	1.09	1.2

PART NUMBERS

Bore (in.)	Coupling Flange			
	3J	4J	5J	6J
3/8	• 022700			
1/2	• 022701	• 022708	• 022714	
5/8	• 022702	• 022709	• 022715	• 022721
3/4	• 022703	• 022710	• 022716	• 022722
7/8	• 022704	• 022711	• 022717	• 022723
15/16		• 022712	• 022718	• 022724
1		• 022713	• 022719	• 022725
1-1/8			• 022720	• 022726
1-3/16				• 022727
1-1/4				• 022728
1-3/8				• 022729

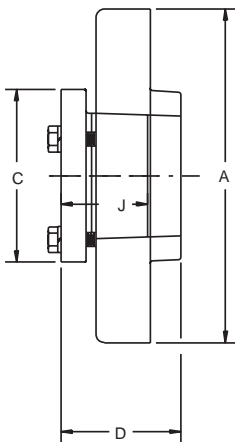
- Stock flange assemblies

Complete coupling consists of (2) J flanges, and (1) sleeve.

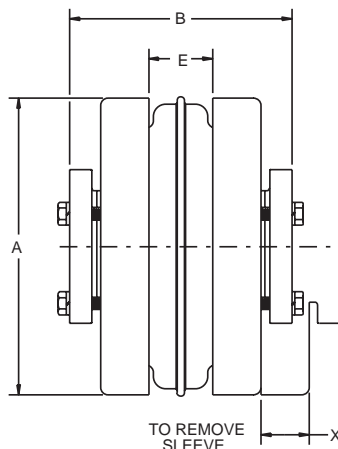


D-FLEX Couplings

TYPE "B" QD BUSHED COUPLING DIMENSIONS



TYPE "B" FLANGE



TYPE "B" COUPLING

DIMENSIONS

Coupling Size	Bushing Type	Min. Bore	Max. Bore#	HP/100*	Torque* (in.-lbs.)	Max. RPM	A	B	C	D	E	J	X	Weight (lbs.)+	
														Flange	Bushing
6B	JA	1/2	1-3/16	0.71	450	6000	4.00	3.31	2.00	1.53	0.88	1.00	1.09	1.30	0.40
7B	JA	1/2	1-3/16	1.20	725	5250	4.63	3.44	2.00	1.59	1.00	1.00	1.31	1.90	0.40
8B	SH	1/2	1-5/8	1.80	1135	4500	5.45	4.06	2.63	1.84	1.13	1.31	1.50	2.90	0.90
9B	SD	1/2	1-15/16	2.80	1800	3750	6.35	4.63	3.19	2.19	1.44	1.81	1.75	4.80	1.60
10B	SK	1/2	2-1/2	4.60	2875	3600	7.50	5.63	3.88	1.84	1.63	1.94	2.00	7.80	2.70
11B	SF	1/2	2-15/16	7.20	4530	3600	8.63	6.56	4.63	2.13	1.88	2.00	2.38	12.00	3.80
12B	E	7/8	3-1/2	11.40	7200	2800	10.00	7.94	6.00	2.69	2.31	2.75	2.69	18.00	9.00
13B	F	1	3-15/16	18.00	11350	2400	11.75	9.31	6.63	3.69	2.69	3.75	3.00	31.20	14.00
14B	F	1	3-15/16	28.60	18000	2200	13.88	10.44	6.63	3.69	3.25	3.75	3.50	51.40	14.00
16B	J	1-1/2	4-1/2	75.00	47250	1500	18.88	13.25	7.25	4.75	4.75	4.63	4.50	120.00	21.00

Max bore with shallow key

* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-7

+ Approximate weight for each flange; average weight for each bushing

PART NUMBERS

	6B	7B	8B	9B	10B	11B	12B
Part No.	• 022501	• 022502	• 022503	• 022504	• 022505	• 022506	• 022507

• Stock flange assemblies

	13B	14B	16B
Part No.	022508	022509	022510

Complete coupling consists of (2) B flanges, (2) sleeve and (2) QD Bushings. QD Bushings must be ordered separately.

FEATURES/BENEFITS PAGE PT1-2	EASY SELECTION PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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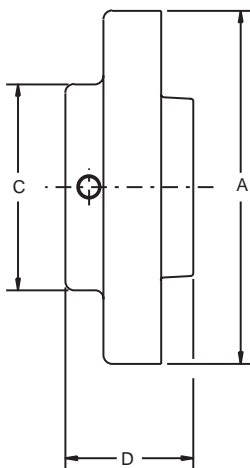


SELECTION/DIMENSIONS

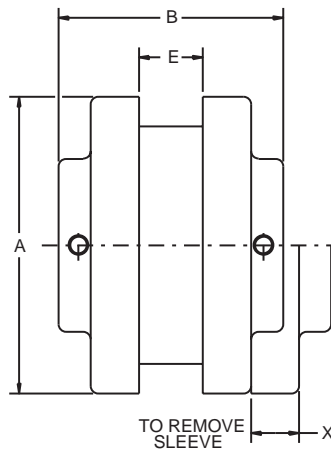


D-FLEX Couplings

TYPE "S" COUPLING DIMENSIONS



TYPE "S" FLANGE



TYPE "S" COUPLING

DIMENSIONS

Coupling Size	Min. Bore	Max. Bore#	HP/100*	Torque* (in.-lbs.)	Max. RPM	A	B	C	D	E	X	Weight (lbs.)
5S	1/2	1-1/4	0.38	240	7600	3.25	2.81	1.88	1.34	0.75	0.97	1.10
6S	1/2	1-1/2						2.50	1.63			1.90
6S	1-9/16	1-3/4	0.71	450	6000	4.00	3.50	2.50	1.31	0.88	1.09	1.80
6S	1-13/16	1-7/8						2.81	1.56			1.80
7S	1/2	1-7/8	1.20	725	5250	4.63	3.94	2.81	1.84	1.00	1.31	2.60
8S	1/2	2-1/8						3.25	2.09			4.40
8S	2-3/16	2-3/8	1.80	1135	4500	5.45	5.00	3.25	1.94	1.13	1.50	3.70
9S	7/8	2-1/2						3.63	2.41			6.50
9S	2-9/16	2-7/8	2.80	1800	3750	6.35	6.00	4.13	2.28	1.44	1.75	6.20
10S	1-1/8	2-7/8						4.38	2.72			10.50
10S	2-15/16	3-3/8	4.60	2875	3600	7.50	7.00	4.75	2.69	1.63	2.00	9.80
11S	1-1/4	2-1/8						7.13	3.44			18.10
11S	2-3/16	2-3/4						7.13	3.44			17.90
11S	2-13/16	3-3/8	7.20	4530	3600	8.63	7.13	5.63	3.44	1.88	2.38	16.60
11S	3-7/16	3-7/8					8.00		3.88			16.40
12S	1-1/2	2-1/8						5.75	4.00			27.80
12S	2-3/16	2-7/8	11.40	7200	2800	10.00	8.25	5.75	4.00	2.31	2.69	27.50
12S	2-15/16	3-15/16										26.60
13S	2" Reb.	4-1/2	18.00	11350	2400	11.75	9.25	6.75	4.38	2.69	3.06	45.20
14S	2" Reb.	5	28.60	18000	2200	13.88	9.88	7.50	4.50	3.25	3.50	69.10
16S	2" Reb.	6	75.00	47250	1500	18.88	14.25	8.00	6.00	4.75	4.25	125.30

Max bore with shallow keyway. For max bore with standard keyway, see page PT1-11

* Ratings based on EPDM & Neoprene. For Hytrel ratings, see page PT1-7



SELECTION/DIMENSIONS



D-FLEX Couplings

TYPE "S" COUPLING FLANGE - PART NUMBERS

Bore (in.)	Coupling Flange Size										
	5S	6S	7S	8S	9S	10S	11S	12S	13S	14S	16S
Reborable	• 004976	004977	004978	004979	004980	004981	004982	004983	004993	004994	004995
Finished Bore Flanges											
1/2	004498										
5/8	• 004500	004511	004534								
3/4	• 004502	• 004513	• 004536	004559							
7/8	• 004504	• 004515	• 004538	• 004561	004586						
15/16	• 004505	004516	004539	004562	004587						
1	• 004506	• 004517	• 004540	• 004563	004588						
1-1/8	• 004508	• 004519	• 004542	• 004565	004590	004619					
1-3/16	* 004509	• 004520	• 004543	• 004566	004591	004620					
1-1/4	† 004510	• 004521	• 004544	• 004567	• 004592	• 004621	004656				
1-5/16		004522	004545	004568	004593	004622	004657				
1-3/8		• 004523	• 004546	• 004569	• 004594	• 004623	• 004658				
1-7/16		* 004524	• 004547	• 004570	• 004595	• 004624	004659				
1-1/2		† 004525	• 004548	• 004571	• 004596	• 004625	004660	004696			
1-5/8		• 004527	* 004550	• 004573	• 004598	• 004627	• 004662	004698			
1-11/16		004528	004551	• 004574	• 004599	• 004628	004663	004699			
1-3/4		• 004529	004552	• 004575	• 004600	• 004629	004664	004700			
1-7/8		• 004531	† 004554	• 004577	• 004602	• 004631	• 004666	• 004702			
1-15/16				• 004578	• 004603	• 004632	004667	004703			
2				* 004579	• 004604	• 004633	004668	004704			
2-1/8				† 004581	• 004606	• 004635	• 004670	• 004706			
2-3/16				004582	004607	• 004636	004671	004707			
2-1/4				004583	004608	004637	004672	004708			
2-3/8				• 004585	* 004610	• 004639	• 004674	• 004710	004996		
2-7/16					004611	• 004640	004675	004711			
2-1/2					† 004612	• 004641	004676	004712			
2-5/8					004614	004643	004678	004714			
2-11/16					004615	004644	004679	004715			
2-3/4					004616	* 004645	004680	004716			
2-7/8					• 004618	† 004647	• 004682	• 004718	004997	004998	
2-15/16						004648	004683	004719			
3						004649	004684	004720			
3-1/8						004651	004686	004722			
3-1/4						004653	004688	004724			
3-5/16						004654	004689	004725			
3-3/8						• 004655	** 004690	• 004726			
3-7/16							004691	004727			
3-1/2							004692	004728			
3-5/8							004693	004730			
3-11/16								004731			
3-3/4							004694	004732			
3-7/8							• 004695	** 004734			
3-15/16								004735			
METRIC											
20mm	• 004860	• 004869									
24mm	• 004862	• 004871									
25mm	• 004863	• 004872	• 004885								
28mm		• 004873	• 004886	• 004901							
30mm		• 004874	• 004887	• 004902	• 004920						
32mm		• 004875	• 004888	• 004903	• 004921						
35mm		• 004876	• 004889	• 004904	• 004922						
38mm			• 004890	• 004905	• 004923						
42mm			• 004892	• 004907	• 004925						
48mm				• 004909	• 004927						

• Stock flange assemblies

† Max bore for reborable flanges.

Complete coupling consists of (2) S flanges and (1) sleeve.

*Max bore with std. square keyway. Larger bores have rectangular keyways & keys supplied.

FEATURES/BENEFITS PAGE PT1-2	EASY SELECTION PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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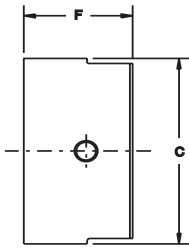


SELECTION/DIMENSIONS

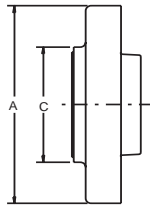


D-FLEX Couplings

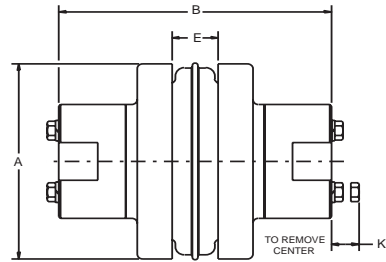
TYPE "SC" COUPLING DIMENSIONS



SHAFT HUB



SPACER FLANGE



COMPLETE SPACER COUPLING

DIMENSIONS (1)

Cplg. Size	BSE	Flange Number	Shaft Hub		Max. Bore (2)		A	(3) B	C	E	F		K	Wt. (4) (lbs.)
			H	HS	H	HS					H	HS		
5SC	3.50	5SC35	5H	-	1-1/8	-	3.25	5.63	2.00	0.75	1.09	-	0.56	4.50
	4.38	6SC35	6H	---	1-3/8	-	4.00	5.88	2.50	0.88	1.22	-	0.75	7.30
	5.00	6SC44	6H	---	1-3/8	-	4.00	6.75	2.50	0.88	1.22	-	0.75	8.10
6SC	4.38	6SC44	6H	---	1-3/8	-	4.00	6.75	2.50	0.88	1.22	-	0.75	8.10
	5.00	6SC50	6H	---	1-3/8	-	4.00	7.88	2.50	0.88	1.22	-	0.75	8.70
	5.00	7SC35	7H	---	1-5/8	-	4.63	6.38	2.81	1.00	1.47	-	0.63	9.90
7SC	4.38	7SC44	7H	---	1-5/8	-	4.63	7.25	2.81	1.00	1.47	-	0.63	10.80
	5.00	7SC50	7H	---	1-5/8	-	4.63	7.88	2.81	1.00	1.47	-	0.63	11.40
	5.00	8SC35	8H	-	1-7/8	-	5.45	6.88	3.25	1.13	1.72	-	0.81	15.20
8SC	3.50	8SC35-10	10H	10HS	2-3/8	1-5/8	5.45	9.13	4.38	1.13	2.34	1.66	0.81	23.20
	4.38	8SC44	8H	-	1-7/8	-	5.45	7.75	3.25	1.13	1.72	1.33	0.81	16.40
	5.00	8SC50	8H	-	1-7/8	-	5.45	8.38	3.25	1.13	1.72	1.33	1.19	17.40
	5.00	8SC50-10	10H	10HS	2-3/8	1-5/8	5.45	9.63	4.38	1.13	2.34	1.66	1.19	27.20
	5.00	9SC35	9H	9HS	2-1/8	1-1/2	6.35	7.50	3.63	1.44	1.97	1.53	1.06	18.60
9SC	4.38	9SC44	9H	9HS	2-1/8	1-1/2	6.35	8.25	3.63	1.44	1.97	1.53	1.06	22.20
	5.00	9SC50	9H	9HS	2-1/8	1-1/2	6.35	8.88	3.63	1.44	1.97	1.53	1.06	23.20
	5.00	9SC50-11	11H	11HS	2-7/8	1-7/8	6.35	10.38	5.25	1.44	2.72	1.91	1.19	40.40
	7.00	9SC70-11	11H	11HS	2-7/8	1-7/8	6.35	12.38	5.25	1.44	2.72	1.91	1.19	48.20
	7.75	9SC78-11	11H	11HS	2-7/8	1-7/8	6.35	13.13	5.25	1.44	2.72	1.91	1.19	51.00
10SC	4.75	10SC48	10H	10HS	2-3/8	1-5/8	7.50	9.38	4.38	1.63	2.34	1.66	1.19	37.60
	5.00	10SC50	10H	10HS	2-3/8	1-5/8	7.50	9.63	4.38	1.63	2.34	1.66	1.19	38.40
	7.00	10SC70-13	13H	13HS	3-3/8	2-1/2	7.50	13.63	6.13	1.63	3.34	2.47	1.88	72.00
	7.75	10SC78-13	13H	13HS	3-3/8	2-1/2	7.50	14.63	6.13	1.63	3.34	2.47	1.88	76.00
11SC	10.00	10SC100-13	13H	13HS	3-3/8	2-1/2	7.50	16.63	6.13	1.63	3.34	2.47	1.88	88.00
	4.75	11SC48	11H	11HS	2-7/8	1-7/8	8.63	10.31	5.25	1.88	2.72	1.91	1.19	54.50
	5.00	11SC50	11H	11HS	2-7/8	1-7/8	8.63	10.38	5.25	1.88	2.72	1.91	1.19	54.70
	7.00	11SC70-14	14H	-	3-7/8	-	8.63	14.38	6.50	1.88	3.84	2.00	2.00	86.10
12SC	7.75	11SC78-14	14H	-	3-7/8	-	8.63	15.38	6.50	1.88	3.84	2.00	2.00	90.30
	10.00	11SC100-14	14H	-	3-7/8	-	8.63	17.63	6.50	1.88	3.84	2.00	2.00	102.70
	7.00	12SC70	12H	12HS	2-7/8	2-1/2	10.00	12.88	5.75	2.31	2.97	2.53	1.50	88.10
	7.00	12SC70-14	14H	-	3-7/8	-	10.00	14.63	6.50	2.31	3.84	2.00	2.00	99.10
	7.75	12SC78	12H	12HS	2-7/8	2-1/2	10.00	13.63	5.75	2.31	2.97	2.53	1.50	91.90
13SC	7.75	12SC78-14	14H	-	3-7/8	-	10.00	14.38	6.50	2.31	3.84	2.00	2.00	103.30
	10.00	12SC100-14	14H	-	3-7/8	-	10.00	17.63	6.50	2.31	3.84	2.00	2.00	115.70
	7.75	13SC78	13H	13HS	3-3/8	2-1/2	11.75	14.38	6.13	2.69	3.34	2.47	1.88	129.60
14SC	7.75	14SC78	14H	-	3-7/8	-	13.88	15.38	6.50	3.25	3.84	-	2.00	179.90

(1) Ratings (HP/100, Torque, RPM) same as Type S. See page PT1-10.

(2) Check shaft hub table on next page for minimum Bore.

(3) B dimension included H hubs. Dimension will change if one or two HS (short hubs) are used.

(4) Complete coupling weight at MAX bore.



SELECTION/DIMENSIONS



D-FLEX Couplings

TYPE "SC" SPACER COUPLINGS - SPACER FLANGE PART NUMBERS

BSE (in.)	Coupling Size						
	5SC	6SC	7SC	8SC	8SC-10	9SC	9SC-11
3.50	• 022000	• 022001	• 022004	• 022007	• 022775	• 022010	
4.38		• 022002	• 022005	• 022008		• 022011	
5.00		• 022003	• 022006	• 022009	• 022776	• 022012	• 022777
7.00							• 022778
7.75							• 022779

BSE (in.)	Coupling Size							
	10SC	10SC-13	11SC	11SC-14	12SC	12SC-14	13SC	14SC
4.75	• 022013		• 022015					
5.00	• 022014		• 022016					
7.00		022780		022783	• 022017	022786		
7.75		022781		022784	• 022018	022787	021997	021998
10.00		022782		022785		022788		
* Stock flanges								

SPACER SHAFT HUB PART NUMBERS

Bore (in.)	Coupling Size									
	5H	6H	7H	8H	9H	10H	11H	12H	13H	14H
Reborable Finished Bore Hubs	• 022220	• 022221	• 022222	• 022223	• 022224	• 022225	• 022226	• 022227		
1/2	022329									
5/8	• 022331	022340	022353							
1 1/16	022332	022341	022354							
3/4	• 022333	• 022342	022355	022368						
7/8	• 022335	• 022344	• 022357	022370	022387					
15/16	022336	022345	022358	022371	022388					
1	• 022337	• 022346	• 022359	• 022372	022389					
1-1/8	• 022339	• 022348	• 022361	• 022374	022391	022409	0022452			
1-1/8 (1)					• 022392(1)	• 022410(1)	022453(1)			
1-3/16		022349	022362	022375	022393	022411	022454			
1-1/4		• 022350	022363	022376	022394	022412	022455			
1-5/16		022351	022364	022377	022395	022413	022456			
1-3/8		022352	• 022365	• 022378	• 022396	022414	022457			
1-7/16				022379	022397	022415	022458			
1-1/2			• 022366	• 022380	• 022398	022416	022459			
1-9/16				022381	022399	022417	022460			
1-5/8			• 022367	• 022382	• 022400	• 022418	022461			
1-5/8 (1)							022462(1)			
1-3/4				• 022384	• 022402	022420	022464			
1-7/8				• 022386	• 022404	• 022428	• 022466	022483		
1-15/16					022405	022429	022467	022484		
2					022406	022430	022468	022485		
2-1/8					• 022408	• 022432	• 022470	022487	022813(1)	
2-3/16						022433	022471	022488		
2-1/4						022434	022472	022489		
2-5/16						022435	022473	022490		
2-3/8						• 022436	• 022474	022491	022810	• 022815
2-3/8(1)								022492(1)	022814(1)	
2-7/16								022493		
2-1/2							022476	022494		
2-5/8							022478	022496		
2-11/16							022479	022497		
2-3/4							022480	022498		
2-7/8							022482	022500	022811	022816
3-3/8									022812	022817
3-7/8										022818

• Stock hub assemblies

(1) HS (Short Hub)

Complete coupling consists of (2) shaft hubs, (2) spacer flanges, and (1) sleeve

FEATURES/BENEFITS PAGE PT1-2	EASY SELECTION PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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FEATURES/BENEFITS



DODGE PARA-FLEX Couplings



Finished Bore Flange Design

- Extra bore capacity
- Accommodates larger shaft diameters
- Allows for smaller coupling selection
- Two setscrews at 65°
- Precision alignment flats
- Ductile iron flange for clearance or interference fits

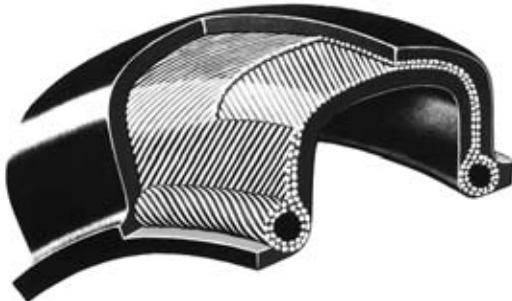


TAPER-LOCK Flange Design

- Reversible flanges for H or F style mounting on sizes PX50-PX120
- Uses standard TAPER-LOCK bushings for wide range of bores

Torque Transmitted Through Composite Element System

- Reinforced with torque-carrying tension cords
- Natural rubber or Neoprene
- Split end reinforcement
- Split element for easy installation
- Dampens torsional vibration



Five-Year Limited Warranty

- Dependable product performance
- 40+ years application experience
- Warranty includes sizes PX40 thru PX200



No Lubrication

- Less maintenance

Visual Inspection

- Saves time

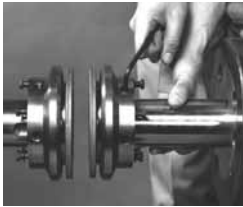


FEWER LOOSE PARTS FOR EASY ASSEMBLY

**DODGE
PARA-FLEX
Standard
Couplings**



Install factory-assembled flanges (finished bore or TAPER-LOCK flanges)



Twist in element



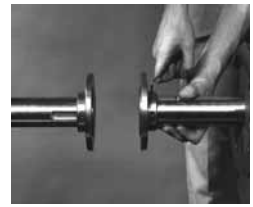
Tighten clamp ring bolts by alternating every other bolt. Repeat sequence until tightened to recommended torque.



**DODGE
PARA-FLEX
Spacer
Couplings**



Install shaft hubs (finished bore or TAPER-LOCK hubs)



Drop in factory-assembled spacer center



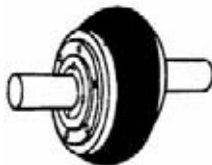
Tighten shaft hub bolts to recommended torque



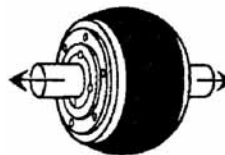
Accommodates Misalignment



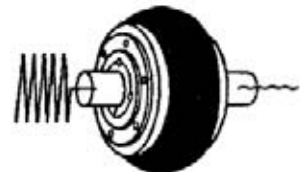
Takes 4° angular misalignment



Takes 1/8" parallel misalignment



Takes end-float of 1/4" to 5/16"



Dampens vibrations



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



PARA-FLEX

SPECIFICATION

PARA-FLEX Couplings employ a molded, non-lubricated elastomeric flexing member loaded in shear. The flexible member is compounded natural or neoprene rubber with textile cord reinforcement throughout and has an extra layer of reinforcement adjacent to the split for added durability. The compound of natural rubber element shall be suitable for operation in ambient temperature from -45°F to +180°F; Neoprene -40°F to +210°F.

The flexible element is attached by clamping between axially separable rings with exposed SAE grade 8 cap screws⁴. The couplings are designed to be capable of accommodating combined misalignments¹ of 4° angular, 1/8" parallel, and 5/16" end float at the full rating of the coupling without restricting the rating or life of the coupling. The flexible element must be replaceable without disturbing the coupled equipment and without the requirement for realignment.

The coupling assemblies have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway and two set screws, one over the key and one at 65°.

Spacer Couplings consist of two hubs and a pre-assembled center assembly. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment and must be replaceable without disturbing the coupled equipment and without realignment.

¹ PX40: 4° angular, 1/16" parallel, 3/16" end float.

² PX110: 4° angular, 1/8" parallel, 1/4" end float.

³ PH & PF: 1° angular, 1/16" parallel, 3/16" end float.

⁴ FBX style couplings utilize class 10.9 metric cap screws.

HOW TO ORDER

Standard couplings consist of:

- (2) Flange Assemblies
- (1) Flexible Element

Spacer Couplings consist of:

- (2) Hubs
- (1) Center Assembly

NOMENCLATURE



	PX	40	FBX
PARA-FLEX _____			
X = Standard			
S = Spacer			
H = High Speed			
F = Flywheel			
Size (PX, PS only) ex.: Approx. 4" O.D. _____			
FBX = Straight Bore, Extra Capacity			
FBS = Straight Bore, Short Series			
TL = TAPER-LOCK®			
BBS = Bored-To-Size, Steel			
TBS = One Taper Bored, one Bored-To-size, Steel			
BBPS = BBS, Piloted for Floating Shaft			
TBPS = TBS, Piloted for Floating Shaft			



PARA-FLEX

DODGE PRESELECTED PARA-FLEX COUPLINGS FOR ELECTRIC MOTORS @ 1800 RPM

MOTOR			PARA-FLEX TAPER-LOCK			PARA-FLEX STRAIGHT BORE			PARA-FLEX SPACER TAPER-LOCK			PARA-FLEX SPACER STRAIGHT BORE		
H.P.	FRAME	SHAFT DIA.	SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR		
			LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0
1	143T	0.875	PX40	PX40	PX40	PX40	PX40	PX40	PS40	PS40	PS40	PS40	PS40	PS40
1.5	145T	0.875	PX40	PX40	PX40	PX40	PX40	PX40	PS40	PS40	PS40	PS40	PS40	PS40
2	145T	0.875	PX40	PX40	PX40	PX40	PX40	PX40	PS40	PS40	PS40	PS40	PS40	PS40
3	182T	1.125	PX50	PX50	PX50	PX40	PX40	PX40	PS50	PS50	PS50	PS40	PS40	PS40
5	184T	1.125	PX50	PX50	PX50	PX40	PX40	PX40	PS50	PS50	PS50	PS40	PS40	PS40
7.5	213T	1.375	PX60	PX60	PX60	PX40	PX50	PX50	PS60	PS60	PS60	PS40	PS40	PS50
10	215T	1.375	PX60	PX60	PX60	PX40	PX50	PX50	PS60	PS60	PS60	PS40	PS50	PS50
15	254T	1.625	PX70	PX70	PX70	PX50	PX50	PX60	PS60	PS60	PS60	PS50	PS50	PS60
20	256T	1.625	PX70	PX70	PX70	PX50	PX60	PX60	PS60	PS60	PS60	PS50	PS60	PS60
25	284T	1.875	PX80	PX80	PX80	PX50	PX60	PX60	PS70	PS70	PS70	PS50	PS60	PS60
30	326T	1.875	PX80	PX80	PX80	PX60	PX60	PX70	PS70	PS70	PS70	PS60	PS60	PS70
	286TS	1.625	PX70	PX70	PX70	PX60	PX60	PX70	PS60	PS60	PS60	PS60	PS60	PS70
40	324T	2.125	PX80	PX80	PX80	PX60	PX70	PX80	PS70	PS70	PS80	PS60	PS70	PS80
	324TS	1.875	PX80	PX80	PX80	PX60	PX70	PX80	PS70	PS70	PS80	PS60	PS70	PS80
50	326T	2.125	PX80	PX80	PX80	PX60	PX80	PX80	PS70	PS80	PS80	PS60	PS80	PS80
	326TS	1.875	PX80	PX80	PX80	PX60	PX80	PX80	PS70	PS80	PS80	PS60	PS80	PS80
60	364T	2.375	PX90	PX90	PX90	PX70	PX80	PX90	PS80	PS80	PS90	PS70	PS80	PS90
	364TS	1.875	PX80	PX80	PX90	PX70	PX80	PX90	PS70	PS80	PS90	PS70	PS80	PS90
75	365T	2.375	PX90	PX90	PX110	PX80	PX90	PX100	PS80	PS90	PS100	PS80	PS90	PS100
	365TS	1.875	PX80	PX90	PX110	PX80	PX90	PX100	PS80	PS90	PS100	PS80	PS90	PS100
100	404T	2.875	PX120	PX120	PX120	PX80	PX100	PX110	PS120	PS120	PS120	PS80	PS100	PS110
	404TS	2.125	PX90	PX110	PX110	PX80	PX100	PX110	PS80	PS100	PS110	PS80	PS100	PS110
	405T	2.875	PX120	PX120	PX120	PX90	PX110	PX120	PS120	PS120	PS120	PS90	PS110	PS120
125	405TS	2.125	PX90	PX110	PX120	PX90	PX110	PX120	PS90	PS110	PS120	PS90	PS110	PS120
	444T	3.375	PX140	PX140	PX140	PX90	PX110	PX120	PS140	PS140	PS140	PS90	PS110	PS120
	444TS	2.375	PX100	PX110	PX120	PX90	PX110	PX120	PS90	PS110	PS120	PS90	PS110	PS120
150	444/5T	3.375	PX140	PX140	PX140	PX100	PX120	PX120	PS140	PS140	PS140	PS100	PS120	PS120
	444/5TS	2.375	PX100	PX120	PX120	PX100	PX120	PX120	PS100	PS120	PS120	PS100	PS120	PS120
200	444T	3.375	PX140	*	*	PX110	PX120	PX140	PS140	PS140	PS140	PS110	PS120	*
	444TS	2.375	PX110	PX120	PX140	PX110	PX120	PX140	PS110	PS120	PS140	PS110	PS120	*

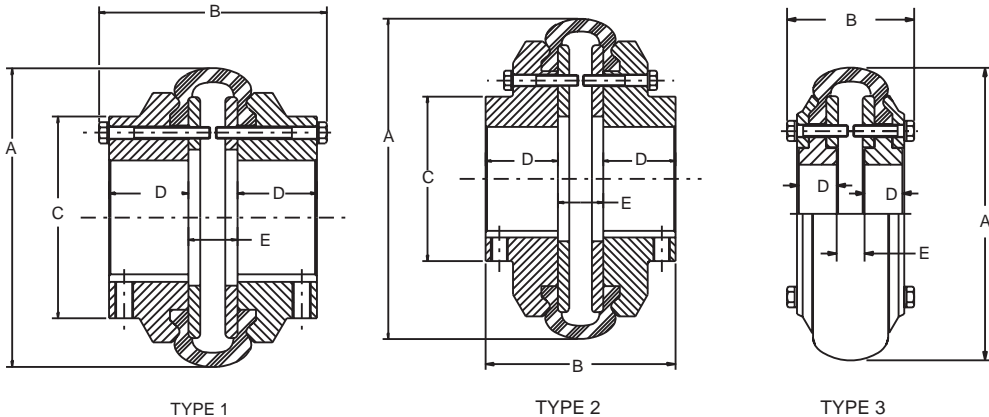
* Consult catalog for other coupling types at these speeds.



SELECTION/DIMENSIONS



Standard, Straight Bore



FBX

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	A	B	C	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX40FBX	1/2	1-7/16	.68	429	4500	1	4.25	3.50	2.88	1.15	.76	4.10	.05
PX50FBX	5/8	1-7/8	1.43	900	4500	1	5.25	4.44	3.14	1.51	.96	7.70	.10
PX60FBX	7/8	2-3/16	2.86	1800	4000	1	6.50	5.59	4.08	1.84	1.28	13.50	.26
PX70FBX	7/8	2-3/8	3.49	2200	3600	1	7.38	6.13	4.63	2.00	1.50	19.90	.54
PX80FBX	1-7/16	2-7/8	5.72	3605	3100	1	8.38	6.69	5.39	2.30	1.50	30.00	1.06
PX90FBX	1-7/16	3-3/8	7.15	4502	2800	1	9.25	7.69	6.09	2.70	1.53	42.40	1.96
PX100FBX	1-7/16	3-3/8 •	8.58	5402	2600	2	10.00	7.13	5.15	2.70	1.71	50.10	2.71
PX110FBX	1-1/2	3-3/4 ■	12.30	7750	2300	2	11.00	7.14	5.56	2.79	1.56	56.00	3.10
PX120FBX	1-1/2	G3-3/4	20.00	12605	2100	2	12.38	7.75	5.84	3.00	1.75	80.20	5.81

• Shallow keyway on bores of 3-1/4", 3-3/8". Key provided.

■ Shallow keyway on bores of 3-5/8", 3-3/4". Key provided.

FBS

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	A	B	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX50FBS	5/8	1-3/8	1.43	900	4500	3	5.25	2.75	.88	.53	4.10	.05
PX60FBS	7/8	1-13/16	2.86	1800	4000	3	6.50	3.36	1.00	.71	8.20	.16
PX70FBS	7/8	2-3/16	3.49	2200	3600	3	7.38	3.57	1.00	.95	11.80	.32
PX80FBS	1-7/16	2-11/16	5.72	3605	3100	3	8.38	3.57	1.25	.95	16.60	.60
PX90FBS	1-7/16	2-7/8	7.15	4502	2800	3	9.25	4.03	1.75	.33	22.60	1.00

(1) Weight of complete coupling at maximum bore.

(2) Inertia of complete coupling at maximum bore.



Standard, Straight Bore - Part Numbers

FBX FLANGE ASSEMBLIES

Bore (in.)	Coupling Size/Part Number								
	PX40FBX	PX50FBX	PX60FBX	PX70FBX	PX80FBX	PX90FBX	PX100FBX	PX110FBX	PX120FBX
Reborable	• 000478	• 000480	• 000481	• 000482	• 000483	• 000484	• 000485	• 000486	• 000487
Finished Bore Flanges									
5/8	• 000822	000575							
3/4	• 000823	000576							
7/8	• 000824	000577	000590	000606					
15/16	000825	000578	003251	003283					
1	• 000826	• 000579	000591	000607					
1-1/16	000827	000580	003252	003284					
1-1/8	• 000828	• 000581	• 000592	• 000608					
1-3/16	000829	000582	003253	003285					
1-1/4	• 000830	• 000583	• 000593	• 000609					
1-5/16	000831	000584	003254	003286					
1-3/8	• 000832	• 000585	• 000594	• 000610					
1-7/16	000833	000586	000595	003287	000619	000632	000649		
1-1/2		• 000587	• 000596	• 000611	• 000620	• 000633	000650	000666	000685
1-9/16			000597	003288	003323	003356	003402	003450	003501
1-5/8		• 000588	• 000598	• 000612	• 000621	• 000634	000651	000667	000686
1-11/16			000599	003289	003324	003357	003403	003451	003502
1-3/4		000589	• 000600	• 000613	• 000622	• 000635	• 000652	• 000668	000687
1-7/8		• 000573	• 000601	• 000614	• 000623	• 000636	• 000653	• 000669	000688
1-15/16			000602	003291	003326	003359	003405	003453	003504
2			000603	000615	000624	000637	000654	000670	000689
2-1/8			• 000604	• 000616	• 000625	• 000638	• 000655	• 000671	000690
2-3/16			000605	003293	003328	003361	003407	003455	003506
2-1/4				• 000617	• 000626	• 000639	• 000656	• 000672	000691
2-3/8				• 000618	• 000627	• 000640	• 000657	• 000673	000692
2-1/2					• 000628	• 000641	000658	000674	000693
2-5/8					000629	000642	000659	000675	000694
2-3/4					000630	000643	000660	000676	000695
2-7/8					• 000631	• 000644	• 000661	• 000677	• 000696
3						000645	000662	000678	000697
3-1/8						000646	000663	000679	000698
3-1/4						000647	000664	000680	000699
3-3/8						• 000648	• 000665	• 000681	• 000700
3-1/2								000682	000701
3-5/8								000683	000702
3-3/4								000684	000703

FBS FLANGE ASSEMBLIES

Bore (in.)	Coupling Size/Part Number				
	PX50FBS	PX60FBS	PX70FBS	PX80FBS	PX90FBS
Reborable	• 009199	• 009214	• 009215	• 009223	• 009230

(1) Standard natural rubber element Part Numbers on Page PT1-22

- Stocked flange assemblies

Complete coupling consists of (2) FBX or FBS flange assemblies, and (1) element.

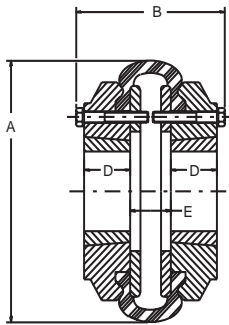
FEATURES/BENEFITS PAGE PT1-14	EASY SELECTION PAGE PT1-5	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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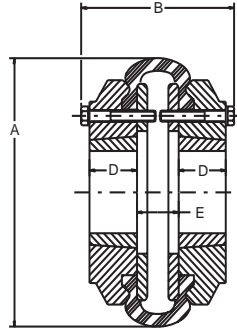
SELECTION/DIMENSIONS



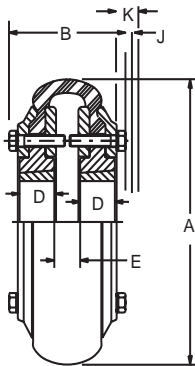
Standard, TAPER-LOCK



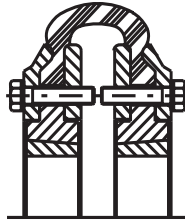
PX40 STANDARD COUPLING
TYPE H TAPER-LOCK



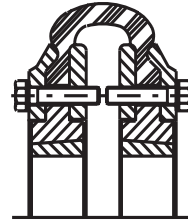
PX40 STANDARD COUPLING
TYPE F TAPER-LOCK



TYPE HF

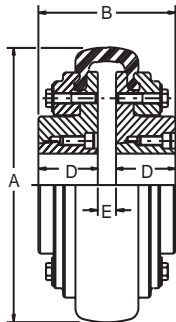


TYPE H

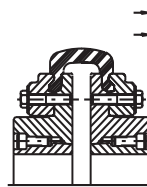


TYPE F

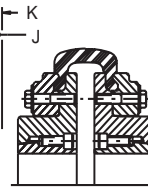
PX-50-120 PARA-FLEX TAPER-LOCK COUPLINGS



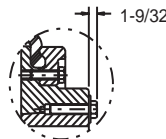
TYPE HF



TYPE H-H



TYPE F-F



PX280 & 320 ONLY

PX-140-320 PARA-FLEX TAPER-LOCK COUPLINGS

<p>FEATURES/BENEFITS PAGE PT1-14</p>	<p>EASY SELECTION PAGE PT1-5</p>	<p>MODIFICATION/ACCESSORIES PAGE PT1-67</p>	<p>ENGINEERING/TECHNICAL PAGE PT1-69</p>
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Standard, TAPER-LOCK

Coupling Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	A	B	D	E	J (1)	K (2)	Weight (Lbs.) (3)	Inertia (Lb-Ft ²) (4)
PX40TL	1	.68	429	4500	4.25	3.00	0.88	0.77	0.63	0.75	4.20	0.05
PX50TL	1-1/8	1.43	900	4500	5.25	2.75	0.88	0.53	0.63	0.75	4.70	0.07
PX60TL	1-7/16	2.86	1800	4000	6.50	3.34	1.00	0.72	0.81	1.06	9.20	0.21
PX70TL	1-11/16	3.49	2200	3600	7.38	3.56	1.00	0.95	0.81	1.06	13.00	0.30
PX80TL	2-1/8	5.72	3605	3100	8.38	3.75	1.25	0.77	0.94	1.38	19.60	0.73
PX90TL	2-11/16	7.15	4502	2800	9.25	4.03	1.75	0.33	1.00	1.63	28.80	1.30
PX100TL	2-11/16	8.58	5402	2600	10.00	4.22	1.75	0.52	1.00	1.63	38.00	2.20
PX110TL	2-11/16	12.30	7750	2300	11.00	4.53	1.75	0.47	1.00	1.63	52.10	3.70
PX120TL	3-1/4	20.00	12605	2100	12.38	5.03	2.00	0.44	1.19	2.06	74.40	6.60
PX140TL	3-15/16	44.00	27590	1840	14.13	7.81	3.50	0.81	1.31	2.69	156.00	18.70
PX160TL	4-7/16	60.00	37800	1560	16.63	9.19	4.00	1.19	1.63	3.38	243.00	33.70
PX200TL	4-15/16	131.00	82500	1300	20.00	10.31	4.50	1.31	1.94	4.06	417.00	101.00
PX240TL	5	240.00	151200	1080	24.13	11.91	5.00	1.91	2.31	4.81	682.00	231.00
PX280TL	7	480.00	302200	910	28.50	15.97	6.00	2.22	1.63	4.38	1148.00	544.00
PX320TL	8	719.00	453000	810	32.50	16.31	6.50	2.06	1.63	4.38	1640.00	1077.00

- Notes:**
- (1) Space required to tighten bushing with shortened hex key.
 - (2) Space required to loosen bushing with shortened hex key.
 - (3) Weight of complete coupling with bushing.
 - (4) Inertia of complete coupling with bushing.



SELECTION/DIMENSIONS



Standard, TAPER-LOCK Part Numbers

TAPER-LOCK FLANGE ASSEMBLIES

Coupling Size	Flange Assembly Part No.		TAPER-LOCK Bushing Size
	Type H	Type F	
PX40	000849	000848	1008
PX50	010601	*	1108
PX60	010602	*	1310
PX70	010603	*	1610
PX80	010604	*	2012
PX90	010605	*	2517
PX100	010606	*	2517
PX110	010607	*	2517
PX120	010608	*	3020
PX140	011134	011154	3535
PX160	011137	011157	4040
PX200	011140	011160	4545
PX240	011144	011164	5050
PX280	011455	011456	7060
PX320	011472	011471	8065

* PX50-PX120 have a reversible flange for type H or F mount

Complete coupling consists of (2) TAPER-LOCK Flange Assemblies, and (1) element.

STANDARD NATURAL RUBBER ELEMENTS †

Coupling Size	Flexible Element Part No.
PX40	011529
PX50	011105
PX60	011106
PX70	011107
PX80	011108
PX90	011109
PX100	011110
PX110	011111
PX120	011112
PX140	011114
PX160	011117
PX200	011120
PX240	011124
PX280	011457
PX320	011463

† See page PT1-67 for optional elements





Standard, TAPER-LOCK Part Numbers

METRIC PARA-FLEX TAPER-LOCK FLANGE ASSEMBLIES

Coupling Size	Flange Assembly Part No.		Taper-Lock Bushing Size
	Type H	Type F	
PXM40	013095	013096	1008
PXM50	013040	013041	1210
PXM60	013043	013042	1610
PXM70	013044	■	1610
PXM80	013045	■	2012
PXM90	013046	■	2517 *
PXM100	013047	■	2517 *
PXM110	013048	■	2517 *
PXM120	013049	■	3020



■ PXM70 - PXM120 have a reversible flange for type H or F mount.

* Hard metric bushing required

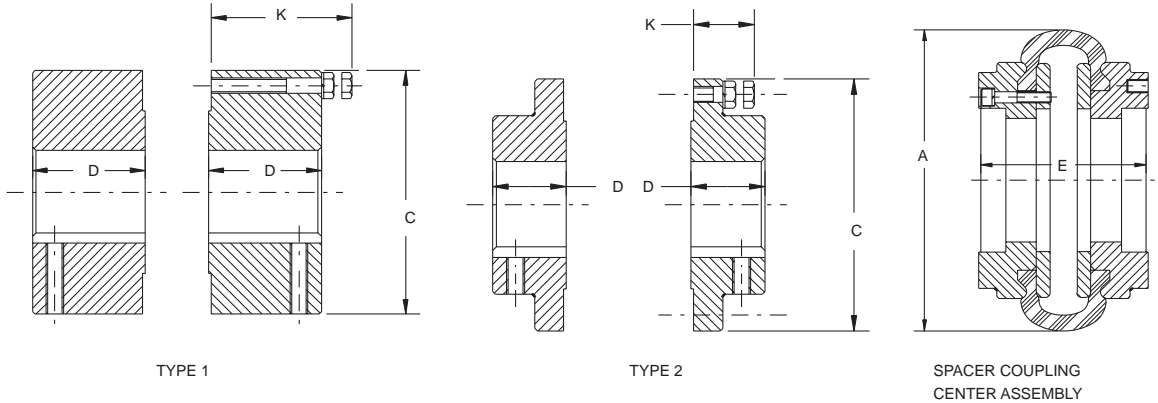
Note: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately.



SELECTION/DIMENSIONS



Spacer, Straight Bore



TYPE 1

TYPE 2

SPACER COUPLING
CENTER ASSEMBLY

SPACER SHAFT HUBS

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	C	D	K (1)	Weight (Lbs.) (2)	Inertia (Lb. Ft. ²)
PS40FBX	1/2	1-7/16	0.68	429	4500	1	2.88	1.13	1.75	1.30	0.01
PS50FBX	5/8	1-7/8	1.43	900	4500	1	3.81	1.41	2.25	3.20	0.05
PS60FBX	2	2-3/16	2.86	1800	4000	1	4.45	1.28	2.13	4.90	0.11
PS60FBS	7/8	1-15/16	2.86	1800	4000	1	4.45	1.22	2.50	4.00	0.08
PS70FBX	2	2-3/8	3.49	2200	3600	1	5.02	1.78	2.63	7.10	0.18
PS70FBS	7/8	1-7/8	3.49	2200	3600	2	5.02	1.22	1.25	2.90	0.06
PS80FBX	2-1/8	3-3/8	5.72	3605	3100	1	6.02	2.53	3.38	12.90	0.53
PS80FBS	1-7/16	2-1/8	5.72	3605	3100	2	6.02	1.50	1.50	5.30	0.16
PS90FBX	2-1/8	3-3/8	7.15	4502	2800	1	6.02	2.53	3.38	12.90	0.53
PS90FBS	1-7/16	2-1/8	7.15	4502	2800	2	6.02	1.50	1.50	5.30	0.16
PS100FBX	2-5/8	3-3/4	8.58	5402	2600	1	6.77	2.53	3.50	16.50	0.85
PS100FBS	1-7/16	2-1/2	8.58	5402	2600	2	6.77	1.88	1.50	7.30	0.26
PS110FBX	2-5/8	3-3/4	12.3	7750	2300	1	6.77	2.53	3.50	16.50	0.85
PS110FBS	1-7/16	2-1/2	12.3	7750	2300	2	6.77	1.88	1.50	7.30	0.26
PS120FBX	2-5/8	3-3/4	20.0	12605	2100	2	8.27	2.81	1.88	14.40	0.50
PS120FBS	1-1/2	2-1/2	20.0	12605	2100	2	8.27	1.88	1.88	14.60	0.51

SPACER CENTER ASSEMBLIES

Coupling Size	A	E		Weight (Lbs.) (3)	Weight Adder (4)	Inertia (Lb.Ft. ²) (5)	Inertia Adder (6)
		Min.	Max.				
PS40	4.25	2.75	5.75	4.00	0.50	0.04	0.01
PS50	5.25	2.88	7.33	6.90	1.28	0.10	0.02
PS60	6.50	3.38	7.33	9.50	1.70	0.28	0.03
PS70	7.38	3.50	7.50	12.20	2.10	0.50	0.07
PS80	8.38	3.50	10.00	16.90	2.90	0.89	0.22
PS90	9.25	3.50	10.00	21.10	2.90	1.40	0.22
PS100	10.00	3.50	10.00	23.60	3.87	2.10	0.28
PS110	11.00	3.50	10.00	41.00	3.87	3.30	0.28
PS120	12.38	4.50	10.00	56.40	5.86	7.30	0.76

(1) Screw clearance required to remove center assembly

(2) Hub weight at maximum bore

(3) Center assembly weight at minimum length

(4) Weight adder per inch length

(5) Center assembly inertia at minimum length

(6) Inertia adder per inch length



Spacer, Straight Bore Shaft Hub - Part Numbers (1)

Bore (in.)	Coupling Size/Part Number													
	PS40		PS50		PS60		PS70		PS80/90		PS100/110		PS120	
	FBX	FBX	FBS	FBX	FBS	FBX	FBS	FBX	FBS	FBX	FBS	FBX	FBS	FBX
Reborable	• 000479	• 000490	• 000492	• 000491	• 000494	000493	• 000496	• 000495	• 000498	• 000497	• 000500	• 000499		
5/8	• 000836	000704												
3/4	• 000837	000705												
7/8	• 000838	000706	000719		000739									
15/16	000839	000707												
1	• 000840	• 000708	000720		000740									
1-1/16	000841	000709												
1-1/8	• 000842	• 000710	• 000721		• 000741									
1-3/16	000843	000711												
1-1/4	• 000844	• 000712	• 000722		• 000742									
1-5/16	000845	000713												
1-3/8	• 000846	• 000714	• 000723		• 000743									
1-7/16	000847	000715	000724				000759		000776					
1-1/2		• 000716	• 000725		• 000744		• 000760		000777			000796		
1-9/16			000726											
1-5/8		• 000717	• 000727		• 000745		• 000761		000778			000797		
1-11/16			000728											
1-3/4		000718	• 000729		• 000746		• 000762		• 000779			• 000798		
1-7/8		• 000574	• 000730		• 000747		• 000763		• 000780			• 000799		
1-15/16			000731											
2				000732		000735	000764		000781			000800		
2-1/8				• 000733		• 000736	000765	• 000748	• 000782			• 000801		
2-3/16				000734										
2-1/4						• 000737		• 000749	• 000783			• 000802		
2-3/8						• 000738		• 000750	• 000784			• 000803		
2-1/2								• 000751	• 000785			• 000804		
2-5/8								000752			000766		000786	
2-3/4								000753			000767		000787	
2-7/8								• 000754			• 000768		• 000788	
3								000755			000769		000789	
3-1/8								000756			000770		000790	
3-1/4								000757			000771		000791	
3-3/8								• 000758			• 000772		• 000792	
3-1/2											000773		000793	
3-5/8											000774		000794	
3-3/4											000775		000795	

• Stocked shaft hubs

(1) See page PT1-27 for spacer center assembly part numbers.

Complete coupling consists of:

(2) Shaft Hubs, TAPER-LOCK or Straight Bore

(1) Spacer Center Assembly

NOTE: Standard Bore Tolerances: Straight bore couplings from PX40 - PX120 are furnished with clearance fit.

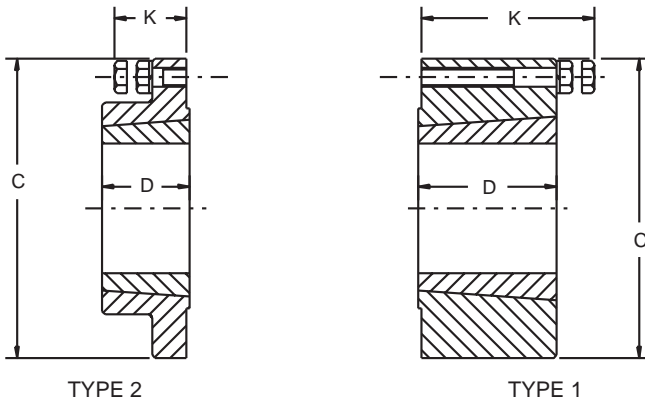
PX140 - PX320 are furnished with interference fit.



SELECTION/DIMENSIONS

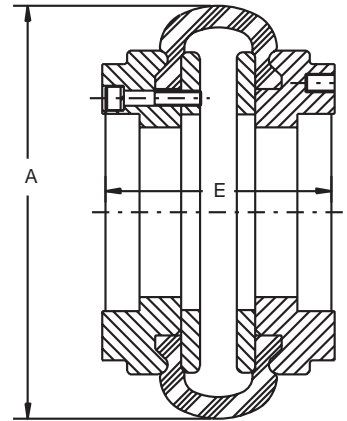


Spacer, TAPER-LOCK



TYPE 2

TYPE 1

SPACER COUPLING
CENTER ASSEMBLY

TAPER-LOCK SPACER SHAFT HUBS

Coupling Size	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	Dwg. Type	C	D	K(1)	Weight (Lbs) (2)	Inertia (Lb.Ft. ²)
PS40TL	1	.68	429	4500	1	2.88	0.88	1.75	1.10	0.01
PS50TL	1-1/4	1.43	900	4500	2	3.81	1.00	1.00	1.80	0.02
PS60TL	1-11/16	2.86	1800	4000	2	4.44	1.00	1.00	2.40	0.03
PS70TL	2-1/8	3.49	2200	3600	2	5.00	1.25	1.00	4.00	0.07
PS80TL	2-11/16	5.72	3605	3100	2	6.00	1.75	1.25	7.70	0.22
PS90TL	2-11/16	7.15	4502	2800	2	6.00	1.75	1.25	7.70	0.22
PS100TL	2-11/16	8.58	5402	2600	2	6.75	1.75	1.25	9.00	0.28
PS110TL	2-11/16	12.30	7750	2300	2	6.75	1.75	1.25	9.00	0.28
PS120TL	3-1/4	20.00	12605	2100	2	8.25	2.00	1.50	16.60	0.76
PS140TL	3-15/16	44.00	27590	1840	1	7.69	3.50	4.50	37.00	2.20
PS160TL	4-7/16	60.00	37800	1560	1	8.63	4.00	5.00	55.00	3.90
PS200TL	4-15/16	131.00	82500	1300	1	10.00	4.50	5.50	87.40	8.00

SPACER CENTER ASSEMBLIES

Coupling Size	A	E		Weight (Lbs.) (3)	Weight Adder (4)	Inertia (Lb. Ft.2) (5)	Inertia Adder (6)
		Min.	Max.				
PS40	4.25	2.75	5.75	4.00	.50	0.04	0.01
PS50	5.25	2.88	7.33	6.90	1.28	0.10	0.02
PS60	6.50	3.38	7.33	9.50	1.70	0.28	0.03
PS70	7.38	3.50	7.50	12.20	2.10	0.50	0.07
PS80	8.38	3.50	10.00	16.90	2.90	1.89	0.22
PS90	9.25	3.50	10.00	21.10	2.90	1.40	0.22
PS100	10.00	3.50	10.00	23.60	3.87	2.10	0.28
PS110	11.00	3.50	10.00	41.00	3.87	3.30	0.28
PS120	12.38	4.50	10.00	56.40	5.86	7.30	0.76
PS140	14.13	6.44	13.00	115.00	4.49	18.70	0.80
PS160	16.63	8.06	11.44	216.00	5.58	33.70	0.90
PS200	20.00	9.94	12.88	290.00	7.65	101.00	1.60

- (1) Screw clearance required to remove center assembly
 (2) Hub weight includes bushing at max. bore
 (3) Center assembly weight at minimum length

- (4) Weight adder per inch length
 (5) Center assembly inertia at minimum length
 (6) Inertia added per inch length



Spacer, TAPER-LOCK Shaft - Hubs Part Numbers

Coupling Size	Shaft Hub Part No.	TAPER-LOCK Bushing Size
PS40	000850	1008
PS50	011620	1210
PS60	011621	1610
PS70	011622	2010
PS80	011623	2517
PS90	011623	2517
PS100	011624	2517
PS110	011624	2517
PS120	011625	3020
PS140	011626	3535
PS160	011627	4040
PS200	011628	4545



For complete listing of part numbers for all BSE lengths, see page PT1-28 and PT1-29

Complete coupling consists of: (2) shaft hubs, TAPER-LOCK straight bore, and (1) Spacer center assy

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately



SELECTION/DIMENSIONS



PARA-FLEX

SPACER CENTER ASSEMBLY PART NUMBERS

B.S.E.	PS40	PS50	PS60	PS70	PS80	PS90	PS100	PS110	PS120	PS140	PS160	PS200
2-7/8		011121										
3		011125										
3-1/8		011132										
3-1/4		011145										
3-3/8		011152	010723									
3-1/2	• 000854	011565	011567	N 011569	N 011571	N 011564	N 011579	N 011580				
3-5/8		011720	011726	011740	011775							
3-11/16								011890				
3-3/4		011721	011727	011741	011776	011589		011891				
3-7/8		011722	011728	011742	011777			011892				
4		011723	011729	• 011743	• 011778	• 011555		• 011893				
4-1/8		011724	011730	011744	011779	011810	011850	011894				
4-1/4		011725	011731	011745	011780	011811	011851	011895				
4-3/8		011582	011732	011746	011781	011812	011852	011896				
4-1/2			011583	011584		011586	011587	011897	011581			
4-5/8			011733	011747	011782	011813	011853	011898				
4-3/4			011734	011748	011783	011814	011854	011899	011935			
4-7/8				011749	011784	011815	011855	011900	011936			
5	• 000857	• 012767	• 012765	• 011750	• 011785	• 011816	• 011700	• 011705	• 011937			
5-1/8				011751	011786	011817	011856	011901	011938			
5-1/4				011752	011787	011818	011857	011902	011939			
5-5/16							011847					
5-3/8				011753	011788	011819	011858	011903	011940			
5-1/2				011754	011789	011820	011859	011904	011941			
5-5/8				011755	011790	011821	011860	011905	011942			
5-3/4	000858	000859	000861	011756	011791	011822	011861	011906	011943			
5-7/8				011757	011792	011823	011862	011907	011944			
6				• 011758	• 011793	• 011824	• 011701	• 011706	• 011710			
6-1/16												
6-1/8				011602	011794	011825	011863	011908	011945			
6-1/4				011759	011795	011826	011864	011909	011946			
6-5/16												
6-3/8				011760	011796	011827	011865	011910	011947			
6-7/16										010539		
6-1/2				011761	011797	011828	011866	011911	011948	010547		
6-5/8				011762	011798	011829	011867	011912	011949	010548		
6-3/4				011763	011799	011830	011868	011913	011950	010549		
6-7/8				011764	011604	011606	011869	011914	011951	010550		
7			• 012766	• 011765	• 011800	• 011831	• 011702	• 011707	• 011711	• 010551		
7-1/8				011766	011801	011832	011870	011915	011952	010552		
7-1/4				011767	011802	011833	011871	011916	011953	010553		
7-1/3		000860	000862		012289				012291	012290		
7-3/8				011768	011803	011834	011872	011917	011954	010554		
7-1/2				• 011603	• 011804	011835	011873	011918	011955	010555		
7-5/8					011805	011836	011874	011919	011956	010556		
7-3/4					011806	011837	011875	011920	011957	010975		
7-7/8					011807	011838	011876	011921	011958	010976		

• Stock Center Assemblies

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PARA-FLEX

SPACER CENTER ASSEMBLY PART NUMBERS

B.S.E.	PS40	PS50	PS60	PS70	PS80	PS90	PS100	PS110	PS120	PS140	PS160	PS200
Semi Fin	000851	010997	010998	011012	011000	011001	011002	011005	011006	011113	011115	011119
8					011605	011839	011703	011708	011712	010977		
8-1/16											010595	
8-1/8					009420	011840	011877	011922	011959	010978	010567	
8-3/16					009419							
8-1/4					009421	011841	011878	011923	011960	010979	010568	
8-3/8					009422	011842	011879	011924	011961	010980	010569	
8-1/2					009423	011607	011880	011925	011962	010981	010570	
8-5/8					009424			011926	011963	010982	010571	
8-3/4					009425			011927	011964	010983	010572	
8-7/8					009426			011928	011965	010984	010573	
9					009427			011709	011713	010985	010574	
9-1/8					009428			011929	011966	010986	010575	
9-3/16								011930	011967			
9-1/4					009429				012023	010987	010576	
9-3/8					009430				012024	010988	010577	
9-1/2					009431				012025	010989	010578	
9-5/8					009432				012026	010990	010579	
9-3/4					009433				012027	010991	• 010580	
9-7/8					009434				012028	010992	• 010581	
9-15/16												010699
10					• 009435	• 000863	000864	• 000865	• 012029	• 010993	• 010582	• 010675
10-1/8										010994	010583	010676
10-1/4										010995	010584	010677
10-5/16										010996		
10-3/8										009436	010585	010678
10-1/2										009437	010586	010679
10-5/8										009438	010587	010680
10-3/4										009439	010588	010681
10-7/8										009440	010589	010682
11										009441	010590	010683
11-1/8										009442	010591	010684
11-1/4										009443	010592	010685
11-3/8										009444	010593	010686
11-7/16											010594	
11-1/2										009445		010687
11-5/8										009446		010688
11-3/4										009447		010689
11-7/8										009448		010690
12										009449		010691
12-1/8										009450		010692
12-1/4										009451		010693
12-3/8										009452		010694
12-1/2										009453		010695
12-5/8										009454		010696
12-3/4										009455		010697
12-7/8										009456		010698
13										009457		

• Stock Center Assemblies

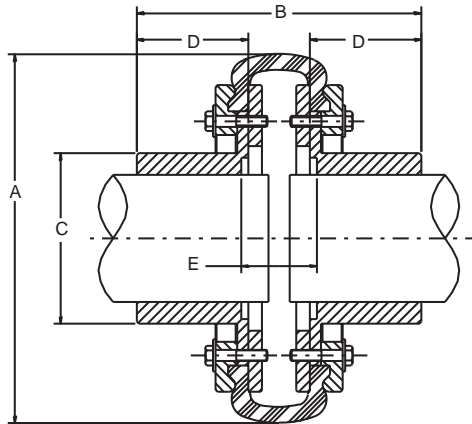
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SELECTION/DIMENSIONS



Bored to Size, Type BBS



PX60 THRU PX320 TYPE BBS COUPLINGS

Coupling Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	A	B	C	D	E	Weight (1) (Lbs.)	Inertia (2) (Lb-Ft ²)
PX60BBS	none	1-1/2	2.86	1,800	4000	6.50	4.28	2.38	1.50	1.28	8.8	.21
PX70BBS	none	2-1/8	3.49	2,200	3600	7.38	5.00	2.94	1.75	1.50	12.8	.32
PX80BBS	none	2-9/16	5.72	3,605	3100	8.38	5.50	3.69	2.00	1.50	18.4	.79
PX90BBS	none	2-3/4	7.15	4,502	2800	9.25	6.03	4.13	2.25	1.53	25.6	1.4
PX100BBS	none	3-1/4	8.58	5,402	2600	10.00	6.97	4.94	2.63	1.72	36.4	2.5
PX110BBS	none	3-15/16	12.30	7,750	2300	11.00	7.56	5.44	3.00	1.56	47.3	4.2
PX120BBS	none	4	20.00	12,605	2100	12.38	8.25	5.81	3.25	1.75	68.4	7.0
PX140BBS	2-1/4	4-1/2	44.00	27,590	1840	14.13	9.81	7.00	3.88	2.44	127.2	16.4
PX160BBS	2-1/2	6	60.00	37,800	1560	16.63	12.94	8.50	5.13	3.06	210.8	39.6
PX200BBS	2-7/8	6-3/4	131.00	82,500	1300	20.00	15.56	9.38	6.13	3.75	333.5	76.9
PX240BBS	4	7-1/2	240.00	151,200	1080	24.13	14.16	10.00	5.13	4.34	481.0	188.1
PX280BBS	4-7/16	9	480.00	302,200	910	28.50	18.47	12.00	7.13	4.66	802.0	440.8
PX320BBS	5-1/2	11	719.00	453,000	810	32.50	20.75	14.00	8.13	4.94	1074.0	709.6

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore



Bored to Size, Type BBS



PX60BBS - PX320BBS PART NUMBERS

Coupling Size	BS Flange Assemblies Rough Bore (2 Req'd)	Standard Element (1 Req'd)
PX60BBS	010300	011106
PX70BBS	010301	011107
PX80BBS	010302	011108
PX90BBS	010303	011109
PX100BBS	010304	011110
PX110BBS	010305	011111
PX120BBS	010306	011112
PX140BBS	010530	011114
PX160BBS	010531	011117
PX200BBS	010532	011120
PX240BBS	010533	011124
PX280BBS	010528	011457
PX320BBS	010529	011463

When bored to size, the PX60 through PX120 BBS sizes are furnished with clearance fit, standard keyway and two-set screws. PX140 and larger sizes are furnished as interference fit with standard keyway and no setscrew.

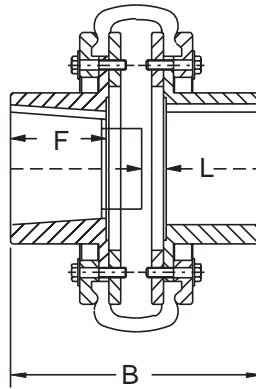
Complete coupling consists of: (2) BS Flange Assemblies and (1) Standard Element.



SELECTION/DIMENSIONS



Mill Motor, Type TBS*



Size	For Mill Motor Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM	B	F	L	Weight(1) (Lbs.)	Inertia(2) (Lb-Ft ²)	
PX60TBS	602,802*	none	1-1/2	2.86	1,800	4000	5.78	3.00	0.34	10.1	0.21	
PX70TBS	603	none	2-1/8	3.49	2,200	3600	6.75	3.50	0.50	16.1	0.32	
	802B,802C						6.25	3.00	0.56			
PX80TBS	603,803	none	2-9/16	5.72	3,605	3100	7.00	3.50	0.50	23.2	0.79	
	604804						7.00	3.50	0.50			
PX90TBS	804	none	2-3/4	7.15	4,502	2800	7.28	3.50	0.53	29.9	1.4	
PX100TBS	804	none	3-1/4	8.58	5,402	2600	7.84	3.50	0.72	44.4	2.5	
PX110TBS	606,806	none	3-15/16	12.30	7,750	2300	8.56	4.00	0.59	62.3	4.2	
	608						9.06	4.50	0.16			
PX120TBS	608,806	none	4	20.00	12,605	2100	9.00	4.00	0.63	81.4	7.0	
	608,808						9.50	4.50	0.50			
PX140TBS	808	2-1/4	4-1/2	44.00	27,590	1840	10.63	4.69	1.19	136.2	16.4	
							610-810	10.63	4.69			1.06
							612	11.06	5.13			0.94
PX160TBS	810	2-1/2	6	60.00	37,800	1560	12.50	4.69	1.69	227.8	39.6	
							612-812	12.94	5.13			1.56
							614	12.94	5.13			1.44
PX200TBS	812	2-7/8	6-3/4	131.00	82,500	1300	14.63	5.19	2.19	344.5	76.9	
							614-814	14.63	5.19			2.06
							616-816	15.13	5.69			1.94
							618-818	15.56	6.13			2.38
PX240TBS	818	4	7-1/2	240.00	151,200	1080	15.22	6.19	2.97	519	188.1	
							620	15.91	6.88			2.53
PX280TBS	622	5-1/4	9	480.00	302,200	910	18.78	7.44	2.22	836	440.8	
							624	20.78	9.44			2.22

◆ Refer to page PT1-30 for additional envelope information

* 1-1/4" per foot taper on diameter

FEATURES/BENEFITS
PAGE PT1-14

EASY SELECTION
PAGE PT1-5

MODIFICATION/ACCESSORIES
PAGE PT1-67

ENGINEERING/TECHNICAL
PAGE PT1-69



Mill Motor, Type TBS*

PX60 - PX280 TBS PART NUMBERS

Coupling Size	For Mill Motor Size	TS Flange Assy (1) Req'd +	Std. Element (1) Req'd	BS Flange Assy (1) Req'd
PX60TBS	602,802*	010471	011106	See Page PT1-30
PX70TBS	603	010472	011107	
	802B,802C	010473		
PX80TBS	603,803	010474	011108	
	604,804			
PX90TBS	804	010475	011109	
PX100TBS	804	010476	011110	
PX110TBS	606,806	010477	011111	
	608	010478		
PX120TBS	606,806	010479	011112	
	608,808	010480		
PX140TBS	608,808	008980	011114	
	610,810	008981		
	612,812	008982		
PX160TBS	610,810	008983	011117	
	612,812	008984		
	614	008985		
PX200TBS	612,812	008986	011120	
	614,814	008987		
	616,816	008988		
	618,818	008989		
PX240TBS	818	008990	011124	
	620	008991		
PX280TBS	622	008992	011457	
	624	008993		

Coupling Size	TS Flange Assy Rough Bore
PX60TBS	010510
PX70TBS	010511
PX80TBS	010512
PX90TBS	010513
PX100TBS	010514
PX110TBS	010515
PX120TBS	010516
PX140TBS	010524
PX160TBS	010531
PX200TBS	010532
PX240TBS	010525
PX280TBS	010526

Complete coupling consists of: (1) TS Flange Assembly, (1) BS Flange Assembly, and (1) Standard Element.

* Key furnished for shallow keyways.

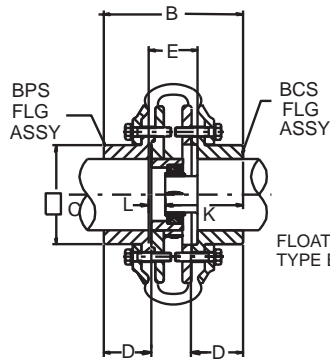
+ Part numbers are finished bore flanges to fit mill motor sizes listed.



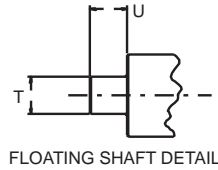
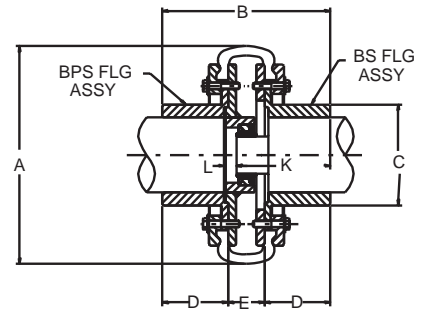
SELECTION/DIMENSIONS



Floating Shaft, Type BBPS



PX60 -120 BBPS

FLOATING SHAFT
TYPE BBPS

PX140-320 BBPS

Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max RPM	A	B	C	D	E	K	L	T	U	Weight (Lbs)	Inertia (Lb-Ft ²)
PX60BBPS	none	1-1/2	2.86	1,800	4000	6.50	4.28	2.38	1.50	1.78	2.45	0.58	.624/.6225	1.28	9.8	0.21
PX70BBPS	none	2-1/8	3.49	2,200	3600	7.38	5.00	2.94	1.75	2.06	3.05	0.48	.999/.9975	1.58	14.6	0.32
PX80BBPS	none	2-9/16	5.72	3,605	3100	8.38	5.50	3.69	2.00	2.00	3.30	0.45	.999/.9975	1.58	26.9	0.79
PX90BBPS	none	2-3/4	7.15	4,502	2800	9.25	6.03	4.13	2.25	2.09	3.67	0.39	1.249/1.2475	1.70	29.0	1.4
PX100BBPS	none	3-1/4	5.85	5,402	2600	10.00	6.97	4.94	2.63	2.16	4.13	0.44	1.249/1.2475	1.72	40.1	2.5
PX110BBPS	none	3-15/16	12.30	7,750	2300	11.00	7.56	5.44	3.00	2.06	4.44	0.38	1.249/1.2475	1.69	51.0	4.2
PX120BBPS	none	4	20	12,605	2100	12.38	8.25	5.81	3.25	2.44	4.89	0.45	1.499/1.497	1.98	75.7	7.0
PX140BBPS	2-1/4	4-1/2	44	27,590	1840	14.13	9.19	7.00	3.88	2.44	5.69	0.44	1.499/1.497	2.00	140.2	16.4
PX160BBPS	2-1/2	6	60	37,800	1560	16.63	12.94	8.50	5.13	3.06	7.25	0.75	1.499/1.497	2.94	230.8	39.6
PX200BBPS	2-7/8	6-3/4	131	82,500	1300	20.00	15.56	9.38	6.13	3.69	8.78	0.84	1.999/1.997	2.84	364.5	76.9
PX240BBPS	4	7-1/2	240	151,200	1080	24.13	14.16	10.00	5.13	4.28	8.06	1.16	1.999/1.997	3.12	529.0	188.1
PX280BBPS	4-7/16	9	480	302,200	910	28.50	18.47	12.00	7.13	4.59	10.22	1.31	1.999/1.997	3.28	877.0	440.8
PX320BBPS	5-1/2	11	719	453,000	810	32.50	20.75	14.00	8.13	4.88	11.38	1.44	1.999/1.997	3.44	1181.0	709.6

PX60BBPS - PX320BBPS PART NUMBERS

Coupling Size	BCS Flange Assy (1) Req'd	BPS Flange Assy (1) Req'd	Std Element (1) Req'd
PX60BBPS	010658	010657	011106
PX70BBPS	010660	010659	011107
PX80BBPS	010189	010190	011108
PX90BBPS	010191	010192	011109
PX100BBPS	010193	010194	011110
PX110BBPS	010599	010598	011111
PX120BBPS	010195	010196	011112
Coupling Size	BS Flange Assy (1) Req'd	BPS Flange Assy (1) Req'd	Std Element (1) Req'd
PX140BBPS	010530	011714	011114
PX160BBPS	010531	011715	011117
PX200BBPS	010532	011716	011120
PX240BBPS	010533	011717	011124
PX280BBPS	010528	011718	011457
PX320BBPS	010529	011719	011463

Complete coupling consists of: (1) BCS or BS Flange Assembly (depending on size of coupling), (1) BPS Flange Assembly, and (1) Standard Element.

BCS Flange Assembly consists of:

1. External Clamp Ring
2. Internal Clamp Ring
3. BCS Flange

BPS Flange Assembly consists of:

1. External Clamp Ring
2. Piloted Internal Clamp Ring
 - a. Includes floating shaft bearing assembly
3. BS Flange

**PARA-FLEX High Speed and Flywheel Couplings****HIGH SPEED TYPE**

- Compensates for misalignment
- Cushions thrust loads
- Absorbs vibration and shock
- Prolongs bearing life
- Available in TAPER-LOCK and bored to size configurations

**FLYWHEEL TYPE**

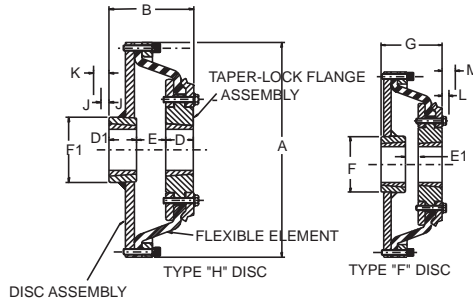
- Specifically designed to connect the flexible element to standard SAE flywheel bolt patterns
- Available in TAPER-LOCK and bored to size configurations



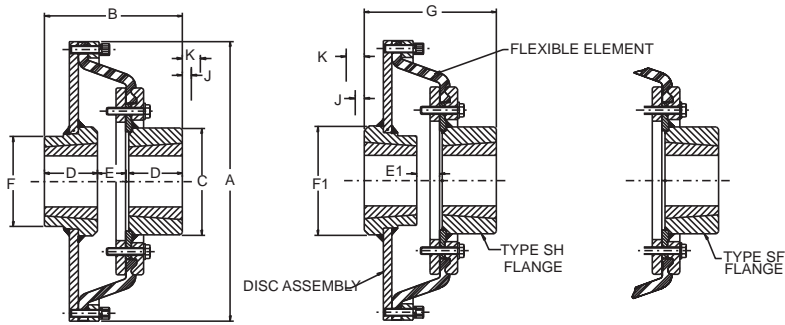
SELECTION/DIMENSIONS



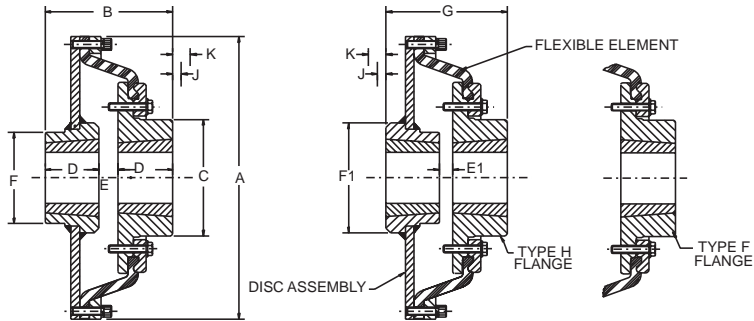
High Speed, TAPER-LOCK



PH87 THRU PH131



PH172 thru PH252 STEEL FLANGE ASSEMBLY



PH172 & PH192 IRON FLANGE ASSEMBLY

<p>FEATURES/BENEFITS PAGE PT1-2</p>	<p>EASY SELECTION PAGE PT1-17</p>	<p>MODIFICATION/ACCESSORIES PAGE PT1-67</p>	<p>ENGINEERING/TECHNICAL PAGE PT1-69</p>
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High Speed, TAPER-LOCK

Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM		Weight (Lbs)		Inertia (Lb-Ft ²)	
						Gray Iron Flange	Steel Flange	Iron Flg	Steel Flg	Iron Flg	Steel Flg
PH87	+	1/2	+	3.0	1890	6000	.....	19.5	.....	1.32	.....
PH96	*	1/2	*	4.5	2835	5230	.....	27.2	.....	2.44	.....
PH116	2517	1/2	2-11/16	7.1	4470	4050	.....	40.8	.....	4.92	.....
PH131	2517	1/2	2-11/16	9.5	5985	3750	.....	59.7	.....	8.87	.....
PH172	3535	1-3/16	3-15/16	23.0	14490	1860	2800	138.2	128.5	31.74	29.98
PH192	4040	1-7/16	4-7/16	47.0	29610	1620	2430	219.6	219.6	51.09	50.37
PH213	4545	1-15/16	4-15/16	90.0	56700	.....	2130	.....	291.2	102.3	90.22
PH252	5050	2-7/16	5-5/16	135.0	85050	.....	1945	.....	389.9	144.1	133.7

Coupling Size	A	B		C		D	D ₁	E	
		Iron Flg	Steel Flg	Iron Flg	Steel Flg			Iron Flg	Steel Flg
PH87	9.44	3.53	.....	.....	.....	1.00	1.75	0.81	.....
PH96	10.31	4.30	.....	.....	.....	1.25	1.75	1.33	.....
PH116	12.31	4.44	.....	.....	.....	1.75	1.75	1.14	.....
PH131	13.81	5.45	.....	.....	.....	1.75	1.75	1.95	.....
PH172	18.31	8.06	8.97	7.50	7.00	3.50	.....	1.06	1.88
PH192	20.31	9.31	10.25	8.63	8.50	4.00	.....	1.31	2.25
PH213	22.50	.....	11.31	.....	8.75	4.50	.....	.....	2.31
PH252	26.50	.....	14.31	.....	9.50	5.00	.....	.....	4.31

Coupling Size	E ₁		F	F ₁	G		J*	K†	L*	M†
	Iron Flg	Steel Flg			Iron Flg	Steel Flg				
PH87	0.50	.....	4.12	4.19	3.28	.....	1.00	1.63	0.81	1.06
PH96	0.45	.....	4.12	4.19	3.42	.....	1.00	1.63	0.94	1.38
PH116	0.33	.....	4.12	4.19	3.63	.....	1.00	1.63	1.00	1.63
PH131	0.77	.....	4.12	4.19	4.27	.....	1.00	1.63	1.00	1.63
PH172	0.63	1.44	6.25	7.12	7.62	8.53	1.31	2.69	.....	.....
PH192	0.38	1.31	7.75	8.62	8.38	9.31	1.63	3.38	.....	.....
PH213	.....	1.44	8.75	9.75	.....	10.44	1.94	4.06	.....	.....
PH252	.....	2.94	9.50	10.88	.....	12.94	2.31	4.81	.....	.....

★ Space required to tighten bushing with shortened hex key or to loosen screws to permit removal of the hub by a puller
 † Space required to loosen bushing with the shortened hex key using screws as hack screws - no puller required.

PH87 - PH252 PART NUMBERS

Coupling Size	TAPER-LOCK Flange (1) Req'd						Disc Assy (1) Req'd	HS Element (1) Req'd	Bushing Size
	Std Flange	Flange Size	Iron Flange		Steel Flange				
			Type H	Type F	Type SH	Type SF			
PH87	010603	PX70	.....	.....	.....	.....	011307	011227	+
PH96	010604	PX80	.....	.....	.....	.....	011308	011228	*
PH116	010606	PX100	.....	.....	.....	.....	011310	011230	2517
PH131	010607	PX110	.....	.....	.....	.....	011311	011231	2517
PH172	.....	PX140	011134	011154	010290	010294	011314	011234	3535
PH192	.....	PX160	011137	011157	010291	010295	011316	011236	4040
PH213	.....	PX190	.....	.....	010292	010296	011319	011239	4545
PH252	.....	PX220	.....	.....	010293	010297	011322	011242	5050

+ Flange assembly uses a 1610 bushing with 1-11/16 max. bore
 Disc assembly uses a 2517 bushing with 2-11/16 max. bore
 * Flange assembly uses a 2012 bushing with 2-1/8 max. bore
 Disc assembly uses a 2517 bushing with 2-11/16 max. bore

Complete coupling consists of: (1) TAPER-LOCK Flange Assembly, (1) TAPER-LOCK Disc Assembly, & (1) High speed Element. TAPER-LOCK bushings must be ordered separately.

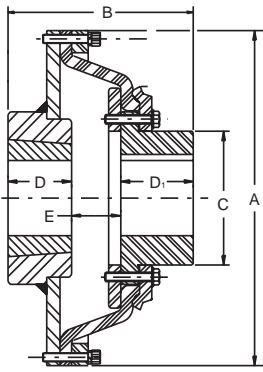
FEATURES/BENEFITS PAGE PT1-2	EASY SELECTION PAGE PT1-17	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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SELECTION/DIMENSIONS

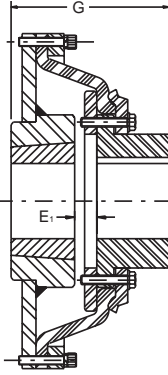


High Speed, Bored to Size

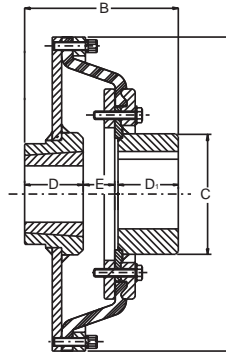


TYPE "H" DISC

SIZE PH87 - 131

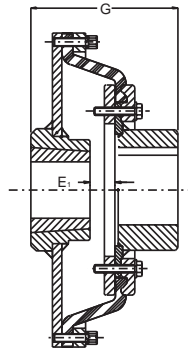


TYPE "F" DISC



TYPE "F" DISC

SIZE PH172 - 252



TYPE "H" DISC

Coupling Size	BS Flange Assembly		TAPER-LOCK Disc Assembly		A	B	C	D	D ₁	E	E ₁	G	Weight (Lbs)	Inertia (Lb-Ft ²)
	Min Bore	Max Bore	Min Bore	Max Bore										
PH87B	none	2-1/8	1/2	2-11/16	9.44	4.59	2.94	1.75	1.75	1.09	0.81	4.31	20.1	1.33
PH96B	none	2-9/16	1/2	2-11/16	10.31	5.44	3.69	1.75	2.00	1.69	0.81	4.56	28.0	2.47
PH116B	none	3-1/4	1/2	2-11/16	12.31	6.13	4.94	1.75	2.63	1.75	0.97	5.31	42.8	5.31
PH131B	none	3-15/16	1/2	2-11/16	13.81	7.25	5.44	1.75	3.00	2.50	1.31	6.06	60.1	9.08
PH172B	2-1/4	4-1/2	1-3/16	3-15/16	18.31	9.06	7.00	3.50	3.88	1.88	1.44	8.63	135.2	30.98
PH192B	2-1/2	6	1-7/16	4-7/16	20.31	11.19	8.50	4.00	5.13	2.25	1.31	10.25	220.6	54.27
PH213B	2-1/2	6-1/4	1-15/16	4-15/16	22.50	11.31	8.75	4.50	4.69	2.31	1.44	10.44	289.2	91.62
PH252B	2-7/8	6-7/8	2-7/16	5-5/16	26.50	14.31	9.50	5.00	5.19	4.31	2.94	12.94	379.9	135.9

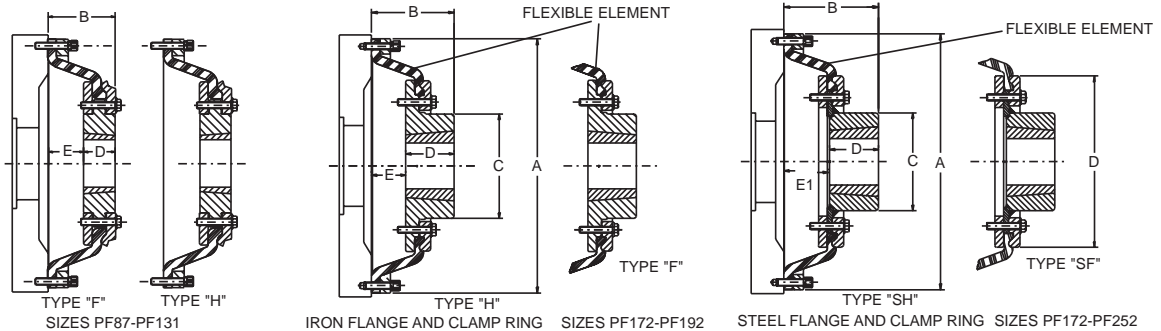
Coupling Size	BS Flange Assy (1) Req'd	TAPER-LOCK Disc Assy (1) Req'd	TAPER-LOCK Bushing Size	HS Element (1) Req'd
PH87B	010301	011307	2517	011227
PH96B	010302	011308	2517	011228
PH116B	010304	011310	2517	011230
PH131B	010305	011311	2517	011231
PH172B	010530	011314	3535	011234
PH192B	010531	011316	4040	011236
PH213B	010508	011319	4545	011239
PH252B	010509	011322	5050	011242

Complete coupling consists of: (1) BS Flange Assembly, (1) TAPER-LOCK Disc Assembly, (1) High Speed Element, and (1). TAPER-LOCK Bushing. TAPER-LOCK bushings must be ordered separately.

FEATURES/BENEFITS PAGE PT1-2	EASY SELECTION PAGE PT1-17	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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Flywheel, TAPER-LOCK



Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lbs)	Max. RPM		A	B	
						Gray Iron Flange	Steel Flange		Iron Flg.	Steel Flg.
PF87	1610	1/2	1-11/16	3.00	1890	6000	6000	9.44	2.69	.....
PF96	2012	1/2	2-1/8	4.50	2835	5230	5230	10.31	2.83	.....
PF116	2517	1/2	2-11/16	7.10	4470	4050	4050	12.31	3.14	.....
PF131	2517	1/2	2-11/16	9.50	5985	3750	3750	13.81	3.70	.....
PF172	3535	1-3/16	3-15/16	23.00	14490	1860	2800	18.31	5.81	6.72
PF192	4040	1-7/16	4-7/16	47.00	29610	1620	2430	20.31	6.56	7.50
PF213	4545	1-15/16	4-15/16	90.00	56700	.....	2130	22.50	.....	9.00
PF252	5050	2-7/16	5-5/16	135.00	85050	.....	1945	26.50	.....	10.81

Coupling Size	Bushing Size	C		D	E	E ₁	Weight (Lbs) Less Bushing		Inertia (Lb-Ft ²)	
		Iron Flg.	Steel Flg.				Iron Flgs	Steel Flgs	Iron Flgs	Steel Flgs
PF87	1610	.....	.....	1.00	1.34	.....	9.9	.....	0.6	.....
PF96	2012	.....	.....	1.25	1.58	.....	13.5	.....	1.05	.....
PF116	2517	.....	.....	1.75	1.39	.....	22.3	.....	2.35	.....
PF131	2517	.....	.....	1.75	1.95	.....	33.3	.....	4.35	.....
PF172	3535	7.50	7.00	3.50	2.31	3.12	87.2	77.5	17.49	15.73
PF192	4040	8.63	8.50	4.00	2.56	3.50	128.6	128.6	28.84	28.12
PF213	4545	.....	8.75	4.50	-	4.50	221.2	190.2	74.47	64.36
PF252	5050	.....	9.50	5.00	-	5.81	297.9	260.9	121.79	111.38

PF87 THRU PF252 PART NUMBERS

Coupling Size	TAPER-LOCK Flange (1) Req'd					Bolt Ring Assy (1) Req'd	High Speed Element (1) Req'd	T-L Bushing Size
	Std Flange	Iron Flange		Steel Flange				
		Type H	Type F	Type SH	Type SF			
PF87	010603	.....	.....	.....	.....	011247	011227	1610
PF96	010604	.....	.....	.....	.....	011248	011228	2012
PF116	010606	.....	.....	.....	.....	011250	011230	2517
PF131	010607	.....	.....	.....	.....	011251	011231	2517
PF172	.....	011134	011154	010290	010294	011254	011234	3535
PF192	.....	011137	011157	010291	010295	011256	011236	4040
PF213	.....	.....	.....	010292	010296	011259	011239	4545
PF252	.....	.....	.....	010293	010297	011262	011242	5050

Complete coupling consists of: (1) TAPER-LOCK Flange Assembly (as selected), (1) Bolt Ring Assembly, (1) High Speed Element, and (1) TAPER-LOCK Bushing. TAPER-LOCK Bushings must be ordered separately. See page PT1-40 for Flywheel & Power Take Off housing information.

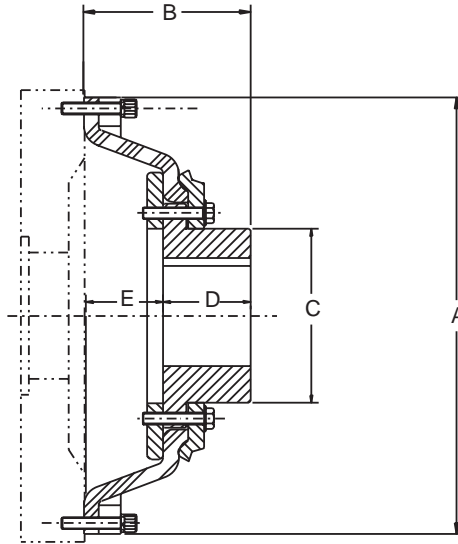
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SELECTION/DIMENSIONS



Flywheel, Bored To Size



PF87B THRU PF252B BORED-TO-SIZE FLYWHEEL COUPLINGS

Coupling Size	Min. Bore	Max .Bore	HP/100	Torque (In-Lbs)	Max. RPM Steel Flg	A	B	C	D	E	Weight (Lbs)	Inertia (Lb-Ft ²)
PF87B	none	2-1/8	3.0	1890	6000	9.44	3.38	2.94	1.75	1.63	10.5	0.61
PF96B	none	2-9/16	4.5	2835	5230	10.31	3.94	3.69	2.00	1.94	14.3	1.08
PF116B	none	3-1/4	7.1	4470	4050	12.31	4.68	4.94	2.63	2.00	24.3	2.47
PF131B	none	3-15/16	9.5	5980	3750	13.81	5.50	5.44	3.00	2.50	33.7	4.56
PF172B	2-1/4	4-1/2	23.0	14490	2800	18.31	6.81	7.00	3.88	3.13	84.2	16.73
PF192B	2-1/2	6	47.0	29610	2430	20.31	8.44	8.50	5.13	3.50	129.6	32.02
PF213B	2-1/2	6-1/4	90.0	56700	2130	22.50	9.00	8.75	4.69	4.50	188.2	65.76
PF252B	2-7/8	6-7/8	135.0	85050	1945	26.50	10.81	9.50	5.19	5.81	250.9	113.58

PF87 - PF252B PART NUMBERS

Coupling Size	BS Flange Assy (1) Req'd	Bolt Ring Assy (1) Req'd	High Speed Element (1) Req'd
PF87B	010301	011247	011227
PF96B	010302	011248	011228
PF116B	010304	011250	011230
PF131B	010305	011251	011231
PF172B	010530	011254	011234
PF192B	010531	011256	011236
PF213B	010508	011259	011239
PF252B	010509	011262	011242

Complete coupling consists of: (1) BS Flange Assembly, (1) Bolt Ring Assembly, and (1) High Speed Element.

SAE POWER TAKE OFF & FLYWHEEL INFO.

Coupling Size	Fits Within These SAE Power Take-Off Housings	SAE Flywheel		
		Bolt Circle Diam.	Tapped Holes	
			No.	Size
PF87	6,5	8-3/4	8	5/16-18
PF96	4,3	9-5/8	6	3/8-16
PF116	4,3,2,1	11-5/8	8	3/8-16
PF131	3,2,1,0	13-1/8	8	3/8-16
PF172	0	17-1/4	8	1/2-13
PF192	0	19-1/4	8	1/2-13
PF213	0	21-3/8	6	5/8-11
PF252	0	25-1/4	12	5/8-11



NYLIGN Light Duty Flexible Couplings

This economical, Light Duty (non-lubricated) Coupling uses a 100% Nylon sleeve and aluminum hubs. Coupling is rated 10HP @ 1750 RPM or 20 HP @ 3450 RPM with speeds up to 5000 RPM. Can accommodate misalignment up to 1-1/2° per side. It is lightweight, requiring no lubrication or maintenance.

Hubs are available only with clearance bores and standard keyways shown in table below. Order a sleeve to go with each pair of hubs. Combinations to suit most applications can be assembled from two types of hubs.



Ambient Temperature
Limit -0°F to +170°F

NYLIGN LIGHT DUTY PARTS					
Hub▲					
Type No.	Finish Bore			No. Key-way ★	Nylon Sleeve
	Nom.	Part No.	Actual +.002 -.000		
4	1/2	148343	.501	None	148340 One Per Coupling
	5/8	148344	.626	3/16x3/32	
	3/4	148345	.751	3/16x3/32	
	7/8	148346	.876	3/16x3/32	
7	1	148347	1.001	1/4x1/8	
	1-1/8	148348	1.126	1/4x1/8	
	1-1/4	148349	1.251	1/4x1/8	
	1-3/8	148350	1.376	5/16x5/32	

▲ Two required per coupling. Consists of aluminum hubs with the finish bores shown (No modification available). Hubs may be used in combinations shown in table below.

★ One 1/4-20 setscrew furnished over keyway in each hub.



NYLIGN LIGHT DUTY COUPLING DIMENSIONS

Bore and Keyway	Hub Combinations	Drwg. (Fig. No.)	A Dia	A1 Dia.	B	B1	C Dia.	D	E	E ₁	F	G★
See Table Above	No. 4 Hub, Both Ends	1	1-11/16	---	13/16	---	1-15/16	3-1/32	1-3/8	---	1-13/32	9/32
	No. 4 Hub, One End No. 7 Hub, Other End	2	1-11/16	2-1/4	13/16	1-7/16	1-15/16	3-21/32	1-3/8	1-1/8	1-13/32	1-5/32
	No. 7 Hub Both Ends	3	---	2-1/4	---	1-7/16	1-15/16	4-9/32	---	1-1/8	1-13/32	2-1/32

★ Nominal distance between shaft ends (B.S.E)

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FEATURES/BENEFITS



GRID-LIGN



The basic GRID-LIGN coupling consists of two steel shaft hubs, a high strength spring steel tapered grid element, two seals and a cover assembly.

Misalignment and end float are accommodated by the sliding action of the grid in the lubricated hub grooves.

Standard GRID-LIGN couplings operate reliably between -35° and $+210^{\circ}$ F. They can accept angular misalignment to $1/2^{\circ}$, parallel misalignment to $.012''$, and end float to $.375''$. Speed capability goes as high as 6000 RPM.

GRID-LIGN couplings can be mounted with TAPER-LOCK bushings on shafts from $1/2''$ to $3-15/16''$. Straight bore hubs go up to 7" bore.

Flexible Tapered Element

- Isolates vibration, cushions shock loads
- Allows uniform contact during light, normal and shock loading conditions
- Lengthens machine life
- Constructed from tempered spring steel for long life

High Torque Capability

- Torque ranges from 422 to 230,000 in. lbs.
- Steel components allow for compact size

Interchangeability

- Stock GRID-LIGN coupling configurations include the standard full-flex design in vertically or horizontally split covers, half spacers and full spacers
- Interchangeable with other taper grid style couplings

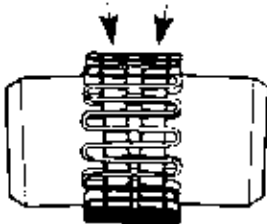


GRID-LIGN

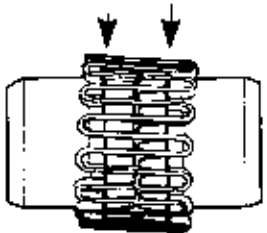
STYLE, SIZES AND RATINGS CHART

Coupling Styles	Number of Sizes	Maximum Ratings		
		Bore	Torque	Speed
T10 Standard Coupling H Cover	13	7.0"	230,000	6000
T20 Standard Coupling V Cover	10	5.0"	75,000	6000
T31 Full Spacer	8	4.25"	30,000	3600
T35 Half Spacer	8	4.25"	30,000	3600

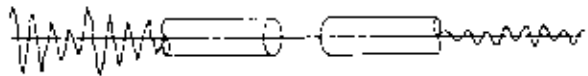
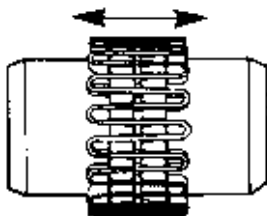
Angular Misalignment



Parallel Misalignment



End Float



TAPERED GRID DESIGN

- Tapered grid element, combined with the contoured hub grooves, transmit torque efficiency while accommodating misalignment and cushioning shock loads
- Grid element made from high strength steel that is quenched and tempered for long life



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



GRID-LIGN

SPECIFICATION

GRID-LIGN Couplings are tapered grid style with hubs, grids and covers which are interchangeable with other industry standard tapered grid couplings. Grid hubs are machined steel, protected with an anti-rust coating. Hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with two set screws, one over the key and one at 65°. The grid element is made of high strength spring steel, heat treated and shot peened to enhance strength and durability.

The coupling is designed and manufactured such that the grid member can be replaced without disturbing the connected equipment and without the requirement for realignment. All Grid-Lign Couplings are fitted with covers to retain lubrication and prevent the entry of abrasives and contaminants. Covers are of a two piece design to facilitate installation and are available as axial split or radial split. DODGE will provide recommendations for types and amounts of lubricant suitable for operation in ambient temperatures from -35°F to +210°F.

Spacer Couplings consist of two shaft hubs and a center assembly consisting of two spacer hubs, one grid and cover. The center assembly is readily removable to facilitate maintenance on pumps or other connected equipment. The center assembly must be replaceable without disturbing the coupled equipment and without realignment.

HOW TO ORDER

Standard couplings consist of:
 (2) Shaft Hubs
 (1) T10 (or T20) Grid & Cover Assembly

Spacer couplings consists of:
 T31 Spacer
 (2) "T" Shaft Hubs
 (2) Spacer Hubs
 (1) T10 Grid & Cover Assembly
 T35 Half Spacer
 (1) Shaft Hub
 (1) Spacer Hub
 (1) "T" Shaft Hub
 (1) T10 Grid & Cover Assembly

NOMENCLATURE

	Size _____ 1020 _____ T10
	Coupling Type _____ T10 = Horizontal Split Cover T20 = Vertical Split Cover T31 = Full Spacer T35 = Half Spacer



GRID-LIGN

MOTOR			GRID-LIGN STRAIGHT BORE TYPES T10 & T20			GRID-LIGN TAPER-LOCK TYPES T10 & T20			GRID-LIGN STRAIGHT BORE TYPES T31 & T35			GRID-LIGN STRAIGHT BORE TYPES T31 & T35		
H.P.	FRAME	SHAFT DIA.	SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR			SERVICE FACTOR		
			LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0	LIGHT 1.0	MEDIUM 1.5	HEAVY 2.0
1	143T	0.875	1020T	1020T	1020T	1030T	1030T	1030T	1020T	1020T	1020T	1020T	1020T	1020T
1.5	145T	0.875	1020T	1020T	1020T	1030T	1030T	1030T	1020T	1020T	1020T	1020T	1020T	1020T
2	145T	0.875	1020T	1020T	1020T	1030T	1030T	1030T	1020T	1020T	1020T	1020T	1020T	1020T
3	182T	1.125	1020T	1020T	1020T	1030T	1030T	1030T	1020T	1020T	1020T	1020T	1020T	1020T
5	184T	1.125	1020T	1020T	1020T	1030T	1030T	1030T	1020T	1020T	1020T	1020T	1020T	1020T
7.5	213T	1.375	1030T	1030T	1030T	1040T	1040T	1040T	1020T	1020T	1030T	1040T	1040T	1040T
10	215T	1.375	1030T	1030T	1030T	1040T	1040T	1040T	1020T	1030T	1030T	1040T	1040T	1040T
15	254T	1.625	1040T	1040T	1040T	1060T	1060T	1060T	1030T	1030T	1030T	1050T	1050T	1050T
20	256T	1.625	1040T	1040T	1040T	1060T	1060T	1060T	1030T	1030T	1040T	1050T	1050T	1050T
25	284T	1.875	1050T	1050T	1050T	1070T	1070T	1070T	1040T	1040T	1040T	1060T	1060T	1060T
30	326T	1.875	1050T	1050T	1050T	1070T	1070T	1070T	1040T	1040T	1050T	1060T	1060T	1060T
	286TS	1.625	1040T	1040T	1040T	1060T	1060T	1060T	1040T	1040T	1050T	1050T	1050T	1050T
40	324T	2.125	1060T	1060T	1060T	1070T	1070T	1070T	1040T	1050T	1050T	1060T	1060T	1060T
	324TS	1.875	1050T	1050T	1050T	1070T	1070T	1070T	1040T	1050T	1050T	1060T	1060T	1060T
50	326T	2.125	1060T	1060T	1060T	1070T	1070T	1070T	1040T	1050T	1050T	1060T	1060T	1060T
	326TS	1.875	1050T	1050T	1050T	1070T	1070T	1070T	1040T	1050T	1050T	1060T	1060T	1060T
60	364T	2.375	1070T	1070T	1070T	1080T	1080T	1080T	1050T	1050T	1060T	1070T	1070T	1070T
	364TS	1.875	1050T	1050T	1050T	1070T	1070T	1070T	1050T	1050T	1060T	1060T	1060T	1060T
75	365T	2.375	1070T	1070T	1070T	1080T	1080T	1080T	1050T	1060T	1060T	1070T	1070T	1070T
	365TS	1.875	1060T	1060T	1060T	1070T	1070T	1070T	1050T	1060T	1060T	1060T	1060T	1060T
100	404T	2.875	1080T	1080T	1080T	1090T	1090T	1090T	1060T	1060T	1070T	1090T	1090T	1090T
	404TS	2.125	1060T	1060T	1060T	1070T	1070T	1070T	1050T	1060T	1070T	1060T	1060T	1070T
125	405T	2.875	1080T	1080T	1080T	1090T	1090T	1090T	1060T	1070T	1080T	1090T	1090T	1090T
	405TS	2.125	1060T	1070T	1080T	1070T	1070T	1080T	1060T	1070T	1080T	1060T	1070T	1080T
	444T	3.375	1090T	1090T	1090T	1110T	1110T	1110T	1080T	1080T	1080T	1100T	1100T	1100T
	444TS	2.375	1070T	1070T	1080T	1080T	1080T	1080T	1060T	1070T	1080T	1070T	1070T	1080T
150	444/5T	3.375	1090T	1090T	1090T	1110T	1110T	1110T	1080T	1080T	1080T	1100T	1100T	1100T
	444/5TS	2.375	1070T	1070T	1080T	1080T	1080T	1080T	1060T	1070T	1080T	1070T	1070T	1080T
200	444T	3.375	1090T	1090T	1090T	1110T	1110T	1110T	1080T	1080T	1080T	1100T	1100T	1100T
	444TS	2.375	1070T	1080T	1080T	1080T	1080T	1080T	1070T	1080T	1080T	1070T	1080T	1080T

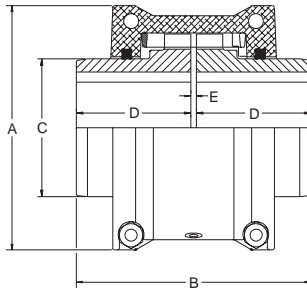


SELECTION/DIMENSIONS

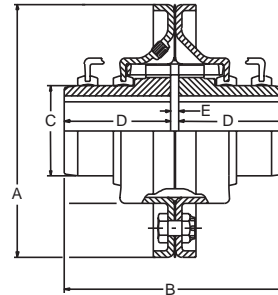


GRID-LIGN

STANDARD, STRAIGHT BORE AND TAPER-LOCK DIMENSIONS/RATINGS



TYPE T10



TYPE T20

Coupling Size	Straight Bore			TAPER-LOCK		HP/100		TORQUE		Max.RPM	
	Min. Bore	Maximum Bore		Min. Bore	Max. Bore	Str. Hub	T-L Hub	Str. Hub (In-Lbs)	T-L Hub (In-Lbs)	T10	T20
		Sq. Key	Rec. Key								
1020T	0	1-1/8	1-3/16	N/A	N/A	0.67	-	422	-	4500	6000
1030T	0	1-3/8	1-7/16	1/2	1-1/8	1.90	1.90	1200	1200	4500	6000
1040T	0	1-5/8	1-3/4	1/2	1-1/8	3.20	2.10	2000	1300	4500	6000
1050T	0	1-7/8	2	1/2	1-1/4	5.60	5.60	3500	3500	4500	6000
1060T	0	2-1/8	2-1/4	1/2	1-11/16	8.70	6.80	5500	4300	4350	6000
1070T	0	2-1/2	2-11/16	1/2	2-1/8	13.00	11.30	8000	7150	4125	5500
1080T	0	3	3-1/4	3/4	2-11/16	26.00	17.90	16500	11300	3600	4750
1090T	0	3-1/2	3-3/4	15/16	3-1/4	48.00	38.10	30000	24000	3600	4000
1100T	0	4	4-1/4	15/16	3-1/4	80.00	38.10	50500	24000	2440	3250
1110T	0	4-1/2	4-5/8	1-13/16	3-15/16	120.00	71.10	75000	44800	2250	3000
1120T	2-3/8	5	5-3/8	*	*	175.00	*	110000	*	2025	*
1130T	2-5/8	6	6-1/2	*	*	254.00	*	160000	*	1800	*
1140T	2-5/8	7	7-1/4	*	*	365.00	*	230000	*	1650	*

Coupling Size	A		B		C	D		E	Weight (Lbs.) (1)		Inertia (Lb. Ft. ²) (2)
	T10	T20	Str. Hub	T-L Hub		Str. Hub	T-L Hub		T10	T20	
1020T	3.47	4.38	3.89	N/A	1.56	1.88	N/A	0.13	2.80	3.00	0.03
1030T	3.88	4.75	3.89	3.39	1.94	1.88	1.63	0.13	3.80	4.00	0.05
1040T	4.22	5.06	4.13	3.36	2.25	2.00	1.63	0.13	4.70	4.90	0.08
1050T	5.09	5.81	4.88	3.89	2.63	2.38	1.88	0.13	7.30	7.50	0.17
1060T	5.47	6.38	5.13	4.38	3.00	2.50	2.13	0.13	11.00	11.00	0.28
1070T	5.92	6.81	6.13	4.38	3.44	3.00	2.13	0.13	13.80	14.00	0.44
1080T	6.92	7.88	7.13	5.39	4.13	3.50	2.63	0.13	25.10	25.60	1.07
1090T	7.70	9.13	7.88	6.39	4.88	3.88	3.13	0.13	35.10	35.60	1.65
1100T	9.88	10.50	9.69	7.19	5.59	4.75	3.50	0.19	62.60	63.20	3.70
1110T	10.63	11.25	10.19	7.45	6.31	5.00	3.63	0.19	78.50	79.00	5.60
1120T	12.13	*	12.00		7.06	5.88	*	0.25	114.00		10.80
1130T	13.63	*	13.00		8.56	6.38	*	0.25	165.00		20.20
1140T	15.13	*	14.75		10.00	7.25	*	0.25	236.00		36.40

(1) Weight of complete coupling at maximum bore

(2) Inertia of complete coupling at maximum bore

* Priced on Request

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SELECTION/DIMENSIONS



GRID-LIGN

TYPE T10 AND T20 GRID-LIGN COUPLINGS STANDARD STRAIGHT BORE HUBS, TAPER-LOCK - PART NUMBERS

Size	Clearance Fit								Interference Fit				
	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T	1100T	1110T	1120T	1130T	1140T
T10 Grid/Cover	• 006750	• 006751	• 006752	• 006753	• 006754	• 006755	• 006756	• 006757	• 006758	• 006759	• 006760	• 006761	• 006762
T20 Grid/Cover	• 006765	• 006766	• 006767	• 006768	• 006769	• 006770	• 006771	• 006772	• 006773	• 006774	*	*	*
Grid	• 006275	• 006276	• 006277	• 006278	• 006279	• 006280	• 006281	• 006282	• 006283	• 006284	*	*	*
T10 Cover	• 006250	• 006251	• 006252	• 006253	• 006254	• 006255	• 006256	• 006257	• 006258	• 006259	*	*	*
T20 Cover	• 006260	• 006261	• 006262	• 006263	• 006264	• 006265	• 006266	• 006267	• 006268	• 006269			
T-L Hubs	N/A	006318	006319	006320	006321	006322	006323	006324	006325	006326	*	*	*
Bushing Size	N/A	1108	1108	1215	1615	2012	2525	3030	3030	3535			
Reborable	• 006290	• 006291	• 006292	• 006293	• 006294	• 006295	• 006296	• 006297	• 006298	• 006299	• 006300	• 006301	• 006245
Finished Bore Hub													
1/2	• 006580												
5/8	• 006581	• 006585											
3/4	• 006582	• 006586											
7/8	• 006583	• 006587	• 006592	• 006576									
15/16	• 006571	• 006572	• 006950	• 006953	• 006957								
1	• 006584	• 006588	• 006593	• 006577									
1-1/8	• 006793	• 006589	• 006594	• 006599	• 006578								
1-3/16			• 006951	• 006954	• 006958								
1-1/4		• 006590	• 006595	• 006600	• 006579	• 006629							
1-3/8		• 006591	• 006596	• 006601	• 006606	• 006640							
1-7/16			• 006952	• 006955	• 006643	• 006961	• 006642						
1-1/2			• 006597	• 006602	• 006607	• 006641	006539	006540					
1-5/8			• 006598	• 006603	• 006608	• 006612							
1-11/16				• 006956	• 006959	006962							
1-3/4				• 006604	• 006609	• 006613							
1-7/8				• 006605	• 006610	• 006614	006573	006541					
1-15/16					• 006960	006963							
2					006794	• 006615	• 006620						
2-1/8					006611	• 006616	• 006621	• 006656					
2-3/16						006964	006966						
2-1/4						• 006617	• 006622	• 006657					
2-3/8						• 006618	• 006623	• 006804					
2-7/16						006965	006967						
2-1/2						• 006619	• 006624	• 006795	006460				
2-5/8							• 006625	• 006796	006461				
2-11/16							006968	• 006790	006473				
2-3/4							• 006626	• 006797	006462				
2-7/8							• 006627	• 006798	• 006463				
2-15/16							006969	• 006791	006474				
3							• 006628	• 006799	006464	006486			
3-1/8								• 006800	006465	006487			
3-1/4								• 006801	006466	006488			
3-3/8								• 006802	006467	• 006489			
3-7/16								• 006792	006475	006484			
3-1/2								• 006803	• 006468	006490			
3-5/8									006469	006491			
3-3/4								006480	006470	006492			
3-7/8									006471	006493			
3-15/16									006476	006485			
4									006472	006494			

• Stock Sizes *Priced on request

Note: For TAPER-LOCK design, TAPER-LOCK bushings must be ordered separately

Complete coupling consists of: (2) Hubs, TAPER-LOCK or straight bore, and (1) Grid & cover assy.

FEATURES/BENEFITS PAGE PT1-42	EASY SELECTION PAGE PT1-45	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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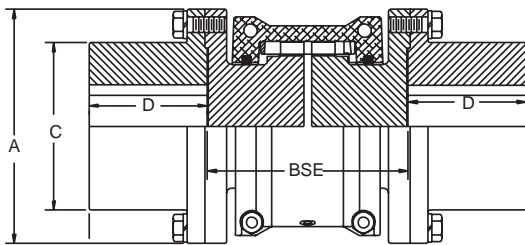


SELECTION/DIMENSIONS

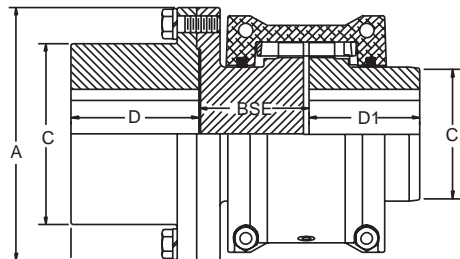


GRID-LIGN

SPACER, STRAIGHT BORE & TAPER-LOCK DIMENSIONS/RATINGS



TYPE T31



TYPE T35

Coupling Size	Straight Bore			TAPER-LOCK		HP/100(5)		TORQUE (5)		Max.RPM	T31 Weight*	
	Min. Bore	Maximum Bore		Min .Bore	Max .Bore	Str. Hub	T-L Hub	Str. Hub (In-Lbs)	T-L Hub (In-Lbs)		(1)	(2)
		Sq. Key	Rec. Key									
1020T	---	1-3/8	1-7/16	1/2	1-1/8	0.67	0.67	422	422	3600	8.1	.54
1030T	---	1-5/8	1-3/4	1/2	1-1/8	1.90	1.90	1200	1200	3600	11.1	.83
1040T	---	2-1/8	2-1/4	1/2	1-7/16	3.20	3.20	2000	2000	3600	18.0	1.11
1050T	---	2-3/8	2-1/2	1/2	1-11/16	5.60	5.60	3500	3500	3600	26.6	1.52
1060T	---	2-7/8	3-1/8	1/2	2-1/8	8.70	8.70	5500	5500	3600	42.7	1.98
1070T	---	3-1/8	3-1/4	3/4	2-11/16	13.00	13.00	8000	8000	3600	52.3	2.60
1080T	---	3-1/2	3-3/4	3/4	2-11/16	26.00	17.90	16,500	11,300	3600	84.8	3.70
1090T	---	4	4-1/4	15/16	3-1/4	48.00	38.10	30,000	24,000	3600	130.0	5.20

Coupling Size	A	C	C1	D	D1	T31 BSE		T35 BSE		T31 Inertia (Lb. Ft. ²)	
						Min.	Max.	Min.	Max.	(3)	(4)
1020T	3.38	2.06	1.56	1.38	1.88	3.50	8.00	1.78	4.03	0.07	0.001
1030T	3.69	2.34	1.94	1.63	1.88	3.50	8.50	1.78	4.28	0.11	0.003
1040T	4.44	3.11	2.25	2.13	2.00	3.50	8.50	1.78	4.28	0.21	0.005
1050T	4.94	3.44	2.63	2.38	2.38	4.38	8.50	2.22	4.28	0.51	0.010
1060T	5.69	4.06	3.00	2.88	3.50	5.00	13.00	2.53	6.53	0.88	0.020
1070T	6.00	4.31	3.44	3.13	3.00	5.00	13.00	2.53	6.53	1.23	0.030
1080T	7.00	4.81	4.13	3.50	3.50	7.25	16.00	3.66	8.03	2.49	0.060
1090T	8.25	5.63	4.88	4.00	3.88	7.25	16.00	3.66	8.03	5.01	0.110

(1) Weight of T31 coupling at maximum bore

(2) Weight adder per inch

(3) Inertia of T31 coupling at maximum bore

(4) Inertia adder per inch

(5) HP/100 and TORQUE ratings for T-L style shaft hubs apply for "T" shaft hubs. See page PT1-46 for standard T-L style shaft hubs

* For weight and inertia of T35 use 1/2 of T31 value (this page) and 1/2 T10 value (page PT1-46)



GRID-LIGN

TYPE T31 AND T35 GRID-LIGN COUPLINGS, SPACER STRAIGHT BORE "T" HUBS, TAPER-LOCK "T" HUBS, GRIDS AND COVERS - PART NUMBERS

Size	1020T	1030T	1040T	1050T	1060T	1070T	1080T	1090T
T10Grid/Cover	• 006750	• 006751	• 006752	• 006753	• 006754	• 006755	• 006756	• 006757
Grid	• 006275	• 006276	• 006277	• 006278	• 006279	• 006280	• 006281	• 006282
T10 Cover	• 006250	• 006251	• 006252	• 006253	• 006254	• 006255	• 006256	• 006257
T-L Hubs	• 006328	• 006329	• 006330	• 006331	• 006332	• 006333	• 006334	• 006335
Bushing Size	1108	1108	1310	1615	2012	2525	2525	3030
Reborable	• 006305	• 006306	• 006307	• 006308	• 006309	• 006310	• 006311	• 006312
Finished Bore Hubs								
5/8	• 006903							
7/8	• 006904	• 006907	• 006399					
1	• 006905	• 006908	• 006970	• 006984				
1-1/8	• 006906	• 006909	• 006971	• 006985				
1-1/4	• 006396	• 006397	• 006400	006402	• 006411			
1-3/8	• 006560	• 006894	• 006972	• 006986	• 006412			
1-7/16				• 006456				
1-1/2				006481	• 006413			
1-5/8		• 006398	• 006973	• 006987	• 006414	• 006417	• 006433	
1-3/4			• 006974	• 006988	• 006990	• 006418		
1-7/8			• 006564	• 006989	• 006991	• 006419	• 006434	• 006440
2				• 006457	006482			
2-1/8			• 006401	• 006565	• 006992	• 006429	• 006435	
2-3/8				• 006566	• 006567	• 006430	• 006458	• 006451
2-7/16					• 006415		006550	
2-5/8					• 006416		• 006436	
2-7/8					• 006568	• 006431	• 006437	• 006452
3						• 006432	• 006438	• 006453
3-3/8							• 006439	• 006454
3-7/8							• 006455	• 006455

• Stock Sizes

Complete spacer couplings consists of:

- T31 Spacer -**
- (2) "T" Shaft Hubs
 - (2) Spacer Hubs (Page PT1-50)
 - (1) T10 Grid & Cover Assembly
- T35 Half Spacer -**
- (1) Shaft Hub (Page PT1-47)
 - (1) Spacer Hub (Page PT1-51)
 - (1) "T" Shaft Hub
 - (1) T10 Grid & Cove Assembly

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately

FEATURES/BENEFITS PAGE PT1-42	EASY SELECTION PAGE PT1-45	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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SELECTION/DIMENSIONS



GRID-LIGN

TYPE T31 - FULL SPACER ASSEMBLIES

B.S.E. Dimensions (in.)	Coupling Size															
	1020T		1030T		1040T		1050T		1060T		1070T		1080T		1090T	
	Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly	
	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.
3.5	006497	2	006504	2	006516	2										
3.94	006497	1	006504	1	006516	1										
	006498	1	006505	1	006517	1										
4.25	006497	1	006504	1	006516	1										
	006499	1	006506	1	006518	1										
4.38	006498	2	006505	2	006517	2	006533	2								
4.69	006498	1	006505	1	006517	1	006533	1								
	006499	1	006506	1	006518	1	006534	1								
5	006499	2	006506	2	006518	2	006534	2	006544	2	006553	2				
5.22					006516	1										
					006519	1										
5.38			006504	1	006516	1										
			006507	1	006520	1										
5.66					006517	1	006533	1								
					006519	1	006535	1								
5.81			006505	1	006517	1	006533	1								
			006507	1	006520	1	006536	1								
5.97					006518	1	006534	1								
					006519	1	006535	1								
6.12			006506	1	006518	1	006534	1	006544	1	006553	1				
			006507	1	006520	1	006536	1	006545	1	006554	1				
6.94					006519	2	006535	2								
7.09					006519	1	006535	1								
					006520	1	006536	1								
7.25			006507	2	006520	2	006536	2	006545	2	006554	2	006561	2	006569	2
8.00																
8.59													006561	1		
													006562	1		
8.62									006544	1	006553	1				
									006546	1	006555	1				
8.88																
9.75									006545	1	006554	1	006561	1	006569	1
									006546	1	006555	1	006563	1	006570	1
9.94													006562	2		
11.09													006562	1		
													006563	1		
12.25									006546	2	006555	2	006563	2	006570	2



GRID-LIGN

TYPE T35 - HALF SPACER ASSEMBLIES

B.S.E. Dimensions (in.)	Coupling Size															
	1020T		1030T		1040T		1050T		1060T		1070T		1080T		1090T	
	Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly		Spacer Assembly	
	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.	P/N	Qty.
1.78	006497	1	006504	1	006516	1										
2.22	006498	1	006505	1	006517	1	006533	1								
2.53	006499	1	006506	1	006518	1	006534	1	006544	1	006553	1				
3.50					006519	1	006535	1								
3.66			006507	1	006520	1	006536	1	006545	1	006554	1	006561	1	006569	1
4.06																
5.00													006562	1		
6.16									006546	1	006555	1	006563	1	006570	1

T31 - Full Spacer



T35 - Half Spacer





FEATURES/BENEFITS



Gear Couplings

The Power-Dense, High-Torque Gear Coupling

The new DODGE Gear Coupling (DGF) offers unmatched performance and proven reliability

Quality Manufacturing

- High-quality steel
- Larger tooth profile provides additional service factor
- Good inherent balance
- Proven O-ring seal design
- Machined flanges and gasket for improved sealing
- High-grade fasteners

Performance Benefits

- High torque rating allows for coupling downsizing
- Versatile design permits interchangeable half couplings
- Low backlash (well suited for reversing applications)
- Crowned tooth profile for longer life and improved performance

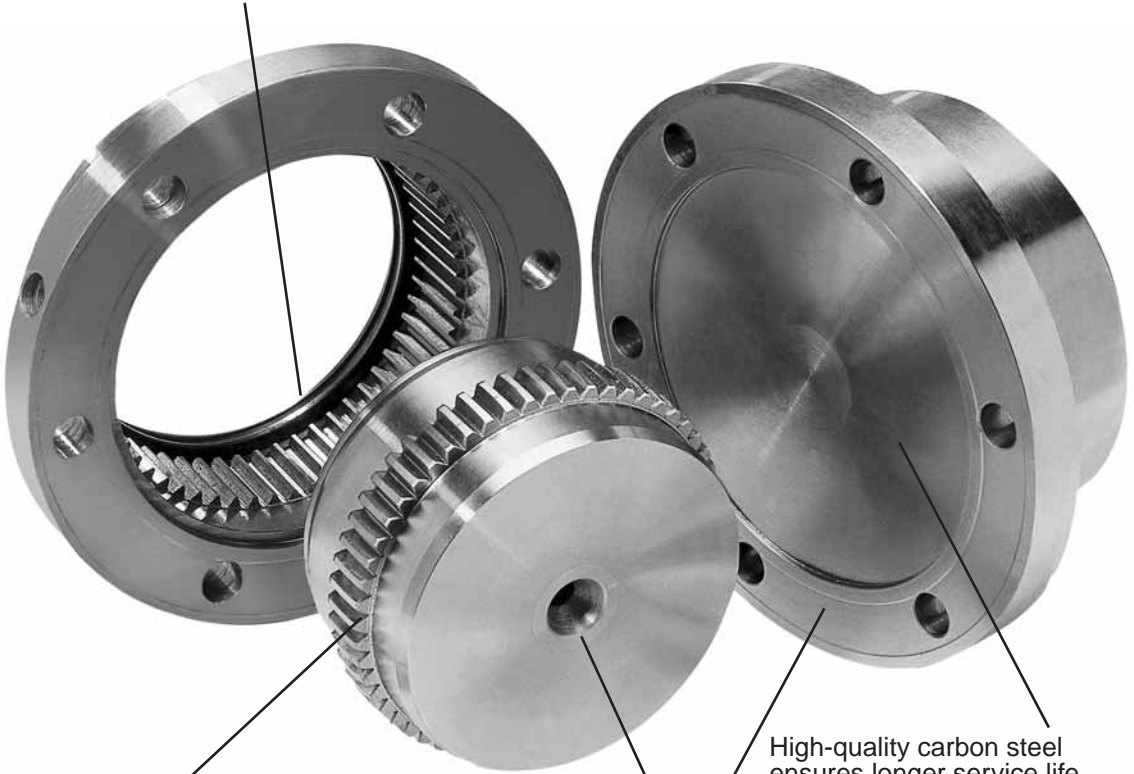
DODGE Benefits

- Coupling solutions for any application
 - Choose from DODGE coupling family: Gear (DGF), PARA-FLEX, GRIND-LIGN, D-FLEX, Rigid and Fluid - all available from stock
- Combine DODGE couplings with any DODGE speed reducer for unmatched performance
 - Choose from thousands of combinations to get a package tailored to meet your needs
- Years of application expertise
 - DODGE engineers can help specify products to achieve maximum results from your equipment



Gear Couplings

Reliable O-ring design effectively seals against contaminants



High-pressure angle provides large tooth base; results in high safety factor

Flexible, rigid hub styles available

High-quality carbon steel ensures longer service life



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Gear Couplings

SPECIFICATION

DODGE GEAR COUPLINGS are power dense and capable of transmitting high torque at high speeds while still remaining inherently well balanced. Gear Couplings transmit torque by the mating of two hubs with external gear teeth that are joined by flanged sleeves with internal gear teeth.


Gear Couplings will be provided with interference fit bores unless otherwise specified. The hubs and sleeves will be manufactured of high quality steel.

HOW TO ORDER

Standard couplings consist of:

- (2) Flex Hubs
- (2) Sleeves
- (1) Hardware Kit

NOMENCLATURE



DGF

DODGE Gear coupling ————

1.0

Size _____

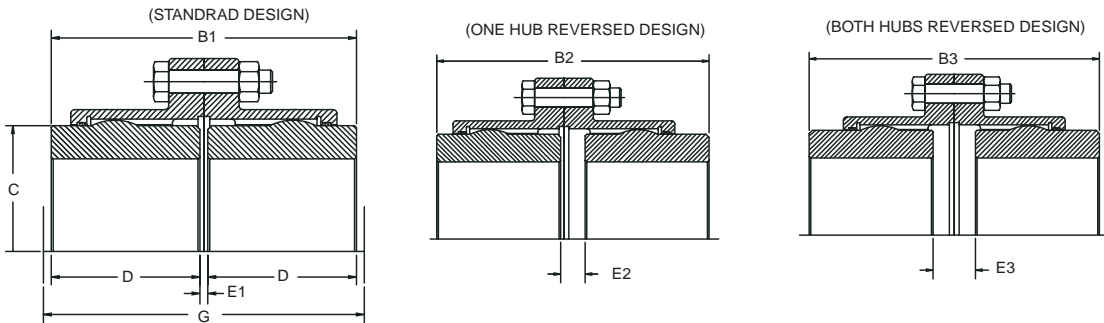
COMPETITOR INTERCHANGE

DODGE DGF	FALK LIFELIGN	KOP-FLEX KOPPERS SERIES H	AMERIGEAR ZURN F SERIES	LOVEJOY/ SIER-BATH
1	1010G20 *	1	201	-
1.5	1015G20	1-1/2	201-1/2	1.5
2	1020G20	2	202	2
2.5	1025G20	2-1/2	202-1/2	2.5
3	1030G20	3	203	3
3.5	1035G20	3-1/2	203-1/2	3.5
4	1040G20	4	204	4
4.5	1045G20	4-1/2	204-1/2	4.5
5	1050G20	5	205	5
5.5	1055G20	5-1/2	205-1/2	5.5
6	1060G20	6	206	6
7	1070G20	7	207	-

* G20 - FLEX-FLEX
G52 - FLEX-RIGID



Gear Couplings



Size	Min. Bore [in.]	Max. Bore [in.] Standard Keyway		Max. Bore [in.] Shallow Keyway		HP/100+ RPM	Torque+ [lb-in.]	Max. RPM*	Max. Parallel Offset [in.]**	Approx. Weight [lbs.]***
		Flex Hub	Rigid Hub	Flex Hub	Rigid Hub					
1	0.438	1.625	2.188	1.750	2.313	12	7500	6000	0.055	9
1.5	0.438	2.125	2.813	2.250	3.063	30	18900	5500	0.060	19
2	0.563	2.750	3.500	3.000	3.750	50	31500	5000	0.085	34
2.5	0.813	3.250	4.250	3.375	4.500	90	56700	4400	0.105	55
3	1.188	4.000	4.875	4.250	5.250	150	94500	4000	0.115	86
3.5	1.563	4.625	5.625	4.875	6.125	240	151300	3500	0.130	135
4	1.813	5.500	6.500	5.625	6.875	350	220600	3000	0.150	195
4.5	1.813	6.000	7.375	6.438	8.000	480	302500	2700	0.175	268
5	2.563	6.875	8.375	7.000	8.875	690	434900	2500	0.200	394
5.5	3.063	7.750	9.250	7.875	9.875	910	573500	2200	0.220	526
6	4.063	8.625	10.125	8.750	11.000	1190	750000	2100	0.120	687
7	5.563	9.500	11.250	9.750	12.250	1600	1008400	2000	0.135	1017

+ Ratings are based on standard interference fit.

* For higher RPM applications, contact DODGE Customer Order Engineering at (864) 284-5700.

** Based on 1-1/2 degrees angular misalignment per gear mesh for sizes 1 through 5-1/2, 3/4 degree angular misalignment per gear mesh for sizes 6 and 7, and maximum bore. Flex-Rigid configurations do not accept parallel misalignment.

*** Approximate weight with minimum bore.

Size	Dimension [in.]								
	B1	B2	B3	C	D	E1	E2	E3	G
1	3-1/2	3-13/16	4-1/8	2-5/16	1-11/16	1/8	7/16	3/4	4-3/16
1.5	4	4-1/4	4-1/2	3	1-15/16	1/8	3/8	5/8	4-3/4
2	5	5-13/16	6-3/8	4	2-7/16	1/8	13/16	1-1/2	6
2.5	6-1/4	7-1/32	7-13/16	4-5/8	3-1/32	3/16	31/32	1-3/4	7-1/8
3	7-3/8	8-1/32	8-11/16	5-5/8	3-19/32	3/16	27/32	1-1/2	8-1/8
3.5	8-5/8	9-3/16	9-3/4	6-1/2	4-3/16	1/4	13/16	1-3/8	9-3/8
4	9-3/4	10-7/16	11-1/8	7-1/2	4-3/4	1/4	15/16	1-5/8	10-1/4
4.5	10-15/16	12	13-1/16	8-1/2	5-5/16	5/16	1-3/8	2-7/16	11-1/2
5	12-3/8	13-23/32	15-1/16	9-1/2	6-1/32	5/16	1-21/32	3	13
5.5	14-1/8	15-5/8	17-1/8	6-29/32	6-29/32	5/16	1-13/16	3-5/16	14-3/8
6	15-1/8	16-17/32	17-15/16	11-1/2	7-13/32	5/16	1-23/32	3-1/8	17
7	17-3/4	19-1/16	20-3/8	13	8-11/16	3/8	1-11/16	3	20

* Minimum space required to install and align coupling.

FEATURES/BENEFITS PAGE PT1-52	SPECIFICATION/NOMENCLATURE PAGE PT1-54	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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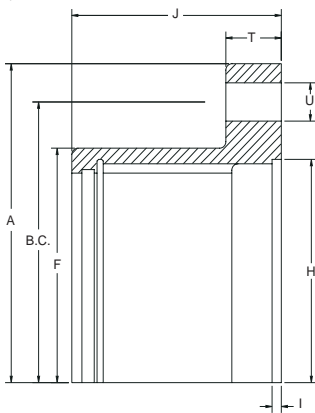


SELECTION/DIMENSIONS



Gear Couplings

(FLANGED SLEEVE AND RIGID HUB DETAILS)



Size	Outside	Flange	Flange	Hub	Under-	Under-	Hole	Bolt	Number of Bolts
	Diameter	Width	Thick-	Diameter	cut	cut	Diameter	Circle	
	A	J	T	F	I	H	U	B.C.	
All Dimensions in Inches									
1	4-9/16	1-21/32	9/16	3	3/32	2 -7/8	1/4	3 -3/8	6
1.5	6	1-7/8	3/4	3-7/8	3/32	3-11/16	3/8	4-13/16	8
2	7	2-3/8	3/4	4-13/16	3/32	4-5/8	1/2	5 -7/8	6
2.5	8-3/8	2-7/8	15/16	5-13/16	3/32	5-7/16	5/8	7-1/8	6
3	9-7/16	3-5/16	15/16	6-13/16	3/32	6 -7/16	5/8	8-1/8	8
3.5	11	3-13/16	1-1/8	7 -27/32	3/32	7-3/8	3/4	9-1/2	8
4	12-1/2	4-1/4	1-1/8	9-3/16	3/16	8-3/4	3/4	11	8
4.5	13-5/8	4-13/16	1-1/8	10-5/16	3/16	9-3/4	3/4	12	10
5	15-5/16	5-1/2	1-1/2	11-7/16	3/16	10-3/4	7/8	13-1/2	8
5.5	16-3/4	6	1-1/2	10-1/2	3/16	12-1/8	7/8	14-1/2	14
6	18	6-11/16	1	13-15/16	3/16	13 -3/8	7/8	15-3/4	14
7	20-3/4	7-3/8	1-1/8	15-3/4	1/4	14-5/8	1	18-1/4	16

PART NUMBERS

Part Number	Description	Part Number	Description	Part Number	Description
Size 1.0		Size 3.0		Size 5.0	
013110	DGF 1.0 FLEX HUB	013126	DGF 3.0 FLEX HUB	013142	DGF 5.0 FLEX HUB
013111	DGF 1.0 SLEEVE EB	013127	DGF 3.0 SLEEVE EB	013143	DGF 5.0 SLEEVE EB
013112	DGF 1.0 RIGID HUB EB	013128	DGF 3.0 RIGID HUB EB	013144	DGF 5.0 RIGID HUB EB
013113	DGF 1.0 HARDWARE KIT	013129	DGF 3.0 HARDWARE KIT	013145	DGF 5.0 HARDWARE KIT
Size 1.5		Size 3.5		Size 5.5	
013114	DGF 1.5 FLEX HUB	013130	DGF 3.5 FLEX HUB	013146	DGF 5.5 FLEX HUB
013115	DGF 1.5 SLEEVE EB	013131	DGF 3.5 SLEEVE EB	013147	DGF 5.5 SLEEVE EB
013116	DGF 1.5 RIGID HUB EB	013132	DGF 3.5 RIGID HUB EB	013148	DGF 5.5 RIGID HUB EB
013117	DGF 1.5 HARDWARE KIT	013133	DGF 3.5 HARDWARE KIT	013149	DGF 5.5 HARDWARE KIT
Size 2.0		Size 4.0		Size 6.0	
013118	DGF 2.0 FLEX HUB	013134	DGF 4.0 FLEX HUB	013150	DGF 6.0 FLEX HUB
013119	DGF 2.0 SLEEVE EB	013135	DGF 4.0 SLEEVE EB	013151	DGF 6.0 SLEEVE EB
013120	DGF 2.0 RIGID HUB EB	013136	DGF 4.0 RIGID HUB EB	013152	DGF 6.0 RIGID HUB EB
013121	DGF 2.0 HARDWARE KIT	013137	DGF 4.0 HARDWARE KIT		DGF 6.0 HARDWARE KIT
Size 2.5		Size 4.5		Size 7.0	
013122	DGF 2.5 FLEX HUB	013138	DGF 4.5 FLEX HUB	013154	DGF 7.0 FLEX HUB
013123	DGF 2.5 SLEEVE EB	013139	DGF 4.5 SLEEVE EB	013155	DGF 7.0 SLEEVE EB
013124	DGF 2.5 RIGID HUB EB	013140	DGF 4.5 RIGID HUB EB	013156	DGF 7.0 RIGID HUB EB
013125	DGF 2.5 HARDWARE KIT	013141	DGF 4.5 HARDWARE KIT	013157	DGF 7.0 HARDWARE KIT

Ordering Information: Standard Gear Couplings may be orders in 3 different assemblies -

- 1*. Flex-Flex (or Full Flex): To order a complete Flex-Flex coupling you need - (2) Flex Hubs [re-borable], (2) Sleeves (includes Seal), and (1) Hardware Kit.
2. Flex-Rigid: To order a complete Flex-Rigid Coupling you need - (1) Flex Hub [re-borable], (1) Sleeve (includes Seal), (1) Rigid Hub [re-borable], and (1) Hardware Kit.
3. Rigid-Rigid: To order a complete Rigid-Rigid Coupling you need - (2) Rigid Hubs [re-borable], and (1) Hardware Kit.



Chain Couplings



DODGE Chain Couplings offer a simple, widely accepted and inexpensive way to couple two shafts. They are interchangeable with industry standard dimensions. DODGE Chain Couplings can be provided with TAPER-LOCK bushed hubs, finished bore or reboreable flanges. Chain coupling covers and chain assemblies are also available from stock.

Shaft Attachment Flexibility

- TAPER-LOCK bushings
- Slip fit with setscrews
- Interference fit

High Torque Capability

- Hardened tooth sprockets
- ANSI standard double width roller chain

Compact Design

- All metallic components
- Excellent torque to bore compatibility

Low Operating Cost

- Long service life
- Inexpensive initial investment
- Economical replacement costs

Broad Product Line

- Six popular TAPER-LOCK coupling sizes
- Eleven popular straight bore sizes
- Stocked covers available for higher speeds



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Chain Couplings

SPECIFICATION

Chain Couplings transmit torque through two hubs with hardened sprocket teeth and a double width roller chain. The chain is wrapped around the sprocket and connected with a link or pin for easy installation or removal. The Chain Coupling allows for misalignment through the clearances between chain and sprocket teeth. The coupling allows 2° angular misalignment, .015" parallel misalignment and up to .300" shaft end float. The temperature range is -30°F to +225°F.

The coupling hubs have optional methods of attachment to the shaft including but not limited to: clearance fit, interference fit or TAPER-LOCK bushings. Clearance fits and interference fits are supplied with an industry standard keyway. Clearance fits are supplied with one set screw over the keyway.

Aluminum covers with elastomeric seals contain lubricant and protect the chain and teeth in an abrasive or corrosive atmosphere.

HOW TO ORDER

Standard couplings consist of:

- (2) Flanges
- (1) Chain Assembly
- (1) Cover (check RPM requirements in Engineering/Technical section)

NOMENCLATURE

	<p>FB _____</p> <p>60 _____</p> <p>18 _____</p>
	<p>FB = Finished Bore</p> <p>B = Reborable</p> <p>Blank = TAPER-LOCK</p> <p>Chain Size _____</p> <p>Number of Teeth _____</p>



Chain Couplings

Basic Size No.	Max. Bore			Max. RPM		*HP Ratings at Various RPM 1.0 Service Factor									
	TAPER-LOCK	Finished Bore	Reborable	Without Covers	With Covers	10	20	40	60	80	100	150	200	250	300
4012	..	3/4	7/8	875	5000	0.22	0.43	0.86	1.29	1.72	2.15	2.83	3.43	4.03	4.57
4016	1-1/8	1-1/8	1-5/16	875	5000	0.38	0.77	1.53	2.30	3.06	3.83	5.02	6.06	7.14	8.08
5012	...	1-1/8	1-1/8	875	...	40	0.81	1.61	2.42	3.23	4.03	5.30	6.39	7.57	8.57
5016	...	1-5/8	1-11/16	800	4000	0.73	1.46	2.93	4.39	5.86	7.32	9.60	11.7	13.7	15.5
5018	1-11/16	...	2	800	4000	0.95	1.89	3.79	5.68	7.57	9.47	12.4	15.0	17.7	20.0
6018	...	2-7/16	2-7/16	675	3000	1.73	3.46	6.92	10.4	13.8	17.3	22.9	27.6	32.5	36.8
6020	2-1/8	...	2-3/4	675	3000	2.25	4.50	9.01	13.5	18.0	22.5	29.6	35.6	42.0	47.6
8018	...	2-7/8	3-1/8	500	2000	3.86	7.72	15.4	23.2	30.9	38.6	50.8	61.4	72.3	81.5
8020	3-1/4	...	3-9/16	500	2000	5.03	10.1	20.1	30.2	40.3	50.3	66.1	79.7	94.0	106.0
10020	3-15/16	...	4-5/8	450	1800	8.68	17.4	34.7	52.1	69.4	86.8	115.0	139.0	162.0	184.0
12018	...	...	4-11/16	400	...	13.7	27.3	54.6	82.0	109.0	137.0	178.0	217.0	253.0	288.0
12020	4-7/16	...	...	400	1600	16.8	33.6	67.2	101.0	134.0	168.0	218.0	264.0	308.0	350.0

* T. L. Bushings are not recommended below 250 RPM

Basic Size No.	Max. Bore			Max. RPM		HP Ratings at Various RPM 1.0 Service Factor									
	TAPER-LOCK	Finished Bore	Reborable	Without Covers	With Covers	350	400	500	600	800	1000	1200	1400	1600	1800
4012	..	3/4	7/8	875	5000	5.10	5.57	6.55	7.56	9.42	11.3	13.1	14.9	16.6	18.2
4016	1-1/8	1-1/8	1-5/16	875	5000	9.04	9.89	11.6	13.4	16.7	20.1	23.0	26.3	29.3	32.7
5012	...	1-1/8	1-1/8	875	...	9.41	10.42	12.2	14.1	17.5	21.0	...	...	...	...
5016	...	1-5/8	1-11/16	800	4000	17.3	18.9	22.3	25.7	32.0	38.3	44.5	50.4	56.2	61.9
5018	1-11/16	...	2	800	4000	22.4	24.5	28.8	33.1	41.4	49.7	56.8	65.1	72.6	80.9
6018	...	2-7/16	2-7/16	675	3000	41.2	44.9	53.0	60.9	75.9	90.7	105.0	120.0	134.0	147.0
6020	2-1/8	...	2-3/4	675	3000	53.2	58.2	68.5	78.8	98.5	118.0	135.0	155.0	173.0	192.0
8018	...	2-7/8	3-1/8	500	2000	91.5	99.8	118.0	135.0	169.0	202.0	234.0	266.0	297.0	326.0
8020	3-1/4	...	3-9/16	500	2000	119.0	130.0	153.0	176.0	220.0	264.0	302.0	346.0	386.0	430.0
10020	3-15/16	...	4-5/8	450	1800	205.0	225.0	265.0	305.0	380.0	454.0	527.0	598.0	667.0	734.0
12018	...	...	4-11/16	400	...	322.0	355.0	...	...	...	...	...	...	...	...
12020	4-7/16	...	...	400	1600	391.0	432.0	510.0	585.0	708.0	877.0	1003.0	1135.0	1273.0	...

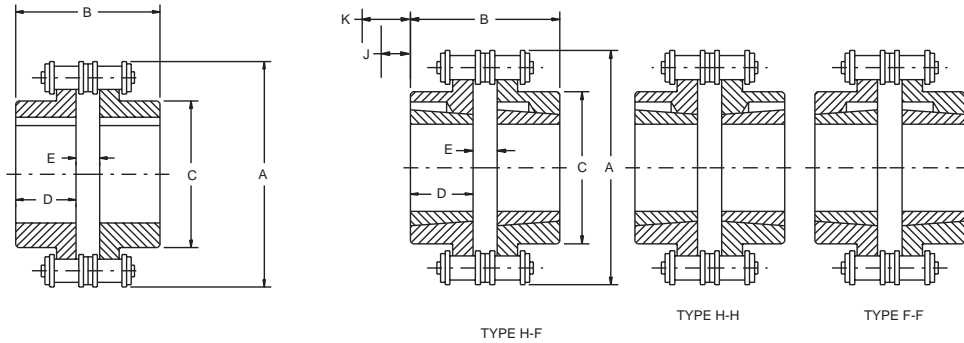


SELECTION/DIMENSIONS



Chain Couplings

STANDARD, STRAIGHT BORE AND TAPER-LOCK -- FLANGES DIMENSIONS, RATINGS



STRAIGHT BORE CHAIN COUPLING

TAPER-LOCK CHAIN COUPLING

RATINGS

Coupling Size	Straight Bore		TAPER-LOCK		Max. RPM		Weight (lbs.) (1)	
	Min.	Max.	Min.	Max.	Without Cover	With Cover	Str.	TL
4012	1/2	7/8	---	---	875	5000	2.2	---
4016	5/8	1-5/16	1/2	1-1/8	875	5000	3.8	2.7
5012	5/8	1-1/8	---	---	875	---	3.1	---
5016	5/8	1-11/16	---	---	800	4000	5.0	---
5018	3/4	2	1/2	1-11/16	800	4000	6.0	6.0
6018	1	2-7/16	---	---	675	3000	9.9	---
6020	1-1/8	2-3/4	1/2	2-1/8	675	3000	12.25	12.7
8018	1-1/8	3-1/8	---	---	500	2000	31.10	---
8020	1-1/2	3-9/16	7/8	3-1/4	500	2000	33.5	31.1
10020	1-1/2	4-5/8	1-3/16	3-15/16	450	1800	80.0	77.9
12018	2	4-11/16	---	---	400	---	110.0	---
12020	---	---	1-7/16	4-7/16	400	1600	---	135.0

DIMENSIONS

Coupling Size	A	B		C	D		E		K (2)	J (3)
		Str.	T-L		Str.	T-L	Str.	T-L		
4012	2.41	2.53	---	1.41	1.13	---	0.28	---	---	---
4016	3.03	2.53	2.04	1.97	1.13	0.88	0.28	0.28	0.75	0.63
5012	3.00	2.88	---	1.75	1.25	---	0.38	---	---	---
5016	3.91	3.25	---	2.50	1.44	---	0.38	---	---	---
5018	4.19	3.75	2.38	2.97	1.69	1.00	0.38	0.38	1.06	0.41
6018	5.00	4.23	---	3.50	1.88	---	0.47	---	---	---
6020	5.50	4.47	2.94	3.88	2.00	1.25	0.47	0.47	1.38	0.94
8018	666	5.35	---	4.56	2.38	---	0.59	---	---	---
8020	7.30	5.85	4.59	5.38	2.63	2.00	0.59	0.59	2.06	1.19
10020	9.13	6.97	7.63	6.72	3.13	3.50	0.72	0.72	2.34	1.31
12018	10.00	7.88	---	6.75	3.50	---	0.86	---	---	---
12020	10.94	---	8.75	7.75	---	4.00	---	0.86	3.38	1.63

(1) Weight of complete coupling with cover at maximum bore (5012 & 12018 are without cover).

(2) Space required to loosen bushing with shortened hex key.



Chain Couplings

TAPER-LOCK, REBORABLE, FINISHED BORE FLANGES - PART NUMBERS

Bore (in.)	Coupling Size											
	4012	4016	5012	5016	5018	6018	6020	8018	8020	10020	12018	12020
Chain Assembly	100480	100490	100489	100481	100491	100482	100492	100483	100493	100495	100497	100496
TL-H	---	• 099049	---	---	• 099053	---	• 099055	---	• 099057	• 099061	---	• 099063
TL-F	---	• 099048	---	---	• 099052	---	• 099054	---	• 099056	• 099060	---	• 099062
Bushing	---	1108	---	---	1610	---	2012	---	3020	3535	---	4040
Reborable	• 099190	• 099151	• 099150	• 099152	• 099161	• 099153	• 099162	• 099154	• 099163	• 099164	• 099226	
Finished Bore Hubs												
1/2"	• 099100											
5/8"	• 099101	• 099138										
3/4"	• 099102	• 099103	• 099132	• 099141	• 099193							
7/8"		• 099104	• 099133	• 099107	• 099194							
15/16"		• 099139	• 099134									
1"		• 099105	• 099135	• 099108	• 099195	• 099142						
1-1/8"		• 099106	• 099136	• 099109	• 099196	• 099143	• 099209	• 099146				
1-3/16"		• 099191		• 099192	• 099197	• 099206						
1-1/4"		• 099140		• 099110	• 099198	• 099115	• 099210					
1-3/8"				• 099111	• 099199	• 099116						
1-7/16"				• 099112	• 099200	• 099117						
1-1/2"				• 099113	• 099201	• 099118	• 099211		• 099219			
1-5/8"				• 099114	• 099202	• 099119						
1-3/4"					• 099203	• 099120	• 099212	• 099147				
1-7/8"					• 099204	• 099121						
1-15/16"					• 099205	• 099122	• 099213	• 099125				
2"						• 099123		099126				
2-1/8"							• 099214	• 099127				
2-3/16"							• 099207		• 099220			
2-1/4"							• 099208					
2-3/8"							• 099144	• 099215	• 099128			
2-7/16"							• 099145	• 099216	• 099129	• 099221		
2-5/8"								• 099217	• 099130			
2-11/16"										• 099222		
2-7/8"									• 099131			
2-15/16"									• 099218	• 099223		
3-1/8												
3-3/8										• 099224		
3-7/16										• 099225		

• Stock Sizes

Complete coupling consists of:

- (2) Hubs, TAPER-LOCK, straight bore, or reborable
- (1) Chain Assy, and
- (1) Cover Assy (if required)

NOTE: For TAPER-LOCK designs, TAPER-LOCK bushings must be ordered separately

FEATURES/BENEFITS PAGE PT1-57	EASY SELECTION PAGE PT1-59	MODIFICATION/ACCESSORIES PAGE PT1-67	ENGINEERING/TECHNICAL PAGE PT1-69
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SELECTION/DIMENSIONS



Chain Couplings

CHAIN COUPLING COVERS

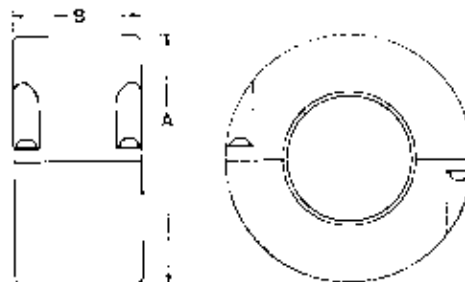
Chain coupling covers are recommended for use when couplings are operating under abrasive or moist conditions, or when coupling speeds exceed the RPM listed in the table below.

Cover should be filled with a roller bearing grease of soft or medium consistency. This provides excellent lubrication and substantially increases coupling life.



Chain Coupling Cover Recommendation

Coupling Size	Cover required when Coupling RPM exceeds this figure
4012	875
4016	875
5016	800
5018	800
6018	675
6020	675
8018	500
8020	500
10020	450
12020	400



Chain Coupling Cover Assemblies ▲



For Coupling Size	Cover Size	Part No.	Wt. (lbs.)	A	B
4012	40	099026	1.0	4.00	2.00
4016					
5016	50	099027	1.3	5.13	2.38
5018					
6018	60	099028	2.6	6.38	2.94
6020					
8018	80	099029	5.1	8.19	4.00
8020					
10020	100	099024	12.2	10.13	5.25
12020	120	099025	19.5	12.25	6.13

▲ Consists of (2) cover halves and screws; (4) seals for cover sizes 4012/4016 thru 8012/8020; (2) seals for cover sizes 10020 and 12020; and (2) cover gaskets.



POLY-DISC

SPECIFICATION

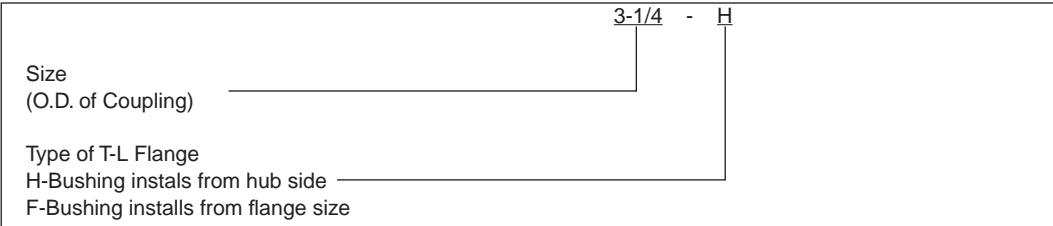
POLY-DISC Couplings are a pin type coupling using a molded polyurethane disc. The physical properties of the disc allow for the cushioning of shock loads and the resistance to most common chemicals such as acids, alkalis and petroleum products. The disc has an operating range of -90°F to +170°F.

The flexible disc is captured through metallic pins, utilizing a light press fit over the pins to prevent the accumulation of abrasive particles between the disc and pins. The pin holes are barreled to allow 2° angular misalignment and the flexible disc allows 1/32" parallel misalignment. The disc has spacer buttons to achieve automatic flange spacing which speeds up installation. Both flanges are machined all over and are taper bored to receive TAPER-LOCK bushings to permit quick and easy installation on shafts of equal or different diameters.

HOW TO ORDER

Consist of:
 (2) TAPER-LOCK Flanges
 (1) Disc

NOMENCLATURE



Other Couplings -

RIGID SPECIFICATION

Rigid Couplings provide a connection between two perfectly aligned shafts. Flanged Rigid Couplings consist of two flanges joined by bolts and taper bored for TAPER-LOCK bushings to connect shafts of the same or different diameters. Ribbed Rigid Couplings are axially split to clamp on shafts of the same diameter and held together by bolts. The coupling uses one key over the entire length and permits quick and easy installation and removal.

HOW TO ORDER

TAPER-LOCK consist of:
 (1) Mail Flange Assembly
 (1) Female Flange

NOMENCLATURE

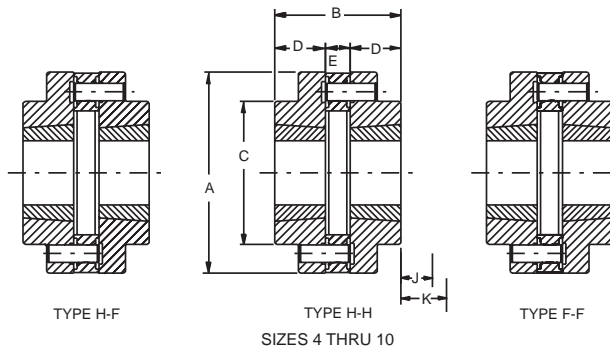
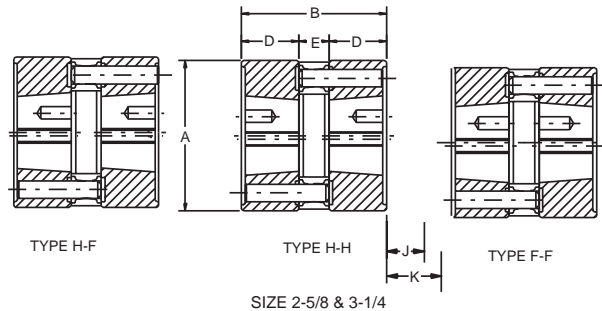




SELECTION/DIMENSIONS



POLY-DISC



Coupling Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In-Lb)	Max. RPM	A	B	C	D	E	J	K	Weight (Lbs.)	Inertia (Lb-Ft ²)	Hole In disc
2-5/8	1008	1/2	1	0.29	180	3600	2.63	2.56	2.63	1.00	0.69	0.63	0.75	2.5	2.3	6
3-1/4	1210	1/2	1-1/4	0.57	360	3600	3.25	2.88	3.25	1.13	0.75	0.81	1.06	4.15	6.2	6
4	1215	1/2	1-1/4	0.95	600	3600	4.00	3.63	2.63	1.50	0.63	0.81	1.06	5.8	10	8
5-1/4	1615	1/2	1-11/16	2.29	1440	3600	5.25	3.75	3.25	1.50	0.75	0.81	1.06	12.1	34.4	8
7	2517	1/2	2-11/16	4.6	2900	3000	7.00	4.38	4.97	1.75	0.88	1.00	1.63	25.9	141.2	10
8	2517	1/2	2-11/16	10	6300	2400	8.00	4.63	5.00	1.75	1.13	1.00	1.63	34.1	246.7	12
10	3030	15/16	3-1/4	17.26	10900	2000	10.00	7.5	6.00	3.00	1.50	1.31	2.69	77.7	866	12

POLY-DISC Part Numbers

Coupling Size	Bushing Size	T-L Flanges (2) Req'd		Disc (1) Req'd
		Type H	Type F	
2-5/8	1008	008057	008058	008030
3-1/4	1210	008059	008060	008031
4	1215	008041	008040	008032
5-1/4	1615	008043	008042	008033
7	2517	008045	008044	008034
8	2517	008047	008046	008035
10	3030	008049	008048	008036

Complete coupling consists of:

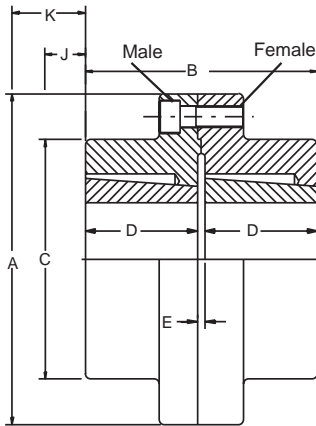
- (2) TAPER-LOCK Flanges (as selected), and
- (1) POLY-DISC Element.

NOTE: TAPER-LOCK bushings ordered separately.

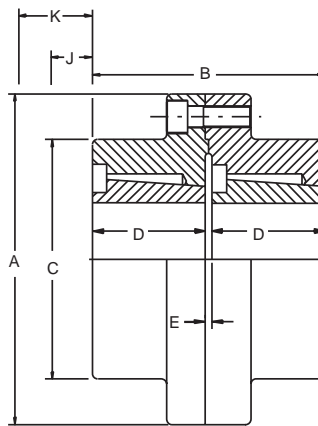




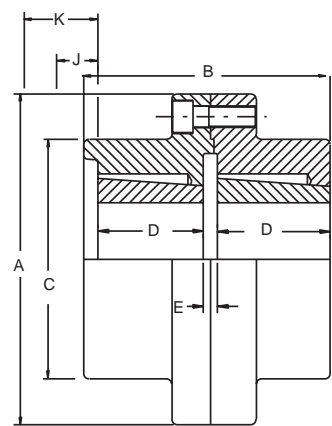
TAPER-LOCK Rigid



R16 TO R30



R35 TO R50



R60

Size	Bushing Size	Min. Bore	Max. Bore	HP/100	Torque (In Lb)**	Max. RPM	A	B	C	D	E	J*	K†	Weight (Lbs.)
R16	1615	1/2	1-11/16	8.0	5,050	4965	5.00	3.25	3.25	1.50	0.25	0.81	1.06	8
R25	2517	1/2	2-11/16	29.2	18,400	3545	7.00	3.75	5.00	1.75	0.25	1.00	1.63	19.1
R30	3030	15/16	3-1/4	50.5	31,800	2920	8.50	6.25	5.75	3.00	0.25	1.19	2.06	38.1
R35	3535	1-3/16	3-15/16	80.0	50,500	2545	9.75	7.25	7.00	3.50	0.25	1.31	2.69	62.2
R40	4040	1-7/16	4-7/16	120	75,500	2115	11.75	8.25	8.50	4.00	0.25	1.63	3.38	105.6
R45	4545	1-15/16	4-15/16	170	107,000	1910	13.00	9.25	9.50	4.50	0.25	1.94	4.06	146.7
R50	5050	2-7/16	5-5/16	233	147,000	1740	14.25	10.25	10.50	5.00	0.25	2.31	4.81	194.4
R60	6050	3-7/16	6	404	254,500	1240	20.00	13.25	16.00	5.00	1.75	1.63	4.38	526.7

* Space required to tighten bushing with shortened hex key in bushings 1615 through 5050. 6050 uses standard wrench. Also space required to loosen screws to permit removal of hub by a puller

† Space required to loosen bushing using screws as jack screws-no puller required. Use shortened hex key for bushing 1615 through 5050. 6050 uses standard wrench

** Ratings are based on uniform, non-reversing type loads. For more severe conditions, consult DODGE†



TAPER-LOCK RIGID PART NUMBERS

Coupling Size	Bushing Size	Male Flange Assy (1) Req'd	Female Flange (1) Req'd
R16	1615	003001	003002
R25	2517	003003	003004
R30	3030	003005	003006
R35	3535	003007	003008
R40	4040	003009	003010
R45	4545	003011	003012
R50	5050	003013	003014
R60	6050	003015	003016

Complete coupling consists of:

- (1) Male Flange Assembly, and
- (1) Female Flange.

NOTE: TAPER-LOCK bushings ordered separately.



SELECTION/DIMENSIONS



Ribbed Rigid



FIG. 1



FIG. 2



FIG. 3



FIG. 4

For Nominal Shaft of:	Style Cplg. Figure no.	Part Number	Max RPM	Torque (In-Lb)	Weight	Coupling Dia x Length	Keyway Size	Key Furnished	Bolts	
									No.	Dia.
1	1	009001	5360	1200	6.0					
1-3/16	1	009002	5360	2000	5.5	3-5/8 x 5-1/4	1/4 x 1/8	1/4 x 1/4 x 5-1/4	4	3/8
1-1/4	1	009903	5360	2300	5.2					
1-3/8	1	009004	4130	3100	11.0	4-5/8 x 6-3/16	5/16 x 5/32	5/16 x 5/16 x 6-3/16	4	1/2
1-7/16	1	009005	4130	3500	10.5					
1-1/2	1	009006	4130	4000	10.2	4-5/8 x 6-3/16	3/8 x 3/16	3/8 x 3/8 x 6-3/16	4	1/2
1-11/16	1	009007	3965	5700	13.7					
1-3/4	1	009008	3965	6300	13.3	4-13/16 x 7-1/16	3/8 x 3/16	3/8 x 3/8 x 7-1/16	4	1/2
1-7/8		009009	3635	7800	19.4					
1-15/16	★	009010	3635	8600	20.6	5-1/4 x 7-15/16	1/2 x 1/4	1/2 x 1/2 x 7-15/16	4	1/2
2		009011	3635	9400	20.0					
2-3/16		009013	3180	12400	29.1					
2-1/4	★	009012	3180	13400	29.0	6 x 8-5/8	1/2 x 1/4	1/2 x 1/2 x 8-5/8	4	5/8
2-7/16	2	009015	2965	17100	37.3					
2-1/2	2	009016	2965	18400	36.6	6-7/16 x 9-11/16	5/8 x 5/16	5/8 x 5/8 x 9-11/16	6	5/8
2-11/16	2	009017	2830	22900	43.4					
2-3/4	2	009014	2830	24500	43.0	6-3/4 x 10-9/16	5/8 x 5/16	5/8 x 5/8 x 10-9/16	6	5/8
2-15/16	2	009019	2545	29900	58.7					
3	2	009020*	2545	31800	56.2	7-1/2 x 11-3/8	3/4 x 3/8	3/4 x 3/4 x 11-3/8	6	3/4
3-3/16	2	009022	2315	38200	80.5	8-1/4 x 12-1/4	3/4 x 3/8	3/4 x 3/4 x 12-1/4	6	7/8
3-1/4	2	009021*	2315	40500	80.0	8-1/4 x 12-1/4	3/4 x 3/8	3/4 x 3/4 x 12-1/4	6	7/8
3-7/16	2	009023	2165	47900	94.6	8-13/16 x 13-3/16	7/8 x 7/16	7/8 x 7/8 x 13-3/16	6	7/8
3-1/2	2	009024*	2165	50500	94.0	8-13/16 x 13-3/16	7/8 x 7/16	7/8 x 7/8 x 13-3/16	6	7/8
3-15/16	2	009025	1900	72000	146.6	10-1/16 x 15-1/4	1 x 1/2	1 x 1 x 15-1/4	6	1
4	2	009027*	1900	75400	146.0	10-1/16 x 15-1/4	1 x 1/2	1 x 1 x 15-1/4	6	1
4-7/16	3	009026	1775	103000	215.0	10-3/4 x 18-3/16	1 x 1/2	1 x 1 x 18-3/16	6	1-1/8
4-1/2	3	009031*	1775	107400	214.4	10-3/4 x 18-3/16	1 x 1/2	1 x 1 x 18-3/16	6	1-1/8
4-15/16	3	009028	1625	142000	276.3	11-3/4 x 19-5/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 19-5/8	6	1-1/8
5	3	009043*	1625	147500	275.6	11-3/4 x 19-5/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 19-5/8	6	1-1/8
5-7/16	4	009029	1390	190000	426.2	13-3/4 x 20-3/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 20-3/8	8	1-1/8
5-1/2	4	009050*	1390	196000	425.4	13-3/4 x 20-3/8	1-1/4 x 5/8	1-1/4 x 1-1/4 x 20-3/8	8	1-1/8
5-15/16	3	009042*	1365	247000	426.0	14 x 20-3/4	1-1/2 x 3/4	1-1/2 x 1-1/2 x 20-3/4	6	1-1/4
6	3	009054*	1365	255000	425.3	14 x 20-3/4	1-1/2 x 3/4	1-1/2 x 1-1/2 x 20-3/4	6	1-1/4
7	4	009044*	1230	404000	560.8	15-1/2 x 21-15/16	1-3/4 x 3/4	1-3/4 x 1-1/2 x 21-15/16	8	1-1/4

★ Same as Fig. 1 except with a rib parallel to the bore between each pair of flanges

* Standard non-stock size. Consult DODGE for delivery

Note: Coupled shafts must be the same diameters



PARA-FLEX Elements - Part Numbers

Element Size	Standard	Neoprene (1)	Cordless (2)	Weight (Lbs)
	Part No.	Part No.	Part No.	
PX40	011529	012455	012456	0.3
PX50	011105	011296	011285	0.7
PX60	011106	011297	011286	1.2
PX70	011107	011298	011287	1.6
PX80	011108	011299	011288	2.2
PX90	011109	011300	011289	2.6
PX100	011110	011301	011290	2.5
PX110	011111	011302	---	3.0
PX120	011112	011303	011292	4.8
PX140	011114	011304	---	5.6
PX160	011117	011305	---	9.1
PX200	011120	011306	---	20.8
PX240	011124	011312	---	27.0
PX280	011457	011313	---	45.0
PX320	011463	011315	---	80.0

High Speed/Flywheel Elements			
Element Size	Standard-Part No.	Neoprene Part No. (1)	Weight (lbs)
PH87	011227	011266	1.20
PH96	011228	011267	1.80
PH116	011230	011268	2.00
PH131	011231	011269	3.50
PH172	011234	011280	7.50
PH192	011236	011271	9.30
PH213	011239	011272	13.90
PH252	011242	011273	27.00

(1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)

- (1) Neoprene element ratings are the same as the standard natural rubber element ratings. (Green sticker or painted mark)
- (2) Cordless elements have an average static torsional stiffness 25% of the standard element and approximately 25% of the torque rating. (White sticker or painted mark)

Elastomer Compatibility

Ratings: 1-Minor Effect 2-Moderate Effect 3-Severe Effect nd-No Data

Substance	Nat. Rubber	Neo-prene	EPDM	Hytrel	Substance	Nat. Rubber	Neo-prene	EPDM	Hytrel
Acetic Acids	2	1	1	1	Hydrobromic Acid (40%)	1	2	1	nd
Acetic Anhydride	2	1	2	nd	Kerosene	3	2	3	nd
Alcohols, Monohydric	2	1	2	nd	Lacquers	3	3	3	2
Ammonia Anhydrous	3	1	1	nd	Lead Sulfamate	2	1	1	nd
ASTM A Oils	3	1	1	1	Mineral Oil	3	2	2	1
Animal Fats	3	2	2	nd	Naphtha	3	2	3	1
Benzene	3	3	3	2	Nickel Chloride	1	2	1	nd
Carbonic Acid	3	2	2	nd	Nitric Acid (10%)	1	2	2	2
Calcium Bisulfite	2	1	3	nd	Ozone	3	2	1	nd
Chloracetone	2	2	1	2	Petroleum (<250°F)	3	2	3	nd
Chloroacetic Acid	2	1	1	nd	Potassium Dichromate	2	1	1	nd
Copper Sulphate	2	1	1	1	Salt Water	1	2	1	1
Corn Oil	2	2	2	nd	Silicone Oils	1	1	1	1
Diesel Oil	3	2	3	1	Sulfuric Acid (Conc.)	3	3	3	3
Fuel Oil	3	2	3	1	Vinegar	2	1	1	nd
Gasoline	2	2	3	1	Zinc Sulfate	2	1	1	nd

D-FLEX COUPLINGS PAGE PT1-2	PARA-FLEX COUPLINGS PAGE PT1-14	GRID-LIGN COUPLINGS PAGE PT1-42	CHAIN COUPLINGS PAGE PT1-57
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MODIFICATIONS/ ACCESSORIES



GRID-LIGN Replacement Grids, Covers, and Seals - Part Numbers

Coupling Size	Grid	T10 Cover Assembly	T10 Seal Kit	T20 Cover Assembly	T20 Seal Kit
1020T	006275	006250	006805	006260	006815
1030T	006276	006251	006806	006261	006816
1040T	006277	006252	006807	006262	006817
1050T	006278	006253	006808	006263	006818
1060T	006279	006254	006809	006264	006819
1070T	006280	006255	006810	006265	006820
1080T	006281	006256	006811	006266	006821
1090T	006282	006257	006812	006267	006822
1100T	006283	006258	006813	006268	006823
1110T	006284	006259	006814	006269	006824

Chain Coupling: Chain Assemblies And Covers - Part Numbers

Coupling Size	Chain Assembly	Chain Assembly Weight (Lbs.)	Cover Assembly (1)	Cover Assembly Weight (Lbs.)
4012	100480	.4	099026	1.0
4016	100490	.6	099026	1.0
5012	100489	.9	N/A	N/A
5016	100481	1.4	099027	1.3
5018	100491	1.4	099027	1.3
6018	100482	2.7	099028	2.6
6020	100492	2.7	099028	2.6
8018	100483	6.1	099029	5.1
8020	100493	6.1	099029	5.1
10020	100495	11.0	099024	12.2
12018	100497	20.0	N/A	N/A
12020	100496	20.0	099025	19.5

(1) Cover assemblies consist of cover halves, screws, seals, and cover gaskets.

PARA-FLEX Nickel Plated Screws

Flange Assembly Size	Screw Size (2)	Part Number	Number per Flange (3)
PX70, PX80	5/16-18X1-1/2	411767	5, 6
PX90, PX100	3/8-16X1-3/4	411768	6
PX120	1/2-13X2	411770	6
PX140	1/2-13X2-1/4	411771	8

(2) Nickel plated Grade 8 hex head cap screws. Screws not available from stock for PX140 with iron flanges. For sizes not listed, contact DODGE.

(3) 5 required for PX70; 6 for PX80.



Selection Methods:

D-Flex, PARA-FLEX, GRID-LIGN, GEAR, POLY-DISC, & Rigid Couplings

HP/100 METHOD

Step 1: Obtain required service factor from Service Factor Tables on pages PT1-70 and PT1-71.

Step 2: Determine the application HP per 100 RPM:

$$\text{HP} / 100 \text{ RPM} = \frac{\text{Motor HP} \times 100 \times \text{Service Factor}}{\text{Coupling RPM}}$$

Step 3: From Rating Tables, find a rating equal to or greater than the HP/100 RPM. Note coupling size from lefthand column.

Step 4: Check maximum RPM capability.

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

NOTE: If spring set motor brake is used, and brake HP is greater than prime mover, use brake HP in place of motor HP.

TORQUE METHOD:

Step 1: Obtain required service factor from Service Factor Tables on pages PT1-70 and PT1-71

Step 2: Determine torque required for application.

$$\text{Torque (In - lbs)} = \frac{63025 \times \text{HP} \times \text{SF}}{\text{Coupling RPM}}$$

Step 3: From Rating Tables, find a rating equal to or greater than the torque. Note coupling size from lefthand column.

Step 4: Check maximum RPM capability

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded

NOTE: If system peak torque is known and is non-reversing, start at Step 3. If system peak torque is known and reversing, multiply by 2.0 and start at Step 3

CHAIN COUPLINGS

DESIGN HP METHOD:

Step1: Obtain required service factor from Service Factory Tables on pages PT1-70 and PT1-71

Step 2: Determine application HP:
HP Design = HP x SF

Step 3: From rating tables, select appropriate coupling RPM column and find a rating equal to or greater than HP design. Note coupling size from left hand column.

Step 4: Check maximum RPM capability

Step 5: Check maximum bore capacity. If maximum bore is exceeded, move to larger size with adequate bore-but be sure maximum RPM of coupling is not exceeded.





ENGINEERING/ TECHNICAL



Service Factors

Table 1

FACTOR Δ

APPLICATION (READ FOOTNOTES)	PARA - FLEX/ POLY- DISC	GRID CHAIN RIGID	D-FLEX	GEAR
AGITATORS				
Paddle or Propeller (Vert. or Horiz.)	1.00	1.00	1.25	1.00
Screw	1.00	1.00	1.25	1.00
BLOWERS				
Centrifugal	1.00	1.00	1.25	1.00
Lobe	1.50	1.25	1.50	1.25
Vane	1.00	1.25	1.25	1.25
BREWING & DISTILLING				
Bottling Machinery, Brew Kettle, Cooker (Continuous Duty), Mash Tub	1.00	1.00	1.25	1.00
Scale Hopper-Frequent Starting Peaks	1.50	1.75	◆	1.75
CAN FILLING MACHINE	1.00	1.00	1.25	1.00
CAR DUMPER	1.50	2.50	2.00	2.50
CAR PULLER	1.50	1.50	1.50	1.50
CLARIFIER	1.00	1.00	1.25	1.00
CLASSIFIER	1.00	1.00	1.25	1.00
CLAY-WORKING MACHINES				
Brick Press, Briquette Mach., Clay Working Mach., Pug Mill	1.50	1.50	1.50	1.75
COMPRESSORS**				
Centrifugal, Lobe, Screw	1.00	1.00	1.25	1.00
Lobe, Rotary	2.00	1.25	2.00	1.25
Reciprocating				
1 cylinder - single acting	3.50	3.00	◆	3.00
1 cylinder - double acting	3.00	3.00	◆	3.00
2 cylinder - single acting	3.00	3.00	◆	3.00
2 cylinder - double acting	2.50	3.00	◆	3.00
3 cl. or more - single acting	2.50	3.00	◆	3.00
3 cl. or more - double acting	2.00	2.00	◆	2.00
CONVEYORS				
Apron, Assembly, Belt, Chain, Flight, Oven	1.00	1.00	1.25	1.00
Reciprocating	2.50	3.00	◆	3.00
Screw	1.00	1.00	1.25	1.00
CRANES AND HOISTS				
Main Hoist-Medium Duty	1.50	1.75	1.50	1.75
Main Hoist-Heavy Duty	2.00	2.00	2.00	2.00
Skip Hoist, Travel Motion, Trolley Motion, Slope	1.50	1.75	1.00	1.75
CRUSHERS				
Cane	2.00	2.00	2.00	2.00
Gyratory	2.50	2.50	◆	2.50
DREDGES				
Cable Reel, Screen Drive, Stacker	1.50	1.75	1.50	1.75
Conveyor	1.50	1.75	1.50	1.25
Cutter Head Drive, Jig Drive	2.50	2.00	2.00	2.00
Pump, Utility Winch	1.50	1.75	1.50	1.50
DYNAMOMETER	1.00	1.00	1.25	1.00
ELEVATORS				
Bucket, Freight	2.00	1.25	2.00	1.25
EXCITER	1.00	1.00	1.25	1.00
FANS				
Centrifugal	1.00	1.00	1.25	1.00
Cooling Tower	2.00	2.00	2.00	2.00
Heavy Duty (Forced Draft) and Induced Draft	1.50	1.50	2.00	1.50
Light	1.00	1.00	1.25	1.00
Propeller Indoor	1.50	1.50	2.00	1.50
FOOD INDUSTRY				
Beet Slicer	1.50	1.75	1.50	1.75
Cereal Cooker	1.00	1.25	1.25	1.25
Dough Mixer, Meat Grinder	1.50	1.75	1.50	1.75

FACTOR Δ

APPLICATION (READ FOOTNOTES)	PARA - FLEX/ POLY- DISC	GRID CHAIN RIGID	D-FLEX	GEAR
GENERATORS				
Even Load	1.00	1.00	1.25	1.00
Hoist or Railway Service	1.50	1.50	1.50	1.50
Welder Load	2.00	2.00	2.00	2.00
GRIZZLY	2.00	2.00	2.00	2.00
KILN	2.00	2.00	2.00	2.00
LAUNDRY MACHINES				
Tumbler Washer	2.00	2.00	2.00	2.00
LINE SHAFTS				
Driving Processing Machinery	1.00	1.50	1.25	1.50
Light	1.00	1.50	1.25	1.50
LUMBER INDUSTRY				
Band Resaw	1.50	1.50	1.50	1.50
Circular Resaw	1.50	1.50	1.50	1.75
Edger Head Rig, Hog, Log Haul	2.00	2.00	2.00	2.00
Planer	1.50	1.75	1.50	1.75
Rolls Non-Reversing	1.50	1.25	1.50	1.25
Rolls Reversing	2.00	2.00	2.00	2.00
Sawdust Conveyor	1.00	1.25	1.25	1.25
Slab Conveyor	1.50	1.75	1.50	1.75
Sorting Table	1.50	1.75	1.50	1.50
MACHINE TOOLS				
Auxiliary	1.00	1.00	1.25	1.00
Main Drive	1.50	1.75	1.50	1.50
Notching Press, Planer (Reversing), Plate Planer, Punch Press	1.50	1.75	1.50	1.75
Traverse	1.00	1.00	1.25	1.00
METAL FORMING MACHINES				
Draw Bench, Carriage, Main Drive, Extruder	2.00	2.00	1.50	2.00
Wire Drawing, Flattening Machine	2.00	2.00	1.50	1.75
MILLS Rotary Type				
Ball or Pebble direct or on LS Shaft Gear Reducer	2.50	2.00	2.00	2.00
on HS Shaft Gear Reducer	2.50	2.00	2.00	2.00
Dryer and Cooler	1.50	1.75	1.50	1.75
Rod or Tube direct or on LS Shaft Gear Reducer	2.50	2.00	2.00	2.00
on HS Shaft Gear Reducer	2.50	2.00	2.00	2.00
on HS Shaft Gear Reducer	2.00	1.50	1.50	1.50
Tumbling Barrel	1.50	1.75	2.00	1.75
MIXERS				
Concrete (Continuous or intermittent)	1.50	1.75	1.50	1.75
Muller-Simpson type	1.50	1.75	1.50	1.50
OIL INDUSTRY				
Chiller	1.00	1.25	1.25	1.25
Oil Well Pumping (Not over 150% peak torque)	2.00	2.00	2.00	2.00
Paraffin Filter Press	1.50	1.50	1.50	1.50
PAPER MILLS				
Agitator	1.00	2.00	1.25	2.00
Barking Drum	2.50	2.50	2.00	2.50
Beater and Pulper	1.50	1.75	1.50	1.75
Bleacher	1.00	1.00	1.25	1.00
Calender	2.00	1.75	2.00	1.75
Chipper	3.00	2.50	2.00	2.50
Couch Cylinder Dryer	1.50	1.75	1.50	1.75
Felt Stretcher	1.00	1.25	1.25	1.25
Fourdrinier	1.50	1.75	1.50	1.75
Jordan	2.00	2.00	2.00	2.00
Press	2.00	1.75	1.50	1.75
Pulp Grinder	2.00	1.75	2.00	1.75
Stock Chest	1.50	1.50	1.50	1.50
Stock Pump				
Reciprocating	2.00	2.00	◆	2.00
Rotary	1.50	1.50	1.50	1.50
Suction Roll	2.00	1.75	1.50	1.75
Winder	1.50	1.50	1.50	1.50



Service Factors

Table 1 (cont)

APPLICATION (READ FOOTNOTES)	FACTOR Δ			
	PARA-FLEX/ POLY-DISC	GRID CHAIN RIGID	D-FLEX	GEAR
PARAFFIN FILTER PRESS	1.50	1.50	1.50	1.50
PRINTING PRESS	1.50	1.50	1.50	1.50
PROPELLER Marine	1.50	1.50	◆	1.50
PULLERS				
Barge Hall	2.50	2.00	2.00	1.50
PULVERIZERS				
Hammermill-Light Duty	1.50	1.50	1.50	1.50
Hammermill-Heavy Duty	2.00	1.75	2.00	1.75
Hog	2.00	1.75	2.00	1.75
Roller	1.50	1.50	1.50	1.50
PUMPS				
For Stock Pumps See Paper Mills				
Centrifugal	1.00	1.00	1.25	1.00
Descaling Gear Type	1.50	1.25	1.50	1.25
Oil Well Pumping (Not over 150% peak torque)	2.00	2.00	2.00	2.00
Rotary -other than ear	1.50	1.25	1.50	1.25
Reciprocating				
1 cylinder-single acting	2.50	3.00	◆	3.00
1 cylinder-double acting	2.00	3.00	◆	3.00
2 cylinder-single acting	2.00	2.00	◆	2.00
2 cylinder-double acting	1.50	1.75	◆	1.75
3 cylinder or more	1.50	1.50	◆	1.50
RUBBER INDUSTRY				
Banbury Mixer	2.50	2.50	2.00	2.50
Calender	2.00	2.00	2.00	2.00
Cracker Mixing Mill Plasticator	2.50	2.50	2.00	2.50
Refiner, Sheeter, Tire-Building Machine	2.00	2.50	2.00	2.50
Tire and Tube Press Opener Based on Peak Torque	1.00	1.00	1.25	1.00
Tuber and Strainer	1.50	1.75	1.50	1.75
Warming Mill	2.00	2.00	2.00	2.00
Washer	2.50	2.50	2.00	2.50

SYSTEM SERVICE FACTOR CALCULATION

To determine the system service factor, the driver service factor adder (Table 1A) must be added to the driven service factor. (Table 1) Example: Determine the system service factor for a PARA-FLEX coupling used to couple a barking drum and a six-cylinder diesel engine.

$$\text{Driven S.F.} + \text{Driver S.F. Adder} = \text{System S.F.}$$

$$2.5 + .5 = 3.0$$

Δ The service factors listed are intended only as a general guide. Where substantial shock occurs or starting and stopping is frequent as on some "inching" drives and on some reversing drives or where the power source is an internal combustion engine with less than four cylinders-Consult DODGE. Where torsional vibrations occur as in,

APPLICATION (READ FOOTNOTES)	FACTOR Δ			
	PARA-FLEX/ POLY-DISC	GRID CHAIN RIGID	D-FLEX	GEAR
SCREENS				
Air Washing	1.00	1.00	1.25	1.00
Coal and Sand Rotary	1.50	1.50	1.50	1.50
Vibrating	2.50	2.50	2.00	2.50
Water	1.00	1.00	1.25	1.00
SEWAGE DISPOSAL EQUIPMENT	1.00	1.00	1.25	1.00
SHOVEL	2.00	2.00	2.00	2.00
SHREDDER	1.50	1.50	1.50	1.50
STEEL INDUSTRY				
Cold Mills				
Coiler up or down	1.50	2.00	◆	1.50
Strip, Temper	2.00	2.00	◆	2.00
Hot Mills				
Coiler up or down, Edger Drive	1.50	2.00	◆	1.50
Feed Roll Blooming	3.00	2.50	◆	3.00
Roughing Mill Delivery	3.00	2.50	◆	2.50
Non-reversing, Sheet Strip	3.00	2.50	◆	2.50
Rod Mill	2.50	2.50	◆	2.00
Soaking Pit Cover Drive Lift	3.00	1.50	◆	1.00
Soaking Pit Cover Drive Travel	3.00	1.50	◆	2.00
STEERING GEAR	1.00	1.00	1.25	1.00
STOKER		1.00	1.25	1.00
TEXTILE MILLS				
Batcher	1.00	1.25	1.25	1.25
"Calender, Card Machine, D Can"	1.50	1.50	1.50	1.50
Dyeing Machine	1.00	1.25	1.25	1.25
Loom	1.50	1.50	1.50	1.50
Mangel, Napper, Soaper	1.00	1.25	1.25	1.25
Spinner, Tenter Frame	1.50	1.50	1.50	1.50
WINDLASS	1.50	1.50	1.50	1.50
WOODWORKING MACHINES	1.00	1.00	1.25	1.00

for example, internal combustion engine or reciprocating compressor or pump applications, check the coupling stiffness for the possible development of damaging large-amplitude vibrations. A complete system torsional analysis may be necessary.

** Add 0.5 to factor if without flywheel

◆ CONSULT DODGE FOR SELECTION ASSISTANCE

Table 1A-Driver Service Factor Adders

Type of Coupling	Electric Motor Std. Torque	High TorqueMotors	Turbines	Reciprocating Engine Number of Cylinders				
				12 or More	8 to 11	6 to 7	4 to 5	Less than 4
PARA-FLEX	0.00	0.00	0.00	0.00	0.50	0.50	0.50	◆
METALLIC	0.00	0.00	0.00	0.00	0.50	0.50	1.00	◆
D-FLEX	0.00	IF SF < 1.25 ADD 0.25 IF SF > 1.25 ADD 0.5	IF SF < 1.5 SUBTRACT 0.25 IF SF > 1.5 SUBTRACT 0.5		IF SF < 1.25 ADD 0.25 IF SF > 1.25 ADD 0.5			◆ ◆





COMPARATIVE TABLE

Coupling Type	Misalignment		End Float
	Angular	Parallel	
PARA-FLEX(PX, PS) (1) (2)	4°	.125"	± 0.156"
PARA-FLEX(PH, PF)	1°	0.0625"	± 0.094"
GRID-LIGN	1/2°	0.012"	0.375"
CHAIN	2°	.015"	0.300"
POLY-DISC	2°	0.032"	
NYLIGN	1-1/2°	0.022"	± 0.125"

(1) PX40 is 4° Angular / .06" Parallel/ ±.094" End Float

(2) PX110 is 4° Angular/1.25" Parallel/±.125" End Float

TEMPERATURE RANGE

Coupling Type	°F
PARA-FLEX PX, PS	-45°F (1) to +180°F(1)
PH, PF	-45°F (1) to +180°F(1)
D-FLEX EPDM	-30°F to +275°F
NEOPRENE	0°F to +200°F
HYTREL	-65°F to +250°F
GRID-LIGN	-35°F to +210°F
CHAIN	-30°F to +225°F
GEAR	-30°F to +250°F
POLY-DISC	-90°F to +170°F
NYLIGN	0°F to +170°F

(1) -40°F to +210°F for neoprene element.

D-FLEX MISALIGNMENT (1)

Size	Types JE, JN, E & N			Types H & HS (4)		
	Parallel (1)	Angular (2)	End Float (3)	Parallel (1)	Angular (2)	End Float (3)
3	0.010	1°	± 0.030	-	-	-
4	0.010	1°	± 0.030	-	-	-
5	0.015	1°	± 0.046	-	-	-
6	0.015	1°	± 0.060	.010	1/4°	± 0.060
7	0.020	1°	± 0.060	.012	1/4°	± 0.060
8	0.020	1°	± 0.096	.015	1/4°	± 0.096
9	0.025	1°	± 0.096	.017	1/4°	± 0.096
10	0.025	1°	± 0.125	.020	1/4°	± 0.125
11	0.032	1°	± 0.125	.022	1/4°	± 0.125
12	0.032	1°	± 0.125	.025	1/4°	± 0.125
13	0.040	1°	± 0.125	.030	1/4°	± 0.125
14	0.045	1°	± 0.125	.035	1/4°	± 0.125
16	0.062	1°	± 0.125	-	1/4°	-

NOTE: (1) All dimensions are in inches

(2) Values are for when 1/4 or more of the rated torque is transmitted.
Reduce values by 50% for lower torques

(3) Increase E dimension by this amount to accommodate end float.

(4) Types H & HS should not be used as direct replacements for EPDM or Neoprene sleeves





PARA-FLEX COUPLINGS BOLT TORQUE INFORMATION

Size	Standard				
	Clamp Ring Bolts (5) Torque (In.-Lbs.)			PS Shaft Hub Bolts (3)	
	No.	2-Piece Assy	3-Piece Assy	No.	Torque (In.-Lbs.)
PX40	4	130	130	4	130
PX50	5	130	130	4	180
PX60	5	290	290	5	180
PX70	5	290	290	5	180
PX80	6	290	290	5	300
PX90	6	480	480	6	300
PX100	6	480	480	6	300
PX110	6	480	480	6	300
PX120	6	1080	1080	6	720
PX140	8	1080	1080	5	720
PX160 (2)	8	2160	1150	6	1296
PX200	12	2160	2400	8	1296
PX240	12	3600	4020	-	-
PX280	14	4320	6600	-	-
PX320	16	4320	6600	-	-

(2) PX160 steel flanges have 10 clamp ring bolts

(3) SAE Grade 8

(5) SAE Grade 8. FB style couplings utilize class 10.9 metric clamping ring bolts

PARA-FLEX HIGH SPEED & FLYWHEEL BOLT TORQUE INFORMATION

Size	For Flange (3)		For Bolt Ring (3)
	Iron Fig.	Steel Fig.	
87	290	290	180
96	290	290	300
116	480	480	360
131	480	480	420
172	1080	1150	600
192	2160	1150	780
213	2160	2160	840
252	3600	3600	2880

(3) SAE Grade 8

TORSIONAL STIFFNESS

PARA-FLEX		HIGH SPEED PARA-FLEX	
Size	In-Lbs/Degree (4)	Size	In-Lbs/Degree (4)
PX40	120	PH 87	1000
PX50	224	PH 96	1190
PX60	414	PH 116	2182
PX70	544	PH 131	2566
PX80	876	PH 172	6737
PX90	1088	PH 192	13893
PX100	1530	PH 213	23143
PX110	2420	PH 252	39008
PX120	4014		
PX140	8296		
PX160	12,000		
PX200	29,000		
PX240	48,000		
PX280	98,000		
PX320	151,000		

(4) Values are nominal and may vary +/- 20%. To convert static values to approximate dynamic values, multiply the static values by 1.2

D-FLEX TORSIONAL STIFFNESS*

Size	EPDM & Neoprene (In-Lbs/radian)	Hytrel (In-Lbs/radian)
3	229	-
4	458	-
5	916	-
6	1,718	10,000
7	2,769	20,000
8	4,335	30,000
9	6,875	47,500
10	10,980	100,000
11	17,300	125,000
12	27,500	225,000
13	43,350	368,900
14	68,775	593,250
16	180,480	-

* Values shown are for an ambient temperature of 75°F

D-FLEX SPACER BOLT TORQUES

Size	Shaft Hub Bolts (1)	
	Number	Torque Ft-Lbs
5SCH	4	4
6SCH	4	9
7SCH	4	9
8SCH	4	18
9SCH	4	31
10SCH	4	50
11SCH	4	75
12SCH	4	150
13SCH	4	150
14SCH	4	150

(1) SAE Grade 8





ENGINEERING/ TECHNICAL



AGMA CLASS 1 FITS

Nom. Shaft Diameter (In.)	Bore Dimensions			
	Clearance		Interference	
	Nom. Shaft Dia. Less	Bore Tolerance	Nom. Shaft Dia. Less	Bore Tolerance
0 - 1-1/2	.000	+ .001 - .000	.001	+ .0005 - .000
1-1/2 - 2	.000	+ .001 - .000	.002	+ .001 - .000
2 - 3	.000	+ .0015 - .000	.002	+ .0015 - .000
3 - 4	.000	+ .0015 - .000	.003	+ .0015 - .000
4 - 5	.000	+ .002 - .000	.0035	+ .0015 - .000
5 - 6	.000	+ .002 - .000	.004	+ .0015 - .000

STANDARD KEYWAYS

Keyway Bore Size			Width	For Sq. Key	For Rec. Key
7/16	-	9/16	3/32	3/64	...
1/2	-	7/8	1/8	1/16	...
5/8	-	1-1/4	3/16	3/32	...
15/16	-	1-1/4	1/4	1/8	...
1-5/16	-	1-3/8	5/16	5/32	...
1-7/16	-	1-3/4	3/8	3/16	1/8
1-13/16	-	2-1/4	1/2	1/4	3/16
2-5/16	-	2-3/4	5/8	5/16	7/32
2-13/16	-	3-1/4	3/4	3/8	1/4
3-5/16	-	3-3/4	7/8	7/16	5/16
3-13/16	-	4-1/2	1	1/2	3/8
4-9/16	-	5-1/2	1-1/4	5/8	7/16

METRIC BORE STANDARD

MM Bore	MM Keyway Width	MM Hub Keyseat	MM Key
14	5	2.3	5x5
16	5	2.3	5x5
18	6	2.8	6X6
19	6	2.8	6X6
20	6	2.8	6X6
22	6	2.8	6X6
24	8	3.3	8X7
25	8	3.3	8X7
28	8	3.3	8X7
30	8	3.3	8X7
32	10	3.3	10X8
35	10	3.3	10X8
38	10	3.3	10X8
40	12	3.3	12X8
42	12	3.3	12X8
45	14	3.8	14X9
48	14	3.8	14X9
50	14	3.8	14X9
55	16	4.3	16X10
60	18	4.4	18X11
65	18	4.4	18X11
70 & 75	20	4.9	20X12
80 & 85	22	5.4	22X14
90	25	5.4	25X14
95	25	5.4	25X14
100	28	6.4	28X16

MM bore and keyway conform to ISO standard recommendation R773, for "FREE" fit



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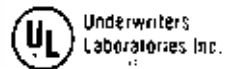
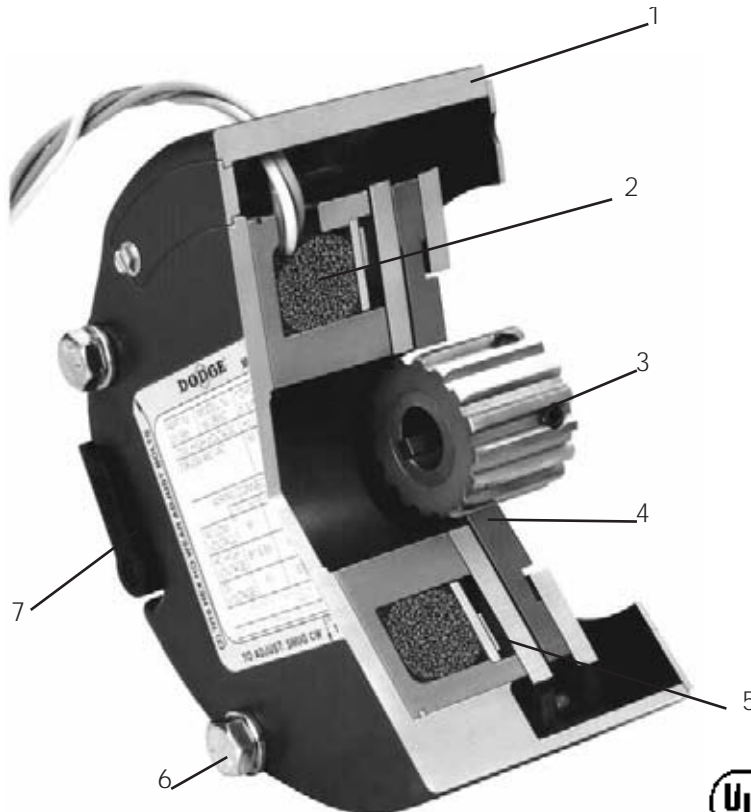
NOTES





Motor Brakes

1. Rugged, die-cast aluminum housing mounts at any angle without modification.
2. Internally rectified DC voltage coil operates on either AC or DC voltage. Class B insulation is standard.
3. Splined hub permits uniform load distribution. Integral key design simplifies installation - no loose parts.
4. Single, non-asbestos friction disc design extends life, reduces replacement parts and allows quiet operation (1)
5. Wave spring provides 360° of force when power is removed from the brake.
6. Industry standard NEMA C-face mounting. Interchanges easily with competitive units.
7. Easy-to-use, reliable manual release levers reset automatically.



(1) 35 & 50 ft. lb. motor brakes employ two friction discs and can be mounted at any angle without modification



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Motor Brakes

SPECIFICATION

D-Series Motor Brakes are designed with a single* non-asbestos friction disc for fewer adjustments, reduced replacement parts, and extended life. They are released when power is applied to the brake coil. The friction disc hub assembly and ultimately the load are free to turn. However, when power is taken away, intentionally or accidentally, an internal wave spring clamps the friction disc to stop and hold the load. The single* disc design has significantly fewer parts than competitive brakes and provides a dramatic improvement in brake friction disc life. Just as dramatic is the quiet operation compared to solenoid type brakes. DODGE D-Series motor brakes are available as stock off-the-shelf units in 2 configurations. DBSC C-Face brakes mount on the fan end (non-driving end) of a motor. DBSS double C-Face brakes are generally used as a coupler between standard C-Face motors and C-Face gear reducers.

* 35/50 ft.-lb motor brakes employ two friction discs

HOW TO ORDER

Motor Brakes are ordered by specifying the unit size, the motor frame size, and the voltage. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

NOMENCLATURE

	56	DBSS	-	3	-	MA	-	115/230 VAC	60 HZ
NEMA C-Face Designation _____	56 = 56C (5/8" shaft) 140 = 143TC/145TC (7/8" shaft) 180 = 180TC/210TC (1-1/8" shaft)								
DODGE Brakes _____									
Housing Enclosure _____	S = Standard Enclosure/Drip-Proof E = E-Z KLEEN (Food Duty/NEMA 4X)								
Mounting Configuration _____	C = C-face (single)/Fan End Mounting S = Shaft-out (Double C-Face) Coupler								
Static Torque Rating (Ft.-Lbs) _____									
Wear Adjustment Method _____	MA = Manually Adjusted								
Coil Voltage _____	115/230 VAC 230/460 FVAC Others As Noted On Brake Label								
Frequency _____	60 Hz 50 Hz Blank If DC Voltage Only								



Motor Brakes

Selection Procedure

1. Determine the motor frame size, horsepower and speed.
2. Use chart for brake static torque selection. Note that chart selections are based on a **1.4 service factor** and increased to the next highest standard brake torque rating. To select a brake using a different service factor, use the formula below to determine the required brake static torque.

$$T = \frac{HP \times 5252 \times SF}{RPM}$$

T = Brake Static Torque (Ft-Lbs)

HP = Motor Horsepower

SF = Service Factor Desired

RPM = Motor Speed

Once your torque requirement has been determined, select a brake with at least that capacity.

3. Consult Part Number charts on pages PT2-6 thru PT2-10 for appropriate part number. Brake voltage should be matched with motor voltage rating.
4. Verify mounting dimensions (C-face tenon, mounting bolt pattern, shaft size, etc.) from pages PT2-6 thru PT2-10.
5. In positioning applications, use of a fast response kit allows you to obtain faster stop times. To order see page PT2-11.
6. In positioning applications, use 2.0 SF

Note: DODGE D Series brakes are intended as holding brakes. Contact application engineering with inertia and application information for cycle rates exceeding 6 per minute.

Brake Static Torque Ratings* (Ft.-Lbs)

Motor HP	Motor Speed (RPM)							
	750	900	1200	1500	1800	3000	3600	5000
1/4	3	3	3	3	3	3	3	
1/3	6	3	3	3	3	3	3	
1/2	6	6	6	3	3	3	3	
3/4	10	10	6	6	6	3	3	
1	10	10	10	6	6	3	3	
1-1/2	15	15	10	10	10	6	6	
2	20	20	15	10	10	6	6	
3	35	25	20	15	15	10	10	
5	50	50	35	25	25	15	15	
7-1/2	-	-	50	50	35	20	20	
10	-	-	-	50	50	35	25	

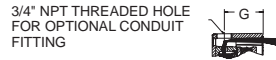
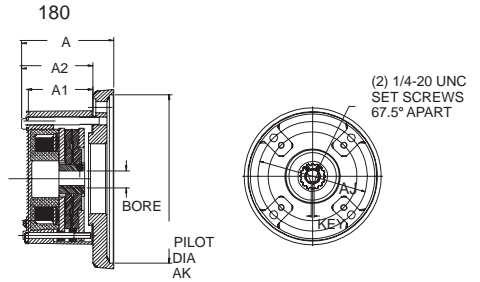
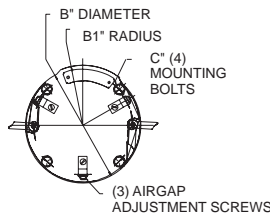
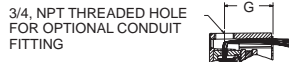
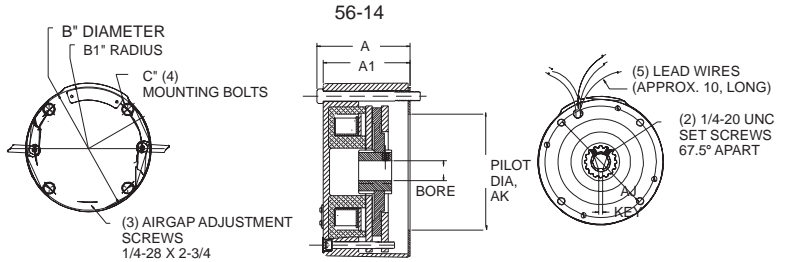
* Selections based on 1.4 service factor and increased to next highest standard brake torque rating.
Speed limit 5000 RPM maximum motor speed



SELECTION/DIMENSIONS



DBSC Model



COMPLETE UNIT PART NUMBERS

Standard Enclosure		Unit Size-Static Torque					
		3 Ft-Lbs	6 Ft-Lbs	10 Ft-Lbs	15 Ft-Lbs	20 Ft-Lbs	25 Ft-Lbs
C-FACE (FAN END MOUNTING)	DBSC Complete Units						
	56 Frame, 5/8" Bore						
	115/230 VAC 60 Hz (1)	031351	031393	031435	031477	031507	031537
	230/460 VAC 60 HZ (2)	031353	031395	031437	031479	031509	031539
	287/575 VAC 60 Hz (3)	031355	031397	031439	031481	031511	031541
	104/208 VAC 60 Hz (4)	031000	031015	031030	031043	031058	031073
	190/380 VAC 50 Hz (5)	031001	031016	031031	031044	031059	031074
	250/500 VAC 50 Hz	031002	031017	031032	031045	031060	031075
	48 VDC	031003	031018	031033	031046	031061	031076
	24 VDC	031004	031019	031034	031047	031062	031077
	12 VDC	031005	031020	031035	031048	031063	031078
	DBSC Complete Units						
	140 Frame, 7/8" Bore						
	115/230 VAC 60 Hz (1)	031007	031022	031037	031050	031065	031080
230/460 VAC 60 HZ (2)	031009	031024	031039	031052	031067	031082	
287/575 VAC 60 Hz (3)	031011	031026	031041	031054	031069	031084	
104/208 VAC 60 Hz (4)	031006	031021	031036	031049	031064	031079	
190/380 VAC 50 Hz (5)	031008	031023	031038	031051	031066	031081	
250/500 VAC 50 Hz	031010	031025	031040	031053	031068	031083	
48 VDC	031012	031027	031042	031055	031070	031085	
24 VDC	031013	031028	031160	031056	031071	031086	
12 VDC	031014	031029	031161	031057	031072	031087	

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COMPLETE UNIT PART NUMBERS

Standard Enclosure		Unit Size-Static Torque						
		6 Ft-Lbs	10 Ft-Lbs	15 Ft-Lbs	20 Ft-Lbs	25 Ft-Lbs	35 Ft-Lbs	50 Ft-Lb
C-FACE (FAN END MOUNTING)	180 Frame, 1-1/8" Bore 8-1/2" Pilot Diameter							
	115/230 VAC 60 Hz (1)	027023	027032	027041	027050	027059	027068	027077
	230/460 VAC 60 Hz (2)	027024	027033	027042	027051	027060	027069	027078
	287/575 VAC 60 Hz (3)	027025	027034	027043	027052	027061	027070	027079
	104/208 VAC 60 Hz (4)	027026	027035	027044	027053	027062	027071	027080
	190/380 VAC 50 Hz (5)	027027	027036	027045	027054	027063	027072	027081
	250/500 VAC 50 Hz	027028	027037	027046	027055	027064	027073	027082
	48 VDC	027029	027038	027047	027056	027065	027074	027083
	24 VDC	027030	027039	027048	027057	027066	027075	027084
	12 VDC	027031	027040	027049	027058	027067	027076	027085

NOTES:

- Bold Part Numbers are stock units. Other voltage units available on standard non-stock basis.
- Coil will operate at the following voltages:

(1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC	(3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz
(2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz,	(4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz, 90-95 VDC
220/440 VAC 50 Hz, 230 VDC	(5) 190/380 VAC 50 Hz, 200/400 VAC 60 Hz, 206/416 VAC 50 Hz

DIMENSIONS

Standard Enclosure Single C-face (Fan End Mounting)

Unit Size	Inertia Friction Disc & Hub (Lb-In ²)	Input Bore	Key	A Max	A1 Nom	AJ	AK Pilot Dia.	B Dia. Max.	B1 Radius Max	C Mounting Bolts	G	Shipping Weight (Lbs)
56DBSC-3 56DBSC-6 56DBSC-10 56DBSC-15 56DBSC-20 56DBSC-25	1.52	5/8"	3/16 x 3/32	3.74	3.36	5.88	4.5	6.63	3.46	3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia.	2.57	11.7
140DBSC-3 140DBSC-6 140DBSC-10 140DBSC-15 140DBSC-20 140DBSC-25	1.51	7/8"	3/16x3/32	3.74	3.36	5.88	4.5	6.63	3.46	Bolt Circle	2.57	11.8

Unit Size (6)	Inertia Friction Disc & Hub (7) (Lb-In ²)	Input Bore	Key	A Max	A1 Nom	A2	AJ	AK Pilot Dia.	B Dia. Max.	B1 Radius Max.	C Mounting Bolts	G	Shipping Weight (Lbs)
180DBSC-6* 180DBSC-10* 180DBSC-15* 180DBSC-20* 180DBSC-25* 180DBSC-35 180DBSC-50	1.51	1-1/8"	1/4" X 1/8"	4.78	3.36	3.74	7.25	8.5	6.63	3.46	3/8 - 16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle	2.57	20.6

(6) 140 Sizes do not require an adapter plate.

(7) Inertia for single-disc units.

*These sizes employ one friction disc.

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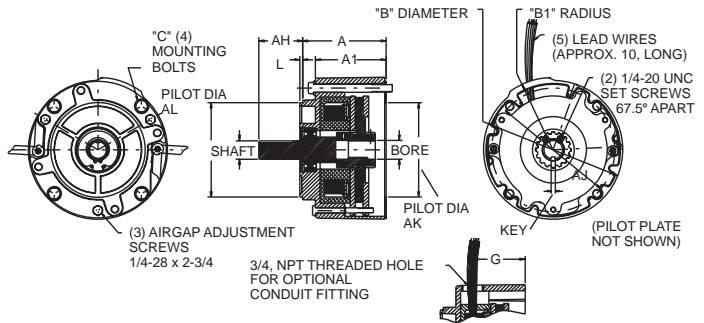
SELECTION/DIMENSIONS



Motor Brakes



DBSS Model



COMPLETE UNIT PART NUMBERS

Standard Enclosure		Unit Size --- Static Torque					
		3 Ft.-Lbs	6 Ft.-Lbs	10 Ft.-Lbs	15 Ft.-Lbs	20 Ft.-Lbs	25 Ft.-Lbs
DOUBLE C-FACE	DBSS Complete Units 56 Frame, 5/8" Bore						
	115/230 VAC 60 Hz (1)	031369	031411	031453	031342	031345	031348
	230/460 VAC 60 Hz (2)	031371	031413	031455	031343	031346	031349
	287/575 VAC 60 Hz (3)	031373	031415	031457	031344	031347	031350
	104/208 VAC 60 Hz (4)	031088	031100	031112	031124	031136	031148
	190/380 VAC 50 Hz (5)	031089	031101	031113	031125	031137	031149
	250/500 VAC 50 Hz	031090	031102	031114	031126	031138	031150
	48 VDC	031091	031103	031115	031127	031139	031151
	24 VDC	031092	031104	031116	031128	031140	031152
	12 VDC	031093	031105	031117	031129	031141	031153
	DBSS Complete Units 140 Frame, 7/8" Bore						
	115/230 VAC 60 Hz (1)	031375	031417	031459	031495	031525	031555
	230/460 VAC 60 Hz (2)	031377	031419	031461	031497	031527	031557
	287/575 VAC 60 Hz (3)	031379	031421	031463	031499	031529	031559
	104/208 VAC 60 Hz (4)	031094	031106	031118	031130	031142	031154
	190/380 VAC 50 Hz (5)	031095	031107	031119	031131	031143	031155
	250/500 VAC 50 Hz	031096	031108	031120	031132	031144	031156
	48 VDC	031097	031109	031121	031133	031145	031157
	24 VDC	031098	031110	031122	031134	031146	031158
	12 VDC	031099	031111	031123	031135	031147	031159

NOTES:

- Bold Part Numbers are stock units. Other voltage units available on standard non-stock basis.
- Coil will operate at the following voltages:

(1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC	(3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz
(2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC	(4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz, 90-95 VDC
	(5) 190/380 VAC 50 Hz, 200/400 VAC 60 Hz, 206/416 VAC 50 Hz

DIMENSIONS

Standard Enclosure Double C-face Coupler

Unit Size	Inertia Friction Disc & Hub (Lb-In ²)	Input Bore Output Shaft Dia.	Output Keyway & Input Key	A Max	A1 Nom	AK Pilot Dia.	AL Pilot Dia.	AH	AJ	B Dia. Max	B1 Radius Max.	C Mounting Bolts	G	L	Shipping Weight (Lbs)
56DBSS-3 56DBSS-6 56DBSS-10 56DBSS-15 56DBSS-20 56DBSS-25	1.73	5/8"	3/16 x 3/32	3.97	3.36	4.5	4.5	2.12	5.88	6.63	3.46	3/8 -16 UNC-2A (4) Equally Spaced on 5.875 Dia. Bolt Circle	2.57	0.13	13.2
140DBSS-3 140DBSS-6 140DBSS-10 140DBSS-15 140DBSS-20 140DBSS-25	1.74	7/8"	3/16 x 3/32	3.97	3.36	4.5	4.5	2.12	5.88	6.63	3.46	3/8 -16 UNC-2A (4) Equally Spaced on 5.875 Dia. Bolt Circle	2.57	0.13	13.3

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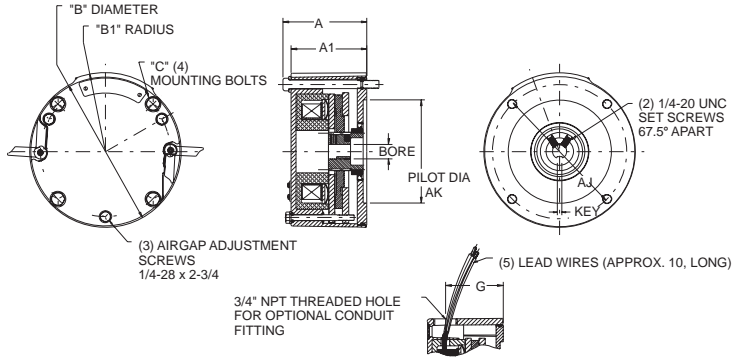
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Motor Brakes



DBEC Model

COMPLETE UNIT PART NUMBERS*

E-Z KLEEN Enclosure		Unit Size-Static Torque					
		3 Ft- Lbs	6 Ft- Lbs	10 Ft- Lbs	15 Ft- Lbs	20 Ft- Lbs	25 Ft- Lbs
C-FACE (FAN END MOUNTING)	DBEC Complete Units						
	56 Frame, 5/8" Bore						
	115/230 VAC 60 Hz (1)	031910	031913	031915	031918	031921	031924
	230/460 VAC 60 Hz (2)	031716	031718	031916	031919	031922	031925
	287/575 VAC 60 Hz (3)	031911	031914	031917	031920	031923	031926
	DBEC Complete Units						
140 Frame, 7/8" Bore							
115/230 VAC 60 Hz (1)	029436	029439	029442	029445	029448	029451	
230/460 VAC 60 Hz (2)	029437	029440	029443	029446	029449	029452	
287/575 VAC 60 Hz (3)	029438	029441	029443	029447	029450	029453	

NOTES:

* All torque ratings and voltages not listed here are available as standard non-stock units. Please contact DODGE Customer Service for part numbers, pricing & availability

● Coil will operate at the following voltages:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- (3) 287/575 VAC 60 Hz, 300/600 VAC 60 Hz

DIMENSIONS

E-Z KLEEN Single C- face (Fan End Mounting)

Unit Size	Inertia Friction Disc & Hub (Lb-In ²)	Input Bore	Key	A Max	A1 Nom	AJ	AK Pilot Dia.	B Dia. Max	B1 Radius Max.	C Mounting Bolts	G	Shipping Weight (Lbs)
56DBEC-3 56DBEC-6 56DBEC-10 56DBEC-15 56DBEC-20 56DBEC-25	1.52	5/8"	3/16 x 3/32	3.74	3.36	5.88	4.5	6.63	3.46	3/8 -16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle	2.57	14.4
140DBEC-3 140DBEC-6 140DBEC-10 140DBEC-15 140DBEC-20 140DBEC-25	1.51	7/8"	3/16 x 3/32	3.74	3.36	5.88	4.5	6.63	3.46		2.57	14.5

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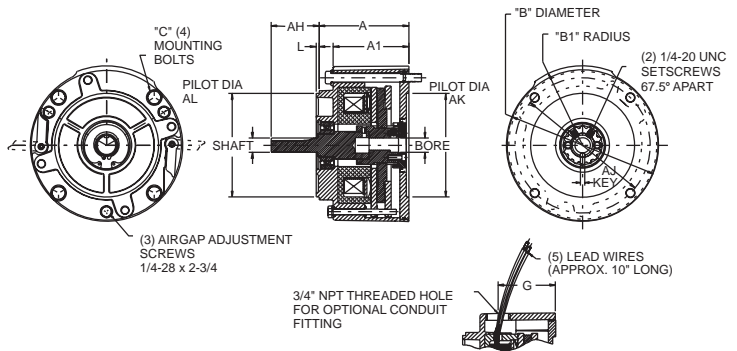
SELECTION/DIMENSIONS



Motor Brakes



DBES Model



COMPLETE UNIT PART NUMBERS

E-Z KLEEN Enclosure		Unit Size-Static Torque					
		3 Ft.-Lbs	6 Ft.-Lbs	10 Ft.-Lbs	15 Ft.-Lbs	20 Ft.-Lbs	25 Ft.-Lbs
DOUBLE C-FACE	DBES Complete Units 56 Frame, 5/8" Bore						
	115/230 VAC 60 Hz (1)	030381	030384	030387	030390	030393	030396
	230/460 VAC 60 HZ (2)	030382	030385	030388	030391	030394	030397
	287/575 VAC 60 Hz (3)	030383	030386	030389	030392	030395	030398
	DBES Complete Units 140 Frame, 7/8" Bore						
	115/230 VAC 60 Hz (1)	029400	029403	029406	029409	029412	029415
230/460 VAC 60 HZ (2)	029401	029404	029407	029410	029413	029416	
287/575 VAC 60 Hz (3)	029402	029405	029408	029411	029414	029417	

NOTES:

* All torque ratings and voltages not listed here are available as standard non-stock units. Please contact DODGE Customer Service for part numbers, pricing & availability

● Coil will operate at the following voltages:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- (3) 287/575 VAC 60 Hz, 275/550 VAC 60 Hz, 300/600 VAC 60 Hz

DIMENSIONS

E-Z KLEEN Double C-Face Coupler

Unit Size	Inertia Friction Disc & Hub (Lb-In ²)	Input Bore & Output Shaft Dia.	Output Keyway & Input Key	A Max	A1 Nom	AK Pilot Dia.	AL Pilot Dia.	AH	AJ	B Dia Max.	B1 Radius Max.	C Mounting Bolts	G	L	Shipping Weight (Lbs)
56DBES-3	1.73	5/8"	3/16 x 3/32	3.97	3.36	4.5	4.5	2.12	5.88	6.63	3.46	3/8-16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle	2.57	0.13	14.4
56DBES-6															
56DBES-10															
56DBES-15															
56DBES-20															
56DBES-25															
140DBES-3	1.74	7/8"	3/16 x 3/32	3.97	3.36	4.5	4.5	2.12	5.88	6.63	3.46	3/8-16 UNC-2A (4) Equally Spaced on 5.875" Dia. Bolt Circle	2.57	0.13	14.5
140DBES-6															
140DBES-10															
140DBES-15															
140DBES-20															
140DBES-25															

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Motor Brake Accessories

Fast Response Kits

In positioning applications, use of a fast response kit allows you to obtain stop times equivalent to AC voltage brakes while continuing to get all of the benefits associated with DC voltage brakes:

- Low power draw = less energy consumption
- Constant current creates smooth operation
- Lower coil temperature during cycling applications
- Quieter operation

The kit has two wiring configurations:

- Wired to brake and motor
- Wired to brake and isolated AC line

PART NUMBER

Description	Part Number
Fast Response Kit 115/230V	031386
Fast Response Kit 230/460V	031389
FRK w/ Conduit Cover 115/230V	031424
FRK w/ Conduit Cover 230/460V	031425
Fast Response Kit 190/380V	032552
Fast Response Kit 287/575V	032525
Fast Response Kit 380/460V	031392
Fast Response Kit 575V	032531

Replacement Rectifier Kit

DODGE D-Series Motor Brakes come with an internal rectifier allowing operation on either AC or DC voltage. A “one size fits all” replacement rectifier is available, in the event a new rectifier is needed. The kit wires external to the brake housing.

PART NUMBERS

Description	Part Number
DBSC/DBSS Replacement Rectifier	024018

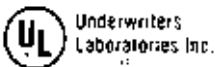
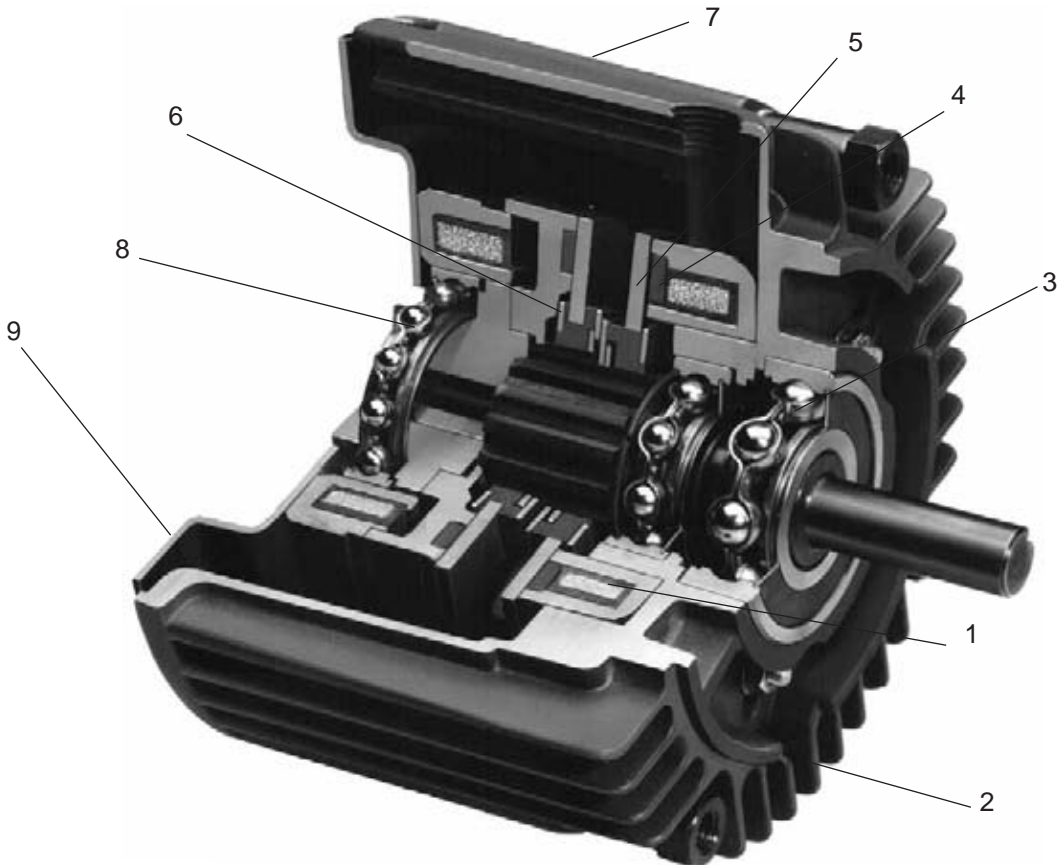


FEATURES/BENEFITS



Clutch/Brake Modules

1. Conforms to UL and C-UL requirements.
2. One-piece, die-cast housing simplifies mounting. Housing is finned for maximum heat dissipation.
3. Pre-lubricated and sealed ball bearings have higher B10 life rating than competitive modules.
4. High torque, non-asbestos friction material assures long life and environmental safety.
5. Armatures incorporate a high impact, high temp molded spline for heavy torque and high cycle capabilities. (Patent # 4,760,898)
6. DYNA-GAP automatic air gap mechanism automatically compensates for friction surface wear.
7. Modules are factory assembled, adjusted and burnished for easy installation and out-of-the-box operation.
8. Rotor incorporates ball bearing and Driv-Lok key for foolproof installation.
9. Standard NEMA C-face and Base Mounted, Shaft-in/Shaft-out mounting configurations.





SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Clutch/Brake Modules

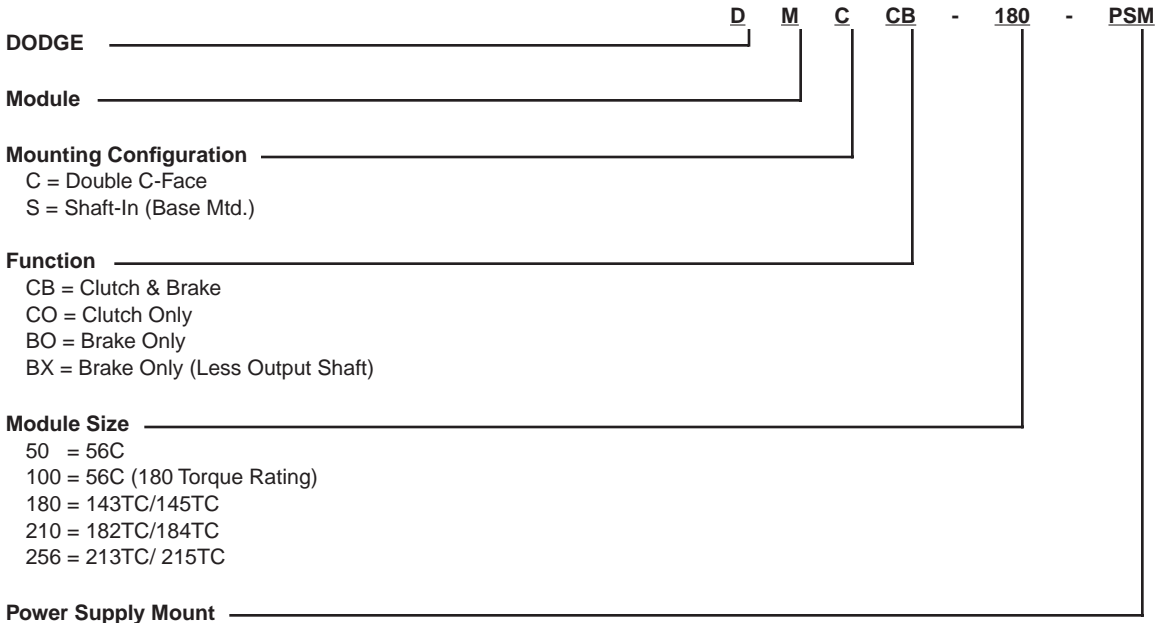
SPECIFICATION

Clutch/Brake Modules mount directly to NEMA C-face motors and reducers or can be used with separate base mount frames. These modules are completely factory assembled, tested, and pre-burnished for easy installation and long maintenance free operation. The units are designed with large ball-bearings to provide greater over-hung load capacity and longer life. They use larger armatures for high torque transmission.

HOW TO ORDER

Clutch/Brake Modules are ordered by specifying the type of unit, size and voltage. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

NOMENCLATURE





SELECTION/DIMENSIONS



Clutch/Brake Modules

SELECTION

DMC Selection by NEMA Frame Size

Frame Size	Module Size
56C	DMC-50, 100 ◆
143TC/145TC	DMC-180
182TC/184TC	DMC-210
213TC/215TC	DMC-256

- ◆ DMC 100 module has rating of 180 module with 56C (5/8") shafts

Selection Procedure

- (1) Determine the frame size, horsepower and speed at the module location (motor speed for DMC Series).
- (2) Choose proper module size based on motor frame size for DMC Series or motor HP and operating speed for DMS Series.
- (3) Check to ensure the max allowable cycles per minute rating is not exceeded by consulting charts in the engineering/technical section. Consult DODGE Engineering when allowable cycle rate is exceeded.

DMS Series Selection

HP	Shaft Speed at Module (RPM)																		
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	
1/4	210	180	180	180	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
1/2	210	210	180	180	180	180	180	180	50	50	50	50	50	50	50	50	50	50	50
3/4		210	210	210	180	180	180	180	180	180	180	50	50	50	50	50	50	50	50
1		210	210	210	210	210	180	180	180	180	180	180	180	50	50	50	50	50	50
1-1/2			210	210	210	210	210	210	210	210	180	180	180	180	180	180	180	180	180
2				210	210	210	210	210	210	210	210	210	210	180	180	180	180	180	180
3					210	210	210	210	210	210	210	210	210	210	210	210	210	180	180
5									256	256	256	210	210	210	210	210	210	210	210
7-1/2													256	210	210	210	210	210	210
10														256	256	256	256	256	256
15																		256	256

NOTE: 256 modules may be selected as an alternate to the 210 size. Check shaft diameter for proper drive components

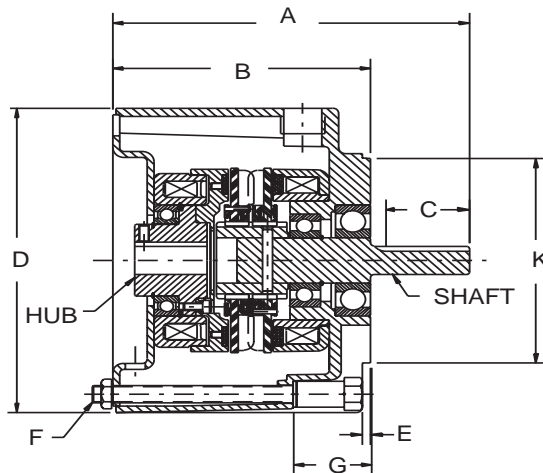


Clutch/Brake Modules



DMCCB & DMCCO

DMCCB modules are ideal for rapid cycling applications. They can be mounted directly between a C-face motor and reducer. Five standard sizes are available in 90, 24 or 6 VDC input voltage. The brake is power on. The DMCCO mounts and operates in a manner similar to DMCCB, but as a clutch only. The clutch ratings and external dimensions of both units are the same and are completely factory preassembled, adjusted, burnished and dynamically tested.



**Clutch/Brake Module
(Clutch Only-Same Dimensions)**

PART NUMBERS		Static Torque (Lb. - Ft.)	Coil Voltage		
			90 VDC	24 VDC	6 VDC
C-Face Clutch & Brake	DMCCB-50	22	028765	028763	028761
	DMCCB-100	34	028770	028768	028766
	DMCCB-180	34	028775	028773	028771
	DMCCB-210	100	028780	028778	028776
	DMCCB-256	100	028785	028783	028781
C-Face Clutch Only	DMCCO-50	22	028855	028853	028851
	DMCCO-100	34	028860	028858	028856
	DMCCO-180	34	028865	028863	028861
	DMCCO-210	100	028870	028868	028866
	DMCCO-256	100	028875	028873	028871

Size	Static Torque (Lb.-Ft.)	C-Face Frame	Input Hub Dia	Output Shaft Dia	Keyway	A Max	B	C	D Max	E Max	F	G*	K
50	22	56C	5/8	5/8	3/16 x 3/32	6.75	4.84	1.59	6.75	.16	4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C.	1.30	4.50
100	34	56C	5/8	5/8	3/16 x 3/32	6.75	4.84	1.59	6.75	.16		1.30	4.50
180	34	143TC and 145TC	7/8	7/8	3/16 x 3/32	6.75	4.84	1.59	6.75	.16	4 Equally Spaced 1/2-13 UNC on 7.25" Dia. B.C.	1.30	4.50
210	100	182TC and 184TC	1-1/8	1-1/8	1/4 x 1/8	8.83	6.20	2.00	9.05	.27		1.57	8.50
256	100	213TC and 215TC	1-3/8	1-3/8	5/16 x 5/32	9.32	6.20	2.50	9.05	.27	1.57	8.50	

* G Dimension = Electrical Connection

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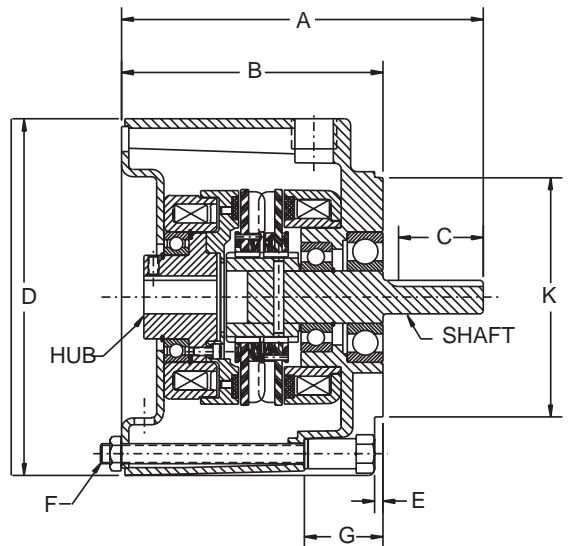
SELECTION/DIMENSIONS



Clutch/Brake Modules



DMCCB-PSM
Power Supply Mounted †
Clutch Brake Motor



Part Number		Static Torque (Lb-Ft)	Coil Voltage
			90 VDC
C-Face	DMCCB-50-PSM	22	028977
Clutch &	DMCCB-180-PSM	34	028979
Brake	DMCCB-210-PSM	100	028981

Size	Static Torque (Lb.-Ft.)	C-Face Frame	Input Hub Dia	Output Shaft Dia	Keyway	A Max	B	C	D Max	E Max	F	G*	K
50	22	56C	5/8	5/8	3/16 x 3/32	6.75	4.84	1.59	6.75	.16	4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C.	1.30	4.50
180	34	143TC and 145TC	7/8	7/8	3/16 x 3/32	6.75	4.84	1.59	6.75	.16		1.30	4.50
210	100	182TC and 184TC	1-1/8	1-1/8	1/4 x 1/8	8.83	6.20	2.00	9.05	.27	4 Equally Spaced 1/2-13 UNC on 7.25" Dia. B.C.	1.570	8.50

* G Dimension = Electrical Connection

† NOTE: Unit includes two model 50 power supplies (120 VAC input) part number 032408

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Clutch/Brake Modules

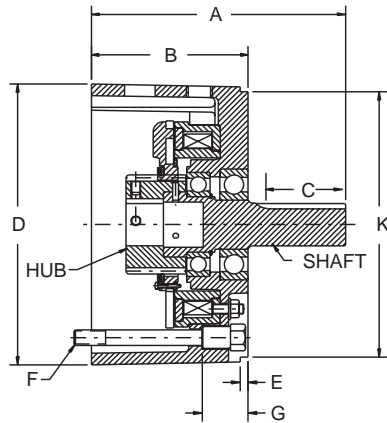


DMCBO



DMCBX

The DMCBO mounts and operates in a manner similar to DMCCB, but as a power-on brake only. Brake ratings are the same as the DMCCB. Dimensionally, the DMCBO is shorter axially from C-face to output shaft. The DMCBX power-on brake is designed to be mounted on a double shafted C-face motor. It is shorter axially than comparable power-off brakes and provides the advantages of C-face mounting in space restricted applications. Sizes and ratings are the same as the DMCBO brakes.



**Brake Only Module
(Style without Shaft Not Shown)**

Part Numbers		Static Torque (Lb.-Ft.)	Coil Voltage		
			90 VDC	24 VDC	6 VDC
C-Face Brake Only	DMCBO-50	22	028120	028123	028121
	DMCBO-100	34	028920	028923	028921
	DMCBO-180	34	028220	028223	028221
	DMCBO-210	100	028320	028323	028321
	DMCBO-256	100	028820	028823	028821
C-Face Brake Only (No Shaft)	DMCBX-50	22	028125	028128	028126
	DMCBX-180	34	028225	028228	028226
	DMCBX-210	100	028325	028328	028326
	DMCBX-256	100	028825	028828	028826

Size	Static Torque (Lb.-Ft.)	C-Face Frame Size	Hub Dia.	Output Shaft Dia.	Keyway	A Max	B	C	D Max	E Max	F	G*	K
DMCBO-50	22	56C	5/8	5/8	3/16x3/32	5.18	3.28	1.59	6.75	.16	4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C.	1.30	4.50
DMCBX-50	22	56C	5/8	-	3/16x3/32	3.30	3.28	-	6.75	.16		1.30	4.50
DMCBO-100	34	56C	5/8	5/8	3/16x3/32	5.18	3.28	1.59	6.75	.16	4 Equally Spaced 3/8-16 UNC on 5.875" Dia. B.C.	1.30	4.50
DMCBO-180	34	143TC and 145TC	7/8	7/8	3/16x3/32	5.18	3.28	1.59	6.75	.16		1.30	4.50
DMCBX-180		-		3.30		-							
DMCBO-210	100	182TC and 184TC	1-1/8	1-1/8	1/4X1/8	7.65	5.02	2.00	9.00	.27	4 Equally Spaced 1/2-13 UNC on 7.25" Dia. B. C.	1.57	8.50
DMCBX-210				-		5.17		-					
DMCBO-256	100	213TC and 215TC	1-3/8	1-3/8	3/16x5/32	8.04	5.02	2.50	9.00	.27	1.57	8.50	
DMCBX-256				-		4.92		-					

* G Dimension = Electrical Connection

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SELECTION/DIMENSIONS

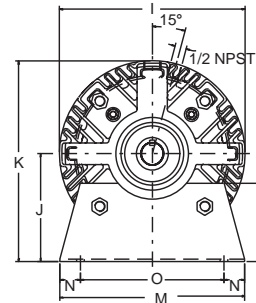
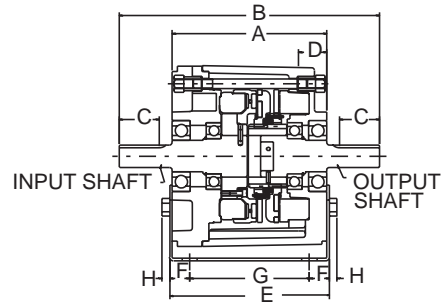


Clutch/Brake Modules



DMSCB & DMSCO

The DMSCB clutch/brake module is rated identically to the C-face version, but is mounted on a base with standard shaft input and output. It can be direct coupled or linked by belt drive to motor and driven equipment. The DMSCO mounts and operates in a manner similar to the DMSCB, but as a clutch only. Clutch ratings and dimensions of both units are identical.



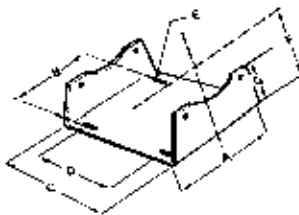
Part Numbers		Static Torque (Lb.-Ft.)	Coil Voltage		
			90 VDC	24 VDC	6 VDC
Base Mount	DMSCB-50	22	028130	028133	028131
Clutch & Brake	DMSCB-180	34	028230	028233	028231
	DMSCB-210	100	028330	028333	028331
Base Mount	DMSCO-50	22	028140	028143	028141
Clutch	DMSCO-180	34	028240	028243	028241
Only	DMSCO-210	100	028340	028343	028341

Size	Static Torque (Lb.-Ft.)	Shaft Dia.	Keyway	A	B	C Min	D*	E	F	G	H	I Max	J	K	L	M	N	O
50	22	5/8	3/16 x 3/32	5.72	9.49	1.59	1.30	5.70	0.85	4	0.34	6.75	3.50	6.87	2.00	6	0.50	5.00
180	34	7/8			9.49	1.59							4.50	7.87	3.00			
210	100	1-1/8	1/4 x 1/8	7.71	12.97	2.00	1.57	8.20	1.09	6	0.44	9.05	5.25	9.78	3.37	9	0.62	7.75

* D Dimension - Electrical connection

DMS Series Module Bases

Style	Size	Base Part Number
Module Base	DM-50-B	028180
	DM-180-B	028280
	DM-210-B	028380



Size	A	B	C	D Nom	E (Slot)	F	G
DM-50-B	6.00	5.00	5.70	4.00	.75 x.40	3.50	2.00
DM-180-B	6.00	5.00	5.70	4.00	.75 x.40	4.50	3.00
DM-210-B	9.00	7.75	8.20	6.00	.75 x.53	5.25	3.80

** Module base sold separately



Shaft Mounted Clutches & Brakes

IEC SERIES - Shaft Mounted Clutches

DODGE IEC Electric Clutches are engineered to mount on standard motor shafts or thru shafts. These clutches are designed to accept standard sheaves, sprockets & gears. The product features include:



- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-3/8"
- **Torque Range**-Rating from 22 lb-ft. to 175 lb-ft. handling from 1/50 to 7-1/2 HP @ 1800 RPM. Units are pre-burnished at the factory.
- **Easy Installation**-Sheaves, sprockets, gears or other standard power transmission components mount directly to the clutch hub.
- **Conduit Box** meets Industry Standards-C-UL-UL.
- **Long Life**-Minimal Maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic Wear Compensation.
- **Maintenance**- Friction surfaces easily replaced.

IEB SERIES - Shaft Mounted Power-On Brakes

DODGE IEB Electric Brakes are engineered to mount on standard motor shafts or thru shafts.



- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-11/16"
- **Torque Range**-Rating from 22 lb-ft. to 175 lb-ft. handling from 3/4 to 20 HP @ 1800 RPM. Units are pre-assembled at the factory.
- **Conduit Box** meets Industry Standards-C-UL-UL.
- **Long Life**-Minimal Maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic Wear Compensation

IPB SERIES - Flange Mounted Brakes

DODGE IPB Electric Brakes are equipped with flange for ease of mounting to any suitable mounting surface.



- **Mounting Flexibility**-Offered in bore sizes from 1/2" to 1-3/8"
- **Torque Range**-Rating from 22 lb-ft. to 100 lb-ft. handling from 3/4 HP to 10 HP @ 1800 RPM.
- **Conduit Box** meets Industry Standards-CUL-UL.
- **Long Life**-Minimal maintenance-Integral splined armature and fan designed for maximum cooling.
- **DYNA-GAP**-Automatic wear compensation.



Shaft Mounted Clutches & Brakes

SELECTION PROCEDURE

1. Determine the horsepower and the speed at the clutch or brake.
2. Choose proper size based on motor HP and operating speed.
3. Check to ensure the maximum allowable cycles per minute rating is not exceeded by consulting the charts in the Engineering/Technical section.

IEC Series/RPM

HP	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	4500	5000	
1/50																						
1/20																						
1/12									IEC-375													
1/8																						
1/6																						
1/4																						
1/2																						
3/4									IEC-475													
1																						
1-1/2																						
2									IEC-650													
3																						
5									IEC-825													
7-1/2																						

IEB and IPB* Series/RPM

HP	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	4500	5000	
1/12																						
1/8																						
1/6																						
1/4									IEB-375/IPB-375													
1/3																						
1/2																						
3/4																						
1																						
1-1/2									IEB-475/IPB-475													
2																						
3									IEB-650/IPB-650													
5																						
7-1/2									IEB-825*													
10																						
15																						
20																						
25																						
30																						
40																						

* IPB selection through size 650



SELECTION/DIMENSIONS

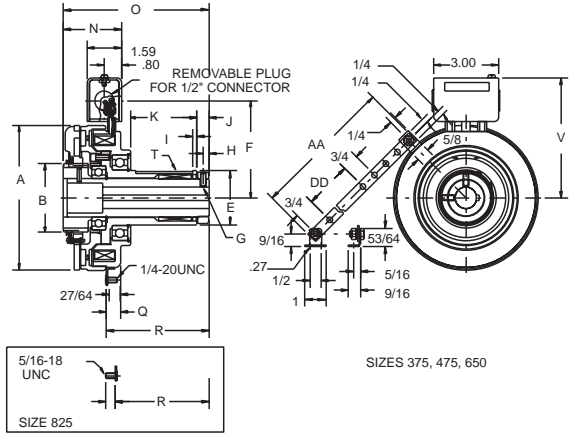


Shaft Mounted Clutches & Brakes

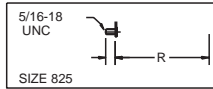


IEC SERIES

IEC Series Shaft Mounted Clutches are factory assembled, tested, preburnished and ready to mount on standard motor shafts. Sheaves, sprockets, gears or other power transmission components can be mounted directly on the clutch hub extension with standard DODGE TAPER-LOCK® bushings.

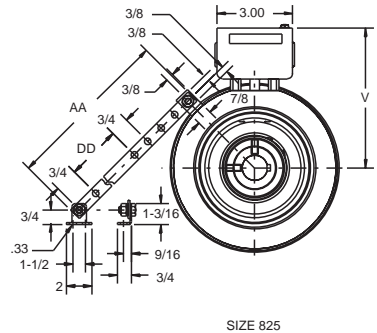


SIZES 375, 475, 650



Part Numbers

Unit Size	Voltage	Bore Size																		
		1/2"	5/8"	3/4"	7/8"	1	1-1/8"	1-1/4"	1-3/8"											
IEC-375	90 VDC	027500	027501																	
	24 VDC	027506	027507																	
	6 VDC	027502	027503																	
IEC-475	90 VDC		027601	027601	027602															
	24 VDC		027609	027610	027611															
	6 VDC		027603	027604	027605															
IEC-650	90 VDC					027700	027701	027702	027703											
	24 VDC					027712	027713	027714	027715											
	6 VDC					027704	027705	027706	027707											
IEC-825	90 VDC					027806	027800	027801	027802											
	24 VDC					027812	027813	027814	027815											
	6 VDC					027807	027803	027804	027805											



SIZE 825

IEC Series Dimensions

Size	Bore ±.001	Keyway	Static Torque Lb-Ft	A Max	B Max	E Dia	F	G Set-Screw	H	I	J	K	N Max	O Max	Q	R	T Keyway	V Max	W	AA	DD
IEC-375	1/2	1/8 x 1/16	22	4.08	1.70	1.375	3.20	#10-24	.18	.22	.35	2.10	2	4.65	.60	3	5/16x3/16*	4.23	2.44	5	1.50
	5/8	3/16 x 1/16*				1.3735															
IEC-475	5/8	3/16 x 3/32	34	5.17	2.20	1.625	3.78	1/4-20	.28	.20	.58	2.39	2.10	5.30	.60	3.53	3/8x1/16*	4.98	2.98	5	1.50
	3/4	3/16 x 3/32				1.6235															
	7/8	3/16 x 3/32*																			
IEC-650	1	1/4 x 1/8	100	6.68	3.17	2.500	4.47	1/4-20	.27	.19	.56	3.08	2.69	6.72	.52	4.61	5/8x3/32*	5.66	3.73	10♦	6.50
	1-1/8	1/4 x 1/8				2.4985															
	1-1/4	1/4 x 1/8																			
	1-3/8	5/6 x 3/32*																			
IEC-825	1	1/4 x 1/8	175	8.43	3.17	2.500	5.35	1/4-20	.27	.19	.56	3.08	2.81	7.01	-	4.19	5/8x3/32*	6.54	5.06	17♦	2.88
	1-1/8	1/4 x 1/8				2.4985															
	1-1/4	1/4 x 1/8																			
	1-3/8	5/16x3/32*																			

♦ Tab location on IEC-650 45° counterclockwise from top; tab location on IC-825 45° clockwise from top

* Non-standard keyway - keys furnished with clutch

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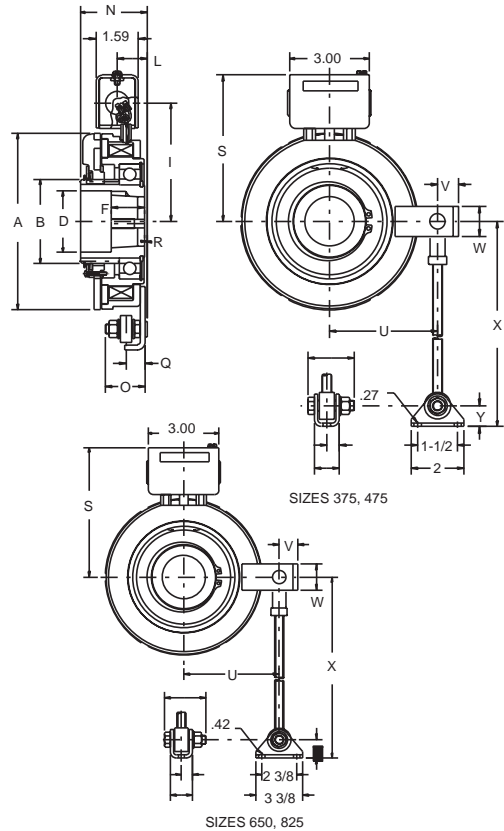


Shaft Mounted Clutches & Brakes



IEB SERIES

IEB Series Shaft Mounted Power-On Brakes offer a wide selection of bore sizes with the use of the DODGE TAPER-LOCK bushings. The anti-rotation torque arm can be mounted in any location around the shaft for further application flexibility. Ten motor adaptors are also available for mounting single shaft extension motors.



Part Numbers

Unit Size	Voltage	Bore Size		
		1/2"	5/8"	TAPER-LOCK
IEB-375	90 VDC	027550	027551	
IEB-375	24 VDC	027556	027557	
IEB-375	6 VDC	027552	027553	
IEB-475	90 VDC			027650 TAPER-LOCK
IEB-475	24 VDC			027653 #1008
IEB-475	6 VDC			027651 1" Max.
IEB-650	90 VDC			027750 TAPER-LOCK
IEB-650	24 VDC			027753 #1310
IEB-650	6 VDC			027751 1-7/16" Max.
IEB-825	90 VDC			027850 TAPER-LOCK
IEB-825	24 VDC			#1615
IEB-825	6 VDC			027851 1-11/16" Max.

* TL Bushing sold separately

Size	Bore	Keyway	Static Torque Lb.-Ft.	A Max.	B	D	F	I	L	N Max.	O	Q	R Max.	S	U	V	W	X Max.	Y
IEB-375	1/2 5/8	1/8 x 1/16 3/16 x 3/32	22	4.08	1.70	.98	1.66	3.34	.90	2.25	1.00	.33	.15	4.45	2.52	.66	1.00	8	.69
IEB-475	TAPER-LOCK Bushing #1008 1" Max.		34	5.17	2.20	1.45	1.00	3.88	.75	1.88	1.00	.33	.15	4.98	3.05	.78	1.00	10	.69
IEB-650	TAPER-LOCK Bushing #1310 1-7/16" Max.		100	6.65	3.17	2.30	1.27	4.55	1.13	2.51	1.31	.80	.09	5.74	4.06	.78	1.13	11.78	.78
IEB-825	TAPER-LOCK Bushing #1615 1-11/16" Max.		175	8.39	3.17	2.25	1.63	5.42	1.18	2.72	1.31	.80	-	6.61	4.81	.84	1.13	11.78	.78

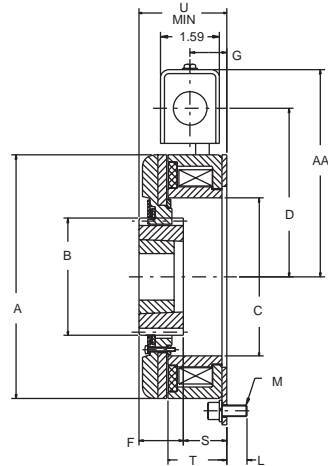
FEATURES/BENEFITS PAGE PT2-19	SPECIFICATION/HOW TO ORDER PAGE PT2-20	MODIFICATION PAGE PT2-37	ENGINEERING/TECHNICAL PAGE PT2-39
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SELECTION/DIMENSIONS



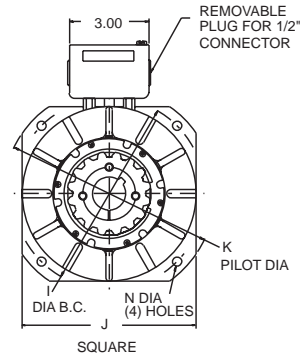
Shaft Mounted Clutches & Brakes



IPB SERIES

IPB Series Flange Mounted Power-On Brakes operate similar to the FB Series brake. The brake magnet/flange can be mounted to any suitable mounting surface. Armature mounts to load shaft using DODGE TAPER-LOCK bushings.

Unit Size	Voltage	Bore Size				TAPER-LOCK
		1/2"	5/8"	3/4"	7/8"	
IPB-375	90 VDC	029900	029901	029902	029903	
	24 VDC	029918	029919	029920	029921	
	6 VDC	029909	029910	029911	029912	
IPB-475	90 VDC					029904 TAPER-LOCK
	24 VDC					029922 #1008
	6 VDC					029913 1" Max.
IPB-650	90 VDC					029905 TAPER-LOCK
	24 VDC					029923 #1610
	6 VDC					029914 1-11/16" Max.



* TL Bushing sold separately

Size	Bore	Keyway	Static Torque (Lb.-Ft.)	A Max	B	C	D	F	G	I	J Sq.	K	S	T	U Min.	M	L Max.	AA*	N	P
IPB-375	1/2	1/8x1/16	22	4.08	1.70	2.62	3.34	1.66	.78	5.00	4.25	5.625	1.04	1.15	2.36	4.45	.61	1/4-20 UNC	.280 .300	4.00
	5/8	3/16x3/32										5.623								
	3/4	3/16 x 3/32																		
IPB-475	Bushing 1008-1 1" Max.		34	5.17	2.20	3.15	3.88	1.00	.88	5.88	5.00	6.500	.97	1.31	2.23	4.98	.52	3/8-16 UNC	0.389 0.409	4.00
												6.498								
IPB-650	Bushing 1610 1-3/8" Max.		100	6.65	3.17	4.27	4.55	1.20	.99	7.25	6.50	8.000 7.998	1.17	1.59	2.37	5.74	.55	5/16-18 UNC	0.338 0.358	4.00

* Screw not included



Fractional Hp Clutches & Brakes



SL SERIES



BSL SERIES

SL & BSL SERIES ELECTRIC CLUTCHES

- BEARING MOUNTED
- COUPLES 2 PARALLEL SHAFTS
- SL HAS 9 SIZES FOR SHAFT DIAMETERS 3/16-3/4"
- BSL HAS 2 SIZES FOR SHAFT DIAMETERS 1/2-1"
- PROTECTIVE ZINC CHROMATE PLATING



SO SERIES

SO SERIES ELECTRIC CLUTCH-COUPPLINGS

- COUPLES IN-LINE SHAFTS
- ZINC CHROMATE PLATING FOR CORROSION RESISTANCE
- 9 SIZES FOR SHAFT DIAMETERS 3/16-1"



FB SERIES

FB SERIES POWER ON BRAKES

- POWER-ON BRAKE, ENGAGES WHEN VOLTAGE IS APPLIED, RELEASES WHEN VOLTAGE IS TURNED OFF
- 9 SIZES FOR SHAFT DIAMETERS 3/16-1"



FSB SERIES



FSBR SERIES

FSB AND FSBR SERIES POWER OFF BRAKES

FSB

- FLANGE MOUNTED
- ENGAGES WHEN VOLTAGE IS REMOVED
- 7 SIZES FOR SHAFT DIAMETERS 3/16-3/4"
- NON-ASBESTOS, NON-LEAD FRICTION MATERIAL FOR LONG-LIFE AND QUIET OPERATION

FSBR

- DESIGNED FOR APPLICATIONS REQUIRING MINIMAL SPACE
- 5 SIZES FOR SHAFT DIAMETERS 5/16-3/4"
- NON-ASBESTOS, NON-LEAD FRICTION MATERIAL FOR LONG-LIFE AND QUIET OPERATION



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



Fractional Hp Clutches & Brakes

SPECIFICATION

The Fractional HP product offerings include three shaft mounted clutches and three flange mounted brakes. In the shaft mounted line, the SL and BSL series are used to couple two parallel shafts, and the SO series is used to couple two in-line shafts. They are engineered for easy installation, and incorporate a zero backlash armature hub assembly. In the flange mounted line, the FB series is "power-on" and the FSB and FSBR series are "power-off".

HOW TO ORDER

Fractional HP Clutches and Brakes are ordered by specifying the type of unit, size, voltage and bore size. Part numbers are found on the selection pages for each type of unit. Refer to the part number when ordering.

NOMENCLATURE

SL 15 - 90 x 38"

TYPE

SL Shaft Mounted Clutch
 BSL Ball Bearing Mounted Clutch
 SO Shaft Mounted Clutch Coupling
 FB Flange Mounted Brake
 FSB Fail Safe (Power-off) Brake
 FSBR Fail Safe (Power-off) Brake
 Reverse Mount

SIZE (Approximate O.D. of Unit)

VOLTAGE

24 VOLT
 90 VOLT
 * Other Voltages Available by Special Order

BORE SIZE

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Fractional Hp Clutches & Brakes

Power-On Clutch & Brake Selection

- Determine the motor horsepower required (or torque required for sizes 08-15) and speed at the clutch location. For optimum performance, the clutch should be mounted on the highest speed shaft.
- Using the Selection Chart, identify the proper clutch size-where the shaft speed intersects the HP (or torque) required.
- Where rapid cycling occurs, check the Allowable Cycles Chart below. If the allowable cycle rate is exceeded, consult DODGE Engineering.
- Specify the voltage and shaft size when ordering.
- For optimum performance, use a properly sized control.

Allowable Cycles/Minute*

UNIT SIZE	RPM	INERTIA (Lb-In ²)				UNIT SIZE	RPM	INERTIA (Lb-In ²)			
		5	10	50	100			50	100	500	1000
08	225	300	200	30	12	19	225	200	120	20	8
	900	30	12	2	1		900	9	5	1	-
11	225	-	300	60	30	22	225	250	150	25	10
	900	45	20	3	2		900	12	6	1	-
15	225	-	350	120	60	26	225	300	200	30	12
	900	60	30	6	3		900	20	9	2	1
17	225	-	-	150	100	30	225	350	250	40	20
	900	80	40	7	4		900	25	12	3	1
						42	225	-	300	60	30
							900	30	20	4	2

* Chart intended as a guide. For other speeds and inertias, consult DODGE

FOR SL, BSL, SO SERIES

TORQUE LB-IN★	SHAFT SPEED AT CLUTCH (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
0.50								08												
1.00																				
1.50																				
2.00																				
2.50										11										
3.00																				
3.50																				
4.00																				
4.50																				
5.00										15										
5.50																				
6.00																				
6.50																				
7.00																				

★ Slightly higher torque ratings may be allowable for some speeds. Consult DODGE



SELECTION



HP vs. RPM (Sizes 17 thru 42) - Selection Chart

HP	SHAFT SPEED AT CLUTCH (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
1/50																				
1/20													17							
1/12																				
1/8												19								
1/6											22									
1/4										26										
1/3																				
1/2										30										
3/4										42										
1																				
1 1/2																				
2																				
3																				
5																				
7-1/2																				
10																				

FOR FB SERIES:

Torque Rating vs. RPM (Sizes 08 thru 15)- Selection Chart

TORQUE E LB- IN★	SHAFT SPEED AT CLUTCH (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
0.5							08													
1.0																				
1.5																				
2.0																				
2.5										11										
3.0																				
3.5																				
4.0																				
4.5																				
5.0										15										
5.5																				
6.0																				
6.5																				
7.0																				

★ Slightly higher torque ratings may be allowable for some speeds. Consult DODGE.

HP vs. RPM (Sizes 17 thru 42)-Selection Chart

HP	SHAFT SPEED AT CLUTCH (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
1/50																				
1/20																				
1/12													17							
1/8																				
1/6																				
1/4												19								
1/3																				
1/2												22								
3/4												26								
1																				
1 1/2																				
2																				
3																				
5																				
7 1/2																				
10																				



Fractional Hp Clutches & Brakes

- Determine the motor horsepower required and speed at the brake location. For optimum performance, the brake should be mounted on the highest speed shaft.
- Using the Selection Chart, identify the proper brake size-where the shaft speed intersects the HP required.
- Where rapid cycling occurs, check the Allowable Cycles Chart below. If the allowable cycle rate is exceeded, consult DODGE Engineering.
- Specify the voltage and shaft size when ordering.
- For optimum performance, use a properly sized control.

FSB Allowable Cycles/Minutes*

UNIT SIZE	RPM	INERTIA (Lb-In ²)				UNIT SIZE	RPM	INERTIA (Lb-In ²)			
		1	5	10	50			10	50	100	500
01	1800	60	12	6	1	35	1800	25	5	2.50	0.50
	3600	15	3	1.50	-		3600	5	1	0.50	-
03	1800	80	16	8	2	50	1800	25	5	2.50	0.50
	3600	20	4	2	-		3600	5	1	0.50	-
07	1800	150	30	15	3	100	1800	50	10	5	1
	3600	40	8	4	3		3600	12	2.50	1.20	-
15	1800	150	30	15	3						
	3600	40	8	4	0.80						

* Chart intended as guide. For other speed and inertias, consult DODGE.

FOR FSB SERIES:

Torque Rating vs. RPM (Sizes 001 thru 007) - Selection

TORQUE LB-IN	SHAFT SPEED AT BRAKE (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
0.50											1									
0.75																				
1.00																				
2.00											3									
2.50																				
2.75																				
3.00																				
5.00																				
6.25											7									
6.50																				
6.75																				
7.00																				

HP vs. RPM (Sizes 17 thru 42) - Selection

HP	SHAFT SPEED AT BRAKE (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
1/50																				
1/20																				
1/12											15									
1/8																				
1/6																				
1/4																				
1/3											35									
1/2																				
3/4											50									
1																				
1-1/2											100									
2																				
3																				
5																				
7-1/2																				
10																				



SELECTION



FOR FSBR SERIES

HP	SHAFT SPEED AT BRAKE (RPM)																			
	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	5000
1/50																				
1/20																				
1/12											7									
1/8																				
1/6											15									
1/4																				
1/3																				
1/2											35									
3/4											50									
1																				
1-1/2											100									
2																				
3																				
5																				
7-1/2																				
10																				

FSBR Allowable Cycles/Minutes ★

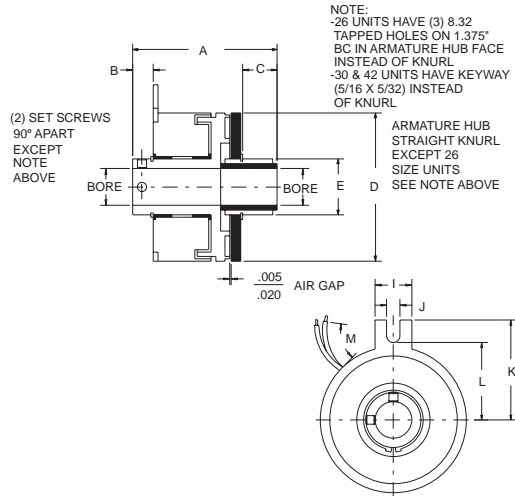
Unit Size	RPM	Inertia (Lb.- in. ²)			
		5	10	50	100
07	1800	30	15	3	-
	3600	8	4	0.8	-
15	1800	30	15	3	-
	3600	8	4	0.8	-
35	1800	50	25	5	2.5
	3600	10	5	1	0.5
50	1800	50	25	5	2.5
	3600	10	5	1	0.5
100	1800	100	50	10	5
	3600	25	12	2.5	1.2

★ Chart intended as a guide. For other speeds and inertias, consult DODGE.



SL Series

The Shaft Mounted SL SERIES clutches are engineered for easy installation. Nine sizes are available for shaft diameters from 3/16" to 3/4". The SL Armature Hub will accept sheaves, sprockets, gears or other typical power transmission drive components. SL Clutches are plated for protection from the environment. The SL units have a zero backlash armature hub assembly.



BSL Series Dimensions

SIZE	PART NO.	VOLTS DC	BORE IN. ★	ROTOR KEYWAY	STATIC TORQUE (LB.-IN.)	A MAX	B NOM	C MAX	D MAX	E ±.002	I MAX	J MIN	K NOM	L NOM	M ±.500
SL-08	024000	90	3/16	set screws	2.5	1.370	.191	.410	.903	.507	.305	.094	0.625	.445	12.00
	024001		1/4												
	024002	24	3/16												
SL-11	024100	90	1/4	set screws	6	1.409	.147	.396	1.160	.506	.380	.122	0.875	.585	12.00
	024101		5/16												
	024102	24	1/4												
SL-15	024200	90	5/16	set screws	10	1.695	.275	.303	1.500	.630	.520	.180	1.120	.750	12.00
	024201		3/8												
	024202	24	5/16												
SL-17SL-17	024300	90	5/16	set screws	15	1.823	.279	.380	1.780	.630	.505	.184	1.325	.975	12.00
	024301		3/8												
	024302	24	5/16												
SL-19	024400	90	3/8	3/32x3/64 set screws	25	1.948	.279	.465	2.000	.756	.505	.184	1.325	.975	12.00
	024401		1/2												
	024402	24	3/8												
SL-22	024500	90	3/8	3/32x3/64 set screws	50	2.160	.281	.432	2.260	.756	.442	.170	1.515	1.160	18.00
	024501		1/2												
	024502	24	3/8												
SL-26	024600	90	1/2	1/8x1/16	80	2.464	.277	.472	2.645	.999	.510	.190	1.750	1.465	18.00
	024602		24													1/2
	024700	90	1/2												
SL-30	024701	90	5/8	1/8x1/16	125	2.800	.250	.830	3.268	1.374	.442	.170	2.050	1.695	terminals
	024702		24													1/2
	024703	5/8	3/16x3/32												
SL-42	024800	90	1/2	1/8x1/16	250	3.820	.320	1.560	4.270	1.374	.645	.190	2.500	2.312	terminals
	024801		5/8												
	024802	3/4													
	024803	24	1/2												
	024804	5/8	3/16x3/32												
024805	3/4	3/16x3/32													

★ Consult DODGE for other bore sizes

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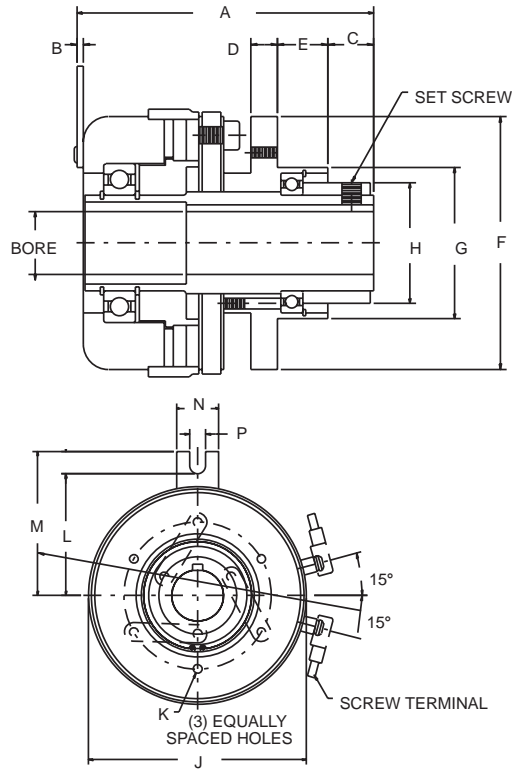


SELECTION/DIMENSIONS



BSL Series

The Shaft Mounted BSL SERIES clutches are engineered for easy installation. Two sizes are available for shaft diameters from 1/2" to 1". The BSL Armature Hub will accept sheaves, sprockets, gears or other typical power transmission drive components. BSL Clutches are plated for protection from the environment. The BSL units have a zero backlash armature hub assembly.

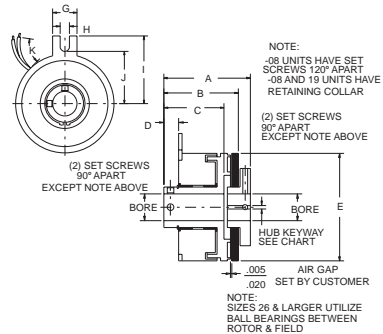


BSL Series Dimensions

SIZE	PART NO.	VOLTS	H BORE	ROTOR KEYWAY	SET SCREW	STATIC TORQUE (LB-IN.)	A MAX	B NOM	C MAX	D MAX	E ±.005	F MAX	G PILOT DIA.	H MAX	J MAX	K	L MAX	M ±.015	N MAX	P MIN.
BSL-26	024900	90	1/2	1/8x1/16	#10-32	80	2.93	.06	.45	.265	.50	2.505	1.499 1.497	1.195	2.65	(3) 6-32 on 1.790 B.C.	1.482	1.750	.510	.190
	024901	90	5/8	3/16x3/32																
	024902	24	1/2	1/8x1/16																
	024903	24	5/8	3/16x3/32																
BSL-42	025100	90	7/8	3/16x3/32	1/4-28	250	3.35	.06	.41	.282	.673	4.015	3.000 2.998	1.82	4.27	(3) 1/4-20 on 3.500 B.C.	2.223	2.500	.545	.190
	025101	90	1	1/4x1/8																
	025102	24	7/8	3/16x3/32																
	025103	24	1	1/4x1/8																

★ Consult DODGE for other bore sizes

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SO Series

The Shaft Mounted SO SERIES Clutches are engineered for easy installation. Nine sizes are available for shaft diameters from 3/16" to 1". SO Clutches are plated for protection from the environment and have a zero backlash armature hub assembly.

SO Series Dimensions

SIZE	PART NO.	VOLTS DC	BORE IN. ★	ROTOR KEYWAY	STATIC TORQUE (LB.-IN.)	A MAX	B MAX	C MAX	D MAX	E MAX	G MAX	H MIN	I NOM	J NOM	K ±.500
SO-08	029000	90	3/16	set screws	2.5	1.059	.875	.763	.200	.903	.305	.094	.625	.445	12.0
	029001		1/4												
	029002	24	3/16												
SO-11	029003	90	1/4	set screws	6	1.168	.933	.777	.164	1.160	.380	.122	.875	.585	12.0
	029004		5/16												
	029005	24	1/4												
SO-15	029006	90	5/16	set screws	10	1.575	1.255	1.075	.295	1.500	.520	.180	1.120	.750	12.0
	029007		3/8												
	029008	24	5/16												
SO-17	029009	90	3/8	set screws	15	1.605	1.311	1.060	.301	1.780	.505	.184	1.325	.975	12.0
	029010		5/16												
	029011	24	3/8												
SO-19	029012	90	5/16	1/16x1/32	25	1.609	1.314	1.060	.301	2.000	.505	.184	1.325	.975	12.0
	029013		3/8	3/32x3/64											
	029014	24	5/16	1/16x1/32											
SO-22	029015	90	3/8	3/32x3/64	50	1.989	1.578	1.273	.316	2.260	.442	.170	1.515	1.160	18.0
	029016		1/2	1/8x1/16											
	029017	24	3/8	3/32x3/64											
SO-26	029018	90	1/2	1/8x1/16	80	2.115	1.754	1.444	.302	2.645	.510	.190	1.750	1.465	18.0
	029019		3/8	3/32x3/64											
	029020	24	1/2	1/8x1/16											
SO-30	029021	90	5/8	3/16x3/32	125	2.130	1.795	1.390	.270	3.268	.442	.170	2.050	1.695	screw terminals
	029022		1/2	1/8x1/16											
	029023	24	3/8	3/32x3/64											
SO-42	029024	90	1/2	1/8x1/16	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029025		5/8	3/16x3/32											
	029026	24	1/2	1/8x1/16											
SO-42	029027	90	5/8	3/16x3/32	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029028		1/2	1/8x1/16											
	029029	24	5/8	3/16x3/32											
SO-42	029030	90	7/8	3/16x3/32	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029031		1	1/4x1/8											
	029032	24	5/8	3/16x3/32											
SO-42	029033	90	1/2	1/8x1/16	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029034		5/8	3/16x3/32											
	029035	24	1/2	1/8x1/16											
SO-42	029036	90	3/4	3/16x3/32	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029037		7/8	3/16x3/32											
	029038	24	1	1/4x1/8											
SO-42	029039	90	1/2	1/8x1/16	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029040		5/8	3/16x3/32											
	029041	24	3/4	3/16x3/32											
SO-42	029042	90	7/8	3/16x3/32	250	2.570	2.050	1.625	.340	4.270	.645	.190	2.500	2.312	screw terminals
	029043		1	1/4x1/8											

● Other voltages available on request

★ Consult DODGE for other bore sizes

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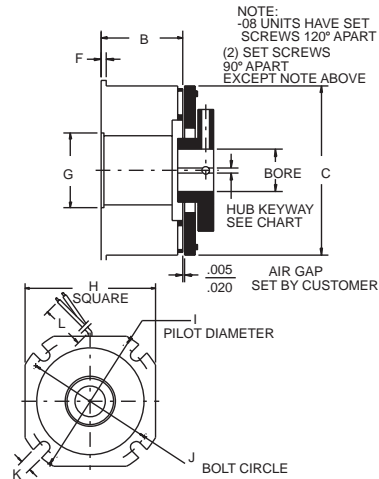


SELECTION/DIMENSIONS



FB Series

The FB Flange Mounted Electric Brakes are designed for easy installation. These power on brakes engage when voltage is applied and release when the voltage is turned off. FB Brakes are available in nine sizes in shaft diameters from 3/16" to 1". These brakes can be used to accurately and repetitively decelerate inertial loads or to control web tension. (Contact application engineering for application assistance.) They incorporate zero backlash style armature assembly.



FB Series Dimensions

SIZE	PART No.	VOLTS DC	BORE IN. ★	NOMINAL KEYWAY	STATIC TORQUE (LB.-IN.)	A MAX	B NOM	C MAX	F MAX	G ±.001	H MAX	I ±.001	J NOM	K MIN	L ±.500
FB-08	025200	90	3/16	set screws	2.5	.885	.634	.905	.034	N.A.	.980	1.1995	1.030	.094	12.00
	025201		1/4												
	025202	24	3/16												
	025203		1/4												
FB-11	025300	90	1/4	set screws	6	.974	.650	1.160	.052	N.A.	1.230	1.498	1.312	.123	12.00
	025301		5/16												
	025302	24	1/4												
	025303		5/16												
FB-15	025400	90	5/16	set screws	10	1.304	.867	1.500	.063	N.A.	1.567	1.999	1.750	.156	12.00
	025401		3/8												
	025402	24	5/16												
	025403		3/8												
FB-17	025500	90	5/16	1/16x1/32 3/32x3/64	15	1.269	.848	1.780	.064	0.751	1.943	2.436	2.125	.186	12.00
	025501		3/8												
	025502	24	5/16												
	025503		3/8												
FB-19	025600	90	3/8	3/32x3/64 1/8x1/16	25	1.33	.901	2.00	.062	0.751	1.943	2.436	2.125	0.186	12.00
	025601		1/2												
	025602	24	3/8												
	025603		1/2												
FB-22	025700	90	3/8	3/32x3/64 1/8x1/16	50	1.757	1.173	2.260	.096	1.001	2.322	2.873	2.500	0.160	18.00
	025701		1/2												
	025702	24	3/8												
	025703		1/2												
FB-26	025800	90	1/2	1/8x1/16 3/16x3/32	80	1.815	1.300	2.645	.064	1.062	2.630	3.499	3.125	0.182	18.00
	025801		5/8												
	025802	24	1/2x5/8												
	025803		3/16x3/32												
FB-30	025900	90	5/8	3/16x3/32	125	1.9	1.310	3.268	.097	1.751	3.200	4.186	3.750	0.182	terminals
	025901		3/4												
	025902	24	5/8												
	025903		3/4												
FB-42	026000	90	5/8	3/16x3/32 3/16x3/32 3/16x3/32	250	2.28	1.490	4.270	.097	1.875	4.255	5.624	5.000	0.276	terminals
	026001		3/4												
	026004		7/8												
	026005		1												
	026002	24	5/8	3/16x3/32 3/16x3/32 3/16x3/32											
	026003		3/4												
	026006		7/8												
	026007		1												

★ Consult DODGE for other bore sizes

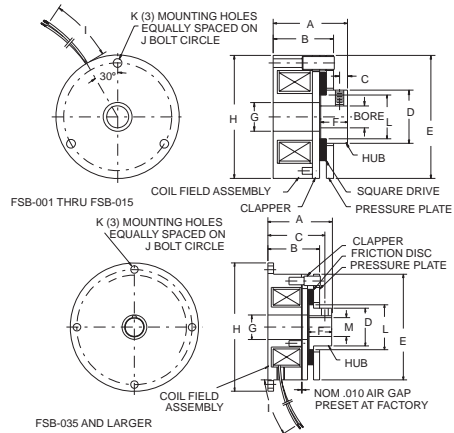
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FSB Series

FSB SERIES Power Off Brakes are designed to decelerate or park inertial loads when the voltage is turned off, either intentionally or accidentally (as in the case of a power failure). These units can be bulkhead or motor mounted and are available in seven torque ranges and shaft sizes 3/16" to 3/4". These units employ unique friction material for long life and quiet operation.

FSB Series Dimensions



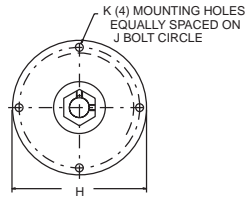
SIZE	PART NO.	VOLTS	BORE IN.★	NOMINAL KEYWAY	STATIC TORQUE (LB.-IN.)	A MAX	B NOM	C NOM	D MAX	E MAX	F MIN	G NOM	H MAX	I ±.500	J NOM	K MIN
FSB-001	026100	90 DC	3/16		1	0.890	.710	.072	.510	1.485	.320	.280	1.375	12.0	1.180	.124
	026101	90 DC	1/4													
	026102	24 DC	3/16	set screws												
	026103	24 DC	1/4													
	026104	120 AC	3/16													
026105	120 AC	1/4														
FSB-003	026200	90 DC	1/4		3	1.060	.870	.115	0.755	1.910	.380	.410	1.752	12.0	1.545	.124
	026201	90 DC	5/16													
	026202	24 DC	1/4	set screws												
	026203	24 DC	5/16													
	026204	120 AC	1/4													
026205	120 AC	5/16														
FSB-007	026300	90 DC	5/16	1/16x1/32	7	1.400	1.200	1.255	0.722	2.465	.605	.781	2.436	12.0	2.125	.172
	026301	90 DC	3/8	3/32x3/64												
	026302	24 DC	5/16	1/16x1/32												
	026303	24 DC	3/8	3/32x3/64												
	026304	120 AC	5/16	1/16x1/32												
026305	120 AC	3/8	3/32x3/64													
FSB-015	026400	90 DC	5/16	1/16x1/32	15	1.400	1.200	1.255	0.722	2.465	.605	.781	2.436	12.0	2.125	0.172
	026401	90 DC	3/8	3/32x3/64												
	026402	24 DC	5/16	1/16x1/32												
	026403	24 DC	3/8	3/32x3/64												
	026404	120 AC	5/16	1/16x1/32												
026405	120 AC	3/8	3/32x3/64													
FSB-035	026500	90 DC	1/2	1/8x1/16	35	2.090	1.920	1.960	1.000	3.010	.580	.891	3.500	18.0	3.125	0.200
	026501	24 DC	5/8	3/16x3/32												
	026502	24 DC	1/2	1/8x1/16												
	026503	24 DC	5/8	3/16x3/32												
	026504	120 AC	1/2	1/8x1/16												
026505	120 AC	5/8	3/16x3/32													
FSB-050	026600	90 DC	1/2	1/8x1/16	50	2.090	1.920	1.960	1.000	3.010	.580	.891	3.500	18.0	3.125	0.200
	026601	90 DC	5/8	3/16x3/32												
	026602	24 DC	1/2	1/8x1/16												
	026603	24 DC	5/8	3/16x3/32												
	026604	120 AC	1/2	1/8x1/16												
026605	120 AC	5/8	3/16x3/32													
FSB-100	026800	90 DC	5/8		100	2.320	2.080	2.100	.975	4.000	.555	1.188	5.250	18.0	4.750	0.216
	026801	90 DC	3/4													
	026802	24 DC	5/8	3/16x3/32												
	026803	24 DC	3/4													
	026804	120 AC	5/8													
026805	120 AC	3/4														

★ Consult DODGE for other bore sizes

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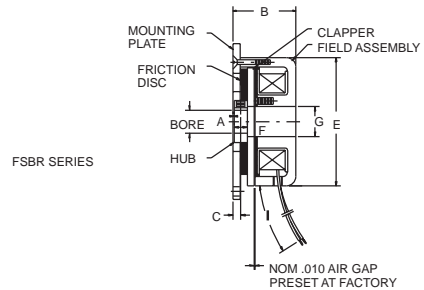


SELECTION/DIMENSIONS



FSBR Series

FSBR SERIES Power Off Brakes are designed for applications requiring minimum space or on motors with short shaft extensions. When mounted, the armature hub on these units is not exposed like the FSB series. These units are available in five torque ranges and shaft sizes from 5/16" thru 3/4". Unique friction material is employed for long wear life and quiet operation.



SIZE	PART NO.	VOLTS	BORE IN. ★	NOMINAL KEYWAY	STATIC TORQUE (LB.-IN.)	A ● MAX	B NOM	C NOM	E MAX	F MIN	G NOM	H MAX	I .500	J NOM	K MIN
FSBR-007	26900	90 DC	5/16	1/16x1/32	7	.062	.960	.115	2.260	.605	.781	3.235	12.0	2.844	.172
	26901	90 DC	3/8	3/32x3/64											
	26902	24 DC	5/16	1/16x1/32											
	26903	24 DC	3/8	3/32x3/64											
	26904	120 AC	5/16	1/16x1/32											
26905	120 AC	3/8	3/32x3/64												
FSBR-015	27000	90 DC	5/16	1/16x1/32	15	.062	1.200	.115	2.400	.605	.945	3.235	12.0	2.844	.172
	27001	90 DC	3/8	3/32x3/64											
	27002	24 DC	5/16	1/16x1/32											
	27003	24 DC	3/8	3/32x3/64											
	27004	120 AC	5/16	1/16x1/32											
	27005	120 AC	3/8	3/16x3/32											
FSBR-035	27100	90 DC	1/2	1/8x1/16	35	.094	1.905	.239	2.810	.280	.891	3.500	18.0	3.125	.200
	27101	90 DC	5/8	3/16x3/32											
	27102	24 DC	1/2	1/8x1/16											
	27103	24 DC	5/8	3/16x3/32											
	27104	120 AC	1/2	1/8x1/16											
	27105	120 AC	5/8	3/16x3/32											
FSBR-050	27200	90 DC	1/2	1/8x1/16	50	.094	1.905	.239	2.810	.280	.891	3.500	18.0	3.125	.200
	27201	90 DC	5/8	3/16x3/32											
	27202	24 DC	1/2	1/8x1/16											
	27203	24 DC	5/8	3/16x3/32											
	27204	120 AC	1/2	1/8x1/16											
	27205	120 AC	5/8	3/16x3/32											
FSBR-100	27400	90 DC	5/8	3/16x3/32	100	.140	1.870	.610	4.000	.575	1.188	5.250	18.0	4.750	.216
	27401	90 DC	3/4												
	27402	24 DC	5/8												
	27403	24 DC	3/4												
	27404	120 AC	5/8												
	27405	120 AC	3/4												

● Required distance between Hub & Mounting surface

★ Consult DODGE for other bore sizes



Power Supplies



Model 50 - Conduit box Supply

- Controls one Brake or Clutch
- Input: 120 VAC; 50/60 Hz
- Output: 90 VDC
- Rating: 0.8 amps
- Full wave rectifier
- Dimensions: 5/8" H, 2" W, 1-3/8" D
- Part Number **032408**



Model 75 - Conduit Box Supply

- Controls one Brake or Clutch
- Input: 230 VAC; 50/60 Hz, 1 Phase
- Output: 90 VDC Nominal
- Rating: 0.4 amp Maximum
- Dimensions: 0.62" H, 1.40" W, 0.90" D
- Part Number: **030336**



Octal Socket

- Socket used with Model 100 and 200 octal bases
- Prewired
- U. L. approved
- Industry Standard design
- Dimensions: 3/4" H, 2 1/2" W, 2" D
- Part Number: **032401**



Model 100-Octal Base Mount

- Controls one brake or clutch
- Used with octal socket
- Full wave rectifier
- Input: 120 VAC; 50/60 Hz
- Output: 90 VDC
- Rating: 1.5 amps
- Dimensions: 2" H, 2" W, 2" D
- Part Number: **032400**

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MODIFICATIONS/ ACCESSORIES



Power Supplies



Model 200-Octal Base Mount w/Fuse

- Controls one brake and clutch, or two clutches or two brakes
- Input: 120 VAC; 50/60 Hz fused
- Output: 90 VDC
- Used with octal socket
- Full wave rectifier
- Rating: 1.5 amps
- Fused for overload protection
- Dimensions: 2 1/2, H, 2, W, 2, D
- Part Number: **032402**



Model 250 - Octal Base Mount

- Controls one Brake and Clutch; or two Clutches or two Brakes
- Used with Octal Socket
- Input: 115 VAC; 50/60 Hz
- Output: 15-90 VDC Nominal one unit, 90 VDC for the other unit
- Rating: 0.5 amp Maximum
- Dimensions: 2.88" H, 2.38" W, 1.75" D
- Part Number: **030337**



Motor Brakes

MOTOR BRAKE COIL DATA

DODGE D-Series motor brakes are equipped with DC voltage coils which are capable of a variety of nameplate voltage possibilities. Please consult Voltage Notes below the chart for these capabilities.

Coil Voltage	3 and 6 Ft.-Lb		10 thru 50 Ft.-Lb	
	Current Draw (Amps)	Resistance (Ohms)	Current Draw (Amps)	Resistance (Ohms)
115/230 VAC 60 Hz (1)	0.19	562	0.28	387
230/460 VAC 60 Hz (2)	0.10	2078	0.14	1550
287/575 VAC 60 Hz (3)	0.09	2987	0.12	2245
104/208 VAC 60 Hz (4)	0.24	384	0.31	290
190/380 VAC 50 Hz (5)	0.13	1341	0.19	923
250/500 VAC 50 Hz	0.10	2336	0.13	1793
48 VDC	0.48	100	0.58	82
24 VDC	0.97	24.70	1.14	21.70
12 VDC	1.95	6.16	2.24	5.40

Voltage News:

- (1) 115/208-230 VAC 50 or 60 Hz, 133/265 VAC 60 Hz, 110-125 VDC
- (2) 208-230/460 VAC 50 or 60 Hz, 240/480 VAC 60 Hz, 220/440 VAC 50 Hz, 230 VDC
- (3) 287/575 VAC 60 Hz, 275/550 VAC 60 Hz, 300/600 VAC 60 Hz
- (4) 104/208 VAC 50 or 60 Hz, 100/200 VAC 60 Hz 90-95 VDC
- (5) 190/380 VAC 50 Hz, 260/400 VAC 60 Hz, 208/416 VAC 50 Hz

General Notes:

- (1) Current and Resistance values are approximate only.
- (2) Current and Resistance for other nameplate voltages may vary slightly. Consult DODGE Engineering for actual values
- (3) Coil Resistance is measured between leads B4 and B5.

ELECTRICAL CONNECTIONS

Standard DODGE D-Series motor brakes operate on single phase, dual voltage AC.

Connections should be made per Chart 1 (similar chart is also included in a label on the brake). To change the operating voltage, simply change the wiring connections per Chart 1.

CHART 1

Voltage	Power Line A	Power Line B	Insulate Together	Insulate Alone
AC Voltage-Low(1)	B1	B2	B3 & B5	B4
AC Voltage-High(1)	B1 B5	B2	-	B3 B4
DC Voltage-Low	B1	B2	B3 & B5	B4

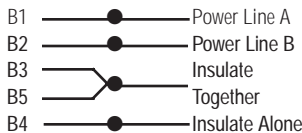
Notes:

- (1) Unless specified, all brakes have dual voltage coils. For example, with a 230/460 VAC brake, low voltage = 230 VAC and high voltage = 460 VAC.

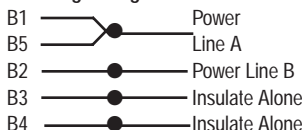
When changing brake wiring connections for operation at another voltage, be sure to verify the brake's compatibility with the voltage desired.

Consult Instruction Manual #499765 for complete details on Electrical Connections of DODGE D-Series motor brakes.

AC Voltage - Low and DC Voltage



AC Voltage - High





Clutch/Brake Modules

TECHNICAL DATA

Module Size	Static Torque (Lb.-Ft.)	Inertia (Lb.-Ft.(²))		Unit Weight (Lbs.)	90 VDC				24 VDC				6 VDC			
		Rotor & Hub	Armature & Shaft		Clutch		Brake		Clutch		Brake		Clutch		Brake	
					Amps	Ohms	Amps	Ohms	Amps	Ohms	Amps	Ohms	Amps	Ohms	Amps	Ohms
DMCCB-50	22	.022	.017	11.8	.207	434	.196	460	.797	30.1	.800	30	3.23	.186	3.05	1.97
DMCCO-50		.022	.010	9.9	.207	434	---	---	.797	30.1	---	---	3.23	---	---	---
DMCBO-50		---	.009	6.1	---	---	.196	460	---	---	.800	30	---	---	3.05	1.97
DMCBX-50		---	.009	6.1	---	---	.196	460	---	---	.800	30	---	---	3.05	1.97
DMSCB-50		.023	.017	16.2	.207	434	.196	460	.797	30.1	.800	30	3.23	.186	3.05	1.97
DMSCO-50		.023	.010	14.3	.207	434	---	---	.797	30.1	---	---	3.23	.186	---	---
DMCCB-100	34	.050	.049	11.9	.208	432	.189	476	.805	29.8	.743	32.3	3.23	.186	2.91	2.06
DMCCO-100		.050	.027	10	.208	432	---	---	.805	29.8	---	---	3.23	.186	---	---
DMCBO-100		---	.026	6.2	---	---	.189	476	---	---	.743	32.3	---	---	2.91	2.06
DMCBX-100		---	.026	6.2	---	---	.189	476	---	---	.743	32.3	---	---	2.91	2.06
DMCCB-180	34	.051	.050	15.9	.208	432	.189	476	.805	29.8	.743	32.3	3.23	.186	2.91	2.06
DMCCO-180		.051	.028	12.5	.208	432	---	---	.805	29.8	---	---	3.23	.186	---	---
DMCBO-180		---	.027	7.2	---	---	.189	476	---	---	.743	32.3	---	---	2.91	2.06
DMCBX-180		---	.027	7.2	---	---	.189	476	---	---	.743	32.3	---	---	2.91	2.06
DMSCB-180		.049	.050	19.6	.208	432	.189	476	.805	29.8	.743	32.3	3.23	.186	2.91	2.06
DMSCO-180		.049	.028	16.2	.208	432	---	---	.805	29.8	---	---	3.23	.186	---	---
DMCCB-210	100	.233	.196	44.2	.390	231	.360	250	1.61	14.9	1.480	16.2	6.67	.900	6.59	0.91
DMCCO-210		.233	.113	38.2	.390	231	---	---	1.61	14.9	---	16.2	6.67	.900	---	---
DMCBO-210		---	.100	28	---	---	.360	250	---	---	1.480	---	---	---	6.59	0.91
DMCBX-210		---	.100	28	---	---	.360	250	---	---	1.480	---	---	---	6.59	0.91
DMSCB-210		.240	.190	59.5	.390	231	.360	250	1.61	14.9	1.480	16.2	6.67	.900	6.59	0.91
DMSCO-210		.240	.190	53.5	.390	231	---	---	1.61	14.9	---	16.2	6.67	.900	---	---
DMCCB-256	100	.230	.200	44.4	.390	231	.360	250	1.61	14.9	1.480	16.2	6.67	.900	6.59	0.91
DMCCO-256		.230	.110	38.4	.390	231	---	---	1.61	14.9	---	---	6.67	.900	---	---
DMCBO-256		---	.110	28.2	---	---	.360	250	---	---	1.480	16.2	---	---	6.59	0.91
DMCBX-256		---	.110	28.2	---	---	.360	250	---	---	1.480	16.2	---	---	6.59	0.91

Consult DODGE for other voltages



Shaft Mounted Clutches & Brakes

IEC SERIES SHAFT MOUNTED CLUTCHES

Unit Size	Static Torque (Lb-Ft.)	Max RPM	Inertia (Lb-Ft. ²)		90 VDC		24 VDC		6 VDC		Wt.(Lbs.)
			Rotor & Sleeve	Armature & Sleeve	Amps	Ohms	Amps	Ohms	Amps	Ohms	
IEC-375	22	5000	0.022	0.01	0.207	434	0.797	30.1	3.23	1.86	5.5
IEC-475	34	4500	0.052	0.027	0.208	432	0.805	29.8	3.23	1.86	9
IEC-650	100	3600	0.214	0.107	0.39	231	1.61	14.9	6.67	0.9	19.5
IEC-825	175	3600	0.417	0.268	0.405	222	1.66	14.5	5.41	1.11	29

Consult DODGE for other voltages.

IEB SERIES SHAFT MOUNTED BRAKES/IPB SERIES FLANGE MOUNTED BRAKES

Unit Size	Static Torque (Lb-Ft.)	Max Speed RPM	Inertia (Lb-Ft ²) Armature & Hub	90 VDC		24 VDC		6 VDC		Brake Wt. (Lbs.)	Bore Range (In.)	DODGE TAPER Lock Bushing
				Amps	Ohms	Amps	Ohms	Amps	Ohms			
IEB/IPB-375	22	5000	.010	.196	460	.800	30.00	3.05	1.97	4	1/2" & 5/8"	N/A
IEB/IPB-475	34	4500	.029	.189	476	.743	32.30	2.91	2.06	6	1/2" to 1"	1008
IEB/IPB-650	100	3600	0.11	.360	250	1.48	16.20	6.59	0.91	11	1/2" to 1-7/16"	1310
IEB-825	175	3600	0.33	.405	222	1.66	14.50	5.41	1.11	19	1/2" to 1-11/16"	1615

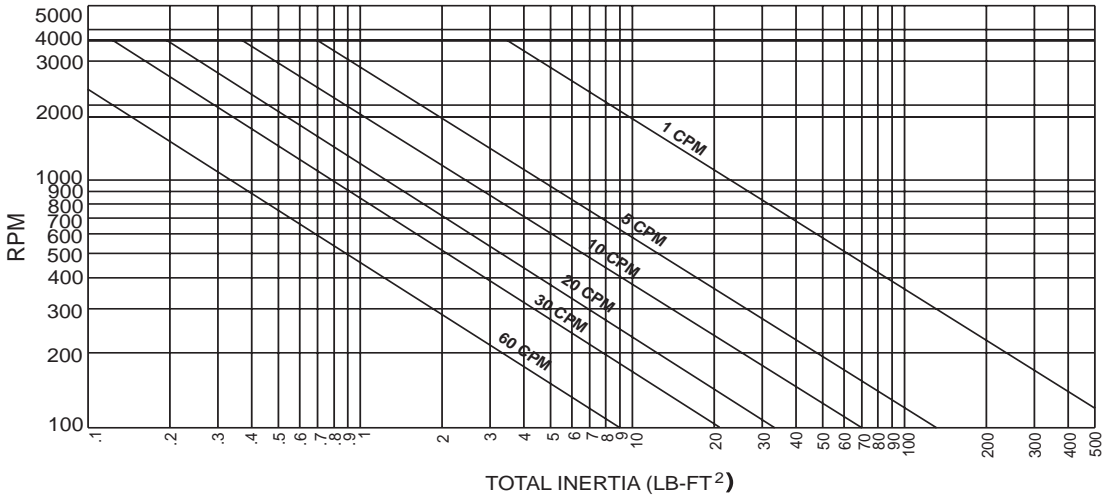
Consult DODGE for other voltages.

* See page CB-53 (1-1R)

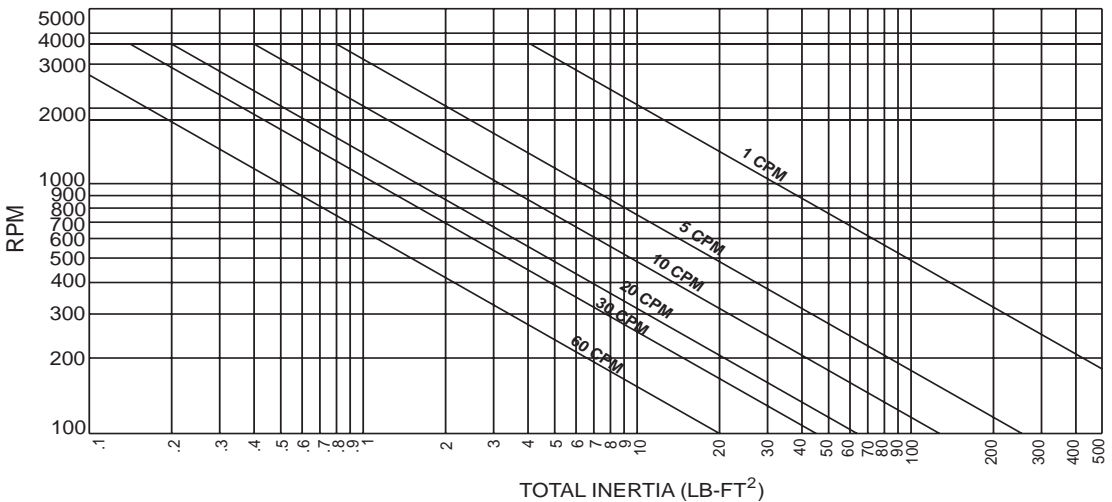


Clutch/Brake Modules ALLOWABLE CYCLE RATES

DMCCB-50



DMCCB-100



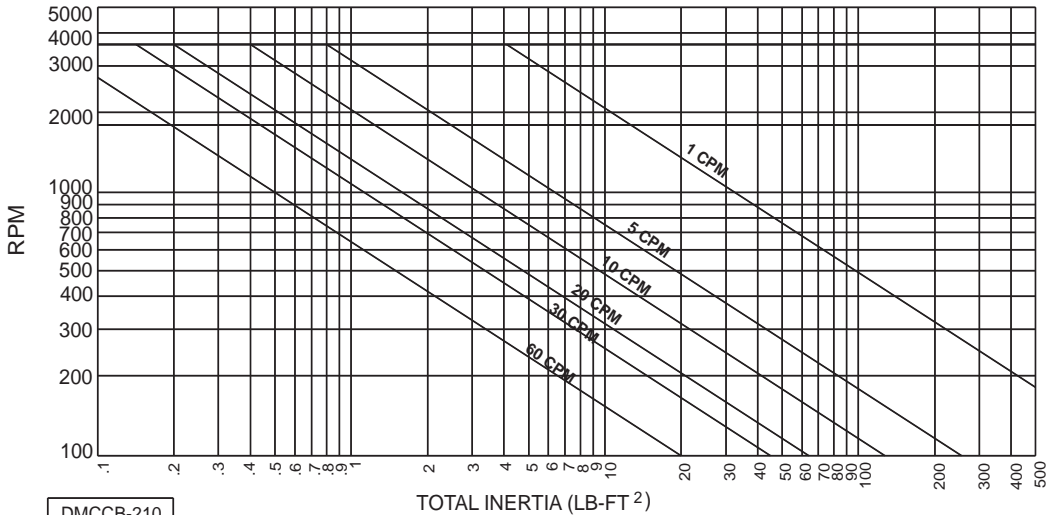
NOTES:

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 250°F
3. Motor fan cooled
4. 100% current

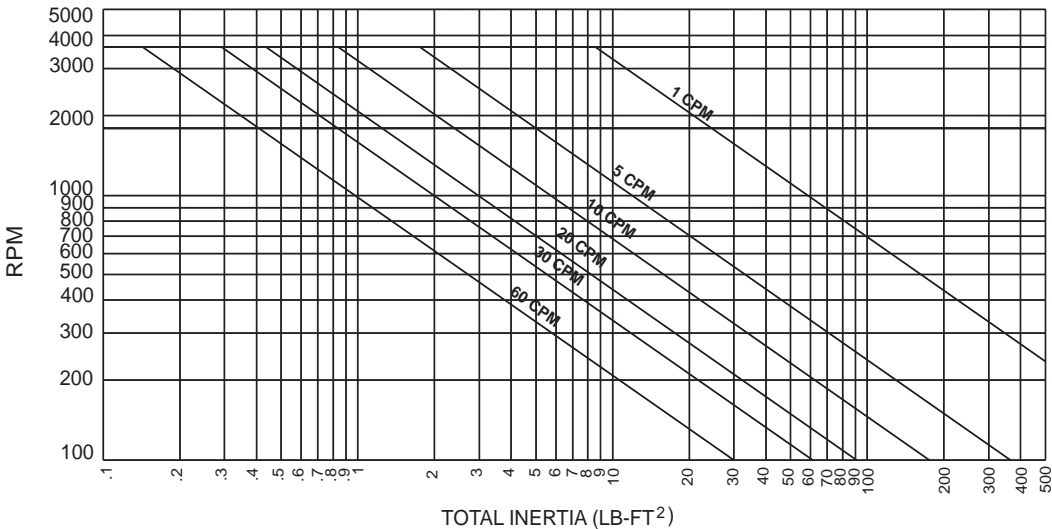


Clutch/Brake Modules
ALLOWABLE CYCLE RATES

DMCCB-180



DMCCB-210



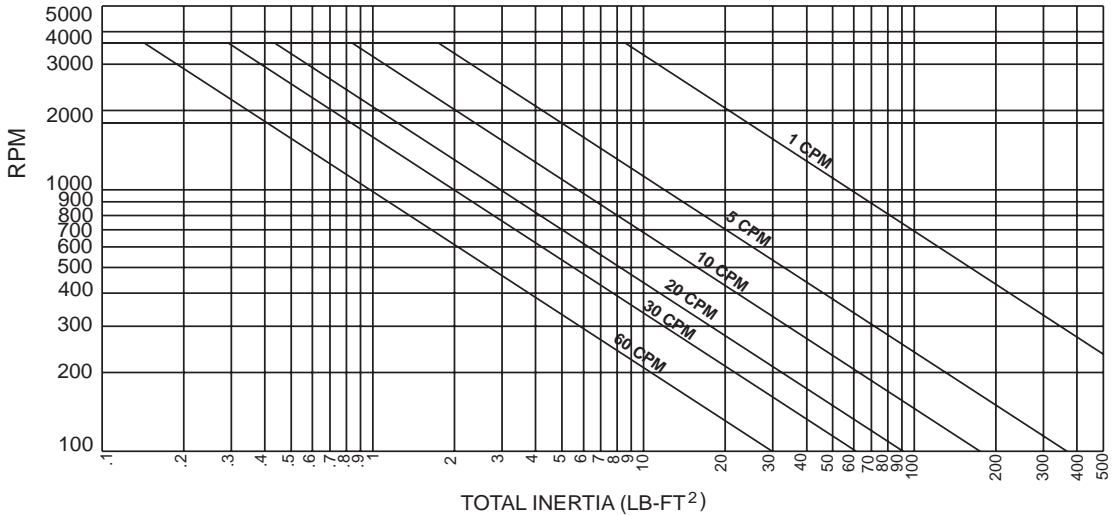
- NOTES:**
1. Consult DODGE for cycle rates that exceed chart.
 2. Max. coil temperature 2505F
 3. Motor fan cooled
 4. 100% current

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Clutch/Brake Modules ALLOWABLE CYCLE RATES

DMCCB-256

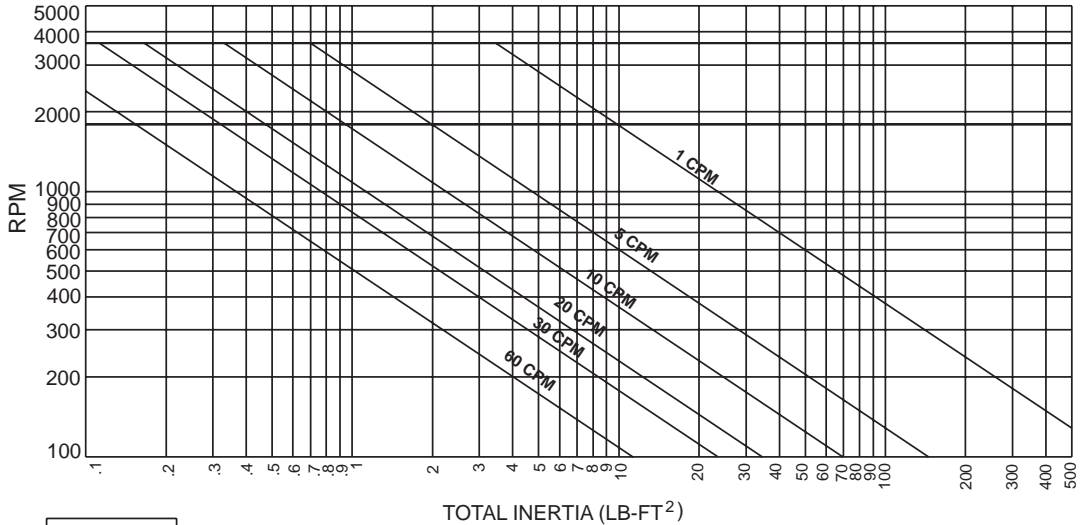
**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

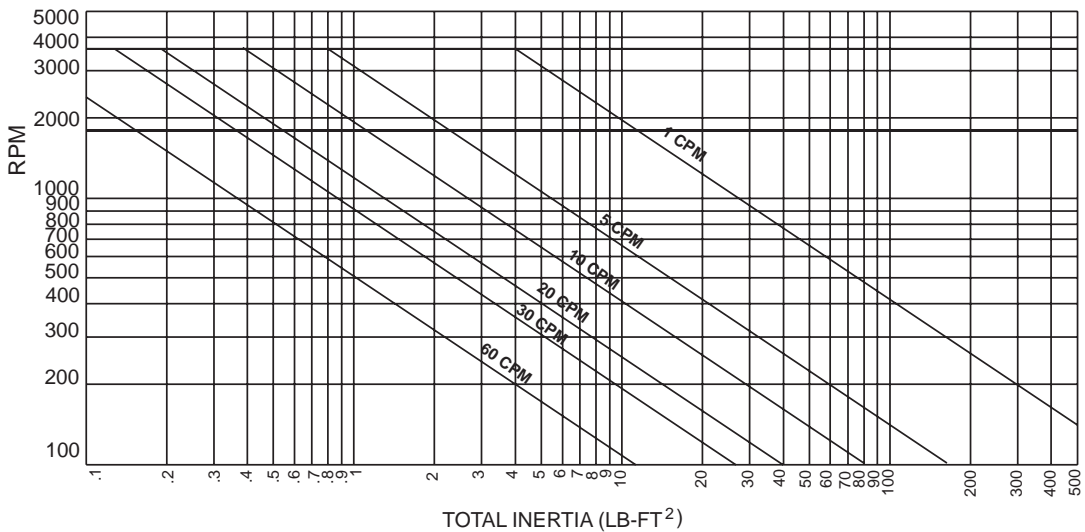


Clutch/Brake Modules
ALLOWABLE CYCLE RATES

DMCCO-50



DMCCO-100



NOTES:

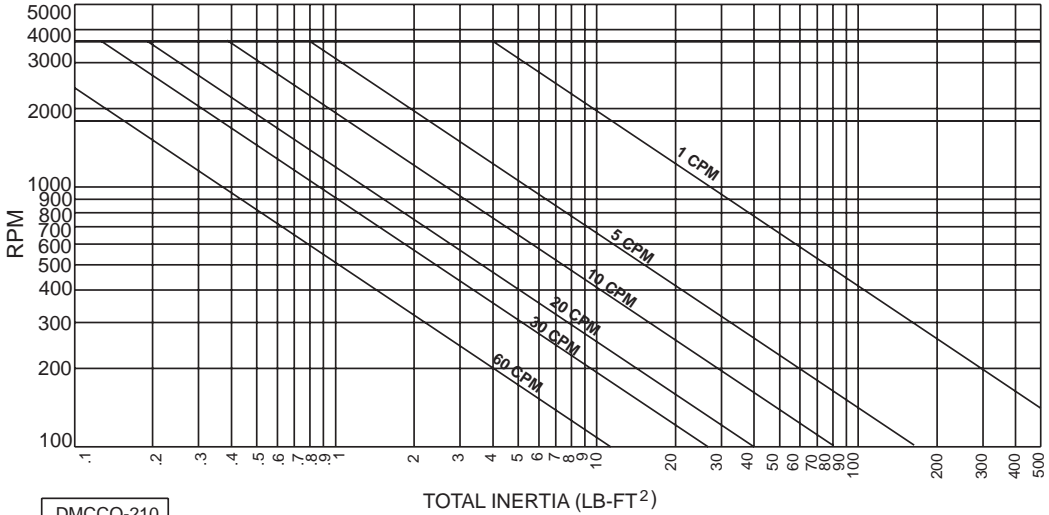
1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

EATURES/BENEFITS PAGE PT2-3	SPECIFICATION/HOW TO ORDER PAGE PT2-4	SELECTION/DIMENSIONS PAGE PT2-5	MODIFICATION PAGE PT2-11
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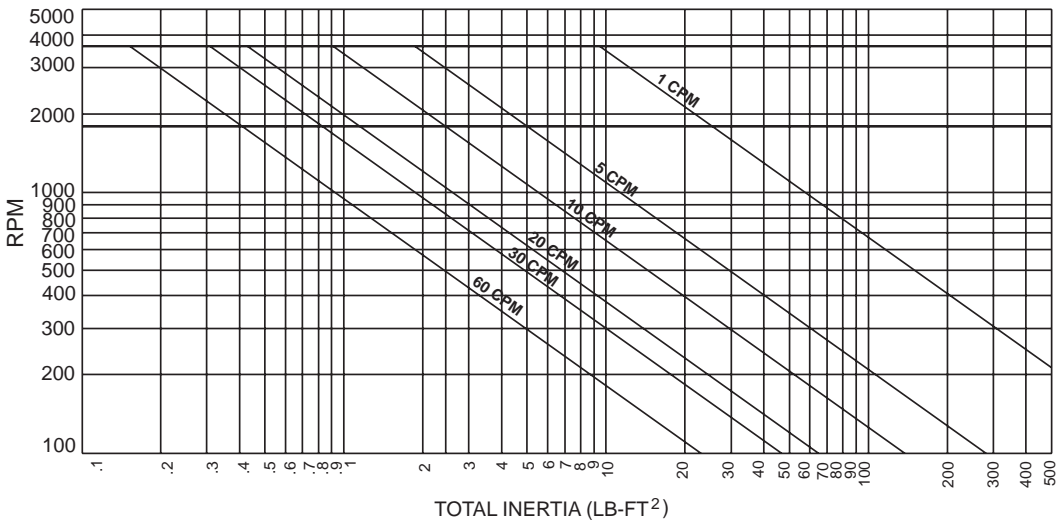


Clutch/Brake Modules ALLOWABLE CYCLE RATES

DMCCO-180



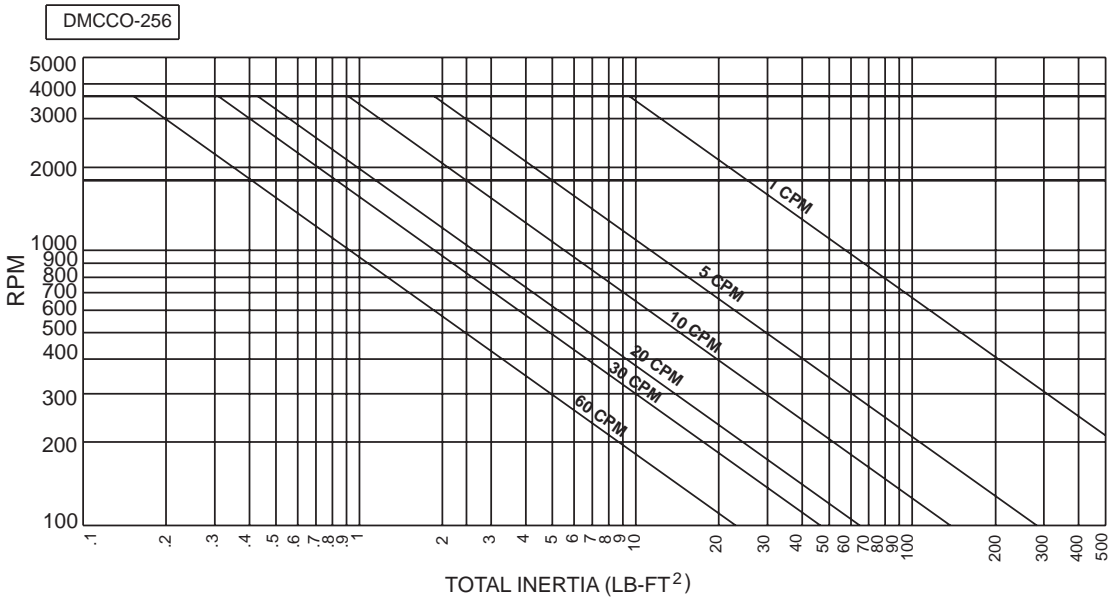
DMCCO-210



- NOTES:
1. Consult DODGE for cycle rates that exceed chart.
 2. Max. coil temperature 2505F
 3. Motor fan cooled
 4. 100% current



**Clutch/Brake Modules
ALLOWABLE CYCLE RATES**



NOTES:

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

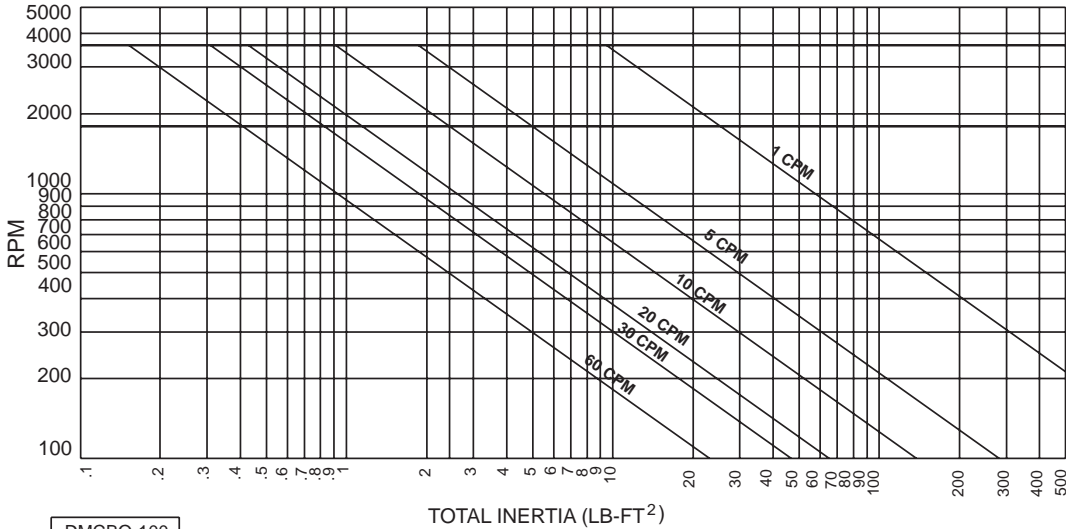
FEATURES/BENEFITS PAGE PT2-3	SPECIFICATION/HOW TO ORDER PAGE PT2-4	SELECTION/DIMENSIONS PAGE PT2-5	MODIFICATION PAGE PT2-11
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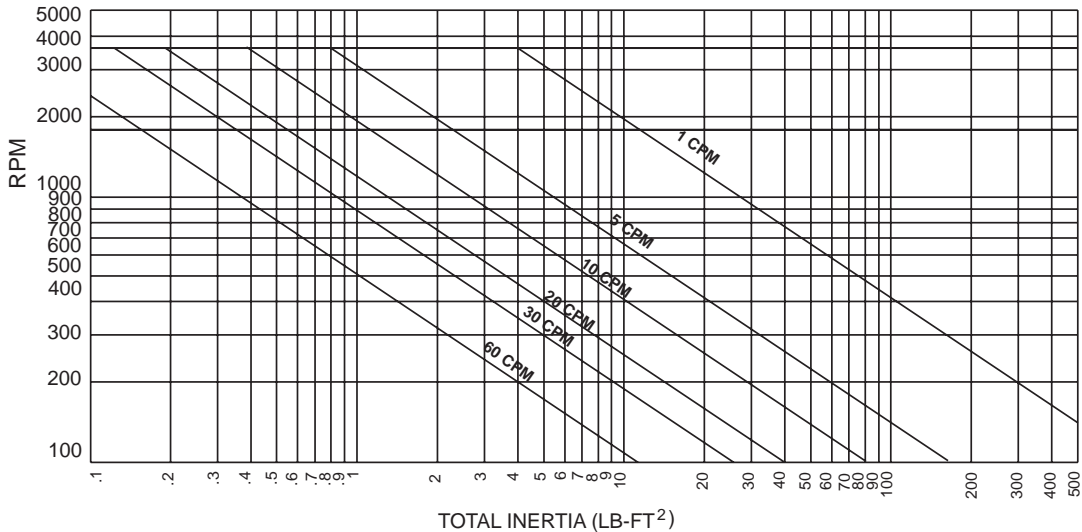
Clutch/Brake Modules

ALLOWABLE CYCLE RATES

DMCBO-50



DMCBO-100

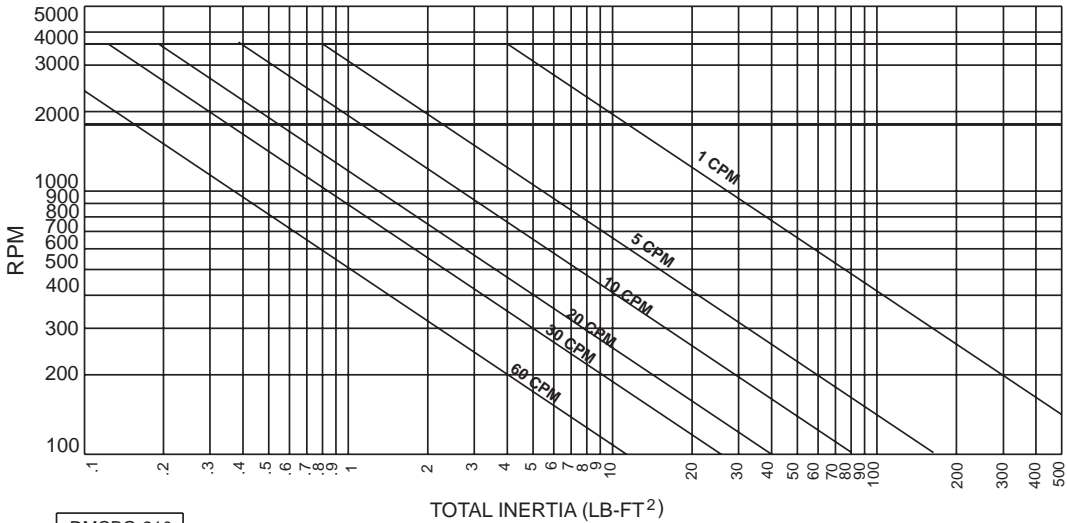
**NOTES:**

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

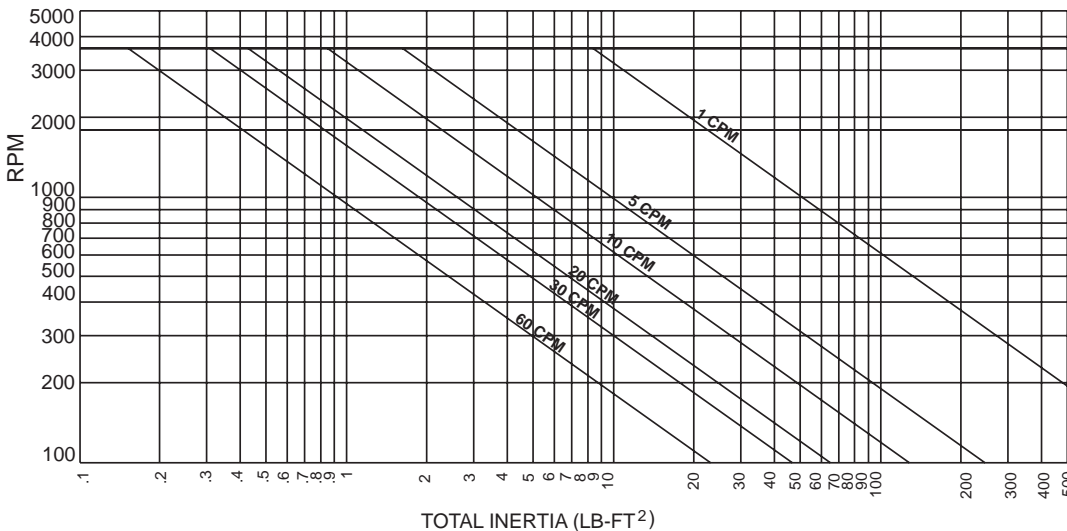


Clutch/Brake Modules
ALLOWABLE CYCLE RATES

DMCBO-180



DMCBO-210



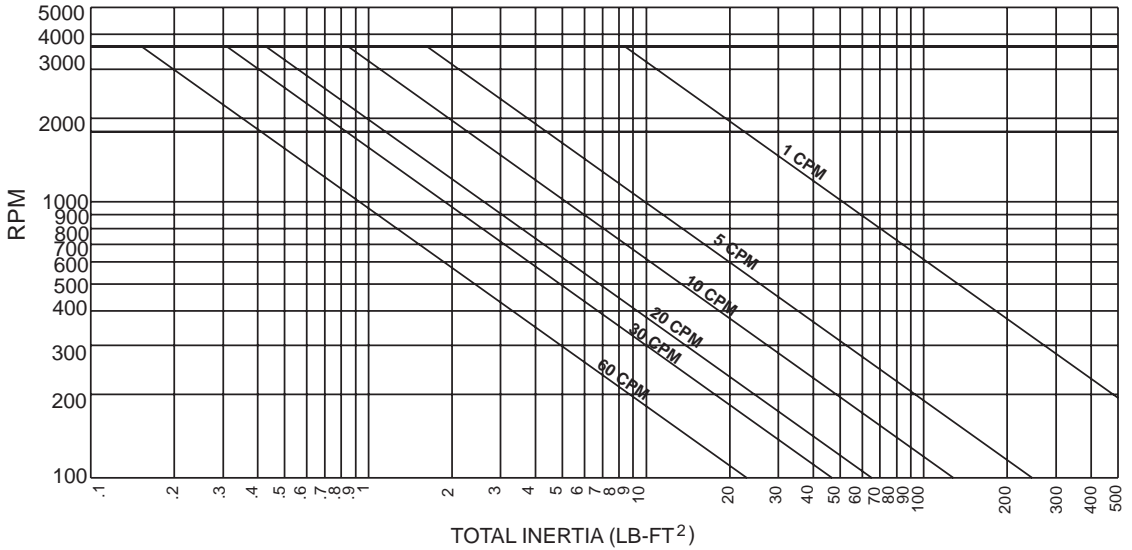
- NOTES:
1. Consult DODGE for cycle rates that exceed chart.
 2. Max. coil temperature 2505F
 3. Motor fan cooled
 4. 100% current

FEATURES/BENEFITS PAGE PT2-3	SPECIFICATION/HOW TO ORDER PAGE PT2-4	SELECTION/DIMENSIONS PAGE PT2-5	MODIFICATION PAGE PT2-11
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Clutch/Brake Modules ALLOWABLE CYCLE RATES

DMCBO-256



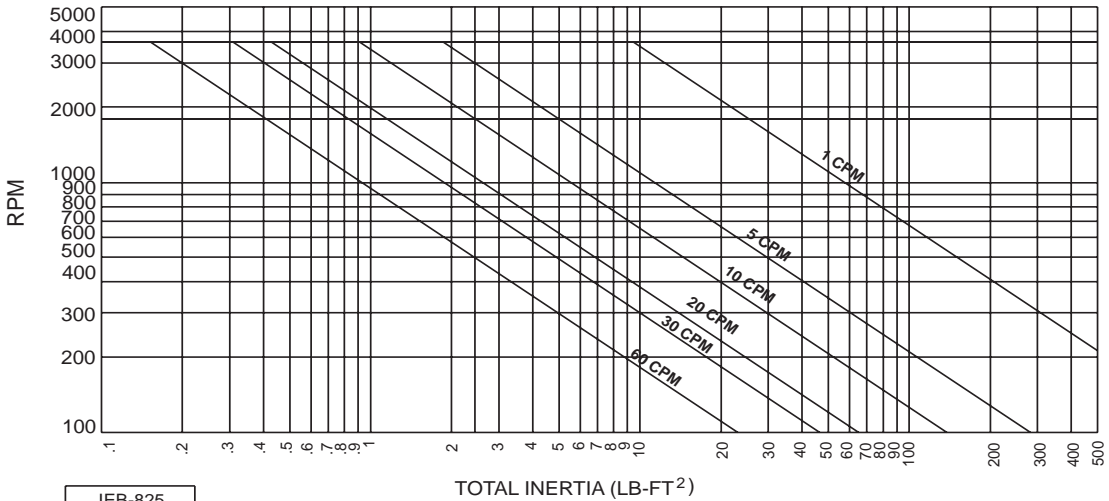
NOTES:

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

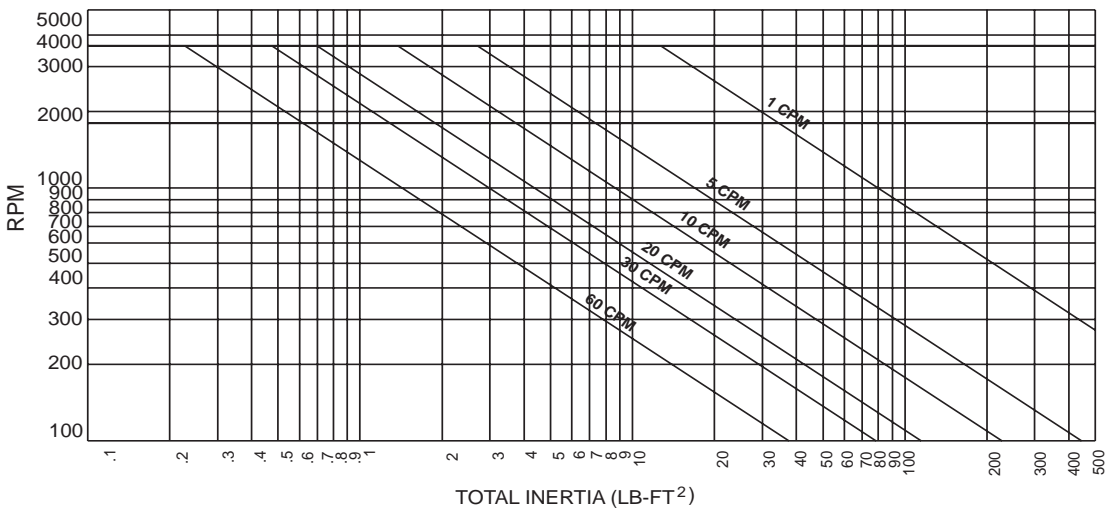


Clutch/Brake Modules
ALLOWABLE CYCLE RATES

IEC-825



IEB-825



NOTES:

1. Consult DODGE for cycle rates that exceed chart.
2. Max. coil temperature 2505F
3. Motor fan cooled
4. 100% current

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ENGINEERING/ TECHNICAL



Fractional HP

CLUTCHES

SL Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC	
		Rotor	Arm & Hub		Amps	Ohms	Amps	Ohms
SL-08	2.5	.002	.0015	2	.046	1977	.117	205
SL-11	6	.0058	.0029	3.2	.047	1930	.198	121
SL-15	10	.060	.0031	3.8	.042	2150	.183	132
SL-17	15	.061	.036	11	.066	1369	.289	83
SL-19	25	.082	.047	12	.074	1213	.294	81.6
SL-22	50	.215	.079	20	.079	1140	.322	74.6
SL-26	80	.362	.292	28	.088	1024	.358	67.1
SL-30	125	.610	.561	50	.091	988	.378	65.3
SL-42	250	2.50	2.30	85	.124	722	.468	51.2

BSL Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC	
		Rotor	Arm & Hub		Amps	Ohms	Amps	Ohms
BSL-26	80	.29	.53	38	.088	1024	.358	67.1
BSL-42	250	2.25	4.99	94	.124	722	.468	51.2

SO Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC	
		Rotor	Arm & Hub		Amps	Ohms	Amps	Ohms
SO-08	2.5	.002	.0011	2	.046	1977	.117	205
SO-11	6	.0058	.0024	3.2	.047	1930	.198	121
SO-15	10	.06	.026	3.8	.042	2150	.183	132
SO-17	15	.061	.031	11	.066	1369	.289	83
SO-19	25	.082	.042	12	.074	1213	.294	81.3
SO-22	50	.215	.070	20	.079	1140	.322	74.6
SO-26	80	.362	.320	28	.088	1024	.358	67.1
SO-30	125	.61	.561	45	.091	988	.378	65.3
SO-42	250	2.50	2.30	80	.124	722	.468	51.2

BRAKES

FB Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC	
		Arm & Hub			Amps	Ohms	Amps	Ohms
FB-08	2.5	.0011		2	.046	1977	.117	205
FB-11	6	.0024		3.2	.047	1930	.198	121
FB-15	10	.026		3.8	.042	2150	.183	132
FB-17	15	.031		11	.066	1369	.289	83
FB-19	25	.042		12	.074	1213	.294	81.6
FB-22	50	.070		20	.079	1140	.322	74.6
FB-26	10	.320		26	.088	1024	.358	67.1
FB-30	125	.561		35	.091	988	.378	65.3
FB-42	250	2.30		60	.124	722	.468	51.2

FSB Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC		120 v AC	
		Armature & Hub			Amps	Ohms	Amps	Ohms	Amps	Ohms
FSB-001	1	.0004		2	.051	1880	.220	117	.041	N.A.
FSB-002	3	.0017		3	.064	2177	.190	132	.050	N.A.
FSB-007	7	.0133		15	.059	1520	.247	97.3	.045	N.A.
FSB-015	15	.0133		16	.098	922	.369	65.1	.077	N.A.
FSB-035	35	.084		33	.093	964	.394	61	.073	N.A.
FSB-050	50	.084		36	.194	465	.717	35.5	.140	N.A.
FSB-100	100	.205		64	.180	501	.707	34	.142	N.A.

FSBR Series Technical Data

UNIT SIZE	Static Torque Lb.-In.	Inertia Lb.-In. ²		Wgt. Oz.	90 v DC		24 v DC		120 v AC	
		Armature & Hub			Amps	Ohms	Amps	Ohms	Amps	Ohms
FSB-001	7	.0133		11	.059	1520	.247	97.3	.045	N.A.
FSB-002	15	.0133		12	.098	922	.369	65.1	.077	N.A.
FSB-007	35	.084		24	.093	964	.394	61	.073	N.A.
FSB-015	50	.084		27	.194	465	.717	35.5	.140	N.A.
FSB-035	100	.205		56	.180	501	.707	34	.142	N.A.

Consult DODGE for other voltages.



FLEXIDYNE®

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FEATURES/BENEFITS



FLEXIDYNE

- **Smoother, Faster Acceleration**

- Smaller motors may be used
- Motor starts under no load conditions
- Smoother starts
- Starting torque can be easily customized

- **More Efficient Design**

- Permits use of standard NEMA Design B motors
- High torque or high slip motors not needed
- Reduced voltage starters not needed
- Wound rotor motors not needed

- **More Efficient Running**

- No slip at running speed means no wear, no heat, no power loss

- **Overload Protection**

- Provides overload protection at overloads somewhat greater than starting torque
- Protection devices to prevent damage to FLEXIDYNE are available

- **Low Current Draw**

- Less than twice the nameplate amperage during both starting and overload periods
- Many electric utilities recommend FLEXIDYNE

- **Increased Productivity**

- Eliminates product spillage and machine damage due to harsh starts or jammed loads



SPECIFICATION/HOW TO ORDER/NOMENCLATURE



FLEXIDYNE

SPECIFICATION

FLEXIDYNE is available in three designs: Drives, Couplings, and C-Flex Modules to meet most system needs. The Drive style is designed to mount directly on the motor shaft to provide an extremely compact unit for belted service. The Coupling style provides a versatile solution for transmitting torque between in-line shafts. The C-Flex Module style provides all of the benefits of regular FLEXIDYNE in a compact package that readily mounts between C-Face motors and reducers.

HOW TO ORDER

DRIVE STYLE
Specify mechanism size and bore size. Select a sheave from the selection tables found in the Modifications/Accessories section. Refer to the part number when ordering.

COUPLING STYLE
On size 5C - specify bore size. A complete coupling consists of (1) output hub and (1) mechanism. On larger sizes - specify coupling size, and bore size. A complete coupling consists of (1) mechanism, including flexible disc, (1) Poly-Disc flange, and (2) bushings.
Type PH Couplings - specify coupling size, bore size of the driven end and the motor end. A complete coupling consists of (1) mechanism, (1) Taper-Lock or Bored-To-Size flange assembly, and (1) element. Refer to the part numbers when ordering.

C-FLEX MODULE STYLE
Specify the C-Flex unit size and the FLEXIDYNE mechanism. Refer to the part numbers when ordering.

FLOW CHARGE
Determine the amount of flow charge required by referring to the Flow Charge tables in the Modifications/Accessories section. Choose between cast steel and stainless. Refer to the part number when ordering.

NOMENCLATURE

55 D x 3/8"

SIZE _____

STYLE _____

- D - Drive
- C - Coupling
- CF - C-Flex

BORE SIZE _____



SELECTION



FLEXIDYNE

SIMPLIFIED SELECTION PROCEDURE

The tables on pages PT3-6 -PT3-7 give FLEXIDYNE mechanism size and amount of flow charge to provide starting capacities from 100-200% of motor nameplate HP of a NEMA Design B squirrel cage induction motor. This starting capacity is satisfactory for most ordinary industrial applications.

The FLEXIDYNE unit sizes shown in the simplified selection tables suggest the most economical FLEXIDYNE mechanism for a given RPM and HP. In some cases, under the same conditions, there may be other sizes of FLEXIDYNE which may be utilized.

STEP 1

Determine the approximate starting torque percentage for the application. As a guide, suggested percentages are listed in the table below.

STEP 2

Determine motor speed and HP to be used. Refer to tables on pages PT3-6 -PT3-7 based on 1760, 1175, or 875 RPM NEMA Design B motors.

STEP 3

Check maximum bore from Selection/Dimensions pages.

STEP 4

Consider overload protection. If there is any chance of excessive slippage of the FLEXIDYNE mechanism and consequent overheating due to unattended overload or abnormal starting conditions, select an overload protection device from the Modifications/Accessories pages. Refer to Thermal Capacity Charts in Engineering/Technical section.

FLEXIDYNE MECHANISM STARTING TORQUE

Application	Range	Application	Range	Application	Range
Air Conditioning	130-175%	Cranes (Bridge Draw)	150-200%	Mixers	130-150%
Agitators	130-175%	Crushers	150-200%	Oven Drivers	150-175%
Belt Conveyors	130-150%	Dryers	130-175%	Paper Mills	
Blenders	130-175%	Fans	150-175%	Agitator	130-175%
Blowers	150-175%	Lumber Chippers	150-200%	Hydropulper	130-175%
Bucket Elevators	130-175%	Sawdust Conv.	130-175%	Chipper	150-200%
Can Filling Machine	125-150%	Matl. Handling Equip.	130-150%	Drier	130-150%
Compressors	150-175%	Mills (Ball, Pebble)	150-175%	Pumps	125-150%

NOTE: Since FLEXIDYNE Drives and Couplings are selected primarily as torque limiting devices by using the starting torque percentages shown above, the use of a service factor is not necessary.



FLEXIDYNE OTHER APPLICATIONS

The information on the previous page provides a simple method of selecting the FLEXIDYNE mechanism size when used with NEMA Design B motors under general operating conditions. Selection for any other application is based on the specific conditions and requirements of the installation. The power transmitting characteristics of the FLEXIDYNE unit vary with input speed and amount of flow charge used. A FLEXIDYNE unit can be adapted to the specific conditions and requirements of the individual application by using the proper amount of flow charge. **FLEXIDYNE units are not recommended for variable speed applications, engines or speeds below 700 RPM.**

DODGE engineers welcome inquiries on FLEXIDYNE mechanism selection for applications not previously covered. It is suggested that their experience be called upon to recommend the best installation.

Please provide the following information with your request:

- Type, HP, RPM, shaft size of motor
- Type, RPM, shaft size of driven machine
- Frequency of starts, reversals, and overloads
- Time required to accelerate
- For high inertia loads, WR^2
- Starting HP and Overload Breakaway HP desired
- Functions the FLEXIDYNE unit must perform

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SELECTION



FLEXIDYNE

SELECTION OF FLEXIDYNE MECHANISM SIZE (BASED ON% OF STARTING TORQUE FOR NEMA DESIGN B MOTORS) 1760 RPM

Rated Motor HP	FLEXIDYNE Mech Size	100% @ 1760 rpm			125% @ 1750 RPM			150% @ 1740 RPM			175% @ 1700 RPM			200% @ 1650 RPM		
		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge	
			Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.
1/2	5D, 5C	.5	0	8	.62	0	9	.75	0	9.5	.85	0	10	.94	0	10.5
3/4	5D, 5C	.75	0	9	.94	0	10.5	1.1	0	11	1.3	0	11.5	1.4	*	*
1	55D, 55C	1.0	0	9	1.2	0	10	1.5	0	11	1.7	0	12	1.9	0	13
1-1/2	55D, 55C	1.5	0	10	1.9	0	12	2.2	0	13.5	2.5	0	14	2.8	0	16
2	55D, 55C	2.0	0	12	2.5	0	13.5	3.0	0	15	3.4	0	17	3.8	0	18
3	70D, 70C	3.0	1	11	3.7	1	13	4.5	1	14	5.1	2	0	5.7	2	2
5	70D, 70C	5.0	1	14	6.2	2	1	7.5	2	4	8.5	2	8	9.4	2	10
7-1/2	75D, 75	7.5	1	11	9.4	1	14	11.2	2	1	12.7	2	4	14.1	2	9
10	75D, 75C	10	1	15	12.5	2	3	14.9	2	6	17.0	2	9	18.8	2	12
15	9D, 9C	15	2	9	18.8	3	0	22.3	3	7	25.5	3	13	28.3	4	2
20	9D, 9C	20	3	2	25	3	10	30	4	0	34	4	8	38	5	3
25	11D, 11C	25	4	3	31	4	12	37	5	0	42	5	8	47	6	2
30	11D, 11C	30	4	10	37	5	0	45	5	12	51	6	3	57	6	12
40	11D, 11C	40	5	5	50	6	0	60	6	8	68	7	3	75	8	0
50	11D, 11C	50	5	13	62	6	10	74	7	6	85	8	2	94	8	11
60	15D, 15116	60	7	3	75	8	3	89	9	1	102	10	1	113	10	14
75	15D, 15116	75	8	3	94	9	3	111	10	3	127	11	0	141	12	0
100	15D, 15116	100	9	7	125	10	10	149	11	9	170	12	8	188	13	5
125	D15131 ▲	125	7	3	156	8	6	186	9	4	212	10	4	236	11	1
150	D15131 ▲	150	8	3	187	9	3	224	10	3	255	11	1	283	12	1

1175 RPM

Rated Motor HP	FLEXIDYNE Mech Size	100% @ 1760 rpm			125% @ 1750 RPM			150% @ 1740 RPM			175% @ 1700 RPM			200% @ 1650 RPM		
		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge	
			Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.
1/4	5D, 5C	.25	0	8.5	..	..	..	.46	0	10.5	..	..	..	..	..	..
1/2	55D, 55C	.5	0	11	.62	0	15	.75	0	13	.85	0	15	.94	0	16
3/4	55D, 55C	.75	0	12	.94	0	15	1.1	0	16	1.3	0	17	1.4	0	18
1	70D, 70C	1.0	1	10	1.2	1	12	1.5	1	14	1.7	2	1	1.9	2	4
1-1/2	70D, 70C	1.5	1	13	1.9	2	1	2.2	2	3	2.5	2	6	2.8	2	9
2	75D, 75C	2.0	1	10	2.5	1	13	3.0	2	0	3.4	2	2	3.8	2	6
3	75D, 75C	3.0	1	15	3.7	2	3	4.5	2	7	5.1	2	10	5.7	2	12
5	9D, 9C	5.0	2	4	6.2	2	11	7.4	3	1	8.5	3	8	9.4	3	12
7-1/2	9D, 9C	7.5	3	0	9.3	3	9	11.1	3	14	12.7	4	4	14.1	4	12
10	11D, 11C	10	5	0	12.4	5	5	14.8	5	10	17	6	3	19	7	0
15	11D, 11C	15	5	14	18	6	5	22	7	0	25	7	14	28	9	0
20	11D, 11C	20	6	8	25	7	14	30	8	4	34	8	13	38	9	10
25	15D, 15116	25	8	8	31	9	13	37	10	12	42	11	13	47	12	10
30	15D, 15116	30	9	7	37	10	10	44	11	11	51	12	9	57	13	8
40	15D, 15116	40	10	14	50	12	14	59	13	0	68	14	0	75	15	3
50	15D	50	12	0	62	13	1	74	14	2	85	15	8	..	..	..
	D15116 ▲	50	8	8	62	9	13	74	10	12	85	11	8	94	12	0
60	18D	..	..	..	..	..	..	..	..	..	..	..	..	94	15	11
	15D	60	12	11	75	14	1	89	15	6	..	..	..	..	..	..
60	D15116 ▲	60	9	7	75	10	10	89	11	11	102	12	9	113	13	8
	18D	..	..	..	..	..	..	..	..	..	102	17	4	113	19	6
75	15D	75	13	14	93	15	8	..	..	..	..	..	..	..	..	..
	D15116 ▲	75	10	9	93	11	13	111	12	11	127	13	10	141	14	12
100	18D	..	..	..	..	..	..	111	17	10	127	19	10	141	21	14
	18D	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
100	18D, 18172	100	15	12	124	18	7	148	20	9	170	22	13	189	24	13
125	18D, 18172	125	18	7	155	21	1	185	23	3	212	25	3	236	27	3
150	18D, 18172	150	20	5	186	22	15	222	25	0	254	27	0	283	29	4
200	D18172 ▲	200	15	12	249	18	10	285	20	5	340	22	13	377	24	13
250	D18172 ▲	250	18	9	312	21	0	370	23	2	424	25	3	470	27	0

* Use a Size 55 FLEXIDYNE unit. Fill with 11 oz. of Flow Charge for 1.5 Starting HP

▲ Flow charge is listed for one cavity. For duplex (double cavity) units, numbered with prefix "D", the amount listed is required for each cavity.

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FLEXIDYNE

SELECTION OF FLEXIDYNE MECHANISM SIZE (BASED ON% OF STARTING TORQUE FOR NEMA DESIGN B MOTORS) 875 RPM

Rated Motor HP	FLEXIDYNE Mech Size	100% @ 1760 rpm			125% @ 1750 RPM			150% @ 1740 RPM			175% @ 1700 RPM			200% @ 1650 RPM		
		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge		Start-ing HP	Flow Charge	
			Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.
1/2	70D, 70C	.5	1	12	.62	1	15	.75	2	1	.85	2	4	.94	2	6
3/4	70D, 70C	.75	2	0	.94	2	3	1.1	2	6	1.3	2	8	1.4	2	12
1	75D, 75C	1.0	1	13	1.2	2	0	1.5	2	3	1.7	2	7	1.9	2	8
1-1/2	75D, 75C	1.5	2	2	1.9	2	7	2.2	2	10	2.5	2	11	2.8	2	12
2	9D, 9C	2.0	2	6	2.5	2	12	2.9	3	0	3.4	3	8	3.7	3	12
3	9D, 9C	3.0	3	0	3.7	3	8	4.4	4	0	5.0	4	6	5.6	4	14
5	11D, 11C	5.0	5	6	6.2	5	14	7.3	6	10	8.4	7	0	9.4	7	8
7 1/2	11D, 11C	7.5	6	8	9.3	7	2	10.9	8	0	12.6	8	8	14.0	9	5
10	15D, 15116	10	8	6	12.4	9	8	14.6	10	9	16.8	11	7	18.7	12	5
15	15D, 15116	15	10	5	19	11	7	22	12	8	25	13	5	28	14	6
20	15D, 15116	20	11	12	25	12	13	29	13	14	34	15	1	38	15	8
25	D15116	25	9	7	31	10	9	36	11	11	42	12	8	47	13	5
30	D15116	30	10	5	37	11	7	44	12	8	50	13	5	56	14	6
40	18D, 18172	40	15	3	50	18	0	58	20	6	67	22	8	75	24	7
50	18D, 18172	50	17	14	62	20	4	73	22	14	84	24	14	94	26	14
60	18D, 18172	60	19	13	75	22	6	87	24	15	101	26	1	112	28	12
75	D18172 ▲	75	14	8	93	17	2	109	19	11	126	21	13	141	23	12
100	D18172 ▲	100	17	14	124	20	4	146	22	14	168	24	14	187	26	14
125	D18172 ▲	125	20	2	155	22	13	182	25	7	210	27	4	234	29	4

▲ Flow charge is listed for one cavity. For duplex (double cavity) units, numbered with prefix "D", the amount listed is required for each cavity.



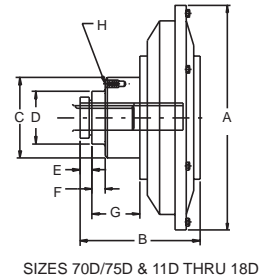
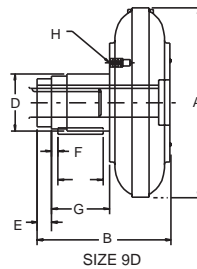
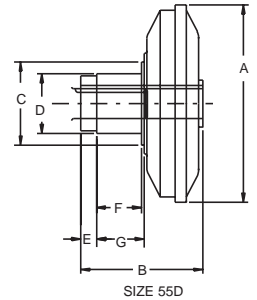
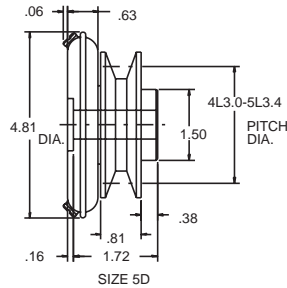
SELECTION/DIMENSIONS



FLEXIDYNE Drives



Each FLEXIDYNE, including a container of flow charge, is individually packaged. A speed drop cutout is included with 15D and 18D sizes. Cutout features and a cross section drawing are shown in the Modifications/Accessories section.



NOTE: Drawings are for dimensional purposes and do not necessarily represent construction

5D FLEXIDYNE DRIVE

Nom. Stock Bores ▲	w/Integral Sheave	Part Number	Wt. Lbs.	Keyseat	Key Req'd.
	P.D.				
5/8	4L2.2-5L2.6	305106	3.4	3/16 X 3/32 X 111/16	3/16 X 3/16 X 13/8
	4L3.0-5L3.4	305101	2.4		
	4L3.6-5L4.0	305102	3.6		
3/4 (Max.)	4L3.0-5L3.4	305103	2.7	3/16 X 3/32 X 111/16	3/16 X 3/16 X 17/8

▲ +.0005" +.0025" over nominal. Bores not listed will be quoted on application.



FLEXIDYNE 55D THRU 18D FLEXIDYNE DRIVE

DRIVE SIZE	MAX. RPM	NOM STOCK BORES *	Part Number	Wt Lbs	Keyseat ♥	Key Req'd
55D	3600	5/8	305015	3.0	3/16 x 3/32 x 31/16	3/16 x 3/16 x 13/8
		7/8 (Max)	305016	2.8		
70D	3300	7/8	305021	9.5	3/16 x 3/32 x 35/16	3/16 x 3/16 x 13/8
		11/8 (Max.)	305022	9.7	1/4 x 1/8 x 35/16	1/4 x 1/4 x 13/4
75D	3300	1	305085	10.0	1/4 x 1/8 x 4	1/4 x 1/4 x 13/4
		11/8	305056	10.2	1/4 x 1/8 x 4	1/4 x 1/4 x 13/4
		13/8 (Max.)	305057		5/16 x 3/32 x 4	5/16 x 1/4 x 23/8 ♦
9D	2300	11/8	309070	23.0	1/4 x 1/8 x 6	1/4 x 1/4 x 2
		11/4	309071	24.0	1/4 x 1/8 x 6	1/4 x 1/4 x 23/4
		13/8	309072	23.5	5/16 x 5/32 x 6	5/16 x 5/16 x 23/4
		15/8 (Max.)	309073	23.0	3/8 x 1/8 x 6	3/8 x 5/16 x 33/4 r
11D	2400	13/8	311070	45.0	5/16 x 5/32 x 75/16	5/16 x 5/16 x 23/4
		15/8	311071	46.0	3/8 x 3/16 x 75/16	3/8 x 3/8 x 33/4
		17/8 (Max.)	311072	45.0	1/2 x 1/8 x 75/16	1/2 x 3/8 x 51/2 ♦
11DL	2400	21/8 (Max.)	311073	44.0	1/2 x 1/8 x 75/16	1/2 x 3/8 x 51/2 ♦
15D	1800	17/8	315070	100.0	1/2 x 1/4 x 103/16	1/2 x 1/2 x 5
		21/8	315071	92.0	1/2 x 1/4 x 103/16	1/2 x 1/2 x 5
		23/8 (Max.)	315072	96.0	5/8 x 1/8 x 103/16	5/8 x 7/16 x 51/2 ♦
18D	1500	27/8	318060	154.0	3/4 x 3/8 x 103/16	3/4 x 3/4 x 93/4
		33/8 (Max.)	318065	154.0	7/8 x 1/4 x 103/16	7/8 x 11/16 x 93/4 ♦

Size	A	B	C -.000 +.002	D	E	F	G **	H	
								No. of Holes	Thd's
55D	5.38	3.07	2.752	1.69	0.47	1.38	1.41	...	...
70D	8.13	3.56	3.755/3.753	2.81	0.63	0.63	1.03	4	††
75D	8.13	4.25	3.755/3.753	2.81	0.63	0.63	1.72	4	††
9D	9.50	6.75	...	3.00{	0.69	0.56	3.38	4	♣
11D	11.25	8.28	5.082/5.080	3.610/3.605	0.75	2.50	4.38	4	§
11DL									
15D	14.50	11.19	6.625/6.623	4.63	1.00	3.25	6.31	6	▲
18D	18.00	14.75	9.189/9.187	6.00	1.13	1.50	9.25	6	♣

Note: To facilitate order processing specify part numbers

Setscrews: One furnished over keyway, one @ 120°

* All sizes: +.0005" +.0025" over nominal. Bores not listed will be quoted on application

† Key provided

** Provide 3/32 min. clearance between sheave and FLEXIDYNE drive

♦ Key is furnished for these sizes only

♥ Keyseat begins at left end of FLEXIDYNE drive as viewed in drawings on page PT3-8

♣ 1/4-20x1/2" deep on 3-1/2" Dia. B.C. (1/4x2-1/2" Soc. Hd. Cap Screws w/1-3/8" thd., not furnished).

§ 3/8-16x1-1/8" deep on 4-3/8" Dia. B.C. (3/8x1-3/4" Soc. Hd. Cap Screws w/1-1/4" thd., furnished).

▲ 1/2-13x1-1/4" deep on 5-3/4" Dia. B.C. (1/2x2" Soc. Hd. Cap Screws w/1-1/2" thd., furnished).

♣ 1/2-13x1-5/16" deep on 8-3/16 Dia. B.C. (1/2x2-1/4" Soc. Hd. Cap Screws w/1-1/2" thd., furnished)."

†† 1/4-20x5/8" deep on 3-1/4" Dia. B.C. (1/4x1-1/4" for 70 & 1/4x1-1/4" for 75 furnished).

FEATURES/BENEFITS PAGE PT3-2	SPECIFICATION/HOW TO ORDER PAGE PT3-3	MODIFICATIONS/ACCESSORIES PAGE PT3-15	ENGINEERING/TECHNICAL PAGE PT3-27
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SELECTION/DIMENSIONS



FLEXIDYNE

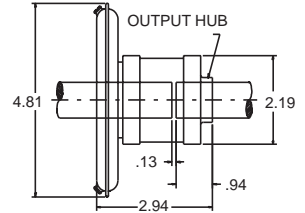
5C FLEXIDYNE COUPLING

The 5C FLEXIDYNE Coupling uses a formed steel housing and tubular flexible element. See ordering instructions in table below.

5C FLEXIDYNE Couplings

Available Bores	Keyway	Part Numbers	
		MECHANISM for Motor Shaft (Avg. Wt. 2.2 Lbs.)	OUTPUT HUB for Driven Shaft (Avg. Wt. .55 Lbs.)
1/2"	1/8 x 1/16	.....	305120
5/8"	3/16 x 3/32	305115	305121
3/4"	3/16 x 3/32	305118	305122
7/8"	3/16 x 3/32		305123

Note: Total coupling consists of (1) output hub and (1) mechanism. Order by description x bore. To facilitate order processing, order these items by part number. Max bore of mechanism = 3/4"; output hub = 1".

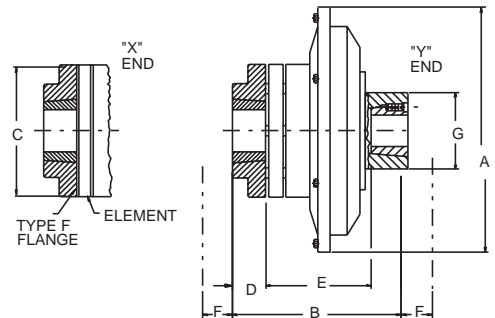


55C thru 11C FLEXIDYNE Couplings

The 55C thru 11C size FLEXIDYNE Coupling uses the same flexible disc used in DODGE POLY-DISC Couplings. The molded polyurethane disc offers longer life and smoother, quieter operation. Disc has excellent physical properties yet remains pliable to cushion shock loads and accommodate misalignment.

H and F Flanges, carried in stock, can be arranged in the position which best suits the application. **In H type the bushing installs from the Hub side of the flange; in F type from the Face side.**

Sufficient flow charge is furnished with each unit.





FLEXIDYNE

55C THRU 11C FLEXIDYNE COUPLINGS

Cplg. Size	Bore Range of Bushing		Max. RPM	Cplg. Less Bushings	Items required for Complete Coupling†									
	Min.	Max.			Mechanism (Includes disc)			Poly-Disc Flange w/o Bush.				Bushings		
					Wt. Lbs.	Part No.	Wt. Lbs.	Size	TYPE H Part No.	TYPE F Part No.	Wt. Lbs.	Motor End		Driven End
											Bush No.	Avg. Wt. Lbs.	Bush No.	Avg. Wt. Lbs.
55C	1/2	1	1800	5.0	305019	4.0	2-5/8	008057	008058	1.0	1008	.2	1008	.2
70C	*	*	1800	15.6	305025	13.6	4	008041	008040	2.0	1215	.7	1610	.7
75C	1/2	1-11/16	1800	18.6	305058	14.1	5-1/4	008043	008042	4.5	1615	1.0	1610	.7
9C	1/2	2-11/16	1800	40.6	309074	30.6	7	008045	008044	10.0	2517	2.8	2517	2.8
11C	1/2	2-11/16	1800	57.2	311074	44.2	8	008047	008046	13.0	2517	2.8	2517	2.8

Cplg Size	Replacement Poly-disc			A	B	C	D	E ◆	F ▲	G	X End	Y End
	No	Part	Wt.									
		Number	Lbs.									
55C	2-5/8	008030	1	5.38	3.5	2.63	0.88	1.41	0.75	2.25	Driven	Motor
70C	4	008032	0.2	8.13	6.06	4	★	3.56	1.06	3.63	Motor	Driven
75C	5-1/4	008033	0.5	8.13	6.38	5.25	★	3.88	1.06	3.63		
9C	7	008034	0.9	9.5	8.63	7	1.75	5.13	1.63	4.13		
11C	8	008035	1.5	11.25	9.63	8	1.75	6.13	1.63	4.88		

Complete coupling consists of (1) Mechanism, including flexible disc, (1) POLY-DISC Flange, and two Bushings. TAPER-LOCK bushings sold separately.

† To facilitate order processing specify part numbers.

Determine whether H or F Flange is required and order accordingly.

* Motor End: 1/2" - 1-1/4" (Min./Max.); Driven End: 1/2" - 1-5/8"

◆ Normal dimension. Shaft end float which increases or decreases "E" by slight amounts is permissible.

★ 1" on driven end, 1-1/2" on motor end.

▲ Space required to loosen bushing with shortened hex key using screws as jack screws-no puller required.

Keyways-See tables below for Standard Keyways and Shallow Keyways

Standard Keyways

Bore Range	Keyway
1/2 - 9/16 Incl.	1/8 x 1/16
over 9/16 - 7/8 Incl.	3/16 x 3/32
over 7/8 - 1-1/4 Incl.	1/4 x 1/8
over 1-1/4 - 1-3/8 Incl.	5/16 x 5/32
over 1-3/8 - 1-3/4 Incl.	3/8 x 3/16
over 1-3/4 - 2-1/4 Incl.	1/2 x 1/4
over 2-1/4 - 2-3/4 Incl.	5/8 x 5/16
over 2-3/4 - 3-1/4 Incl.	3/4 x 3/8
over 3-1/4 - 3-3/4 Incl.	7/8 x 7/16
over 3-3/4 - 4-1/2 Incl.	1 x 1/2
over 4-1/2 - 5-1/2 Incl.	1-1/4 x 5/8
over 5-1/2 - 6-1/2 Incl.	1-1/2 x 3/4

Shallow Keyways

Bush No.	Bore Range	
1008	15/16 - 1	Note: Key furnished for these exceptions only.
1610	1-9/16 - 11-1/16	
1615		
2517	2-5/16 - 2-11/16	Note: Key furnished for these exceptions only.



SELECTION/DIMENSIONS



FLEXIDYNE

TYPE PH FLEXIDYNE COUPLINGS

This unique combination of PARA-FLEX coupling and FLEXIDYNE mechanism offers maximum protection for motors and driven machines. The FLEXIDYNE unit allows the motor to accelerate quickly and start the load smoothly while the Para-Flex coupling permits up to 1° angular misalignment, up to 1/16" parallel misalignment and 3/32" end float. Consequently, starting torque can be tailored to the driven load requirements while torsional and lateral vibration and shock loads are being absorbed or cushioned.

The driven end of the couplings uses TAPER-LOCK bushings only. However, the motor end is available bushed or bored-to-size. Bored-to-size flanges accommodate larger shafts than possible with bushed flanges. Smaller size flanges are reversible offering the H and F position from the same flange. A choice of H or

F flanges is offered for size PX140. A speed drop cutout is furnished with 15116 and larger sizes.

TYPE PH FLEXIDYNE COUPLINGS W/ TAPER-LOCK FLANGES

Cplg. Size	Cplg. Less Bushings ♦	Items Req'd. for Complete Coupling ▲													
		MECHANISM				TAPER-LOCK FLG. ASSY					ELEMENT				
		Driven End Bore Range		Part No.	Wt. Lbs.	Motor End Bore Range		Size	Part Nos. for Respective Types			Wt. Lbs.	Size	Part No.	Wt. lbs.
		Min.	Max.			Min.	Max.		St'd. (Reversible)	Type H	Type F				
987	46.7	1/2	2-11/16	309077†	40	1/2	1-11/16	PX70	010603	.....	.....	5.1	PH87	011227	1.6
1196	65.5	1/2	2-11/16	311077	56	1/2	2-1/8	PX80	010604	.....	.....	7.4	PH96	011228	2.1
15116	137.5	1-5/16	3-1/4	315073	120	1/2	2-11/16	PX100	010606	.....	.....	15.0	PH116	011230	2.5
D15116	184.5	1-5/16	3-1/4	315074	167	1/2	2-11/16	PX100	010606	.....	.....	15.0	PH116	011230	2.5
D15131	175.7	1-5/16	3-1/4	315075	150	1/2	2-11/16	PX110	010607	.....	.....	21.6	PH131	011231	4.1
18172	314.2	1-3/16	3-15/16	318110	242	1-3/16	3-15/16	PX140	.....	011134	011154	64.0	PH172	011234	8.2
D18172	320.2	1-3/16	3-15/16	318400	248	1-3/16	3-15/16	PX140	.....	011134	011154	64.0	PH172	011234	8.2

♦ When ordering bushings, specify bore and part number.

▲ To facilitate order processing specify part numbers. In sizes 18172 and D18172, determine whether H or F Flange is required and order accordingly. Complete Coupling consists of (1) Mechanism, (1) Taper-Lock Flange Assembly, (1) Element and (2) Bushings.

† Assembled-to-order. Consult DODGE for delivery.

TYPE PH FLEXIDYNE COUPLINGS W/ BORED-TO-SIZE FLANGES

Cplg. Size	Coupling Less Bushings ♦		BS FLANGE ASSEMBLY						
	Rgh. Bored		Size	Rgh. Bored			Fin. Bored w/ St'd. K. W.		Set Screw
	Wt. Lbs.	Wt. Lbs.		Bore ★	Part Number	Wt. Lbs.	Motor End Bore Range	Wt. Lbs. ♦	
987	49.5	47.3	PX70BS	None	10301	7.9	1/2 - 2-1/8	5.7	
1196	69.1	66.3	PX80BS		10302	11	1/2 - 2-9/16	8.2	
15116	147.5	139.5	PX100BS		10304	25	1/2 - 3-1/4	17	⊕
D15116	194.5	186.5	PX100BS		10304	25	1/2 - 3-1/4	17	
D15131	189.1	176.1	PX110BS		10305	35	1/2 - 3-15/16	22	
18172	336.2	311.2	PX140BS	2/1/2004	10530	86	2-3/4 - 4-1/2	61	⊕
D18172	342.2	317.2	PX140BS	2/1/2004	10530	86	2-3/4 - 4-1/2	61	

Note: Complete Coupling consists of (1) Mechanism, (1) BS Flange Assembly, (1) Element and (1) Bushing.

♥ Bored per order-Sizes PX70 thru PX110 are furnished with a clearance fit from nominal bores (up to 2" +.000-.000, over 2" +.0015-.0000). In PX140 size, tolerance will be applied to custom bores (up to 3" +.000-.001, over 3" thru 6" +.0000-.0015; over 6" +.000-.002). Largest Bore listed should be considered as maximum.

⊕ One furnished over keyway.

⊕ Not furnished unless specified on order.

* Standard keyway is the same as shown on page. For shallow keyway exceptions, see table at right:

NOTE: Taper-Lock bushings sold separately

♦ Approximate weight with maximum bore

★ -.010 to -.015" no keyway

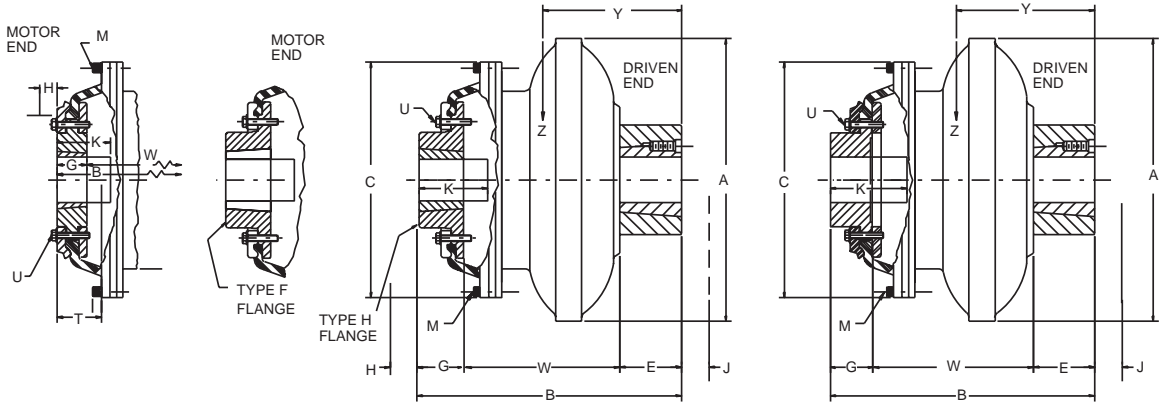
BS Fig. size	Bore Range	Keyway	NOTE-Key furnished for these exceptions only.
PX70	2 - 2-1/8	1/2 x 1/8	
PX80	2-3/8 - 2-9/16	5/8 x 3/16	
PX100	3-1/16 - 3-1/4	3/4 x 3/16	
PX110	3-11/16 - 3-3/4	7/8 x 1/4	
	3-13/16 - 3-15/16	1 x 1/4	

FEATURES/BENEFITS PAGE PT-3-2	SPECIFICATION/HOW TO ORDER PAGE PT-3-3	MODIFICATIONS/ACCESSORIES PAGE PT-3-15	ENGINEERING/TECHNICAL PAGE PT-3-27
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FLEXIDYNE

TYPE PH FLEXIDYNE COUPLINGS (cont.)



Coupling Size	Max. RPM	A	B		C	E ♣	G		H †	J †	K ▲		M ◆ (No.) & Size of Screws
			TAPER-LOCK Flange	Bored-to-Size Flange			TAPER-LOCK Flange	Bored-to-Size Flange			TAPER-LOCK Flange	Bored-to-Size Flange	
987	1800	9.5	8.75	9.75	9.44	1.75	1	1.75	1.06	1.63	3.19	4.19	(8) 5/16-18 x 1-1/4
1196	1800	11.25	10.06	11.19	10.31	1.75	1.25	2	1.38	1.38	4.38	5.5	(6) 3/8-16 x 1-1/2
15116	1800	14.5	12.31	13.81	12.31	3	1.75	2.63	1.63	2.06	4.44	5.94	(8) 3/8-16 x 1-1/2
D15116	1800	14.5	13.88	15.31	12.31	3	1.75	2.63	1.63	2.06	4.44	5.94	(8) 3/8-16 x 1-1/2
D15131	1800	14.5	14.63	16.38	13.81	3	1.75	3	1.63	2.06	5.19	6.94	(8) 3/8-16 x 2
18172	1500	18	16.31	17.44	18.31	3.5	3.5	3.88	2.63	2.63	7.5	8.5	(8) 1/2-13 x 2
D18172	1500	18	17.81	18.94	18.31	3.5	3.5	3.88	2.63	2.63	7.31	8.5	(8) 1/2-13 x 2

Coupling Size	T		U**		W ■		X	Y ♥	Z ♣ (Lbs.)
	TAPER-LOCK Flange	Bored-to-Size Flange	No. and Size of Screws		TAPER-LOCK Flange	Bored-to-Size Flange			
			TAPER-LOCK Flange	Bored-to-Size Flange					
987	1.59	1.59	(5) 5/16-18 x 1-1/2	(5) 5/16-18 x 1-1/2	5.94	6.25	..	3.88	43
1196	1.91	1.91	(6) 5/16-18 x 1-1/2	(6) 5/16-18 x 1-1/2	7.06	7.44	..	4.13	66
15116	2.09	2.09	(6) 3/8-16 x 1-3/4	(6) 3/8-16 x 1-3/4	7.56	8.19	..	5.5	107
D15116	2.09	2.09	(6) 3/8-16 x 1-3/4	(6) 3/8-16 x 1-3/4	9.13	9.69	..	6.5	153
D15131	2.56	2.56	(6) 3/8-16 x 2	(6) 3/8-16 x 2	9.88	10.38	..	6.5	153
18172	3.63	3	(8) 1/2-13 x 2-1/2	(8) 1/2-13 x 2-1/4	9.31	10.06	0.19	6.75	209
D18172	3.63	3	(8) 1/2-13 x 2-1/2	(8) 1/2-13 x 2-1/4	10.81	11.56	0.19	6.69	284

- ♣ Driven shaft should not extend into coupling beyond dimension E.
- † Space required to loosen bushing with shortened hex key using screws as jackscrew no puller required.
- ▲ Motor shaft may extend into coupling beyond dimension G but not beyond dimension K.
- * Reversible flanges permit Type H or F from the same flange.
- Normal distance between shafts. End float which increases or decreases W by slight amounts is permissible.
- ♥ Distance from driven end to center of gravity of driven section of coupling.
- ♣ Weight of driven section with maximum bore and flow charge.

- ◆ Socket head cap screw.
 - ** Hex head cap screw, SAE Grade 8; Optional: Nickel plated Grade 8 screws"
- Keyways-Standard Keyways are shown on page PT3-11.
For Shallow keyway exceptions see table below.

Bush No	Bore Range	NOTE - Key furnished for these exceptions only. See TAPER-LOCK section for Keyway information
1610	1-9/16 - 1-5/8	
2012	1-15/16 - 2-1/8	
2517	2-5/16 - 2-11/16	
3030	2-13/16 - 3-1/4	
3535	3-5/16 - 3-15/16	



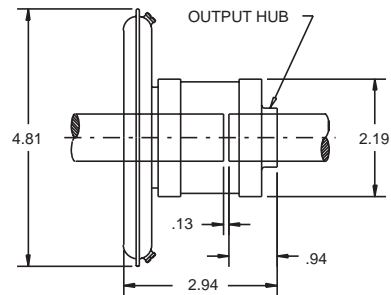
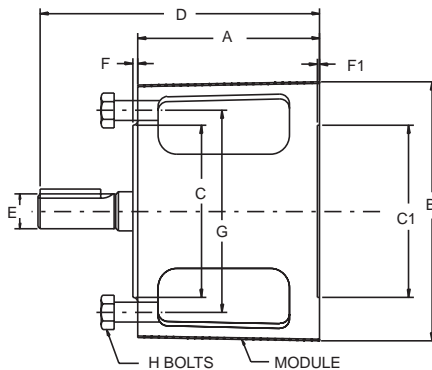
SELECTION/DIMENSIONS



FLEXIDYNE C-FLEX MODULE

C-Flex is a system for easily adapting stock FLEXIDYNE couplings to conventional AC motor/C-Face reducer drive combinations. The advantages of this low cost arrangement include soft start and intermittent overload protection utilizing popular NEMA-B motors and across-the-line switching. Costly reduced voltage starters or specially wound motors are not required. FLEXIDYNE

unit operates bi-directionally (reversing) and allows starting of heavy inertial loads without oversized motors. C-Flex fits all standard NEMA C-Face mountings of 56C, 140TC, 180TC and 210TC frame utilized on 1/2 thru 10 HP, 1750 ROM AC motors. The C-Flex output bearing provides support for single-bearing reducer types, but is equally suitable for reducers having two input shaft bearings.



C-FLEX MODULES

HP Rating @ 1750 RPM	For NEMA C-Face Frame	C-Flex Unit ▲			FLEXIDYNE Mechanism			A	B	C Dia.	C1 Dia.	D	Nom. E. Dia.	F	F1	G Dia. B.C.	H Bolts	
		Model No.	Part No.	Wt. (Lbs.)	Size	Part No.	Wt. (Lbs.)										No.	Size
1/2 3/4 1	56C	150	305026	14.5	5CF x 5/8 ■	305117	2.2	4.75	6.63	4.500	4.501	6.69	5/8	.100	0.19	5.88	4	★
										4.497	4.503			.160				
1 1-1/2 2	140TC	200	305027	14.5	5CF x 7/8 ■	305037	2	4.75	6.63	4.500	4.501	6.81	7/8	.100	0.19	5.88	4	★
										4.497	4.503			.160				
3 5	180TC	500	305028	54.5	70C	305025	13.6	12.5	10	8.499	8.500	15.31	1-1/8	.200	0.22	7.25	4	.
										8.497	8.502			.250				
7-1/2 10	210TC	1000	305029	58.2	75C	305058	14.1	12.5	10	8.499	8.500	15.84	1-3/8	.200	0.22	7.25	4	.
										8.497	8.502			.250				

SELECTION DATA-For 1/2 thru 2 HP rating, see table below.

For 3 thru 10 HP rating, see tables on page PT3-6 and PT3-7

■ For 5C FLEXIDYNES see page PT3-10.

▲ Includes all necessary parts except mechanism.

★ 3/8 -16 x 1-1/4 Hex Hd. Cap Screw.

* 1/2 -13 x 1-1/2 Soc. Hd. Cap Screw.

SELECTION OF 5CF FLEXIDYNE MECHANISM USED IN C-FLEX MODULE

Rated Motor HP	100% @ 1760 RPM			125% @ 1750 RPM			150% @ 1740 RPM			175% @ 1700 RPM			200% @ 1650 RPM		
	Start- ing HP	Flow Charge		Start- ing HP	Flow Charge		Start- ing HP	Flow Charge		Start- ing HP	Flow Charge		Start- ing HP	Flow Charge	
		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.		Lbs.	Oz.
1/2	.50	0	4	.62	0	5	.75	0	5	.85	0	6	.94	0	7
3/4	.75	0	5	1.00	0	6	1.10	0	6	1.30	0	7	1.40	0	8
1	1.00	0	6	1.20	0	7	1.50	0	7	1.70	0	8	1.90	0	9
1-1/2	1.50	0	7	1.90	0	8	2.20	0	8	2.50	0	9	2.80	0	10
2	2.00	0	8	2.50	0	9	3.00	0	9	3.40	0	10	3.60	0	11



FLEXIDYNE

FLEXIDYNE Flow Charge



Cast steel flow charge is furnished unless otherwise specified. Sufficient amounts for all applications are furnished and included in the price of each FLEXIDYNE unit. The part numbers listed here apply only when extra flow charge is ordered or the application requires stainless steel flow charge.

Flow charge is packaged in a tough transparent plastic bottle which is graduated and has a handy pour spout. This makes handling of flow charge easy whether pouring into the unit or removing flow charge if a change in torque is desired.

Stainless steel flow charge is recommended for applications subject to excessive moisture, humidity or wide temperature variations that may cause internal condensation. It may be ordered to replace that in an existing unit or in place of the cast steel flow charge when ordering a FLEXIDYNE unit.

Sizes 5, 5CF, and 55 FLEXIDYNE mechanisms use SAE S110 (.0234, maximum diameter) steel shot. In sizes 70 and up, SAE S170 (.0331" maximum diameter) steel shot is used.

Flow Charge for Individual FLEXIDYNE Mechanism Applications

FLEXIDYNE Mech. Size ▲	Cast Steel		Stainless Steel	
	Part No.	Wt.	Part No.	Wt.
5, 5CF	311124	1 lb.-2 oz.	311116	11 oz.
55, 6*	311124	1 lb.-2 oz.	311122	1 lb. -2oz.
7*	311125	3 lb.-5 oz.	311118	1 lb. -14 oz.
8*	311125	3 lb.-5 oz.	311119	3 lb. -5 oz.
70, 75*	311125	3 lb.-5 oz.	311123	2 lb. -13 oz.
9	309111	5 lb.-3 oz.	311120	5 lb. -3 oz.
11	311111	10 lb.	311121	10 lb.
15	315111	20 lb.	(2)311121	20 lb.
D15, 18	(1)315111, (1)311111	30 lb.	(3)311121	30 lb.
D18	(3)315111	60 lb.	(2)311113, (1)311121	60 lb.

Bulk FLEXIDYNE Flow Charge Size 70 and Up

Wt. (Lbs.)	Cast Steel	Stainless
	Part No.	Part No.
15	.....	311112
20	315111	.....
25	.....	311113

▲ Units with "D" prefix have duplex cavities.

* Old style FLEXIDYNE sizes.



MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

STOCK SHEAVES FOR FLEXIDYNE DRIVES (REFER TO INFORMATION ON PAGE PT3-18)

For FLEXIDYNE Size	Fig. No. (page PT3-18)	No. of Grvs.	Datum Dia.			Outside Dia.		Bolt-On Part No.	TAPER LOCK Part No.	QD Part No.	Wt. (Lbs) ▲	See Drwg's on Page PT3-18				
			Using A Belts★	Using B Belts★	Using C Belts★	Using 3V Belts	Using 5V Belts					E	F	L	M	
5D	Sheaves are integral - included in price & wt. of assembled unit															
55D	1 or 2	1	...	...	...	3.35	...	...	112175	.....	1.1	....	0.69	....	0.31	
		1	...	...	...	3.65	...	...	112176	455108	1.5	0.56	0.69	....	0.31	
		1	...	...	...	4.12	...	...	112177	144109	2.2	0.56	0.69	....	0.31	
		1	...	...	...	4.5	...	...	112178	144110	2.4	0.56	0.69	....	0.31	
		1	...	...	...	5.0	...	...	112180	455112	2.9	0.56	0.69	....	0.31	
		1	...	...	...	5.3	...	...	112181	455113	3.4	0.56	0.69	....	0.31	
		1	...	...	...	5.6	...	...	112182	455114	3.8	0.56	0.69	....	0.31	
		1	...	...	...	6.0	...	...	112183	455115	4.1	0.56	0.69	....	0.31	
		1	...	...	...	6.5	...	...	112184	455116	4.5	0.56	0.69	....	0.31	
		1	...	...	...	6.9	...	...	112185	455117	5.1	0.56	0.69	....	0.31	
	1 or 2	1	3.0	3.4 ■	...	...	...	...	.....	118283	1.2	0.50	0.88	0.00	....
		1	3.2	3.6 ■	...	...	...	...	.....	118284	1.3	0.50	0.88	0.00	0.00	
		1	3.4	3.8 ■	...	...	...	...	.....	118301	118285	1.6	0.50	0.88	0.00	0.00
		1	3.6	4.0 ■	...	...	...	...	.....	118302	118286	1.8	0.25	0.88	0.19	0.00
		1	3.8	4.2 ■	...	...	...	...	.....	118194	455550	2.2	0.25	0.88	0.19	0.13
		1	4.0	4.4 ■	...	...	...	...	.....	118195	455551	2.6	0.25	0.88	0.19	0.13
		1	4.2	4.6	...	...	...	...	.....	118196	.....	2.1	....	0.88	....	0.13
		1	4.4	4.8	...	...	...	...	.....	118197	.....	2.4	....	0.88	....	0.13
		1	4.6	5.0	...	...	...	...	.....	118198	.....	3.6	....	0.88	....	0.13
		1	4.8	5.2	...	...	...	...	.....	118199	.....	3.8	....	0.88	....	0.13
		1	5.0	5.4	...	...	...	...	.....	118200	...	3.1	.....	0.88	....	0.13
		1	5.2	5.6	...	...	...	...	.....	118201	...	4.3	.....	0.88	....	0.13
		1	5.4	5.8	...	...	...	...	.....	118202	...	4.1	.....	0.88	....	0.13
		1	5.6	6.0	...	...	...	...	.....	118203	...	4.1	.....	0.88	....	0.13
		1	5.8	6.2	...	...	...	...	.....	118204	...	4.3	....	0.88	....	0.13
		1	6.0	6.4	...	...	...	...	.....	118205	...	4.1	.....	0.88	....	0.13
		1	6.2	6.6	...	...	...	...	.....	118206	...	4.9	.....	0.88	....	0.13
		1	6.4	6.8	...	...	...	...	.....	118207	...	4.8	....	0.88	....	0.13
70D	4	1	...	...	...	4.75	...	...	112250	...	...	2.2	0.13	0.69	0.44	0.13
		1	...	...	...	5.0	...	...	112251	...	...	2.5	0.13	0.69	0.44	0.13
		1	...	...	...	5.3	...	...	112252	...	...	3.1	0.13	0.69	0.44	0.13
		1	...	...	...	5.6	...	...	112253	...	...	3.3	0.13	0.69	0.44	0.13
		1	...	...	...	6.0	...	...	112254	...	...	3.8	0.00	0.69	0.56	0.13
		1	...	...	...	6.5	...	...	112255	...	...	4.6	0.00	0.69	0.56	0.13
		1	...	...	...	6.9	...	...	112256	...	...	5.4	0.00	0.69	0.56	0.13
	4	1	4.8	5.2	...	...	...	...	118275	...	...	2.7	0.19	0.88	0.44	0.25
		1	5.0	5.4	...	...	...	...	118276	...	...	3.2	0.19	0.88	0.44	0.25
		1	5.2	5.6	...	...	...	...	118277	...	...	3.7	0.19	0.88	0.44	0.25
		1	5.6	6.0	...	...	...	...	118278	...	...	4.5	0.19	0.88	0.44	0.25
		1	6.0	6.4	...	...	...	...	118279	...	...	5.3	0.28	0.88	0.22	0.38
		1	6.4	6.8	...	...	...	...	118280	...	...	6.2	0.28	0.88	0.22	0.38
		1	7.0 ◆	7.4 ◆	...	...	...	...	118281	...	...	10.9	0.25	1.00	0.50	0.25

★ Composite groove to accommodate either A or B belts

† These sizes also fit 70D

◆ Made to order sheaves, price on application

▲ Weight does not include bushing. Order from page PT3-18

■ Use "B" Dyna-Cog Belt, not standard "B"

FEATURES/BENEFITS PAGE PT3-2	SPECIFICATION/HOW TO ORDER PAGE PT3-3	SELECTION/DIMENSIONS PAGE PT3-8	ENGINEERING/TECHNICAL PAGE PT3-27
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FLEXIDYNE

STOCK SHEAVES FOR FLEXIDYNE DRIVES (REFER TO INFORMATION ON PAGE PT3-18)

For FLEXIDYNE Size	Drwg. Ref Fig. No.	No. of Grvs.	Datum Dia.			Outside Dia.		Bolt-On Part No.	TAPER LOCK Part No.	QD Part No.	Wt. (Lbs) ▲	See Drwg's on Page PT3-18				
			Using A Belts★	Using B Belts★	Using C Belts★	Using 3V Belts	Using 5V Belts					E	F	L	M	
75D	4	2	...	...	...	4.75	...	112265	...	...	2.2	0.13	1.09	0.69	0.28
		2	...	...	...	5.0†	...	112266	...	...	2.7	0.13	1.09	0.69	0.28
		2	...	...	...	5.3	...	112267	...	...	3.6	0.13	1.09	0.69	0.28
		2	...	...	...	5.6†	...	112268	...	...	4.0	0.13	1.09	0.69	0.28
		2	...	...	...	6.0†	...	112269	...	...	4.9	0.00	1.09	0.81	0.28
		2	...	...	...	6.5	...	112270	...	...	6.1	0.00	1.09	0.81	0.28
		2	...	...	...	6.9	...	112271	...	...	7.5	0.00	1.09	0.81	0.28
	4	2	4.8	5.2	...	...	...	118290	...	...	4.6	0.06	1.75	0.75	0.94
		2	5.0	5.4	...	...	...	118291	...	...	5.5	0.06	1.75	0.75	0.94
		2	5.2	5.6	...	...	...	118292	...	...	6.5	0.06	1.75	0.75	0.94
		2	5.6	6.0	...	...	...	118293	...	...	7.0	0.06	1.75	0.75	0.94
		2	6.0	6.4	...	...	...	118294	...	...	7.9	0.06	1.75	0.75	0.94
		2	6.4	6.8	...	...	...	118295	...	...	8.9	0.06	1.75	0.75	0.94
		2	7.0◆	7.4◆	...	...	...	118296	...	...	13.3	0.00	1.75	0.81	0.94
9D	3	4	...	...	...	4.75	...	310077	...	...	4.5	0.00	1.91	2.13	0.22
		4	...	...	...	5.3	...	310078	...	...	5.6	0.00	1.91	2.13	0.22
		4	...	...	...	6.0	...	310079	...	...	8.6	0.00	1.91	2.13	0.22
	3	4	5.6	6.0	...	...	...	310060	...	...	13.2	1.25	3.25	2.25	0.25
		4	6.0	6.4	...	...	...	310061	...	...	15.0	1.25	3.25	2.25	0.25
		5	5.0	5.4	...	...	...	310062	...	...	11.4	2.00	4.00	2.25	0.25
		5	5.2	5.6	...	...	...	310063	...	...	12.3	2.00	4.00	2.25	0.25
		5	...	...	...	...	...	...	...	...	...	...	...	...	...
	11D, 11DL	4	3	7.5	310082	10.7	0.63	2.38	0.75	1.00
			5	6.5	310080	7.6	0.56	2.31	0.75	1.00
5			...	...	...	...	6.9	310081	...	...	8.7	0.56	2.31	0.75	1.00
4		5	6.2	6.6	...	...	...	310064	...	...	13.7	1.63	4.00	0.75	1.63
		5	6.4	6.8	...	...	...	310065	...	...	14.0	1.63	4.00	0.75	1.63
		5	7.0	7.4	...	...	...	310066	...	...	18.0	1.63	4.00	0.75	1.63
		5	8.2	8.6	...	...	...	310067	...	...	23.0	1.63	4.00	0.75	1.63
		5	...	...	...	...	...	...	...	...	...	...	...	...	...
15D		4	4	9.75	310085	19.8	0.56	3.06	0.75	1.75
			5	8.5	310083	16.4	1.25	3.75	0.75	1.75
	5		9.0	310084	18.6	1.25	3.75	0.75	1.75
	4	5	...	...	10.5	...	...	310068	...	...	37.0	2.75	5.38	0.75	1.88
		6	...	...	9.0	...	...	310069	...	...	31.0	2.75	6.38	0.75	2.88
		6	...	...	9.5	...	...	310070	...	...	33.8	2.75	6.38	0.75	2.88
		6	...	...	10.0	...	...	310071	...	...	40.0	2.75	6.38	0.75	2.88
		6	...	...	...	...	...	...	...	...	...	...	...	...	...
18D	Not Stocked, See Made-To-Order Sheaves on Next Page															

★ Composite groove to accommodate either A or B belts.

◆ Made to order sheaves, price on application.

† These sizes also fit 70D.

▲ Weight does not include bushing. Order from next page.

FEATURES/BENEFITS PAGE PT3-2	SPECIFICATION/HOW TO ORDER PAGE PT3-3	SELECTION/DIMENSIONS PAGE PT3-8	ENGINEERING/TECHNICAL PAGE PT3-27
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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

STOCK SHEAVES FOR FLEXIDYNE DRIVES (cont.)

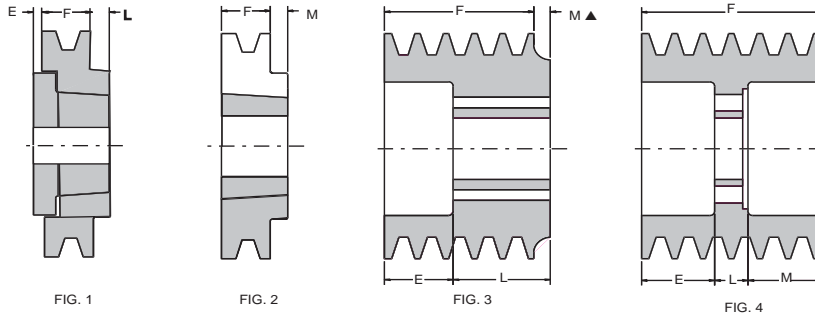
The tables on the previous pages list stock sheaves available for use on FLEXIDYNE Drives from size 55D thru 15D. The size 5D uses integral sheaves which are shown on page PT3-8. The 18D sheaves are made-to-order.

Avoid the use of bored-to-size sheaves which use setscrews which may distort sleeve or damage bearings. Order sheaves by part number listed in tables on previous pages PT3-16 - PT3-17. Refer to V-Drive tables on Pages PT3-18 - PT3-24. Information on made-to-order sheaves is shown below

FLEXIDYNE Sheave Bushings

Dwg. Ref.	Bush. Type	Part Number	Wt. (Lbs.)	Size
Fig. 1	QD	* 120580	.6	SH x 1-11/16
Fig. 2	TAPER-LOCK	* 117071	.5	1610 x 1-11/16

* These bushings used with 55D FLEXIDYNE. Must be used without key



▲ Locate right side of M dimension shown here @ right end of G dimension as shown in drawing for size 9D on page PT3-8

MADE-TO-ORDER FLEXIDYNE SHEAVES

For FLEXIDYNE Mech. Size	Separate Sheaves				
	Max. No. Grvs	Belt Size	Min. Dia.*		
			TAPER-LOCK	QD	Bolt-On
55D	1	3V	3.85	...	...
		A	3.8	3.0	...
		B	4.2	3.4	...
70D	1	3V	...	...	5.3
		A	...	...	4.8
		B	...	...	5.2
75D	2	3V	...	...	5.3
		A	...	...	4.8
		B	...	...	5.2
9D	7	3V	6.4	...	4.75★
		B	6.6	...	5.4◆
11D,	10	3V	...	...	6.6
11DL	6	5V	...	...	7.5
		B	...	...	6.7
15D	15	3V	...	...	8.0
		5V	...	...	9.0
		B	...	...	8.0
		C	...	...	8.5
18D	13	5V	...	...	11.8
		C	...	...	11.0

* For 3V, 5V groove sheaves outside diameter is shown. For A, B and C groove sheaves, pitch diameter is shown."

★ TAPER-LOCK furnished for 6.4 and larger O.D.

◆ TAPER-LOCK furnished for 6.6 and larger P.D.

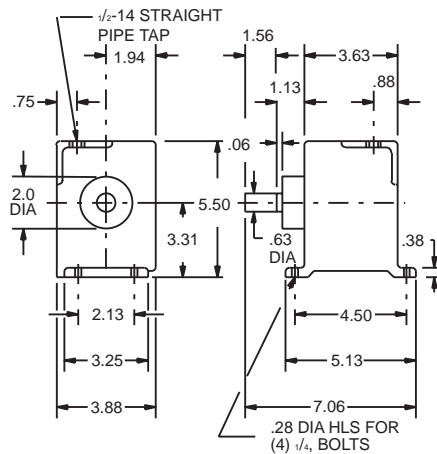
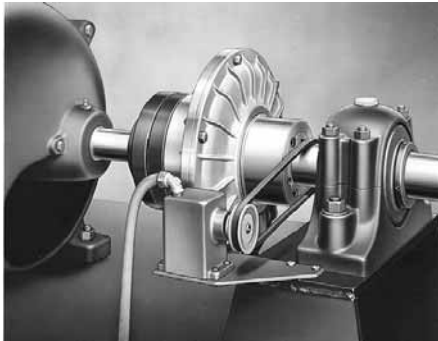
Stock FLEXIDYNE sheaves should be used whenever possible. However Made-to-Order sheaves which conform to diameter and groove limitations listed in table at left, can be furnished. Consult DODGE if sheave required does not fall within these limits.

Made-to-order sheaves will be priced on application. Consult DODGE for price and delivery. The following should be included with your inquiry:

1. Style of Sheave (Bolt-on, Integral, TAPER-LOCK, etc.)
2. No. of Grooves.
3. Belt Size.
4. Sheave Dia. (State whether O.D. or P.D.)
5. Quantity Req'd.



**FLEXIDYNE
FLEXIDYNE SPEED DROP CUTOUT**



NOTE: Guards have been removed for photographic purposes

The Speed Drop Cutout is a general purpose centrifugally operated device. When a speed of approximately 950 rpm is reached the switch is actuated to an engaged position. This position is maintained until the speed drops to approximately 520 rpm, whereupon the switch returns to a disengaged position. Maximum allowable speed is 1800 rpm.

The switch is listed by Underwriters Laboratories for 15 amperes; 125, 250 or 460 volts AC. The single-pole double-throw switch may be used in normally closed or normally open circuits. It is intended for use only in control circuits and is not to be used directly in the line to the motor for DC circuits.

Speed Drop Cutouts†

Standard Unit	
Part Number	Wt. (Lbs.)
313001	8.7

† Standard speed Drop cutouts are included with size 15 and larger FLEXIDYNE units. sheave and belt shown in photo are not included with speed drop cutout.



MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

V-BELT DRIVES FOR 5D FLEXIDYNE DRIVES

These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Sheave		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Sheave		Quan. & Belt Size ◆
		Driver ▲	Driven *				Driver ▲	Driven *	
2250	1.29	3.6	AK30H	1-4L	1122	1.56	3.6	5.6	**
2122	1.22	3.4	AK30H	1-4L	1117	1.57	3.0	AK51H	1-4L
2100	1.20	3.6	AK32H	1-4L	1105	1.58	3.6	AK61H	1-4L
1970	1.13	3.6	AK34H	1-4L	1048	1.67	3.0	AK54H	1-4L
1970	1.13	3.4	AK32H	1-4L	1012	1.73	3.0	AK56H	1-4L
1875	1.07	3.0	AK30H	1-4L	1008	1.74	3.4	BK65H	1-5L
1850	1.06	3.6	3.4	**	983	1.78	3.6	6.4	**
1850	1.06	3.4	AK34H	1-4L	955	1.83	3.0	AK59H	1-4L
1750	1.00	3.0	AK32H	1-4L	936	1.87	3.0	5.6	**
1707	1.03	4.0	BK47H	1-5L	930	1.88	3.4	BK70H	1-5L
1703	1.03	3.6	AK41H	1-4L	921	1.90	3.0	AK61H	1-4L
1651	1.06	3.6	3.8	**	900	1.94	3.6	AK74H	1-4L
1651	1.06	3.4	BK40H	1-5L	875	2.00	3.0	AK64H	1-4L
1640	1.07	3.0	AK34H	1-4L	833	2.10	4.0	BK90H	1-5L
1577	1.11	3.6	AK44H	1-4L	804	2.18	3.4	BK80H	1-5L
1572	1.11	4.0	BK50H	1-5L	788	2.22	3.6	AK84H	1-4L
1615	1.08	3.6	BK45H	1-5L	768	2.28	3.6	8.2	**
1544	1.13	3.0	3.4	**	751	2.33	3.0	AK74H	1-4L
1525	1.15	3.4	BK45H	1-5L	708	2.47	3.4	BK90H	1-5L
1496	1.17	3.6	AK46H	1-4L	700	2.50	3.6	AK94H	1-4L
1522	1.15	4.0	BK52H	1-5L	673	2.60	4.0	BK110H	1-5L
1458	1.20	3.0	3.6	**	656	2.67	3.0	AK84H	1-4L
1451	1.21	3.4	BK47H	1-5L	641	2.73	3.0	8.2	**
1429	1.23	4.0	BK55H	1-5L	630	2.78	3.6	AK104H	1-4L
1400	1.25	3.6	AK49H	1-4L	614	2.85	4.0	BK120H	1-5L
1423	1.23	3.0	AK41H	1-4L	595	2.94	3.6	10.6	**
1378	1.27	3.0	3.8	**	583	3.00	3.0	AK94H	1-4L
1376	1.28	3.6	4.6	**	572	3.06	3.4	BK110H	1-5L
1372	1.28	4.0	BK57H	1-5L	525	3.33	3.0	AK104H	1-4L
1316	1.33	3.6	4.8	**	496	3.53	3.0	10.6	**
1340	1.31	3.6	AK51H	1-4L	455	3.85	4.0	BK160H	1-5L
1313	1.33	3.0	AK44H	1-4L	450	3.89	3.6	AK144H	1-4L
1296	1.35	4.0	BK60H	1-5L	444	3.94	3.4	BK140H	1-5L
1293	1.35	3.4	BK52H	1-5L	438	4.00	3.0	AK124H	1-4L
1259	1.39	3.6	AK54H	1-4L	420	4.17	3.6	AK154H	1-4L
1250	1.40	3.0	AK46H	1-4L	386	4.53	3.4	BK160H	1-5L
1215	1.44	3.6	AK56H	1-4L	375	4.67	3.0	AK144H	1-4L
1214	1.44	3.4	BK55H	1-5L	350	5.00	3.0	AK154H	1-4L
1186	1.48	4.0	BK65H	1-5L	323	5.41	3.4	BK190H	1-5L
1167	1.50	3.0	AK49H	1-4L	292	6.00	3.0	AK184H	1-4L
1167	1.50	3.4	BK57H	1-5L					
1145	1.58	3.6	AK59H	1-4L					

** Use one belt, either A or 4L.

▲ Pitch diameter of integral sheaves supplied with stock 5D-FLEXIDYNE.

◆ "A" Belts may be used in place of 4L belts on 3.0 P.D. sheaves or larger.

"AX" Belts may be used in place of 4L belts on 2.2 P.D. sheaves or larger.

"B" Belts are not recommended in place of 5L belts.

"BX" Belts may be used in place of 5L belts on 4.0 P.D. sheaves or larger.

* All Sheaves are DODGE stock sheaves. Size numbers are shown for FHP 4L and 5L sheaves; datum diameters for Dual Duty sheaves.



MODIFICATIONS/ ACCESSORIES



FLEXIDYNE V-BELT DRIVES FOR 55D FLEXIDYNE DRIVES These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver	Driven				Driver	Driven	
1750	1.00	3.6	3.6	1-A	1160	1.00	3.0	3.0	1-A
1750	1.00	3.4	3.4	1-3V	1160	1.00	3.4	3.4	1-3V
1670	1.05	4.2	4.4	1-A	1112	1.04	4.6	4.8	1-B
1657	1.06	4.5	4.8	1-3V	1098	1.06	4.5	4.8	1-3V
1598	1.10	4.2	4.6	1-A	1059	1.10	4.2	4.6	1-A
1573	1.11	4.5	5.0	1-3V	1061	1.09	4.1	4.5	1-3V
1522	1.15	4.0	4.6	1-A	1036	1.12	5.0	5.6	1-B
1515	1.15	4.1	4.8	1-3V	1026	1.13	3.7	4.1	1-3V
1483	1.18	4.5	5.3	1-3V	1005	1.15	4.1	4.8	1-3V
1470	1.19	4.2	5.0	1-A	1002	1.16	3.8	4.4	1-A
1439	1.22	4.1	5.0	1-3V	958	1.21	3.8	4.6	1-A
1411	1.24	5.0	6.2	1-B	954	1.22	4.1	5.0	1-3V
1403	1.25	4.5	5.6	1-3V	928	1.25	3.2	4.0	1-A
1357	1.29	4.1	5.3	1-3V	930	1.25	4.5	5.6	1-3V
1342	1.30	4.6	6.0	1-B	899	1.29	4.1	5.3	1-3V
1309	1.34	4.5	6.0	1-3V	892	1.30	4.0	5.2	1-A
1298	1.35	4.6	6.2	1-B	868	1.34	4.5	6.0	1-3V
1273	1.37	3.7	5.0	1-3V	859	1.35	4.0	5.4	1-A
1250	1.40	4.0	5.6	1-A	844	1.37	3.7	5.0	1-3V
1229	1.42	3.4	4.8	1-3V	840	1.38	4.2	5.8	1-A
1207	1.45	4.0	5.8	1-A	816	1.42	3.8	5.4	1-A
1197	1.46	4.1	6.0	1-3V	814	1.42	3.4	4.8	1-3V
1182	1.48	5.0	7.4	1-B	800	1.45	4.5	6.5	1-3V
1167	1.50	3.4	5.0	1-3V	791	1.47	3.0	4.4	1-A
1135	1.54	3.7	5.6	1-3V	773	1.50	3.2	4.8	1-A
1129	1.55	4.0	6.2	1-A	773	1.50	3.4	5.0	1-3V
1100	1.59	3.4	5.3	1-3V	757	1.53	3.0	4.6	1-A
1094	1.60	4.0	6.4	1-A	754	1.54	4.5	6.9	1-3V
1073	1.63	3.8	6.2	1-A	746	1.56	3.6	5.6	1-A
1059	1.65	3.7	6.0	1-3V	730	1.59	3.4	5.4	1-A
1041	1.68	3.4	5.6	1-3V	729	1.59	3.4	5.3	1-3V
1026	1.71	3.4	5.8	1-A	711	1.63	3.8	6.2	1-A
1000	1.75	4.0	7.0	1-A	702	1.65	3.7	6.0	1-3V
980	1.79	4.5	8.0	1-3V	696	1.67	3.0	5.0	1-A
960	1.82	3.4	6.2	1-A	690	1.68	3.4	5.6	1-3V
936	1.87	4.6	8.6	1-B	680	1.71	3.4	5.8	1-A
920	1.90	3.7	6.9	1-3V	649	1.79	4.5	8.0	1-3V
900	1.94	3.6	7.0	1-A	644	1.80	3.0	5.4	1-A
895	1.95	3.4	6.5	1-3V	616	1.88	3.4	6.4	1-A
850	2.06	3.4	7.0	1-A	610	1.90	3.7	6.9	1-3V
843	2.08	3.4	6.9	1-3V	593	1.95	3.4	6.5	1-3V
795	2.20	5.0	11.0	1-B	580	2.00	3.0	6.0	1-A
792	2.21	3.7	8.0	1-3V	559	2.08	3.4	6.9	1-3V
759	2.30	4.6	10.6	1-A	544	2.13	3.0	6.4	1-A
726	2.41	3.4	8.2	1-A	527	2.20	5.0	11.0	1-B
726	2.41	3.4	8.0	1-3V	525	2.21	3.7	8.0	1-3V
693	2.52	4.2	10.6	1-A	503	2.30	4.6	10.6	1-A
675	2.59	4.1	10.6	1-3V	489	2.37	4.5	10.6	1-3V
671	2.61	4.6	12.0	1-A	481	2.41	3.4	8.2	1-A
627	2.79	3.8	10.6	1-A	482	2.41	3.4	8.0	1-3V
597	2.93	3.7	10.6	1-3V	448	2.59	4.1	10.6	1-3V
583	3.00	4.0	12.0	1-A	445	2.61	4.6	12.0	1-A
558	3.13	4.5	14.0	1-3V	406	2.86	4.2	12.0	1-A
537	3.26	4.6	15.0	1-A	396	2.93	3.7	10.6	1-3V
511	3.43	4.1	14.0	1-3V	372	3.12	3.4	10.6	1-A
496	3.53	3.4	12.0	1-A	370	3.13	4.5	14.0	1-3V
476	3.68	5.0	18.4	1-B	346	3.35	4.6	15.4	1-B
452	3.87	3.7	14.0	1-3V	338	3.43	4.1	14.0	1-3V
443	3.95	3.8	15.0	1-A	309	3.75	3.2	12.0	1-A
420	4.17	3.6	15.0	1-A	299	3.87	3.7	14.0	1-3V
411	4.26	4.5	19.0	1-3V	278	4.17	3.6	15.0	1-A
397	4.41	3.4	15.0	1-A	274	4.23	3.4	14.0	1-3V
376	4.66	4.1	19.0	1-3V	258	4.50	4.0	18.0	1-A
369	4.74	3.8	18.0	1-A	249	4.66	4.1	19.0	1-3V
350	5.00	3.6	18.0	1-A	219	5.29	3.4	18.0	1-A
331	5.29	3.4	18.0	1-A	220	5.26	3.7	19.0	1-3V
332	5.26	3.7	19.0	1-3V	202	5.74	3.4	19.0	1-3V
305	5.74	3.4	19.0	1-3V	193	6.00	3.0	18.0	1-A

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

*Stock TAPER-LOCK sheaves in V-drives section.

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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

V-BELT DRIVES FOR 70D FLEXIDYNE DRIVES

These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver	Driven				Driver	Driven	
1750	1.00	5.6	5.6	1-B	1160	1.00	4.8	4.8	1-A
1694	1.03	6.0	6.2	1-B	1123	1.03	6.0	6.2	1-B
1690	1.04	5.6	5.8	1-B	1119	1.04	5.4	5.6	1-B
1641	1.07	6.0	6.4	1-B	1094	1.06	5.0	5.3	1-3V
1633	1.07	5.6	6.0	1-B	1083	1.07	5.6	6.0	1-B
1632	1.07	5.6	6.0	1-3V	1082	1.07	5.6	6.0	1-3V
1614	1.08	6.0	6.5	1-3V	1070	1.08	6.0	6.5	1-3V
1591	1.10	6.0	6.6	1-B	1055	1.10	6.0	6.6	1-B
1581	1.11	5.6	6.2	1-B	1040	1.12	5.2	5.8	1-B
1575	1.11	5.4	6.0	1-B	1035	1.12	5.0	5.6	1-3V
1544	1.13	6.0	6.8	1-B	1015	1.14	5.6	6.4	1-B
1531	1.14	5.6	6.4	1-B	1008	1.15	6.0	6.9	1-3V
1524	1.15	5.4	6.2	1-B	998	1.16	5.6	6.5	1-3V
1520	1.15	6.0	6.9	1-3V	994	1.17	4.8	5.6	1-A
1506	1.16	5.6	6.5	1-3V	967	1.20	5.0	6.0	1-A
1485	1.18	5.6	6.6	1-B	965	1.20	5.0	6.0	1-3V
1477	1.19	5.4	6.4	1-B	949	1.22	5.4	6.6	1-B
1441	1.21	5.6	6.8	1-B	940	1.23	5.6	6.9	1-3V
1432	1.22	5.4	6.6	1-B	928	1.25	4.8	6.0	1-A
1419	1.23	6.0	7.4	1-B	914	1.27	5.2	6.6	1-B
1418	1.23	5.6	6.9	1-3V	898	1.29	4.8	6.2	1-A
1390	1.26	5.4	6.8	1-B	890	1.30	5.0	6.5	1-3V
1324	1.32	5.6	7.4	1-B	878	1.32	5.6	7.4	1-B
1310	1.34	6.0	8.0	1-3V	868	1.34	6.0	8.0	1-3V
1265	1.38	5.0	6.9	1-3V	862	1.35	5.2	7.0	1-A
1221	1.43	6.0	8.6	1-B	846	1.37	5.4	7.4	1-B
1222	1.43	5.6	8.0	1-3V	838	1.38	5.0	6.9	1-3V
1140	1.54	5.6	8.6	1-B	829	1.40	5.0	7.0	1-A
1117	1.57	6.0	9.4	1-B	809	1.43	6.0	8.6	1-B
1099	1.59	5.4	8.6	1-B	810	1.43	5.6	8.0	1-3V
1090	1.61	5.0	8.0	1-3V	792	1.46	5.6	8.2	1-A
1058	1.65	5.2	8.6	1-B	755	1.54	5.6	8.6	1-B
1043	1.68	5.6	9.4	1-B	740	1.57	6.0	9.4	1-B
1005	1.74	5.4	9.4	1-B	722	1.61	5.6	9.0	1-A
987	1.77	6.0	10.6	1-3V	722	1.61	5.0	8.0	1-3V
968	1.81	5.2	9.4	1-B	701	1.65	5.2	8.6	1-B
955	1.83	6.0	11.0	1-B	679	1.71	4.8	8.2	1-A
921	1.90	5.6	10.6	1-3V	666	1.74	5.4	9.4	1-B
891	1.96	5.6	11.0	1-B	654	1.77	6.0	10.6	1-3V
859	2.04	5.4	11.0	1-B	644	1.80	5.0	9.0	1-A
847	2.07	6.0	12.4	1-B	613	1.89	5.6	10.6	1-A
827	2.12	5.2	11.0	1-B	610	1.90	5.6	10.6	1-3V
821	2.13	5.0	10.6	1-3V	591	1.96	5.6	11.0	1-B
790	2.21	5.6	12.4	1-B	569	2.04	5.4	11.0	1-B
762	2.30	5.4	12.4	1-B	548	2.12	5.2	11.0	1-B
746	2.34	6.0	14.0	1-3V	544	2.13	5.0	10.6	1-3V
734	2.38	5.2	12.4	1-B	525	2.21	4.8	10.6	1-A
696	2.51	5.6	14.0	1-3V	505	2.30	5.4	12.4	1-B
682	2.57	6.0	15.4	1-B	495	2.34	6.0	14.0	1-3V
636	2.75	5.6	15.4	1-B	486	2.38	5.2	12.4	1-B
621	2.82	5.0	14.0	1-3V	464	2.50	4.8	12.0	1-A
614	2.85	5.4	15.4	1-B	462	2.51	5.6	14.0	1-3V
609	2.87	6.4	18.4	1-B	452	2.57	6.0	15.4	1-B
591	2.96	5.2	15.4	1-B	433	2.68	5.6	15.0	1-A
571	3.07	6.0	18.4	1-B	422	2.75	5.6	15.4	1-B
549	3.18	6.0	19.0	1-3V	412	2.82	5.0	14.0	1-3V
533	3.29	5.6	18.4	1-B	402	2.88	5.2	15.0	1-A
514	3.41	5.4	18.4	1-B	392	2.96	5.2	15.4	1-B
513	3.41	5.6	19.0	1-3V	387	3.00	5.0	15.0	1-A
495	3.54	5.2	18.4	1-B	371	3.12	4.8	15.0	1-A
457	3.83	5.0	19.0	1-3V	364	3.18	6.0	19.0	1-3V
.....	.....	..	..	.....	361	3.21	5.6	18.0	1-A
.....	.....	..	..	.....	353	3.29	5.6	18.4	1-B
.....	.....	..	..	.....	340	3.41	5.6	19.0	1-3V
.....	.....	..	..	.....	335	3.46	5.2	18.0	1-A
.....	.....	..	..	.....	322	3.60	5.0	18.0	1-A
.....	.....	..	..	.....	309	3.75	4.8	18.0	1-A
.....	.....	..	..	.....	303	3.83	5.0	19.0	1-3V

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

*Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE V-BELT DRIVES FOR 75D FLEXIDYNE DRIVES These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver *	Driven ▲				Driver *	Driven ▲	
1750	1.00	5.6	5.6	2-B	1160	1.00	4.8	4.8	2-A
1694	1.03	6.0	6.2	2-B	1114	1.04	4.8	5.0	2-A
1690	1.04	5.6	5.8	2-B	1094	1.06	5.0	5.3	2-3V
1641	1.07	6.0	6.4	2-B	1082	1.07	5.6	6.0	2-3V
1632	1.07	5.6	6.0	2-3V	1071	1.08	4.8	5.2	2-A
1614	1.08	6.0	6.5	2-3V	1072	1.08	6.0	6.5	2-3V
1591	1.10	6.0	6.6	2-B	1055	1.10	6.0	6.6	2-B
1544	1.13	6.0	6.8	2-B	1036	1.12	5.0	5.6	2-A
1524	1.15	5.4	6.2	2-B	1035	1.12	5.0	5.6	2-3V
1520	1.15	6.0	6.9	2-3V	1015	1.14	5.6	6.4	2-B
1506	1.16	5.6	6.5	2-3V	1008	1.15	6.0	6.9	2-3V
1485	1.18	5.6	6.6	2-B	1000	1.16	5.0	5.8	2-A
1441	1.21	5.6	6.8	2-B	998	1.16	5.6	6.5	2-3V
1419	1.23	6.0	7.4	2-B	994	1.17	4.8	5.6	2-A
1418	1.23	5.6	6.9	2-3V	984	1.18	5.6	6.6	2-B
1390	1.26	5.4	6.8	2-B	967	1.20	5.0	6.0	2-A
1324	1.32	5.6	7.4	2-B	965	1.20	5.0	6.0	2-3V
1310	1.34	6.0	8.0	2-3V	960	1.21	4.8	5.8	2-A
1277	1.37	5.4	7.4	2-B	941	1.23	6.0	7.4	2-B
1265	1.38	5.0	6.9	2-3V	940	1.23	5.6	6.9	2-3V
1221	1.43	6.0	8.6	2-B	935	1.24	5.0	6.2	2-A
1222	1.43	5.6	8.0	2-3V	928	1.25	4.8	6.0	2-A
1140	1.54	5.6	8.6	2-B	906	1.28	5.0	6.4	2-A
1117	1.57	6.0	9.4	2-B	898	1.29	4.8	6.2	2-A
1099	1.59	5.4	8.6	2-B	890	1.30	5.0	6.5	2-3V
1090	1.61	5.0	8.0	2-3V	887	1.31	5.2	6.8	2-B
1043	1.68	5.6	9.4	2-B	870	1.33	4.8	6.4	2-A
1005	1.74	5.4	9.4	2-B	868	1.34	6.0	8.0	2-3V
987	1.77	6.0	10.6	2-3V	862	1.35	5.2	7.0	2-A
968	1.81	5.2	9.4	2-B	846	1.37	5.4	7.4	2-B
955	1.83	6.0	11.0	2-B	838	1.38	5.0	6.9	2-3V
921	1.90	5.6	10.6	2-3V	829	1.40	5.0	7.0	2-A
891	1.96	5.6	11.0	2-B	809	1.43	6.0	8.6	2-B
859	2.04	5.4	11.0	2-B	810	1.43	5.6	8.0	2-3V
847	2.07	6.0	12.4	2-B	795	1.46	4.8	7.0	2-A
827	2.12	5.2	11.0	2-B	755	1.54	5.6	8.6	2-B
821	2.13	5.0	10.6	2-3V	736	1.58	5.2	8.2	2-A
790	2.21	5.6	12.4	2-B	722	1.61	5.0	8.0	2-3V
762	2.30	5.4	12.4	2-B	707	1.64	5.0	8.2	2-A
746	2.34	6.0	14.0	2-3V	679	1.71	4.8	8.2	2-A
734	2.38	5.2	12.4	2-B	670	1.73	5.2	9.0	2-A
696	2.51	5.6	14.0	2-3V	654	1.77	6.0	10.6	2-3V
682	2.57	6.0	15.4	2-B	644	1.80	5.0	9.0	2-A
636	2.75	5.6	15.4	2-B	619	1.87	4.8	9.0	2-A
621	2.82	5.0	14.0	2-3V	610	1.90	5.6	10.6	2-3V
614	2.85	5.4	15.4	2-B	591	1.96	5.6	11.0	2-B
591	2.96	5.2	15.4	2-B	569	2.04	5.4	11.0	2-B
571	3.07	6.0	18.4	2-B	547	2.12	5.0	10.6	2-A
549	3.18	6.0	19.0	2-3V	544	2.13	5.0	10.6	2-3V
525	3.33	6.0	20.0	2-B	525	2.21	4.8	10.6	2-A
514	3.41	5.4	18.4	2-B	495	2.34	6.0	14.0	2-3V
513	3.41	5.6	19.0	2-3V	486	2.38	5.2	12.4	2-B
490	3.57	5.6	20.0	2-B	464	2.50	4.8	12.0	2-A
455	3.85	5.2	20.0	2-B	462	2.51	5.6	14.0	2-3V
457	3.83	5.0	19.0	2-3V	422	2.75	5.6	15.4	2-B
420	4.17	6.0	25.0	2-B	412	2.82	5.0	14.0	2-3V
417	4.19	6.0	25.0	2-3V	402	2.88	5.2	15.0	2-A
392	4.46	5.6	25.0	2-B	387	3.00	5.0	15.0	2-A
389	4.50	5.6	25.0	2-3V	371	3.12	4.8	15.0	2-A
378	4.63	5.4	25.0	2-B	364	3.18	6.0	19.0	2-3V
364	4.81	5.2	25.0	2-B	340	3.41	5.6	19.0	2-3V
350	5.00	6.0	30.0	2-B	322	3.60	5.0	18.0	2-A
347	5.04	5.0	25.0	2-3V	309	3.75	4.8	18.0	2-A
327	5.36	5.6	30.0	2-B	303	3.83	5.0	19.0	2-3V
303	5.77	5.2	30.0	2-B	278	4.17	6.0	25.0	2-B
276	6.33	6.0	38.0	2-B	277	4.19	6.0	25.0	2-3V
258	6.79	5.6	38.0	2-B	258	4.50	5.6	25.0	2-3V
249	7.04	5.4	38.0	2-B	230	5.04	5.0	25.0	2-3V

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

*Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

V-BELT DRIVES FOR 9D FLEXIDYNE DRIVES

These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver	Driven				Driver	Driven	
1750	1.00	4.75	4.75	4-3V	1160	1.00	4.75	4.75	4-3V
1683	1.04	5.0	5.2	5-A	1115	1.04	5.0	5.2	5-A
1667	1.05	4.75	5.0	4-3V	1105	1.05	4.75	5.0	4-3V
1636	1.07	5.6	6.0	4-A	1084	1.07	5.6	6.0	4-A
1620	1.08	5.2	5.6	5-A	1074	1.08	5.2	5.6	5-A
1577	1.11	5.4	6.0	5-B	1045	1.11	5.4	6.0	5-B
1563	1.12	4.75	5.3	4-3V	1036	1.12	4.75	5.3	4-3V
1549	1.13	5.3	6.0	4-3V	1027	1.13	5.3	6.0	4-3V
1535	1.14	5.6	6.4	4-A	1018	1.14	5.6	6.4	4-A
1522	1.15	6.0	6.9	4-3V	1009	1.15	6.0	6.9	4-3V
1496	1.17	6.0	7.0	4-A	991	1.17	6.0	7.0	4-A
1483	1.18	4.75	5.6	4-3V	983	1.18	4.75	5.6	4-3V
1458	1.20	5.0	6.0	5-A	967	1.20	5.0	6.0	5-A
1423	1.23	5.3	6.5	4-3V	943	1.23	5.3	6.5	4-3V
1400	1.25	5.6	7.0	4-A	928	1.25	5.6	7.0	4-A
1378	1.27	4.75	6.0	4-3V	913	1.27	4.75	6.0	4-3V
1367	1.28	5.0	6.4	5-A	906	1.28	5.0	6.4	5-A
1346	1.30	5.3	6.9	4-3V	892	1.30	5.3	6.9	4-3V
1326	1.32	5.6	7.4	5-B	879	1.32	5.6	7.4	5-B
1306	1.34	6.0	8.0	4-3V	866	1.34	6.0	8.0	4-3V
1296	1.35	5.2	7.0	5-A	859	1.35	5.2	7.0	5-A
1277	1.37	4.75	6.5	4-3V	847	1.37	4.75	6.5	4-3V
1250	1.40	5.0	7.0	5-A	829	1.40	5.0	7.0	5-A
1224	1.43	6.0	8.6	4-B	811	1.43	6.0	8.6	4-B
1199	1.46	4.75	6.9	4-3V	795	1.46	4.75	6.9	4-3V
1159	1.51	5.3	8.0	4-3V	768	1.51	5.3	8.0	4-3V
1136	1.54	5.6	8.6	5-B	753	1.54	5.6	8.6	5-B
1108	1.58	5.2	8.2	5-A	734	1.58	5.2	8.2	5-A
1087	1.61	5.6	9.0	4-A	720	1.61	5.6	9.0	4-A
1067	1.64	5.0	8.2	5-A	707	1.64	5.0	8.2	5-A
1036	1.69	4.75	8.0	4-3V	686	1.69	4.75	8.0	4-3V
1012	1.73	5.2	9.0	5-A	671	1.73	5.2	9.0	5-A
989	1.77	6.0	10.6	4-3V	655	1.77	6.0	10.6	4-3V
972	1.80	5.0	9.0	5-A	644	1.80	5.0	9.0	5-A
956	1.83	6.0	11.0	4-B	634	1.83	6.0	11.0	4-B
926	1.89	5.6	10.6	4-A	614	1.89	5.6	10.6	4-A
902	1.94	6.4	12.4	4-B	598	1.94	6.4	12.4	4-B
871	2.01	5.3	10.6	4-3V	577	2.01	5.3	10.6	4-3V
858	2.04	5.2	10.6	5-A	569	2.04	5.2	10.6	5-A
818	2.14	5.6	12.0	4-A	542	2.14	5.6	12.0	4-A
792	2.21	5.6	12.4	5-B	525	2.21	5.6	12.4	5-B
781	2.24	4.75	10.6	4-3V	518	2.24	4.75	10.6	4-3V
748	2.34	6.0	14.0	4-3V	496	2.34	6.0	14.0	4-3V
729	2.40	5.0	12.0	5-A	483	2.40	5.0	12.0	5-A
700	2.50	6.0	12.0	4-A	464	2.50	6.0	15.0	4-A
681	2.57	6.0	15.4	4-B	451	2.57	6.0	15.4	4-B
658	2.66	5.3	14.0	4-3V	436	2.66	5.3	14.0	4-3V
636	2.75	5.6	15.4	5-B	422	2.75	5.6	15.4	5-B
608	2.88	5.2	15.0	5-A	403	2.88	5.2	15.0	5-A
589	2.97	4.75	14.0	4-3V	391	2.97	4.75	14.0	4-3A
570	3.07	6.0	18.4	4-B	378	3.07	6.0	18.4	4-B
545	3.21	5.6	18.0	4-A	361	3.21	5.6	18.0	4-A
532	3.29	5.6	18.4	5-B	353	3.29	5.6	18.4	5-B
506	3.46	5.2	18.0	5-A	335	3.46	5.2	18.0	5-A
485	3.61	5.3	19.0	4-3V	321	3.61	5.3	19.0	4-3V
473	3.70	5.4	20.0	5-B	314	3.70	5.4	20.0	5-B
448	3.91	6.4	25.0	4-B	297	3.91	6.4	25.0	4-B
434	4.03	4.75	19.0	4-3V	288	4.03	4.75	19.0	4-3V
420	4.17	6.0	25.0	4-B	278	4.17	6.0	25.0	4-B
392	4.46	5.6	25.0	5-B	260	4.46	5.6	25.0	5-B
368	4.75	5.3	25.0	4-3V	244	4.75	5.3	25.0	4-3V
350	5.00	6.0	30.0	4-B	232	5.00	6.0	30.0	4-B
330	5.31	4.75	25.0	4-3V	218	5.31	4.75	25.0	4-3V
311	5.62	6.0	33.5	4-3V	206	5.62	6.0	33.5	4-3V
295	5.94	6.4	38.0	4-B	195	5.94	6.4	38.0	4-B
275	6.37	5.3	33.5	4-3V	182	6.37	5.3	33.5	4-3V
258	6.79	5.6	38.0	5-B	171	6.79	5.6	38.0	5-B
246	7.12	4.75	33.5	4-3V	163	7.12	4.75	33.5	4-3V

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

*Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE V-BELT DRIVES FOR 11D, 11DL FLEXIDYNE DRIVES These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver *	Driven ▲				Driver *	Driven ▲	
1750	1.00	6.5	6.5	5-3V	1160	1.00	6.5	6.5	5-3V
1750	1.00	6.8	6.8	5-B	1160	1.00	6.8	6.8	5-B
1699	1.03	6.6	6.8	5-B	1126	1.03	6.6	6.8	5-B
1651	1.06	6.5	6.9	5-3V	1094	1.06	6.5	6.9	5-3V
1636	1.07	7.5	8.0	3-5V	1084	1.07	7.5	8.0	3-5V
1606	1.09	6.8	7.4	5-B	1064	1.09	6.8	7.4	5-B
1563	1.12	6.6	7.4	5-B	1036	1.12	6.6	7.4	5-B
1535	1.14	7.5	8.5	3-5V	1022	1.14	7.5	8.5	3-5V
1509	1.16	7.4	8.6	5-B	1000	1.16	7.4	8.6	5-B
1509	1.16	6.9	8.0	5-3V	1000	1.16	6.9	8.0	5-3V
1458	1.20	7.5	9.0	3-5V	967	1.20	7.5	9.0	3-5V
1423	1.23	6.5	8.0	5-3V	943	1.23	6.5	8.0	5-3V
1411	1.24	7.5	9.25	3-5V	935	1.24	7.5	9.25	3-5V
1389	1.26	6.8	8.6	5-B	921	1.26	6.8	8.6	5-B
1378	1.27	7.4	9.4	5-B	913	1.27	7.4	9.4	5-B
1367	1.28	8.6	11.0	5-B	906	1.28	8.6	11.0	5-B
1346	1.30	7.5	9.75	3-5V	892	1.30	7.5	9.75	3-5V
1346	1.30	6.6	8.6	5-B	892	1.30	6.6	8.6	5-B
1268	1.38	7.5	10.3	3-5V	841	1.38	7.5	10.3	3-5V
1268	1.38	6.8	9.4	5-B	841	1.38	6.8	9.4	5-B
1232	1.42	6.6	9.4	5-B	817	1.42	6.6	9.4	5-B
1215	1.44	8.6	12.4	5-B	806	1.44	8.6	12.4	5-B
1199	1.46	7.5	10.9	3-5V	795	1.46	7.5	10.9	3-5V
1174	1.49	7.4	11.0	5-B	779	1.49	7.4	11.0	5-B
1136	1.54	6.9	10.6	3-3V	753	1.54	6.9	10.6	5-3V
1108	1.58	7.5	11.8	3-5V	734	1.58	7.5	11.8	3-5V
1080	1.62	6.8	11.0	5-B	716	1.62	6.8	11.0	5-B
1067	1.64	6.5	10.6	5-3V	707	1.64	6.5	10.6	5-3V
1048	1.67	6.6	11.0	5-B	695	1.67	6.6	11.0	5-B
1042	1.68	7.5	12.5	3-5V	690	1.68	7.5	12.5	3-5V
1042	1.68	7.4	12.4	5-B	690	1.68	7.4	12.4	5-B
989	1.77	7.5	13.2	3-5V	655	1.77	7.5	13.2	3-5V
978	1.79	8.6	15.4	5-B	648	1.79	8.6	15.4	5-B
962	1.82	6.8	12.4	5-B	637	1.82	6.8	12.4	5-B
931	1.88	7.5	14.0	3-5V	617	1.88	7.5	14.0	3-5V
931	1.88	6.6	12.4	5-B	617	1.88	6.6	12.4	5-B
871	2.01	7.5	15.0	3-5V	577	2.01	7.5	15.0	3-5V
858	2.04	6.9	14.0	5-3V	569	2.04	6.9	14.0	5-3V
841	2.08	7.4	15.4	5-B	558	2.08	7.4	15.4	5-B
818	2.14	8.6	18.4	5-B	542	2.14	8.6	18.4	5-B
814	2.15	7.5	16.0	3-5V	540	2.15	7.5	16.0	3-5V
810	2.16	6.5	14.0	5-3V	537	2.16	6.5	14.0	5-3V
774	2.26	6.8	15.4	5-B	513	2.26	6.8	15.4	5-B
751	2.33	6.6	15.4	5-B	498	2.33	6.6	15.4	5-B
703	2.49	7.4	18.4	5-B	466	2.49	7.4	18.4	5-B
646	2.71	6.8	18.4	5-B	428	2.71	6.8	18.4	5-B
632	2.77	6.9	19.0	5-3V	419	2.77	6.9	19.0	5-3V
627	2.79	6.6	18.4	5-B	416	2.79	6.6	18.4	5-B
614	2.85	7.5	21.2	3-5V	407	2.85	7.5	21.2	3-5V
601	2.91	8.6	25.0	5-B	399	2.91	8.6	25.0	5-B
595	2.94	6.5	19.0	5-3V	395	2.94	6.5	19.0	5-3V
578	3.03	6.6	20.0	5-B	383	3.03	6.6	20.0	5-B
518	3.38	7.4	25.0	5-B	343	3.38	7.4	25.0	5-B
501	3.49	8.6	30.0	5-B	332	3.49	8.6	30.0	5-B
481	3.64	6.9	25.0	5-3V	319	3.64	6.9	25.0	5-3V
476	3.68	6.8	25.0	5-B	315	3.68	6.8	25.0	5-B
464	3.77	7.5	28.0	3-5V	308	3.77	7.5	28.0	3-5V
462	3.79	6.6	25.0	5-B	306	3.79	6.6	25.0	5-B
452	3.87	6.5	25.0	5-3V	300	3.87	6.5	25.0	5-3V
432	4.05	7.4	30.0	5-B	286	4.05	7.4	30.0	5-B
397	4.41	6.8	30.0	5-B	263	4.41	6.8	30.0	5-B
385	4.55	6.6	30.0	5-B	255	4.55	6.6	30.0	5-B
359	4.88	6.9	33.5	5-3V	238	4.88	6.9	33.5	5-3V
347	5.05	7.5	37.5	3-5V	230	5.05	7.5	37.5	3-5V
340	5.14	7.4	38.0	5-B	226	5.14	7.4	38.0	5-B
337	5.19	6.5	33.5	5-3V	224	5.19	6.5	33.5	5-3V
313	5.59	6.8	38.0	5-B	208	5.59	6.8	38.0	5-B
304	5.76	6.6	38.0	5-B	201	5.76	6.6	38.0	5-B

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

*Stock TAPER-LOCK sheaves in V-drives section.

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MODIFICATIONS/ ACCESSORIES



FLEXIDYNE

V-BELT DRIVES FOR 15D FLEXIDYNE DRIVES

These are typical drives for average service conditions

Driven by 1750 RPM Motors					Driven by 1750 RPM Motors				
Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆	Driven RPM	V-Belt Drive Ratio	Diameter ★		Quan. & Belt Size ◆
		Driver	Driven				Driver	Driven	
1750	1.00	9.75	9.75	4-5V	1160	1.00	9.75	9.75	4-5V
1699	1.03	9.0	9.25	5-5V	1126	1.03	9.0	9.25	5-5V
1663	1.05	9.5	10.0	6-C	1102	1.05	9.5	10.0	6-C
1651	1.06	9.75	10.3	4-5V	1094	1.06	9.75	10.3	4-5V
1620	1.08	9.0	9.75	5-5V	1074	1.08	9.0	9.75	5-5V
1606	1.09	8.5	9.25	5-5V	1064	1.09	8.5	9.25	5-5V
1591	1.10	10.0	11.0	6-C	1055	1.10	10.0	11.0	6-C
1575	1.11	9.0	10.0	6-C	1044	1.11	9.0	10.0	6-C
1563	1.12	9.75	10.9	4-5V	1036	1.12	9.75	10.9	4-5V
1531	1.14	10.5	12.0	5-C	1015	1.14	10.5	12.0	5-C
1522	1.15	8.5	9.75	5-5V	1009	1.15	8.5	9.75	5-5V
1496	1.17	9.0	10.5	6-C	994	1.17	9.0	10.5	6-C
1458	1.20	10.0	12.0	6-C	966	1.20	10.0	12.0	6-C
1446	1.21	9.75	11.8	4-5V	959	1.21	9.75	11.8	4-5V
1432	1.22	9.0	11.0	6-C	949	1.22	9.0	11.0	6-C
1413	1.24	10.5	13.0	5-C	937	1.24	10.5	13.0	5-C
1385	1.26	9.5	12.0	6-C	918	1.26	9.5	12.0	6-C
1367	1.28	9.75	12.5	4-3V	906	1.28	9.75	12.5	4-3V
1357	1.29	8.5	10.9	5-5V	899	1.29	8.5	10.9	5-5V
1346	1.30	10.0	13.0	6-C	892	1.30	10.0	13.0	6-C
1336	1.31	9.0	11.8	5-5V	885	1.31	9.0	11.8	5-5V
1313	1.33	10.5	14.0	5-C	870	1.33	10.5	14.0	5-C
1287	1.36	9.75	13.2	4-5V	853	1.36	9.75	13.2	4-5V
1279	1.37	9.5	13.0	6-C	848	1.37	9.5	13.0	6-C
1259	1.39	8.5	11.8	5-5V	835	1.39	8.5	11.8	5-5V
1250	1.40	10.0	14.0	6-C	829	1.40	10.0	14.0	6-C
1215	1.44	9.75	14.0	4-5V	806	1.44	9.75	14.0	4-5V
1190	1.47	9.0	13.2	5-5V	789	1.47	9.0	13.2	5-5V
1182	1.48	8.5	12.5	5-5V	784	1.48	8.5	12.5	5-5V
1148	1.52	10.5	16.0	5-C	761	1.52	10.5	16.0	5-C
1136	1.54	9.75	15.0	4-5V	753	1.54	9.75	15.0	4-5V
1122	1.56	8.5	13.2	5-5V	744	1.56	8.5	13.2	5-5V
1094	1.60	10.0	16.0	6-C	725	1.60	10.0	16.0	6-C
1061	1.65	9.75	16.0	4-5V	703	1.65	9.75	16.0	4-5V
1048	1.67	9.0	15.0	5-5V	695	1.67	9.0	15.0	5-5V
1039	1.68	9.5	16.0	6-C	689	1.68	9.5	16.0	6-C
989	1.77	8.5	15.0	5-5V	655	1.77	8.5	15.0	5-5V
978	1.79	9.0	16.0	5-5V	648	1.79	9.0	16.0	5-5V
926	1.89	8.5	16.0	5-5V	614	1.89	8.5	16.0	5-5V
919	1.91	10.5	20.0	5-C	609	1.91	10.5	20.0	5-C
875	2.00	10.0	20.0	6-C	580	2.00	10.0	20.0	6-C
831	2.10	9.5	20.0	6-C	551	2.10	9.5	20.0	6-C
799	2.19	9.75	21.2	4-5V	530	2.19	9.75	21.2	4-5V
788	2.22	9.0	20.0	6-C	522	2.22	9.0	20.0	6-C
766	2.28	10.5	24.0	5-C	508	2.28	10.5	24.0	5-C
738	2.37	9.0	21.2	5-5V	489	2.37	9.0	21.2	5-5V
729	2.40	10.0	24.0	6-C	483	2.40	10.0	24.0	6-C
697	2.51	8.5	21.2	5-5V	462	2.51	8.5	21.2	5-5V
656	2.67	9.0	24.0	6-C	435	2.67	9.0	24.0	6-C
612	2.86	10.5	30.0	5-C	406	2.86	10.5	30.0	5-C
606	2.89	9.75	28.0	4-5V	401	2.89	9.75	28.0	4-5V
583	3.00	10.0	30.0	6-C	386	3.00	10.0	30.0	6-C
559	3.13	9.0	28.0	5-5V	371	3.13	9.0	28.0	5-5V
527	3.32	8.5	28.0	5-5V	349	3.32	8.5	28.0	5-5V
510	3.43	10.5	36.0	5-C	338	3.43	10.5	36.0	5-C
486	3.60	10.0	36.0	6-C	322	3.60	10.0	36.0	6-C
462	3.79	9.5	36.0	6-C	306	3.79	9.5	36.0	6-C
451	3.88	9.75	37.5	4-5V	299	3.88	9.75	37.5	4-5V
438	4.00	9.0	36.0	6-C	290	4.00	9.0	36.0	6-C
417	4.20	9.0	37.5	5-5V	276	4.20	9.0	37.5	5-5V
393	4.45	8.5	37.5	5-5V	261	4.45	8.5	37.5	5-5V
378	4.64	9.5	44.0	6-C	251	4.64	9.5	44.0	6-C
368	4.76	10.5	50.0	5-C	244	4.76	10.5	50.0	5-C
358	4.89	9.0	44.0	6-C	237	4.89	9.0	44.0	6-C
350	5.00	10.0	50.0	6-C	232	5.00	10.0	50.0	6-C
338	5.17	9.75	50.0	4-5V	224	5.17	9.75	50.0	4-5V
312	5.61	9.0	50.0	5-5V	207	5.61	9.0	50.0	5-5V
295	5.94	8.5	50.0	5-5V	195	5.94	8.5	50.0	5-5V

*Stock FLEXIDYNE sheaves listed on page PT3-16 - PT3-17.

*Stock TAPER-LOCK sheaves in V-drives section.

★ Outside diameter of 3V Dyna-V sheaves. Datum diameter of A and B sheaves. All ratios are based on P.D. for DYNA-V Sheaves and Datum diameter for A and B Sheaves.

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FLEXIDYNE

5CF FLEXIDYNE MECHANISM USED IN A C-FLEX MODULE

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*						
		0.50	1.00	1.50	2.00	2.50	3.00	3.60
2 Hours	1750	140	90	70	56	50	44	37
1 Hour	1750	140	90	70	56	50	44	37
30 Min.	1750	140	90	70	56	50	44	37
15 Min.	1750	140	90	70	56	50	44	37
10 Min.	1750	125	80	60	48	42	39	32
5 Min.	1750	74	46	46	29	26	23	20
2 Min.	1750	30	19	15	12	10	8	5
1 Min.	1750	15	10	5	3	....	....	....

Table may be interpolated for HP and cycle times between those figures listed.

THERMAL CAPACITIES

FLEXIDYNE MECHANISM SIZE 5

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*					
		0.30	0.50	0.70	0.90	1.10	1.30
2 Hours	1750	330	220	170	128	116	104
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
1 Hour	1750	330	220	170	128	116	104
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
30 Min.	1750	330	220	170	128	116	104
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
15 Min.	1750	330	220	170	128	116	104
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
10 Min.	1750	300	200	150	116	105	94
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
5 Min.	1750	170	116	88	68	62	55
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
2 Min.	1750	70	47	35	27	25	22
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....
1 Min.	1750	35	23	18	14	12	11
	1160	....	....	....	....	....	....
	870	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed.

* Starting HP is dependent on the amount of flow charge used.

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FLEXIDYNE

FLEXIDYNE MECHANISM SIZE 55

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*								
		0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00
2 Hours	1750	....	....	125	92	76	67	60	55	50
	1160	250	175	148	110	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
1 Hour	1750	....	....	125	92	76	67	60	55	50
	1160	250	175	148	110	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
30 Min.	1750	....	....	125	92	76	67	60	55	50
	1160	250	175	148	110	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
15 Min.	1750	....	....	125	92	76	67	60	55	50
	1160	250	175	148	110	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
10 Min.	1750	....	....	96	67	60	52	47	43	40
	1160	190	130	110	82	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
5 Min.	1750	....	....	58	41	37	32	29	25	20
	1160	110	80	68	50	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
2 Min.	1750	....	....	30	23	20	17	15	13	10
	1160	60	40	35	28	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....
1 Min.	1750	....	....	19	15	13	11	9	8	6
	1160	33	26	22	18	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....

FLEXIDYNE MECHANISM SIZE 70

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*									
		0.50	0.75	1.00	2.00	2.50	3.00	4.00	6.00	8.00	10.00
2 Hours	1750	....	....	....	210	180	150	110	80	63	53
	1160	....	....	500	260	190	170	130	....	....	....
	870	900	800	550	....	....	....	....	....	....	....
1 Hour	1750	....	....	....	210	180	150	110	80	63	53
	1160	....	....	500	260	190	170	130	....	....	....
	870	900	800	550	....	....	....	....	....	....	....
30 Min.	1750	....	....	....	210	180	150	110	80	63	53
	1160	....	....	500	260	190	170	130	....	....	....
	870	900	800	550	....	....	....	....	....	....	....
15 Min.	1750	....	....	....	190	160	140	100	72	56	46
	1160	....	....	450	230	165	155	118	....	....	....
	870	800	700	500	....	....	....	....	....	....	....
10 Min.	1750	....	....	....	170	140	120	83	60	41	36
	1160	....	....	320	190	143	133	90	....	....	....
	870	500	400	330	....	....	....	....	....	....	....
5 Min.	1750	....	....	....	105	85	74	54	38	29	23
	1160	....	....	200	120	88	80	60	....	....	....
	870	250	230	210	....	....	....	....	....	....	....
2 Min.	1750	....	....	....	58	45	39	30	21	16	13
	1160	....	....	80	60	49	45	36	....	....	....
	870	100	100	100	....	....	....	....	....	....	....
1 Min.	1750	....	....	....	36	29	25	19	13	10	8
	1160	....	....	45	38	33	28	23	....	....	....
	870	50	50	50	....	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed.

* Starting HP is dependent on the amount of flow charge used

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FLEXIDYNE

FLEXIDYNE MECHANISM SIZE 75

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*									
		1.00	2.00	3.00	4.00	5.00	7.00	8.00	10.00	15.00	20.00
2 Hours	1750	....	....	....	....	85	73	70	58	48	40
	1160	....	250	150	110	90	75	....	....	....	....
	870	520	300	200	....	....	....	....	....	....	....
1 Hour	1750	....	....	....	....	85	73	70	58	48	40
	1160	....	250	150	110	90	75	....	....	....	....
	870	520	300	200	....	....	....	....	....	....	....
30 Min.	1750	....	....	....	....	85	73	70	58	48	40
	1160	....	250	150	110	90	75	....	....	....	....
	870	520	300	200	....	....	....	....	....	....	....
15 Min.	1750	....	....	....	....	80	68	64	53	43	35
	1160	....	220	130	100	85	70	....	....	....	....
	870	520	300	200	....	....	....	....	....	....	....
10 Min.	1750	....	....	....	....	65	57	54	45	34	27
	1160	....	180	110	82	70	60	....	....	....	....
	870	420	210	150	....	....	....	....	....	....	....
5 Min.	1750	....	....	....	....	40	37	35	30	21	17
	1160	....	110	65	50	45	38	....	....	....	....
	870	260	130	100	....	....	....	....	....	....	....
2 Min.	1750	....	....	....	....	22	20	18	16	11	8
	1160	....	60	40	28	24	21	....	....	....	....
	870	100	80	52	....	....	....	....	....	....	....
1 Min.	1750	....	....	....	....	15	13	11	10	8	5
	1160	....	40	22	18	16	14	....	....	....	....
	870	50	40	30	....	....	....	....	....	....	....

FLEXIDYNE MECHANISM SIZE 9

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*									
		2.50	5	10.00	15.00	17.50	20.00	25.00	30.00	35.00	38.00
2 Hours	1750	....	....	135	76	64	52	40	26	21	16
	1160	....	230	150	120	110	....	....	....	....	....
	870	1000	310	....	....	....	....	....	....	....	....
1 Hour	1750	....	....	135	76	64	52	40	26	21	16
	1160	....	230	150	120	110	....	....	....	....	....
	870	1000	310	....	....	....	....	....	....	....	....
30 Min.	1750	....	....	135	76	64	52	40	26	21	16
	1160	....	230	150	120	110	....	....	....	....	....
	870	820	260	....	....	....	....	....	....	....	....
15 Min.	1750	....	....	118	66	55	45	35	22	18	15
	1160	....	190	120	100	92	....	....	....	....	....
	870	600	180	....	....	....	....	....	....	....	....
10 Min.	1750	....	....	100	58	48	38	30	18	15	13
	1160	....	160	100	85	78	....	....	....	....	....
	870	425	140	....	....	....	....	....	....	....	....
5 Min.	1750	....	....	70	38	31	25	20	12	10	9
	1160	....	100	65	50	47	....	....	....	....	....
	870	225	70	....	....	....	....	....	....	....	....
2 Min.	1750	....	....	28	15	12	10	8	5	4	3
	1160	....	42	26	21	19	....	....	....	....	....
	870	90	27	....	....	....	....	....	....	....	....
1 Min.	1750	....	....	14	7	6	5	4	....	....	....
	1160	....	22	13	11	9	....	....	....	....	....
	870	45	13	....	....	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed.

* Starting HP is dependent on the amount of flow charge used

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ENGINEERING/TECHNICAL



FLEXIDYNE

FLEXIDYNE MECHANISM SIZE 11

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*										
		5	10	20	30	40	50	60	70	80	90	100
2 Hours	1750	....	....	116	80	44	34	24	21	18	16	14
	1160	....	480	308	136	107	78	....	....	....	....	....
	870	1000	600	320	....	....	....	....	....	....	....	....
1 Hour	1750	....	....	116	80	44	34	24	21	18	16	14
	1160	....	480	308	136	107	78	....	....	....	....	....
	870	950	560	300	....	....	....	....	....	....	....	....
30 Min.	1750	....	....	116	80	44	34	24	21	18	16	14
	1160	....	400	257	115	89	64	....	....	....	....	....
	870	700	440	230	....	....	....	....	....	....	....	....
15 Min.	1750	....	....	96	67	37	28	20	17	15	13	12
	1160	....	270	175	80	63	46	....	....	....	....	....
	870	450	280	150	....	....	....	....	....	....	....	....
10 Min.	1750	....	....	80	56	32	24	17	14	12	11	10
	1160	....	200	130	60	47	35	....	....	....	....	....
	870	290	180	90	....	....	....	....	....	....	....	....
5 Min.	1750	....	....	50	35	20	15	10	9	8	7	6
	1160	....	100	65	30	23	17	....	....	....	....	....
	870	130	80	42	....	....	....	....	....	....	....	....
2 Min.	1750	....	....	21	14	8	6	4	3	....	....	....
	1160	....	40	26	12	9	6	....	....	....	....	....
	870	46	30	15	....	....	....	....	....	....	....	....
1 Min.	1750	....	....	11	7	4	3	....	....	....	....	....
	1160	....	20	13	6	4	3	....	....	....	....	....
	870	21	13	6	....	....	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed.

* Starting HP is dependent on the amount of flow charge used



FLEXIDYNE

FLEXIDYNE MECHANISM SIZE 15

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*									
		10	20	30	40	50	60	70	80	90	100
2 Hours	1750	....	....	....	....	35	31	27	23	20	16
	1160	....	230	167	105	81	56	47	39	33	28
	870	560	300	200	145	....	....	....	....	....	....
1 Hour	1750	....	....	....	....	35	31	27	23	20	16
	1160	....	230	167	105	81	56	47	39	33	28
	870	560	300	200	145	....	....	....	....	....	....
30 Min.	1750	....	....	....	....	34	30	26	22	18	15
	1160	....	230	167	105	81	56	47	39	33	28
	870	460	240	160	120	....	....	....	....	....	....
15 Min.	1750	....	....	....	....	30	27	23	20	16	13
	1160	....	190	140	90	68	47	40	33	28	24
	870	350	170	125	90	....	....	....	....	....	....
10 Min.	1750	....	....	....	....	28	25	21	17	15	13
	1160	....	160	117	74	57	40	34	28	24	20
	870	260	130	95	68	....	....	....	....	....	....
5 Min.	1750	....	....	....	....	19	16	14	12	10	9
	1160	....	100	73	46	35	25	21	17	14	12
	870	160	80	60	42	....	....	....	....	....	....
2 Min.	1750	....	....	....	....	12	10	9	7	6	5
	1160	....	44	32	20	15	11	9	7	6	5
	870	85	42	32	22	....	....	....	....	....	....
1 Min.	1750	....	....	....	....	8	7	6	5	4	3
	1160	....	23	17	10	7	5	5	4	3	3
	870	53	25	19	14	....	....	....	....	....	....

Frequency of Starts	RPM	Starting Horsepower*									
		10	20	30	40	50	60	70	80	90	100
2 Hours	1750	15	14	13	12	11	10	9	9	8	8
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
1 Hour	1750	15	14	13	12	11	10	9	9	8	8
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
30 Min.	1750	14	13	12	11	10	10	9	9	8	7
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
15 Min.	1750	12	11	10	10	9	8	8	7	7	6
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
10 Min.	1750	12	11	10	9	8	8	7	7	6	6
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
5 Min.	1750	8	7	7	6	6	6	5	5	4	4
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
2 Min.	1750	5	4	4	3	3	....	....	....	....	....
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....
1 Min.	1750	3	....	....	....	....	....	....	....	....	....
	1160	....	....	....	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed

* Starting HP is dependent on the amount of flow charge used.

Thermal capacities are shown for single cavity units. For duplex cavities, starting horsepower = (HP * Starting Torque%)/2

Caution: At these capacities, the housing temperature may reach 250 degrees F.

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FLEXIDYNE

FEXIDYNE MECHANISM SIZE 18

Maximum Allowable Acceleration Time (seconds)

Frequency of Starts	RPM	Starting Horsepower*							
		20	40	60	80	100	120	140	160
2 Hours	1160	....	....	....	....	60	49	38	33
	870	....	200	160	120	96	72	62	52
	720	600	370	220	160	....	....	....	....
1 Hour	1160	....	....	....	....	60	49	38	33
	870	....	200	160	120	96	72	62	52
	720	560	350	200	150	....	....	....	....
30 Min.	1160	....	....	....	....	56	45	35	30
	870	....	160	130	100	80	60	52	44
	720	450	280	160	120	....	....	....	....
15 Min.	1160	....	....	....	....	44	35	26	23
	870	....	115	94	72	58	45	38	32
	720	300	180	100	74	....	....	....	....
10 Min.	1160	....	....	....	....	32	26	20	17
	870	....	90	72	54	43	32	27	22
	720	200	120	66	48	....	....	....	....
5 Min.	1160	....	....	....	....	17	13	10	9
	870	....	44	35	27	21	16	13	11
	720	90	54	32	23	....	....	....	....
2 Min.	1160	....	....	....	....	7	5	4	4
	870	....	17	13	10	8	6	5	4
	720	35	21	12	8	....	....	....	....
1 Min.	1160	....	....	....	....	....	....	....	....
	870	....	8	6	5	4	3	.....	.....
	720	16	10	5	4	....	....	....	....

Frequency of Starts	RPM	Starting Horsepower*						
		180	200	220	240	260	280	300
2 Hours	1160	28	25	22	20	18	16	14
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
1 Hour	1160	28	25	22	20	18	16	14
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
30 Min.	1160	26	23	20	18	17	15	13
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
15 Min.	1160	20	18	16	14	13	11	10
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
10 Min.	1160	15	13	12	10	9	8	7
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
5 Min.	1160	8	7	6	5	5	4	4
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
2 Min.	1160	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....
1 Min.	1160	....	....	....	....	....	....	....
	870	....	....	....	....	....	....	....
	720	....	....	....	....	....	....	....

Table may be interpolated for HP and cycle times between those figures listed. * Starting HP is dependent on the amount of flow charge used.

Thermal capacities are shown for single cavity units.

For duplex cavities, starting horsepower = (HP * Starting Torque%)/2

Caution: At these capacities, the housing temperature may reach 250 degrees F.

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Fluid Coupling

Features/Benefits PT4-2

Nomenclature PT4-3

Selection PT4-4

Selection/Dimensions

 Fluid Coupling Drives - KSD PT4-6

 Fluid Coupling Drives - KCM PT4-8

 Fluid Coupling Drives - KCP PT4-10

Part Number Index INDEX-1

Keyword Index INDEX-29



FEATURES/BENEFITS



Fluid Couplings

- **Smoother and Shock Free Operation**

- Motor starts under no load conditions
- Smoother starts

- **More Efficient Design**

- Permits use of standard NEMA Design B motors
- Eliminate need for motors with special winding
- Wound rotor motors not needed

- **Overload Protection**

- Provides overload protection at overloads somewhat greater than starting torque
- Protection devices to prevent damage to Fluid Couplings are available

- **Low Current Draw**

- Less than twice the nameplate amperage during both starting and overload periods
- Many electric utilities recommend Fluid Couplings

- **Increased Productivity**

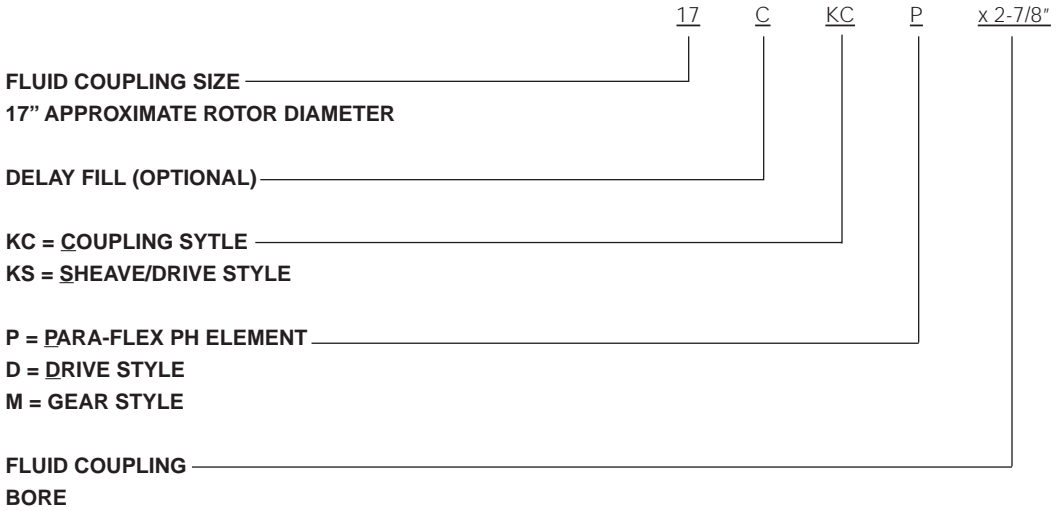
- Eliminates product spillage and machine damage due to harsh starts or jammed loads





Fluid Couplings

NOMENCLATURE





SELECTION



Fluid Couplings

FLUID COUPLING SELECTION

HP	RPM		
	1800	1500	1200
5	8	8	9
7.50	8	9	11
10	8	9	12
15	9	11	12
20	11	12	13
25	11	12	13
30	11	12	15
40	12	13	15
50	13	15	17
60	13	15	17
75	15	15	17
100	15	17	19
125	17	19	21
150	17	19	21
200	19	21	24
250	21	21	24
300	21	24	27
350	21	24	27
400	24	24	27
500	24	27	29



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SELECTION/DIMENSIONS



Fluid Couplings

PART NUMBERS

KSD DRIVE ACCEPTS "OD" STYLE SHEAVE	
PART #	PART DESCRIPTION
118780	7 KSD-QD SDS W/ 1-1/8 COLLET
118781	8 KSD-QD SDS W/ 1-1/8 COLLET
118782	9 KSD-QD SK W/ 1-3/8 COLLET
118783	11 KSD-QD SF W/ 1-7/8 COLLET
118784	12 KSD-QD E W/ 2-1/8 COLLET
118785	13 KSD-QD E W/ 2-1/8 COLLET
118786	13 KSD-QD E W/ 2-3/8 COLLET
118648	15 KSD-QD F W/ 2-3/8 COLLET
118649	15 KSD-QD F W/ 2-7/8 COLLET
118650	17 KSD-QD J W/ 3-3/8 COLLET
118651	19 KSD-QD J W/ 3-3/8 COLLET
118652	21 KSD-QD M W/ 3-3/8 FINISH BORE
118653	24 KSD-QD M W/ 3-3/8 FINISH BORE



Collet Mount: Available on most sizes for ease of installation.

DELAY FILL

CKSD DRIVE ACCEPTS "OD" STYLE SHEAVE	
PART #	PART DESCRIPTION
118654	11 CKSD-QD SF W/ 1-7/8 COLLET
118655	12 CKSD-QD E W/ 2-1/8 COLLET
118656	13 CKSD-QD E W/ 2-1/8 COLLET
118657	13 CKSD-QD E W/ 2-3/8 COLLET
118658	15 CKSD-QD F W/ 2-3/8 COLLET
118659	15 CKSD-QD F W/ 2-7/8 COLLET
118660	17 CKSD-QD J W/ 3-3/8 COLLET
118661	19 CKSD-QD J W/ 3-3/8 COLLET
118662	21 CKSD-QD M W/ 3-3/8 FINISH BORE
118663	24 CKSD-QD M W/ 3-3/8 FINISH BORE

KSD DRIVE ACCEPTS BOLT-ON STYLE SHEAVE	
PART #	PART DESCRIPTION
118787	15 KSD FLUID CPLG W/ 2-3/8 F.B.
118788	15 KSD FLUID CPLG W/ 2-7/8 F.B.
118789	15 KSD FLUID CPLG 2-3/8 COLLET
118790	15 KSD FLUID CPLG 2-7/8 COLLET
118792	17 KSD FLUID CPLG W/ 3-3/8 F.B.
118793	17 KSD FLUID CPLG 3-3/8 COLLET
118794	17 KSD FLUID CPLG 2-3/8 COLLET
118795	19 KSD FLUID CPLG W/ 3-3/8 F.B.
118796	19 KSD FLUID CPLG 3-3/8 COLLET
118797	21 KSD FLUID CPLG W/ 3-3/8 F.B.
118798	24 KSD FLUID CPLG W/ 3-3/8 F.B.

The motor shaft for sizes 15 KSD F.B. style and up must be tapped.

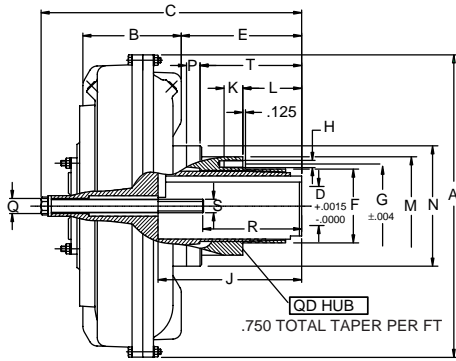
* For non-standard sheaves contact DODGE Drive Components.

KSD BOLT-ON SHEAVES *		
PT NO.	KSD#	DESCRIPTION
118740	15	3GR 5V 12.5
118743	15	4GR 5V 9.75
118744	15	4GR 5V 10.3
118745	15	4GR 5V 10.9
118746	15	4GR 5V 11.3
118747	15	4GR 5V 11.8

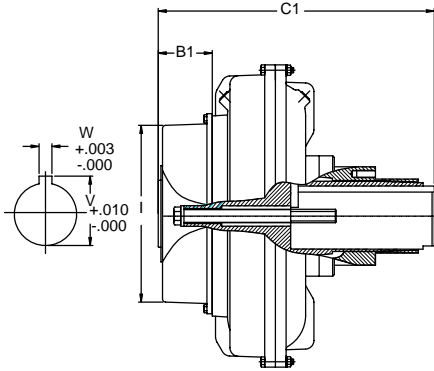
KSD BOLT-ON SHEAVES *		
PT NO.	KSD#	DESCRIPTION
118750	17	4GR 5V 12.5
118755	17	5GR 5V 10.9
118746	17	5GR 5V 11.3
118757	17	5GR 5V 11.8
118758	17	5GR 5V 12.5
118759	17	5GR 5V 13.2
118762	17	6GR 5V 10.9
118763	17	6GR 5V 11.3
118749	17	4GR 5V 11.8
118764	19	6GR 5V 12.5
118765	19	6GR 5V 13.2
118769	19	8GR 5V 10.9
118770	19	8GR 5V 11.3
118771	19	8GR 5V 11.8
118772	21	5GR 8V 14.0
118774	21	6GR 8V 13.2
118775	21	6GR 8V 14.0
118776	21	8GR 8V 13.2
118777	21	8GR 8V 14.0
118778	24	8GR 8V 14.0
118779	24	10GR 8V 13.2



Fluid Couplings



KSD-QD



CKSD-QD

DIMENSIONAL DATA SHEET – KSD & CKSD

Size	D Bore	A	KSD		CKSD		E	F	G	H		J	K	L	M	N	P	Q	R	S	T	QD Hub Size	Weight (lb) Less Oil		Oil U.S. Gal. max.		
			B	B1	C Max	C1 Max				#	Dia												KSD-QD	CKSD-QD	KSD-QD	CKSD-QD	
7	1.375	8.98	3.03		7.10	-	2.77	2.19	2.69	3	1/4-20	2.40	0.6	1.2	3.1	4.5	0.6	1/2-13 UNC		1.94	SDS	13.4		0.24			
	1.125																										
	0.875																										
8	1.375	10.08	3.58		7.33	-	2.61	2.19	2.69	3	1/4-20	2.40	0.6	1.2	3.1	4.5	0.6	1/2-13 UNC		1.94	SDS	14.8		0.40			
	1.125																										
9	1.625	11.61	3.78		9.80	-	3.98	2.81	3.31	3	5/16-18	3.31	0.7	1.5	3.9	5.0	1.0	3/4-10 UNC		2.48	SK	28.7		0.52			
11	1.875	12.80	4.21		10.20	-	3.86	3.13	3.88	3	3/8-16	4.00	0.8	1.5	4.6	5.5	0.8	3/4-10 UNC		2.76	SF	34.2		0.73			
	1.625																										
12	2.125	14.57	4.80	3.15	11.56	13.05	5.10	3.83	5.00	3	1/2-13	4.25	1.1	1.9	6.0	6.1	0.9	3/4-10 UNC		3.98	E	50.7	57.2	1.08	1.27		
	1.875																										
	1.625																										
13	2.375	15.67	5.39	3.15	13.90	14.96	6.42	3.83	5.00	3	1/2-13	4.25	1.1	2.8	6.0	7.0	1.1	3/4-10 UNC		5.22	E	73.9	80.5	1.37	1.53		
	2.125																										
	1.875																										
15	2.875	18.11	5.95	3.62	15.12	17.24	7.68	4.44	5.63	3	9/16-12	7.00	1.2	3.9	6.6	8.0	1.9	7/8-9	5.35	3/4-10	UNC	6.02	F	107	115.8	2.02	2.27
	5.63											3.90															
17	3.375	20.47	6.69	3.98	17.91	20.32	9.65	5.15	6.25	3	5/8-11	8.25	1.4	4.3	8.3	8.3	2.8	11/4-7	6.30	7/8-9	UNC	8.45	J	156	169.2	3.09	3.59
	7.00											5.00															
19	3.375	22.24	7.48	3.98	17.91	20.32	8.86	5.15	6.25	3	5/8-11	8.25	1.4	4.3	8.3	8.3	2.2	11/4-7	6.30	7/8-9	UNC	8.45	J	174	187.2	3.75	4.36
	7.00											5.00															
21	3.875	24.41	8.07	4.53	21.46	24.41	11.81	6.50	7.88	4	3/4-10	1.00	1.6	7.1	9.8	9.8	2.2	11/4-7	6.56	7/8-9	UNC	11.22	M	270	292	5.02	6.08
	3.375				19.88	22.84	10.24					0.88						6.51	9.65								
24	3.875	27.95	9.02	4.53	21.46	24.41	10.87	6.50	7.88	4	3/4-10	1.00	1.6	7.1	9.8	9.8	1.4	11/4-7	6.56	7/8-9	UNC	11.22	M	307	329	7.50	8.24

• Max Bore



SELECTION/DIMENSIONS



Fluid Couplings

PART NUMBERS

FLUID COUPLING ACCEPTS GEAR CPLG HALVES *

PART #	PART DESCRIPTION
118625	7 KCM - LESS 1.0S GEAR COUPLING
118626	8 KCM - LESS 1.0S GEAR COUPLING
118627	9 KCM - LESS 1.5S GEAR COUPLING
118628	11 KCM - LESS 1.5S GEAR COUPLING
118629	12 KCM - LESS 1.5S GEAR COUPLING
118630	13 KCM - LESS 1.5S GEAR COUPLING
118631	15 KCM - LESS 2.5S GEAR COUPLING
118632	17 KCM - LESS 2.5S GEAR COUPLING
118633	19 KCM - LESS 2.5S GEAR COUPLING
118634	21 KCM - LESS 2.5S GEAR COUPLING
118635	24 KCM - LESS 2.5S GEAR COUPLING
118636	27 KCM - LESS 3.5E GEAR COUPLING
118637	29 KCM - LESS 3.5E GEAR COUPLING

DELAY - FILL

PART #	PART DESCRIPTION
118638	11 CKCM - LESS 1.5S GEAR COUPLING
118639	12 CKCM - LESS 1.5S GEAR COUPLING
118640	13 CKCM - LESS 1.5S GEAR COUPLING
118641	15 CKCM - LESS 2.5S GEAR COUPLING
118642	17 CKCM - LESS 2.5S GEAR COUPLING
118643	19 CKCM - LESS 2.5S GEAR COUPLING
118644	21 CKCM - LESS 2.5S GEAR COUPLING
118645	24 CKCM - LESS 2.5S GEAR COUPLING
118646	27 CKCM - LESS 3.5E GEAR COUPLING
118647	29 CKCM - LESS 3.5E GEAR COUPLING

* Gear Coupling Kit ordered separately

GEAR COUPLINGS: For use with Fluid Couplings style KCM and CKCM. Order one kit per fluid coupling - advise bore size.

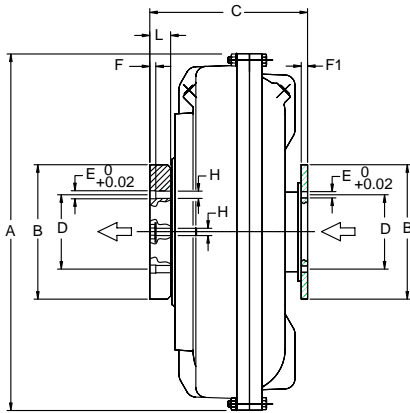
Size	Goes w/Fluid Cplg.	Max Bore
1.0 SB	KCM/CKCM 7, 8	1.625"
1.5 SB	KCM/CKCM 9-13	2.375"
2.5 SB	KCM/CKCM 15-24	3.75"
3.5 EB	KCM/CKCM 27, 29	4.75"

SB = Shrouded Bolt

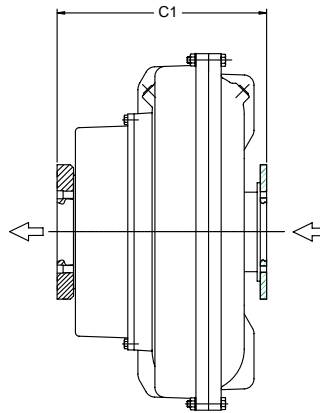
EB = Exposed Bolt



Fluid Couplings



KCM



CKCM

DIMENSIONAL DATA SHEET – KCM & CKCM

Size	A	B	C		D	E		H	Gear Coupling Size	Weight (lb) Less Oil		Oil U.S. Gal. max.	
			KCM	CKCM		#	DIA			KCM	CKCM	KCM	CKCM
7	8.98	4.57	5.51	-	3.75	6	0.25	1/4-28 UNF	1	16	-	0.24	-
8	10.08	4.57	5.71	-	3.75	6	0.25	1/4-28 UNF	1	18	-	0.34	-
9	11.61	6.00	6.97	-	4.81	8	0.38	3/8-24 UNF	1.5	31	-	0.52	-
11	12.80	6.00	7.32	-	4.81	8	0.38	3/8-24 UNF	1.5	35	-	0.73	-
12	14.57	6.00	7.80	10.43	4.81	8	0.38	3/8-24 UNF	1.5	46	53	1.08	1.27
13	15.67	6.00	8.19	11.16	4.81	8	0.38	3/8-24 UNF	1.5	62	68	1.37	1.53
15	18.11	8.39	9.76	12.87	7.00	10	0.50	1/2-20 UNF	2.5	104	112	2.02	2.27
17	20.47	8.39	9.85	13.08	7.00	10	0.50	1/2-20 UNF	2.5	146	159	3.09	3.59
19	22.24	8.39	9.85	13.08	7.00	10	0.50	1/2-20 UNF	2.5	165	178	3.75	4.36
21	24.41	8.39	12.59	16.61	7.00	10	0.50	1/2-20 UNF	2.5	240	262	5.02	6.08
24	27.95	8.39	12.59	16.61	7.00	10	0.50	1/2-20 UNF	2.5	285	306	7.50	8.24
27	30.71	11.02	14.45	20.71	9.50	8	0.75	3/4-16 UNF	3.5	454	505	11.09	13.21
29	33.86	11.02	15.59	21.85	9.50	8	0.75	3/4-16 UNF	3.5	562	613	14.53	16.65
34	39.37	12.52	18.54	24.96	11.00	8	0.75	3/4-16 UNF	4	960	978	21.80	24.44



SELECTION/DIMENSIONS



Fluid Couplings

PART NUMBERS

PX STYLE FLUID CPLG - INCLUDES ELEMENT *

		DELAY FILL	
PART #	PART DESCRIPTION	PART #	PART DESCRIPTION
000423	11KCP X 1-5/8" FLUID CPLG-2517	000454	11CKCP X 1-5/8" FLUID CPLG-2517
000424	11KCP X 1-7/8" FLUID CPLG-2517	000455	11CKCP X 1-7/8" FLUID CPLG-2517
000426	12KCP X 1-5/8" FLUID CPLG-2517	000457	12CKCP X 1-5/8" FLUID CPLG-2517
000427	12KCP X 1-7/8" FLUID CPLG-2517	000458	12CKCP X 1-7/8" FLUID CPLG-2517
000429	13KCP X 1-7/8" FLUID CPLG-2517	000460	13CKCP X 1-7/8" FLUID CPLG-2517
000430	13KCP X 2-1/8" FLUID CPLG-2517	000461	13CKCP X 2-1/8" FLUID CPLG-2517
000431	13KCP X 2-3/8" FLUID CPLG-2517	000462	13CKCP X 2-3/8" FLUID CPLG-2517
000432	15KCP X 2-1/8" FLUID CPLG-3535	000463	15CKCP X 2-1/8" FLUID CPLG-3535
000433	15KCP X 2-3/8" FLUID CPLG-3535	000464	15CKCP X 2-3/8" FLUID CPLG-3535
000434	15KCP X 2-7/8" FLUID CPLG-3535	000465	15CKCP X 2-7/8" FLUID CPLG-3535
000435	17KCP X 2-3/8" FLUID CPLG-3535	000466	17CKCP X 2-3/8" FLUID CPLG-3535
000436	17KCP X 2-7/8" FLUID CPLG-3535	000467	17CKCP X 2-7/8" FLUID CPLG-3535
000437	17KCP X 3-3/8" FLUID CPLG-3535	000468	17CKCP X 3-3/8" FLUID CPLG-3535
000438	19KCP X 2-3/8" FLUID CPLG-3535	000469	19CKCP X 2-3/8" FLUID CPLG-3535
000439	19KCP X 2-7/8" FLUID CPLG-3535	000470	19CKCP X 2-7/8" FLUID CPLG-3535
000440	19KCP X 3-3/8" FLUID CPLG-3535	000471	19CKCP X 3-3/8" FLUID CPLG-3535
000441	21KCP X 2-3/8" FLUID CPLG-4040	000472	21CKCP X 2-3/8" FLUID CPLG-4040
000442	21KCP X 3-3/8" FLUID CPLG-4040	000473	21CKCP X 3-3/8" FLUID CPLG-4040
000443	24KCP X 2-3/8" FLUID CPLG-4040	000474	24CKCP X 2-3/8" FLUID CPLG-4040
000444	24KCP X 3-3/8" FLUID CPLG-4040	000475	24CKCP X 3-3/8" FLUID CPLG-4040
000445	24KCP X 3-7/8" FLUID CPLG-4040	000476	24CKCP X 3-7/8" FLUID CPLG-4040

Mounting of KCP and CKCP may require the motor shaft to be tapped.

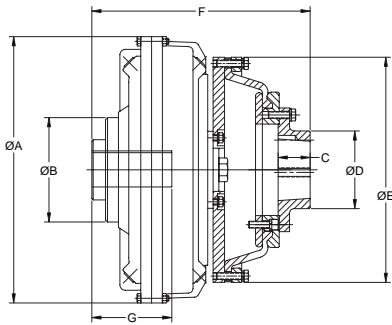
Part #s include mechanism, element and coupling assembly.

* TAPER-LOCK bushing ordered separately.

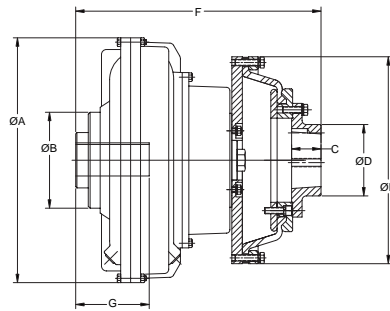
FEATURES/BENEFITS PAGE PT4-2	NOMENCLATURE PAGE PT4-3	SELECTION PAGE PT4-4	
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Fluid Couplings



KCP-CONSTANT FILL



CKCP-DELAY FILL

DIMENSIONAL DATA SHEET – KCP & CKCP

Size	Fluid Coupling Bore	A	B	C	D	E	F		G	V		PH Element	PH Max Bore	TL Bushing	Max	Max
							KCP	CKCP		Torque (in-lb)	RPM					
11	1.625	12.80	5.04	1.75	4.25	10.31	11.76		3.75	1.796	0.375	PH96	2 11/16	2517	2300	3300
	4.38								1.972	0.5						
12	1.625	14.57	5.71	1.75	4.25	12.31	11.71	14.37	3.75	1.796	0.375	PH116	2 11/16	2517	3150	3200
	4.38								1.972	0.5						
13	1.875	15.67	7.06	1.75	4.25	13.81	13.58	15.94	4.38	2.093	0.5	PH131	2 11/16	2517	4700	3000
	2.125								5.00	2.350	0.5					
	2.375															
15	2.125	18.11	8.00	3.50	7.69	18.31	18.36	21.04	5.00	2.350	0.5	PH172	3 15/16	3535	6600	2600
	2.375								7.00	2.992	0.75					
	2.875															
17	2.375	20.47	8.86	3.50	7.69	18.31	19.23	22.38	5.63	2.651	0.625	PH172	3 15/16	3535	9200	2400
	2.875								7.63	3.635	0.875					
	3.375															
19	2.375	22.24	8.86	3.50	7.69	18.31	19.23	22.38	5.63	2.651	0.625	PH172	3 15/16	3535	12900	2200
	2.875								7.00	3.205	0.75					
	3.375															
21	2.375	24.41	9.84	4.00	8.63	20.31	22.79	26.73	7.00	3.205	0.75	PH192	4 7/16	4040	17300	2000
	3.375								8.25	3.635	0.875					
24	2.875	27.95	9.84	4.00	8.63	20.31	22.79	26.73	7.00	3.205	0.75	PH192	4 7/16	4040	24500	1800
	3.375								8.25	3.760	0.875					
	3.875																8.50	4.106	1



NOTES



PT Components Reference Guide

Couplings

Clutches and Brakes

FLEXIDYNE

Fluid Couplings

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TORQUE-TAMER™

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FEATURES/BENEFITS



TORQUE-TAMER®

DODGE TORQUE-TAMER Clutches

Low cost overload protection that's a cinch to adjust.

Intermittent shock loads or drive overload conditions can stress reducers to a point of premature failure. DODGE TORQUE-TAMER clutches provide a simple, economical solution. When an overload occurs, the TORQUE-TAMER clutch is designed to slip, protecting the valuable reducer and other components in the drive train. Once the overload is cleared, the TORQUE-TAMER clutch automatically picks up the load.

A DODGE TORQUE-TAMER clutch is easily set to the required slip-protection torque level, using standard wrenches.

QUALITY FEATURES

- Non-asbestos friction discs
- Long-life bushing

New keyed bushing will not slip on the hub. Provides improved bearing surface for sprocket to ride on during overload slip. NOTE: Because of the possibility of excessive heat build-up, the TORQUE-TAMER clutch is not recommended for continuous slip duty.

EXCLUSIVE "EASY SET" ADJUSTMENT

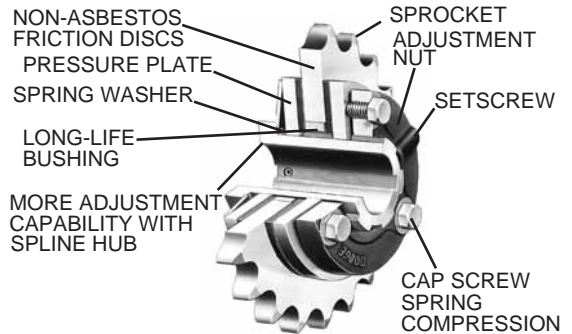
Torque adjustment is a simple matter, accomplished quickly! The need for hammer and block, brute strength and spanner wrenches is eliminated. No sweat. No wasted time.

For maximum torque, tighten the adjusting nut to finger tight and use a small wrench to tighten the three cap screws until the heads bottom out. For less torque, loosen the cap screws and set screws. Then back off the adjusting nut from one to seven spline notches, depending on the torque desired. Then retighten set screw and cap screws. Please consult Instruction Manual 499966 for complete details.

AUTOMATIC RESET

The DODGE TORQUE-TAMER clutch gives machinery permanent protection against overloads during starting, reversing or driving-by slipping at the desired load.

When an overload occurs, the driven member slips between long-life, clutch-type friction discs. After slipping has started, it will continue at approximately 90% of the torque setting, due to the lower coefficient of friction when slipping, until the overload condition has been corrected. It resumes driving without resetting when the overload is relieved.



HIGHER TORQUE RATINGS

Spring design provides higher torque ratings for No. 35 and No. 50 TORQUE-TAMER clutches. This results in more uniform coverage between minimum and maximum torque range of the TORQUE-TAMER clutch.

APPLICATION VERSATILITY

DODGE TORQUE-TAMER clutches may be used with stock or special sprockets, gears, sheaves, flange or other driven members. It is recommended that the rubbing sides of the driven member be ground to provide a smooth rubbing surface of 65 to 125 micro-inches.

Higher torque ratings can be obtained by the use of a second spring nested within the original spring. (See torque rating table on page PT5-4.)

MINIMUM MAINTENANCE

The DODGE TORQUE-TAMER clutch is simple in design, compact, efficient, and built for long life. It provides low cost torque limiting service for a wide variety of applications. No lubrication. . . minimum maintenance.

TORQUE-TAMER clutches are supplied complete with friction discs and one spring. The following are ordered separately:

SPROCKET-Stock sizes shown on page PT5-6. Non-stock sizes can be furnished as reworked A-Plate sprockets listed in the sprocket section of the DODGE Engineering Catalog.

BUSHINGS-Specify size and width and/or part no. as tabulated.

EXTRA SPRING-Provides higher torque rating as tabulated. Second spring is nested into first spring.



SPECIFICATION HOW TO ORDER NOMENCLATURE

TORQUE-TAMER

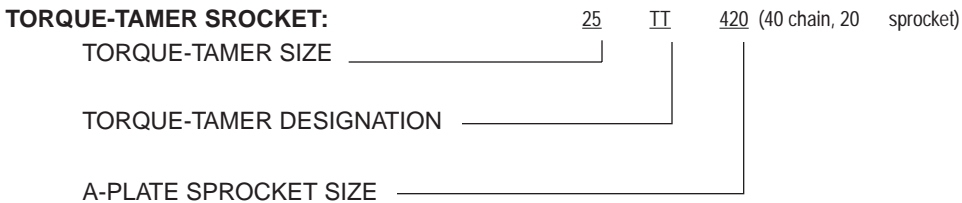
SPECIFICATION

The DODGE TORQUE-TAMER is a protective device that is designed to slip when overloaded, thus protecting the valuable reducer and other components in the drive train. Once the overload is cleared, the TORQUE-TAMER clutch will automatically re-engage. No resetting is required.

HOW TO ORDER

TORQUE-TAMER clutches are ordered by the size of the TORQUE-TAMER, the bore size of the unit, and the sprocket and bushing width required. The DODGE TORQUE-TAMER is supplied with the friction discs and one spring. The sprocket, bushings, and additional spring (if needed) must be ordered separately.

NOMENCLATURE



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

SELECTION/DIMENSIONS



TORQUE-TAMER

SELECTION OF TORQUE-TAMER:

STEP 1: Determine torque at which clutch should limit or slip.

$$T = \frac{\text{HP X 63025}}{\text{RPM}} \times \text{Limit Factor}$$

Limit factor determines point at which TORQUE-TAMER should slip above nominal load.

STEP 2: Refer to Chart 1. Select the TORQUE-TAMER size that falls within the min./max torque range. Verify the max bore for the TORQUE-TAMER is within specification. This chart will also determine the number of springs required and the spline setting for the TORQUE-TAMER.

STEP 3: Refer to Chart 2 to verify the minimum number of sprocket teeth required for the TORQUE-TAMER sprocket. From Chart 2, also determine the bushing width required.

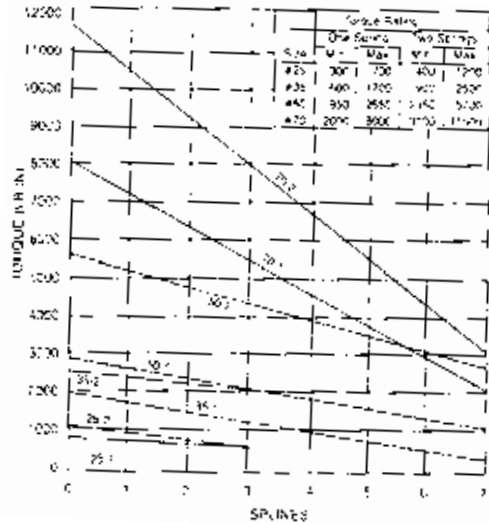
EXAMPLE: 3HP, RPM at TORQUE-TAMER 175, Needs TORQUE-TAMER to limit or slip at 150% of nominal torque.

1. Limit factor is 150%/100%=1.5.

$$T = \frac{3\text{HP X 63025}}{175\text{ RPM}} \times 1.5 = 1,620 \text{ lb-in}$$

2. Select size from Chart 1. Minimum size is #35 TORQUE-TAMER. One spring will be sufficient, however, a second spring can be added for increased torque capability (should parameters of application required additional torque).

Chart 1 - TORQUE-TAMER CLUTCH CLAIBRATION



Note

Graph indicates approximate rated torque vs. number of splines adjusting nut is backed off from finger tight. Numbers on calibration lines indicate TORQUE-TAMER model and quantity of compression springs. Example: 35-2 is a model 35 TORQUE-TAMER with 2 springs.

3. Check Chart 2 for maximum bore and minimum sprocket teeth and bushing requirements.

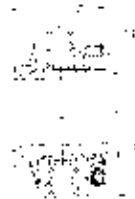
CHART 2 - Minimum Allowable Sprocket Teeth* & Width of Bushing Required & Maximum Bore Capability

TORQUE-TAMER Size	Data:	Chain Size										Max Bore	
		#35 Chain	#41 Chain	#40 Chain	#50 Chain	#60 Chain	#80 Chain	#100 Chain	#120 Chain	#140 Chain	#160 Chain	Std. KW†	Shallow KW†
25	Minimum # Teeth Bush.	25	19 ▲	19 ▲	16 ▲	.....	.....	.....	.....	.....	.....	7/8	1
	Width Req'd	1/8	1/8	1/4	1/4	.....	.....	.....	.....	.....	.....
35	Minimum # Teeth Bush.	34	26	26	21	18	15	.....	.....	.....	.....	1-3/16	1-1/4
	Width Req'd	1/8	1/8	1/4	1/4	3/8	3/8	.....	.....	.....	.....
50	Minimum # Teeth Bush.	48	35	35	30	25	19	17	.....	.....	.....	1-3/16	2
	Width Req'd	1/8	1/8	1/4	1/4	3/8	3/8	1/2***	.....	.....	.....
70	Minimum # Teeth Bush.	.....	.....	48	40	34	26	21	18	16	14	2-3/4	3
	Width Req'd	.....	.....	1/4	1/4	3/8	3/8	1/2	3/4*	3/4*	1**		

- Minimum number of teeth on sprocket which will permit chain to clear friction disc
- ▲ 20 teeth minimum recommended. Minimal clearance of 19 teeth may shorten life

- * Use two 3/8" wide bushings
- ** Use two 1/2" wide bushings
- † Keyway to be cut central with threaded spline
- *** Use two 1/4" wide bushings

TORQUE-TAMER



TORQUE-TAMER Clutch Dimensions									
TORQUE-TAMER Size	Avg. Wt.	A	B	C		K +0.00 -0.02 Splines O D	L +0.03 -0.00 Spkt. Bore	Max. Bore	
				Min.	Max.			Std. Key*	Shallow Key*
25	1	2-1/2	1-3/4	1/8	11/32	1.368	1.628	7/8	1
35	2.5	3-1/2	2-7/16	1/8	5/8	1.675	2.003	1-3/16	1-1/4
50	6	5	2-7/8	1/8	5/8	2.625	3.005	1-3/4	2
70	18	7	3-7/8	1/4	1-1/4	3.811	4.194	2-3/4	3

* Keyway to be cut central with threaded spline.

Stock TORQUE-TAMER Clutches: Finished Bores & Reborable

Stock TORQUE-TAMER Clutches
w/Finished Bore & Keyway

Reborable TORQUE-TAMER Clutches

TORQUE-TAMER Size	Finished Bore		Reborable			
	Bore	Part Number	Bore (No KW & 1 ▲)	Part Number	Max Bore	
					Standard KW*	Shallow KW*
25	1/2	096034	1/2	096033	7/8	1
	5/8	096035				
	3/4	096036				
	7/8	096037				
35	3/4	096008	3/4	096010	1-3/16	1-1/4
	7/8	096009				
	1	096011				
50	1	096014	1	096017	1-3/4	2
	1-1/8	096015				
	1-3/16	096018				
	1-1/4	096019				
	1-3/8	096020				
	1-7/16	096021				
	1-1/2	096022				
1-5/8	096023					
70	1-7/16	096028	1-3/8	096027	2-3/4	3
	1-1/2	096029				
	1-3/4	096030				
	1-15/16	096031				
	2	096032				
	2-3/16	096038				
2-7/16	096016					

▲ With standard Keyway and (1) Setscrew.

* Keyway to be cut central with threaded spline

SELECTION/DIMENSIONS



TORQUE-TAMER

TORQUE-TAMER Sprocket



Stock TORQUE-TAMER sprockets are bored to fit TORQUE-TAMER clutches. Sprocket faces are machined smooth and parallel to provide proper interface with friction discs.

Standard A-Plate sprockets can also be reworked for use with TORQUE-TAMER clutches. Refer to DODGE List price Book for modifications charges

Stock TORQUE-TAMER Sprockets Bored and Micro Ground

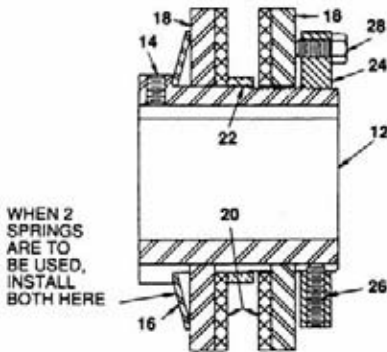
#25 TORQUE-TAMER					#35 TORQUE-TAMER				
Chain Size	No. Teeth	Descrip.	Part No	Bushing Part No *	Chain Size	No. Teeth	Descrip.	Part No	Bushing Part No *
40	19	25TT419	096135	096051	40	26	35TT426	096150	096056
40	20	25TT420	096136	096051	50	21	35TT521	096151	096056
40	21	25TT421	096137	096051	50	22	35TT522	096152	096056
40	23	25TT423	096138	096051	50	23	35TT523	096153	096056
50	16	25TT516	096139	096051	50	25	35TT525	096154	096056
50	17	25TT517	096140	096051	60	18	35TT618	096155	096057
50	18	25TT518	096141	096051	60	19	35TT619	096156	096057
50	19	25TT519	096142	096051	60	20	35TT620	096157	096057
50	21	25TT521	096143	096051	60	21	35TT621	096158	096057
50	23	25TT523	096144	096051	60	23	35TT623	096159	096057
#50 TORQUE-TAMER					#70 TORQUE-TAMER				
Chain Size	No. Teeth	Descrip.	Part No	Bushing Part No *	Chain Size	No. Teeth	Descrip.	Part No	Bushing Part No *
50	30	50TT530	096165	096063	60	35	70TT635	096175	096071
60	25	50TT625	096166	096064	80	26	70TT826	096176	096071
60	26	50TT626	096167	096064	80	27	70TT827	096177	096071
80	19	50TT819	096168	096064	100	21	70TT1021	096178	096072
80	20	50TT820	096169	096064	100	22	70TT1022	096179	096072
80	21	50TT821	096170	096064					
80	23	50TT823	096171	096064					

* BUSHING ORDERED SEPARATELY

TORQUE-TAMER Clutch Extra Items

TORQUE-TAMER SIZE	Part Number for Bushing Width of:				Part Number for Extra Spring
	1/8"	1/4"	3/8"	1/2"	
25	096050	096051	.....	.....	096039
35	096055	096056	096057	.....	096041
50	096062	096063	096064	.....	096042
70	.....	096070	096071	096072	096043
Reference#	22				16

TORQUE-TAMER Replacement Parts



Reference#	No. Req'd	Name of Part	Part Numbers			
			Size 25	Size 35	Size 50	Size 70
12	1	Hub Assembly	N/A	N/A	N/A	N/A
14	1	Hub Set Screw	N/A	N/A	N/A	N/A
18	2	Pressure Plate	391371	391375	391379	391383
20	1	• Friction Discs	096065	096066	096067	096068
24	1	Adjusting Nut Assembly	391372	391376	391380	391384
26	1	▲ Adjusting Nut Set Screws	.....	.....	.....	.....
28	3	▲ Tension Screw	391373	391377	391381	391385

• Sold in packs of 2 only

▲ Included in preceding assembly

FEATURES/BENEFITS PAGE PT5-2	SPECIFICATION/HOW TO ORDER PAGE PT5-3		
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Bushings and Hubs

TAPER-LOCK® Bushings

Features/Benefits PT6-2

Specification:

- Dimensions PT6-3
- Stock Bore PT6-5
- Reborables PT6-10
- Nomenclature PT6-10
- Metric Bores PT6-11

Related Products:

- TAPER-LOCK Hubs PT6-11
- TAPER-LOCK Adapters PT6-14

QD Bushings

Features/Benefits PT6-15

Specification:

- Dimensions PT6-16
- Stock Bore PT6-17
- Metric Bores PT6-22
- Reborables PT6-23

Related Products:

- QD Hubs PT6-25

GRIP TIGHT™ Bushing

Features/Benefits PT6-27

Specification:

- Dimensions PT6-28

Part Number Index INDEX-1

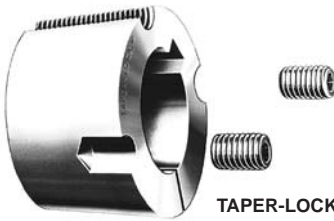
Keyword Index INDEX-29



FEATURES/BENEFITS



TAPER-LOCK Bushings



TAPER-LOCK Keyway-type Bushings

TAPER-LOCK Integral Key Bushing



- Clean, Compact Design
- An Industry Standard for over 40 years
- Easy-on, Easy-off
- 8° Taper-Grips Tight, Holds Tight, Runs True, No Wobble
- Total System Concept: Bushings, Hubs, Adapters and Products
- World-Wide Acceptance and Availability
- Flush Mounting-No Protruding Parts
- Diamond **D**® Integral Key for Added Value and Convenience

Simple Mounting



Easy On

- Insert bushing into sprocket
- Match holes (not threads).
- Put screws into holes that are farthest apart
- Slip entire unit onto shaft
- Set drive alignment and tighten screws

Easy Off

- Take both screws out entirely
- Insert one screw into hole that is threaded in the bushing only
- Use as jackscrew to disengage bushing



IMPORTANT!

Do not use lubricants or anti-seize compounds on tapered bore, bushing suitcase, shaft or screws. For complete installation instructions, refer to the sheet packaged with each bushing.

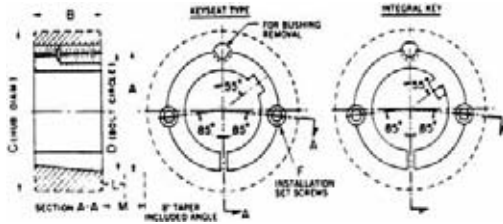
DODGE TAPER-LOCK BUSHING WITH INTEGRAL KEY

- Popular bore sizes, 1008 thru 2517
- Capitalizes on proven DODGE sintered steel technology
- **Convenience:** No more fumbling with a separate key and setscrew over the key. Integral key cannot work loose or fall out.
- **More Secure fit:** Clearances between key and bushing are automatically eliminated, providing a more precise fit. Provides full key even in maximum bore sizes. . . No more "shallow keyseat" compromise.
- **Cost Reduction:** Eliminates labor cost associated with installing key and separate key, and associated inventory expense.
- **Engineered and Tested Design:** Integral key concept thoroughly analyzed, using state-of-the-art engineering tools, including computerized Finite Element Analysis (FEA), for stress evaluation. Extensive laboratory testing included static and dynamic loading on customized machinery. Results demonstrated in successful field applications.



TAPER-LOCK Bushings - Dimensions

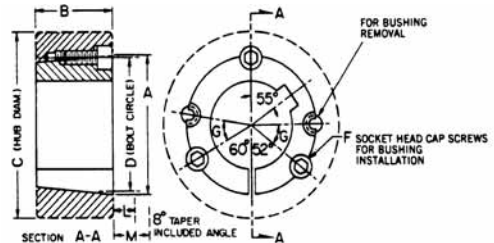
1008 thru 3030 sizes



DIMENSIONS FOR 1008 THRU 3030 TAPER-LOCK BUSHINGS

Bush No.	RATINGS (Lb-in)		A	B	C Hub Dia. ■		D	F †		L ●		M ★	
	Torque Capacity u	Wrench Torque Install Screws			CL 30 Iron	Steel		Qty.	Size	Std. Hex Key	Short Keys	Std. Hex Key	Short Keys
1008	1200	55	1.386	.87	2.19	1.94	1-21/64	2	1/4 x 1/2	1.13	.63	1.25	.75
1108	1300	55	1.511	.87	2.31	2.06	1-29/64	2	1/4 x 1/2	1.13	.63	1.25	.75
1210	3600	175	1.87	1.00	3.25	2.88	1-3/4	2	3/8 x 5/8	1.38	.81	1.63	1.1
1215	3550	175	1.87	1.50	2.88	2.63	1-3/4	2	3/8 x 5/8	1.38	.81	1.63	1.1
1310	3850	175	2.0	1.00	3.38	3.00	1-7/8	2	3/8 x 5/8	1.38	.81	1.63	1.1
1610	4300	175	2.25	1.00	3.63	3.25	2-1/8	2	3/8 x 5/8	1.38	.81	1.63	1.1
1615	4300	175	2.25	1.50	3.25	3.00	2-1/8	2	3/8 x 5/8	1.38	.81	1.63	1.1
2012	7150	280	2.75	1.25	4.38	3.88	2-5/8	2	7/16 x 7/8	1.56	.94	2.00	1.38
2517	11600	430	3.38	1.75	4.88	4.38	3-1/4	2	1/2 x 1	1.63	1.00	2.25	1.63
2525	11300	430	3.38	2.50	4.50	4.25	3-1/4	2	1/2 x 1	1.63	1.00	2.25	1.63
3020	24000	800	4.25	2.00	6.25	5.63	4	2	5/8 x 1-1/4	1.81	1.19	2.69	2.1
3030	24000	800	4.25	3.00	5.75	5.38	4	2	5/8 x 1-1/4	1.81	1.19	2.69	2.1

3535 thru 5050 Size



DIMENSIONS FOR 3535 THRU 5050 TAPER-LOCK BUSHINGS

Bush No.	RATINGS (Lb-in)		A	B	C Hub Dia. ■		D	F †		G	L ●		M ★	
	Torque Capacity u	Wrench Torque Install. Screws			CL 30 Iron	Steel		Qty.	Size		Std. Hex Key	Short Keys	Std. Hex Key	Short Keys
3535	44,800	1,000	5.00	3.50	7.00	6.5	4.83	3	1/2 x 1-1/2	39	2.00	1.31	3.38	2.69
4040	77,300	1,700	5.75	4.00	8.50	7.75	5.54	3	5/8 x 1-3/4	40	2.38	1.63	4.13	3.38
4545	110,000	2,450	6.38	4.50	9.50	8.75	6.13	3	3/4 x 2	40	2.63	1.94	4.75	4.10
5050	126,000	3,100	7.00	5.00	10.50	9.50	6.72	3	7/8 x 2-1/4	37	2.81	2.31	5.25	4.81

- Note:** For dimensions required for machining hubs, consult factory.
- Hub diameter required depends on the application. Hub diameter shown is based on 30,000 P.S.I. minimum ultimate tensile strength.
 - ◆ Important: refer to service factor information on page PT6-4.
 - Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

- ★ Space required to remove bushing using jackscrews- no puller required
- ▲ Standard hex key cut to minimum usable length.
- † Use in position shown in drawing above for tightening bushing on shaft. When loosening bushing remove screws and use all except one in the other holes.

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TAPER-LOCK Bushings - Stock Bore

TL Bush Size	BORE	P/N Integral Key	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
1008	1/2"		119176	0.3	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	9/16"		119177	0.3			
	5/8"		117073	0.3			
	11/16"		119179	0.2			
	3/4"	119180	117150	0.2	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119181	0.2			
	7/8"	119182	117074	0.2			
	15/16" #		119183	0.2			
	1" #	119184	117151	0.2	1/4 x 1/16	1/4 x 1/8	1/4 x 3/16 Δ
	14MM		119565	0.3	5 x 2.3MM	5 x 3.0MM	5 x 5MM
	16MM		119566	0.3			
	18MM		119575	0.3			
19MM		119569	0.3	6 x 2.8MM	6 x 3.5MM	6 x 6MM	
20MM		119576	0.3				
22MM		119577	0.2				
24MM		119567	0.2	8 x 3.3MM	8 x 4MM	8 x 7	
1108	1/2"		119365	0.3	1/8 x 1/4	1/8 x 1/4	1/8 x 1/8
	9/16"		119366	0.3			
	5/8"	119367	117075	0.3			
	11/16"		119368	0.2			
	3/4"		117152	0.2	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119370	0.2			
	7/8"	119371	117076	0.2			
	15/16"		119372	0.2			
	1		117153	0.2	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/16" #		119374	0.2	1/4 x 1/16	1/4 x 1/8	1/4 x 3/16 Δ
	1-1/8" #		117077	0.1			
	14MM		119651	0.3	5 x 2.3MM	5 x 3.0MM	5 x 5MM
16MM		119652	0.3				
18MM		119653	0.3				
19MM		119570	0.3	6 x 2.8MM	6 x 3.5MM	6 x 6MM	
20MM		119579	0.3				
22MM		119580	0.3				
24MM		119581	0.2	8 X 3.3MM	8 X 4MM	8 X 7MM	
25MM		119582	0.2				
1210	1/2"		119191	0.6	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	9/16"		119192	0.6			
	5/8"		117078	0.6			
	11/16"		119194	0.5			
	3/4"	119195	117154	0.5	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119196	0.5			
	7/8"	119197	117079	0.5			
	15/16"		119198	0.5			
	1"	119199	117155	0.5			
	1-1/16"		119200	0.4			
	1-1/8"	119201	117080	0.4	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-3/16"		117156	0.4			
1-1/4"		117157	0.4				
14MM		119583	0.6	5 x 2.3MM	5 x 3.0MM	5 x 5MM	
16MM		119654	0.6				
18MM		119584	0.5				
19MM		119571	0.5	6 x 2.8MM	6 x 3.5MM	6 x 6MM	
20MM		119585	0.5				
22MM		119655	0.5				

TL Bush Size	BORE	P/N Integral Key	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
1210 (cont)	24MM		119586	0.5			
	25MM		119587	0.4	8 X 3.3MM	8 X 4MM	8 X 7MM
	28MM		119588	0.4			
	30MM		119589	0.4	8 X 3.3MM	8 X 4MM	8 x 7
1215	1/2"		119001	0.9	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	9/16"		119002	0.9			
	5/8"		119003	0.8			
	11/16"		119004	0.8			
	3/4"		119005	0.8	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119006	0.8			
	7/8"		119007	0.8			
	15/16"		119008	0.8			
	1"		119009	0.7			
	1-1/16"		119010	0.6	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/8"		119011	0.6			
	1-3/16"		119012	0.5			
1-1/4"		119013	0.5				
1310	1/2"		119390	0.7	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	9/16"		119391	0.7			
	5/8"		119392	0.7			
	11/16"		119393	0.7			
	3/4"		119394	0.7	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119395	0.7			
	7/8"		119396	0.7			
	15/16"		119397	0.6			
	1"		119398	0.6			
	1-1/16"		119399	0.6	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/8"		119400	0.6			
	1-3/16"		119401	0.6			
1-1/4"		119402	0.6				
1-5/16" #		119403	0.6	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16	
1-3/8" #		119404	0.6				
1-7/16" +		119438	0.6	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16 Δ	
14MM		119656	0.7	5 x 2.3MM	5 x 3.0MM	5 x 5MM	
16MM		119657	0.7				
18MM		119658	0.7				
19MM		119572	0.7	6 x 2.8MM	6 x 3.5MM	6 x 6MM	
20MM		119659	0.6				
22MM		119660	0.6				
24MM		119591	0.6				
25MM		119592	0.5	8 X 3.3MM	8 X 4MM	8 X 7MM	
28MM		119593	0.5				
30MM		119594	0.5				
32MM		119595	0.4	10 X 3.3MM	10 X 5MM	10 X 8MM	
35MM		119596	0.4				
1610	1/2"		119211	0.9	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
	9/16"		119212	0.9			
	5/8"		117081	0.9			
	11/16"		119214	0.9			
	3/4"	119215	117158	0.9	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	13/16"		119216	0.9			
	7/8"	119217	117082	0.8			
	15/16"		117083	0.8			
	1"	119219	117159	0.8			
	1-1/16"		119220	0.8	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/8"	119221	117084	0.7			
	1-3/16"		117160	0.7			
1-1/4"	119223	117161	0.7				

Δ Key furnished for these sizes only.

+ These sizes are steel.

Refer to torque capacity rating on page PT6-3. If Service Factor of 2.0 or greater is required, consult DODGE.

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SPECIFICATION



TAPER-LOCK Bushings - Stock Bore

TL Bush Size	BORE	P/N Integral Key	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF			
1610 (cont)	1-5/16"	119225	119224	0.6	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16			
	1-3/8"		117085	0.6						
	1-7/16"		117162	0.6						
	1-1/2"	119227	117163	0.5	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8			
	1-9/16" #	119229	119228	0.5	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16 Δ			
	1-5/8" #		117086	0.5						
	1-11/16"+		117071	0.5						
	14MM	119661	119661	0.9	5 x 2.3MM	5 x 3.0MM	5 x 5MM			
	16MM		119662	0.9						
	18MM		119663	0.9						
	19MM		119573	0.8						
	20MM		119598	0.8						
	22MM		119236	0.8						
	24MM		119599	0.8						
25MM	119600		0.7							
28MM	119601		0.7							
30MM	119602		0.7							
32MM	119603	119603	0.6	6 x 2.8MM	6 x 3.5MM	6 x 6MM				
35MM		119604	0.6							
38MM		119605	0.5							
40MM		119606	0.5							
12 X 3.3MM		119607	0.6							
10 X 3.3MM		119608	0.7							
8 X 3.3MM		119609	0.7							
8 X 4MM		119610	0.7							
8 X 7MM	119611	0.7								
1615	1/2"	119040	119040	1.3	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8			
	9/16"		119041	1.3						
	5/8"	119042	119042	1.3	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16			
	11/16"		119043	1.2						
	3/4"		119044	1.2						
	13/16"		119045	1.2						
	7/8"	119046	1.1							
	15/16"	119047	119047	1.1	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4			
	1"		119048	1.1						
	1-1/16"	119049	119049	1.0	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4			
	1-1/8"		119050	1.0						
	1-3/16"		119051	1.0						
	1-1/4"		119052	0.9						
	1-5/16"	119053	119053	0.8	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16			
1-3/8"	119054		0.8							
1-7/16"	119055		0.7							
1-1/2"	119056		0.7							
1-9/16" #	119057		0.7							
1-5/8" #	119058		0.6							
1-11/16"+	119068		0.6							
1/2"	119241		119241	1.7				1/8 x 1/16	1/8 x 1/16	1/8 x 1/8
9/16"			119242	1.7						
5/8"			117087	1.7						
11/16"			119244	1.7						
3/4"			117088	1.7						
13/16"			119246	1.7						
7/8"			117089	1.6						
15/16"	119249	119248	1.6	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4				
1"		117164	1.6							
1-1/16"		119250	1.6							
1-1/8"		117090	1.5							
1-3/16"		117165	1.5							
1-1/4"		119253	1.4							

Δ Key furnished for these sizes only.

+ These sizes are steel.

Refer to torque capacity rating on page PT6-3. If Service Factor of 2.0 or greater is required, consult DODGE.

TL Bush Size	BORE	P/N Integral Key	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF			
2012 (cont)	1-5/16"	119254	119254	1.3	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16			
	1-3/8"		117091	1.2						
	1-7/16"	119256	117167	1.2	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8			
	1-1/2"		117168	1.2						
	1-9/16"		119258	1.2						
	1-5/8"	117092	1.2							
	1-11/16"	117093	1.1							
	1-3/4"	117094	1.0							
	1-13/16"	119262	119262	1.0	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2			
	1-7/8"		117095	0.9						
	1-15/16" #	117169	117169	0.9	1/2 x 3/16	1/2 x 1/4	1/2 x 7/16 Δ			
	2"		117170	0.9						
	2-1/8" +		117177	0.9						
	14MM	119664	119664	1.7	5 x 2.3MM	5 x 3.0MM	5 x 5MM			
16MM	119665		1.7							
18MM	119666	119666	1.6	6 x 2.8MM	6 x 3.5MM	6 x 6MM				
19MM		119574	1.6							
20MM		119607	1.6							
22MM		119667	1.6							
24MM	119608	119608	1.5	8 X 3.3MM	8 X 4MM	8 X 7MM				
25MM		119609	1.5							
28MM	119610	119610	1.5	8 X 3.3MM	8 X 4MM	8 X 7MM				
30MM		119611	1.4							
32MM		119612	1.4							
35MM	119613	119613	1.3	10 X 3.3MM	10 X 5MM	10 X 8MM				
38MM		119614	1.3							
40MM	119615	119615	1.2	12 X 3.3MM	12 X 5MM	12 X 8MM				
42MM		119616	1.1							
45MM	119617	119617	1.0	14 X 3.8MM	14 X 5.5MM	14 X 9MM				
48MM		119668	0.9							
1/2"	119100	119100	3.7	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8				
5/8"		119102	3.6							
11/16"		119103	3.5							
3/4"		119104	3.4							
13/16"		119105	3.4							
7/8"		119106	3.3							
15/16"		119107	3.3							
1"	119108	3.3								
1-1/16"	119109	119109	3.2	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4				
1-1/8"		119110	3.2							
1-3/16"		119111	3.2							
1-1/4"		119112	3.2							
1-5/16"	119113	119113	3.1	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16				
1-3/8"		119114	3.1							
1-7/16"	119115	119115	3.0	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8				
1-1/2"		119116	2.9							
1-9/16"		119117	2.9							
1-5/8"		119118	2.8							
1-11/16"		119119	2.8							
1-3/4"		119120	2.7							
1-13/16"		119121	119121				2.6	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
1-7/8"			119122				2.5			
1-15/16"		119123	117173				2.4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
2"			117174				2.3			
2-1/16"	119125		2.3							
2-1/8"	117096		2.2							
2-3/16"	117175		2.1							
2-1/4"	117097		2.0							

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TAPER-LOCK Bushings - Stock Bore

TL Bush Size	BORE	P/N Integral Key	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
2517 (cont)	2-5/16"	119129	119129	1.9	5/8 x 3/16	5/8 x 5/16	5/8 x 1/2 Δ
	2-3/8"		117098	1.9			
	2-7/16" #		117176	1.8			
	2-1/2" #		117099	1.8			
	2-5/8" +		117111	1.8			
	2-11/16"+		117115	1.8			
	14MM	119669	119669	3.6	5 x 2.3MM	5 x 3.0MM	5 x 5MM
	16MM		119670	3.6			
	18MM		119671	3.5			
	19MM		119672	3.4			
	20MM		119618	3.4			
	22MM	119619	3.3				
	24MM	119620	119620	3.3	8 X 3.3MM	8 X 4MM	8 X 7MM
	25MM		119621	3.2			
	28MM		119622	3.1			
30MM	119623		3.1				
32MM	119624	119624	3	10 X 3.3MM	10 X 5MM	10 X 8MM	
35MM		119625	2.9				
38MM		119626	2.9				
40MM	119627	119627	2.8	12 X 3.3MM	12 X 5MM	12 X 8MM	
42MM		119628	2.6				
45MM	119629	119629	2.5	14 X 3.8MM	14 X 5.5MM	14 X 9MM	
48MM		119630	2.4				
50MM		119640	2.3				
55MM	119641	119641	2.0	16 X 4.3MM	16 X 6MM	16 X 10MM	
60MM		119642	1.7				
65MM		119643	1.4				

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
3020	7/8	117103	6.5	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	15/16	117101	6.5	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1	117102	6.5			
	1-1/8	117104	6.4			
	1-3/16	117105	6.4			
	1-1/4	117106	6.3	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-5/16	117107	6.1			
	1-3/8	117108	6.0			
	1-7/16	117109	6.0			
	1-1/2	117110	5.9	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-9/16	117135	5.9			
	1-5/8	117112	5.9			
	1-11/16	117113	5.7			
	1-3/4	117114	5.6	1-13/16	1-13/16	1-13/16
	1-13/16	117136	5.5			
	1-7/8	117116	5.4			
	1-15/16	117117	5.3			
	2	117118	5.2	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	2-1/16	117119	5.0			
	2-1/8	117120	5.0			
	2-3/16	117121	4.9			
	2-1/4	117122	4.8	2-5/16	2-5/16	2-5/16
	2-5/16	117137	4.6			
	2-3/8	117124	4.5			
	2-7/16	117125	4.4			
	2-1/2	117126	4.3	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-5/8	117128	4.0			
	2-11/16	117129	3.9			
	2-3/4	117130	3.7			
	2-13/16	117139	3.7	3/4 x 1/8	3/4 x 3/8	3/4 x 1/2 Δ
2-7/8	117132	3.6				
2-15/16"#	117133	3.6	3/4 x 1/4	3/4 x 3/8	3/4 x 5/8 Δ	
3" #	117134	3.4				
3-1/8" +	117178	3.3	8 X 3.3MM	8 X 4MM	8 X 7MM	
3-3/16" +	117179	3.3				
3-1/4" +	117180	3.3				
24MM	119673	6.5	10 X 3.3MM	10 X 5MM	10 X 8MM	
25MM	119674	6.5				
28MM	119675	6.4				
30MM	119676	6.4				
32MM	119677	6.3	12 X 3.3MM	12 X 5MM	12 X 8MM	
35MM	119678	6.0				
38MM	119679	5.9				
40MM	119680	5.9				
42MM	119681	5.8	14 X 3.8MM	14 X 5.5MM	14 X 9MM	
45MM	119682	5.6				
48MM	119644	5.5				
50MM	119645	5.2				
55MM	119646	5.0	16 X 4.3MM	16 X 6MM	16 X 10MM	
60MM	119647	4.9				
65MM	119648	4.3				
70MM	119649	3.7				
75MM	119650	3.5	20 X 4.9MM	20 X 7.5MM	20 X 12MM	

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
2525	3/4	119304	4.9	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	7/8	119306	4.8			
	15/16	119307	4.8	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1	119308	4.8			
	1-1/8	119310	4.6			
	1-3/16	119311	4.5			
	1-1/4	119312	4.4	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-3/8	119314	4.2			
	1-7/16	119315	4.2			
	1-1/2	119316	4.0			
	1-5/8	119318	3.8	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-11/16	119319	3.8			
	1-3/4	119320	3.7			
	1-13/16	119321	3.2			
	1-7/8	119322	3.4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	1-15/16	119323	3.2			
	2	119324	3.1			
	2-1/8	119326	2.9			
	2-3/16	119327	2.5	5/8 x 3/16	5/8 x 5/16	5/8 x 1/2 Δ
	2-1/4	119328	2.3			
	2-5/16	119329	2.0			
	2-3/8	119330	2.0			
	2-7/16	119331	2.0			
	2-1/2	119332	2.0			

Δ Key furnished for these sizes only.

+ These sizes are steel.

Refer to torque capacity rating on page PT6-3. If Service Factor of 2.0 or greater is required, consult DODGE.

TL STOCK SIZES PAGE PT6-5	OD METRIC BORES PAGE PT6-22	OD HUBS PAGE PT6-25	T-L HUBS PAGE PT6-12
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SPECIFICATION



TAPER-LOCK Bushings - Stock Bore

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF		
3030	15/16	117004	10.0	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4		
	1	117005	9.4					
	1-1/8	117007	9.4					
	1-3/16	117008	9.2	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16		
	1-1/4	117009	9.0					
	1-5/16	117010	8.9					
	1-3/8	117011	8.8	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8		
	1-7/16	117012	8.6					
	1-1/2	117013	8.5					
	1-9/16	117014	8.4					
	1-5/8	117015	8.2					
	1-11/16	117016	8.0					
	1-3/4	117017	7.8	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2		
	1-13/16	117018	7.6					
	1-7/8	117019	7.5					
	1-15/16	117020	7.4					
	2	117021	7.3					
	2-1/16	117022	7.2					
	2-1/8	117023	7.1	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8		
	2-3/16	117024	6.9					
	2-1/4	117025	6.7					
	2-5/16	117026	6.6					
	2-3/8	117027	6.4					
	2-7/16	117028	6.2					
	2-1/2	117029	6.1	3/4 x 1/8	3/4 x 3/8	3/4 x 1/2 Δ		
	2-5/8	117031	6.0					
	2-11/16	117032	5.9					
	2-3/4	117033	5.6					
	2-7/8	117035	5.3					
	2-15/16#	117036	5.0					
3"	117037	4.9	3/4 x 1/4	3/4 x 3/8	3/4 x 5/8 Δ			
3-1/8"	117181	4.7						
3-3/16"	117182	4.7						
3-1/4"	117183	4.7	8 X 3.3MM	8 X 4MM	8 X 7MM			
28MM	119808	9.4						
32MM	119809	9.0						
38MM	119810	8.4	14 X 3.8MM	14 X 5.5MM	14 X 9MM			
48MM	119811	7.6						
55MM	119812	6.9						
60MM	119813	6.4	16 X 4.3MM	16 X 6MM	16 X 10MM			
1-3/16	117207	15.2				1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1-1/4	117208	14.9						
1-3/8	117209	14.8						
1-7/16	117210	14.6	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16			
1-1/2	117211	14.4						
1-5/8	117212	14.1						
1-11/16	117213	14.0	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8			
1-3/4	117214	14.0						
1-7/8	117215	13.6						
1-15/16	117216	13.4	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2			
2	117217	13.1						
2-1/16	117218	12.8						
2-1/8	117219	12.6	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2			
2-3/16	117220	12.4						
2-1/4	117237	12.2						

Δ Key furnished for these sizes only.

+ These sizes are steel.

Refer to torque capacity rating on page PT6-3. If Service Factor of 2.0 or greater is required, consult DODGE.

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
3535 (cont)	2-5/16	117221	12.0	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-3/8	117222	11.7			
	2-7/16	117223	11.7			
	2-1/2	117224	11.0	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	2-5/8	117225	10.9			
	2-11/16	117226	10.7			
	2-3/4	117227	10.0	7/8 x 1/8	7/8 x 7/16	7/8 x 9/16 Δ
	2-7/8	117228	9.8			
	2-15/16	117229	9.7			
	3	117230	9.2	7/8 x 3/16	7/8 x 7/16	7/8 x 5/8 Δ
	3-1/8	117231	9.2			
	3-3/16	117232	8.8			
	3-1/4	117236	8.7	7/8 x 1/4	7/8 x 7/16	7/8 x 11/16 Δ
	3-5/16	117236	8.6			
	3-3/8	117233	8.7			
	3-7/16	117234	8.3	1 x 1/4	1 x 1/2	1 x 3/4 Δ
	3-1/2	117235	8.0			
	3-5/8"	117707	7.1			
	3-11/16"#	117708	6.8	10 X 3.3MM	10 X 5MM	10 X 8MM
	3-3/4"	117709	6.4			
	3-7/8"	117710	6.0			
	3-15/16"#	117703	5.6	14 X 3.8MM	14 X 5.5MM	14 X 9MM
	32MM	119814	14.6			
	38MM	119815	14.0			
	48MM	119816	13.2	16 X 4.3MM	16 X 6MM	16 X 10MM
	55MM	119817	11.1			
	60MM	119683	11.1			
	80MM	117297	10.0	18 X 4.4MM	18 X 7MM	18 X 11MM
	90MM	426013	10.0			
	25 X 5.4MM					
25 X 9MM						
25 X 14MM						
4040	1-7/16	117310	24.0	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-1/2	117311	22.0			
	1-5/8	117312	22.0			
	1-11/16	117313	21.9	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	1-3/4	117314	21.9			
	1-7/8	117315	21.0			
	1-15/16	117316	21.2	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2	117317	21.1			
	2-1/8	117318	20.6			
	2-3/16	117319	20.3	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	2-1/4	117320	20.2			
	2-3/8	117321	19.6			
	2-7/16	117322	19.3	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	2-1/2	117323	18.8			
	2-5/8	117324	18.7			
	2-11/16	117325	18.3	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	2-3/4	117326	18.2			
	2-7/8	117327	17.5			
	2-15/16	117328	17.2	7/8 x 3/16	7/8 x 7/16	7/8 x 5/8 Δ
	3	117329	16.8			
	3-1/8	117330	16.2			
	3-3/16	117331	15.8	14 X 3.8MM	14 X 5.5MM	14 X 9MM
	3-1/4	117332	15.5			
	3-3/8	117333	14.8			
	3-7/16	117334	14.4	16 X 4.3MM	16 X 6MM	16 X 10MM
	3-1/2	117335	14.0			
	3-5/8	117337	13.5			
	3-11/16	117340	13.5	7/8 x 3/16	7/8 x 7/16	7/8 x 5/8 Δ
	3-3/4	117336	13.5			

TL STOCK SIZES PAGE PT6-5	OD METRIC BORES PAGE PT6-22	OD HUBS PAGE PT6-25	T-L HUBS PAGE PT6-12
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TAPER-LOCK Bushings - Stock Bore

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF			
4040 (cont)	3-7/8	117341	12.9	1 x 1/4	1 x 1/2	1 x 3/4 Δ			
	3-15/16	117338	12.5						
	4	117352	12.0						
	4-1/8" #	117714	11.2						
	4-3/16" #	117715	10.7						
	4-1/4" #	117716	10.3						
	4-3/8" #	117717	9.5						
	4-7/16" #	117704	8.9						
	48MM	119818	21.0				14 X 3.8MM	14 X 5.5MM	14 X 9MM
	55MM	119819	20.4				16 X 4.3MM	16 X 6MM	16 X 10MM
60MM	119820	19.5	18 X 4.4MM	18 X 7MM	18 X 11MM				
4545	1-15/16	117416	29.9	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2			
	2	117417	29.8						
	2-3/16	117419	29.0						
	2-3/8	117421	28.2	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8			
	2-7/16	117422	27.9						
	2-5/8	117424	27.0						
	2-3/4	117426	26.5						
	2-7/8	117427	25.7						
	2-15/16	117428	25.3	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4			
	3	117429	25.2						
	3-1/8	117430	24.3						
	3-3/16	117431	24.2						
	3-1/4	117432	23.9						
	3-3/8	117433	22.8	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8			
	3-7/16	117434	22.6						
	3-1/2	117435	22.1						
	3-5/8	117413	21.2						
	3-3/4	117436	20.3						
	3-7/8	117437	19.5	1 x 1/2	1 x 1/2	1 x 1			
	3-15/16	117438	19.0						
4	117439	18.6							
4-1/8	117444	17.5							
4-3/16	117443	17.1							
4-1/4	117441	17.0	1 x 1/4	1 x 1/2	1 x 3/4 Δ				
4-3/8	117442	16.9							
4-7/16	117440	16.5							
4-1/2	117447	15.9							
4-3/4" #	117718	13.9				1-1/4 x 1/4	1-1/4 x 5/8	1-1/4 x 7/8 Δ	
4-7/8" #	117719	12.9							
4-15/16" #	117705	12.5							

Δ Key furnished for these sizes only.

+ These sizes are steel.

Refer to torque capacity rating on page PT6-3. If Service Factor of 2.0 or greater is required, consult DODGE.

TL Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF			
5050	2-7/16	117458	39.0	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8			
	2-11/16	117450	37.4						
	2-15/16	117459	36.0				3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3-3/8	117452	33.0				7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	3-7/16	117460	32.6						
	3-5/8	117453	31.2						
	3-7/8	117454	29.3				1 x 1/2	1 x 1/2	1 x 1
	3-15/16	117461	28.6						
	4	117466	28.3						
	4-1/4	117465	26.2						
4-3/8	117469	25.0							
4-7/16	117462	24.4	1-1/4 x 1/4	1-1/4 x 5/8	1-1/4 x 7/8 Δ				
4-1/2	117467	23.9							
4-7/8	117468	22.3							
4-15/16	117463	21.4	1 x 1/2	1 x 1/2	1 x 1				
5	117464	20.9							
4-7/16	117474	63.6				1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4	
4-15/16	117473	58.2	1-1/2 x 3/4	1-1/2 x 3/4	1-1/2 x 1-1/2				
5-7/16	117475	52.3							
5-15/16	117476	57.2							
6	117477	46.4	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4				
4-15/16	117490	92.0							
5-7/16	117491	84.5							
5-15/16	117492	78.2							
6	117493	76.6							
6-7/16	117494	68.1	1-1/2 x 3/4	1-1/2 x 3/4	1-1/2 x 1-1/2				
6-1/2	117495	68.7							
6-15/16	117496	62.1							
7" #	117497	60.6	1-3/4 x 3/4	1-3/4 x 3/4	1-3/4 x 1-1/2				
5-7/16	117479	98.6	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4				
5-15/16	117480	105.7							
6-7/16	117481	102.3							
6-1/2	117482	101.8							
6-15/16	117488	92.0							
7	117483	91.1	1-3/4 x 3/4	1-3/4 x 3/4	1-3/4 x 1-1/2				
7-1/2	117503	89.9							
8 #	117484	89.9							
7	117486	245.0	2 x 3/4	2 x 3/4	2 x 1-1/2				
8	117485	219.0							
9	117487	190.0							
10	117510	157.5	1-3/4 x 3/4	1-3/4 x 3/4	1-3/4 x 1-1/2				
8	117522	410.0	2-1/2 x 7/8	2-1/2 x 7/8	2-1/2 x 1-3/4				
8-1/2	117523	395.0							
9	117520	380.0							
9-1/2	117524	365.0							
10	117521	350.0							
10-1/2	117525	335.0	3 x 1	3 x 1	3 x 2				
11	117526	320.0							
11-1/2	117527	305.0							
12" #	117508	290.0							



SPECIFICATION



TAPER-LOCK Bushings - Reborable



TL Bush Size	Sintered Steel Bore	P/N	Cast Iron Bore	P/N	Ductile Iron Bore	P/N	Steel Bore	P/N	Stainless Steel Bore	P/N
1008	1/2"	119187					1/2"	119432	1/2"	119410
1108	1/2"	119361					1/2"	119433	1/2"	119411
1210	1/2"	119206					1/2"	119434	1/2"	119412
1215	1/2"	119023					1/2"	119435	1/2"	119413
1310	1/2"	119386					1/2"	119436	1/2"	119414
1610	1/2"	119209					1/2"	119421	1/2"	119415
1615	1/2"	119067					1/2"	119437	1/2"	119416
2012	1/2"	119272					1/2"	119422	1/2"	119417
2517	1/2"	119141					1"	119423	5/8"	119418
2525							1-7/16"	119429		
3020	7/8"	117147					1-7/16"	119430	7/8"	119419
3020	1-11/16"	117149								
3030			15/16"	117045			1-7/16"	119431		
3535			1-3/16"	117250						
4040			1-7/16"	117345	1-7/16"	117205				
4545			1-15/16"	117448	2-7/16"	117307				
5050			2-7/16"	117451	2-15/16"	117455				
6050			3-7/16"	117472	3-7/16"	117471				
7060			3-15/16"	117498	3-15/16"	117505				
8065			4-7/16"	117502	4-7/16"	117506				
10085			7"	117489						
120100			8"	117504						

NOTE: All reborable bushings are stocked without sawsplit to facilitate re-machining. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebore and keyseat service as listed in MLP price book includes sawsplit

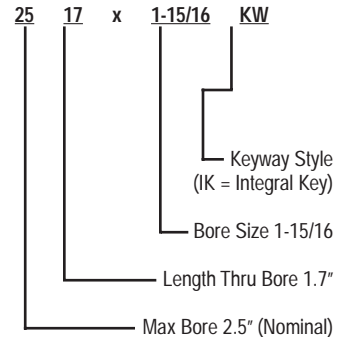
TAPER-LOCK BUSHING MAXIMUM BORE CAPACITIES (INCHES)

TL Bush Size	Sintered Steel			Cast Iron			Ductile Iron			Steel		
	Full Key	Shallow Key	No * Key	Full Key	Shallow Key	No * Key	Full Key	Shallow Key	No * Key	Full Key	Shallow Key	No * Key
1008	7/8"	1"	1"							7/8"	1"	1"
1108	1"	1-1/8"	1-1/8"							1"	1-1/8"	1-1/8"
1210	1-1/4"	1-1/4"	1-1/4"							1-1/4"	1-1/4"	1-1/4"
1215	1-1/4"	1-1/4"	1-1/4"							1-1/4"	1-1/4"	1-1/4"
1310	1-3/8"	1-3/8"	1-3/8"							1-3/8"	1-7/16"	1-7/16"
1610	1-1/2"	1-5/8"	1-5/8"							1-5/8"	1-11/16"	1-11/16"
1615	1-1/2"	1-5/8"	1-5/8"							1-5/8"	1-11/16"	1-11/16"
2012	1-7/8"	2"	2"							2"	2-1/8"	2-1/8"
2517	2-1/4"	2-1/2"	2-1/2"							2-7/16"	2-11/16"	2-11/16"
2525				2-1/4"	2-1/2"	2-1/2"				2-3/8"	2-11/16"	2-11/16"
3020	2-3/4"	3"	3"	2-3/4"	3"	3"				3"	3-1/4"	3-1/4"
3030				2-3/4"	3"	3"				3"	3-1/4"	3-1/4"
3535				3-1/4"	3-1/2"	3-1/2"	3-1/2"	3-15/16"	3-15/16"			
4040				3-5/8"	4"	4"	4"	4-7/16"	4-7/16"			
4545				4-1/2"	4-1/2"	4-1/2"	4-1/2"	4-15/16"	4-15/16"			
5050				4-1/2"	5"	5"	5"	5-5/16"	5-5/16"			
6050				6"	6"	6"	6"	6"	6"			
7060				7"	7"	7"	7"	7"	7"			
8065				8"	8"	8"	8"	8"	8"			
10085				10"	10"	10"	10"	10"	10"			
120100				12"	12"	12"	12"	12"	12"			

* Verify torque capability. Contact Application Engineering for assistance.

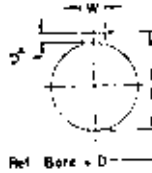
Example Nomenclature

TAPER-LOCK Bushing





TAPER-LOCK Bushings - Metric Bore



ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH.

▲ Depth measured at centerline

Reference:

1 inch = 25.4 millimeters

1 millimeter = .03937 inches

METRIC BORE CAPACITIES-TAPER-LOCK BUSHINGS

TL Bush Size	Min Bore	Sintered Steel		Cast Iron		Ductile Iron		Steel		TL Bush Size	Min Bore	Sintered Steel		Cast Iron		Ductile Iron		Steel	
		Full Key	No * Key	Full Key	No * Key	Full Key	No * Key	Full Key	No * Key			Full Key	No * Key	Full Key	No * Key	Full Key	No * Key	Full Key	No * Key
1008	13	22	25					22	26	3030	24			75	76			80	82
1108	13	25	29					25	29	3535	31			83	89	91	100		
1210	13	32	32					32	32	4040	37			95	102	100	113		
1215	13	32	32					32	32	4545	50			110	114	115	125		
1310	13	35	35					35	36	5050	61			120	127	127	134		
1610	13	39	40					42	44	6050	88			152	152	152	152		
1615	13	39	40					42	44	7060	100			177	177	177	177		
2012	13	50	51					50	55	8065	117			203	203	203	203		
2517	13	60	64					65	68	10085	178			254	254	254	254		
2525	20			57	64			65	68	120100	204			304	304	304	304		
3020	24	75	76					80	82										

NOTE: ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH
MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for "Free" fit

* Verify torque capability. Contact Application Engineering for assistance.

REFERENCE:

1 inch = 25.4 millimeters

1 millimeter = .03937 inches



SPECIFICATION



TAPER-LOCK Weld-On Hubs



Type W/WA



Type K

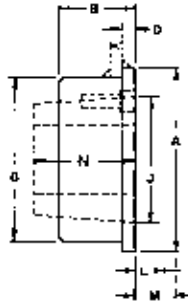
DODGE Weld-On hubs are made of 1015-1025 steel, drilled, tapped, and taper bored to receive TAPER-LOCK bushings. They are useful for welding into fan rotors, pulleys, plate sprockets, impellers, agitators, etc. which must be firmly mounted onto shafting. Four types of hubs are available from stock:

TYPE W/WA: Rugged, full length size for single-hub heavy-duty applications.

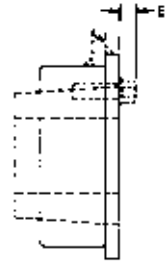
TYPE K: More compact design, especially useful for two-hub construction such as conveyor pulleys.

TYPE S: Originally designed for use in smaller sprockets using up to Taper-Lock size 3535 bushings. Suitable for many other lighter-duty applications.

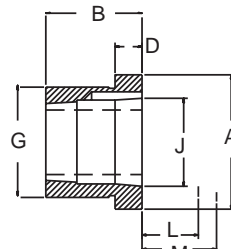
TYPE F: Features a larger flange diameter that can be welded into standard steel tubing to fabricate conveyor pulleys or process rolls.



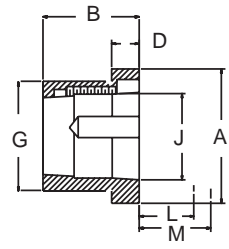
K25 to K50



K60 to K120



W12 to WA30



WA35 to WA100

TAPER-LOCK TYPE K AND TYPE W/WA WELD-ON HUBS

Hub No.	Part No.	Uses Bush.	Max. Bore	Wt. lbs.	Dimensions									Tolerances		
					A	B+	D	E	G	J Ref.	L++	M**	N	G Dimension		
W12	228010	1215	1-1/4	1.2	2.88	1.50	0.63	...	2.500*	1.88	1.38	1.63	1.50	*	+.000/- .002	
W16	228011	1615	1-11/16	1.3	3.25	1.50	0.63	...	2.875*	2.25	1.38	1.63	1.50	@	+.000/- .003	
W25	228012	2517	2-11/16	3.9	4.88	1.75	0.75	...	4.375*	3.38	1.63	2.25	1.75	~	+.000/- .004	
WA30	228087	3030	3-1/4	8.6	5.50	3.00	0.75	...	5.125*	4.25	1.81	2.69	3.00			
WA35	228088	3535	3-15/16	15	6.75	3.50	1.00	...	6.250*	5.00	2.00	3.33	3.50			
WA40	228089	4040	4-7/16	29	7.75	4.00	1.00	...	7.250*	5.75	2.38	4.13	4.00			
WA45	228090	4545	4-15/16	42	8.75	4.50	1.00	...	8.000*	6.38	2.63	4.75	4.50	+	+.001/- .125	
WA50	228091	5050	5	57	9.50	5.00	1.00	...	8.750@	7.00	2.19	5.25	5.00			
WA60	228092	6050	6	115	13.25	5.00	1.25	1.44	12.250~	9.25	1.63	4.33	5.00			
WA70	228093	7060	7	158	14.5	6.00	1.25	1.44	13.500~	10.25	1.63	4.33	6.00			
WA80	228094	8065	8	180	15.25	6.50	1.25	1.44	14.125~	11.25	1.63	4.33	6.50			
WA100	228095	10085	10	340	19.75	8.50	1.50	1.75	18.750~	14.75	2.00	5.33	8.50			
K25	207156	2517	2-11/16	3.6	4.88	1.50	0.38	...	4.375*	3.38	1.63	2.25	1.75			
K30	207157	3020	3-1/4	7.8	5.50	1.63	0.75	...	5.125*	4.25	1.81	2.69	2.00			
K35	228080	3535	3-15/16	9.8	6.75	1.63	0.75	...	6.250*	5.00	2.00	3.33	3.50			
K40	228081	4040	4-7/16	10.8	7.75	2.13	0.50	...	7.250*	5.75	2.63	4.13	4.00			
K45	228082	4545	4-15/16	15.2	8.50	2.63	0.63	...	8.000*	6.83	2.63	4.75	4.50			
K50	228083	5050	5	29	9.25	2.88	0.63	...	8.750@	7.00	2.81	5.25	5.00			
K60	228084	6050	6	44	12.75	2.88	0.63	1.44	12.250~	9.25	1.63	4.33	5.00			
K70	228085	7060	7	60	14.00	3.38	0.75	1.44	13.500~	10.25	1.63	4.33	6.00			
K80	228086	8065	8	65	14.75	3.63	0.75	1.44	14.125~	11.25	1.63	4.33	6.5			
K100	228079	10085	10	128	19.25	4.13	1.00	1.75	18.750~	14.75	2.00	5.33	8.50			
K120	228058	120100	12	225	22.25	5.38	1.00	1.75	21.750~	17.25	2.00	5.33	10.00			

++ Wrench clearance required to install bushing.

** Wrench clearance required to remove bushing.



TAPER-LOCK Weld-On Hubs

TYPE S WELD-ON HUBS

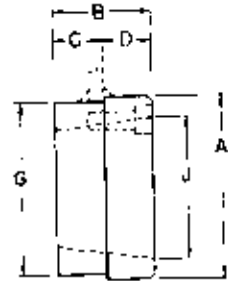
Hub No.	Part No.	Uses Bush.	Bore Range	Wt.	Dimensions						
					A	B	C	D	G	G Toler.	J Ref.
S16-4	097023	1610	1/2 to 1-11/16"	.90	3.00	1.00	0.275	.73	2.875	+0.000/-0.002	2.25
S16-6	097024	1610	1/2 to 1-11/16"	.90	3.00	1.00	0.45	.55	2.875	+0.000/-0.002	2.25
S20-6	097025	2012	1/2 to 2-1/8"	1.80	3.56	1.25	0.45	.80	3.438	+0.000/-0.002	2.75
S20-8	097015	2012	1/2 to 2-1/8"	1.40	3.56	1.25	0.57	.68	3.438	+0.000/-0.002	2.75
S25-6	097016	2517	1/2 to 2-11/16"	2.60	4.25	1.75	0.45	1.3	4.125	+0.000/-0.002	3.33
S25-8	097017	2517	1/2 to 2-11/16"	2.60	4.25	1.75	0.565	1.19	4.125	+0.000/-0.002	3.33
S25-10	097018	2517	1/2 to 2-11/16"	2.50	4.25	1.75	0.685	1.07	4.125	+0.000/-0.002	3.33
S25-16	097019	2517	1/2 to 2-11/16"	2.40	4.25	1.75	1.09	.66	4.125	+0.000/-0.002	3.33
S30-10	097020	3020	15/16 to 3-1/4"	4.30	5.25	2.00	0.675	1.33	5.125	+0.000/-0.002	4.25
S30-16	097021	3020	15/16 to 3-1/4"	4.20	5.25	2.00	1.09	.91	5.125	+0.000/-0.002	4.25
S35	097022	3535	1-3/16 to 3-15/16"	12.80	6.50	3.50	1.16	2.34	6.375	+0.000/-0.002	5.00

TAPER-LOCK TYPE F WELD-ON HUBS

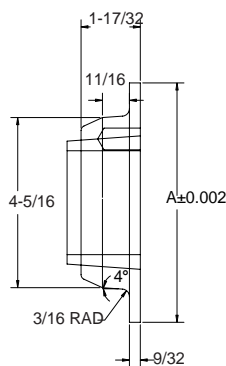
Hub No.	Part No.	Uses Bush.	Bore Range	Wt.	A
6F25P	226091	2517	1/2 to 2-11/16"	3.9	6.048
6F25A	226026	2517	1/2 to 2-11/16"	3.8	5.685
6F25B	226027	2517	1/2 to 2-11/16"	3.8	5.664
6F25C	226028	2517	1/2 to 2-11/16"	3.8	5.625
6F25D	226029	2517	1/2 to 2-11/16"	3.8	5.579
6F25E	226030	2517	1/2 to 2-11/16"	3.8	5.537
8F25P	226093	2517	1/2 to 2-11/16"	6.3	7.962
8F25A	226031	2517	1/2 to 2-11/16"	6.2	7.685
8F25B	226032	2517	1/2 to 2-11/16"	6.2	7.664
8F25C	226033	2517	1/2 to 2-11/16"	6.2	7.625
8F25D	226034	2517	1/2 to 2-11/16"	6.2	7.579
8F25E	226007	2517	1/2 to 2-11/16"	6.2	7.537
F30	226101	3020	15/16 to 3-1/4"	5.3	5.75



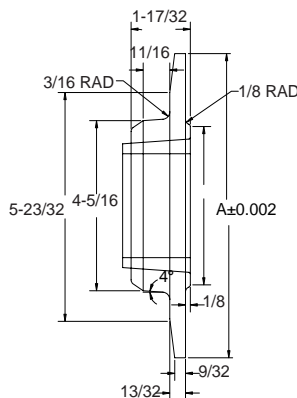
Type S



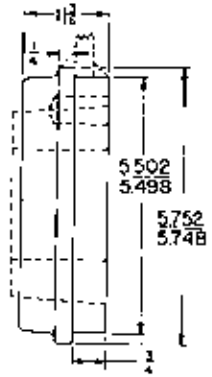
F30



6F25



8F25



F30

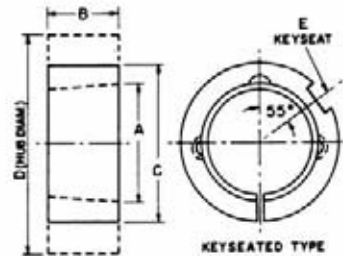
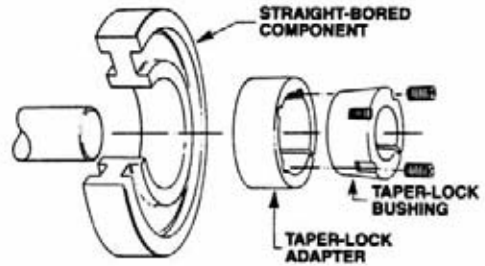
TL STOCK SIZES PAGE PT6-5	OD METRIC BORES PAGE PT6-22	OD HUBS PAGE PT6-25	T-L HUBS PAGE PT6-12
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SPECIFICATION



TAPER-LOCK Adapters



Adapters for TAPER-LOCK bushings are recommended for use where it is more convenient to straight bore than to drill, tap and taper bore hubs to accommodate bushings.

The adapter is a gray iron, taper-bored sleeve which fits into the straight bore of a hub. The bushing simply fits inside the adapter which is tapped for the bushing screws. When tightening the locking screws, adapter is expanded against the hub bore contracting the bushing tightly upon the shaft. See page PT6-3 for bushing data and wrench space required.

TAPER-LOCK ADAPTERS

Adapter No.	Type	For Use With Bush. No.	Adapter Part No.	Adapter Wt.	A Ref.	B	C*	D: Req'd Hub Dia. †		E Keyseat
								Class 30 Gray Iron	Steel	
1215B	Keyseated	1215	120011	.7	1.88	1.50	2-3/8	3.38	3.25	1/4 x 1/8
1615B	Keyseated	1615	120012	.9	2.25	1.50	2-3/4	3.75	3.50	3/8 x 1/8
2517B	Keyseated	2517	120013	2.2	3.38	1.75	4-1/8	5.50	5.00	5/8 x 1/8
2525B	Keyseated	2525	120014	3.2	3.38	2.50	4-1/8	5.25	5.00	5/8 x 1/8
3030B	Keyseated	3030	120015	5.8	4.25	3.00	5-1/8	6.88	6.25	3/4 x 3/16
3535B	Keyseated	3535	120016	11.3	5.00	3.50	6-1/4	8.38	7.88	7/8 x 3/16
4040B	Keyseated	4040	120017	17.3	5.75	4.00	7-1/4	10.13	9.38	1 x 3/16
4545B	Keyseated	4545	120018	21.9	6.38	4.50	7-7/8	11.00	10.25	1 x 3/16

* .001 to +.003 tolerance recommended for bore of hub.

† For reference. Severe conditions may require larger hub. Heavy well located web may permit smaller hub. Hub diameter required depends on the application. Consult factory giving full information on the proposed

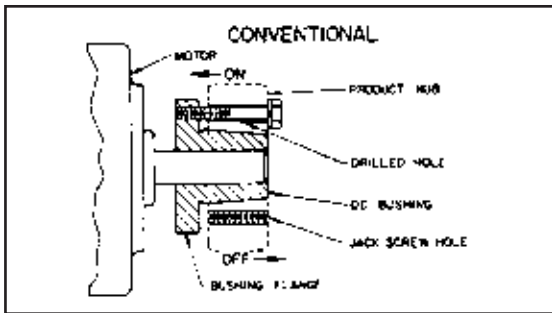
design. Hub diameters shown are based on 30,000 and 50,000 P.S.I. minimum ultimate tensile strength respectively for Class 30 gray iron and steel hubs.



QD Bushings



- Flanged Design
- 4 Degree Taper
- Easy on/Easy off
- Manufactured precisely to industry standards
- Conventional or Reverse Mounting, Including sizes M thru S - DODGE exclusive!



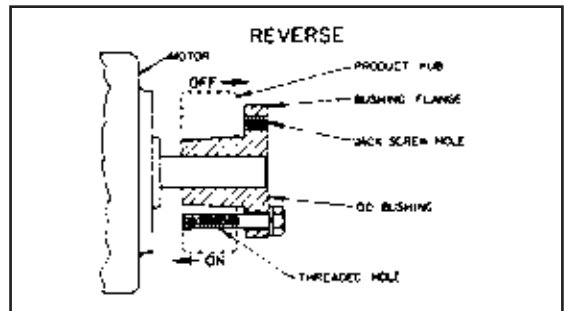
Conventional Mounting

Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange first
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

Easy Off

- Remove cap screws and install in product threaded holes
- Alternately and evenly tighten screws until bushing grip is released



Reverse Mounting

Easy On

- Place bushing in product
- Align clearance holes in product with threaded holes in bushing
- Install screws and lockwashers thru clearance holes, finger tight
- Slide assembly onto shaft, flange outward
- Locate assembly on shaft for proper drive alignment
- Tighten cap screws alternately and evenly to specified torque

Easy Off

- Remove cap screws and reinstall in flange threaded holes
- Alternately and evenly tighten screws until bushing grip is released

IMPORTANT! Do not use lubricants or anti-seize compounds on tapered bore or bushing surfaces. For complete installation instructions, refer to the sheet packaged with each bushing.



SPECIFICATION



TORQUE-TAMER

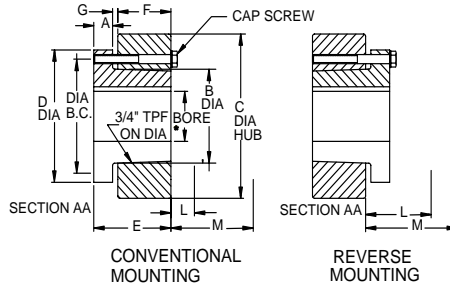
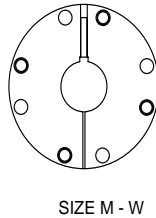
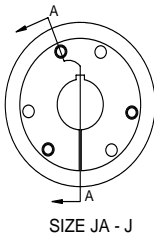
Bushings

V-Drives

FHP

Drives Component Accessories

QD Bushings - Dimensions



QD BUSHING RATINGS AND DIMENSIONS

Bush. Symb.	Ratings (Lb-in) Bush. Torque Cap.*	Bore Range				Dimensions							
		Min.	Max. Bore for:			A	B Dia.	C Hub Dia.		D Dia.	E	F	G
			Full KW	Shallow KW	No KW			Cl 30 Iron	Steel				
QT	1000	3/8	1-1/4	1-1/2	1-9/16	0.25	1.625	3.00	2.375	2.50	1.25	0.94	0.12
JA	1000	1/2	1	1-3/16	1-1/4	0.31	1.38	3.93	2.25	2.00	1.00	0.56	0.12
SH	3500	1/2	1-3/8	1-5/8	1-11/16	0.43	1.88	4.75	3.00	2.63	1.31	0.81	0.12
SDS	5000	1/2	1-5/8	1-15/16	2	0.43	2.18	4.75	3.50	3.18	1.31	0.75	0.12
SD	5000	1/2	1-5/8	1-15/16	2	0.43	2.18	3.81	3.50	3.18	1.81	1.25	0.12
SK	7000	1/2	2-1/8	2-1/2	2-5/8	0.56	2.81	4.75	4.50	3.88	1.93	1.25	0.22
SF	11000	1/2	2-5/16	2-15/16	...	0.63	3.13	6.38	5.50	4.63	2.06	1.25	0.22
E	20000	7/8	2-7/8	3-1/2	...	0.88	3.83	7.50	6.50	6.00	2.75	1.63	0.25
F	30000	1	3-1/4	3-15/16	4	1.00	4.43	7.75	7.25	6.63	3.75	2.50	0.34
J	45000	1-1/2	3-3/4	4-1/2	...	1.13	5.14	9.00	8.00	7.25	4.63	3.18	0.38
M	85000	2	4-3/4	5-1/2	...	1.25	6.50	11.38	10.00	9.00	6.75	5.18	0.41
N	150000	2-7/16	5	6	...	1.50	7.00	12.00	...	10.00	8.12	6.25	0.56
P	250000	2-15/16	5-15/16	7	...	1.75	8.25	14.00	...	11.75	9.38	7.25	0.63
W	375000	4	7-1/2	8-1/2	...	2.00	10.42	17.00	...	15.00	11.38	9.00	0.50
S	625000	5-1/2	9	10	...	2.75	12.13	19.00	...	17.75	15.25	12.00	0.75

* Torque ratings apply when bushing installation screws are tightened to listed torque. Important: Do not over-torque screws. This can lead to hub damage

INSTALLATION INFORMATION

Bush. Symb.	Installation Screws				Required Wrench Clearance							
	B. C. Dia.	Qty.	Size	Screw Torque*	Conventional Mounting				Reverse Mounting			
					L-Install		M-Remove		L-Install		M-Remove	
					#	@	#	@	#	@	#	@
QT	2	2	1/4-20 x 7/8	90	0.31	2.43	1.03	3.15	1.03	3.15	1.46	3.58
JA	1.65	3	10-24 x 1	54	0.41	2.53	1.13	3.25	1.13	3.25	1.56	3.68
SH	2.25	3	1/4 x 1-3/8	108	0.59	2.66	1.56	3.63	1.56	3.63	2.13	4.18
SDS	2.69	3	1/4 x 1-3/8	108	0.59	2.66	1.56	3.63	1.56	3.63	2.13	4.18
SD	2.69	3	1/4 x 1-7/8	108	0.66	2.72	2.06	4.13	2.06	4.13	2.63	4.68
SK	3.31	3	5/16 x 2	180	0.78	2.72	2.25	4.25	2.31	4.31	2.38	5.00
SF	3.88	3	3/8 x 2	360	0.91	2.91	2.38	4.36	2.43	4.43	3.32	5.31
E	5.00	3	1/2 x 2-3/4	720	1.25	3.19	3.13	5.06	3.18	5.13	4.43	6.38
F	5.63	3	9/16 x 3-5/8	900	1.28	3.10	4.13	5.94	4.18	6.00	5.50	7.31
J	6.25	3	5/8 x 4-1/2	1620	1.41	3.22	4.94	6.75	3.93	5.75	5.50	7.31
M	7.88	4	3/4 x 6-3/4	2700	2.16	4.03	7.69	9.56	...	...	...	...
N	8.50	4	7/8 x 8	3600	2.28	...	9.25	...	...	...	...	...
P	10.00	4	1 x 9-1/2	5400	3.13	...	10.88	...	...	...	...	...
W	12.75	4	1-1/8 x 11-1/2	7200	3.88	...	13.38	...	...	...	...	...
S	15.00	5	1-1/4 x 15	9000	3.75	...	16.50	...	...	...	...	...

Using Open-End Wrench

* Lb - in

OD STOCK SIZES PAGE PT6-17	OD METRIC BORES PAGE PT6-22	OD HUBS PAGE PT6-25	T-L HUBS PAGE PT6-12
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QD Bushings - Stock Bore

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF			
QT	3/8"	121129	0.85	None					
	7/16"	121130	0.82						
	1/2"	121131	0.81						
	9/16"	121133	0.80	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8			
	5/8"	122050	0.78	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16			
	11/16"	121134	0.76						
	3/4"	121162 +	0.74						
	3/4"	122051	0.74						
	13/16"	121136	0.70						
	7/8"	121163 +	0.68						
	7/8"	122052	0.68						
	15/16"	121138	0.66	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4			
	1"	121164 +	0.62						
	1"	122053	0.62						
	1-1/16"	121140	0.59						
	1-1/8"	121186 +	0.56						
	1-1/8"	122054	0.56						
	1-3/16"	121187 +	0.52						
	1-3/16"	122055	0.52						
	1-1/4"	122056	0.49						
1-5/16"	121144	0.44							
1-3/8"	121145	0.43	5/16 x 1/16	5/16 x 5/32	5/16 x 7/32 Δ				
1-7/16"	121146	0.38	3/8 x 1/16	3/8 x 3/16	3/8 x 1/4 Δ				
1-1/2"	121147	0.34							
14MM	121148	0.79	6 x 2.8MM	6 x 3.5MM	6 x 6MM				
19MM	121149	0.74							
20MM	121467	0.73							
24MM	121150	0.61	8 X 3.3MM	8 X 4MM	8 X 7MM				
25MM	121151	0.63							
28MM	151152	0.57							
30MM	121153	0.53							
32MM	121154	0.50							
JA	1/2"	120332	0.46	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8			
	9/16"	120333	0.46						
	5/8"	120334	0.45						
	11/16"	120335	0.43	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16			
	3/4"	120336	0.41						
	13/16"	120337	0.40						
	7/8"	120338	0.37						
	15/16"	120339	0.35	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4			
	1"	120340	0.33						
	1-1/16"	120341	0.34	1/4 x 1/16	1/4 x 1/8	1/4 x 3/16 Δ			
1-1/8"	120342	0.31							
1-3/16"	120343	0.29							
1-1/4"	120344	0.25							
SH	1/2"	120345	1.16	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8			
	9/16"	120346	1.14						
	5/8"	120347	1.14	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16			
	11/16"	120348	1.14						
	3/4"	120349	1.10						
	13/16"	120350	1.07						
	7/8"	120351	1.04						
	15/16"	120352	1.00	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4			
	1"	120353	0.98						
	1-1/16"	120354	0.94						
	1-1/8"	120355	0.91						
	1-3/16"	120356	0.88						
	1-1/4"	120357	0.84						
	1-5/16"	120358	0.82				5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-3/8"	120359	0.80						
	1-7/16"	120360	0.79				3/8 x 1/16	3/8 x 3/16	3/8 x 1/4 Δ
	1-1/2"	120361	0.75						
	1-9/16"	120362	0.90						
	1-5/8"	120363	0.64						
	1-11/16"	120580	0.55						
SDS	24MM	120088	1.00	8 X 3.3MM	8 X 4MM	8 X 7MM			
	25MM	120089	0.99						
	28MM	120090	0.93						
	30MM	120091	0.87						
	32MM	120092	0.82						
	35MM	120093	0.74	10 X 3.3MM	10 X 5MM	10 X 8MM			
	SH (Cont)	1/2"	120388	1.65	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8		
		9/16"	120389	1.65					
		5/8"	120390	1.61	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16		
		11/16"	120391	1.60					
		3/4"	120392	1.58					
		13/16"	120393	1.54					
		7/8"	120394	1.54					
		15/16"	120395	1.50	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4		
		1"	120396	1.46					
		1-1/16"	120397	1.43					
		1-1/8"	120398	1.38					
		1-3/16"	120399	1.36					
		1-1/4"	120400	1.32					
		1-5/16"	120401	1.26				5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
1-3/8"		120402	1.24						
1-7/16"	120403	1.19	3/8 x 3/16	3/8 x 3/16				3/8 x 3/8	
1-1/2"	120404	1.15							
1-9/16"	120405	1.11							
1-5/8"	120406	1.08							
1-11/16"	120407	1.08							
1-3/4"	120408	1.02	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16 Δ				
1-13/16"	120409	0.98	1/2 x 1/16	1/2 x 1/4	1/2 x 3/16 Δ				
1-7/8"	120410	0.92							
1-15/16"	120411	0.87							
2"	120412	0.77	None						
SD	24MM	120094	1.47	8 X 3.3MM	8 X 4MM	8 X 7MM			
	25MM	120095	1.47						
	28MM	120096	1.41						
	30MM	120097	1.36						
	32MM	120098	1.31						
	35MM	120099	1.22	10 X 3.3MM	10 X 5MM	10 X 8MM			
	38MM	120100	1.00	12 X 3.3MM	12 X 5MM	12 X 8MM			
	40MM	120101	1.01						
	42MM	120102	1.02						
	1/2"	120364	2.07	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8			
	9/16"	120365	2.05						
	5/8"	120366	2.03	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16			
	11/16"	120367	2.00						
	3/4"	120368	2.00						
	13/16"	120369	2.00						
7/8"	120370	1.88							
15/16"	120371	1.85	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4				
1"	120372	1.80							
1-1/16"	120373	1.79							
1-1/8"	120374	1.72							
1-3/16"	120375	1.67							
1-1/4"	120376	1.62							
1-5/16"	120377	1.55				5/16 x 5/32	5/16 x 5/32	5/16 x 5/16	
1-3/8"	120378	1.50							
1-7/16"	120379	1.44				3/8 x 3/16	3/8 x 3/16	3/8 x 3/8	
1-1/2"	120380	1.36							
1-9/16"	120381	1.29							
1-5/8"	120382	1.29							
1-11/16"	120383	1.20							
1-3/4"	120384	1.19	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16 Δ				
1-13/16"	120385	1.15							
1-7/8"	120386	1.07	1/2 x 1/16	1/2 x 1/4	1/2 x 5/16 Δ				
1-15/16"	120387	1.00							
2"	120581	0.84	None						

Δ Key furnished for these sizes ONLY
+ Integral Key Bushings

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SPECIFICATION



QD Bushings - Stock Bore

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF		
SD (Cont'd)	24MM	120103	1.84	8 X 3.3MM	8 X 4MM	8 X 7MM		
	25MM	120104	1.82					
	28MM	120105	1.72					
	30MM	120106	1.66	10 X 3.3MM	10 X 5MM	10 X 8MM		
	32MM	120107	1.58					
	35MM	120108	1.49					
38MM	120109	1.37						
40MM	120110	1.28	12 X 3.3MM	12 X 5MM	12 X 8MM			
42MM	120111	1.18						
SK	1/2"	120413	3.77	1/8 x 1/16	1/8 x 1/16	1/8 x 1/8		
	9/16"	120414	3.74					
	5/8"	120415	3.72	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16		
	11/16"	120416	3.70					
	3/4"	120417	3.61					
	13/16"	120418	3.53					
	7/8"	120419	3.58					
	15/16"	120420	3.52	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4		
	1"	120421	3.45					
	1-1/16"	120422	3.41					
	1-1/8"	120423	3.37					
	1-3/16"	120424	3.31					
	1-1/4"	120425	3.31					
	1-5/16"	120426	3.18	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16		
	1-3/8"	120427	3.12					
	1-7/16"	120428	3.08	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8		
	1-1/2"	120429	3.00					
	1-9/16"	120430	2.95					
	1-5/8"	120431	2.86					
	1-11/16"	120432	2.79					
	1-3/4"	120433	2.88					
	1-13/16"	120434	2.62	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2		
	1-7/8"	120435	2.50					
	1-15/16"	120436	2.42					
2"	120437	2.32						
2-1/16"	120438	2.26						
2-1/8"	120439	2.17						
2-3/16"	120440	2.21	1/2 x 3/16	1/2 x 1/4	1/2 x 7/16 Δ			
2-1/4"	120441	2.09						
2-5/16"	120442	2.00	5/8 x 1/16	5/8 x 5/16	5/8 x 3/8 Δ			
2-3/8"	120443	1.91						
2-7/16"	120444	1.81						
2-1/2"	120445	1.72						
2-5/8"	120447	1.32				None		
24MM	120112	2.00				8 X 3.3MM	8 X 4MM	8 X 7MM
25MM	120113	2.00						
28MM	120114	2.00						
30MM	120115	2.00						
32MM	120116	2.00	10 X 3.3MM	10 X 5MM	10 X 8MM			
35MM	120117	2.00						
38MM	120118	2.00						
40MM	120119	2.00						
42MM	120120	2.00	12 X 3.3MM	12 X 5MM	12 X 8MM			
45MM	120070	2.00						
48MM	120121	2.00	14 X 3.8MM	14 X 5.5MM	14 X 9MM			
50MM	120122	2.00						
55MM	120123	2.00						
SF	1/2"	120448	5.27	1/8 x 1/4	1/8 x 1/4	1/8 x 1/8		
	9/16"	120449	5.27					
	5/8"	120450	5.22	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16		
	11/16"	120451	5.20					
	3/4"	120452	5.17					
	13/16"	120453	5.32					
	7/8"	120454	5.08					

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
SF (Cont'd)	15/16"	120455	5.05	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1"	120456	5.00			
	1-1/16"	120457	4.95			
	1-1/8"	120458	4.90			
	1-3/16"	120459	4.83			
	1-1/4"	120460	4.77			
	1-5/16"	120461	4.71	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-3/8"	120462	4.61			
	1-7/16"	120463	4.57	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-1/2"	120464	4.48			
	1-9/16"	120465	4.42			
	1-5/8"	120466	4.32			
	1-11/16"	120467	4.31			
	1-3/4"	120468	4.16			
	1-13/16"	120469	4.06	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	1-7/8"	120470	4.00			
	1-15/16"	120471	3.87			
	2"	120472	3.78			
	2-1/16"	120473	3.70			
	2-1/8"	120474	3.57			
	2-3/16"	120475	3.45	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-1/4"	120476	3.38			
	2-5/16"	120477	3.32	5/8 x 3/16	5/8 x 5/16	5/8 x 5/16 Δ
	2-3/8"	120478	3.39			
2-7/16"	120479	3.26	5/8 x 1/16	5/8 x 5/16	5/8 x 3/8 Δ	
2-1/2"	120592	3.16				
2-5/8"	120482	2.91	3/4 x 1/8	3/4 x 3/8	3/4 x 1/2 Δ	
2-11/16"	120483	2.80				
2-3/4"	120484	2.59				
2-13/16"	120485	2.50	3/4 x 1/32	3/4 x 3/8	3/4 x 7/32 Δ	
2-7/8"	120486	2.35				
2-15/16"	120487	2.22				
28MM	120124	2.00	8 X 3.3MM	8 X 4MM	8 X 7MM	
30MM	120125	2.00				
32MM	120126	2.00	10 X 3.3MM	10 X 5MM	10 X 8MM	
35MM	120127	2.00				
38MM	120128	2.00				
40MM	120129	2.00				
42MM	120130	2.00	12 X 3.3MM	12 X 5MM	12 X 8MM	
45MM	120071	2.00				
48MM	120131	2.00	14 X 3.8MM	14 X 5.5MM	14 X 9MM	
50MM	120132	2.00				
55MM	120133	2.00				
60MM	120134	2.00	16 X 4.3MM	16 X 6MM	16 X 10MM	
			18 X 4.4MM	18 X 7MM	18 X 11MM	
E	7/8"	120488	11.80	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16
	1"	120490	11.65	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/8"	120492	11.46			
	1-3/16"	120493	11.40			
	1-1/4"	120494	11.33			
	1-5/16"	120495	11.26	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-3/8"	120496	11.20			
	1-7/16"	120497	11.13	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-1/2"	120498	10.86			
	1-9/16"	120499	10.82			
	1-5/8"	120500	10.69			
	1-11/16"	120501	10.56			
1-3/4"	120502	10.46				
1-7/8"	120504	10.16	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2	
1-15/16"	120505	10.16				
2"	120506	10.01				
2-1/16"	120507	9.85				
2-1/8"	120508	9.73				
2-3/16"	120509	9.42				
2-1/4"	120510	9.42				

Δ Key furnished for these sizes ONLY

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QD Bushings - Stock Bore

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
E (Cont)	2-5/16"	120511	9.07	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-3/8"	120512	8.95			
	2-7/16"	120513	8.77			
	2-1/2"	120514	8.72			
	2-5/8"	120516	8.37			
	2-11/16"	120517	8.05			
	2-3/4"	120518	7.90	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	2-13/16"	120519	7.70			
	2-7/8"	120520	7.32	3/4 x 1/8	3/4 x 3/8	3/4 x 1/2 Δ
	2-15/16"	120521	7.53			
	3"	120522	7.31			
	3-1/8"	120524	6.90			
	3-3/16"	*120525	6.69			
	3-1/4"	120526	6.48			
	3-5/16"	120527	6.10	7/8 x 1/8	7/8 x 7/16	7/8 x 9/16 Δ
	3-3/8"	120528	6.21	7/8 x 1/16	7/8 x 7/16	7/8 x 1/2 Δ
	3-7/16"	120529	5.86			
	3-1/2"	120530	5.73			
	28MM	120073	10.20	8 X 3.3MM	8 X 4MM	8 X 7MM
	30MM	120074	10.20			
32MM	120075	10.20	10 X 3.3MM	10 X 5MM	10 X 8MM	
35MM	120135	10.20				
38MM	120136	10.00				
40MM	120137	10.88	12 X 3.3MM	12 X 5MM	12 X 8MM	
42MM	120138	9.80				
45MM	120141	9.60	14 X 3.8MM	14 X 5.5MM	14 X 9MM	
48MM	120139	10.26				
50MM	120140	10.06				
55MM	120142	9.56				
60MM	120143	9.10	18 X 4.4MM	18 X 7MM	18 X 11MM	
65MM	120144	9.60				
70MM	120145	7.87	20 X 4.9MM	20 x 7.5MM	20 X 12MM	
75MM	120146	7.28				
F	1"	120531	19.41	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
	1-1/8"	120533	19.15			
	1-3/16"	120534	18.00			
	1-1/4"	120535	18.99			
	1-3/8"	120537	18.68	5/16 x 5/32	5/16 x 5/32	5/16 x 5/16
	1-7/16"	120538	18.56	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-1/2"	120539	18.48			
	1-9/16"	120540	18.40			
	1-5/8"	120541	18.15			
	1-11/16"	120542	17.91			
	1-3/4"	120543	16.77			
	1-13/16"	120544	17.62	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	1-7/8"	120545	16.41			
	1-15/16"	120546	16.00			
	2"	120547	16.00			
	2-1/16"	120548	16.00			
	2-1/8"	120549	15.95			
	2-3/16"	120550	15.95	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-1/4"	120551	15.95			
	2-5/16"	120552	15.95			
2-3/8"	120553	15.50				
2-7/16"	120554	15.50				
2-1/2"	120555	15.37				
2-5/8"	120557	14.86	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4	
2-11/16"	120558	14.50				
2-3/4"	120559	14.37				
2-13/16"	120560	14.00				
2-7/8"	120561	14.02				
2-15/16"	120562	13.47				
3"	120563	13.20	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4	
3-1/8"	120565	12.67				
3-3/16"	120566	12.50				
3-1/4"	120567	12.00				

Δ Key furnished for these sizes ONLY

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
F (Cont)	3-3/8"	120569	12.00	7/8 x 3/16	7/8 x 7/16	7/8 x 5/8 Δ
	3-7/16"	120570	11.88			
	3-1/2"	120571	11.40			
	3-5/8"	120573	10.53			
	3-11/16"	120574	14.00			
	3-3/4"	120575	9.89			
	3-7/8"	120577	9.26	1 x 1/8	1 x 1/2	1 x 5/8 Δ
	3-15/16"	120578	9.23			
	4"	120579	7.96	None		
	45MM	120076	16.20	14 X 3.8MM	14 X 5.5MM	14 X 9MM
	48MM	120147	16.00			
	50MM	120148	15.80			
	55MM	120149	15.80	16 X 4.3MM	16 X 6MM	16 X 10MM
	60MM	120150	15.80	18 X 4.4MM	18 X 7MM	18 X 11MM
	65MM	120151	14.30			
70MM	120152	14.30	20 X 4.9MM	20 x 7.5MM	20 X 12MM	
75MM	120153	13.50				
80MM	120154	12.55	22 X 5.4MM	22 X 9MM	22 X 14MM	
85MM	120155	10.60				
90MM	120077	10.50	25 X 5.4MM	25 X 9MM	25 X 14MM	
J	1-1/2"	120600	28.97	3/8 x 3/16	3/8 x 3/16	3/8 x 3/8
	1-5/8"	120601	28.61			
	1-3/4"	120603	28.28			
	1-7/8"	120604	27.79	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	1-15/16"	120605	27.53			
	2"	120606	27.33			
	2-1/8"	120607	26.74			
	2-3/16"	120608	26.37			
	2-1/4"	120609	26.32			
	2-3/8"	120610	25.65	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-7/16"	120611	25.52			
	2-1/2"	120612	25.05			
	2-5/8"	120613	24.50			
	2-11/16"	120614	24.18			
	2-3/4"	120615	23.86			
2-7/8"	120617	23.15	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4	
2-15/16"	120618	23.07				
3"	120619	22.43				
3-1/8"	120620	21.68				
3-3/16"	120621	21.35				
3-1/4"	120622	20.98				
3-3/8"	120623	20.33	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8	
3-7/16"	120624	21.13				
3-1/2"	120625	19.58				
3-5/8"	120626	18.44				
3-11/16"	120627	18.04				
3-3/4"	120628	17.62				
3-7/8"	120629	17.94	1 x 1/8	1 x 1/2	1 x 5/8 Δ	
3-15/16"	120630	17.38				
4"	120631	16.62				
4-1/8"	120632	15.69				
4-3/16"	120633	14.55				
4-1/4"	120634	14.68				
4-3/8"	120635	14.00	18 X 4.4MM	18 X 7MM	18 X 11MM	
4-7/16"	120636	13.49				
4-1/2"	120637	12.67				
50MM	120157	26.50				
55MM	120158	25.60				
60MM	120159	25.82				
65MM	120160	25.25	20 X 4.9MM	20 x 7.5MM	20 X 12MM	
70MM	120161	24.04				
75MM	120162	21.90	22 X 5.4MM	22 X 9MM	22 X 14MM	
80MM	120163	20.90				
85MM	120164	20.52	25 X 5.4MM	25 X 9MM	25 X 14MM	
90MM	120165	18.10				
95MM	120166	16.80				
100MM	120167	16.50	28 X 6.4MM	28 X 10MM	28 X 16MM	

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SPECIFICATION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

QD Bushings - Stock Bore

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF
M	2"	119900	62.65	1/2 x 1/4	1/2 x 1/4	1/2 x 1/2
	2-1/8"	119901	62.65			
	2-3/16"	119902	61.58			
	2-1/4"	119903	61.14			
	2-3/8"	119904	59.50	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-7/16"	119905	59.35			
	2-1/2"	119906	59.21			
	2-5/8"	119907	58.69			
	2-3/4"	119908	57.86			
	2-7/8"	119909	56.57			
	2-15/16"	119910	56.17	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3"	119911	56.10			
	3-1/8"	119912	55.82			
	3-3/16"	119913	53.84			
	3-1/4"	119914	53.42			
	3-3/8"	119915	52.06			
	3-7/16"	119916	52.04	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	3-1/2"	119917	51.12			
	3-5/8"	119918	50.08			
	3-11/16"	119919	49.00			
	3-3/4"	119920	48.47			
	3-7/8"	119921	47.03			
	3-15/16"	119922	46.26	1 x 1/2	1 x 1/2	1 x 1
	4"	119923	46.09			
	4-1/8"	119924	44.31			
	4-3/16"	119925	43.64			
	4-1/4"	119926	42.81			
	4-3/8"	119927	41.46			
	4-7/16"	119928	40.60	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4
	4-1/2"	119929	40.27			
4-11/16"	119930	37.12				
4-3/4"	119931	37.00				
4-7/8"	119932	36.89				
4-15/16"	119933	36.13				
5"	119934	35.66	1-1/4 x 1/4	1-1/4 x 5/8	1-1/4 x 7/8 Δ	
5-1/8"	119899	35.00				
5-3/16"	119894	35.00				
5-1/4"	119935	30.00				
5-7/16"	119936	30.00				
5-1/2"	119937	29.00				
N	2-7/16"	119940	87.57	5/8 x 5/16	5/8 x 5/16	5/8 x 5/8
	2-15/16"	119941	80.00	3/4 x 3/8	3/4 x 3/8	3/4 x 3/4
	3-7/16"	119942	80.00	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8
	3-1/2"	119980	80.00			
	3-3/4"	119943	80.00			
	3-7/8"	119944	80.00			
	3-15/16"	119945	80.00	1 x 1/2	1 x 1/2	1 x 1
	4"	119946	80.00			
	4-3/16"	119947	80.00			
	4-1/4"	119948	80.00			
	4-3/8"	119982	79.00			
	4-7/16"	119949	78.00			
	4-1/2"	119950	77.00			

QD Bush Size	BORE	P/N Keyway	WT.	Bushing Keyway	Shaft Keyway REF	Key Size REF	
N (Con't)	4-11/16"	119983	76.00	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4	
	4-3/4"	119951	75.00				
	4-7/8"	119952	74.00				
	4-15/16"	119953	73.00				
	5"	119954	72.00				
	5-1/8"	119955	71.00	1-1/4 x 1/4	1-1/4 x 5/8	1-1/4 x 7/8 Δ	
	5-1/4"	119956	70.00				
	5-7/16"	119957	52.19				
	5-1/2"	119958	49.02				
	5-3/4"	119959	49.00	1-1/2 x 1/8	1-1/2 x 3/4	1-1/2 x 7/8 Δ	
5-7/8"	119960	44.00					
5-15/16"	119961	43.00					
6"	119962	42.00					
P	3-7/16"	119965	134.00	7/8 x 7/16	7/8 x 7/16	7/8 x 7/8	
	3-15/16"	119966	122.00	1 x 1/2	1 x 1/2	1 x 1	
	4-7/16"	119967	122.00				
	4-1/2"	119968	121.00				
	4-3/4"	119969	120.00	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4	
	4-7/8"	119985	120.00				
	4-15/16"	119970	119.00				
	5"	119971	115.00				
	5-3/16"	119984	114.00				
	5-7/16"	119972	113.00				
	5-1/2"	119973	100.00				
	5-15/16"	119974	94.00				
	6"	119975	92.50	1-1/2 x 1/4	1-1/2 x 3/4	1-1/2 x 1 Δ	
	6-7/16"	119976	83.50				
	6-1/2"	119977	80.50				
	7"	119978	68.00	1-3/4 x 1/8	1-3/4 x 3/4	1-3/4 x 7/8 Δ	
	W	4-1/4"	120180	260.00	1 x 1/2	1 x 1/2	1 x 1
		4-7/16"	120181	256.60			
4-1/2"		120182	255.40				
4-3/4"		120183	250.00	1-1/4 x 5/8	1-1/4 x 5/8	1-1/4 x 1-1/4	
5"		120186	244.30				
5-3/8"		120188	235.30				
5-1/2"		120189	232.20				
5-3/4"		120190	225.70	1-1/2 x 3/4	1-1/2 x 3/4	1-1/2 x 1-1/2	
5-7/8"		120191	222.30				
5-15/16"		120192	220.00				
6"		120193	218.90				
6-1/2"		120194	215.00				
7"	120196	184.90					
7-1/4"	120197	184.40	1-3/4 x 3/4	1-3/4 x 3/4	1-3/4 x 1-1/2		
7-1/2"	120198	175.80	2 x 1/4	2 x 3/4	2 x 1 Δ		
8"	120200	159.70					

Δ Key furnished for these sizes ONLY

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QD - Reborable

QD Bush Size	Sintered Steel		Cast Iron		Ductile Iron	
	Bore	P/N	Bore	P/N	Bore	P/N
JA	1/2"	120050				
SH	1/2"	120051			1/2"	119876
SDS	1/2"	120052			1-7/16"	119877
SD	1/2"	120053			1-9/16"	119878
SK	1/2"	120054			2"	119879
SF	1/2"	120055			2-5/16"	119880
E			7/8"	120056	7/8"	119881
F			1"	120057	1"	119882
J			1-1/2"	120058	1-1/2"	119883
M			2"	119938	2"	119884
N			2-7/16"	119963	2-7/16"	119885
P			3-7/16"	119979	3-7/16"	119886
W			4"	120276		

NOTE: All reborable bushings are stocked without sawsplit to facilitate re-machining. Sawsplit must be made in bushing to allow it to compress for proper gripping of the shaft. Factory rebores and keyseat service as listed in MLP price book includes sawsplit

QD - Maximum Bore Capacities

QD Bush Size	Sintered Steel			Cast Iron			Ductile Iron			
	Full Key	Shallow Key	Metric	Full Key	Shallow Key	Metric	Full Key	Shallow Key	No * Key	Metric
JA	1"	1-1/16"	24				1"	1-3/16"	1-1/4"	25
SH	1-1/4"	1-1/4"	30				1-3/8"	1-5/8"	1-11/16"	36
SDS	1-9/16"	1-5/8"	40				1-5/8"	1-15/16"	2"	42
SD	1-9/16"	1-9/16"	40				1-11/16"	1-15/16"	2"	42
SK	2"	2-1/16"	51				2-1/2"	2-1/2"	2-5/8"	55
SF	2-1/4"	2-3/8"	55				2-5/16"	2-15/16"	2-15/16"	60
E				2-3/4"	3"	75	2-7/8"	3-1/2"	3-1/2"	82
F				3-1/4"	3-7/16"	90	3-1/4"	3-15/16"	4"	92
J				3-3/4"	3-7/8"	100	3-3/4"	4-1/2"	4-1/2"	104
M				4-3/4"	5"	120	4-3/4"	5-1/2"	5-1/2"	130
N				5"	5-1/4"	130	5"	6"	6"	135
P				5-15/16"	7"	160	5-15/16"	7"	7"	165
W				7"	8"	200	8"	8-1/2"	8-1/2"	205
S				8-1/2"	10"	250				

NOTE: ISO STANDARD METHOD FOR MEASURING KEYSEAT DEPTH
 MM Bore and Keyway dimensions conform to ISO standard recommendation R773, for "Free" fit

* Verify torque capability. Contact Application Engineering for assistance.

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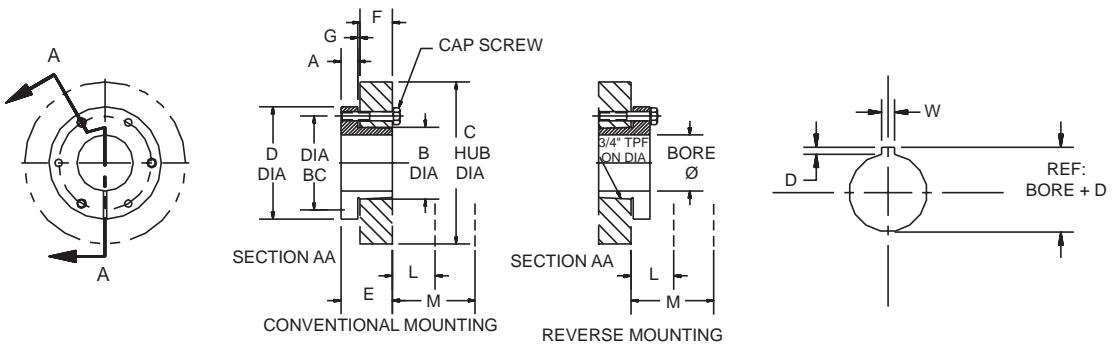
SPECIFICATION



QD Bushing - Metric Bore/Metric Hardware

FEATURES

- ◆ DODGE QD-style bushings stocked in popular finish bore sizes and minimum plain bore, for custom re boring
- ◆ DODGE Metric QD bushings supplied with metric hex-head cap screws and lock washers
- ◆ Stock reborable bushings available for custom re boring
- ◆ Re boring and sawsplit available from DODGE for nominal extra charge
NOTE: Re bore by others must be sawsplit after re bore
- ◆ Can be used with DODGE HTD sprockets for conventional mounting only (*English thread hardware required for demounting.*)





QD Bushing - Metric Bore/Metric Hardware

STOCK REBORABLE BUSHINGS & SPECIFICATIONS

Bush-Sym.	Part No.	Dimensions (MM)										
		Stock Bore	Max Bore *		Amm	Bmm	C Hub Dia		Dmm	Emm	Fmm	Gmm
			-1.00000	-2.00000			Iron	Steel				
QT	119861	12.70	30	35	6.40	41.40	76.20	69.90	63.50	33.30	22.20	4.80
JA	119860	12.70	24	25	7.90	35.10	99.80	57.20	50.80	25.40	14.20	3.10
SH	119862	12.70	30	36	10.90	47.80	120.70	76.20	66.80	33.30	20.60	3.10
SDS	119863	12.70	40	42	10.90	55.40	120.70	88.90	80.80	33.30	19.10	3.10
SD	119864	12.70	40	42	10.90	55.40	96.80	88.90	80.80	46.00	31.80	3.10
SK	119865	12.70	51	55	14.20	71.40	120.70	114.30	98.60	49.00	31.80	5.60
SF	119866	12.70	55	60	16.00	79.50	162.10	139.70	117.60	52.30	31.80	5.60
E	119867	22.20	75	82	22.40	97.30	190.50	165.10	152.40	69.90	41.40	6.40
F	119868	25.40	90	92	25.40	115.50	196.90	184.20	168.40	95.30	63.50	8.60
J	119869	38.10	100	104	28.70	130.60	228.60	203.20	184.20	117.60	80.80	9.70
M	119870	50.80	120	130	31.80	165.10	289.10	254.00	228.60	171.50	131.60	10.40

*Full Key Set (1) Sintered Steel or (2) Ductile Iron will be used depending on max bore size selected

Bushing			Bolt			
Type	Torque Capacity (Nm)	Center Dia (mm)	Qty	Length (mm)	Size	Bolt Torque (Nm)
QT	113	50.8	2	22	M6 x 1	9.6
JA	113	42.3	3	25	M5 x 0.8	5.6
SH	395	57.2	3	35	M6 x 1	11.5
SDS	565	68.3	3	35	M6 x 1	11.5
SD	565	68.3	3	50	M6 x 1	11.5
SK	781	84.1	3	50	M8 x 1.25	20.5
SF	1243	98.4	3	50	M10 x 1.5	34.0
E	2260	127.0	3	70	M12 x 1.75	77.0
F	3390	142.9	3	100	M14 x 2	100.0
J	5085	158.8	3	120	M16 x 2	194.5
M	9600	200.0	4	180	M20 x 2.5	256.0



SPECIFICATION



QD Bushing - Metric Series

METRIC QD BUSHING - METRIC HARDWARE

MM Bore	Bushing No.									MM Keyway	
	QT	JA	SH	SDS	SD	SK	SF	E	F	W	D
19	----	117371	----	----	----	----	----	----	----	6	2.80
20	----	117372	117378	117385	----	----	----	----	----	6	2.80
24	----	117373	117379	117386	117531	117540	----	----	----	8	3.30
25	----	117374*	117380	117387	117532	117541	117553	----	----	8	3.30
28	----	----	117381	117388	117533	117542	117554	117566	117578	8	3.30
30	----	----	117382	117389	117534	117543	117555	117567	117579	8	3.30
32	117358	----	117383*	117390	117535	117544	117556	117568	117580	10	3.30
35	----	----	117384*	117391	117536	117545	117557	117569	117581	10	3.30
38	----	----	----	117392	117537	117546	117558	117570	117582	10	3.30
40	----	----	----	117393	117538	117547	117559	117571	117583	12	3.30
42	----	----	----	117394*	117539*	117548	117560	117572	117584	12	3.30
45	----	----	----	----	----	117549	117561	117573	117585	14	3.80
48	----	----	----	----	----	117550	117562	117574	117586	14	3.80
50	----	----	----	----	----	117551	117563	117575	117587	14	3.80
55	----	----	----	----	----	117552*	117564	117576	117588	16	4.30
60	----	----	----	----	----	----	117565*	117577	117589	18	4.40

* Ductile Iron

TORQUE-TAMER

Bushings

V-Drives

FHP

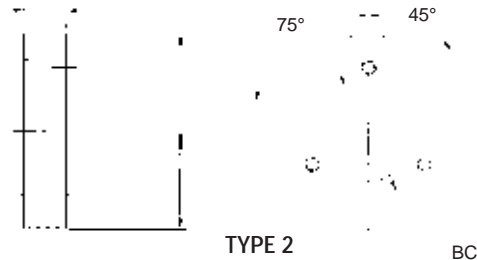
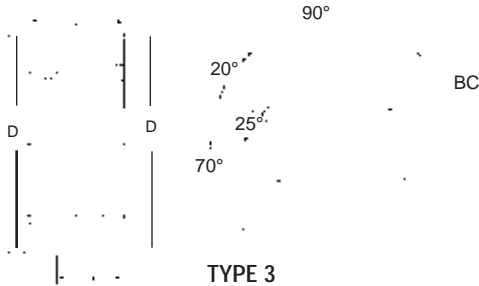
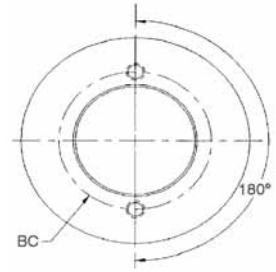
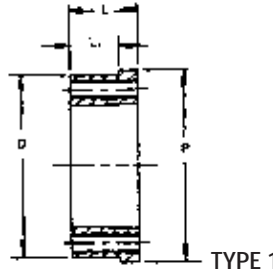
Drives Component Accessories

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QD Hubs

DODGE QD Weld-On hubs are useful for welding into fan rotors, pulleys plate sprockets, impellers, agitators, etc. which require secure mounting to the shaft. These hubs are made of low carbon steel for good welding compatibility. The data tabulation shows the standard QD bushings that are used with these hubs.



QD WELD-ON HUBS

Hub No.	Part No.	For Bush	Bore Range	Wt. Lbs.	Type	Dimensions					
						D*	L	BC	P	L1	Thread Size
QT-A	228465	QT	3/8 to 1-1/2"	0.6	1	2.375	0.88	2.00	2.50	0.17	1/4-20 NC x 3/4
JA-A	228466	JA	1/2 to 1-1/4"	0.4	2	2.250	0.56	1.66	....	....	10-24 NC x 1
SH-A	228467	SH	1/2 to 1-11/16"	1.0	2	3.000	0.81	2.25	....	....	1/4-20 NC x 1-3/8
SDS-A	228468	SDS	1/2 to 2"	1.3	2	3.500	0.75	2.69	....	....	1/4-20 NC x 1-3/8
SK-A	228469	SK	1/2 to 2-5/8"	3.0	2	4.375	1.25	3.31	....	....	5/16-18 NC x 2
SF-A	228470	SF	1/2 to 2-15/16"	4.0	2	5.000	1.25	3.88	....	....	3/8-16 NC x 2
E-A	228471	E	7/8 to 3-1/2"	9.0	2	6.250	1.63	5.00	....	....	1/2-13 NC x 2-3/4
F-A	228472	F	1 to 4"	16.0	2	7.000	2.50	5.63	....	....	9/16-12 NC x 3-5/8
J-A	228473	J	1-1/2 to 4-1/2"	22.5	2	7.750	3.19	6.25	....	....	5/8-11 NC x 4-1/2
M-A	228474	M	2 to 5-1/2"	50.0	3	9.250	5.19	7.88	9.50	3.56	3/4-10 NC x 6-3/4
N-A	228475	N	2-7/16 to 5-7/8"	75.0	3	10.250	6.25	8.50	10.50	4.50	7/8-9 NC x 8
P-A	228476	P	2-15/16 to 7"	155.0	2	13.000	7.25	10.00	....	....	1-8 NC x 9-1/2
W-A	228477	W	4 to 8-1/2"	300.0	2	15.50	9.00	12.75	....	....	1-1/16-7 NC x 11-1/2

Mounting:

- Type 1: Reverse only
- Type 2: conventional or Reverse
- Type 3: conventional only

*Tolerance:

- QT-A Thru J-A = (+0.000"/-0.002")
- M-A Thru W-A = (+0.000"/-0.003")

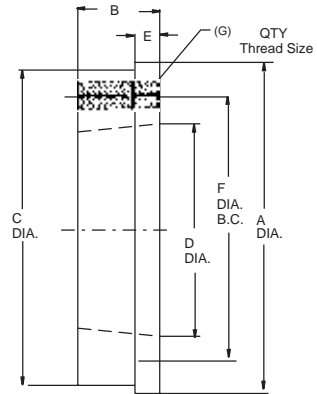
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SPECIFICATION



QD Weld-On Hubs for Conveyor Pulleys



DODGE QD Weld-On Hubs for conveyor pulleys are specifically designed for use in the end disc of a conveyor pulley. Their short length through bore provides more

forgiveness under the operating stresses of the pulley. These hubs are manufactured from low Carbon steel for good welding compatibility.

QD WELD-ON HUBS FOR CONVEYOR PULLEYS

Hub No.	Part No.	For Bush.	Bore Range	Wt. Lbs.	Dimensions						Installation Screws	
					A	B	C #	D (ref)	E	F	Qty	Thread Size
SF	228110	SF	1/2 to 2-15/16"	3.9	5.00	1.00	4.750	3.13	0.44	3.88	3	3/8-16 NC x 2
E	228111	E	7/8 to 3-1/2"	6.6	6.25	1.13	6.000	3.52	0.50	5.00	3	1/2-13 NC x 2-1/4
F	228112	F	1 to 4"	9.3	7.00	1.25	6.750	4.44	0.56	5.63	3	9/16-12 NC x 3-5/8
JS	228113	J	1-1/2 to 4-1/2"	17	8.25	1.63	8.000	5.14	0.63	6.25	3	5/8-11 NC x 2-1/2
MS	228114	M	2 to 5-1/2"	22	9.50	2.38	9.250	6.50	0.75	7.88	4	3/4-10 NC-10 x 3
NS	228115	N	2-7/16 to 5-7/8"	29	10.25	2.38	10.000	7.00	0.81	8.50	4	7/8-9 NC x 3-1/2
PS	228116	P	2-15/16 to 7"	75	12.25	2.88	12.000	8.25	0.88	10.00	4	1-8 NC x 4-1/2
WS	228117	W	4 to 8-1/2"	85	15.25	3.33	14.875	10.42	0.94	12.75	4	1-1/8-7 NC x 5
SS	228118	S	5-1/2 to 10"	139	17.50	3.88	17.000	12.13	1.13	15.00	5	1-1/4-7 NC x 5
ZS	228119	Z	7 to 12"	236	22.00	4.88	21.500	15.98	1.25	19.00	5	1-1/8-7 NC x 5

+.000/- .010" Tolerance



GRIP TIGHT™ Bushing

Rockwell Automation proudly introduces a revolutionary new bushing system that will decrease maintenance costs and increase productivity and uptime. The 360° contact provides a secure fit onto the shaft, reduces vibration, eliminates shaft damage and makes the use of keys obsolete.



Features and Benefits:

- Concentric contact on shaft for better grip
- Less vibration
- Superior balanced system
- No keyways required
- No fretting corrosion
- Can be used with commercial shafting
- Reduction in material cost
- Easy on, reliable mounting
- Same bushing concept used in bearings, fan hubs, and sheaves

Possible Application:

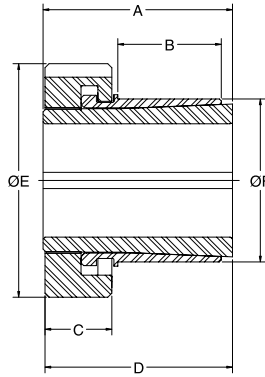
- Fan hubs
- Sheaves and sprockets
- Couplings



SPECIFICATION



GRIP TIGHT™ Bushings - Dimensions

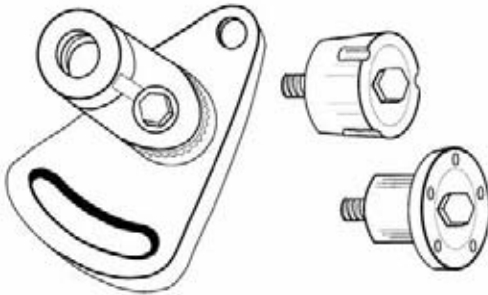


Shaft Size	Series	Part Number	A	B	C	D	E	F +.002/- .000	Recommended Housing Bore Tolerance	Locknut Rotation From Zero
1	205	111940	1.46	.80	.52	1.43	1.80	1.256	+ .0040" - 0	2/3 Turn
1-3/16	206	111941	1.61	.94	.53	1.58	2.00	1.445	+ .0040" - 0	2/3 Turn
1-7/16	207	111942	1.62	.98	.53	1.59	2.30	1.693	+ .0040" - 0	2/3 Turn
1-1/2	208	111943	1.84	1.12	.53	1.81	2.50	1.932	+ .0040" - 0	2/3 Turn
1-11/16	209	111944	1.85	1.15	.53	1.82	2.67	2.080	+ .0047" - 0	2/3 Turn
1-15/16	210	111945	1.86	1.16	.53	1.83	2.94	2.312	+ .0047" - 0	1 Turn
2-3/16	211	111946	1.93	1.23	.53	1.90	3.25	2.564	+ .0047" - 0	1 Turn
2-7/16	212	111947	2.12	1.33	.60	2.09	3.50	2.782	+ .0047" - 0	1 Turn
2-11/16	214	111948	2.39	1.59	.62	2.36	3.81	3.083	+ .0047" - 0	1 Turn
2-15/16	215	111949	2.56	1.66	.75	2.53	4.25	3.410	+ .0055" - 0	1 Turn





Idler Brackets and Bushings



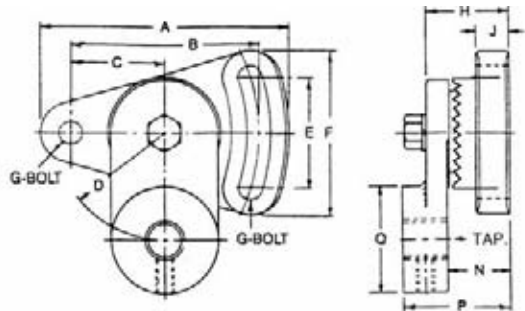
- Double Adjustable Bracket for Maximum Flexibility
- Positive Ratchet Locking Between Base and Arm
- Idler Bushings in TAPER-LOCK® and QD* Style
- Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets - Compatible with Products Machined for: TAPER-LOCK 1610, 2012 and 2517 Bushings QD SK, SF and E Bushings

*QD is a registered trademark of Emerson Electric.

BRACKET SPECS

		Model No.		
		5	10	20
Part Number		115982	115986	115987
WT.		3.40	3.40	13.50
DIM.	A	4.62	4.63	6.94
	B	3.50	3.50	5.25
	C	1.75	1.75	2.62
	D	2.00	2.00	5.00
DIM.	E	2.06	2.06	3.00
	F	3.06	3.06	4.56
	G	3/8	3/8	5/8
	H	1.63	1.63	2.38
DIM.	J	0.62	0.62	0.88
	N	1.16	1.16	1.63
	P	2.01	2.01	2.94
	Q	2.00	2.00	3.00
THD		5/8-18	3/4-16	1-14

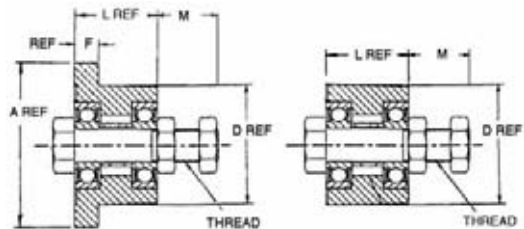
IDLER BRACKETS



BUSHING SPECS

Taper-Lock		1610-IDL	2012-IDL	2517-IDL
Part Number For Brkt No.		115985 5	115983 10	115984 10
DIM.	D	2.25	2.75	3.38
	L	1.00	1.25	1.75
	M	1.38	1.56	1.56
THD		5/8 -18	3/4-16	3/4-16
WT.		1.0	1.6	3.0
Bearings		6003	6204	6304

IDLER BUSHINGS



QD		SH-IDL	SD-IDL	SK-IDL	SK-IDL - Large	SF-IDL	E-IDL	E-IDL - Large
Part Number		15978	15979	115988	115980	115989	115990	424063
For Brkt No.		—	—	10	—	20	20	—
DIM.	A	2.63	3.18	3.88	3.88	4.63	6.0	6.00
	D	1.88	2.18	2.81	2.81	3.13	3.83	3.83
	F	0.43	0.43	.56	0.56	.63	.88	0.88
	L	1.31	1.81	1.94	1.94	2.08	2.75	2.75
	M	1.69	1.69	1.44	1.44	2.13	2.19	2.19
	Thd.	3/4-10	3/4-10	3/4-16	3/4-16	1-14	1-14	1-1/4 - 12
Wt.		2.1	2.5	2.8	2.8	5	8.6	12.5
Bearings		6004	6204	6304	6206	6206	6306	6307

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NOTES



TORQUE-TAMER

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NOTES



TORQUE-TAMER

Bushings

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TAPER-LOCK and QD Sheaves

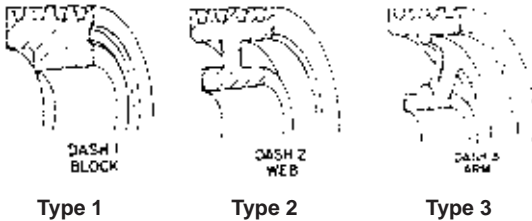


TAPER-LOCK Sheaves

QD Sheaves

Sheaves are manufactured in DODGE plants under strict quality control assurances. Precision machining meets or exceeds joint RMA/MPTA industry standards for smooth operation plus extended belt life. DODGE manufactures all sheaves in plants certified to ISO 9002 Quality Standards.

Sheave Construction



Type 1

Type 2

Type 3

DODGE stock sheaves are manufactured from high quality gray iron. They are given a corrosion-resistant finish before packaging and shipping. Sheave construction follows the general format illustrated above: smaller sheaves are of the block construction, intermediate sizes of the web type, and large sheaves of the arm-type construction.

Sheave Balance

Balance of stock sheaves is suitable for most applications up to a rim speed of 6500 FPM. Dynamic (two-plane) balance is available at extra charge for applications that are more sensitive to vibration. Dynamic balance is recommended for operation above 6500 FPM.

V-Drive Advantages

- Isolates shock loads and vibration.
- Misalignment capability.
- Drive ratios of 6:1 or more possible.
- Stock drive selections up to:
 - 1100 design HP at 1180 RPM
 - 800 design HP at 1770 RPM
- Low maintenance.
- No lubrication required.
- Quiet operation: Motors, etc. are normally at a higher db level than V-Drives.
- Efficiency of 95% is typical.

Computer Selection

For fast, accurate evaluation of viable V-Drive alternatives, use the DODGE VIA-VISA software program for your PC. Just type the required information on the user-friendly input screen and let the computer do the rest. All the significant data on the drive combinations is presented: Cost, RPM, shaft loading, installation tension, face width and diameter, etc. This is shown in a format that allows you to select the best drive for the application. See page PT7-123 for complete information on VIA-VISA.

WARNING

Stock sheaves are manufactured from gray iron, which is suitable for operation up to 6500 feet per minute rim speed (e.g. 14, max. dia. on a 1750 RPM motor). Operation above this rim speed may cause sheave failure resulting in personnel and/or equipment damage.

Refer to the Made-To-Order sheave section for constructions that are suitable for operation at higher rim speeds.

ARAMIDE CORD BELTS WARNING:

Because of the high horsepower rating of Aramide (Kevlar) cord belts, stock sheaves can not be used. Contact DODGE for made to order high capacity sheaves.



SELECTION/DIMENSIONS



TORQUE-TAMER

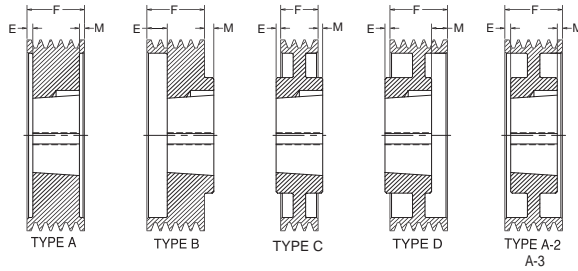
Bushings

V-Drives

FHP

Drives Component Accessories

3V TAPER-LOCK SHEAVES



1-Groove			F = **			
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
2.65	112124	1/3V2.65-1108	.75	A1	.06	0
2.8	112125	1/3V2.8-1108	.85	A1	.06	0
3.0	112126	1/3V3.0-1108	1.0	A1	.06	0
3.15	112127	1/3V3.15-1108	1.0	A1	.06	0
3.35	112175	1/3V3.35-1610	1.1	A1	.11	.05
3.65	112176	1/3V3.65-1610	1.3	A1	.11	.05
4.12	112177	1/3V4.12-1610	2.0	A1	.11	.05
4.5	112178	1/3V4.5-1610	2.3	A1	.11	.05
4.75	112179	1/3V4.75-1610	2.6	A1	.11	.05
5.0	112180	1/3V5.0-1610	2.9	A1	.11	.05
5.3	112181	1/3V5.3-1610	3.3	A1	.11	.05
5.6	112182	1/3V5.6-1610	3.7	A1	.11	.05
6.0	112183	1/3V6.0-1610	4.2	B1	0	.31
6.5	112184	1/3V6.5-1610	5.0	B1	0	.31
6.9	112185	1/3V6.9-1610	5.6	B1	0	.31
8.0	112008	1/3V8.0-2517	8.5	B1	0	1.06
10.6	112009	1/3V10.6-2517	14.0	B1	0	1.06
14.0	112010	1/3V14.0-2517	20.0	C3	0	.94
19.0	112011	1/3V19.0-3020	20.0	C3	0	.91

2-Groove			F = 1.09			
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
2.65	112128	2/3V2.65-1108	0.75	A1	.06	.13
2.8	112129	2/3V2.8-1108	0.90	A1	.06	.13
3.0	112186	2/3V3.0-1210	1.4	A1	.11	.05
3.15	112187	2/3V3.15-1210	1.0	A1	.11	.05
3.35	112188	2/3V3.35-1610	1.5	A1	.11	.05
3.65	112189	2/3V3.65-1610	1.6	A1	.11	.05
4.12	112190	2/3V4.12-1610	2.1	A1	.11	.05
4.5	112191	2/3V4.5-1610	2.7	A1	.11	.05
4.75	112192	2/3V4.75-1610	3.1	A1	.11	.05
5.0	112193	2/3V5.0-1610	3.6	A1	.11	.05
5.3	112194	2/3V5.3-1610	4.2	A1	0	.05
5.6	112195	2/3V5.6-1610	4.8	A1	0	.05
6.0	112196	2/3V6.0-1610	5.8	A1	.09	0
6.5	112197	2/3V6.5-1610	7.0	A1	.09	0
6.9	112198	2/3V6.9-1610	8.0	A1	0	.09
8.0	112023	2/3V8.0-2517	11.0	B1	0	.66
10.6	112024	2/3V10.6-2517	15.0	B1	0	.66
14.0	112025	2/3V14.0-2517	22.0	C3	0	.66
19.0	112026	2/3V19.0-3020	22.0	C3	0	.91
25.0	112027	2/3V25.0-3020	30.0	C3	.125	.78

3-Groove			F = 1.50			
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
2.65	112130	3/3V2.65-1108	1.0	A1	.06	.56
2.8	112131	3/3V2.8-1108	1.1	A1	.06	.56
3.0	112199	3/3V3.0-1210	1.8	A1	.11	.40
3.15	112200	3/3V3.15-1210	1.5	A1	.11	.40
3.35	112201	3/3V3.35-1610	1.8	A1	.11	.40
3.65	112202	3/3V3.65-1610	2.0	A1	.11	.40
4.12	112203	3/3V4.12-1610	2.6	A1	0	.50
4.5	112204	3/3V4.5-1610	3.2	A1	0	.50
4.75	112205	3/3V4.75-1610	3.7	A1	0	.50
5.0	112206	3/3V5.0-1610	4.2	A1	0	.50
5.3	112207	3/3V5.3-1610	4.8	A1	0	.50
5.6	112208	3/3V5.6-1610	5.5	A1	0	.50
6.0	112038	3/3V6.0-2517	7.4	B1	0	.25
6.5	112144	3/3V6.5-2517	9.1	B1	0	.25
6.9	112145	3/3V6.9-2517	10.0	B1	0	.25
8.0	112039	3/3V8.0-2517	15.0	B1	0	.25
10.6	112040	3/3V10.6-2517	18.0	C2	0	.25
14.0	112041	3/3V14.0-2517	25.0	C3	0	.25
19.0	112042	3/3V19.0-3020	34.0	C3	0	.50
25.0	112043	3/3V25.0-3020	36.0	C3	0	.50
33.5	112044	3/3V33.5-3020	53.0	C3	.25	.25

4-Groove			F = 1.90			
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
2.65	112132	4/3V2.65-1108	1.2	A1	.06	.97
2.8	112133	4/3V2.8-1108	1.3	A1	.06	.97
3.0	112209	4/3V3.0-1210	2.1	A1	.11	.80
3.15	112210	4/3V3.15-1210	1.9	A1	.11	.80
3.35	112211	4/3V3.35-1610	2.2	A1	.11	.80
3.65	112212	4/3V3.65-1610	2.0	A1	.11	.80
4.12	112213	4/3V4.12-1610	3.0	A1	0	.91
4.5	112214	4/3V4.5-1610	3.7	A1	0	.91
4.75	112215	4/3V4.75-1610	4.2	A1	0	.91
5.0	112216	4/3V5.0-1610	4.8	A1	0	.91
5.3	112217	4/3V5.3-1610	5.5	A1	0	.91
5.6	112218	4/3V5.6-1610	6.2	A1	0	.91
6.0	112053	4/3V6.0-2517	8.0	A1	0	.16
6.5	112150	4/3V6.5-2517	10.0	A1	0	.16
6.9	112151	4/3V6.9-2517	12.0	A1	0	.16
8.0	112054	4/3V8.0-2517	18.0	A1	0	.16
10.6	112055	4/3V10.6-2517	20.0	A2	0	.16
14.0	112056	4/3V14.0-2517	29.0	A3	0	.16
19.0	112275	4/3V19.0-3020	45.0	C3	0	.09
25.0	112276	4/3V25.0-3020	42.0	D3	.19	.09
33.5	112059	4/3V33.5-3030	73.0	C3	.55	.55

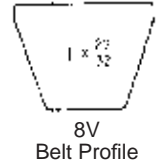
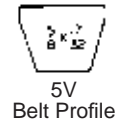
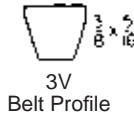
Δ Pitch diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

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3V TAPER-LOCK SHEAVES



5-Groove		F = 2.31				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
4.5	112102	5/3V4.5-1615	4.0	A1	0	.81
4.75	112103	5/3V4.75-2517	3.9	A1	.56	0
5.0	112061	5/3V5.0-2517	5.4	A1	.56	0
5.30	112062	5/3V5.3-2517	6.7	A1	.56	0
5.6	112063	5/3V5.6-2517	7.6	A1	.56	0
6.0	112064	5/3V6.0-2517	11.0	A1	.56	0
6.5	112152	5/3V6.5-2517	11.0	A1	0	.56
6.9	112153	5/3V6.9-2517	14.0	A1	0	.56
8.0	112065	5/3V8.0-2517	20.0	A1	0	.56
10.6	112066	5/3V10.6-2517	27.0	A1	0	.56
14.0	112067	5/3V14.0-2517	29.0	A3	0	.56
19.0	112277	5/3V19.0-3020	51.0	A3	0	.31
25.0	112069	5/3V25.0-3030	58.0	C3	0	.69
33.5	112070	5/3V33.5-3030	82.0	C3	.34	.34

6-Groove		F = 2.71				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
4.75	112071	6/3V4.75-2517	4.4	A1	.97	0
5.0	112072	6/3V5.0-2517	5.4	A1	.97	0
5.3	112073	6/3V5.3-2517	6.5	A1	.97	0
5.6	112074	6/3V5.6-2517	7.7	A1	.97	0
6.0	112075	6/3V6.0-2517	9.5	A1	0	.97
6.5	112154	6/3V6.5-2517	12.0	A1	0	.97
6.9	112155	6/3V6.9-2517	13.0	A1	0	.97
8.0	112076	6/3V8.0-2517	20.0	A1	0	.97
10.6	112077	6/3V10.6-2517	29.0	A2	0	.97
14.0	112078	6/3V14.0-2517	41.0	A3	.22	.75
19.0	112278	6/3V19.0-3020	51.0	A3	0	.72
25.0	112080	6/3V25.0-3030	72.0	C3	0	.28
33.5	112081	6/3V33.5-3030	92.0	C3	.14	.14

8-Groove		F = 3.53				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
4.75	112082	8/3V4.75-2517	5.8	A1	1.78	0
5.0	112083	8/3V5.0-2517	6.4	A1	1.78	0
5.3	112084	8/3V5.3-2517	7.8	A1	1.03	.75
5.6	112085	8/3V5.6-2517	9.2	A1	.25	1.53
6.0	112086	8/3V6.0-2517	11.0	A1	.25	1.53
6.5	112156	8/3V6.5-2517	14.0	A1	.25	1.53
6.9	112157	8/3V6.9-2517	16.0	A1	.25	1.53
8.0	112087	8/3V8.0-3020	22.0	A1	.50	1.03
10.6	112088	8/3V10.6-3020	28.0	A2	.50	1.03
14.0	112279	8/3V14.0-3020	52.0	A3	.65	.87
19.0	112090	8/3V19.0-3535	67.0	A3	0	.03
25.0	112091	8/3V25.0-3535	75.0	A3	0	.03
33.5	112092	8/3V33.5-4040	111.0	C3	.23	.23

10-Groove		F = 4.34				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
4.75	112093	10/3V4.75-2517	7.1	A1	2.59	0
5.0	112094	10/3V5.0-2517	8.2	A1	2.59	0
5.3	112158	10/3V5.3-2517	9.3	A1	1.84	.75
5.6	112159	10/3V5.6-2517	10.0	A1	.50	2.09
6.0	112095	10/3V6.0-2517	13.0	A1	.50	2.09
6.5	112160	10/3V6.5-2517	15.0	A1	.50	2.09
6.9	112161	10/3V6.9-2517	18.0	A1	.81	1.78
8.0	112096	10/3V8.0-3020	25.0	A1	.25	2.09
10.6	112097	10/3V10.6-3020	39.0	A1	.84	1.50
14.0	112098	10/3V14.0-3535	57.0	A3	0	.84
19.0	112099	10/3V19.0-3535	81.0	A3	0	.84
25.0	112100	10/3V25.0-4040	88.0	A3	0	.34
33.5	112101	10/3V33.5-4040	128.0	A3	.17	.17

Δ Pitch diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.



SELECTION/DIMENSIONS



5V TAPER-LOCK SHEAVES

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

2-Groove		F = 1.68					
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
4.4++	111200	2/5V4.4-1610	3.0	A1	.06	.62	
4.65++	111201	2/5V4.65-1610	3.0	A1	.06	.62	
4.9++	111202	2/5V4.9-1610	4.0	A1	.06	.62	
5.2++	111203	2/5V5.2-1610	4.0	A1	.06	.62	
5.5++	111255	2/5V5.5-1610	5.0	A1	.06	.62	
5.9++	111204	2/5V5.9-1610	6.0	A1	.06	.62	
6.3++	111205	2/5V6.3-1610	7.0	A1	0	.68	
6.7++	111206	2/5V6.7-1610	9.0	A1	0	.68	
7.1	111132	2/5V7.1-2517	10.0	B1	0	.06	
7.5	111133	2/5V7.5-2517	12.0	B1	0	.06	
8.0	111134	2/5V8.0-2517	14.0	B1	0	.06	
8.5	111135	2/5V8.5-2517	13.0	C2	0	.06	
9.0	111136	2/5V9.0-2517	16.0	C2	0	.06	
9.25	111137	2/5V9.25-3020	17.0	B1	0	.31	
9.75	111138	2/5V9.75-3020	19.0	B1	0	.31	
10.3	111139	2/5V10.3-3020	22.0	C2	0	.31	
10.9	111140	2/5V10.9-3020	24.0	C2	0	.31	
11.3	111207	2/5V11.3-3020	25.0	C2	0	.31	
11.8	111141	2/5V11.8-3020	26.0	C2	0	.31	
12.5	111142	2/5V12.5-3020	28.0	C2	0	.31	
13.2	111143	2/5V13.2-3020	21.0	C3	0	.31	
14.0	111144	2/5V14.0-3020	23.0	C3	0	.31	
15.0	111145	2/5V15.0-3020	26.0	C3	0	.31	
16.0	111146	2/5V16.0-3020	28.0	C3	0	.31	
18.7	111208	2/5V18.7-3020	40.0	C3	0	.31	
21.2	111147	2/5V21.2-3535	45.0	C3	.37	1.44	
23.6	111209	2/5V23.6-3535	56.0	C3	.25	1.56	
28.0	111148	2/5V28.0-3535	68.0	C3	.37	1.43	

4-Groove		F = 3.06					
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
4.4++	111221	4/5V4.4-1610	6.0	A1	2.06	0	
4.65++	111222	4/5V4.65-1610	6.0	A1	2.06	0	
4.9++	111223	4/5V4.9-1610	6.0	A1	2.06	0	
5.2++	111224	4/5V5.2-1610	7.0	A1	2.06	0	
5.5++	111225	4/5V5.5-2517	8.0	A1	1.31	0	
5.9++	111226	4/5V5.9-2517	10.0	A1	1.31	0	
6.3++	111227	4/5V6.3-2517	11.0	A1	0	1.31	
6.7++	111228	4/5V6.7-2517	12.0	A1	0	1.31	
7.1	111020	4/5V7.1-2517	15.0	A1	0	1.31	
7.5	111021	4/5V7.5-2517	18.0	A1	0	1.31	
8.0	111022	4/5V8.0-2517	21.0	A1	0	1.31	
8.5	111023	4/5V8.5-2517	20.0	A1	0	1.31	
9.0	111035	4/5V9.0-2517	22.0	A1	0	1.31	
9.25	111104	4/5V9.25-3020	27.0	A1	0	1.06	
9.75	111105	4/5V9.75-3020	31.0	A1	0	1.06	
10.3	111106	4/5V10.3-3020	28.0	A1	0	1.06	
10.9	111107	4/5V10.9-3020	31.0	A1	0	1.06	
11.3	111229	4/5V11.3-3020	32.0	A1	0	1.06	
11.8	111025	4/5V11.8-3020	34.0	A2	0	1.06	
12.5	112280	4/5V12.5-3020	40.0	A2	0	1.06	
13.2	112281	4/5V13.2-3020	42.0	A3	0	1.06	
14.0	111028	4/5V14.0-3535	48.0	C2	.43	0	
15.0	111029	4/5V15.0-3535	52.0	C3	.43	0	
16.0	111030	4/5V16.0-3535	53.0	C3	.43	0	
18.7	111230	4/5V18.7-3535	63.0	C3	.43	0	
21.2	111031	4/5V21.2-3535	70.0	C3	0	.43	
23.6	111231	4/5V23.6-3535	79.0	C3	0	.43	
28.0	111032	4/5V28.0-3535	98.0	C3	0	.43	
31.5	111232	4/5V31.5-3535	114.0	C3	0	.43	
37.5	111033	4/5V37.5-4040	148.0	C3	0	.93	
50.0	111034	4/5V50.0-4040	243.0	C3	0	.93	

3-Groove		F = 2.37					
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
4.4++	111210	3/5V4.4-1610	4.0	A1	1.38	0	
4.65++	111211	3/5V4.65-1610	5.0	A1	.06	1.31	
4.9++	111212	3/5V4.9-1610	5.0	A1	.06	1.31	
5.2++	111213	3/5V5.2-1610	6.0	A1	.06	1.31	
5.5++	111256	3/5V5.5-1610	6.0	A1	.06	1.31	
5.9++	111214	3/5V5.9-2517	7.0	A1	0	.62	
6.3++	111215	3/5V6.3-2517	9.0	A1	0	.62	
6.7++	111216	3/5V6.7-2517	10.0	A1	0	.62	
7.1	111001	3/5V7.1-2517	13.0	A1	0	.62	
7.5	111002	3/5V7.5-2517	15.0	A1	0	.62	
8.0	111003	3/5V8.0-2517	18.0	A1	0	.62	
8.5	111004	3/5V8.5-2517	20.0	A1	0	.62	
9.0	111005	3/5V9.0-2517	20.0	A1	0	.62	
9.25	111099	3/5V9.25-3020	21.0	A1	0	.37	
9.75	111100	3/5V9.75-3020	24.0	A2	0	.37	
10.3	111101	3/5V10.3-3020	25.0	A2	0	.37	
10.9	111102	3/5V10.9-3020	27.0	A2	0	.37	
11.3	111217	3/5V11.3-3020	28.0	A2	0	.37	
11.8	111006	3/5V11.8-3020	29.0	A2	0	.37	
12.5	111103	3/5V12.5-3020	32.0	A2	0	.37	
13.2	111007	3/5V13.2-3020	34.0	A3	0	.37	
14.0	111008	3/5V14.0-3020	36.0	A3	0	.37	
15.0	111009	3/5V15.0-3020	36.0	A3	0	.37	
16.0	111010	3/5V16.0-3020	38.0	A3	0	.37	
18.7	111218	3/5V18.7-3020	52.0	A3	0	.37	
21.2	111011	3/5V21.2-3535	60.0	C3	0	1.12	
23.6	111219	3/5V23.6-3535	68.0	C3	0	1.12	
28.0	111012	3/5V28.0-3535	83.0	C3	0	1.12	
31.5	111220	3/5V31.5-3535	96.0	C3	.34	.78	
37.5	111013	3/5V37.5-4040	124.0	C3	.50	1.12	
50.0	111014	3/5V50.0-4040	186.0	C3	.50	1.12	

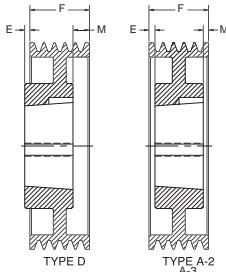
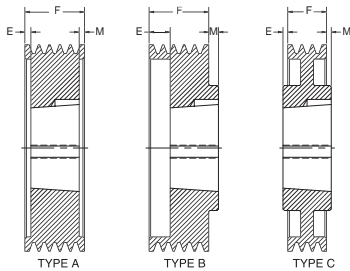
5-Groove		F = 3.75					
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
5.9++	111233	5/5V5.9-2517	11.0	A1	.56	1.43	
6.3++	111234	5/5V6.3-2517	12.0	A1	.56	1.43	
6.7++	111235	5/5V6.7-2517	13.0	A1	.56	1.43	
7.1	111038	5/5V7.1-3020	16.0	A1	.50	1.25	
7.5	111039	5/5V7.5-3020	19.0	A1	.50	1.25	
8.0	111040	5/5V8.0-3020	22.0	A1	.50	1.25	
8.5	111041	5/5V8.5-3020	26.0	A1	.50	1.25	
9.0	111042	5/5V9.0-3020	30.0	A1	.50	1.25	
9.25	111108	5/5V9.25-3020	31.0	A1	.50	1.25	
9.75	111109	5/5V9.75-3020	36.0	A1	.50	1.25	
10.3	111110	5/5V10.3-3020	33.0	A1	.50	1.25	
10.9	111111	5/5V10.9-3020	36.0	A1	.50	1.25	
11.3	111236	5/5V11.3-3020	38.0	A1	.50	1.25	
11.8	111043	5/5V11.8-3020	40.0	A2	.50	1.25	
12.5	111044	5/5V12.5-3535	54.0	A2	0	.25	
13.2	111045	5/5V13.2-3535	57.0	A2	0	.25	
14.0	111046	5/5V14.0-3535	57.0	A3	0	.25	
15.0	111047	5/5V15.0-3535	65.0	A3	0	.25	
16.0	111048	5/5V16.0-3535	70.0	A3	0	.25	
18.7	111237	5/5V18.7-3535	84.0	A3	0	.25	
21.2	111049	5/5V21.2-4040	81.0	C3	0	.25	
23.6	111238	5/5V23.6-4040	92.0	C3	0	.25	
28.0	111050	5/5V28.0-4040	115.0	C3	0	.25	
31.5	111239	5/5V31.5-4040	155.0	C3	0	.25	
37.5	111051	5/5V37.5-4040	190.0	C3	0	.25	
50.0	111052	5/5V50.0-4545	280.0	C3	0	.75	

Δ Pitch diameter = O.D. - .10"
 ‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-3.
 ++ 5VX Belts only on these sizes.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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5V TAPER-LOCK SHEAVES



6-Groove						F = 4.43
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
5.9++	111240	6/5V5.9-2517	13.0	A1	1.12	1.56
6.3++	111241	6/5V6.3-2517	13.0	A1	.81	1.87
6.7++	111242	6/5V6.7-2517	15.0	A1	.81	1.87
7.1	111056	6/5V7.1-3020	18.0	A1	.75	1.68
7.5	111057	6/5V7.5-3020	21.0	A1	.75	1.68
8.0	111058	6/5V8.0-3020	24.0	A1	.75	1.68
8.5	111059	6/5V8.5-3020	28.0	A1	.75	1.68
9.0	111060	6/5V9.0-3020	32.0	A1	.75	1.68
9.25	111112	6/5V9.25-3535	41.0	A1	0	.93
9.75	111113	6/5V9.75-3535	48.0	A1	0	.93
10.3	111114	6/5V10.3-3535	56.0	A1	0	.93
10.9	111115	6/5V10.9-3535	65.0	A1	0	.93
11.3	111243	6/5V11.3-3535	53.0	A1	0	.93
11.8	111061	6/5V11.8-3535	59.0	A2	0	.93
12.5	111062	6/5V12.5-3535	59.0	A2	0	.93
13.2	111063	6/5V13.2-3535	67.0	A2	0	.93
14.0	111064	6/5V14.0-3535	67.0	A2	0	.93
15.0	111065	6/5V15.0-4040	82.0	A2	0	.43
16.0	111066	6/5B16.0-4040	84.0	A2	0	.43
18.7	111244	6/5V18.7-4040	97.0	A2	0	.43
21.2	111067	6/5V21.2-4040	91.0	A3	0	.43
23.6	111245	6/5V23.6-4040	124.0	A3	0	.43
28.0	111068	6/5V28.0-4040	149.0	A3	0	.43
31.5	111246	6/5V31.5-4040	171.0	A3	0	.43
37.5	111069	6/5V37.5-4545	214.0	C3	0	.06
50.0	111070	6/5V50.0-4545	336.0	D3	.50	.56

8-Groove						F = 5.81
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.1	111075	8/5V7.1-3030	24.0	A1	1.00	1.81
7.5	111076	8/5V7.5-3030	28.0	A1	1.00	1.81
8.0	111077	8/5V8.0-3030	33.0	A1	1.00	1.81
8.5	111078	8/5V8.5-3030	38.0	A1	1.00	1.81
9.0	111079	8/5V9.0-3535	44.0	A1	1.00	1.31
9.25	111116	8/5V9.25-3535	45.0	A1	1.00	1.31
9.75	111117	8/5V9.75-3535	51.0	A1	1.00	1.31
10.3	111118	8/5V10.3-3535	60.0	A1	1.00	1.31
10.9	111119	8/5V10.9-3535	68.0	A1	1.00	1.31
11.3	111247	8/5V11.3-3535	57.0	A1	1.00	1.31
11.8	111080	8/5V11.8-3535	63.0	A1	1.00	1.31
12.5	111081	8/5V12.5-4040	102.0	A1	.25	1.56
13.2	111082	8/5V13.2-4040	82.0	A1	.25	1.56
14.0	111083	8/5V14.0-4040	87.0	A1	.25	1.56
15.0	111084	8/5V15.0-4040	97.0	A2	.25	1.56
16.0	111085	8/5V16.0-4040	102.0	A2	.25	1.56
18.7	111248	8/5V18.7-4040	112.0	A3	.25	1.56
21.2	111086	8/5V21.2-4040	129.0	A3	.25	1.56
23.6	111249	8/5V23.6-4040	145.0	A3	.25	1.56
28.0	111087	8/5V28.0-4545	178.0	A3	.25	1.06
31.5	111250	8/5V31.5-4545	228.0	A3	.25	1.06
37.5	111088	8/5V37.5-4545	279.0	A3	.25	1.06
50.0	111089	8/5V50.0-4545	403.0	A3	.25	1.06

10-Groove						F = 7.18
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
8.0	111120	10/5V8.0-3030	36.0	A1	1.00	3.18
8.5	111121	10/5V8.5-3030	42.0	A1	1.00	3.18
9.0	111122	10/5V9.0-3535	47.0	A1	1.00	2.68
9.25	111123	10/5V9.25-4040	46.0	A1	1.00	2.18
9.75	111124	10/5V9.75-4040	54.0	A1	1.00	2.18
10.3	111125	10/5V10.3-4040	64.0	A1	1.00	2.18
10.9	111126	10/5V10.9-4040	73.0	A1	1.00	2.18
11.3	111251	10/5V11.3-4040	80.0	A1	1.00	2.18
11.8	111127	10/5V11.8-4040	92.0	A1	1.00	2.18
12.5	111090	10/5V12.5-4040	107.0	A1	.38	2.81
13.2	111091	10/5V13.2-4040	107.0	A1	.38	2.81
14.0	111092	10/5V14.0-4545	106.0	A1	.75	1.93
15.0	111093	10/5V15.0-4545	116.0	A1	.69	2.00
16.0	111094	10/5V16.0-4545	126.0	A2	0	2.68
18.7	111252	10/5V18.7-4545	116.0	A2	.50	2.18
21.2	111095	10/5V21.2-4545	149.0	D3	.50	3.18
23.6	111253	10/5V23.6-4545	191.0	A3	.50	2.18
28.0	111096	10/5V28.0-4545	227.0	A3	.75	1.93
31.5	111254	10/5V31.5-4545	259.0	A3	.75	1.93
37.5	111097	10/5V37.5-4545	320.0	A3	.75	1.93
50.0	111098	10/5V50.0-5050	471.0	A3	.75	1.43

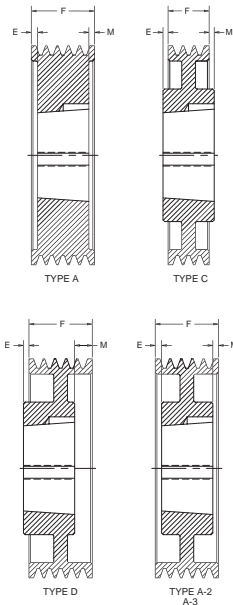
Δ Pitch diameter = O.D. - .10"
 ‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.
 ++ 5VX Belts only on these sizes.



SELECTION/DIMENSIONS



8V TAPER-LOCK SHEAVES



4-Groove					F = 4.87	
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
12.5	110003	4/8V12.5-4040	83.0	A1	0	.87
13.2	110008	4/8V13.2-4040	125.0	A2	0	.87
14.0	110950	4/8V14.0-4040	88.0	A2	0	.87
15.0	110951	4/8V15.0-4040	111.0	A2	.50	.37
16.0	110952	4/8V16.0-4040	105.0	A2	.44	.44
17.0	110953	4/8V17.0-4040	150.0	A2	0	.87
18.0	110954	4/8V18.0-4040	150.0	A2	0	.87
19.0	110955	4/8V19.0-4040	146.0	A2	0	.87
20.0	110015	4/8V20.0-4545	145.0	A2	0	.37
21.2	110016	4/8V21.2-4545	138.0	A2	0	.37
22.4	110004	4/8V22.4-4545	147.0	A2	0	.37
24.8	110681	4/8V24.8-5050	191.0	D3	.94	.81
30.0	110957	4/8V30.0-5050	233.0	D3	1.12	1.00
35.5	110900	4/8V35.5-5050	278.0	D3	1.12	1.00
40.0	110006	4/8V40.0-5050	324.0	D3	1.12	1.00
44.5	110002	4/8V44.5-5050	367.0	D3	.25	.12
53.0	110007	4/8V53.0-5050	469.0	B3	1.12	1.25

5-Groove					F = 6.00	
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
12.5	110958	5/8V12.5-4040	96.0	A2	.18	1.81
13.2	110959	5/8V13.2-4040	100.0	A2	.18	1.81
14.0	110960	5/8V14.0-4040	107.0	A2	.18	1.81
15.0	110961	5/8V15.0-4040	106.0	A2	.18	1.81
16.0	110962	5/8V16.0-4040	110.0	A2	.50	1.50
17.0	110023	5/8V17.0-4545	120.0	A3	0	1.50
18.0	110024	5/8V18.0-4545	180.0	A3	0	1.50
19.0	110025	5/8V19.0-4545	200.0	A3	0	1.50
20.0	110026	5/8V20.0-4545	145.0	A3	0	1.50
21.2	110027	5/8V21.2-4545	185.0	A3	0	1.50
22.4	110028	5/8V22.4-4545	176.0	A3	0	1.50
24.8	110682	5/8V24.8-5050	206.0	A3	0	1.50
30.0	110029	5/8V30.0-5050	319.0	D3	.62	1.62
35.5	110046	5/8V35.5-5050	399.0	A3	0	1.00
40.0	110017	5/8V40.0-5050	350.0	A3	0	1.00
44.5	110047	5/8V44.5-5050	572.0	A3	0	1.00
53.0	110018	5/8V53.0-5050	565.0	A3	0	1.00

6-Groove					F = 7.12	
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
12.5	110964	6/8V12.5-4040	98.0	A1	1.00	2.12
13.2	110965	6/8V13.2-4040	114.0	A2	1.00	2.12
14.0	110966	6/8V14.0-4040	134.0	A2	1.00	2.12
15.0	110033	6/8V15.0-4545	146.0	A2	.50	2.12
16.0	110034	6/8V16.0-4545	140.0	A2	.12	2.50
17.0	110035	6/8V17.0-4545	143.0	A2	.50	2.12
18.0	110036	6/8V18.0-4545	164.0	A2	.50	2.12
19.0	110037	6/8V19.0-4545	166.0	A3	.50	2.12
20.0	110967	6/8V20.0-5050	144.0	D3	1.31	3.43
21.2	110968	6/8V21.2-5050	201.0	A3	.19	1.94
22.4	110969	6/8V22.4-5050	212.0	D3	1.13	3.25
24.8	110683	6/8V24.8-5050	236.0	D3	.13	2.25
30.0	110041	6/8V30.0-5050	292.0	A3	.06	2.06
35.5	110049	6/8V35.5-5050	363.0	A3	.50	1.62
40.0	110042	6/8V40.0-5050	423.0	A3	.50	1.62
44.5	110064	6/8V44.5-5050	485.0	A3	.50	1.62
53.0	110043	6/8V53.0-5050	621.0	A3	.50	1.62

Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-3.

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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8V TAPER-LOCK SHEAVES

8-Groove							F = 9.37
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
12.5	110050	8/8V12.5-4545	150.0	A1	1.50	3.37	
13.2	110051	8/8V13.2-4545	141.0	A2	1.50	3.37	
14.0	110052	8/8V14.0-4545	160.0	A2	1.50	3.37	
15.0	110053	8/8V15.0-4545	185.0	A2	1.50	3.37	
16.0	110054	8/8V16.0-4545	168.0	A2	1.50	3.37	
17.0	110971	8/8V17.0-5050	179.0	A2	.18	4.18	
18.0	110056	8/8V18.0-5050	204.0	A2	.18	4.18	
19.0	110057	8/8V19.0-5050	223.0	A2	.18	4.18	
20.0	110058	8/8V20.0-5050	178.0	A2	.18	4.18	
21.2	110059	8/8V21.2-5050	192.0	A3	.18	4.18	
22.4	110060	8/8V22.4-5050	249.0	A3	.18	4.18	
24.8	110065	8/8V24.8-5050	285.0	A3	2.12	2.25	
30.0	110061	8/8V30.0-5050	356.0	A3	1.18	3.18	
35.5	110066	8/8V35.5-5050	441.0	A3	1.00	3.37	
40.0	110062	8/8V40.0-5050	517.0	A3	1.00	3.37	
44.5	110973	8/8V44.5-6050	596.0	A3	1.00	3.37	
53.0	110974	8/8V53.0-6050	759.0	A3	1.00	3.37	

10-Groove							F = 11.62
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
12.5	---	10/8V12.5-4545	---	A1	2.06	5.06	
13.2	110071	10/8V13.2-4545	150.0	A1	2.06	5.06	
14.0	110072	10/8V14.0-4545	175.0	A2	2.06	5.06	
15.0	110073	10/8V15.0-5050	175.0	A2	1.31	4.68	
16.0	110074	10/8V16.0-5050	200.0	A2	2.18	4.43	
17.0	110075	10/8V17.0-5050	210.0	A2	2.25	4.37	
18.0	110076	10/8V18.0-5050	220.0	A2	2.25	4.37	
19.0	110077	10/8V19.0-5050	240.0	A3	2.25	4.37	
20.0	110078	10/8V20.0-5050	211.0	A3	2.25	4.37	
21.2	110079	10/8V21.2-5050	270.0	A3	2.50	4.12	
22.4	110080	10/8V22.4-5050	291.0	A3	2.25	4.37	
24.8	110068	10/8V24.8-5050	328.0	A3	2.37	4.25	
30.0	110081	10/8V30.0-5050	416.0	A3	2.25	4.37	
35.5	110976	10/8V35.5-6050	517.0	A3	2.25	4.37	
40.0	110977	10/8V40.0-6050	606.0	A3	2.25	4.37	
44.5	110978	10/8V44.5-6050	701.0	A3	2.25	4.37	
53.0	110979	10/8V53.0-6050	898.0	A3	2.25	4.37	

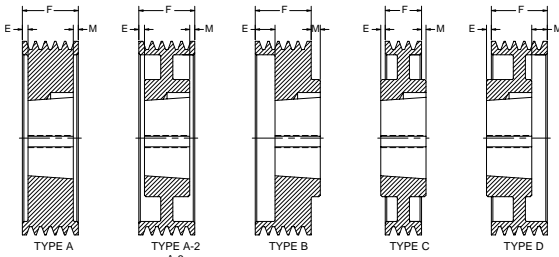
12-Groove							F = 13.87
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M	
12.5	110980	12/8V12.5-5050	153.0	A1	3.18	5.68	
13.2	110981	12/8V13.2-5050	180.0	A1	3.00	5.87	
14.0	110982	12/8V14.0-5050	186.0	A1	3.18	5.68	
15.0	110983	12/8V15.0-5050	221.0	A2	1.88	7.00	
16.0	110984	12/8V16.0-5050	247.0	A2	1.88	7.00	
17.0	110985	12/8V17.0-5050	267.0	A2	3.50	5.38	
18.0	110986	12/8V18.0-5050	274.0	A2	3.53	5.34	
19.0	110987	12/8V19.0-5050	306.0	A2	2.25	6.62	
20.0	110988	12/8V20.0-5050	249.0	A3	2.25	6.62	
21.2	110989	12/8V21.2-5050	294.0	A3	2.25	6.62	
22.4	110990	12/8V22.4-5050	337.0	A3	2.25	6.62	
24.8	110991	12/8V24.8-5050	380.0	A3	5.37	3.50	
30.0	110992	12/8V30.0-6050	482.0	A3	4.00	4.87	
35.5	110993	12/8V35.5-6050	597.0	A3	4.00	4.87	
40.0	110994	12/8V40.0-6050	702.0	A3	4.00	4.87	
44.5	110995	12/8V44.5-6050	814.0	A3	4.00	4.87	
53.0	110996	12/8V53.0-7060	1077.0	A3	5.00	2.87	

Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-3.



A/B TAPER-LOCK SHEAVES



Drawing illustrates how either A or B belts may be used with Dual Duty groove sheaves.

1-Groove		F = **.75		F = **.50		
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
3.75	118190	1A3.0B3.4-1210	1.5	A1	.11	.04
3.95	118191	1A3.2B3.6-1210	1.7	A1	.11	.04
4.15	118301	1A3.4B3.8-1610	1.5	A1	.11	.04
4.35	118302	1A3.6B4.0-1610	1.9	A1	.11	.04
4.55	118194	1A3.8B4.2-1610	2.2	A1	.11	.04
4.75	118195	1A4.0B4.4-1610	2.5	A1	.11	.04
4.95	118196	1A4.2B4.6-1610	2.9	A1	.11	.04
5.15	118197	1A4.4B4.8-1610	3.3	A1	.11	.04
5.35	118198	1A4.6B5.0-1610	3.6	A1	.11	.04
5.55	118199	1A4.8B5.2-1610	4.1	A1	.11	.04
5.75	118200	1A5.0B5.4-1610	4.5	A1	.11	.04
5.95	118201	1A5.2B5.6-1610	4.9	A1	0	0
6.15	118202	1A5.4B5.8-1610	5.3	A1	0	0
6.35	118203	1A5.6B6.0-1610	5.8	A1	0	0
6.55	118204	1A5.8B6.2-1610	6.3	A1	0	0
6.75	118205	1A6.0B6.4-1610	6.8	A1	0	0
6.95	118206	1A6.2B6.6-1610	7.5	A1	0	0
7.15	118207	1A6.4B6.8-1610	7.8	A1	0	0
7.35	118340	1A6.6B7.0-2517	8.5	B1	0	.75
7.75	118303	1A7.0B7.4-2517	9.4	B1	0	.75
8.35	118341	1A7.6B8.0-2517	11.0	B1	0	.75
8.95	118304	1A8.2B8.6-2517	12.0	B1	0	.75
9.75	118305	1A9.0B9.4-2517	14.0	B1	0	.75
11.35	118022	1A10.6B11.0-2517	15.0	B1	0	.75
12.75	118023	1A12.0B12.4-2517	114.0	C3	.25	.50
13.95	118342	1A13.2B13.6-2517	16.0	C3	.25	.50
15.75	118024	1A15.0B15.4-2517	18.0	C3	.38	.38
16.35	118343	1A15.6B16.0-2517	22.0	C3	.38	.38
18.75	118025	1A18.0B18.4-2517	27.0	C3	.18	.43

Δ P.D. for "A" Belts = O.D. - .37"
P.D. for "B" Belts = O.D. + .01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-3.

** 1.16" for 1A3.0B3.4 thru 1A4.4B4.8
1.05" for 1A4.6B5.0 thru 1A5.0B5.4
1.13" for 1A15.6B16.0 thru 1A18.0B18.4

2-Groove		F = 1.75		F = 1.50		
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
3.75	118211	2A3.0B3.4-1210	2.2	A1	.10	.65
3.95	118212	2A3.2B3.6-1210	2.6	A1	.10	.65
4.15	118306	2A3.4B3.8-1610	2.5	A1	0	.75
4.35	118307	2A3.6B4.0-1610	2.9	A1	0	.75
4.55	118215	2A3.8B4.2-1610	3.3	A1	0	.75
4.75	118216	2A4.0B4.4-1610	3.7	A1	0	.75
4.95	118217	2A4.2B4.6-1610	4.2	A1	0	.75
5.15	118218	2A4.4B4.8-1610	4.1	A1	0	.75
5.35	118219	2A4.6B5.0-1610	5.0	A1	0	.75
5.55	118220	2A4.8B5.2-1610	5.5	A1	0	.75
5.75	118221	2A5.0B5.4-1610	5.9	A1	0	.75
5.95	118222	2A5.2B5.6-1610	6.5	A1	0	.75
6.15	118223	2A5.4B5.8-1610	6.9	A1	0	.75
6.35	118224	2A5.6B6.0-1610	7.6	A1	0	.75
6.55	118225	2A5.8B6.2-1610	8.2	A1	0	.75
6.75	118226	2A6.0B6.4-1610	8.6	A1	0	.75
6.95	118227	2A6.2B6.6-1610	9.5	A1	0	.75
7.15	118228	2A6.4B6.8-1610	9.8	A1	0	.75
7.35	118344	2A6.6B7.0-2517	14.0	A1	0	0
7.75	118044	2A7.0B7.4-2517	14.0	A1	0	0
8.35	118345	2A7.6B8.0-2517	15.0	C2	0	0
8.95	118045	2A8.2B8.6-2517	15.0	C2	0	0
9.75	118046	2A9.0B9.4-2517	18.0	C2	0	0
11.35	118047	2A10.6B11.0-2517	25.0	C2	0	0
12.75	118048	2A12.0B12.4-2517	18.0	C3	0	0
13.95	118346	2A13.2B13.6-2517	24.0	C3	0	0
15.75	118049	2A15.0B15.4-2517	24.0	C3	0	0
16.35	118347	2A15.6B16.0-2517	26.0	C3	0	0
18.75	118050	2A18.0B18.4-2517	33.0	C3	0	0
20.35	114068	2B20.0-3020	31.0	C3	0	.25
25.35	114069	2B25.0-3020	41.0	C3	0	.25
30.35	114070	2B30.0-3020	52.0	C3	0	.25
38.35	114071	2B38.0-3020	71.0	C3	0	.25



SELECTION/DIMENSIONS



A/B TAPER-LOCK SHEAVES

3-Groove			F = 2.50			
O.D.Δ	Part No.	Description	Wt.	Type†	E	M
3.75	118229	3A3.0B3.4-1210	3.0	A1	0	1.50
3.95	118230	3A3.2B3.6-1210	3.5	A1	0	1.50
4.15	118308	3A3.4B3.8-1610	3.4	A1	0	1.50
4.35	118309	3A3.6B4.0-1610	4.0	A1	0	1.50
4.55	118233	3A3.8B4.2-1610	4.6	A1	0	1.50
4.75	118234	3A4.0B4.4-1610	4.9	A1	0	1.50
4.95	118235	3A4.2B4.6-1610	5.4	A1	0	1.50
5.15	118310	3A4.4B4.8-1610	5.9	A1	0	1.50
5.35	118311	3A4.6B5.0-1610	6.4	A1	0	1.50
5.55	118312	3A4.8B5.2-1610	7.0	A1	0	1.50
5.75	118313	3A5.0B5.4-2517	7.8	A1	.75	0
5.95	118314	3A5.2B5.6-2517	8.2	A1	.75	0
6.15	118315	3A5.4B5.8-2517	8.9	A1	.75	0
6.35	118316	3A5.6B6.0-2517	9.8	A1	.75	0
6.55	118317	3A5.8B6.2-2517	11.0	A1	0	.75
6.75	118318	3A6.0B6.4-2517	12.0	A1	0	.75
6.95	118319	3A6.2B6.6-2517	13.0	A1	0	.75
7.15	118320	3A6.4B6.8-2517	14.0	A1	0	.75
7.35	118348	3A6.6B7.0-2517	15.0	A1	0	.75
7.75	118069	3A7.0B7.4-2517	17.0	A1	0	.75
8.35	118349	3A7.6B8.0-2517	19.0	A1	0	.75
8.95	118070	3A8.2B8.6-2517	19.0	A1	0	.75
9.75	118071	3A9.0B9.4-2517	21.0	A2	0	.75
11.35	118072	3A10.6B11.0-2517	28.0	A2	0	.75
12.75	118073	3A12.0B12.4-2517	22.0	A3	0	.75
13.95	118350	3A13.2B13.6-2517	25.0	A3	0	.75
15.75	118074	3A15.0B15.4-2517	30.0	A3	0	.75
16.35	118351	3A15.6B16.0-2517	32.0	A3	0	.75
18.75	118075	3A18.0B18.4-2517	39.0	A3	0	.75
20.35	114072	3B20.0-3030	39.0	A3	0	.50
25.35	114073	3B25.0-3030	52.0	A3	0	.50
30.35	114074	3B30.0-3030	66.0	A3	0	.50
38.35	114033	3B38.0-3030	103.0	A3	0	.50

4-Groove			F = 3.25			
O.D.Δ	Part No.	Description	Wt.	Type†	E	M
3.75	118247	4A3.0B3.4-1210	3.7	A1	2.25	0
3.95	118248	4A3.2B3.6-1210	4.4	A1	2.25	0
4.15	118321	4A3.4B3.8-1610	4.3	A1	2.25	0
4.35	118322	4A3.6B4.0-1610	5.1	A1	2.25	0
4.55	118251	4A3.8B4.2-1610	5.5	A1	2.25	0
4.75	118252	4A4.0B4.4-1610	6.0	A1	2.25	0
4.95	118253	4A4.2B4.6-1610	6.7	A1	2.25	0
5.15	118323	4A4.4B4.8-1610	7.2	A1	2.25	0
5.35	118324	4A4.6B5.0-2517	6.7	A1	1.50	0
5.55	118325	4A4.8B5.2-2517	8.0	A1	1.50	0
5.75	118326	4A5.0B5.4-2517	8.7	A1	1.50	0
5.95	118327	4A5.2B5.6-2517	9.8	A1	1.50	0
6.15	118328	4A5.4B5.8-2517	10.0	A1	1.50	0
6.35	118329	4A5.6B6.0-2517	12.0	A1	1.50	0
6.55	118090	4A5.8B6.2-2517	13.0	A1	0	1.50
6.75	118091	4A6.0B6.4-2517	13.0	A1	0	1.50
6.95	118092	4A6.2B6.6-2517	15.0	A1	0	1.50
7.15	118093	4A6.4B6.8-2517	15.0	A1	0	1.50
7.35	118352	4A6.6B7.0-2517	16.0	A1	0	1.50
7.75	118094	4A7.0B7.4-2517	19.0	A1	0	1.50
8.35	118353	4A7.6B8.0-2517	21.0	A1	0	1.50
8.95	118095	4A8.2B8.6-2517	21.0	A1	0	1.50
9.75	118096	4A9.0B9.4-2517	24.0	A1	0	1.50
11.35	118097	4A10.6B11.0-2517	31.0	A1	0	1.50
12.75	118098	4A12.0B12.4-2517	30.0	A3	.37	1.12
13.95	118354	4A13.2B13.6-2517	34.0	A3	.37	1.12
15.75	118099	4A15.0B15.4-2517	41.0	A3	.37	1.12
16.35	118355	4A15.6B16.0-2517	32.0	A3	.37	1.12
18.75	118100	4A18.0B18.4-2517	45.0	A3	.48	1.01
20.35	114075	4B20.0-3030	47.0	A3	.50	.75
25.35	114041	4B25.0-3030	73.0	A3	0	.25
30.35	114042	4B30.0-3030	91.0	A3	0	.25
38.35	114043	4B38.0-3030	123.0	A3	0	.25

5-Groove			F = 4.00			
O.D.Δ	Part No.	Description	Wt.	Type†	E	M
3.75	118101	5A3.0B3.4-1215	4.9	A1	.87	1.62
3.95	118102	5A3.2B3.6-1215	5.4	A1	.87	1.62
4.15	118103	5A3.4B3.8-1215	5.1	A1	.87	1.62
4.35	118104	5A3.6B4.0-1215	6.1	A1	.87	1.62
4.55	118105	5A3.8B4.2-1615	6.6	A1	.87	1.62
4.75	118106	5A4.0B4.4-1615	6.9	A1	.87	1.62
4.95	118107	5A4.2B4.6-1615	8.6	A1	.87	1.62
5.15	118356	5A4.4B4.8-1615	9.4	A1	.87	1.62
5.35	118109	5A4.6B5.0-1615	9.2	A1	.87	1.62
5.55	118110	5A4.8B5.2-1615	9.9	A1	.87	1.62
5.75	118111	5A5.0B5.4-2517	11.0	A1	.81	1.43
5.95	118112	5A5.2B5.6-2517	11.0	A1	.81	1.43
6.15	118357	5A5.4B5.8-2517	13.0	A1	.81	1.43
6.35	118114	5A5.6B6.0-2517	13.0	A1	.81	1.43
6.55	118358	5A5.8B6.2-2517	14.0	A1	.81	1.43
6.75	118116	5A6.0B6.4-2517	15.0	A1	.81	1.43
6.95	118359	5A6.2B6.6-2517	16.0	A1	.81	1.43
7.15	118118	5A6.4B6.8-2517	18.0	A1	.81	1.43
7.35	118360	5A6.6B7.0-2517	18.0	A1	.75	1.50
7.75	118119	5A7.0B7.4-2517	22.0	A1	.75	1.50
8.35	118361	5A7.6B8.0-2517	23.0	A1	.50	1.75
8.95	118120	5A8.2B8.6-2517	24.0	A1	.75	1.50
9.75	118121	5A9.0B9.4-2517	26.0	A1	.75	1.50
11.35	118122	5A10.6B11.0-2517	32.0	A2	.75	1.50
12.75	118123	5A12.0B12.4-2517	35.0	A3	.75	1.50
13.95	118362	5A13.2B13.6-2517	38.0	A3	1.00	1.25
15.75	118124	5A15.0B15.4-2517	43.0	A3	.75	1.50
16.35	118363	5A15.6B16.0-2517	67.0	A3	.75	1.50
18.75	118125	5A18.0B18.4-2517	70.0	A3	.81	1.44
20.35	114050	5B20.0-3030	65.0	A3	.25	.75
25.35	114051	5B25.0-3030	84.0	A3	.25	.75
30.35	114052	5B30.0-3030	105.0	A3	.25	.63
38.35	114053	5B38.0-3030	144.0	A3	.25	.75

6-Groove			F = 4.75			
O.D.Δ	Part No.	Description	Wt.	Type†	E	M
4.55	118130	6A3.8B4.2-1615	7.9	A1	1.25	2.00
4.75	118131	6A4.0B4.4-1615	9.3	A1	1.25	2.00
4.95	118132	6A4.2B4.6-1615	9.7	A1	1.25	2.00
5.15	118364	6A4.4B4.8-1615	11.0	A1	1.25	2.00
5.35	118134	6A4.6B5.0-1615	10.0	A1	1.25	2.00
5.55	118135	6A4.8B5.2-1615	11.0	A1	1.25	2.00
5.75	118136	6A5.0B5.4-2517	12.0	A1	1.12	1.87
5.95	118137	6A5.2B5.6-2517	13.0	A1	1.12	1.87
6.15	118365	6A5.4B5.8-2517	14.0	A1	1.12	1.87
6.35	118139	6A5.6B6.0-2517	15.0	A1	1.12	1.87
6.55	118366	6A5.8B6.2-2517	16.0	A1	1.12	1.87
6.75	118141	6A6.0B6.4-2517	19.0	A1	1.12	1.87
6.95	118367	6A6.2B6.6-2517	20.0	A1	1.12	1.87
7.15	118143	6A6.4B6.8-2517	20.0	A1	1.12	1.87
7.35	118368	6A6.6B7.0-2517	21.0	A1	1.50	1.50
7.75	118144	6A7.0B7.4-2517	24.0	A1	1.12	1.87
8.35	118369	6A7.6B8.0-2517	26.0	A1	1.50	1.50
8.95	118145	6A8.2B8.6-2517	30.0	A2	1.50	1.50
9.75	118146	6A9.0B9.4-2517	30.0	A2	1.12	1.87
11.35	118147	6A10.6B11.0-2517	33.0	A2	1.12	1.87
12.75	118148	6A12.0B12.4-2517	37.0	A3	1.50	1.50
13.95	118370	6A13.2B13.6-2517	42.0	A3	1.50	1.50
15.75	118149	6A15.0B15.4-2517	47.0	A3	1.50	1.50
16.35	118371	6A15.6B16.0-2517	53.0	A3	1.50	1.50
18.75	118150	6A18.0B18.4-2517	68.0	A3	1.50	1.50
20.35	114060	6B20.0-3030	73.0	A3	.50	1.25
25.35	114061	6B25.0-3030	95.0	A3	.50	1.25
30.35	114062	6B30.0-3030	119.0	A3	.50	1.25
38.35	114063	6B38.0-3030	164.0	A3	.50	1.25

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. +.01"

† Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

BELTS PAGES PT7-28 - PT7-41	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION/DIMENSIONS



TORQUE-TAMER

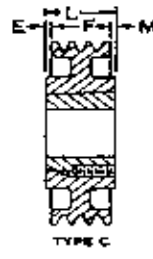
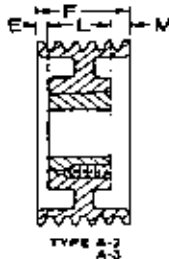
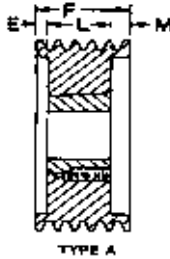
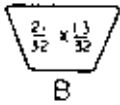
Bushings

V-Drives

FHP

Drives Component Accessories

B TAPER-LOCK SHEAVES



8-Groove		F = 6.25				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
5.75	114114	8B5.4-2517	15.0	A1	1.87	2.62
5.95	114115	8B5.6-2517	17.0	A1	1.87	2.62
6.35	114116	8B6.0-2517	19.0	A1	1.87	2.62
6.75	114117	8B6.4-2517	22.0	A1	1.87	2.62
7.15	114118	8B6.8-2517	26.0	A1	1.87	2.62
7.75	114119	8B7.4-2517	34.0	A1	1.87	2.62
8.95	114130	8B8.6-3030	37.0	A1	1.00	2.25
9.75	114131	8B9.4-3030	37.0	A1	1.00	2.25
11.35	114132	8B11.0-3030	46.0	A1	1.13	2.13
12.75	114133	8B12.4-3030	46.0	A2	1.00	2.25
15.75	114134	8B15.4-3030	66.0	A2	1.00	2.25
18.75	114135	8B18.4-3030	81.0	A3	1.00	2.25
20.35	114136	8B20.0-3030	87.0	A3	1.00	2.25
25.35	114137	8B25.0-3535	115.0	A3	.75	2.00
30.35	114138	8B30.0-3535	146.0	A3	.75	2.00
38.35	114139	8B38.0-4040	204.0	A3	1.12	1.12

10-Groove		F = 7.75				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
5.75	114150	10B5.4-2517	18.0	A1	3.00	3.00
5.95	114151	10B5.6-2517	20.0	A1	3.00	3.00
6.35	114152	10B6.0-2517	22.0	A1	3.00	3.00
6.75	114153	10B6.4-2517	26.0	A1	3.00	3.00
7.15	114154	10B6.8-2517	29.0	A1	3.00	3.00
7.75	114155	10B7.4-2517	35.0	A1	3.00	3.00
8.95	114170	10B8.6-3030	43.0	A1	2.00	2.75
9.75	114171	10B9.4-3030	47.0	A1	2.00	2.75
11.35	114172	10B11.0-3030	58.0	A1	2.00	2.75

C TAPER-LOCK SHEAVES



2-Groove		F = 2.37				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.4	115162	2C7.0-2517	15.0	A1	0	.62
7.9	115163	2C7.5-2517	18.0	A1	0	.62
8.4	115164	2C8.0-2517	20.0	A1	0	.62
8.9	115165	2C8.5-2517	22.0	A1	0	.62
9.4	115166	2C9.0-2517	21.0	A1	0	.62
9.9	115186	2C9.5-2517	24.0	A1	0	.62
10.4	115171	2C10.0-2517	25.0	A2	0	.62
10.9	115187	2C10.5-2517	26.0	A2	0	.62
11.4	115174	2C11.0-2517	27.0	A2	0	.62
12.4	115175	2C12.0-2517	28.0	A2	0	.62
13.4	115176	2C13.0-2517	33.0	A3	0	.62
14.4	115177	2C14.0-2517	35.0	A3	0	.62
16.4	115178	2C16.0-2517	38.0	A3	0	.62
18.4	115325	2C18.0-3020	42.0	A3	0	.37
20.4	115326	2C20.0-3020	44.0	A3	0	.37
24.4	115327	2C24.0-3020	56.0	A3	0	.37
30.4	115000	2C30.0-3535	85.0	C3	.50	.63

3-Groove		F = 3.37				
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.4	115130	3C7.0-2517	18.0	A1	.25	1.37
7.9	115131	3C7.5-2517	19.0	A1	.25	1.37
8.4	115132	3C8.0-2517	21.0	A1	0	1.62
8.9	115133	3C8.5-2517	23.0	A1	.25	1.37
9.4	115001	3C9.0-2517	24.0	A1	.25	1.37
9.9	115188	3C9.5-2517	25.0	A1	.25	1.37
10.4	115016	3C10.0-2517	27.0	A1	.25	1.37
10.9	115189	3C10.5-2517	28.0	A1	.25	1.37
11.4	115006	3C11.0-2517	29.0	A1	.25	1.37
12.4	115328	3C12.0-3020	44.0	A2	0	1.37
13.4	115329	3C13.0-3020	49.0	A3	0	1.37
14.4	115330	3C14.0-3020	50.0	A3	0	1.37
16.4	115331	3C16.0-3020	64.0	A3	.06	1.31
18.4	115014	3C18.0-3030	72.0	A3	0	.37
20.4	115009	3C20.0-3030	79.0	A3	0	.37
24.4	115010	3C24.0-3030	90.0	A3	0	.37
30.4	115011	3C30.0-3535	135.0	C3	0	.12
36.4	115012	3C36.0-3535	175.0	C3	0	.12

Δ P.D. for "B" Belts = O.D. + .01"

P.D. for "C" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION/DIMENSIONS



C TAPER-LOCK SHEAVES

4-Groove F = 4.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.4	115135	4C7.0-2517	20.0	A1	1.12	1.50
7.9	115136	4C7.5-2517	21.0	A1	1.13	1.50
8.4	115137	4C8.0-2517	24.0	A1	.50	2.13
8.9	115138	4C8.5-2517	25.0	A1	.50	2.13
9.4	115017	4C9.0-2517	26.0	A1	.50	2.13
9.9	115190	4C9.5-2517	29.0	A1	.50	2.13
10.4	115032	4C10.0-2517	31.0	A1	.50	2.13
10.9	115191	4C10.5-2517	32.0	A1	.50	2.13
11.4	115022	4C11.0-2517	34.0	A1	.50	2.13
12.4	115151	4C12.0-3030	52.0	A2	0	1.37
13.4	115023	4C13.0-3030	56.0	A3	0	1.37
14.4	115155	4C14.0-3030	63.0	A3	0	1.37
16.4	115024	4C16.0-3030	71.0	A3	0	1.37
18.4	115030	4C18.0-3030	81.0	A3	.18	1.18
20.4	115025	4C20.0-3030	80.0	A3	0	1.37
24.4	115026	4C24.0-3030	98.0	A3	0	1.37
30.4	115027	4C30.0-3535	130.0	A3	.31	.56
36.4	115028	4C36.0-3535	165.0	A3	0	.87
44.4	115029	4C44.0-4040	240.0	A3	0	.37

6-Groove F = 6.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.4	115145	6C7.0-3030	33.0	A1	1.00	2.37
7.9	115146	6C7.5-3030	38.0	A1	1.00	2.37
8.4	115147	6C8.0-3030	43.0	A1	1.00	2.37
8.9	115148	6C8.5-3030	49.0	A1	1.00	2.37
9.4	115049	6C9.0-3030	54.0	A1	1.00	2.37
9.9	115194	6C9.5-3030	57.0	A1	1.00	2.37
10.4	115064	6C10.0-3030	61.0	A1	1.00	2.37
10.9	115195	6C10.5-3030	56.0	A1	1.00	2.37
11.4	115054	6C11.0-3030	58.0	A1	1.00	2.37
12.4	115153	6C12.0-3030	66.0	A1	1.00	2.37
13.4	115055	6C13.0-3030	69.0	A2	1.00	2.37
14.4	115157	6C14.0-3535	85.0	A2	.50	2.37
16.4	115056	6C16.0-3535	100.0	A3	.50	2.37
18.4	115062	6C18.0-3535	115.0	A3	.75	2.12
20.4	115057	6C20.0-3535	103.0	A3	.87	2.00
24.4	115058	6C24.0-3535	129.0	A3	.87	2.00
30.4	115059	6C30.0-4040	195.0	A3	1.00	1.37
36.4	115060	6C36.0-4040	243.0	A3	1.00	1.37
44.4	115061	6C44.0-4040	315.0	A3	1.00	1.37

10-Groove F = 10.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
9.4	115351	10C9.0-4545	84.0	A1	1.50	4.37
9.9	115352	10C9.5-4545	101.0	A1	1.50	4.37
10.4	115353	10C10.0-4545	104.0	A1	1.50	4.37
10.9	115354	10C10.5-4545	108.0	A1	1.50	4.37
11.4	115355	10C11.0-4545	128.0	A1	1.50	4.37
12.4	115356	10C12.0-4545	148.0	A1	1.50	4.37
13.4	115349	10C13.0-4545	168.0	A1	2.00	3.87
14.4	115357	10C14.0-4545	205.0	A1	2.00	3.87
16.4	115358	10C16.0-4545	237.0	A1	2.00	3.87
18.4	115359	10C18.0-4545	270.0	A3	2.00	3.87
20.4	115360	10C20.0-4545	176.0	A3	2.00	3.87
24.4	115361	10C24.0-5050	242.0	A3	1.50	3.87
30.4	115123	10C30.0-4545	303.0	A3	2.00	3.87
36.4	115124	10C36.0-4545	375.0	A3	2.00	3.87
44.4	115125	10C44.0-4545	484.0	A3	2.00	3.87

5-Groove F = 5.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
7.4	115140	5C7.0-2517	23.0	A1	1.50	2.12
7.9	115141	5C7.5-2517	25.0	A1	1.50	2.12
8.4	115142	5C8.0-2517	30.0	A1	1.50	2.12
8.9	115143	5C8.5-2517	32.0	A1	1.50	2.12
9.4	115033	5C9.0-2517	35.0	A1	1.50	2.12
9.9	115192	5C9.5-2517	36.0	A1	1.50	2.12
10.4	115048	5C10.0-2517	39.0	A1	1.50	2.12
10.9	115193	5C10.5-2517	42.0	A1	1.50	2.12
11.4	115038	5C11.0-2517	43.0	A1	1.50	2.12
12.4	115152	5C12.0-3030	58.0	A1	.69	1.69
13.4	115039	5C13.0-3030	63.0	A2	.50	1.87
14.4	115156	5C14.0-3030	65.0	A2	.50	1.87
16.4	115040	5C16.0-3030	86.0	A3	.50	1.87
18.4	115036	5C18.0-3030	105.0	A3	.69	1.69
20.4	115041	5C20.0-3535	91.0	A3	0	1.87
24.4	115042	5C24.0-3535	114.0	A3	.37	1.50
30.4	115043	5C30.0-3535	152.0	A3	.38	1.50
36.4	115044	5C36.0-4040	216.0	A3	.25	1.12
44.4	115045	5C44.0-4040	278.0	A3	.25	1.12

8-Groove F = 8.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
8.4	115160	8C8.0-3030	59.0	A1	2.00	3.37
8.9	115161	8C8.5-3030	62.0	A1	2.00	3.37
9.4	115081	8C9.0-3535	64.0	A1	1.50	3.37
9.9	115196	8C9.5-3535	73.0	A1	1.50	3.37
10.4	115096	8C10.0-3535	81.0	A1	1.50	3.37
10.9	115197	8C10.5-3535	85.0	A1	1.50	3.37
11.4	115086	8C11.0-3535	87.0	A1	1.50	3.37
12.4	115185	8C12.0-3535	90.0	A1	1.50	3.37
13.4	115087	8C13.0-3535	97.0	A1	1.50	3.37
14.4	115097	8C14.0-3535	105.0	A1	1.50	3.37
16.4	115088	8C16.0-3535	125.0	A3	1.50	3.37
18.4	115098	8C18.0-4040	155.0	A3	1.50	2.87
20.4	115089	8C20.0-4040	151.0	A3	1.50	2.87
24.4	115090	8C24.0-4040	183.0	A3	1.50	2.87
30.4	115091	8C30.0-4040	237.0	A3	1.50	2.87
36.4	115092	8C36.0-4545	322.0	A3	1.25	2.62
44.4	115093	8C44.0-4545	411.0	A3	1.25	2.62

12-Groove F = 12.37						
O.D.Δ	Part No.	Description	Wt.	Type‡	E	M
9.4	115065	12C9.0-4040	87.0	A1	3.50	4.87
9.9	115066	12C9.5-4040	90.0	A1	3.50	4.87
10.4	115067	12C10.0-4040	95.0	A1	3.50	4.87
10.9	115068	12C10.5-4040	104.0	A1	3.50	4.87
11.4	115069	12C11.0-4040	125.0	A1	3.50	4.87
12.4	115070	12C12.0-4040	140.0	A1	3.50	4.87
13.4	115071	12C13.0-4545	173.0	A1	3.00	4.87
14.4	115072	12C14.0-4545	177.0	A1	3.00	4.87

Δ P.D. for "C" Belts = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

BELTS PAGES PT7-28 - PT7-41	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

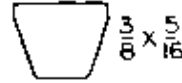
Drives Component Accessories



SELECTION/DIMENSIONS



3V QD SHEAVES



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

1-Groove							F = *
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K	
2.2	455100	1/3V2.2-JA	0.93	E1	0.50	0.51	
2.35	455101	1/3V2.35-JA	1.1	E1	0.50	0.51	
2.5	455102	1/3V2.5-JA	1.2	E1	0.50	0.51	
2.65	455103	1/3V2.65-JA	1.4	D1	0.14	0.37	
2.8	455104	1/3V2.8-JA	1.5	D1	0.14	0.37	
3.0	455105	1/3V3.00-JA	1.6	D1	0.14	0.37	
3.15	455106	1/3V3.15-JA	1.7	D1	0.14	0.37	
3.35	455107	1/3V3.35-JA	1.8	D1	0.14	0.37	
3.65	455108	1/3V3.65-SH	2.2	D1	0.11	0.57	
4.12	455109	1/3V4.12-SH	2.7	D1	0.05	0.63	
4.5	455110	1/3V4.5-SH	3.1	D1	0.05	0.63	
4.75	455111	1/3V4.75-SH	3.4	D1	0.05	0.63	
5.0	455112	1/3V5.0-SH	3.7	C1	0	0.68	
5.3	455113	1/3V5.3-SH	3.9	C1	0	0.68	
5.6	455114	1/3V5.6-SH	4.4	C1	0	0.68	
6.0	455115	1/3V6.0-SH	4.5	C1	0	0.68	
6.5	455116	1/3V6.5-SH	4.6	C1	0	0.68	
6.9	455117	1/3V6.9-SH	4.8	C1	0	0.68	
8.0	455118	1/3V8.0-SDS	6.6	C1	0.06	0.64	
10.6	455119	1/3V10.6-SDS	8.5	C2	0.12	0.58	
14.0	455120	1/3V14.0-SK	14.0	C3	0.44	1.33	
19.0	455121	1/3V19.0-SK	20.0	C3	0.16	1.05	

* F=1.19 2.2 – 2.5, F=1.09 2.65 – 3.65 & 14.0 – 19.0,
F=0.93 4.12 – 4.75, F=0.81 5.0 – 6

2-Groove							F = 1.09
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K	
2.2	455122	2/3V2.2-JA	1.2	E1	0.50	0.51	
2.35	455123	2/3V2.35-JA	1.3	E1	0.50	0.51	
2.5	455124	2/3V2.5-JA	1.5	E1	0.50	0.51	
2.65	455125	2/3V2.65-JA	1.6	D1	0.14	0.37	
2.8	455126	2/3V2.8-JA	1.7	D1	0.14	0.37	
3.0	455127	2/3V3.0-JA	2.0	D1	0.14	0.37	
3.15	455128	2/3V3.15-JA	2.1	D1	0.14	0.37	
3.35	455129	2/3V3.35-SH	2.2	D1	0.11	0.57	
3.65	455130	2/3V3.65-SH	2.6	D1	0.11	0.57	
4.12	455131	2/3V4.12-SH	3.2	C1	0.28	0.40	
4.5	455132	2/3V4.5-SH	3.8	C1	0.28	0.40	
4.75	455133	2/3V4.75-SH	4.1	C1	0.28	0.40	
5.0	455134	2/3V5.0-SH	4.6	C1	0.28	0.40	
5.3	455135	2/3V5.3-SH	5.1	C1	0.28	0.40	
5.6	455136	2/3V5.6-SH	5.6	C1	0.28	0.40	
6.0	455137	2/3V6.0-SH	5.8	C1	0.12	0.56	
6.5	455138	2/3V6.5-SDS	6.0	C1	0.34	0.36	
6.9	455139	2/3V6.9-SDS	6.6	C1	0.34	0.36	
8.0	455140	2/3V8.0-SDS	7.8	C1	0.34	0.36	
10.6	455141	2/3V10.6-SK	14.0	C1	0.25	0.64	
14.0	455142	2/3V14.0-SK	17.0	D3	0.25	0.64	
19.0	455143	2/3V19.0-SK	24.0	D3	0	0.89	
25.0	455144	2/3V25.0-SF	29.0	D3	0.18	0.76	

3-Groove							F = 1.50
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K	
2.5	455145	3/3V2.50-JA	1.9	E1	0.44	0.51	
2.65	455146	3/3V2.65-JA	1.9	E1	0	0.51	
2.8	455147	3/3V2.80-JA	2.2	E1	0	0.51	
3.0	455148	3/3V3.00-SH	2.6	E1	0.52	0.68	
3.15	455149	3/3V3.15-SH	2.8	E1	0.52	0.68	
3.35	455150	3/3V3.35-SH	3.0	D1	0.11	0.57	
3.65	455151	3/3V3.65-SH	3.2	D1	0.11	0.57	
4.12	455152	3/3V4.12-SH	3.6	B1	0.69	0.01	
4.5	455153	3/3V4.50-SDS	4.3	B1	0.75	0.05	
4.75	455154	3/3V4.75-SDS	4.8	B1	0.75	0.05	
5.0	455155	3/3V5.0-SDS	5.1	B1	0.75	0.05	
5.3	455156	3/3V5.3-SDS	5.8	B1	0.75	0.05	
5.6	455157	3/3V5.6-SDS	6.5	B1	0.75	0.05	
6.0	455158	3/3V6.0-SDS	7.5	D1	0.56	0.14	
6.5	455159	3/3V6.5-SDS	7.8	B1	0.75	0.05	
6.9	455160	3/3V6.9-SDS	8.0	B1	0.75	0.05	
8.0	455161	3/3V8.0-SK	12.0	C1	0.25	0.64	
10.6	455162	3/3V10.6-SK	15.0	D2	0.25	0.64	
14.0	455163	3/3V14.0-SK	21.0	C3	0.25	0.64	
19.0	455164	3/3V19.0-SF	36.0	C3	0.25	0.69	
25.0	455165	3/3V25.0-SF	35.0	C3	0.25	0.69	
33.5	455166	3/3V33.5-SF	52.0	C3	0.25	0.69	

4-Groove							F = 1.90
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K	
2.65	455167	4/3V2.65-JA	2.2	E1	0	0.51	
2.8	455168	4/3V2.8-JA	2.4	E1	0	0.51	
3.0	455169	4/3V3.0-SH	2.8	E1	0.38	0.68	
3.15	455170	4/3V3.15-SH	3.1	E1	0.38	0.68	
3.35	455171	4/3V3.35-SH	3.3	E1	0.38	0.68	
3.65	455172	4/3V3.65-SH	3.8	E1	0.38	0.68	
4.12	455173	4/3V4.12-SH	4.1	A1	1.09	0.41	
4.5	455174	4/3V4.5-SDS	4.6	A1	1.15	0.45	
4.75	455175	4/3V4.75-SDS	5.3	A1	1.15	0.45	
5.0	455176	4/3V5.0-SDS	5.6	A1	1.15	0.45	
5.3	455177	4/3V5.3-SDS	6.4	A1	1.15	0.45	
5.6	455178	4/3V5.6-SDS	6.9	A1	1.15	0.45	
6.0	455179	4/3V6.0-SK	9.4	D1	0.50	0.39	
6.5	455180	4/3V6.5-SK	9.5	C1	0.66	0.23	
6.9	455181	4/3V6.9-SK	11.0	C1	0.66	0.23	
8.0	455182	4/3V8.0-SK	13.0	C1	0.66	0.23	
10.6	455183	4/3V10.6-SK	18.0	D2	0.66	0.23	
14.0	455184	4/3V14.0-SK	24.0	D3	0.63	0.27	
19.0	455185	4/3V19.0-SF	40.0	D3	0.50	0.44	
25.0	455186	4/3V25.0-SF	41.0	D3	0.63	0.31	
33.5	455187	4/3V33.5-E	65.0	C3	0.34	0.86	

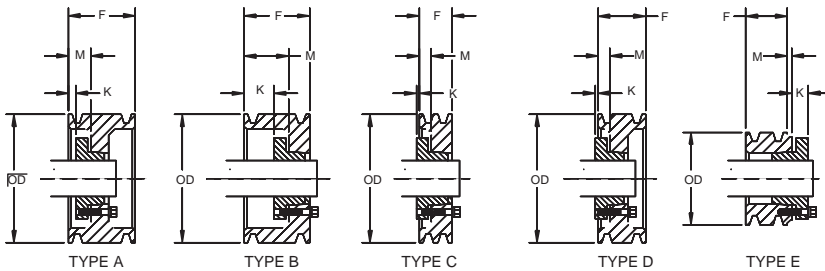
Δ Pitch Diameter = O.D. – .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-3.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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3V QD SHEAVES



5-Groove		F = 2.31				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
4.75	455188	5/3V4.75-SDS	5.9	A1	0.75	0.05
5.0	455189	5/3V5.0-SDS	6.3	A1	0.75	0.05
5.3	455190	5/3B5.3-SK	8.0	A1	0.94	0.05
5.6	455191	5/3V5.6-SK	9.0	A1	0.94	0.05
6.0	455192	5/3V6.0-SK	11.0	A1	0.94	0.05
6.5	455193	5/3V6.5-SK	11.0	A1	0.94	0.05
6.9	455194	5/3V6.9-SK	12.0	A1	0.94	0.05
8.0	455195	5/3V8.0-SK	15.0	A1	0.94	0.05
10.6	455196	5/3V10.6-SK	20.0	A1	0.94	0.05
14.0	455197	5/3V14.0-SF	31.0	D3	0.63	0.32
19.0	455198	5/3V19.0-SF	46.0	D3	0.63	0.31
25.0	455199	5/3V25.0-E	50.0	C3	0.63	0.57
33.5	455200	5/3V33.5-E	74.0	C3	0.63	0.57

6-Groove		F = 2.72				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
4.75	455201	6/3V4.75-SK	7.1	E1	0	0.89
5.0	455202	6/3V5.0-SK	7.8	E1	0	0.89
5.3	455203	6/3V5.3-SK	8.6	A1	1.31	0.42
5.6	455204	6/3V5.6-SK	8.8	A1	1.31	0.42
6.0	455205	6/3V6.0-SK	11.0	A1	1.31	0.42
6.5	455206	6/3V6.5-SK	12.0	A1	1.31	0.42
6.9	455207	6/3V6.9-SK	13.0	A1	1.31	0.42
8.0	455208	6/3V8.0-SK	17.0	D1	0.59	0.30
10.6	455209	6/3V10.6-SF	23.0	D1	0.88	0.07
14.0	455210	6/3V14.0-SF	33.0	D3	0.88	0.06
19.0	455211	6/3V19.0-E	62.0	D3	0.88	0.32
25.0	455212	6/3V25.0-E	56.0	D3	1.00	0.20
33.5	455213	6/3V33.5-E	83.0	D3	1.00	0.20

8-Groove		F = 3.53				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
4.75	455214	8/3V4.75-SK	8.4	E1	0	0.89
5.0	455215	8/3V5.0-SK	8.6	E1	0	0.89
5.3	455216	8/3V5.3-SK	10.0	A1	1.31	0.42
5.6	455217	8/3V5.6-SK	11.0	A1	1.31	0.42
6.0	455218	8/3V6.0-SK	13.0	A1	1.31	0.42
6.5	455219	8/3V6.5-SK	15.0	A1	1.31	0.42
6.9	455220	8/3V6.9-SK	15.0	A1	1.53	0.64
8.0	455221	8/3V8.0-SF	20.0	A1	1.31	0.37
10.6	455222	8/3V10.6-SF	29.0	A2	1.12	0.18
14.0	455223	8/3V14.0-E	51.0	A3	1.25	0.05
19.0	455224	8/3V19.0-E	70.0	D3	1.12	0.08
25.0	455225	8/3V25.0-E	67.0	A3	1.25	0.05
33.5	455226	8/3V33.5-F	98.0	D3	1.06	0.36

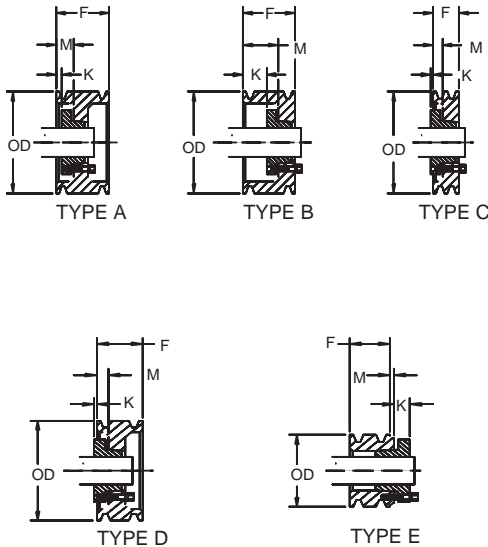
10-Groove		F = 4.34				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
4.75	455227	10/3V4.75-SK	9.7	E1	0	0.89
5.0	455228	10/3V5.0-SK	11.0	E1	0	0.89
5.3	455229	10/3V5.3-SK	12.0	A1	1.44	0.55
5.6	455230	10/3V5.6-SK	13.0	A1	1.44	0.55
6.0	455231	10/3V6.0-SK	15.0	A1	1.44	0.55
6.5	455232	10/3V6.5-SK	16.0	A1	1.44	0.55
6.9	455233	10/3V6.9-SK	18.0	A1	1.44	0.55
8.0	455234	10/3V8.0-SF	22.0	A1	1.63	0.69
10.6	455235	10/3V10.6-E	41.0	A1	1.25	0.05
14.0	455236	10/3V14.0-E	55.0	A2	1.25	0.05
19.0	455237	10/3V19.0-E	80.0	A3	1.25	0.05
25.0	455238	10/3V25.0-F	83.0	D3	1.31	0.11
33.5	455239	10/3V33.5-F	124.0	D3	1.31	0.11

Δ Pitch Diameter = O.D. - .05"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.



5V QD SHEAVES



8-Groove F = 5.81						
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
7.1	455393	8/5V7.1-SF	24.0	A1	2.13	1.19
7.5	455394	8/5V7.5-SF	28.0	A1	2.13	1.19
8.0	455395	8/5V8.0-E	36.0	A1	2.50	1.30
8.5	455396	8/5V8.5-E	39.0	A1	2.50	1.30
9.0	455397	8/5V9.0-E	43.0	A1	2.50	1.30
9.25	455398	8/5V9.25-F	55.0	A1	2.31	0.89
9.75	455399	8/5V9.75-F	56.0	A1	2.31	0.89
10.3	455400	8/5V10.3-F	60.0	A1	2.31	0.89
10.9	455401	8/5V10.9-F	65.0	A1	2.31	0.89
11.3	455402	8/5V11.3-F	70.0	A1	2.31	0.89
11.8	455403	8/5V11.8-F	67.0	A1	2.31	0.89
12.5	455404	8/5V12.5-F	76.0	A1	2.56	1.14
13.2	455405	8/5V13.2-F	77.0	A1	2.56	1.14
14.0	455406	8/5V14.0-F	77.0	A1	2.44	1.02
15.0	455407	8/5V15.0-F	85.0	A2	2.44	1.02
16.0	455408	8/5V16.0-F	90.0	A3	2.38	0.96
18.7	455409	8/5V18.7-J	138.0	A3	2.91	1.31
21.2	455410	8/5V21.2-J	126.0	D3	1.56	0.04
23.6	455411	8/5V23.6-J	141.0	D3	1.56	0.04
28.0	455412	8/5V28.0-J	172.0	D3	1.56	0.04
31.5	455413	8/5V31.5-M	246.0	A3	1.94	0.20
37.5	455414	8/5V37.5-M	296.0	A3	1.94	0.20
50.0	455415	8/5V50.0-M	419.0	A3	1.94	0.20

Δ Pitch diameter = O.D. - .10"
 ‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See drawings page PT7-3.
 ++ 5VX Belts only on these sizes.

6-Groove F = 4.44						
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
++4.4	455362	6/5V4.40-SD	9.0	E1	0	0.70
++4.65	455363	6/5V4.65-SD	10.0	E1	0	0.70
++4.90	455364	6/5V4.90-SD	11.0	E1	0	0.70
++5.20	455365	6/5V5.20-SD	12.0	A1	1.31	0.61
++5.50	455366	6/5V5.50-SD	13.0	A1	1.31	0.61
++5.90	455367	6/5V5.90-SK	14.0	A1	1.31	0.42
++6.30	455368	6/5V6.30-SK	16.0	A1	1.31	0.42
++6.70	455369	6/5V6.70-SF	19.0	A1	1.69	0.75
7.1	455370	6/5V7.1-SF	21.0	A1	1.63	0.68
7.5	455371	6/5V7.5-SF	24.0	A1	1.63	0.68
8.0	455372	6/5V8.0-E	32.0	A1	2.00	0.80
8.5	455373	6/5V8.5-E	34.0	A1	2.00	0.80
9.0	455374	6/5V9.0-E	38.0	A1	2.00	0.80
9.25	455375	6/5V9.25-E	40.0	A1	2.00	0.80
9.75	455376	6/5V9.75-E	41.0	A1	2.00	0.80
10.3	455377	6/5V10.3-E	44.0	A1	2.00	0.80
10.9	455378	6/5V10.9-E	49.0	A1	2.00	0.80
11.3	455379	6/5V11.3-E	47.0	A1	2.00	0.80
11.8	455380	6/5V11.8E	49.0	A2	2.00	0.80
12.5	455381	6/5V12.5-F	63.0	B2	2.06	0.64
13.2	455382	6/5V13.2-F	64.0	B2	2.06	0.64
14.0	455383	6/5V14.0-F	73.0	B2	2.06	0.64
15.0	455384	6/5V15.0-F	75.0	D2	1.31	0.11
16.0	455385	6/5V16.0-F	91.0	B3	1.88	0.46
18.7	455386	6/5V18.7-F	99.0	A3	1.44	0.02
21.2	455387	6/5V21.2-F	86.0	D3	1.31	0.11
23.6	455388	6/5V23.6-J	121.0	B3	1.31	0.11
28.0	455389	6/5V28.0-J	145.0	B3	1.31	0.11
31.5	455390	6/5V31.5-J	167.0	B3	1.31	0.11
37.5	455391	6/5V37.5-J	208.0	B3	1.31	0.11
50.0	455392	6/5V50.0-M	353.0	B3	0	1.74

10-Groove F = 7.19						
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
8.0	456062	10/5V8.0-E	42.0	A1	3.25	2.05
8.5	456063	10/5V8.5-E	44.0	A1	3.25	2.05
9.0	456064	10/5V9.0-F	57.0	A1	3.31	1.89
9.25	456065	10/5V9.25-F	60.0	A1	3.31	1.89
9.75	456066	10/5V9.75-F	61.0	A1	3.31	1.89
10.3	456067	10/5V10.3-F	66.0	A1	3.31	1.89
10.9	456066	10/5V10.9-F	72.0	A1	3.31	1.89
11.3	456069	10/5V11.3-F	78.0	A1	3.31	1.89
11.8	456070	10/5V11.8-F	80.0	A1	3.31	1.89
12.5	456071	10/5V12.5-J	111.0	A1	3.56	1.96
13.2	456072	10/5V13.2-J	115.0	A1	3.56	1.96
14.0	456073	10/5V14.0-J	118.0	A1	3.44	1.84
15.0	456074	10/5V15.0-J	120.0	A1	3.31	1.71
16.0	456075	10/5V16.0-J	160.0	A1	3.56	1.96
18.7	456076	10/5V18.7-J	151.0	D2	1.56	0.04
21.2	456077	10/5V21.2-J	143.0	D2	1.56	0.04
23.6	456078	10/5V23.6-M	209.0	B3	1.94	0.20
28.0	456079	10/5V28.0-M	245.0	B3	1.94	0.20
31.5	456080	10/5V31.5-M	277.0	B3	1.94	0.20
37.5	456081	10/5V37.5-M	337.0	B3	1.94	0.20
50.0	456082	10/5V50.0-M	484.0	B3	1.94	0.20



SELECTION/DIMENSIONS



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

8V QD SHEAVES



4-Groove F = 4.88

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	455416	4/8V12.5-F	83.0	D1	1.19	0.23
13.2	455417	4/8V13.2-F	88.0	D2	1.19	0.23
14.0	455418	4/8V14.0-F	88.0	D2	1.19	0.23
15.0	455419	4/8V15.0-F	111.0	D2	1.19	0.23
16.0	455420	4/8V16.0-F	105.0	D2	1.19	0.23
17.0	455521	4/8V17.0-F	150.0	D3	1.19	0.23
18.0	455422	4/8V18.0-F	150.0	D3	1.19	0.23
19.0	455423	4/8V19.0-F	146.0	D3	1.19	0.23
20.0	455424	4/8V20.0-J	145.0	D3	1.44	0.16
21.2	455425	4/8V21.2-J	181.0	D3	1.44	0.16
22.4	455426	4/8V22.4-J	199.0	D3	1.44	0.16
24.8	456654	4/8V24.8-M	211.0	C3	1.44	0.93
30.0	455427	4/8V30.0-M	292.0	C3	0.81	0.93
35.5	456655	4/8V35.5-M	367.0	C3	0.81	0.93
40.0	455428	4/8V40.0-M	434.0	C3	0.81	0.93
44.5	456656	4/8V44.5-M	371.0	C3	0.81	0.93
53.0	455429	4/8V53.0-M	818.0	C3	0.81	0.93

5-Groove F = 6.00

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	455430	5/8V12.5-F	69.0	A2	2.31	0.89
13.2	455431	5/8V13.2-F	75.0	A2	2.31	0.89
14.0	455432	5/8V14.0-F	83.0	A2	2.31	0.89
15.0	455433	5/8V15.0-F	94.0	A2	2.31	0.89
16.0	455434	5/8V16.0-F	106.0	A2	2.31	0.89
17.0	455435	5/8V17.0-J	133.0	A2	2.00	0.40
18.0	455436	5/8V18.0-J	147.0	A3	2.00	0.40
19.0	455437	5/8V19.0-J	161.0	A3	2.00	0.40
20.0	455438	5/8V20.0-J	141.0	A3	2.00	0.40
21.2	455439	5/8V21.2-J	151.0	A3	2.00	0.40
22.4	456402	5/8V22.4-M	208.0	D3	1.94	0.20
24.8	456657	5/8V24.8-M	229.0	D3	1.94	0.20
30.0	455441	5/8V30.0-M	276.0	D3	1.94	0.20
35.5	456658	5/8V35.5-M	334.0	D3	1.94	0.20
40.0	455442	5/8V40.0-M	385.0	D3	1.94	0.20
44.5	456659	5/8V44.5-N	459.0	C3	0.94	1.11
53.0	455443	5/8V53.0-N	574.0	C3	0.94	1.11

6-Groove F = 7.13

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	455444	6/8V12.5-F	78.0	A1	2.31	0.89
13.2	455445	6/8V13.2-F	85.0	A2	2.31	0.89
14.0	455446	6/8V14.0-F	94.0	A2	2.31	0.89
15.0	455447	6/8V15.0-J	122.0	A2	2.56	0.96
16.0	455448	6/8V16.0-J	134.0	A2	2.56	0.96
17.0	455449	6/8V17.0-J	147.0	A2	2.56	0.96
18.0	455450	6/8V18.0-J	161.0	A2	2.56	0.96
19.0	455451	6/8V19.0-J	177.0	A3	2.56	0.96
20.0	455452	6/8V20.0-M	232.0	B3	2.94	1.20
21.2	455453	6/8V21.2-M	216.0	B3	2.94	1.20
22.4	455454	6/8V22.4-M	227.0	B3	2.94	1.20
24.8	456660	6/8V24.8-M	251.0	B3	1.94	0.20
30.0	455455	6/8V30.0-M	306.0	B3	2.06	0.32
35.5	456661	6/8V35.5-N	391.0	C3	1.13	0.92
40.0	455456	6/8V40.0-N	450.0	C3	1.13	0.92
44.5	456662	6/8V44.5-N	511.0	C3	1.13	0.92
53.0	455457	6/8V53.0-N	646.0	C3	1.13	0.92
63.0	456663	6/8V63.0-P	856.0	C3	2.00	0.30
71.0	456690	6/8V71.0-P	1016.0	C3	2.00	0.30

8-Groove F = 9.38

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	455458	8/8V12.5-J	115.0	A1	3.56	1.96
13.2	455459	8/8V13.2-J	129.0	A2	3.56	1.96
14.0	455460	8/8V14.0-J	146.0	A2	3.56	1.96
15.0	455461	8/8V15.0-J	144.0	A2	3.56	1.96
16.0	455462	8/8V16.0-J	158.0	A2	3.56	1.96
17.0	455463	8/8V17.0-M	214.0	A1	3.94	2.20
18.0	455464	8/8V18.0-M	230.0	A2	4.19	2.45
19.0	455465	8/8V19.0-M	247.0	A2	3.94	2.20
20.0	455466	8/8V20.0-M	266.0	A2	3.94	2.20
21.2	455467	8/8V21.2-M	245.0	A3	3.94	2.20
22.4	455468	8/8V22.4-M	264.0	A3	2.25	0.51
24.8	456664	8/8V24.8-N	315.0	A3	2.25	0.20
30.0	455469	8/8V30.0-N	384.0	A3	2.25	0.20
35.5	456665	8/8V35.5-N	468.0	A3	2.25	0.20
40.0	455470	8/8V40.0-N	543.0	B3	2.63	0.58
44.5	456666	8/8V44.5-P	670.0	B3	2.63	0.33
53.0	455471	8/8V53.0-P	833.0	B3	2.63	0.33
63.0	456667	8/8V63.0-P	1049.0	B3	2.63	0.33
71.0	456691	8/8V71.0-W	1266.0	C3	0.19	2.37

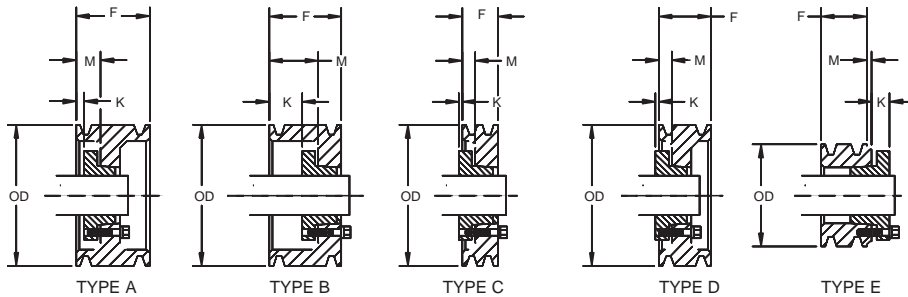
Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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8V QD SHEAVES



10-Groove F = 11.63

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	455472	10/8V12.5-J	133	A1	3.56	1.96
13.2	455473	10/8V13.2-J	148	A1	3.56	1.96
14.0	455474	10/8V14.0-J	166	A2	3.56	1.96
15.0	455475	10/8V15.0-M	224	A2	3.94	2.20
16.0	455476	10/8V16.0-M	260	A2	3.94	2.20
17.0	455477	10/8V17.0-M	241	A1	3.94	2.20
18.0	455478	10/8V18.0-M	259	A2	3.94	2.20
19.0	455479	10/8V19.0-M	279	A2	3.94	2.20
20.0	455480	10/8V20.0-M	300	A2	3.94	2.20
21.2	455481	10/8V21.2-M	286	A3	3.94	2.20
22.4	455482	10/8V22.4-N	321	A3	2.25	0.20
24.8	456668	10/8V24.8-N	357	A3	2.25	0.20
30.0	455483	10/8V30.0-N	444	A3	2.25	0.20
35.5	456669	10/8V35.5-P	591	A3	2.63	0.33
40.0	455484	10/8V40.0-P	680	A3	2.63	0.33
44.5	456670	10/8V44.5-P	775	A3	2.63	0.33
53.0	455485	10/8V53.0-P	971	A3	2.63	0.33
63.0	456671	10/8V63.0-W	1256	D3	1.31	1.25
71.0	456692	10/8V71.0-W	1482	D3	1.31	1.25

12-Groove F = 13.88

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.5	456672	12/8V12.5-M	164	A1	3.94	2.20
13.2	456673	12/8V13.2-M	186	A1	3.94	2.20
14.0	456674	12/8V14.0-M	213	A1	3.94	2.20
15.0	456675	12/8V15.0-M	248	A2	3.94	2.20
16.0	456676	12/8V16.0-M	285	A1	3.94	2.20
17.0	456677	12/8V17.0-M	270	A1	3.94	2.20
18.0	456678	12/8V18.0-M	292	A2	3.94	2.20
19.0	456679	12/8V19.0-N	330	A2	2.25	0.20
20.0	456680	12/8V20.0-N	354	A2	2.25	0.20
21.2	456681	12/8V21.2-N	365	A3	2.25	0.20
22.4	456682	12/8V22.4-N	367	A3	2.25	0.20
24.8	456683	12/8V24.8-N	408	A3	2.25	0.20
30.0	456684	12/8V30.0-P	557	A3	2.63	0.32
35.5	456685	12/8V35.5-P	671	A3	2.63	0.32
40.0	456686	12/8V40.0-P	776	A3	2.63	0.32
44.5	456687	12/8V44.5-P	887	A3	2.63	0.32
53.0	456688	12/8V53.0-W	1150	A3	2.88	0.32
63.0	456689	12/8V63.0-W	1445	D3	2.44	0.12
71.0	456693	12/8V71.0-W	1706	D3	2.44	0.12

Δ Pitch diameter = O.D. - .20"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.



SELECTION/DIMENSIONS



TORQUE-TAMER

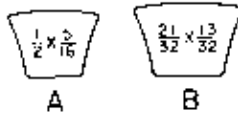
Bushings

V-Drives

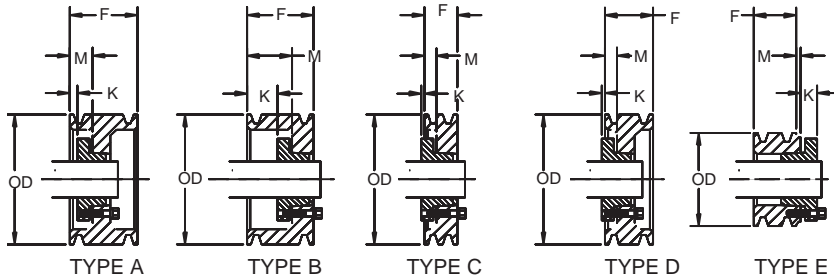
FHP

Drives Component Accessories

A/B QD SHEAVES



Drawing illustrates how either A or B belts may be used with combination groove sheaves.



1-Groove F = .84 A3.2 thru A4.0 B4.4

		Balance F = 1					
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K	
3.75	118283	1A3.0B3.4-SH	2.0	E1	0.44	0.68	
3.95	118284	1A3.2B3.6-SH	2.2	D1	0.05	0.63	
4.15	118285	1A3.4B3.8-SH	2.4	D1	0.05	0.63	
4.35	118286	1A3.6B4.0-SH	2.7	D1	0.05	0.63	
4.55	455550	1A3.8B4.2-SH	2.9	D1	0.05	0.63	
4.75	455551	1A4.0B4.4-SH	3.4	D1	0.05	0.63	
4.95	455552	1A4.2B4.6-SDS	4.0	D1	0.14	0.55	
5.15	455553	1A4.4B4.8-SDS	4.0	D1	0.14	0.55	
5.35	455554	1A4.6B5.0-SDS	4.0	D1	0.14	0.55	
5.55	455555	1A4.8B5.2-SDS	5.0	D1	0.14	0.55	
5.75	455556	1A5.0B5.4-SDS	5.0	D1	0.14	0.55	
5.95	455557	1A5.2B5.6-SDS	6.0	C1	0.25	0.45	
6.15	455558	1A5.4B5.8-SDS	6.0	C1	0.25	0.45	
6.35	455559	1A5.6B6.0-SDS	6.0	C1	0.25	0.45	
6.55	455560	1A5.8B6.2-SDS	6.0	C1	0.25	0.45	
6.75	455561	1A6.0B6.4-SDS	6.0	C1	0.25	0.45	
6.95	455562	1A6.2B6.6-SDS	7.0	C1	0.25	0.45	
7.15	455563	1A6.4B6.8-SDS	7.0	C1	0.25	0.45	
7.35	455564	1A6.6B7.0-SDS	7.5	D1	0.13	0.57	
7.75	455565	1A7.0B7.4-SDS	8.0	C1	0.25	0.45	
8.35	455566	1A7.6B8.0-SDS	8.0	D1	0.13	0.57	
8.95	455567	1A8.2B8.6-SDS	8.0	D2	0.13	0.57	
9.75	455568	1A9.0B9.4-SDS	8.0	D2	0.13	0.57	
11.35	455569	1A10.6B11.0-SDS	10.0	D2	0.13	0.57	
12.75	455570	1A12.0B12.4-SDS	11.0	D3	0.13	0.57	
13.95	455571	1A13.2B13.6-SDS	13.0	D3	0.06	0.63	
15.75	455572	1A15.0B15.4-SK	16.0	C3	0.06	0.83	
16.35	455573	1A15.6B16.0-SK	17.0	C3	0	0.89	
18.75	455574	1A18.0B18.4-SK	18.0	C3	0	0.89	
20.35	455575	1B20.0-SK	18.0	C3	0	0.89	

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. + .01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

2-Groove F = 1.75

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
3.75	455576	2A3.0B3.4-SH	3.2	E1	0.38	0.68
3.95	455577	2A3.2B3.6-SH	3.4	E1	0	0.68
4.15	455578	2A3.4B3.8-SH	3.9	E1	0	0.68
4.35	455579	2A3.6B4.0-SH	3.8	A1	0.94	0.26
4.55	455580	2A3.8B4.2-SH	4.4	A1	0.94	0.26
4.75	455581	2A4.0B4.4-SH	4.6	A1	0.94	0.26
4.95	455582	2A4.2B4.6-SDS	5.0	A1	1.00	0.30
5.15	455583	2A4.4B4.8-SDS	4.1	A1	1.00	0.30
5.35	455584	2A4.6B5.0-SDS	6.0	A1	1.00	0.30
5.55	455585	2A4.8B5.2-SDS	7.0	A1	1.00	0.30
5.75	455586	2A5.0B5.4-SDS	7.0	A1	1.00	0.30
5.95	455587	2A5.2B5.6-SDS	7.0	A1	0.81	0.12
6.15	455588	2A5.4B5.8-SDS	7.0	D1	0.69	0.01
6.35	455589	2A5.6B6.0-SDS	7.0	D1	0.69	0.01
6.55	455590	2A5.8B6.2-SDS	6.3	D1	0.69	0.01
6.75	455591	2A6.0B6.4-SDS	8.0	D1	0.69	0.01
6.95	455592	2A6.2B6.6-SDS	8.2	D1	0.69	0.01
7.15	455593	2A6.4B6.8-SDS	9.0	D1	0.69	0.01
7.35	455594	2A6.6B7.0-SK	10.0	C1	0.50	0.39
7.75	455595	2A7.0B7.4-SK	11.0	C1	0.50	0.39
8.35	455596	2A7.6B8.0-SK	11.0	D2	0.44	0.46
8.95	455597	2A8.2B8.6-SK	12.0	D2	0.44	0.46
9.75	455598	2A9.0B9.4-SK	12.0	D2	0.44	0.46
11.35	455599	2A10.6B11.0-SK	14.0	D2	0.44	0.46
12.75	455600	2A12.0B12.4-SK	18.0	D3	0.44	0.46
13.95	455601	2A13.2B13.6-SK	19.0	D3	0.38	0.52
15.75	455602	2A15.0B15.4-SK	24.0	D3	0.44	0.46
16.35	455603	2A15.6B16.0-SK	22.0	D3	0.44	0.46
18.75	455604	2A18.0B18.4-SK	29.0	D3	0.31	0.58
20.35	455605	2B20.0-SF	30.0	D3	0.38	0.57
25.35	455606	2B25.0-SF	40.0	D3	0.38	0.57
30.35	455607	2B30.0-SF	50.0	D3	0.38	0.57
38.35	455608	2B38.0-SF	70.0	D3	0.34	0.60

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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A/B QD SHEAVES



Drawing illustrates how either A or B belts may be used with combination groove sheaves.

3-Groove F = 2.50

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
3.75	455609	3A3.0B3.4-SH	4.2	E1	0.38	0.68
3.95	455610	3A3.2B3.6-SH	4.7	E1	0	0.68
4.15	455611	3A3.4B3.8-SH	5.4	E1	0	0.68
4.35	455612	3A3.6B4.0-SH	4.8	E1	0	0.68
4.55	455613	3A3.8B4.2-SH	5.4	E1	0	0.68
4.75	455614	3A4.0B4.4-SH	5.6	E1	0	0.68
4.95	455615	3A4.2B4.6-SD	8.0	A1	1.06	0.37
5.15	455616	3A4.4B4.8-SD	8.5	A1	1.06	0.67
5.35	455617	3A4.6B5.0-SD	9.0	A1	1.06	0.67
5.55	455618	3A4.8B5.2-SD	9.0	A1	1.06	0.37
5.75	455619	3A5.0B5.4-SD	10.0	A1	1.06	0.37
5.95	455620	3A5.2B5.6-SD	11.0	A1	1.06	0.37
6.15	455621	3A5.4B5.8-SD	9.1	A1	1.06	0.37
6.35	455622	3A5.6B6.0-SD	10.0	A1	1.06	0.37
6.55	455623	3A5.8B6.2-SD	11.0	A1	1.06	0.37
6.75	455624	3A6.0B6.4-SD	11.0	A1	1.06	0.37
6.95	455625	3A6.2B6.6-SD	12.0	A1	1.06	0.37
7.15	455626	3A6.4B6.8-SD	13.0	A1	1.06	0.37
7.35	455627	3A6.6B7.0-SK	13.0	D1	0.75	0.14
7.75	455628	3A7.0B7.4-SK	13.0	D1	0.75	0.14
8.35	455629	3A7.6B8.0-SK	14.0	D1	0.88	0.02
8.95	455630	3A8.2B8.6-SK	13.0	D1	0.88	0.02
9.75	455631	3A9.0B9.4-SK	16.0	D2	0.75	0.14
11.35	455632	3A10.6B11.0-SK	19.0	D2	0.75	0.14
12.75	455633	3A12.0B12.4-SK	24.0	D3	0.75	0.14
13.95	455634	3A13.2B13.6-SK	24.0	D3	0.69	0.21
15.75	455635	3A15.0B15.4-SK	30.0	D3	0.75	0.14
16.35	455636	3A15.6B16.0-SK	27.0	D3	0.75	0.14
18.75	455637	3A18.0B18.4-SK	38.0	D3	0.75	0.14
20.35	455638	3B20.0-SF	38.0	D3	0.63	0.32
25.35	455639	3B25.0-SF	51.0	D3	0.63	0.32
30.35	455640	3B30.0-SF	65.0	D3	0.63	0.32
38.35	455641	3B38.0-E	95.0	D3	0.63	0.57

Δ P.D. for "A" Belts = O.D. - .37"

P.D. for "B" Belts = O.D. + .01"

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

4-Groove F = 3.25

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
3.75	455642	4A3.0B3.4-SD	5.5	E1	0.47	0.70
3.95	455643	4A3.2B3.6-SD	5.8	E1	0.47	0.70
4.15	455644	4A3.4B3.8-SD	6.2	E1	0.47	0.70
4.35	455645	4A3.6B4.0-SD	6.6	E1	0	0.70
4.55	455646	4A3.8B4.2-SD	6.9	E1	0	0.70
4.75	455647	4A4.0B4.4-SD	7.5	E1	0	0.70
4.95	455648	4A4.2B4.6-SD	7.5	A1	1.50	0.80
5.15	455649	4A4.4B4.8-SD	7.3	A1	1.50	0.80
5.35	455650	4A4.6B5.0-SD	10.0	A1	1.50	0.80
5.55	455651	4A4.8B5.2-SD	11.0	A1	1.50	0.80
5.75	455652	4A5.0B5.4-SD	11.0	A1	1.50	0.80
5.95	455653	4A5.2B5.6-SD	12.0	A1	1.50	0.80
6.15	455654	4A5.4B5.8-SD	11.0	A1	1.50	0.80
6.35	455655	4A5.6B6.0-SD	11.0	A1	1.50	0.80
6.55	455656	4A5.8B6.2-SD	14.0	A1	1.50	0.80
6.75	455657	4A6.0B6.4-SD	14.0	A1	1.50	0.80
6.95	455658	4A6.2B6.6-SD	14.0	A1	1.50	0.80
7.15	455659	4A6.4B6.8-SD	14.0	A1	1.50	0.80
7.35	455660	4A6.6B7.0-SK	14.0	A1	1.00	0.11
7.75	455661	4A7.0B7.4-SK	15.0	A1	1.25	0.36
8.35	455662	4A7.6B8.0-SK	15.0	A1	1.38	0.48
8.95	455663	4A8.2B8.6-SK	17.0	A1	1.50	0.61
9.75	455664	4A9.0B9.4-SK	19.0	A2	1.13	0.23
11.35	455665	4A10.6B11.0-SK	22.0	A2	1.00	0.11
12.75	455666	4A12.0B12.4-SK	29.0	A3	1.00	0.11
13.95	455667	4A13.2B13.6-SK	29.0	A3	1.00	0.11
15.75	455668	4A15.0B15.4-SF	39.0	A3	1.13	0.18
16.35	455669	4A15.6B16.0-SF	34.0	A3	1.00	0.06
18.75	455670	4A18.0B18.4-SF	47.0	A3	1.00	0.06
20.35	455671	4B20.0-SF	46.0	A3	1.00	0.06
25.35	455672	4B25.0-E	66.0	D3	1.00	0.20
30.35	455673	4B30.0-E	83.0	D3	0.63	0.57
38.35	455674	4B38.0-E	115.0	D3	1.00	0.20

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

BELTS PAGES PT7-28 - PT7-41	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION/DIMENSIONS



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A/B QD SHEAVES

5-Groove		F = 4.00				
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
3.75	455675	5A3.0B3.4-SD	5.9	E1	0.47	0.70
3.95	455676	5A3.2B3.6-SD	6.5	E1	0.47	0.70
4.15	455677	5A3.4B3.8-SD	7.2	E1	0.47	0.70
4.35	455678	5A3.6B4.0-SD	7.3	E1	0	0.70
4.55	455679	5A3.8B4.2-SD	8.0	E1	0	0.70
4.75	455680	5A4.0B4.4-SD	8.8	E1	0	0.70
4.95	455681	5A4.2B4.6-SD	9.0	A1	1.31	0.62
5.15	455682	5A4.4B4.8-SD	8.5	A1	1.31	0.62
5.35	455683	5A4.6B5.0-SD	11.0	A1	1.31	0.62
5.55	455684	5A4.8B5.2-SD	12.0	A1	1.31	0.62
5.75	455685	5A5.0B5.4-SK	12.0	A1	1.31	0.42
5.95	455686	5A5.2B5.6-SK	12.0	A1	1.31	0.42
6.15	455687	5A5.4B5.8-SK	13.0	A1	1.31	0.42
6.35	455688	5A5.6B6.0-SK	14.0	A1	1.31	0.42
6.55	455689	5A5.8B6.2-SK	13.0	A1	1.31	0.42
6.75	455690	5A6.0B6.4-SK	16.0	A1	1.31	0.42
6.95	455691	5A6.2B6.6-SK	15.0	A1	1.31	0.42
7.15	455692	5A6.4B6.8-SK	17.0	A1	1.31	0.42
7.35	455693	5A6.6B7.0-SF	16.0	A1	1.31	0.37
7.75	455694	5A7.0B7.4-SF	20.0	A1	1.31	0.37
8.35	455695	5A7.6B8.0-SF	17.0	A1	1.31	0.37
8.95	455696	5A8.2B8.6-SF	24.0	A1	1.31	0.37
9.75	455697	5A9.0B9.4-SF	24.0	A1	1.31	0.37
11.35	455698	5A10.6B11.0-SF	29.0	A2	1.31	0.37
12.75	455699	5A12.0B12.4-SF	34.0	A3	1.06	0.12
13.95	455700	5A13.2B13.6-SF	33.0	A3	1.31	0.37
15.75	455701	5A15.0B15.4-SF	46.0	A3	1.31	0.37
16.35	455702	5A15.6B16.0-SF	38.0	A2	1.25	0.31
18.75	455703	5A18.0B18.4-SF	55.0	A3	1.31	0.37
20.35	455704	5B20.0-E	58.0	A3	1.25	0.05
25.35	455705	5B25.0-E	76.0	A3	1.25	0.05
30.35	455706	5B30.0-E	97.0	A3	1.25	0.05
38.35	455707	5B38.0-E	135.0	A3	1.25	0.05

6-Groove		F = 4.75				
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
3.75	455708	6A3.0B3.4-SD	6.7	E1	0.38	0.70
3.95	455709	6A3.2B3.6-SD	7.4	E1	0.38	0.70
4.15	455710	6A3.4B3.8-SD	8.0	E1	0.38	0.70
4.35	455711	6A3.6B4.0-SD	8.4	E1	0	0.70
4.55	455712	6A3.8B4.2-SD	9.0	E1	0	0.70
4.75	455713	6A4.0B4.4-SD	10.0	E1	0	0.70
4.95	455714	6A4.2B4.6-SD	10.0	A1	1.31	0.62
5.15	455715	6A4.4B4.8-SD	10.0	A1	1.31	0.62
5.35	455716	6A4.6B5.0-SD	12.0	A1	1.31	0.62
5.55	455717	6A4.8B5.2-SD	13.0	A1	1.31	0.62
5.75	455718	6A5.0B5.4-SK	13.0	A1	1.31	0.42
5.95	455719	6A5.2B5.6-SK	14.0	A1	1.31	0.42
6.15	455720	6A5.4B5.8-SK	12.0	A1	1.31	0.42
6.35	455721	6A5.6B6.0-SK	15.0	A1	1.31	0.42
6.55	455722	6A5.8B6.2-SK	15.0	A1	1.31	0.42
6.75	455723	6A6.0B6.4-SK	17.0	A1	1.31	0.42
6.95	455724	6A6.2B6.6-SK	17.0	A1	1.31	0.42
7.15	455725	6A6.4B6.8-SK	19.0	A1	1.31	0.42
7.35	455726	6A6.6B7.0-SF	18.0	A1	1.69	0.75
7.75	455727	6A7.0B7.4-SF	22.0	A1	1.69	0.75
8.35	455728	6A7.6B8.0-SF	23.0	A1	1.69	0.75
8.95	455729	6A8.2B8.6-SF	26.0	A1	1.69	0.75
9.75	455730	6A9.0B9.4-SF	27.0	A1	1.69	0.75
11.35	455731	6A10.6B11.0-SF	32.0	A2	1.69	0.75
12.75	455732	6A12.0B12.4-SF	39.0	A3	1.50	0.56
13.95	455733	6A13.2B13.6-SF	38.0	A3	1.69	0.75
15.75	455734	6A15.0B15.4-SF	50.0	A2	1.81	0.87
16.35	455735	6A15.6B16.0-SF	44.0	A2	1.81	0.87
18.75	455736	6A18.0B18.4-SF	62.0	A3	1.75	0.81
20.35	455737	6B20.0-E	65.0	A3	1.38	0.18
25.35	455738	6B25.0-E	87.0	A3	1.38	0.18
30.35	455739	6B30.0-E	111.0	A3	1.38	0.18
38.35	455740	6B38.0-E	155.0	A3	1.38	0.18

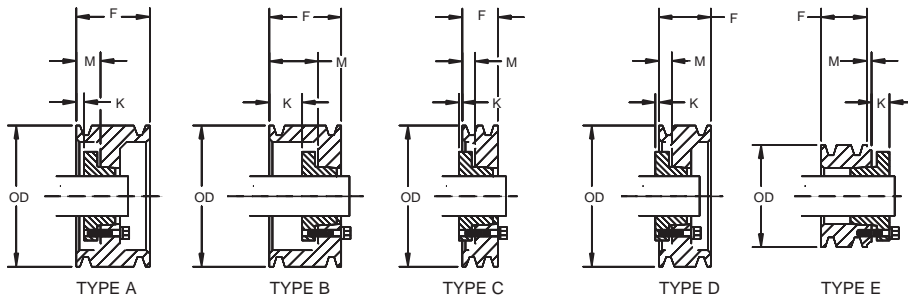
8-Groove		F = 6.25				
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
5.8	455741	8B5.4-SK	15.0	A1	1.88	0.98
6.0	455742	8B5.6-SK	16.0	A1	1.88	0.98
6.4	455743	8B6.0-SK	21.0	A1	1.81	0.87
6.8	455744	8B6.4-SF	23.0	A1	1.81	0.87
7.2	455745	8B6.8-SF	25.0	A1	1.25	0.31
7.8	455746	8B7.4-SF	28.0	A1	1.25	0.31
9.0	455747	8B8.6-E	40.0	A1	2.38	1.18
9.8	455748	8B9.4-E	43.0	A1	2.38	1.18
11.4	455749	8B11.0-E	49.0	A1	2.38	1.18
12.8	455750	8B12.4-E	56.0	A2	2.38	1.18
15.8	455751	8B15.4-E	69.0	A2	2.38	1.18
18.8	455752	8B18.4-F	91.0	D3	1.31	0.11
20.4	455753	8B20.0-F	84.0	D3	1.31	0.11
25.4	455754	8B25.0-F	111.0	D3	1.31	0.11
30.4	455755	8B30.0-F	142.0	D3	1.31	0.11
38.4	455756	8B38.0-F	200.0	D3	1.31	0.11

10-Groove		F = 7.75				
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
5.8	455757	10B5.4-SK	18.0	A1	3.25	2.36
6.0	455758	10B5.6-SK	19.0	A1	3.50	2.61
6.4	455759	10B6.0-SF	24.0	A1	3.25	2.31
6.8	455760	10B6.4-SF	26.0	A1	3.50	2.56
7.2	455761	10B6.8-SF	28.0	A1	3.00	2.06
7.8	455762	10B7.4-SF	32.0	A1	2.56	1.62
9.0	455763	10B8.6-E	47.0	A1	3.13	1.93
9.8	455764	10B9.4-E	48.0	A1	3.13	1.93
11.4	455765	10B11.0-E	56.0	A1	3.13	1.93
12.8	455766	10B12.4-F	64.0	A1	3.13	1.70
15.8	455767	10B15.4-F	88.0	A2	2.06	0.64
18.8	455768	10B18.4-F	103.0	A3	2.06	0.64
20.4	455769	10B20.0-F	99.0	A3	2.06	0.64
25.4	455770	10B25.0-F	132.0	A3	2.06	0.64
30.4	455771	10B30.0-F	169.0	A3	2.06	0.64
38.4	455772	10B38.0-J	257.0	D3	1.44	0.16

Δ P.D. for "A" Belts = O.D. - .37"
 P.D. for "B" Belts = O.D. + .01"
 † Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.



C QD SHEAVES



1-Groove F = 1.38

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
7.4	455773	1C7.0-SF	9.0	C1	0.13	0.82
7.9	455774	1C7.5-SF	11.0	C1	0.13	0.82
8.4	455775	1C8.0-SF	11.0	C1	0.13	0.82
8.9	455776	1C8.5-SF	12.0	C1	0.13	0.82
9.4	455777	1C9.0-SF	12.0	C1	0.13	0.82
9.9	455778	1C9.5-SF	13.0	C1	0.13	0.82
10.4	455779	1C10.0-SF	14.0	C2	0.13	0.82
10.9	455780	1C10.5-SF	14.0	C2	0.13	0.82
11.4	455781	1C11.0-SF	16.0	C2	0.13	0.82
12.4	455782	1C12.0-SF	17.0	C2	0.13	0.82
13.4	455783	1C13.0-SF	19.0	C3	0.13	0.82
14.4	455784	1C14.0-SF	21.0	C3	0.13	0.82
16.4	455785	1C16.0-SF	24.0	C3	0.13	0.82
18.4	455786	1C18.0-SF	27.0	C3	0.13	0.82
20.4	455787	1C20.0-SF	31.0	C3	0.13	0.82
24.4	455788	1C24.0-SF	38.0	C3	0.13	0.82

3-Groove F = 3.38

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
5.4	455806	+3C5.0-SD	9.0	A1	1.31	0.62
5.9	455807	+3C5.5-SD	10.0	A1	1.31	0.62
6.4	455808	+3C6.0-SF	10.0	A1	1.31	0.37
7.4	455809	3C7.0-SF	20.0	A1	1.13	0.18
7.9	455810	3C7.5-SF	23.0	A1	1.31	.037
8.4	455811	3C8.0-E	33.0	B1	1.75	0.55
8.9	455812	3C8.5-E	35.0	B1	1.75	0.55
9.4	455813	3C9.0-E	36.0	B1	1.75	0.55
9.9	455814	3C9.5-E	37.0	B1	1.75	0.55
10.4	455815	3C10.0-E	39.0	B1	1.75	0.55
10.9	455816	3C10.5-E	39.0	B1	1.75	0.55
11.4	455817	3C11.0-E	40.0	B1	1.75	0.55
12.4	455818	3C12.0-E	43.0	B2	1.75	0.55
13.4	455819	3C13.0-E	45.0	B3	1.75	0.55
14.4	455820	3C14.0-E	51.0	B3	1.75	0.55
16.4	455821	3C16.0-E	59.0	A3	1.31	0.12
18.4	455822	3C18.0-E	55.0	D3	0.81	0.38
20.4	455823	3C20.0-E	60.0	D3	1.00	0.20
24.4	455824	3C24.0-E	75.0	D3	1.00	0.20
27.4	456013	3C27.0-F	91.0	D3	0.81	0.61
30.4	455825	3C30.0-F	104.0	D3	0.81	0.61
36.4	455826	3C36.0-F	133.0	D3	0.81	0.61
44.4	455827	3C44.0-F	176.0	D3	0.81	0.61
50.4	455828	3C50.0-F	211.0	D3	0.81	0.61

Δ Pitch Diameter = O.D.
 ‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.
 + Recommended CX Belt only

2-Groove F = 2.37

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
7.4	455789	2C7.0-SF	18.0	D1	0.81	0.13
7.9	455790	2C7.5-SF	20.0	D1	0.81	0.13
8.4	455791	2C8.0-SF	19.0	D1	0.81	0.13
8.9	455792	2C8.5-SF	20.0	D1	0.81	0.13
9.4	455793	2G9.0-SF	21.0	D1	0.81	0.13
9.9	455794	2C9.5-SF	22.0	D1	0.81	0.13
10.4	455795	2C10.0-SF	23.0	D2	0.81	0.13
10.9	455796	2C10.5-SF	23.0	D2	0.81	0.13
11.4	455797	2C11.0-SF	25.0	D2	0.81	0.13
12.4	455798	2C12.0-SF	27.0	D2	0.56	0.38
13.4	455799	2C13.0-SF	29.0	D3	0.56	0.38
14.4	455800	2C14.0-SF	34.0	D3	0.56	0.38
16.4	455801	2C16.0-SF	39.0	D3	0.63	0.32
18.4	455802	2C18.0-SF	39.0	D2	0.63	0.32
20.4	455803	2C20.0-SF	43.0	D3	0.56	0.38
24.4	455804	2C24.0-SF	55.0	D3	0.56	0.38
27.4	456012	2C27.0-F	72.0	C3	0.56	0.86
30.4	456805	2C30.0-F	82.0	C3	0.56	0.86

4-Groove F = 4.37

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
5.4	455829	+4C5.0-SD	11.0	A1	1.56	0.87
5.9	455830	+4C5.5-SD	12.0	A1	1.56	0.87
6.4	455831	+4C6.0-SF	11.0	A1	1.56	0.62
7.4	455832	4C7.0-SF	23.0	A1	1.56	0.62
7.9	455833	4C7.5-SF	25.0	A1	1.50	0.56
8.4	455834	4C8.0-E	36.0	A1	2.00	0.80
8.9	455835	4C8.5-E	39.0	A1	2.00	0.80
9.4	455836	4C9.0-E	39.0	A1	2.13	0.93
9.9	455837	4C9.5-E	41.0	A1	2.00	0.80
10.4	455838	4C10.0-E	43.0	A1	2.13	0.93
10.9	455839	4C10.5-E	44.0	A1	2.13	0.93
11.4	455840	4C11.0-E	46.0	A1	2.13	0.93
12.4	455841	4C12.0-E	50.0	A2	2.13	0.93
13.4	455842	4C13.0-E	53.0	A3	2.00	0.80
14.4	455843	4C14.0-E	59.0	A2	1.81	0.62
16.4	455844	4C16.0-E	69.0	A3	1.94	0.74
18.4	455845	4C18.0-E	66.0	A3	1.88	0.68
20.4	455846	4C20.0-E	72.0	A3	1.50	0.30
24.4	455847	4C24.0-F	95.0	D3	1.31	0.11
27.4	456014	4C27.0-F	110.0	D3	1.31	0.11
30.4	455848	4C30.0-F	126.0	D3	1.31	0.11
36.4	455849	4C36.0-F	162.0	D3	1.31	0.11
44.4	455850	4C44.0-F	236.0	D3	1.19	0.41
50.4	455851	4C50.0-J	279.0	D3	1.56	0.04

BELTS PAGES PT7-28 - PT7-41	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION/DIMENSIONS



TORQUE-TAMER

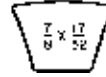
Bushings

V-Drives

FHP

Drives Component Accessories

C QD SHEAVES



C Belt Profile

5-Groove F = 5.37						
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
6.4	455852	+5C6.0-SF	13.0	A1	1.94	1.00
7.4	455853	5C7.0-SF	26.0	A1	1.25	0.31
7.9	455854	5C7.5-SF	28.0	A1	1.88	0.93
8.4	455855	5C8.0-E	39.0	A1	1.50	0.30
8.9	455856	5C8.5-E	42.0	A1	1.63	0.43
9.4	455857	5C9.0-E	43.0	A1	1.63	0.43
9.9	455858	5C9.5-E	45.0	A1	1.50	0.30
10.4	455859	5C10.0-E	48.0	A1	1.50	0.30
10.9	455860	5C10.5-E	50.0	A1	1.50	0.30
11.4	455861	5C11.0-E	52.0	A1	2.25	1.05
12.4	455862	5C12.0-E	57.0	A1	2.22	1.02
13.4	455863	5C13.0-E	61.0	A2	2.00	0.80
14.4	455864	5C14.0-E	69.0	A2	2.00	0.80
16.4	455865	5C16.0-E	79.0	A3	2.00	0.80
18.4	455866	5C18.0-E	74.0	A3	2.38	1.18
20.4	455867	5C20.0-F	88.0	D3	1.31	0.11
24.4	455868	5C24.0-F	110.0	D3	1.31	0.11
27.4	456083	5C27.0-F	128.0	D3	1.31	0.11
30.4	455869	5C30.0-F	148.0	D3	1.31	0.11
36.4	455870	5C36.0-J	212.0	D3	1.31	0.29
44.4	455871	5C44.0-J	274.0	D3	1.31	0.29
50.0	455872	5C50.0-J	325.0	D3	1.56	0.04

8-Groove F = 8.37						
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
7.4	455894	8C7.0-SF	32.0	A1	4.00	3.06
8.4	455895	8C8.0-E	49.0	A1	3.25	2.05
8.9	455896	8C8.5-E	53.0	A1	3.25	2.05
9.4	455897	8C9.0-F	68.0	A1	2.50	1.08
9.9	455898	8C9.5-F	74.0	A1	2.50	1.08
10.4	455899	8C10.0-F	73.0	A1	2.50	1.08
10.9	455900	8C10.5-F	74.0	A1	2.50	1.08
11.4	455901	8C11.0-F	78.0	A1	3.38	1.95
12.4	455902	8C12.0-F	86.0	A1	3.38	1.95
13.4	455903	8C13.0-F	93.0	A1	3.38	1.95
14.4	455904	8C14.0-F	102.0	A1	3.38	1.95
16.4	455905	8C16.0-F	116.0	A3	3.38	1.95
18.4	455906	8C18.0-F	133.0	A3	3.63	2.20
20.4	455907	8C20.0-J	147.0	D3	1.56	0.04
24.4	455908	8C24.0-J	179.0	D3	1.56	0.04
27.4	456085	8C27.0-J	205.0	D3	1.56	0.04
30.4	455909	8C30.0-J	233.0	D3	1.56	0.04
36.4	455910	8C36.0-M	339.0	A3	1.94	0.20
44.4	455911	8C44.0-M	428.0	A3	1.94	0.20
50.4	455912	8C50.0-M	502.0	A3	1.94	0.20

12-Groove F = 12.37						
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
9.4	455930	12C9.0-J	92.0	A1	4.06	2.46
9.9	455931	12C9.5-J	100.0	A1	4.06	2.46
10.4	455932	12C10.0-J	108.0	A1	4.06	2.46
10.9	455933	12C10.5-J	115.0	A1	4.06	2.46
11.4	455934	12C11.0-J	125.0	A1	4.06	2.46
12.4	455935	12C12.0-J	127.0	A1	4.06	2.46
13.4	455936	12C13.0-J	135.0	A1	4.06	2.46
14.4	455937	12C14.0-J	145.0	A1	4.06	2.46
16.4	455938	12C16.0-J	165.0	A2	4.06	2.46
18.4	455939	12C18.0-J	198.0	A3	4.06	2.46
20.4	455940	12C20.0-M	277.0	A3	1.94	0.20
24.4	455941	12C24.0-M	287.0	A3	1.94	0.20
30.4	455942	12C30.0-M	362.0	A3	1.94	0.20
36.4	455943	12C36.0-M	446.0	A3	1.94	0.20
44.4	455944	12C44.0-M	572.0	A3	1.94	0.20
50.4	455945	12C50.0-M	676.0	A3	1.94	0.20

6-Groove F = 6.37						
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
6.4	455873	+6C6.0-SF	15.0	A1	1.94	1.00
7.4	455874	6C7.0-SF	29.0	A1	1.94	1.00
7.9	455875	6C7.5-SF	31.0	A1	1.94	1.18
8.4	455876	6C8.0-E	42.0	A1	2.38	1.18
8.9	455877	6C8.5-E	46.0	A1	2.38	1.02
9.4	455878	6C9.0-F	60.0	A1	2.44	1.02
9.9	455879	6C9.5-F	66.0	A1	2.44	1.02
10.4	455880	6C10.0-F	64.0	A1	2.44	1.02
10.9	455881	6C10.5-F	65.0	A1	2.44	1.02
11.4	455882	6C11.0-F	68.0	A1	2.44	1.02
12.4	455883	6C12.0-F	73.0	A1	2.44	1.02
13.4	455884	6C13.0-F	76.0	A2	2.50	1.08
14.4	455885	6C14.0-F	85.0	A2	2.44	1.02
16.4	455886	6C16.0-F	96.0	A3	2.44	1.02
18.4	455887	6C18.0-F	90.0	A3	2.63	1.20
20.4	455888	6C20.0-F	100.0	A3	1.94	0.52
24.4	455889	6C24.0-F	126.0	A3	1.94	0.52
27.4	456084	6C27.0-J	169.0	D3	0.56	0.04
30.4	455890	6C30.0-J	191.0	D3	1.56	0.04
36.4	455891	6C36.0-J	239.0	D3	1.56	0.04
44.4	455892	6C44.0-J	310.0	D3	1.56	0.04
50.4	455893	6C50.0-J	415.0	B3	1.94	0.34

10-Groove F = 10.37						
O.D.Δ	Part No.	Description	Wt.	Type†	M	K
8.4	455913	10C8.0-E	76.0	A1	3.25	2.05
8.9	455914	10C8.5-E	80.0	A1	3.25	2.05
9.4	455915	10C9.0-J	84.0	A1	3.56	1.96
9.9	455916	10C9.5-J	91.0	A1	3.56	1.96
10.4	455917	10C10.0-J	99.0	A1	3.56	1.96
10.9	455918	10C10.5-J	106.0	A1	3.56	1.96
11.4	455919	10C11.0-J	115.0	A1	3.56	1.96
12.4	455920	10C12.0-J	114.0	A1	3.56	1.96
13.4	456061	10C13.0-J	119.0	A1	3.56	1.96
14.4	455921	10C14.0-J	128.0	A1	3.63	2.02
16.4	455922	10C16.0-J	147.0	A1	3.56	1.96
18.4	455923	10C18.0-J	156.0	A3	3.56	1.96
20.4	455924	10C20.0-J	171.0	A3	3.56	1.96
24.4	455925	10C24.0-M	257.0	A3	1.94	0.20
30.4	455926	10C30.0-M	321.0	A3	1.94	0.20
36.4	455927	10C36.0-M	393.0	A3	1.94	0.20
44.4	455928	10C44.0-M	500.0	A3	1.94	0.20
50.4	455929	10C50.0-M	589.0	A3	1.94	0.20

Δ Pitch Diameter = O.D.

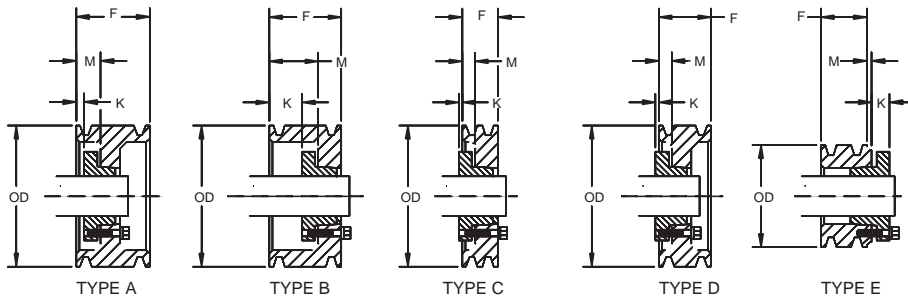
† Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

+ Recommended CX Belt only

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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D QD SHEAVES



3-Groove F = 4.62

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	455946	3D 12.0-F	83.0	A1	1.50	0.08
13.6	455947	3D 13.0-F	88.0	A1	1.50	0.08
14.1	455948	3D 13.5-F	88.0	A1	1.50	0.08
14.6	455949	3D 14.0-F	111.0	A1	1.50	0.08
15.1	455950	3D 14.5-F	111.0	A1	1.50	0.08
15.6	455951	3D 15.0-F	105.0	A2	1.50	0.08
16.1	455952	3D 15.5-F	105.0	A2	1.50	0.08
16.6	455953	3D 16.0-F	150.0	A2	1.50	0.08
18.6	455954	3D 18.0-J	146.0	D2	1.19	0.41
20.6	455955	3D 20.0-J	117.0	D2	1.19	0.41
22.6	455956	3D 22.0-J	128.0	D2	1.19	0.41
27.6	455957	3D 27.0-J	129.0	D3	1.19	0.41
33.6	455958	3D 33.0-J	200.0	D3	1.19	0.41

4-Groove F = 6.06

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	455960	4D 12.0-F	85.0	A1	2.31	0.89
13.6	455961	4D 13.0-F	76.0	A1	2.31	0.89
14.1	455962	4D 13.5-F	107.0	A1	2.31	0.89
14.6	455983	4D 14.0-F	106.0	A2	2.31	0.89
15.1	455964	4D 14.5-F	106.0	A2	2.31	0.89
15.6	455965	4D 15.0-F	110.0	A2	2.31	0.89
16.1	455966	4D 15.5-F	110.0	A2	2.31	0.89
16.6	455967	4D 16.0-F	150.0	A2	2.31	0.89
18.6	455968	4D 18.0-J	146.0	D2	1.56	0.04
20.6	455969	4D 20.0-J	137.0	D2	1.56	0.04
22.6	455970	4D 22.0-J	151.0	D2	1.56	0.04
27.6	455971	4D 27.0-J	190.0	D3	1.56	0.04
33.6	455972	4D 33.0-M	288.0	C3	1.06	0.68
40.6	455973	4D 40.0-M	354.0	C3	1.06	0.68
48.6	455974	4D 48.0-M	439.0	C3	1.06	0.68

5-Groove F = 7.50

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	455976	5D 12.0-F	98.0	A1	3.06	1.64
13.6	455977	5D 13.0-F	114.0	A1	3.06	1.64
14.1	455978	5D 13.5-F	134.0	A1	3.06	1.64
14.6	455979	5D 14.0-F	140.0	A1	3.06	1.64
15.1	455980	5D 14.5-F	140.0	A1	3.06	1.64
15.6	455981	5D 15.0-F	146.0	A2	3.06	1.64
16.1	455982	5D 15.5-F	146.0	A2	3.06	1.64
16.6	455983	5D 16.0-F	143.0	A2	3.06	1.64
18.6	455984	5D 18.0-J	164.0	D2	1.56	0.04
20.6	455985	5D 20.0-J	157.0	D2	0.69	0.91
22.6	455986	5D 22.0-J	174.0	D3	1.56	0.04
27.6	455987	5D 27.0-M	268.0	A3	1.94	0.20
33.6	455988	5D 33.0-M	329.0	A3	1.94	0.20
40.6	455989	5D 40.0-M	408.0	A3	1.94	0.20
48.6	455990	5D 48.0-M	510.0	A3	1.94	0.20

6-Groove F = 8.93

O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	455992	6D 12.0-J	126.0	A1	3.31	1.71
13.6	455993	6D 13.0-J	140.0	A1	3.31	1.71
14.1	455994	6D 13.5-J	140.0	A1	3.31	1.71
14.6	455995	6D 14.0-J	159.0	A1	3.31	1.71
15.1	455996	6D 14.5-J	162.0	A1	3.31	1.71
15.6	455997	6D 15.0-J	162.0	A2	3.31	1.71
16.1	455998	6D 15.5-J	162.0	A2	3.31	1.71
16.6	456000	6D 16.0-J	199.0	A1	3.88	2.27
18.6	456001	6D 18.0-J	223.0	A2	3.88	2.27
20.6	456002	6D 20.0-J	178.0	A2	3.88	2.27
22.6	456003	6D 22.0-M	246.0	A2	3.16	1.42
27.6	456004	6D 27.0-M	298.0	A3	1.94	0.20
33.6	456005	6D 33.0-M	369.0	A3	1.94	0.20
40.6	456006	6D 40.0-M	462.0	A3	1.94	0.20
48.6	456007	6D 48.0-M	581.0	A3	1.94	0.20
58.6	456008	6D 58.0-N	764.0	D3	1.34	0.71

Δ Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm - See page PT7-3.

TORQUE-TAMER

Bushings

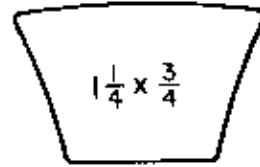
V-Drives

FHP

Drives Component Accessories



D QD SHEAVES



D

Belt Profile

8-Groove		F = 11.81				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	456009	8D 12.0-J	151.0	A1	3.56	1.96
13.6	456010	8D 13.0-J	168.0	A1	3.56	1.96
14.1	456011	8D 13.5-J	168.0	A1	3.56	1.96
14.6	456015	8D 14.0-J	181.0	A1	3.56	1.96
15.1	456016	8D 14.5-J	181.0	A1	3.56	1.96
15.6	456017	8D 15.0-J	216.0	A1	3.56	1.96
16.1	456018	8D 15.5-J	216.0	A1	3.56	1.96
16.6	456019	8D 16.0-J	237.0	A1	3.56	1.96
18.6	456020	8D 18.0-M	249.0	A2	4.19	2.45
20.6	456021	8D 20.0-M	299.0	A2	4.38	2.64
22.6	456022	8D 22.0-M	292.0	A2	2.34	0.60
27.6	456023	8D 27.0-M	360.0	A3	2.19	0.45
33.6	456024	8D 33.0-M	451.0	A3	1.94	0.20
40.6	456025	8D 40.0-N	588.0	A3	2.25	0.20
48.6	456026	8D 48.0-N	739.0	A3	2.25	0.20
58.6	456027	8D 58.0-N	950.0	D3	2.78	0.73

10-Groove		F = 14.68				
O.D.Δ	Part No.	Description	Wt.	Type‡	M	K
12.6	456028	10D 12.0-M	153.0	A1	3.94	2.20
13.6	456029	10D 13.0-M	180.0	A1	3.81	2.07
14.1	456030	10D 13.5-M	186.0	A1	3.94	2.20
14.6	456031	10D 14.0-M	221.0	A1	3.81	2.07
15.1	456032	10D 14.5-M	221.0	A1	3.81	2.07
15.6	456033	10D 15.0-M	247.0	A1	3.94	2.20
16.1	456034	10D 15.5-M	270.0	A1	3.94	2.20
16.6	456035	10D 16.0-M	267.0	A1	1.88	0.14
18.6	456036	10D 18.0-M	274.0	A1	3.88	2.14
20.6	456037	10D 20.0-M	341.0	A2	3.50	1.76
22.6	456038	10D 22.0-M	339.0	A2	2.94	1.20
27.6	456039	10D 27.0-M	422.0	A3	2.94	1.20
33.6	456040	10D 33.0-N	552.0	A3	3.25	1.20
40.6	456041	10D 40.0-N	696.0	A3	3.38	1.33
48.6	456042	10D 48.0-P	926.0	A3	2.63	0.32
58.6	456043	10D 58-P	1179.0	D3	3.72	1.42

Δ Pitch Diameter = O.D.

‡ Type 1 = Block Type, 2 = Web, 3 = Arm – See page PT7-3.

WARNING: The sheaves listed in this catalog must not be used with the high modulus belts unless approved by factory. Do not use with belt speeds exceeding 6500 fpm. May cause sheaves to fragment resulting in personal injury or property damage.



Custom-Made Sheaves & Sprockets

V-Belt Sheaves & Synchronous Sprockets

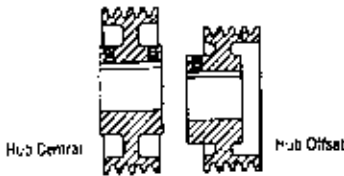
Standard stock products offer the best value for most power transmission operations. But, for requirements that cannot be served with stock products, DODGE manufactures custom-made sheaves and synchronous belt sprockets.

Custom Construction Options

- Non-stock pitch diameter
- Non-stock number of teeth
- Alternate hub location
- Special material: ductile, steel, etc.
- Alternate bushing or bore configuration for mounting product onto shaft
- Other non-standard requirements

Hub Locations

- Hub central
Typical for larger diameter products
- Hub offset
This location is preferred for wider face widths. It is positioned to accommodate the shaft and provides centralized sheave support
- Hub projection
- Required for access to setscrews on smaller bored-to-size products



Materials

Stock sheaves, as well as synchronous sprockets, are manufactured typically from high quality gray iron. Frequently specified alternate materials are shown below.

ALTERNATE MATERIALS		
MATERIAL	GRADE	MAX. RIM SPEED (FPM)
GRAY IRON:	-	6,500
DUCTILE IRON:	65-45-12	8,000
STEEL:	80-55-06	10,000
	-	10,000

Dynamic (two-plane) balance normally required for rim speeds above 6,500 feet per minute (FPM).

Drives that exceed 8,000 FPM should be reviewed by DODGE Engineering.



Synchronous Sprockets



V-Belt Sheaves

Mounting Styles

Bored-to-size

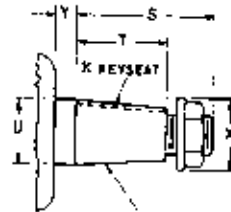
Required when rim diameter cannot accommodate the bushing that is required for the bore size. One keyseat, as well as one or two setscrews are usually specified.

Taper bushed

Specify TAPER-LOCK or QD bushing for required bore size. Verify that hub diameter accommodates bushing. Taper bushed mounting is preferred because this mounting compensates for variations in shaft diameter; provides tight, secure fit; and removes easily for servicing.

Taper bore

For use on taper shafts (sketch below). If hub is not central with face, specify which hub end takes large end of bore. Hub at small end will extend 1/8" beyond the "T" dimension. Keyways are standard size, as well as parallel with the taper, unless specified otherwise.





FEATURES/BENEFITS



V-Belts

V-drives have been the mainstay of industrial power transmission for over 60 years. During this time, DODGE has been a major influence, designing and developing innovative concepts in V-belt sheaves and supplying the highest quality belts.

Today's V-drives offer quiet, efficient mechanical power transmission. They provide many thousands of hours of performance, even under conditions of shock load and normal drive misalignment. All of these benefits come at an economic value that is unsurpassed.



D-V WEDGE BELTS 3VX-5VX-8V



- Oil resistant and static conducting
- Permits compact, lighter weight drives
- High-strength tension member delivers maximum power with minimum stretch
- Built for long-term dimensional stability
- Molded cog construction under 200-inch belt length

S-L CLASSIC V-BELTS A-B-C-D-E



- Cable cord envelope construction
- Cool running and flexible
- Strong tensile cords minimize stretch
- Static conducting and heat and oil resistant
- More tolerant of shock loads

CLASSIC COG V-BELTS AX-BX-CX-DX



- Deliver more horsepower and last longer than conventional belts...
- Fully notched cogs for maximum flexibility
 - High coefficient rubber edge
 - Oil resistant and static conducting
 - Proven energy-saving design
 - Outlasts conventional belts
 - Fewer belts required - drive weight is reduced

POLYBAND CLASSIC POLYBAND WEDGE V-BELTS



POLYBAND banded V-belts are engineered to handle those problem drives where vibration, sudden shock loads or misalignment causes belts to turn over, whip or jump off sheave. Two or more belts are inseparably joined together as one single unit. POLYBAND belts may be used without changing sheaves or altering the drive.



• NO JUMP OFF



• NO WHIP



• NO TURN OVER

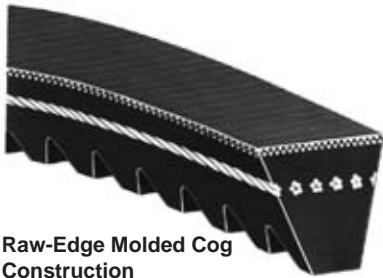
DOUBLE-V SEALED-LIFE (HEX)



- For serpentine drives
- Transmits power from both sides of belt
- Standard AA, BB, CC cross sections
- Runs in standard classical sheaves
- Oil resistant and static conducting



D-V Wedge Narrow Belts

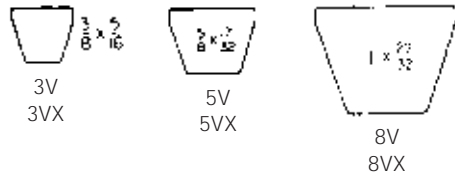


Raw-Edge Molded Cog Construction



Wrapped Construction

- Oil Resistant and Static Conducting
- Permits Compact, Lighter Weight Drives
- Hi-Strength Tension Member Delivers Maximum Power with Minimum Stretch
- Built for Long-Term Dimensional Stability.
- Matched to MPTA/RMA Standards. No additional matching or Matching Codes required.



3VX				5VX, 5V				8VX, 8V							
Belt No.	Part No.	Wt.	Lgth. Δ	Belt No.	Part No.	Wt.	Lgth. Δ	Belt No.	Part No.	Wt.	Lgth. Δ	Belt No.	Part No.	Wt.	Lgth. Δ
3VX250	107150	0.11	25	5VX450		0.51	45	5VX900	107180	1.04	90	8VX1000	107200	2.97	100
3VX265	107220	0.11	27	5VX470		0.54	47	5VX930		1.07	93	8VX1060	107219	3.50	106
3VX280	107151	0.12	28	5VX490		0.56	49	5VX950	107195	1.10	95	8VX1120	107201	3.35	112
3VX300	107229	0.12	30	5VX500	107175	0.57	50	5VX960		1.11	96	8VX1180	107240	3.65	118
3VX315	107152	0.14	31.5	5VX510		0.59	51	5VX1000	107181	1.16	100	8VX1250	107202	3.98	125
3VX335	107230	0.14	33.5	5VX530	107233	0.61	53	5VX1030		1.18	103	8VX1320	107241	4.05	132
3VX355	107153	0.16	35.5	5VX540		0.63	54	5VX1060	107196	1.23	106	8VX1400	107203	4.16	140
3VX375	107166	0.16	37.5	5VX550		0.63	55	5VX1080		1.24	108	8VX1500	107242	4.69	150
3VX400	107154	0.16	40	5VX560	107176	0.64	56	5VX1120	107182	1.30	112	8VX1600	107204	5.30	160
3VX425	107167	0.17	42.5	5VX570		0.66	57	5VX1150		1.33	115	8VX1700	107243	5.27	170
3VX450	107155	0.54	45	5VX580		0.67	58	5VX1160		1.34	116	8VX1800	107205	5.73	180
3VX475	107221	0.20	47.5	5VX590		0.68	59	5VX1180	107197	1.37	118	8VX1900	107244	5.81	190
3VX500	107156	0.22	50	5VX600	107234	0.69	60	5VX1230		1.42	123	8VX2000	107206	6.05	200
3VX530	107222	0.21	53	5VX610		0.70	61	5VX1250	107183	1.45	125	8V2120	107245	6.80	212
3VX560	107157	0.22	56	5VX630	107177	0.73	63	5VX1320	107224	1.53	132	8V2240	107207	7.25	224
3VX600	107168	0.24	60	5VX650		0.75	65	5VX1400	107184	1.62	140	8V2360	107215	7.65	236
3VX630	107158	0.27	63	5VX660		0.75	66	5VX1500	107225	1.74	150	8V2500	107208	7.97	250
3VX670	107169	0.29	67	5VX670	107235	0.77	67	5VX1600	107185	1.86	160	8V2650	107246	8.52	265
3VX710	107159	0.31	71	5VX680		0.78	68	5VX1700	107226	1.97	170	8V2800	107209	8.95	280
3VX750	107170	0.30	75	5VX690		0.80	69	5VX1800	107186	2.10	180	8V3000	107216	10.05	300
3VX800	107160	0.33	80	5VX710	107178	0.82	71	5VX1900	107227	2.20	190	8V3150	107210	10.50	315
3VX850	107171	0.39	85	5VX730		0.84	73	5VX2000	107187	2.30	200	8V3350	107247	11.20	335
3VX900	107161	0.38	90	5VX740		0.85	74	5V2120	107228	2.50	212	8V3550	107211	11.90	355
3VX950	107172	0.40	95	5VX750	107193	0.87	75	5V2240	107188	2.60	224	8V3750	107218	12.60	375
3VX1000	107162	0.44	100	5VX780		0.90	78	5V2360	107236	2.74	236	8V4000	107212	13.40	400
3VX1060	107223	0.44	106	5VX800	107179	0.92	80	5V2500	107189	2.84	250	8V4250	107248	14.20	425
3VX1120	107163	0.46	112	5VX810		0.93	81	5V2650	107237	2.99	265	8V4500	107213	15.10	425
3VX1180	107231	0.50	118	5VX830		0.96	83	5V2800	107190	3.10	280	8V4750	107217	15.50	475
3VX1250	107164	0.54	125	5VX840		0.97	84	5V3000	107238	3.60	300	8V5000	107214	16.00	500
3VX1320	107232	0.57	132	5VX850	107194	0.98	85	5V3150	107191	3.80	315	----	----	----	----
3VX1400	107165	0.62	140	5VX860		0.99	86	5V3350	107239	4.00	335	----	----	----	----
3VX1500	107173	0.56	150	5VX880		1.02	88	5V3550	107192	4.30	355	----	----	----	----

Δ Outside circumference in inches.



SELECTION



DV Wedge Banded Belts



3VX POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

Lgth. Δ	Belt No.	Wgt. Per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N	6-BAND P/N
25	R3VX250-	0.10					
26.5	R3VX265-	0.10					
28	R3VX280-	0.10	108208	108209	108210	108211	
30	R3VX300-	0.15	108212	108213	108214	108215	
31.5	R3VX315-	0.15	108216	108217	108218	108219	
33.5	R3VX335-	0.15	108220	108221	108222	108228	
35.5	R3VX355-	0.15	108224	108225	108226	108227	
37.5	R3VX375-	0.15	108228	108229	108230	108231	
40	R3VX400-	0.20	108232	108233	108234	108235	
42.5	R3VX425-	0.20	108236	108237	108238	108239	
45	R3VX450-	0.20	108240	108241	108242	108243	
47.5	R3VX475-	0.20	108244	108245	108246	108247	
50	R3VX500-	0.20	108248	108249	108250	108251	
53	R3VX530-	2.50	108252	108253	108254	108255	
56	R3VX560-	2.50	108256	108257	108258	108259	
60	R3VX600-	2.50	108260	108261	108262	108263	
63	R3VX630-	0.30	108264	108265	108266	108267	
67	R3VX670-	0.30	108268	108269	108270	108271	
71	R3VX710-	0.30	108272	108273	108274	108275	
75	R3VX750-	0.35	108276	108277	108278	108279	
80	R3VX800-	0.35	108280	108281	108282	108283	
85	R3VX850-	0.40	108284	108285	108286	108287	
90	R3VX900-	0.40	108288	108289	108290	108291	
95	R3VX950-	0.45	108292	108293	108294	108295	
100	R3VX1000-	0.45	108296	108297	108298	108299	
106	R3VX1060-	0.50	108300	108301	108302	108303	
112	R3VX1120-	0.50	108304	108305	108306	108307	
118	R3VX1180-	0.55	108308	108309	108310	108311	
125	R3VX1250-	0.55	108312	108313	108314	108315	
132	R3VX1320-	0.60	108316	108317	108318	108319	
140	R3VX1400-	0.65	108320	108321	108322	108323	

Δ Outside circumference in inches.



5VX, 5V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

Lgth. Δ	Belt No.	Wgt. Per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N	6-BAND P/N
50	R5VX500-	0.65	108330				
53	R5VX530-	0.65					
56	R5VX560-	0.70	108338	108339	108340	108341	
60	R5VX600-	0.75	108342	108343	108344	108345	
63	R5VX630-	0.80	108346	108347	108348	108349	
67	R5VX670-	0.85	108350	108351	108352	108353	
71	R5VX710-	0.90	108354	108355	108356	108357	
75	R5VX750-	0.95	108358	108359	108360	108361	
80	R5VX800-	1.00	108362	108363	108364	108365	
85	R5VX850-	1.10	108366	108367	108368	108369	
90	R5VX900-	1.15	108370	108371	108372	108373	
95	R5VX950-	1.20	108374	108375	108376	108377	
100	R5VX1000-	1.30	108378	108379	108380	108381	
106	R5VX1060-	1.35	108382	108383	108384	108385	
112	R5VX1120-	1.45	108386	108387	108388	108389	
118	R5VX1180-	1.50	108390	108391	108392	108393	
125	R5VX1250-	1.60	108394	108395	108396	108397	
132	R5VX1320-	1.70	108398	108399	108400	108401	
140	R5VX1400-	1.80	108402	108403	108404	108405	108329
150	R5VX1500-	1.90	108406	108407	108408	108409	
160	R5VX1600-	2.05	108410	108411	108412	108413	
170	R5VX1700-	2.20	108414	108415	108416	108417	
180	R5VX1800-	2.30	108418	108419	108420	108421	
190	R5VX1900-	2.45	108422	108423	108424	108425	
200	R5VX2000-	2.55	108426	108427	108428	108429	
212	R5V2120-	2.75	108430	108431	108432	108433	
224	R5V2240-	2.90	108434	108435	108436	108437	
236	R5V2360-	3.00	108438	108439	108440	108441	
250	R5V2500-	3.20	108442	108443	108444	108445	
265	R5V2650-	3.40	108446	108447	108448	108449	
280	R5V2800-	3.60	108450	108451	108452	108453	
300	R5V3000-	3.85	108454	108455	108456	108457	
315	R5V3150-	4.05	108458	108459	108460	108461	
335	R5V3350-	4.35	108462	108463	108464	108465	
355	R5V3550-	4.70	108466	108467	108468	108469	

FOR 8V BELTS SEE NEXT PAGE

Δ Outside circumference in inches.



SELECTION



8V POLYBAND Narrow Belts (2, 3, 4, 5, and 6 Bands)

Lgth. Δ	Belt No.	Wgt. Per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N	6-BAND P/N
100	R8V1000-	3.3					
106	R8V1060-	3.50	108486				
112	R8V1120-	3.70	108489	108490	108491	108492	
118	R8V1180-	3.80	108493	108494	108495	108496	
125	R8V1250-	4.15	108498	108499	108500	108501	
132	R8V1320-	4.35	108502	108503	108504	108505	
140	R8V1400-	4.65	108507	108508	108509	108510	
150	R8V1500-	5.00	108511	108512	108513	108514	
160	R8V1600-	5.35	108515	108516	108517	108518	
170	R8V1700-	5.70	108519	108520	108521	108522	
180	R8V1800-	6.00	108524	108525	108526	108527	
190	R8V1900-	6.35	108528	108529	108530	108531	
200	R8V2000-	6.70	108533	108534	108535	108536	
212	R8V2120-	7.10	108537	108538	108539	108540	108326
224	R8V2240-	7.50	108542	108543	108544	108545	
236	R8V2360-	7.90	108546	108547	108548	108549	
250	R8V2500-	8.40	108550	108551	108552	108553	
265	R8V2650-	8.90	108554	108555	108556	108557	
280	R8V2800-	9.14	108559	108560	108561	108562	
300	R8V3000-	10.10	108563	108564	108565	108566	108558
315	R8V3150-	10.60	108567	108568	108569	108570	
335	R8V3350-	11.30	108571	108572	108573	108574	
355	R8V3550-	12.00	108576	108577	108578	108579	
375	R8V3750-	12.65	108580	108581	108582	108583	
400	R8V4000-	13.50	108585	108586	108587	108588	
425	R8V4250-	14.35	108589	108590	108591	108592	
450	R8V4500-	15.20	108594	108595	108596	108597	
475	R8V4750-	16.05	108470	108471	108472	108473	
500	R8V5000-	16.90	108474	108475	108476	108477	
560	R8V5600-	18.90	108478	108479	108484	108488	
600	R8V6000-	20.25					

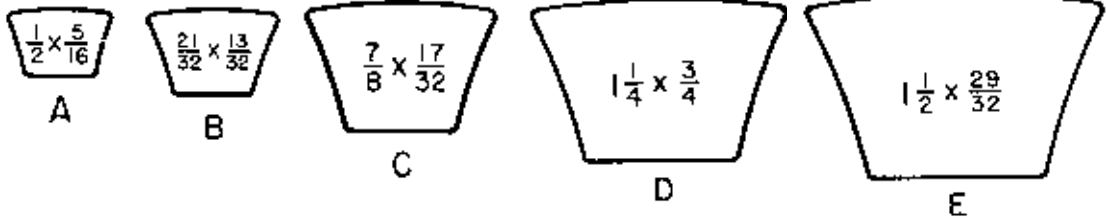
Δ Outside circumference in inches.



S-L Classic Belts



- Premium Performance at Standard Prices.
- Cool Running and Flexible.
- Strong Tensile Cords Remove Excess Stretch.
- Static Conducting and Heat and Oil Resistant.
- Matched to MPTA/RMA Standards - No additional matching or Match Codes required.



A S-L Classic Belts

Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ	
AP21	107908	0.14	22.3	AP44	107324	0.30	45.3	AP67	107388	0.44	68.3	AP89	107922	0.57	90.3	
AP22		0.15	23.3	AP45	107329	0.32	46.3	AP68	107016	0.80	69.3	AP90	107022	0.57	91.3	
AP23		0.16	24.3	AP46	107007	0.31	47.3	AP69	107913	0.44	70.3	AP91	107923	0.57	92.3	
AP24		107910	0.17	25.3	AP47	107330	0.34	48.3	AP70	107252	0.46	71.3	AP92	107277	0.58	93.3
AP25			0.18	26.3	AP48	107008	0.34	49.3	AP71	107017	0.46	72.3	AP93	107430	0.58	94.3
AP26	107001	0.20	27.9	AP49	107272	0.34	50.3	AP72	107914	0.48	73.3	AP94	107924	0.60	95.3	
AP27	107417	0.19	28.3	AP50	107331	0.35	51.3	AP73	107915	0.48	74.3	AP95	107925	0.62	96.3	
AP28	107320	0.21	29.3	AP51	107009	0.36	52.3	AP74	107343	0.48	75.3	AP96	107023	0.65	97.3	
AP29	107418	0.21	30.3	AP52	107332	0.38	53.3	AP75	107018	0.48	76.3	AP97	107926	0.65	98.3	
AP30	107321	0.23	31.3	AP53	107010	0.37	54.3	AP76	107420	0.47	77.3	AP98	107431	0.70	99.3	
AP31	107002	0.24	32.3	AP54	107250	0.38	55.3	AP77	107916	0.50	78.3	AP100	107346	0.67	101.3	
AP32	107322	0.24	33.3	AP55	107011	0.38	56.3	AP78	107019	0.51	79.3	AP103		0.68	104.3	
AP33	107003	0.25	34.3	AP56	107251	0.37	57.3	AP79	107917	0.52	80.3	AP105	107024	0.68	106.3	
AP34	107278	0.26	35.3	AP57	107273	0.40	58.3	AP80	107020	0.51	81.3	AP110	107253	0.70	111.3	
AP35	107004	0.26	36.3	AP58	107274	0.40	59.3	AP81	107276	0.52	82.3	AP112	107025	0.74	113.3	
AP36	107270	0.27	37.3	AP59	107912	0.40	60.3	AP82	107918	0.55	83.3	AP120	107026	0.75	121.3	
AP37	107129	0.27	38.3	AP60	107012	0.41	61.3	AP83	107344	0.50	84.3	AP128	107027	0.85	129.3	
AP38	107005	0.26	39.3	AP61	107333	0.41	62.3	AP84	107919	0.53	85.3	AP136	107028	0.84	137.3	
AP39	107323	0.29	40.3	AP62	107013	0.66	63.3	AP85	107021	0.55	86.3	AP144	107029	1.00	145.3	
AP40	107271	0.29	41.3	AP63	107387	0.40	64.3	AP86	107920	0.56	87.3	AP158	107254	1.10	159.3	
AP41	107419	0.29	42.3	AP64	107014	0.41	65.3	AP87	107921	0.58	88.3	AP173	107255	1.20	174.3	
AP42	107006	0.27	43.3	AP65	107122	0.42	66.3	AP88	107345	0.60	89.3	AP180	107256	1.20	181.3	
AP43	107249	0.31	44.3	AP66	107015	0.43	67.3									

Δ Datum Length in inches



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

S-L Classic Belts

B, C, D, E S-L Classic Belts

Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ	Belt No.	Part No.	Wt.	Datum Lgth. Δ
B-Belts				B-Belts (Con't)				B-Belts (Con't)				C-Belts (Con't)			
BP25		0.28	26.8	BP78	107046	0.74	79.8	BP205	107353	2.00	206.8	CP330	107096	6.00	330.9
BP26		0.29	27.8	BP79	107257	0.80	80.8	BP210	107065	2.07	211.8	CP345	107097	6.30	345.9
BP28	107932	0.30	29.8	BP80	107047	0.85	81.8	BP225	107262	2.21	225.3	CP360	107098	7.40	360.9
BP29	107933	0.29	30.8	BP81	107048	0.82	82.8	BP240	107066	2.39	240.3	CP390	107099	7.10	390.9
BP30		0.30	31.8	BP82	107258	0.84	83.8	BP255	107263	2.56	255.3	CP420	107269	8.03	420.9
BP31		0.32	32.8	BP83	107049	0.79	84.8	BP270	107067	2.75	270.3	D-BELTS			
BP32	107389	0.36	33.8	BP84	107411	0.81	85.8	BP285	107264	2.70	285.3	DP120	107100	4.30	123.3
BP33		0.34	34.8	BP85	107050	0.87	86.8	BP300	107068	3.40	300.3	DP158	107103	5.58	161.3
BP34	107390	0.34	35.8	BP86	107434	0.84	87.8	BP315	107265	3.20	315.3	DP144	107102	5.10	147.3
BP35	107030	0.39	36.8	BP87	107296	0.87	88.8	C-BELTS				DP158	107103	5.58	161.3
BP36	107391	0.39	37.8	BP88	107297	0.87	89.8	CP51	107072	0.99	53.9	DP162	107104	5.65	165.3
BP37	107936	0.41	38.8	BP89	107938	0.90	90.8	CP55	107354	1.07	57.9	DP173	107105	11.00	176.3
BP38	107031	0.44	39.8	BP90	107051	0.94	91.8	CP60	107073	1.15	62.9	DP180	107106	6.35	183.3
BP39	107937	0.43	40.8	BP91	107939	0.87	92.8	CP68	107074	1.30	70.9	DP195	107107	6.90	198.3
BP40	107279	0.44	41.8	BP92	107940	0.90	93.8	CP71		1.34	73.9	DP210	107108	7.40	213.3
BP41	107280	0.45	42.8	BP93	107052	0.91	94.8	CP72	107699	1.36	74.9	DP225	107146	7.90	225.8
BP42	107032	0.44	43.8	BP94	107941	0.93	95.8	CP75	107075	1.42	77.9	DP240	107109	8.49	240.8
BP43	107349	0.46	44.8	BP95	107259	0.95	96.8	CP78	107124	1.49	80.9	DP255	107148	8.90	255.8
BP44	107281	0.50	45.8	BP96	107260	0.96	97.8	CP81	107076	1.50	83.9	DP270	107110	8.90	270.8
BP45	107433	0.48	46.8	BP97	107053	0.95	98.8	CP85	107077	1.65	87.9	DP285	107149	9.90	285.8
BP46	107033	0.49	47.8	BP98		0.96	99.8	CP90	107078	1.64	92.9	DP300	107111	10.30	300.8
BP47	107408	0.52	48.8	BP99	107128	0.99	100.8	CP96	107079	1.82	98.9	DP315	107112	11.00	315.8
BP48	107034	0.51	49.8	BP100	107069	1.02	101.8	CP97	107356	1.83	99.9	DP330	107113	11.50	330.8
BP49	107350	0.53	50.8	BP101		1.06	102.8	CP99	107361	1.86	101.9	DP345	107114	12.00	345.8
BP50	107282	0.54	51.8	BP103	107054	1.07	104.8	CP100	107126	1.88	102.9	DP360	107115	12.76	360.8
BP51	107035	0.51	52.8	BP105	107055	1.07	106.8	CP101		1.89	103.9	DP390	107116	13.60	390.8
BP52	107283	0.55	53.8	BP106		1.08	107.8	CP105	107080	1.90	107.9	DP420	107117	14.70	420.8
BP53	107036	0.57	54.8	BP108	107298	1.08	109.8	CP108	107363	1.90	110.9	DP450	107373	15.70	450.8
BP54	107284	0.59	55.8	BP111		1.15	112.8	CP109	107123	2.02	111.9	DP480	107118	16.80	480.8
BP55	107037	0.59	56.8	BP112	107056	1.14	113.8	CP111	107365	2.10	113.9	DP540	107119	18.90	540.8
BP56	107285	0.59	57.8	BP116	107412	1.18	117.8	CP112	107081	2.13	114.9	DP600	107120	20.90	600.8
BP57	107286	0.59	58.8	BP118		1.18	119.8	CP115	107364	2.26	117.9	DP660	107070	23.00	660.8
BP58	107287	0.61	59.8	BP120	107057	1.18	121.8	CP120	107082	2.22	122.9	E-BELTS ◊			
BP59	107288	0.59	60.8	BP123		1.25	124.8	CP124	107127	2.42	126.9	EP144		8.00	148.5
BP60	107038	0.60	61.8	BP124	107299	1.26	125.8	CP128	107083	2.35	130.9	EP180	107131	9.40	184.5
BP61	107289	0.61	62.8	BP126		1.25	127.8	CP136	107084	2.56	138.9	EP195	107132	10.10	199.5
BP62	107039	0.62	63.8	BP128	107058	1.28	129.8	CP144	107085	2.64	146.9	EP210	107133	10.90	214.5
BP63	107290	0.63	64.8	BP130		1.35	131.8	CP148		2.80	150.9	EP225		12.10	229.5
BP64	107040	0.64	65.8	BP133	107261	1.38	134.8	CP150	107957	2.82	152.9	EP240	107135	12.20	241.5
BP65	107041	0.65	66.8	BP136	107059	1.34	137.8	CP158	107086	3.01	160.9	EP270		14.50	271.5
BP66	107042	0.66	67.8	BP140		1.43	141.8	CP162	107087	3.09	164.9	EP300	107137	15.30	301.0
BP67	107291	0.69	68.8	BP144	107060	1.45	145.8	CP173	107088	3.39	175.9	EP330	107138	16.80	331.0
BP68	107043	0.67	69.8	BP148	107351	1.39	149.8	CP180	107089	3.47	182.9	EP360	107139	18.30	361.0
BP69	107409	0.70	70.8	BP150	107000	1.49	151.8	CP195	107090	3.65	197.9	EP390	107140	19.80	391.0
BP70	107275	0.72	71.8	BP154		1.54	155.8	CP210	107091	8.03	212.9	EP420	107141	21.40	421.0
BP71	107044	0.69	72.8	BP158	107061	1.55	159.8	CP225	107266	4.16	225.9	EP480	107142	27.00	481.0
BP72	107292	0.73	73.8	BP162	107125	1.58	163.8	CP240	107092	4.31	240.9	EP540	107143	30.00	541.0
BP73	107293	0.73	74.8	BP173	107062	1.69	174.8	CP255	107267	4.70	255.9	EP600	107144	34.00	601.0
BP74	107294	0.73	75.8	BP180	107063	1.72	181.8	CP270	107093	5.03	270.9	EP660	107174	36.00	661.0
BP75	107045	0.78	76.8	BP190	107352	1.85	191.8	CP285	107268	5.20	285.9				
BP76	107410	0.76	77.8	BP191		1.95	192.8	CP300	107094	5.50	300.9				
BP77	107295	0.76	78.8	BP195	107064	2.00	196.8	CP315	107095	5.80	315.9				

Δ Datum Length in inches

◊ E-BELTS: Recommended for Replacement Only—Not for New Drives (Use 8V Belts).

SHEAVES PAGES PT7-3	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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S-L Classic Banded Belts

B POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

Datum Lgth. Δ	Belt No.	Wgt. per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N
36.8	RBP35-	0.50				
39.8	RBP38-	0.55				
41.8	RBP40-	0.55				
42.8	RBP41-	0.55				
43.8	RBP42-	0.60	107308	107309	107310	107311
44.8	RBP43-	0.60	107421	107451	107452	107453
45.8	RBP44-	0.60				
47.8	RBP46-	0.65	107312	107313	107314	107315
49.8	RBP48-	0.65	107316	107317	107318	107319
50.8	RBP49-	0.70				
51.8	RBP50-	0.70	107454	107455	107464	107465
52.8	RBP51-	0.70	107325	107326	107327	107328
53.8	RBP52-	0.70	107466	107467	107468	107481
54.8	RBP53-	0.75	107334	107335	107336	107337
55.8	RBP54-	0.75	107482	107483	107484	107485
56.8	RBP55-	0.75	107338	107339	107340	107341
57.8	RBP56-	0.75	107494	107495	107496	107497
58.8	RBP57-	0.80	107498	107503	107504	107505
59.8	RBP58-	0.80	107506	107507	107520	107521
60.8	RBP59-	0.80	107522	107523	107524	107541
61.8	RBP60-	0.85	107357	107358	107359	107360
62.8	RBP61-	0.85	107542	107543	107544	107545
63.8	RBP62-	0.85	107366	107367	107368	107369
64.8	RBP63-	0.85	107550	107551	107552	107553
65.8	RBP64-	0.90	107375	107376	107377	107378
66.8	RBP65-	0.90	107379	107380	107381	107382
67.8	RBP66-	0.90	107383	107384	107385	107386
68.8	RBP67-	0.90	107554	107563	107564	107565
69.8	RBP68-	0.90	107392	107393	107394	107395
71.8	RBP70-	0.95	107396	107397	107398	107399
72.8	RBP71-	0.95	107400	107401	107402	107403
73.8	RBP72-	1.00	107566	107567	107568	107569
74.8	RBP73-	1.00	107660	107651	107652	107653
75.8	RBP74-	1.00	107654	107659	107660	107661
75.8	RBP75-	1.00	107404	107405	107406	107407
78.8	RBP77-	1.05	107662	107663	107668	107669
79.8	RBP78-	1.05	107413	107414	107415	107416
80.8	RBP79-	1.10	107670	107671	107672	107677
81.8	RBP80-	1.10	107422	107423	107424	107425
82.8	RBP81-	1.10	107426	107427	107428	107429
83.8	RBP82-	1.10	107678	107894	107895	107896
84.8	RBP83-	1.15	107435	107436	107437	107438
86.8	RBP85-	1.15	107439	107440	107441	107442
88.8	RBP87-	1.20	107897	107898	107899	107942
89.8	RBP88-	1.20	107943	107944	107948	107949
91.8	RBP90-	1.20	107443	107444	107445	107446
94.8	RBP93-	1.25	107447	107448	107449	107450
96.8	RBP95-	1.30	107950	107951	107952	107953
97.8	RBP96-	1.30	107456	107457	107458	107459
98.8	RBP97-	1.30	107460	107461	107462	107463

Δ Datum Length in inches

(Continued Next Page)



SELECTION



S-L Classic Banded Belts

B POLYBAND Classic Belts (2, 3, 4 and 5 Bands) (Cont'd)

Datum Lgth. Δ	Belt. No.	Wgt. per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N
100.8	RBP99-	1.35	107954	107955	107956	107979
101.8	RBP100-	1.35	107469	107470	107471	107472
104.8	RBP103-	1.40	107473	107474	107475	107476
106.8	RBP105-	1.45	107477	107478	107479	107480
109.8	RBP108-	1.45	107980	107981	107982	107983
113.8	RBP112-	1.50	107486	107487	107488	107489
121.8	RBP120-	1.65	107490	107491	107492	107493
125.8	RBP124-	1.70	107984	107985	107986	107987
129.8	RBP128-	1.75	107499	107500	107501	107502
134.8	RBP133-	1.80	107988	107989	107990	107991
137.8	RBP136-	1.85	107508	107509	107510	107511
145.8	RBP144-	1.95	107512	107513	107514	107515
149.8	RBP148-	2.00	107992	107993	107994	107995
159.8	RBP158-	2.15	107516	107517	107518	107519
163.8	RBP162-	2.20	107996	107997	107998	108765
174.8	RBP173-	2.35	107525	107526	107527	107528
181.8	RBP180-	2.45	107529	107530	107531	107532
196.8	RBP195-	2.65	107533	107534	107535	107536
211.8	RBP210-	2.85	107537	107538	107539	107540
225.3	RBP225-	3.00	108766	108767	108768	108769
240.3	RBP240-	3.20	107546	107547	107548	107549
255.3	RBP255-	3.40	108770	108771	108772	108773
270.3	RBP270-	3.60	107555	107556	107557	107558
285.3	RBP285-	3.80				
300.3	RBP300-	4.00	107559	107560	107561	107562
315.3	RBP315-	4.20	108774	108775	108776	108777

C POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

Datum Lgth. Δ	Belt. No.	Wgt. per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N
53.9	RCP51-	1.20				
57.9	RCP55-	1.30				
62.9	RCP60-	1.40	107574	107575	107576	107577
70.9	RCP68-	1.55	107578	107579	107580	107581
73.9	RCP71-	1.65				
77.9	RCP75-	1.70	107582	107583	107584	107585
83.9	RCP81-	1.85	107586	107587	107588	107589
87.9	RCP85-	1.95	107590	107591	107592	107593
92.9	RCP90-	2.05	107594	107595	107596	107597
98.9	RCP96-	2.20	107598	107599	107600	107601
99.9	RCP97-	2.20				
101.9	RCP99-	2.25	108778	108779	108780	108781
102.9	RCP100-	2.30				
107.9	RCP105-	2.40	107602	107603	107604	107605
110.9	RCP108-	2.45	108782	108783	108784	108785
111.9	RCP109-	2.50	108786	108787	108788	108789
114.9	RCP112-	2.55	107606	107607	107608	107609
122.9	RCP120-	2.70	107610	107611	107612	107613
126.9	RCP124-	2.80	108790	108791	108792	108793
130.9	RCP128-	2.80	107614	107615	107616	107617

Δ Datum Length in inches



S-L Classic Banded Belts

C POLYBAND Classic Belts (2, 3, 4 and 5 Bands) (Cont'd)

Datum Lgth. Δ	Belt. No.	Wgt. per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N
138.9	RCP136-	3.05	107618	107619	107620	107621
146.9	RCP144-	3.25	107622	107623	107624	107625
160.9	RCP158-	3.55	107626	107627	107628	107629
164.9	RCP162-	3.65	107630	107631	107632	107633
175.9	RCP173-	3.90	107634	107635	107636	107637
182.9	RCP180-	4.05	107638	107639	107640	107641
197.9	RCP195-	4.40	107642	107643	107644	107645
212.9	RCP210-	4.70	107646	107647	107648	107649
225.9	RCP225-	5.00	107679	107680	107681	107682
240.9	RCP240-	5.35	107655	107656	107657	107658
255.9	RCP255-	5.65	107684	107685	107686	107687
270.9	RCP270-	6.00	107664	107665	107666	107667
285.9	RCP285-	6.35	107689	107690	107691	107692
300.9	RCP300-	6.65	107673	107674	107675	107676
315.9	RCP315-	7.00	108794	108795	108796	108797
330.9	RCP330-	7.35	108798	108799	108876	108877
345.9	RCP345-	7.65	108878	108879	108880	108881
360.9	RCP360-	8.00	108882	108883	108884	108885
390.9	RCP390-	8.65	108886	108887	108888	108889
420.9	RCP420-	9.35	108890	108891	108892	108893

D POLYBAND Classic Belts (2, 3, 4 and 5 Bands)

Datum Lgth. Δ	Belt. No.	Wgt. per Band	2-BAND P/N	3-BAND P/N	4-BAND P/N	5-BAND P/N
123.3	RDP120-	5.05	107700	107701	107702	107703
131.3	RDP128-	5.40				
147.3	RDP144-	6.05	107708	107709	107710	107711
161.3	RDP158-	6.65	107712	107713	107714	107715
165.3	RDP162-	6.80	107716	107717	107718	107719
176.3	RDP173-	7.25	107720	107721	107722	107723
183.3	RDP180-	7.50	107724	107725	107726	107727
198.3	RDP195-	8.15	107728	107729	107730	107731
213.3	RDP210-	8.75	107732	107733	107734	107735
225.8	RDP225-	9.30	107736	107737	107738	107739
240.8	RDP240-	9.90	107741	107742	107743	107744
255.8	RDP255-	10.50	107745	107746	107747	107748
270.8	RDP270-	11.15	107750	107751	107752	107753
285.8	RDP285-	11.75	107754	107755	107756	107757
300.8	RDP300-	12.35	107759	107760	107761	107762
315.8	RDP315-	13.00	107777	107778	107779	107780
330.8	RDP330-	13.60	107781	107782	107783	107784
345.8	RDP345-	14.20	107695	107696	107697	107698
360.8	RDP360-	14.85	107960	107961	107962	107963
390.8	RDP390-	16.10	107764	107765	107766	107767
420.8	RDP420-	17.30	107769	107770	107771	107772
450.8	RDP450-	18.55	107964	107965	107966	107967
480.8	RDP480-	19.80	107773	107774	107775	107776
540.8	RDP540-	22.25		107968	107969	107970
600.8	RDP600-	24.70	107971	107972	107973	107974
660.8	RDP660-	27.15	107975	107976	107977	107978

Δ Datum Length in inches

SHEAVES PAGES PT7-3	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



Classic Cog Belts



Deliver more horsepower and last longer than conventional belts

- Fully notched cogs for maximum flexibility.
- High coefficient, energy-efficient rubber edge.
- Proven energy-saving design.
- Outlast conventional belts.
- Fewer belts required - drive weight is reduced.
- Matched to MPTA/RMA Standards - No Additional matching or Match Codes Required

AX, BX, CX Classic Cog Belts

Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.
AX BELTS				AX BELTS (CON'T)				BX BELTS (CON'T)				BX BELTS (CON'T)			
AX25	108667	.17	26.3	AX105	108670	.68	106.3	BX78	108702	.86	79.8	BX270	108735	2.65	270.3
AX26	108640	.18	27.3	AX110	108671	.71	111.3	BX79	108703	.87	80.8	BX300	108637	3.0	300.3
AX27	108668	.19	28.3	AX112	108672	.73	113.3	BX80	108704	.88	81.8	CX-BELTS			
AX31	108641	.21	32.3	AX120	108673	.74	121.3	BX81	108705	.89	82.8	CX51	108736	1.07	53.9
AX32	108869	.21	33.3	AX128	108674	.78	129.3	BX82	108706	.90	83.8	CX60	108737	1.24	62.9
AX33	108642	.22	34.3	AX136	108675	.98	137.3	BX83	108707	.91	84.8	CX68	108738	1.39	70.9
AX34	108643	.23	35.3	BX-BELTS				BX85	108708	.93	86.8	CX75	108739	1.53	77.9
AX35	108644	.24	36.3	BX35	108676	.40	36.8	BX90	108709	.98	91.8	CX81	108740	1.64	83.9
AX36	108645	.24	37.3	BX38	108677	.43	39.8	BX93	108710	1.01	94.8	CX85	108741	1.72	87.9
AX37	108646	.25	38.3	BX42	108678	.48	43.8	BX95	108711	1.03	96.8	CX90	108742	1.81	92.9
AX38	108647	.26	39.3	BX46	108679	.52	47.8	BX96	108712	1.05	97.8	CX96	108743	1.93	98.9
AX42	108648	.28	43.3	BX48	108680	.54	49.8	BX97	108713	1.06	98.8	CX105	108744	2.10	107.9
AX43	108649	.29	44.3	BX50	108681	.56	51.8	BX99	108714	1.08	100.8	CX109	108745	2.18	111.9
AX46	108650	.31	47.3	BX51	108682	.57	52.8	BX100	108715	1.09	101.8	CX112	108746	2.24	114.9
AX48	108651	.32	49.3	BX52	108683	.58	53.8	BX103	108716	1.12	104.8	CX115	108747	2.29	117.9
AX51	108652	.34	52.3	BX53	108684	.59	54.8	BX105	108717	1.14	106.8	CX120	108748	2.39	122.9
AX53	108653	.35	54.3	BX54	108685	.60	55.8	BX112	108718	1.21	113.8	CX128	108749	2.42	130.9
AX54	108654	.36	55.3	BX55	108686	.61	56.8	BX113	108719	1.22	114.8	CX136	108750	2.49	138.9
AX55	108655	.36	56.3	BX56	108687	.62	57.8	BX116	108720	1.26	117.8	CX144	108751	2.63	146.9
AX56	108656	.37	57.3	BX59	108688	.66	60.8	BX120	108721	1.30	121.8	CX150	108752	2.74	152.9
AX60	108657	.40	61.3	BX60	108689	.67	61.8	BX124	108722	1.26	125.8	CX158	108753	2.88	160.9
AX62	108658	.41	63.3	BX61	108690	.68	62.8	BX128	108723	1.30	129.8	CX162	108754	2.95	164.9
AX64	108659	.42	65.3	BX62	108691	.69	63.8	BX133	108724	1.34	134.8	CX173	108755	3.15	175.9
AX66	108660	.43	67.3	BX63	108692	.70	64.8	BX136	108725	1.37	137.8	CX180	108756	3.27	182.9
AX68	108661	.45	69.3	BX64	108693	.71	65.8	BX144	108726	1.45	145.8	CX195	108757	3.54	197.9
AX70	108662	.46	71.3	BX65	108694	.72	66.8	BX150	108727	1.51	151.8	CX210	108758	3.77	212.9
AX71	108663	.47	72.3	BX66	108695	.73	67.8	BX158	108728	1.59	159.8	CX225	108896	4.0	227.9
AX75	108664	.49	76.3	BX67	108696	.74	68.8	BX162	108729	1.63	163.8	CX240	108759	4.30	240.9
AX78	108665	.51	79.3	BX68	108697	.75	69.8	BX173	108730	1.74	174.8	CX270	108760	4.83	270.9
AX80	108666	.52	81.3	BX70	108698	.77	71.8	BX180	108731	1.81	181.8	CX285	108638	4.7	285.9
AX85	108667	.55	86.3	BX71	108699	.78	72.8	BX195	108732	1.96	196.8	CX300	108639	4.9	300.9
AX90	108668	.59	91.3	BX75	108700	.82	76.8	BX210	108733	2.09	211.8	CX330	108762	5.3	330.9
AX96	108669	.62	97.3	BX77	108701	.85	78.8	BX240	108734	2.36	240.3	CX360	108764	5.8	360.9



Double-V (Hex) Belts



- For Serpentine Drives
- Static Conducting
- Oil Resistant

AA, BB, CC, DD Double-V (Hex) Belts

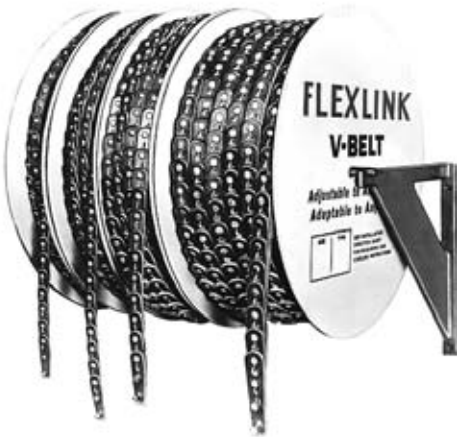
Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.	Belt No.	Part No.	Wt.	Datum Lgth.
AA BELTS				BB BELTS (CON'T.)				BB BELTS (CON'T.)				CC BELTS			
AA51	109125	0.50	53.1	BB73	109209	3.30	75.9	BB140	109223	2.00	142.9	CC75	109235	1.72	79.2
AA55	109087	0.60	57.1	BB74	109210	1.20	76.9	BB144	109091	2.00	146.9	CC81	109153	1.80	85.2
AA60	109126	0.50	62.1	BB75	109138	1.00	77.9	BB155	109202	2.00	157.9	CC85	109154	1.90	89.5
AA62		0.50	64.1	BB76		1.00	78.9	BB157		2.10	159.9	CC90	109155	2.00	94.2
AA64	109120	0.70	66.1	BB77		1.10	79.9	BB158	109092	2.10	160.9	CC96	109156	2.20	100.2
AA66	109121	0.70	68.1	BB81	109139	1.10	83.9	BB160		2.20	162.9	CC105	109157	2.40	109.2
AA68	109127	0.50	70.1	BB83	109211	1.10	85.9	BB162		2.20	164.9	CC112	109158	2.50	116.2
AA70	109122	0.70	72.1	BB85	109140	1.20	87.9	BB168		2.30	170.9	CC119		2.60	123.2
AA75	109128	0.60	77.1	BB89		1.20	91.9	BB169		2.30	171.9	CC120	109159	2.70	124.2
AA78	109123	0.90	80.1	BB90	109141	1.20	92.9	BB170		2.30	172.9	CC128	109160	2.90	132.2
AA80	109129	0.60	82.1	BB92	109197	1.20	94.9	BB173	109093	2.30	175.9	CC136	109236	3.26	140.2
AA85	109130	0.71	87.1	BB93	109198	1.20	95.9	BB180	109094	2.40	182.9	CC144	109161	3.20	148.2
AA90	109131	0.80	92.1	BB94	109199	1.20	96.9	BB182		2.40	184.9	CC148	109237	3.54	152.2
AA92		0.80	94.1	BB96		1.30	98.9	BB190		2.60	192.9	CC158	109162	3.50	162.2
AA96	109132	0.80	98.1	BB97	109142	1.30	99.9	BB195	109148	2.60	197.9	CC162	109163	3.80	166.2
AA105	109133	0.90	107.1	BB103	109213	1.66	105.9	BB210	109149	2.60	212.9	CC173	109164	3.80	177.2
AA112	109134	0.80	114.1	BB105	109143	1.40	107.9	BB225		3.00	226.4	CC180	109165	4.00	184.2
AA120	109135	0.90	122.1	BB107	109214	1.71	109.9	BB226	109203	3.00	227.4	CC195	109166	4.30	199.2
AA128	109136	0.90	130.1	BB108	109215	1.74	110.9	BB228	109204	3.00	229.4	CC210	109167	4.70	214.2
BB-BELTS				BB111	109200	1.40	113.9	BB230	109205	3.10	231.4	CC225		5.20	229.2
BB42	109192	0.60	44.9	BB112	109144	1.60	114.9	BB240	109150	3.20	241.4	CC240	109168	5.20	242.2
BB43	109193	0.60	45.9	BB116	109216	1.60	118.9	BB250		3.20	251.4	CC255		5.90	259.2
BB45	109206	0.60	47.9	BB117		1.60	119.9	BB267		3.20	268.4	CC270	109169	5.90	272.2
BB51	109088	0.80	53.9	BB118	109218	1.90	120.9	BB270	109151	3.60	271.4	CC300	109170	6.50	302.2
BB53		0.80	55.9	BB120	109145	1.60	122.9	BB273		3.60	274.4	CC330	109171	7.20	332.2
BB54		0.80	56.9	BB122		1.70	124.9	BB277		3.60	278.4	CC360	109172	7.80	362.2
BB55	109089	0.80	57.9	BB123	109219	1.70	125.9	BB278		3.70	279.4	CC390	109189	8.50	392.2
BB60	109090	0.90	62.9	BB124	109220	1.70	126.9	BB285		3.90	286.4	CC420	109188	9.10	422.2
BB64		0.90	66.9	BB128	109146	1.80	130.9	BB300		4.00	301.4				
BB68	109137	0.90	70.9	BB129	109221	1.80	131.9	BB360		4.50	361.4				
BB71	109196	1.00	73.9	BB130	109222	1.80	132.9								
BB72	109208	1.17	74.9	BB136	109201	1.80	138.9								



SELECTION



FLEXLINK Belting



- Fast installation, installs in a snap
- Adjustable to any length, adaptable to any drive
- Reduces vibration
- Long-lasting construction
- Reduces inventory - one reel can replace many sizes of standard belting
- Oil proof construction
- Order by the foot or by the reel.

Belt Selection	Belt Width	Min. Recommended Sheave Pitch Dia.	Part No. Per Foot*	Wt. Per Ft.
0/3L	3/8	2"	109076	.14
A/4L	1/2	2"	109084	.15
B/5L	21/32	4"	109085	.19
C	7/8	6"	109086	.35

* 100 Ft reel available

FLEXLINK BELT APPLICATION GUIDELINES

1. To obtain link belt length, multiply desired pitch length by .916. This provides correct belt length for initial run-in and seating of belt.
 2. For matched sets of link belts, use the same number of links on each belt.
 3. Do not use link belting above 5000 FPM belt speed.
Belt speed = .262 x RPM x pitch diameter of sheave.
 4. **Note:** Link belting is not static conducting.
- Important -**
For matched sets of link belts use same number of links on each belt.



FLEXLINK TOOL

This tool provides a fast, safe way to couple or uncouple Flexlink belting. Its all steel construction is plated to resist rust. Uses a heavy duty spring and tempered steel points. Tool is not required to assemble belting but is recommended for the convenience it offers.

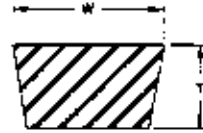
Part No. 109083, Wt. 2 Lbs.



FHP Belts



- Oil Resistant
- Static Conducting
- For Fractional HP Single Drive Belts
- Belt Number Indicates Pitch Length (eg. 4L270=27")



Belt Sect.	W	T
3L	3/8	7/32
4L	1/2	5/16
5L	21/32	3/8

3L, 4L, 5L FHP Belts

Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
3L BELTS			3L BELTS (CON'T)			4L BELTS (CON'T.)			5L BELTS (CON'T.)		
3L150	108150	.05	3L620	108604	.19	4L590	108043	.32	5L400	108096	.38
3L160	108151	.05	3L630	108805	.19	4L600	108044	.33	5L410	108097	.38
3L170	108152	.05	4L BELTS			4L610	108045	.33	5L420	108098	.40
3L180	108153	.06	4L170	108614	.09	4L620	108046	.34	5L430	108099	.41
3L190	108154	.06	4L180	108001	.09	4L630	108047	.35	5L440	108100	.42
3L200	108155	.06	4L188	108836	.09	4L640	108048	.35	5L450	108101	.43
3L210	108156	.06	4L190	108002	.10	4L650	108049	.36	5L460	108102	.44
3L220	108157	.07	4L200	108003	.10	4L660	108050	.36	5L470	108103	.45
3L230	108158	.07	4L210	108004	.11	4L670	108051	.37	5L480	108104	.46
3L240	108159	.07	4L220	108005	.11	4L680	108052	.37	5L490	108105	.47
3L250	108160	.08	4L230	108006	.12	4L690	108053	.38	5L500	108106	.48
3L260	108161	.08	4L240	108007	.12	4L700	108054	.38	5L510	108107	.49
3L270	108162	.08	4L250	108008	.13	4L710	108055	.39	5L520	108108	.50
3L280	108163	.09	4L260	108009	.13	4L720	108056	.40	5L530	108109	.51
3L290	108164	.09	4L270	108010	.14	4L730	108057	.40	5L540	108110	.52
3L300	108165	.09	4L275	108841	.14	4L740	108058	.41	5L550	108111	.53
3L310	108166	.10	4L280	108011	.15	4L750	108059	.41	5L560	108112	.54
3L320	108167	.10	4L290	108012	.16	4L760	108060	.42	5L570	108113	.55
3L330	108168	.10	4L300	108013	.16	4L770	108061	.42	5L575	108873	.55
3L340	108169	.10	4L310	108014	.17	4L780	108062	.43	5L580	108114	.56
3L350	108170	.11	4L320	108015	.18	4L790	108063	.43	5L590	108115	.57
3L360	108171	.11	4L330	108016	.18	4L800	108064	.44	5L600	108116	.58
3L370	108172	.11	4L340	108018	.19	4L810	108615	.44	5L610	108117	.59
3L380	108173	.12	4L350	108019	.19	4L820	108065	.45	5L620	108118	.60
3L390	108174	.12	4L360	108020	.20	4L830	108616	.46	5L630	108119	.61
3L400	108175	.12	4L370	108021	.20	4L840	108066	.46	5L640	108120	.61
3L410	108176	.13	4L380	108022	.21	4L850	108617	.47	5L650	108121	.62
3L420	108177	.13	4L390	108023	.21	5L BELTS			5L660	108122	.63
3L430	108178	.13	4L400	108024	.22	5L230	108625	.21	5L670	108123	.64
3L440	108179	.14	4L410	108025	.23	5L240	108080	.20	5L680	108124	.65
3L450	108180	.14	4L420	108026	.23	5L250	108081	.20	5L690	108125	.66
3L460	108181	.14	4L430	108027	.24	5L260	108082	.20	5L700	108126	.67
3L470	108182	.15	4L440	108028	.24	5L265	108070	.21	5L710	108127	.68
3L480	108183	.15	4L450	108029	.25	5L270	108083	.21	5L720	108128	.69
3L490	108184	.15	4L460	108030	.25	5L280	108084	.22	5L730	108129	.70
3L500	108185	.15	4L470	108031	.26	5L290	108085	.23	5L740	108130	.71
3L510	108186	.16	4L480	108032	.26	5L300	108086	.24	5L750	108131	.72
3L520	108187	.16	4L490	108033	.27	5L310	108087	.24	5L760	108132	.73
3L530	108188	.16	4L500	108034	.27	5L320	108088	.25	5L770	108133	.74
3L540	108189	.17	4L510	108035	.28	5L330	108089	.26	5L780	108134	.75
3L550	108190	.17	4L520	108036	.29	5L340	108090	.27	5L790	108826	.76
3L560	108191	.17	4L530	108037	.29	5L350	108091	.28	5L800	108135	.77
3L570	108192	.18	4L540	108038	.30	5L360	108092	.28	5L810	108827	.78
3L580	108193	.18	4L550	108039	.30	5L365	108872	.29	5L820	108136	.79
3L590	108194	.18	4L560	108040	.31	5L370	108093	.29	5L830	108328	.80
3L600	108195	.19	4L570	108041	.31	5L380	108094	.37	5L840	108137	.81
3L610	108196	.19	4L580	108042	.32	5L390	108095	.37	5L850	108629	.82

SHEAVES PAGES PT7-3	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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Stock D-V Wedge Drives: Standard Motor Speeds

Step 1 - Determine Service Factor. Refer to Typical Service Factors, Table 2. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated.) Correct factor is determined by: 1. The extent and frequency of peak loads. 2. Number of operating hours/year (broken down in average hours/day of continuous service). 3. Proper service category (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

Step 2 - Compute Design HP. Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

Step 3 - Choose Belt Section. Using Table 1, below, read up from design hp figure obtained in Step 2 and over from the rpm of faster shaft. This intersection indicates belt section.

Step 4 - Select the Drive. a) Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-46. b) Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 3.) c) Read onto opposite page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row below the C.D. figure. d) Read to the top of the table for the belt size. e) **To determine number of belts,** multiply the HP per Belt value by the ArcLength Correction Factor. This is the corrected HP/belt. Divide design HP by corrected HP figure to determine number of belts required.

EXAMPLE OF SELECTION

Select a D-V Wedge drive for a positive blower, with a 2-15/16" shaft, to run @ 290 rpm, driven by a 30 hp, 1160 squirrel cage electric motor with a 2-1/8" shaft. Desired center distance is 26". Service is continuous.

Step 1 - Service factor from Table 2 is 1.4.

Step 2 - Design HP = 1.4x30 = 42 HP.

Step 3 - A 5V belt section is shown in Table 1 when reading to the right of 1160 rpm and up from 42 design HP.

Step 4 - Turn to 5V Stock Drive Selection Tables. On page PT7-68, under 1160 RPM Driver, read down to find 290 rpm. The nearest appears as 291.

Note HP/belt as 10.00 for all D-V and Polyband belts over 200" and 12.00 for Polyband belts under 200". Also note sheaves listed as 7.1 Driver, 28.0 Driven. Table 3 shows driver is not undersize. Reading toward the right the C.D. figure nearest 26, is 26.4. The correction factor below the C.D. figure is .92. Top of table shows belt size as 5VX 1120.

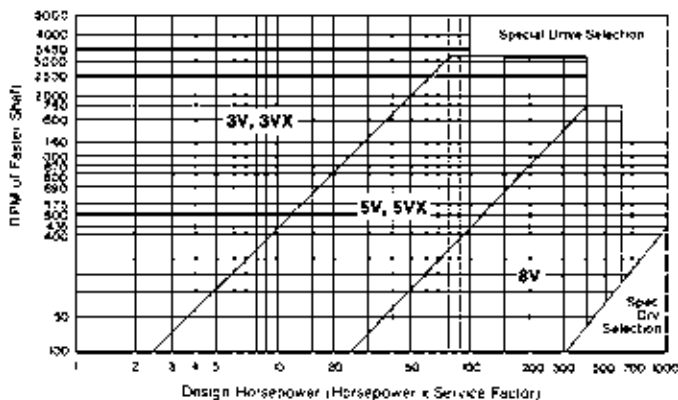
The HP/belt for D-V is 12.00. This value x the .92 factor = 11.04 corrected hp/belt. 42 HP ÷ 11.04 = 3.80. Going to the next whole number, drive requires 3 belts. (Center to center operating distance is 26.4 nominal.)

Order: 1. 4-5VX 1120 D-V belts. 2. 1 - 4/5V7.1-2517

TAPER-LOCK Sheave. 3. 1 - 2-1/8, bore 2517 bushing.

4. 1 - 4/5V28.0-3535 TAPER-LOCK Sheave. 5. 1 - 2-15/16, bore 3535 bushing.

TABLE 1 - NARROW CROSS SECTION SELECTION CHART



SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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Service Factors

Table 2 - Typical Service Factors

Driven Machine Types Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r.	Driver: Normal Torque NEMA Des. A or B Motors DC Shunt Wound Motors Multi-Cylinder Engines			Driver: High Torque NEMA Des. C or D Motors DC Series Wound Motors Single Cylinder Engines			
	Service*			Service*			
	Intermit.	Normal	Contin.	Intermit.	Normal	Cont.	
Agitators for Liquids Blowers and Exhausters Centrif. Pumps, Compressors Fans up to 10HP Light Duty Conveyors	1.0	1.1	1.2	1.1	1.2	1.3	* Note: Intermittent: Up to 6 Hrs./Day Normal: 6-16 Hrs./Day Continuous: 16-24 Hrs./Day Adder for Idlers: Outside on slack side 0.1 Inside on tight side 0.1 Outside on tight side 0.2
Belt Conveyors, Bulk Mat'l Dough Mixers Fans over 10 HP Generators Line Shafts Laundry Machinery Machine Tools Punches, Presses, Shears Printing Machinery Positive Displ. Rotary Pumps Revolving & Vibrating Screens	1.1	1.2	1.3	1.2	1.3	1.4	
Brick Machinery Bucket Elevators Exciters Piston Compressors Conveyors: Drag, Pan, Screw Paper Mill Beaters Piston Pumps Pos. Displacement Blowers Pulverizers Saw Mill, Woodworking Mach'y Textile Machinery	1.2	1.3	1.4	1.4	1.5	1.6	
Crushers: Gyratory, Jaw, Roll Mills: Ball, Rod, Tube Hoists Rubber Calendars, Extruders, Mills	1.3	1.4	1.5	1.6	1.7	1.8	
Chokable Equipment, Fire Hazzard	2.0	2.0	2.0	2.0	2.0	2.0	

Table 3 - NEMA Min. Sheave Dia. for D-V Wedge Drives

RPM	Motor		Motor Horsepower																										
	Sheave		1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20	25	30	40	50	60	75	100	125	150	200	250	300	350	400		
870	Min O.D.	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	5.2	6.0	6.8	6.8	6.8	8.2	8.4	10.0	9.5	12.0	12.5	13.2	13.2	15.0	...	...	...	...	...
	Max F.W.	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	8.5	8.5	8.5	11.6	11.6	11.6	...	...	...	...	...
1160	Min O.D.	...	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.4	5.2	6.0	6.8	6.8	8.2	9.0	10.0	10.0	12.0	13.2	13.2	13.2	15.0	14.1	...	...	...	...
	Max F.W.	...	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	8.5	8.5	11.6	11.6	11.6	11.6	...	...	...	...
1750	Min O.D.	...	...	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.4	4.4	5.2	6.0	6.8	7.4	8.6	8.6	10.5	10.5	13.2	13.2	13.2	13.2	14.1	...	...	...
	Max F.W.	...	...	2.3	2.3	2.3	2.8	2.8	3.4	3.4	4.0	4.0	4.7	4.7	5.3	5.3	5.9	5.9	7.3	7.3	8.5	9.4	9.4	11.6	11.6	11.6	...	...	...
3500	Min O.D.	...	...	...	2.2	2.4	2.4	3.0	3.8	4.4	4.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Max F.W.	...	...	...	2.3	2.3	2.8	2.8	3.4	4.0	4.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Data in unshaded area is per NEMA Standard MG1-14.42.
F.W. = Face Width of sheave

Data in shaded area subject to approval of motor manufacturer.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



Stock D-V Wedge Drives: Non Standard Motor Speeds & Speed-up Drives

For Speeds Other Than Standard Motor Speeds:

Step 1 - Determine Speed Ratio = $\left(\frac{\text{Driver RPM}}{\text{Driven RPM}} \right)$

Step 2 - Compute Design HP. Multiply normal running HP required or nameplate rating by service factor from Table 2.

Step 3 - Determine Maximum Diameter of Driver Sheave

@ 6500 FPM : O.D. = $\frac{6500 \text{ FPM}}{.262 \times \text{RPM}}$

Step 4 - Select Belt Cross Section. Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

Step 5 - Select Drive. Using the belt section from Step 4, make a tentative sheave selection from **stock drive tables**. (Note that several choices are available in the ratio obtained from Step 1. Other choices close to this ratio may also produce a functional drive.) Read onto opposite page and find figure nearest the required center distance. The Arc-Length correction factor is listed in the **shaded row below** the C.D. figure. Read to the top of the table for the belt size.

Step 6 - Size the Drive. From basic horsepower tables locate HP rating at intersection of RPM of faster shaft row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts : $\frac{\text{Design HP}}{\text{Correction HP/ Belt}}$

EXAMPLE OF SELECTION

A V-drive is needed for a 30 HP 2200 RPM gasoline engine, with a 2¹/₄" dia. shaft, driving a generator, with a 2⁷/₁₆" dia. shaft, @ 1800 RPM. It runs 8 hrs. a day. Center distance is 31".

Step 1 - Speed Ratio = $\frac{2200}{1800} = 1.23$

Step 2 - Service Factor = 1.2 Design HP = 30 x 1.2 = 36

Step 3 - Driver Sheave Max. Dia. = $\frac{6500}{.262 \times 2200} = 11.3$

Step 4 - Belt Cross Section = Table 1 indicates 3VX.

Step 5 - In 3VX Stock Drive Selection Tables on pages PT7-48 and PT7-49, find the 1.23 ratio obtained in the Step 1 calculation. At the top of page PT7-48, the most economical drive is shown as 6.5 Driver, 8.0 Driven. The C.D. nearest 31" is 31.1. The correction factor below the C.D. figure is 1.05. Top of the column shows a 3VX850 belt. Refer to Basic HP Tables on page PT7-78 and PT7-79. From the 2200 RPM of faster shaft row and down from the 6.5 smaller sheave heading: 10.2 HP/belt plus an additional hp of .23 in the 1.19 thru 1.26 ratio column. The sum = 10.43 HP/belt x 1.05 arc length correction factor = 10.95 HP/belt.

Number of belts = $\frac{36}{10.95} = 3.28$ or 4 belts

Order: 1- 4 groove 3V 6.5 TAPER-LOCK Sheave, 1-2517 2¹/₄" bore bushing, 1-4 groove 8.0 TAPER-LOCK Sheave, 1-2517 2⁷/₁₆" bore bushing, 4-3VX850 D-V Wedge Belts.

Example of a 3V Speed-Up Drive—

A 20 HP 1750 RPM AC motor, with a 1-5/8" dia. shaft, is to drive a blower, with a 1-7/16" shaft, @ 2500 RPM. The center distance = 26". Equipment runs 24 hrs./day.

- Service Factor from Table 2 is 1.2.
- Design HP=20x1.2=24 HP
- Speed Ratio = $\frac{2500}{1750} = 1.43$
- In Stock Drive Table, under 1.43 ratio, sheaves are listed as 5.6 Driver/8.0 Driven. (In a speed-up drive, the 5.6 sheave becomes the Driven, the 8.0 the Driver.) The opposite page of the table shows the closest center distance as 26.8 with an arc correction factor of 1.03. Belt shown at top of column is 3VX750.
- From **Basic Horsepower Tables** a 5.6 sheave @ 2500 RPM = (9.46 + .37) = 9.83. 9.83 X 1.03 arc length correction factor = 10.12 corrected HP/belt.
- Number of Belts = $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{24}{10.12} = 2.37$
or 3 belts.
- Order: 1-3 groove 3V 8.0 TAPER-LOCK Sheave, 1-1⁵/₈" bore 2517 bushing, 1-3 groove 3V 5.6 TAPER-LOCK Sheave, 1-1⁷/₁₆" bore 1610 bushing, 3-3VX750 D-V belts.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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Table 4 - Narrow Belt Length Correction Factors

Belt Lgth. *	Factor for Belts:			Belt Lgth. s	Factor for Belts:		
	3VX	5V, 5VX	8V, 8VX		3VX	5V, 5VX	8V, 8VX
25	.83	...	...	118	1.12	.99	.89
26.5	.84	...	...	125	1.13	1.00	.90
28	.85	...	...	132	1.14	1.01	.91
30	.86	...	...	140	1.15	1.02	.92
31.5	.87	...	...	150	1.16	1.03	.93
33.5	.88	...	...	160	...	1.04	.94
35.5	.89	..	...	170	...	1.05	.94
37.5	.90	..	...	180	...	1.06	.95
40	.92	...	...	190	...	1.07	.96
42.5	.93	...	...	200	...	1.08	.97
45	.94	...	...	212	...	1.09	.98
47.5	.95	...	...	224	...	1.09	.98
50	.96	.85	...	236	...	1.10	.99
53	.97	.86	...	250	...	1.11	1.00
56	.98	.87	...	265	...	1.12	1.01
60	.99	.88	...	280	...	1.13	1.02
63	1.00	.89	...	300	...	1.14	1.03
67	1.01	.90	...	315	...	1.15	1.03
71	1.02	.91	...	335	...	1.16	1.04
75	1.03	.92	...	355	...	1.17	1.05
80	1.04	.93	...	375	...	...	1.06
85	1.06	.94	...	400	...	...	1.07
90	1.07	.95	...	425	...	...	1.08
95	1.08	.96	...	450	...	..	1.09
100	1.09	.96	.87	475	...	...	1.09
106	1.10	.97	.88	500	...	...	1.10
112	1.11	.98	.88	560	...	...	1.11

* Outside circumference in inches.

Table 5 - Arc Correction Factors

D-d ‡ C	Approx. Arc of Contact on Small Shv.	Factor
.00	1805	1.00
.10	1745	.99
.20	1695	.97
.30	1635	.96
.40	1575	.94
.50	1515	.93
.60	1455	.91
.70	1395	.89
.80	1335	.87
.90	1275	.85
1.00	1205	.82
1.10	1135	.80
1.20	1065	.77
1.30	995	.73
1.40	915	.70
1.50	835	.65

‡ D = Dia. of large sheave.
d = Dia. of small sheave.
C = Center distance.

NOTE: To determine required belt length when center distance and sheave diameters are known, use the following formula.

$$L = 2C + 1.57 (D + d) + \frac{(D + d)^2}{4c}$$



SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		3500 RPM Driver		1750 RPM Driver		1160 RPM Driver		Belt Number and Approx. Center Distance							
	Diameter		Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	3VX 250	3VX 265	3VX 280	3VX 300	3VX 315	3VX 335	3VX 355	3VX 375
	Driver	Driven														
1.00	2.65	2.65	3500	3.78	1750	2.15	1160	1.52	8.3	9.1	9.8	10.8	11.6	12.6	13.6	14.6
	2.80	2.80	3500	4.25	1750	2.41	1160	1.69	8.1	8.9	9.6	10.6	11.4	12.4	13.4	14.4
	3.00	3.00	3500	4.88	1750	2.75	1160	1.93	7.8	8.5	9.3	10.3	11.0	12.0	13.0	14.0
	3.15	3.15	3500	5.34	1750	3.01	1160	2.10	7.6	8.3	9.1	10.1	10.8	11.8	12.8	13.8
	3.35	3.35	3500	5.96	1750	3.34	1160	2.34	7.2	8.0	8.7	9.7	10.5	11.5	12.5	13.5
	3.65	3.65	3500	6.86	1750	3.85	1160	2.68	6.8	7.5	8.3	9.3	10.0	11.0	12.0	13.0
	4.12	4.12	3500	8.24	1750	4.63	1160	3.22	6.0	6.8	7.5	8.5	9.3	10.3	11.3	12.3
	4.50	4.50	3500	9.32	1750	5.25	1160	3.65	...	6.2	6.9	7.9	8.7	9.7	10.7	11.7
	4.75	4.75	3500	10.01	1750	5.65	1160	3.93	...	5.8	6.5	7.5	8.3	9.3	10.3	11.3
	5.00	5.00	3500	10.68	1750	6.06	1160	4.21	...	...	6.2	7.2	7.9	8.9	9.9	10.9
	5.30	5.30	3500	11.48	1750	6.53	1160	4.55	...	...	...	6.7	7.4	8.4	9.4	10.4
	5.60	5.60	3500	12.25	1750	7.01	1160	4.88	...	...	...	...	7.0	8.0	9.0	10.0
	6.00	6.00	3500	13.24	1750	7.63	1160	5.32	...	...	...	...	...	7.3	8.3	9.3
	6.50	6.50	3500	14.41	1750	8.40	1160	5.87	...	...	...	...	...	...	7.5	8.5
	6.90	6.90	3500	15.30	1750	9.01	1160	6.30	...	...	...	...	...	...	...	7.9
	8.00	8.00	3500	17.48	1750	10.64	1160	7.47	...	...	...	...	...	...	...	...
10.60	10.60	3500	20.91	1750	14.22	1160	10.13	...	...	...	...	...	...	...	...
1.05	3.00	3.15	3331	5.00	1665	2.81	1104	1.97	7.7	8.4	9.2	10.2	10.9	11.9	12.9	13.9
	4.75	5.00	3323	10.13	1662	5.72	1101	3.97	...	...	6.3	7.3	8.1	9.1	10.1	11.1
1.06	2.65	2.80	3309	3.91	1655	2.22	1097	1.56	8.2	9.0	9.7	10.7	11.5	12.5	13.5	14.5
	3.15	3.35	3288	5.49	1644	3.08	1090	2.15	7.4	8.1	8.9	9.9	10.6	11.6	12.6	13.6
	4.50	4.75	3314	9.45	1657	5.31	1098	3.70	...	6.0	6.7	7.7	8.5	9.5	10.5	11.5
	5.00	5.30	3300	10.82	1650	6.13	1094	4.26	...	...	...	6.9	7.7	8.7	9.7	10.7
	5.30	5.60	3311	11.61	1655	6.60	1097	4.59	...	...	...	...	7.2	8.2	9.2	10.2
6.50	6.90	3296	14.55	1648	8.48	1092	5.91	...	...	...	...	...	...	...	8.2	
1.07	2.80	3.00	3263	4.42	1631	2.49	1081	1.75	7.9	8.7	9.4	10.4	11.2	12.2	13.2	14.2
	5.60	6.00	3265	12.41	1632	7.09	1082	4.93	...	...	...	...	...	7.6	8.6	9.6
1.08	6.00	6.50	3229	13.42	1614	7.73	1070	5.38	...	...	...	...	...	...	7.9	8.9
1.09	3.35	3.65	3208	6.15	1604	3.44	1063	2.40	7.0	7.8	8.5	9.5	10.3	11.3	12.3	13.3
	4.12	4.50	3201	8.44	1601	4.73	1061	3.29	5.7	6.5	7.2	8.2	9.0	10.0	11.0	12.0
ARC-LENGTH CORRECTION FACTOR →									.83	.84	.85	.86	.87	.88	.89	.90
1.11	4.50	5.00	3146	9.55	1573	5.36	1043	3.73	...	5.8	6.5	7.5	8.3	9.3	10.3	11.3
	3.00	3.35	3129	5.12	1564	2.87	1037	2.01	7.5	8.3	9.0	10.0	10.8	11.8	12.8	13.8
	4.75	5.30	3133	10.24	1567	5.77	1038	4.01	...	...	6.1	7.1	7.9	8.9	9.9	10.9
1.12	5.00	5.60	3122	10.93	1561	6.18	1035	4.29	...	...	...	6.7	7.4	8.4	9.4	10.4
	2.65	3.00	3085	4.04	1542	2.28	1022	1.60	8.1	8.8	9.6	10.6	11.3	12.3	13.3	14.3
	2.80	3.15	3105	4.50	1552	2.53	1029	1.78	7.8	8.6	9.3	10.3	11.1	12.1	13.1	14.1
	3.65	4.12	3096	7.12	1548	3.98	1026	2.77	6.4	7.1	7.9	8.9	9.6	10.6	11.6	12.6
1.13	5.30	6.00	3088	11.74	1544	6.66	1024	4.63	...	...	...	...	6.9	7.9	8.9	9.9
	4.12	4.75	3031	8.53	1515	4.77	1005	3.32	...	6.3	7.0	8.0	8.8	9.8	10.8	11.8
1.15	6.00	6.90	3040	13.52	1520	7.78	1008	5.41	...	...	...	...	...	...	7.6	8.6
	3.15	3.65	3014	5.64	1507	3.15	999	2.20	7.2	7.9	8.7	9.7	10.4	11.4	12.4	13.4
	5.60	6.50	3012	12.54	1506	7.16	998	4.98	...	...	...	...	...	7.2	8.2	9.2
1.16	6.90	8.00	3016	15.59	1508	9.16	999	6.40	...	...	...	...	...	...	...	...
	4.50	5.30	2967	9.63	1483	5.41	983	3.76	...	...	6.3	7.3	8.0	9.0	10.0	11.0
1.18	4.75	5.60	2964	10.33	1482	5.81	982	4.04	...	...	...	6.9	7.6	8.6	9.6	10.6
	2.65	3.15	2935	4.11	1468	2.32	973	1.63	7.9	8.7	9.4	10.4	11.2	12.2	13.2	14.2
1.20	2.80	3.35	2917	4.59	1458	2.58	967	1.81	7.7	8.4	9.2	10.2	10.9	11.9	12.9	13.9
	5.00	6.00	2912	11.03	1456	6.23	965	4.33	...	...	...	...	7.1	8.1	9.1	10.1
1.22	3.00	3.65	2868	5.24	1434	2.93	951	2.05	7.3	8.0	8.8	9.8	10.5	11.5	12.5	13.5
	4.12	5.00	2878	8.59	1439	4.80	954	3.34	...	6.1	6.8	7.8	8.6	9.6	10.6	11.6

Arc & Length Factors are approximate values
 Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																							
	3VX 400	3VX 425	3VX 450	3VX 475	3VX 500	3VX 530	3VX 560	3VX 600	3VX 630	3VX 670	3VX 710	3VX 750	3VX 800	3VX 850	3VX 900	3VX 950	3VX 1000	3VX 1060	3VX 1120	3VX 1180	3VX 1250	3VX 1320	3VX 1400	3VX 1500
1.00	15.8	17.1	18.3	19.6	20.8	22.3	23.8	25.8	27.3	29.3	31.3	33.3	35.8	38.3	40.8	43.3	45.8	48.8	51.8	55	58	62	66	71
	15.6	16.9	18.1	19.4	20.6	22.1	23.6	25.6	27.1	29.1	31.1	33.1	35.6	38.1	40.6	43.1	45.6	48.6	51.6	55	58	62	66	71
	15.3	16.5	17.8	19.0	20.3	21.8	23.3	25.3	26.8	28.8	30.8	32.8	35.3	37.8	40.3	42.8	45.3	48.3	51.3	54	58	61	65	70
	15.1	16.3	17.6	18.8	20.1	21.6	23.1	25.1	26.6	28.6	30.6	32.6	35.1	37.6	40.1	42.6	45.1	48.1	51.1	54	58	61	65	70
	14.7	16.0	17.2	18.5	19.7	21.2	22.7	24.7	26.2	28.2	30.2	32.2	34.7	37.2	39.7	42.2	44.7	47.7	50.7	54	57	61	65	70
	14.3	15.5	16.8	18.0	19.3	20.8	22.3	24.3	25.8	27.8	29.8	31.8	34.3	36.8	39.3	41.8	44.3	47.3	50.3	53	57	60	64	69
	13.5	14.8	16.0	17.3	18.5	20.0	21.5	23.5	25.0	27.0	29.0	31.0	33.5	36.0	38.5	41.0	43.5	46.5	49.5	53	56	60	64	69
	12.9	14.2	15.4	16.7	17.9	19.4	20.9	22.9	24.4	26.4	28.4	30.4	32.9	35.4	37.9	40.4	42.9	45.9	48.9	52	55	59	63	68
	12.5	13.8	15.0	16.3	17.5	19.0	20.5	22.5	24.0	26.0	28.0	30.0	32.5	35.0	37.5	40.0	42.5	45.5	48.5	52	55	59	63	68
	12.2	13.4	14.7	15.9	17.2	18.7	20.2	22.2	23.7	25.7	27.7	29.7	32.2	34.7	37.2	39.7	42.2	45.2	48.2	51	55	58	62	67
11.7	12.9	14.2	15.4	16.7	18.2	19.7	21.7	23.2	25.2	27.2	29.2	31.7	34.2	36.7	39.2	41.7	44.7	47.7	51	54	58	62	67	
11.2	12.5	13.7	15.0	16.2	17.7	19.2	21.2	22.7	24.7	26.7	28.7	31.2	33.7	36.2	38.7	41.2	44.2	47.2	50	54	57	61	66	
10.6	11.8	13.1	14.3	15.6	17.1	18.6	20.6	22.1	24.1	26.1	28.1	30.6	33.1	35.6	38.1	40.6	43.6	46.6	50	53	57	61	66	
9.8	11.0	12.3	13.5	14.8	16.3	17.8	19.8	21.3	23.3	25.3	27.3	29.8	32.3	34.8	37.3	39.8	42.8	45.8	49	52	56	60	65	
9.2	10.4	11.7	12.9	14.2	15.7	17.2	19.2	20.7	22.7	24.7	26.7	29.2	31.7	34.2	36.7	39.2	42.2	45.2	48	52	55	59	64	
...	...	9.9	11.2	12.4	13.9	15.4	17.4	18.9	20.9	22.9	24.9	27.4	29.9	32.4	34.9	37.4	40.4	43.4	46	50	53	57	62	
...	...	...	...	...	...	...	13.4	14.9	16.9	18.9	20.9	23.4	25.9	28.4	30.9	33.4	36.4	39.4	42	46	49	53	58	
1.05	15.2	16.4	17.7	18.9	20.2	21.7	23.2	25.2	26.7	28.7	30.7	32.7	35.2	37.7	40.2	42.7	45.2	48.2	51.2	54	58	61	65	70
	12.3	13.6	14.8	16.1	17.3	18.8	20.3	22.3	23.8	25.8	27.8	29.8	32.3	34.8	37.3	39.8	42.3	45.3	48.3	51	55	58	62	67
1.06	15.7	17.0	18.2	19.5	20.7	22.2	23.7	25.7	27.2	29.2	31.2	33.2	35.7	38.2	40.7	43.2	45.7	48.7	51.7	55	58	62	66	71
	14.9	16.1	17.4	18.6	19.9	21.4	22.9	24.9	26.4	28.4	30.4	32.4	34.9	37.4	39.9	42.4	44.9	47.9	50.9	54	57	61	65	70
	12.7	14.0	15.2	16.5	17.7	19.2	20.7	22.7	24.2	26.2	28.2	30.2	32.7	35.2	37.7	40.2	42.7	45.7	48.7	52	55	59	63	68
	11.9	13.2	14.4	15.7	16.9	18.4	19.9	21.9	23.4	25.4	27.4	29.4	31.9	34.4	36.9	39.4	41.9	44.9	47.9	51	54	58	62	67
	11.4	12.7	13.9	15.2	16.4	17.9	19.4	21.4	22.9	24.9	26.9	28.9	31.4	33.9	36.4	38.9	41.4	44.4	47.4	50	54	57	61	66
9.5	10.7	12.0	13.2	14.5	16.0	17.5	19.5	21.0	23.0	25.0	27.0	29.5	32.0	34.5	37.0	39.5	42.5	45.5	48	52	55	59	64	
1.07	15.4	16.7	17.9	19.2	20.4	21.9	23.4	25.4	26.9	28.9	30.9	32.9	35.4	37.9	40.4	42.9	45.5	48.4	51.4	54	58	61	65	70
	10.9	12.1	13.4	14.6	15.9	17.4	18.9	20.9	22.4	24.4	26.4	28.4	30.9	33.4	35.9	38.4	40.9	43.9	46.9	50	53	57	61	66
1.08	10.2	11.4	12.7	13.9	15.2	16.7	18.2	20.2	21.7	23.7	25.7	27.7	30.2	32.7	35.2	37.7	40.2	43.2	46.2	49	53	56	60	65
1.09	14.5	15.8	17.0	18.3	19.5	21.0	22.5	24.5	26.0	28.0	30.0	32.0	34.5	37.0	39.5	42.0	44.5	47.5	50.5	54	57	61	65	70
	13.2	14.5	15.7	17.0	18.2	19.7	21.2	23.2	24.7	26.7	28.7	30.7	33.2	35.7	38.2	40.7	43.2	46.2	49.2	52	56	59	63	68
...	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.16
1.10	12.5	13.8	15.0	16.3	17.5	19.0	20.5	22.5	24.0	26.0	28.0	30.0	32.5	35.0	37.5	40.0	42.5	45.5	48.5	52	55	59	63	68
1.12	15.0	16.3	17.5	18.8	20.0	21.5	23.0	25.0	26.5	28.5	30.5	32.5	35.0	37.5	40.0	42.5	45.0	48.0	51.0	54	58	61	65	70
	12.1	13.4	14.6	15.9	17.1	18.6	20.1	22.1	23.6	25.6	27.6	29.6	32.1	34.6	37.1	39.6	42.1	45.1	48.1	51	54	58	62	67
	11.7	12.9	14.2	15.4	16.7	18.2	19.7	21.7	23.2	25.2	27.2	29.2	31.7	34.2	36.7	39.2	41.7	44.7	47.7	51	55	58	62	67
1.13	15.6	16.8	18.1	19.3	20.6	22.1	23.6	25.6	27.1	29.1	31.1	33.1	35.6	38.1	40.6	43.1	45.6	48.6	51.6	55	58	62	66	71
	15.3	16.6	17.8	19.1	20.3	21.8	23.3	25.3	26.8	28.8	30.8	32.8	35.3	37.8	40.3	42.8	45.3	48.3	51.3	54	58	61	65	70
	13.9	15.1	16.4	17.6	18.9	20.4	21.9	23.9	25.4	27.4	29.4	31.4	33.9	36.4	38.9	41.4	43.9	46.9	49.9	53	56	60	64	69
	11.1	12.4	13.6	14.9	16.1	17.6	19.1	21.1	22.6	24.6	26.6	28.6	31.1	33.6	36.1	38.6	41.1	44.1	47.1	50	54	57	61	66
1.15	13.0	14.3	15.5	16.8	18.0	19.5	21.0	23.0	24.5	26.5	28.5	30.5	33.0	35.5	38.0	40.5	43.0	46.0	49.0	52	56	59	63	68
	9.9	11.1	12.4	13.6	14.9	16.4	17.9	19.9	21.4	23.4	25.4	27.4	29.9	32.4	34.9	37.4	39.9	42.9	45.9	49	52	56	60	65
1.16	14.7	15.9	17.2	18.4	19.7	21.2	22.7	24.7	26.2	28.2	30.2	32.2	34.7	37.2	39.7	42.2	44.7	47.7	50.7	54	57	61	65	70
	10.5	11.7	13.0	14.2	15.5	17.0	18.5	20.5	22.0	24.0	26.0	28.0	30.5	33.0	35.5	38.0	40.5	43.5	46.5	49	53	56	60	65
	...	9.5	10.8	12.0	13.3	14.8	16.3	18.3	19.8	21.8	23.8	25.8	28.3	30.8	33.3	35.8	38.3	41.3	44.3	47	51	54	58	63
1.18	12.3	13.6	14.8	16.1	17.3	18.8	20.3	22.3	23.8	25.8	27.8	29.8	32.3	34.8	37.3	39.8	42.3	45.3	48.3	51	55	58	62	67
	11.9	13.1	14.4	15.6	16.9	18.4	19.9	21.9	23.4	25.4	27.4	29.4	31.9	34.4	36.9	39.4	41.9	44.9	47.9	51	54	58	62	67
1.19	15.4	16.7	17.9	19.2	20.4	21.9	23.4	25.4	26.9	28.9	30.9	32.9	35.4	37.9	40.4	42.9	45.4	48.4	51.4	54	58	61	65	70
1.20	15.2	16.4	17.7	18.9	20.2	21.7	23.2	25.2	26.7	28.7	30.7	32.7	35.2	37.7	40.2	42.7	45.2	48.2	51.2	54	58	61	65	70
	11.4	12.6	13.9	15.1	16.4	17.9	19.4	21.4	22.9	24.9	26.9	28.9	31.4	33.9	36.4	38.9	41.4	44.4	47.4	50	54	58	61	66
1.22	14.8	16.0	17.3	18.5	19.8	21.3	22.8	24.8	26.3	28.3	30.3	32.3	34.8	37.3	39.8	42.3	44.8	47.8	50.8	54	57	61	65	70
	12.8	14.1	15.3	16.6	17.8	19.3	20.8	22.8	24.3	26.3	28.3	30.3	32.8	35.3	37.8	40.3	42.8	45.8	48.8	52	55	59	63	68

Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		3500 RPM Driver		1750 RPM Driver		1160 RPM Driver		Belt Number and Approx. Center Distance								
	Outside Diam.		Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	3VX 250	3VX 265	3VX 280	3VX 300	3VX 315	3VX 335	3VX 355	3VX 375	
	Driver	Driven															
1.23	3.35	4.12	2838	6.33	1419	3.53	941	2.46	6.6	7.4	8.1	9.1	9.9	10.9	11.9	12.9	
	5.30	6.5	2849	11.84	1424	6.72	944	4.67	...	...	...	...	...	7.5	8.5	9.5
	5.60	6.9	2836	12.62	1418	7.19	940	5.00	...	...	...	...	...	...	7.9	8.9
	6.50	8.0	2840	14.78	1420	8.59	941	5.99	...	...	...	...	...	...	...	...
1.24	3.65	4.5	2831	7.23	1416	4.03	938	2.81	6.1	6.8	7.6	8.6	9.3	10.3	11.3	12.3	
ARC-LENGTH CORRECTION FACTOR →									.82	.83	.84	.86	.86	.88	.89	.90	
1.25	4.50	5.6	2806	9.70	1403	5.44	930	3.78	...	...	...	7.1	7.8	8.8	9.8	10.8
1.27	2.65	3.35	2758	4.18	1379	2.35	914	1.65	7.8	8.5	9.3	10.3	11.0	12.0	13.0	14.0	
	4.75	6.0	2765	10.40	1382	5.85	916	4.07	...	...	...	6.5	7.3	8.3	9.3	10.3
1.29	4.12	5.3	2713	8.65	1357	4.83	899	3.36	...	5.8	6.6	7.6	8.3	9.3	10.3	11.3	
1.30	5.00	6.5	2686	11.11	1343	6.27	890	4.35	...	...	...	...	...	7.7	8.7	9.7
	5.30	6.9	2682	11.90	1341	6.74	889	4.69	...	...	...	...	...	7.1	8.1	9.1
1.31	2.80	3.65	2674	4.68	1337	2.62	886	1.83	7.4	8.2	8.9	9.9	10.7	11.7	12.7	13.7	
	3.15	4.12	2666	5.77	1333	3.22	884	2.25	6.8	7.5	8.3	9.3	10.0	11.0	12.0	13.0	
1.32	3.65	4.75	2681	7.29	1340	4.06	889	2.82	5.9	6.6	7.4	8.4	9.1	10.1	11.1	12.1	
	10.6	14.0	2647	21.34	1323	14.43	877	10.27	...	...	...	...	...	...	...	...
1.33	8.00	10.6	2637	17.92	1319	10.86	874	7.61	...	...	...	...	...	...	...	...
1.34	4.50	6.0	2618	9.76	1309	5.47	868	3.80	...	...	...	6.7	7.5	8.5	9.5	10.5
	6.00	8.0	2619	13.68	1310	7.86	868	5.47	...	...	...	...	...	10.6	11.6	12.6
1.35	3.35	4.5	2596	6.40	1298	3.57	860	2.48	6.3	7.1	7.8	8.8	9.6	10.6	11.6	12.6	
1.36	4.12	5.6	2567	8.69	1283	4.85	851	3.37	...	...	6.3	7.3	8.1	9.1	10.1	11.1
ARC-LENGTH CORRECTION FACTOR →									.82	.83	.84	.86	.86	.88	.89	.90	
1.37	3.65	5.0	2545	7.32	1273	4.08	844	2.84	5.7	6.4	7.2	8.2	8.9	9.9	10.9	11.9	
	4.75	6.5	2550	10.47	1275	5.88	845	4.09	...	...	...	...	6.9	7.9	8.9	9.9
1.38	2.65	3.65	2528	4.24	1264	2.38	838	1.67	7.5	8.3	9.0	10.0	10.8	11.8	12.8	13.8	
	3.00	4.12	2537	5.34	1268	2.98	841	2.08	6.9	7.6	8.4	9.4	10.1	11.1	12.1	13.1	
	5.00	6.9	2529	11.15	1265	6.29	838	4.37	...	...	...	...	...	7.3	8.3	9.4
1.42	3.35	4.75	2457	6.44	1229	3.58	814	2.50	6.1	6.9	7.6	8.6	9.4	10.4	11.4	12.4	
1.43	5.60	8.0	2443	12.73	1222	7.25	810	5.04	...	...	...	...	...	...	...	...
1.44	3.15	4.5	2438	5.83	1219	3.25	808	2.26	6.5	7.2	8.0	9.0	9.7	10.7	11.7	12.7	
1.45	4.50	6.5	2415	9.81	1207	5.49	800	3.81	...	...	...	...	7.0	8.0	9.1	10.1
1.46	3.65	5.3	2400	7.35	1200	4.09	795	2.85	...	6.2	6.9	7.9	8.7	9.7	10.7	11.7	
	4.12	6.0	2394	8.73	1197	4.87	793	3.39	...	...	...	7.0	7.7	8.8	9.8	10.8
	4.75	6.9	2401	10.50	1201	5.90	796	4.10	...	...	...	...	...	7.5	8.5	9.5
1.48	2.80	4.12	2365	4.75	1182	2.66	784	1.86	7.0	7.8	8.5	9.5	10.3	11.3	12.3	13.3	
1.50	3.35	5.0	2333	6.46	1167	3.60	773	2.50	5.9	6.6	7.4	8.4	9.2	10.2	11.2	12.2	
1.51	3.00	4.5	2320	5.39	1160	3.00	769	2.10	6.6	7.3	8.1	9.1	9.8	10.8	11.8	12.8	
	5.30	8.0	2311	11.99	1156	6.79	766	4.72	...	...	...	...	...	...	...	8.2
1.52	3.15	4.75	2309	5.85	1154	3.26	765	2.27	6.2	7.0	7.8	8.8	9.5	10.5	11.5	12.5	
1.54	3.65	5.6	2270	7.38	1135	4.11	752	2.85	...	...	6.7	7.7	8.4	9.4	10.4	11.4
	4.50	6.9	2274	9.83	1137	5.51	754	3.82	...	...	...	...	...	7.7	8.7	9.7
	6.90	10.6	2273	15.81	1136	9.27	753	6.47	...	...	...	...	...	...	...	...
1.57	2.65	4.12	2236	4.30	1118	2.41	741	1.69	7.1	7.9	8.7	9.7	10.4	11.4	12.4	13.4	
1.58	4.12	6.5	2209	8.76	1104	4.89	732	3.40	...	...	...	6.6	7.3	8.3	9.3	10.3
1.59	3.00	4.75	2197	5.41	1098	3.01	728	2.10	6.4	7.1	7.9	8.9	9.6	10.6	11.6	12.6	
	3.35	5.3	2200	6.48	1100	3.61	729	2.51	5.6	6.4	7.1	8.1	8.9	9.9	10.9	11.9	
1.60	3.15	5.0	2192	5.87	1096	3.27	726	2.28	6.0	6.8	7.5	8.6	9.3	10.3	11.3	12.3	
ARC-LENGTH CORRECTION FACTOR →									.81	.82	.83	.85	.86	.87	.89	.89	
1.61	5.00	8.0	2179	11.22	1090	6.32	722	4.39	...	...	...	...	...	...	...	8.4
1.62	2.80	4.5	2163	4.79	1081	2.68	717	1.87	6.7	7.5	8.2	9.2	10.0	11.0	12.0	13.0	
1.64	6.50	10.6	2140	14.95	1070	8.67	709	6.04	...	...	...	...	...	...	...	...
1.65	3.65	6.0	2118	7.40	1059	4.12	702	2.86	...	...	6.3	7.3	8.1	9.1	10.1	11.1
1.68	3.00	5.0	2086	5.42	1043	3.02	691	2.11	6.1	6.9	7.7	8.7	9.4	10.4	11.4	12.4	
	3.35	5.6	2081	6.50	1041	3.62	690	2.52	...	6.1	6.9	7.9	8.6	9.7	10.7	11.7	
	4.12	6.9	2080	8.78	1040	4.90	689	3.40	...	...	...	...	7.0	8.0	9.0	10.0
1.69	3.15	5.3	2067	5.89	1033	3.28	685	2.28	5.8	6.5	7.3	8.3	9.0	10.1	11.1	12.1	
	4.75	8.0	2069	10.55	1035	5.93	686	4.11	...	...	...	...	...	...	7.6	8.6
1.71	2.65	4.5	2045	4.33	1022	2.42	678	1.70	6.8	7.6	8.3	9.3	10.1	11.1	12.1	13.1	
1.71	2.80	4.75	2048	4.80	1024	2.68	679	1.88	6.5	7.3	8.0	9.0	9.8	10.8	11.8	12.8	
1.75	8.00	14.0	1995	18.04	997	10.92	661	7.65	...	...	...	...	...	...	...	...
1.77	6.00	10.6	1974	13.79	987	7.91	654	5.51	...	...	...	...	...	...	...	...
1.78	3.00	5.3	1967	5.44	983	3.03	652	2.11	5.9	6.6	7.4	8.4	9.2	10.2	11.2	12.2	
ARC-LENGTH CORRECTION FACTOR →									.80	.81	.82	.84	.85	.86	.88	.89	

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																									
	3VX 400	3VX 425	3VX 450	3VX 475	3VX 500	3VX 530	3VX 560	3VX 600	3VX 630	3VX 670	3VX 710	3VX 750	3VX 800	3VX 850	3VX 900	3VX 950	3VX 1000	3VX 1060	3VX 1120	3VX 1180	3VX 1250	3VX 1320	3VX 1400	3VX 1500		
1.23	14.1	15.4	16.6	17.9	19.1	20.6	22.1	24.1	25.6	27.6	29.6	31.6	34.1	36.6	39.1	41.6	44.1	47.1	50.1	53	57	60	64	69	69	
	10.7	12.0	13.2	14.5	15.7	17.2	18.7	20.7	22.2	24.2	26.2	28.2	30.7	33.2	35.7	38.2	40.7	43.7	46.7	50	53	57	61	66	66	
	10.2	11.4	12.7	13.9	15.2	16.7	18.2	20.2	21.7	23.7	25.7	27.7	30.2	32.7	35.2	37.7	40.2	43.2	46.2	49	53	56	60	65	65	
	8.6	9.8	11.1	12.3	13.6	15.1	16.6	18.6	20.1	22.1	24.1	26.1	28.6	31.1	33.6	36.1	38.6	41.6	44.6	48	51	55	59	64	64	
1.24	13.6	14.8	16.1	17.3	18.6	20.1	21.6	23.6	25.1	27.1	29.1	31.1	33.6	36.1	38.6	41.1	43.6	46.6	49.6	53	56	61	64	69	69	
	.91	.92	.93	.94	.95	.96	.97	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.15	
1.25	12.1	13.3	14.6	15.8	17.1	18.6	20.1	22.1	23.6	25.6	27.6	29.6	32.1	34.6	37.1	39.6	42.1	45.1	48.1	51	55	58	62	67	67	
1.27	15.3	16.5	17.8	19.0	20.3	21.8	23.3	25.3	26.8	28.8	30.8	32.8	35.3	37.8	40.3	42.1	45.3	48.3	51.3	54	58	61	65	70	70	
	11.5	12.8	14.0	15.3	16.5	18.1	19.6	21.6	23.1	25.1	27.1	29.1	31.6	34.1	36.6	39.1	41.6	44.6	47.6	51	54	58	62	67	67	
1.29	12.6	13.8	15.1	16.3	17.6	19.1	20.6	22.6	24.1	26.1	28.1	30.1	32.6	35.1	37.6	40.1	42.6	45.6	48.6	52	55	59	63	68	68	
1.30	10.9	12.2	13.5	14.7	16.0	17.5	19.0	21.0	22.5	24.5	26.5	28.5	31.0	33.5	36.0	38.5	41.0	44.0	47.0	50	53	57	61	66	66	
	10.4	11.6	12.9	14.2	15.4	16.9	18.4	20.4	21.9	23.9	25.9	27.9	30.4	32.9	35.4	37.9	40.4	43.4	46.4	49	53	56	60	65	65	
1.31	14.9	16.2	17.4	18.7	19.9	21.4	22.9	24.9	26.4	28.4	30.4	32.4	34.9	37.4	39.9	42.4	44.9	47.9	50.9	54	57	61	65	70	70	
	14.3	15.5	16.8	18.0	19.3	20.8	22.3	24.3	25.8	27.8	29.8	31.8	34.3	36.8	39.3	41.8	44.3	47.3	50.3	53	57	60	64	69	69	
	13.4	14.6	15.9	17.1	18.4	19.9	21.4	23.4	24.9	26.9	28.9	30.9	33.4	35.9	38.4	40.9	43.4	46.4	49.4	52	56	59	63	68	68	
1.32	...	...	...	...	...	...	...	...	...	14.1	16.1	18.1	20.6	23.1	25.6	28.1	30.6	33.6	36.6	40	43	47	51	56	56
1.33	...	...	...	...	...	11.8	13.3	15.3	16.8	18.9	20.9	22.9	25.4	27.9	30.4	32.9	35.4	38.4	41.4	44	48	51	55	60	60
1.34	11.7	13.0	14.2	15.5	16.7	18.2	19.7	21.7	23.2	25.2	27.2	29.2	31.7	34.2	36.7	39.3	41.8	44.8	47.8	51	54	58	62	67	67	
	9.0	10.2	11.5	12.7	14.0	15.5	17.0	19.0	20.5	22.5	24.5	26.5	29.0	31.5	34.0	36.5	39.0	42.0	45.0	48	52	55	59	64	64	
1.35	13.8	15.1	16.3	17.6	18.8	20.3	21.8	23.8	25.3	27.3	29.3	31.3	33.8	36.3	38.8	41.3	43.8	46.8	49.8	53	56	60	64	69	69	
1.36	12.3	13.6	14.9	16.1	17.4	18.9	20.4	22.4	23.9	25.9	27.9	29.9	32.4	34.9	37.4	39.9	42.4	45.4	48.4	51	55	58	62	67	67	
	.91	.92	.93	.94	.95	.96	.97	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.15	
1.37	13.2	14.4	15.6	16.9	18.2	19.7	21.2	23.2	24.7	26.7	28.7	30.7	33.2	35.7	38.2	40.7	43.2	46.2	49.2	52	56	59	63	68	68	
	11.1	12.4	13.6	14.9	16.1	17.6	19.1	21.2	22.7	24.7	26.7	28.7	31.2	33.7	36.2	38.7	41.2	44.2	47.2	50	54	57	61	66	66	
1.38	15.0	16.3	17.5	18.8	20.0	21.5	23.0	25.0	26.5	28.6	30.6	32.6	35.1	37.6	40.1	42.6	45.1	48.1	51.1	54	58	61	65	70	70	
	14.4	15.7	16.9	18.2	19.4	20.9	22.4	24.4	25.9	27.9	29.9	31.9	34.4	36.9	39.4	41.9	44.4	47.4	50.4	53	57	60	64	69	69	
1.40	10.6	11.9	13.1	14.4	15.6	17.1	18.6	20.6	22.1	24.1	26.1	28.1	30.6	33.1	35.6	38.1	40.6	43.6	46.6	50	53	57	61	66	66	
1.42	13.6	14.9	16.1	17.4	18.6	20.1	21.6	23.6	25.1	27.1	29.1	31.1	33.6	36.1	38.6	41.1	43.6	46.6	49.6	53	56	60	64	69	69	
1.43	9.2	10.5	11.8	13.0	14.3	15.8	17.3	19.3	20.8	22.8	24.8	26.8	29.3	31.8	34.3	36.8	39.3	42.3	45.3	48	52	55	59	64	64	
1.44	14.0	15.2	16.5	17.7	19.0	20.5	22.0	24.0	25.5	27.5	29.5	31.5	34.0	36.5	39.0	41.5	44.0	47.0	50.0	53	56	60	64	69	69	
1.45	11.3	12.6	13.8	15.1	16.3	17.8	19.3	21.3	22.8	24.8	26.8	28.8	31.3	33.8	36.3	38.8	41.4	44.4	47.4	50	54	57	61	66	66	
	12.9	14.2	15.5	16.7	18.0	19.5	21.0	23.0	24.5	26.5	28.5	30.5	33.0	35.5	38.0	40.5	43.0	46.0	49.0	52	55	59	63	68	68	
1.46	12.0	13.3	14.5	15.8	17.0	18.5	20.0	22.0	23.5	25.5	27.5	29.5	32.0	34.5	37.0	39.5	42.0	45.0	48.0	51	55	58	62	67	67	
	10.8	12.1	13.3	14.6	15.8	17.3	18.8	20.8	22.3	24.3	26.3	28.3	30.8	33.3	35.8	38.3	40.8	43.8	46.8	50	53	57	61	66	66	
1.48	14.6	15.8	17.1	18.3	19.6	21.1	22.6	24.6	26.1	28.1	30.1	32.1	34.6	37.1	39.6	42.1	44.6	47.6	50.6	54	57	61	65	70	70	
1.50	13.4	14.7	15.9	17.2	18.4	19.9	21.4	23.4	24.9	26.9	28.9	30.9	33.4	35.9	38.4	40.9	43.4	46.4	49.4	52	56	59	63	68	68	
	14.1	15.3	16.6	17.8	19.1	20.6	22.1	24.1	25.6	27.6	29.6	31.6	34.1	36.6	39.1	41.6	44.1	47.1	50.1	53	57	60	64	69	69	
1.51	9.5	10.7	12.0	13.2	14.5	16.0	17.5	19.5	21.0	23.0	25.0	27.0	29.5	32.0	34.5	37.0	39.5	42.5	45.5	49	52	56	60	65	65	
	13.8	15.0	16.3	17.5	18.8	20.3	21.8	23.8	25.3	27.3	29.3	31.3	33.8	36.3	38.8	41.3	43.8	46.8	49.8	53	56	60	64	69	69	
1.52	12.7	14.0	15.2	16.5	17.7	19.2	20.7	22.7	24.2	26.2	28.2	30.2	32.7	35.2	37.7	40.2	42.7	45.7	48.7	52	55	59	63	68	68	
	11.0	12.2	13.5	14.8	16.0	17.5	19.0	21.0	22.5	24.5	26.5	28.5	31.0	33.5	36.0	38.5	41.0	44.0	47.0	50	54	57	61	66	66	
1.54	11.1	12.6	14.1	16.2	17.7	19.7	21.7	23.7	26.2	28.7	31.2	33.7	36.2	39.2	42.2	45	49	52	56	61	61
1.57	14.7	15.9	17.2	18.4	19.7	21.2	22.7	24.7	26.2	28.2	30.2	32.2	34.7	37.2	39.7	42.2	44.7	47.7	50.7	54	57	61	65	70	70	
1.58	11.6	12.9	14.1	15.4	16.6	18.1	19.6	21.6	23.1	25.1	27.1	29.1	31.6	34.1	36.6	39.1	41.6	44.6	47.6	51	54	58	62	67	67	
1.59	13.9	15.1	16.4	17.6	18.9	20.4	21.9	23.9	25.4	27.4	29.4	31.4	33.9	36.4	38.9	41.4	43.9	46.9	49.9	53	56	60	64	69	69	
	13.2	14.4	15.7	16.9	18.2	19.7	21.2	23.2	24.7	26.7	28.7	30.7	33.2	35.7	38.2	40.7	43.2	46.2	49.2	52	56	59	63	68	68	
1.60	13.6	14.8	16.1	17.3	18.6	20.1	21.6	23.6	25.1	27.1	29.1	31.1	33.6	36.1	38.6	41.1	43.6	46.6	49.6	53	56	60	64	69	69	
1.61	.90	.92	.93	.94	.95	.96	.97	.98	.99	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.15	
1.62	9.7	10.9	12.2	13.5	14.7	16.2	17.7	19.7	21.2	23.2	25.2	27.2	29.7	32.2	34.7	37.2	39.7	42.7	45.7	49	52	56	60	65	65	
1.64	14.2	15.5	16.7	18.0	19.3	20.8	22.3	24.3	25.8	27.8	29.8	31.8	34.3	36.8	39.3	41.8	44.3	47.3	50.3	53	57	60	64	69	69	
1.64	...	...	...	10.1	11.4	12.9	14.4	16.4	18.0	20.0	22.0	24.0	26.5	29.0	31.5	34.0	36.5	39.5	42.5	46	49	53	57	62	62
1.65	12.4	13.6	14.9	16.1	17.4	18.9	20.4	22.4	23.9	25.9	27.9	29.9	32.4	34.9	37.4	39.9	42.4	45.4	48.4	51	55	58				



SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		3500 RPM Driver		1750 RPM Driver		1160 RPM Driver		Belt Number and Approx. Center Distance*						
	Outside Diam.		Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	Driven RPM	HP/Belt 3VX	3VX 265	3VX 280	3VX 300	3VX 315	3VX 335	3VX 355	3VX 375
	Driver	Driven													
1.79	3.65	6.50	1953	7.42	977	4.13	647	2.87	...	...	6.9	7.6	8.7	9.7	10.7
	4.50	8.00	1959	9.87	980	5.53	649	3.84	...	...	...	...	7.7	8.8	
1.80	2.80	5.00	1944	4.81	972	2.69	644	1.88	7.0	7.8	8.8	9.6	10.6	11.6	12.6
	3.35	6.00	1941	6.52	971	3.62	643	2.52	5.8	6.5	7.5	8.3	9.3	10.3	11.3
	10.60	19.00	1949	21.47	974	14.50	646	10.31	...	...	...	...	...	...	...
1.81	2.65	4.75	1936	4.34	968	2.43	642	1.70	7.4	8.1	9.1	9.9	10.9	11.9	12.9
1.88	3.00	5.60	1860	5.45	930	3.03	617	2.12	6.4	7.1	8.1	8.9	9.9	10.9	11.9
1.90	2.65	5.00	1838	4.35	919	2.44	609	1.71	7.1	7.9	8.9	9.7	10.7	11.7	12.7
	3.65	6.90	1839	7.43	920	4.13	610	2.87	...	...	6.5	7.3	8.3	9.3	10.3
	5.60	10.60	1841	12.81	921	7.29	610	5.07	...	...	...	...	...	...	...
1.91	2.80	5.30	1833	4.82	917	2.69	608	1.88	6.8	7.5	8.5	9.3	10.3	11.3	12.3
1.92	3.15	6.00	1824	5.91	912	3.29	604	2.29	5.9	6.7	7.7	8.4	9.5	10.5	11.5
1.95	3.35	6.50	1791	6.53	895	3.63	593	2.53	...	...	7.1	7.9	8.9	9.9	10.9
	4.12	8.00	1792	8.81	896	4.91	594	3.41	...	...	...	...	...	8.0	9.0
2.01	5.30	10.60	1742	12.05	871	6.82	577	4.74	...	...	...	...	...	...	...
2.02	2.65	5.30	1733	4.36	367	2.44	574	1.71	6.9	7.6	8.7	9.4	10.4	11.4	12.4
	2.80	5.60	1734	4.83	867	2.70	575	1.89	6.5	7.3	8.3	9.0	10.1	11.1	12.1
	3.00	6.00	1735	5.46	868	3.04	575	2.12	6.0	6.8	7.8	8.5	9.6	10.6	11.6
2.04	6.90	14.00	1719	15.88	859	9.30	570	6.49	...	...	...	...	...	...	...
2.08	3.15	6.50	1682	5.93	841	3.30	558	2.30	...	6.2	7.2	8.0	9.0	10.0	11.0
	3.35	6.90	1686	6.54	843	3.63	559	2.53	...	6.7	7.5	8.5	9.5	10.5	11.5
ARC-LENGTH CORRECTION FACTOR →									.81	.82	.84	.85	.86	.87	.88
2.13	2.65	5.60	1640	4.36	820	2.44	543	1.71	6.6	7.4	8.4	9.2	10.2	11.2	12.2
	5.00	10.60	1642	11.27	821	6.35	544	4.41	...	...	...	...	...	...	...
2.16	2.80	6.00	1618	4.84	809	2.70	536	1.89	6.1	6.9	7.9	8.7	9.7	10.7	11.7
	6.50	14.00	1618	14.99	809	8.70	536	6.06	...	...	...	...	...	...	...
2.19	3.00	6.50	1601	5.47	800	3.04	531	2.12	...	6.3	7.3	8.1	9.1	10.1	11.2
2.21	3.15	6.90	1584	5.93	792	3.30	525	2.30	...	...	6.9	7.6	8.7	9.7	10.7
	3.65	8.00	1585	7.45	792	4.14	525	2.88	...	...	...	...	7.3	8.3	9.3
2.24	4.75	10.60	1559	10.60	780	5.95	517	4.13	...	...	...	...	...	...	...
2.29	2.65	6.00	1529	4.37	765	2.45	507	1.71	6.2	7.0	8.0	8.8	9.8	10.8	11.8
2.32	3.00	6.90	1507	5.47	754	3.05	500	2.12	...	...	7.0	7.7	8.8	9.8	10.8
2.34	6.00	14.00	1493	13.83	746	7.93	495	5.52	...	...	...	...	...	...	...
2.35	2.80	6.50	1492	4.84	746	2.70	495	1.89	...	64	7.5	8.2	9.3	10.3	11.3
2.36	10.6	25.00	1480	21.5	740	14.51	491	10.33	...	...	...	...	...	...	...
2.37	4.50	10.60	1476	9.91	738	5.54	489	3.85	...	...	...	...	...	...	...
2.38	8.00	19.00	1468	18.07	734	10.94	487	7.66	...	...	...	...	...	...	...
2.41	3.35	8.00	1453	6.55	726	3.64	482	2.53	...	...	...	...	7.5	8.5	9.6
2.48	2.65	6.50	1411	4.37	705	2.45	468	1.71	5.7	6.5	7.6	8.3	9.4	10.4	11.4
2.49	2.80	6.90	1405	4.85	703	2.71	466	1.89	...	6.0	7.1	7.9	8.9	9.9	10.9
2.51	5.60	14.00	1392	12.84	696	7.31	462	5.08	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									.78	.80	.82	.83	.84	.86	.87
2.56	3.15	8.00	1365	5.94	682	3.30	452	2.30	...	...	...	...	7.6	8.7	9.7
2.59	4.12	10.60	1350	8.84	675	4.92	448	3.42	...	...	...	...	...	...	...
2.63	2.65	6.90	1328	4.38	664	2.45	440	1.72	...	6.1	7.2	8.0	9.0	10.0	11.0
2.66	5.30	14.00	1317	12.08	659	6.83	437	4.75	...	...	...	...	...	...	...
2.69	3.00	8.00	1299	5.48	649	3.05	430	2.13	...	...	...	6.6	7.7	8.8	9.8
2.77	6.90	19.00	1265	15.90	633	9.31	419	6.50	...	...	...	...	...	...	...
2.82	5.00	14.00	1242	11.29	621	6.36	412	4.41	...	...	...	...	...	...	...
2.89	2.80	8.00	1211	4.86	605	2.71	401	1.89	...	...	...	6.8	7.8	8.9	9.9
2.93	3.65	10.60	1194	7.46	597	4.15	396	2.88	...	...	...	...	...	...	...
2.94	6.50	19.00	1191	15.01	596	8.71	395	6.07	...	...	...	...	...	...	...
2.97	4.75	14.00	1179	10.61	590	5.95	391	4.13	...	...	...	...	...	...	...
3.06	2.65	8.00	1145	4.38	572	2.45	379	1.72	...	...	...	6.9	7.9	9.0	10.0
3.13	4.50	14.00	1116	9.92	558	5.55	370	3.85	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	.75	.78	.80	.82	.84	.85

*Note: Stock belt size 3VX250 not shown

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																								
	3VX 400	3VX 425	3VX 450	3VX 475	3VX 500	3VX 530	3VX 560	3VX 600	3VX 630	3VX 670	3VX 710	3VX 750	3VX 800	3VX 850	3VX 900	3VX 950	3VX 1000	3VX 1060	3VX 1120	3VX 1180	3VX 1250	3VX 1320	3VX 1400	3VX 1500	
1.79	11.9	13.2	15.5	15.7	17.0	18.5	20.0	22.0	23.5	25.5	27.5	29.5	32.0	34.5	37.0	39.5	42.0	45.0	48.0	51	55	58	62	67	
1.80	10.0	11.3	12.6	13.8	15.1	16.6	18.1	20.1	21.6	23.6	25.6	27.6	30.1	32.6	35.1	37.6	40.1	43.2	46.2	49	53	56	60	65	
1.81	13.8	15.1	16.3	17.6	18.8	20.3	21.8	23.9	25.4	27.4	29.4	31.4	33.9	36.4	38.9	41.4	43.9	46.9	49.9	53	56	60	64	69	
1.88	12.6	13.8	15.1	16.4	17.6	19.1	20.6	22.6	24.1	26.1	28.1	30.1	32.6	35.1	37.6	40.1	42.6	45.6	48.6	52	55	59	63	68	
1.90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1.91	14.2	15.4	16.7	17.9	19.2	20.7	22.2	24.2	25.7	27.7	29.7	31.7	34.2	36.7	39.2	41.7	44.2	47.2	50.2	53	57	60	64	69	
1.91	13.9	15.2	16.5	17.7	19.0	20.5	22.0	24.0	25.5	27.5	29.5	31.5	34.0	36.5	39.0	41.5	44.0	47.0	50.0	53	56	60	64	69	
1.92	11.6	12.9	14.1	15.4	16.6	18.1	19.7	21.7	23.2	25.2	27.2	29.2	31.7	34.2	36.7	39.2	41.7	44.7	47.7	51	54	58	62	67	
1.92	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1.95	13.6	14.8	16.1	17.3	18.6	20.1	21.6	23.6	25.1	27.1	29.1	31.1	33.6	36.1	38.6	41.1	43.6	46.6	49.6	53	56	60	64	69	
1.95	12.7	14.0	15.3	16.5	17.8	19.3	20.8	22.8	24.3	26.3	28.3	30.3	32.8	35.3	37.8	40.3	42.8	45.8	48.8	52	55	59	63	68	
1.95	12.2	13.4	14.7	15.9	17.2	18.7	20.2	22.2	23.7	25.7	27.7	29.7	32.2	34.7	37.2	39.7	42.2	45.2	48.2	51	55	58	62	67	
1.95	10.3	11.6	12.8	14.1	15.4	16.9	18.4	20.4	21.9	23.9	25.9	27.9	30.4	32.9	35.4	37.9	40.4	43.4	46.4	49	53	56	60	65	
2.01	...	...	9.7	10.9	12.2	13.8	15.3	17.3	18.8	20.9	22.9	24.9	27.4	29.9	32.4	34.9	37.4	40.4	43.4	46	50	53	58	62
2.01	13.7	15.0	16.2	17.5	18.7	20.2	21.7	23.7	25.2	27.2	29.2	31.2	33.7	36.2	38.7	41.2	43.7	46.7	49.7	53	56	60	64	69	
2.02	13.3	14.6	15.8	17.1	18.4	19.9	21.4	23.4	24.9	26.9	28.9	30.9	33.4	35.9	38.4	40.9	43.4	46.4	49.4	52	56	59	63	68	
2.02	12.8	14.1	15.4	16.6	17.9	19.4	20.9	22.9	24.4	26.4	28.4	30.4	32.9	35.4	37.9	40.4	42.9	45.9	48.9	52	55	59	63	68	
2.04	...	...	...	...	...	...	...	13.1	14.7	16.7	18.8	20.8	23.3	25.8	28.4	30.9	33.4	36.4	39.4	42	46	49	53	58
2.08	12.3	13.6	14.8	16.1	17.3	18.9	20.4	22.4	23.9	25.9	27.9	29.9	32.4	34.9	37.4	39.9	42.4	45.4	48.4	51	55	58	62	67	
2.08	11.8	13.1	14.3	15.6	16.9	18.4	19.9	21.9	23.4	25.4	27.4	29.4	31.9	34.4	36.9	39.4	41.9	44.9	47.9	51	54	58	62	67	
2.13	.90	.91	.92	.93	.94	.95	.97	.98	.99	1.00	1.01	1.02	1.03	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	
2.13	13.4	14.7	16.0	17.2	18.5	20.0	21.5	23.5	25.0	27.0	29.0	31.0	33.5	36.0	38.5	41.0	43.5	46.5	49.5	53	56	60	63	69	
2.16	...	...	9.9	11.2	12.4	14.0	15.5	17.5	19.0	21.1	23.1	25.1	27.6	30.1	32.6	35.1	37.6	40.7	43.7	47	50	54	58	63
2.16	13.0	14.3	15.5	16.8	18.0	19.5	21.0	23.0	24.5	26.5	28.5	30.6	33.1	35.6	38.1	40.6	43.1	46.1	49.1	52	56	59	63	68	
2.19	...	...	...	...	...	...	...	13.4	14.9	17.0	19.0	21.1	23.6	26.1	28.7	31.2	33.7	36.7	39.7	43	46	50	54	59
2.19	12.4	13.7	14.9	16.2	17.5	19.0	20.5	22.5	24.0	26.0	28.0	30.0	32.5	35.0	37.5	40.0	42.5	45.5	48.5	52	55	59	63	68	
2.21	12.0	13.2	14.5	15.7	17.0	18.5	20.0	22.0	23.5	25.5	27.5	29.6	32.1	34.6	37.1	39.6	42.1	45.1	48.1	50	55	58	61	67	
2.21	10.6	11.9	13.2	14.4	15.7	17.2	18.7	20.7	22.2	24.3	26.3	28.3	30.8	33.3	35.8	38.3	40.8	43.8	46.8	50	53	57	61	66	
2.24	...	...	10.0	11.3	12.6	14.1	15.7	17.7	19.2	21.2	23.3	25.3	27.8	30.3	32.8	35.3	37.8	40.8	43.9	47	50	54	58	63
2.29	13.1	14.4	15.6	16.9	18.1	19.6	21.1	23.1	24.7	26.7	28.7	30.7	33.2	35.7	38.2	40.7	43.2	46.2	49.2	52	56	59	63	68	
2.32	12.1	13.3	14.6	15.9	17.1	18.6	20.1	22.1	23.6	25.7	27.7	29.7	32.2	34.7	37.2	39.7	42.2	45.2	48.2	51	55	58	62	67	
2.34	11.6	13.1	15.3	17.3	19.4	21.4	24.0	26.5	29.0	31.5	34.1	37.1	40.1	43	47	50	54	59
2.35	12.6	13.8	15.1	16.3	17.6	19.1	20.6	22.6	24.1	26.1	28.1	30.1	32.6	35.2	37.7	40.2	42.7	45.7	48.7	52	55	59	63	68	
2.36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20.8	24.0	27.1	30	34	37	41	46
2.37	...	8.9	10.2	11.5	12.8	14.3	15.9	17.9	19.4	21.4	23.4	25.5	28.0	30.5	33.0	35.5	38.0	41.0	44.0	47	51	54	58	63	
2.38	...	...	...	...	...	...	...	...	...	...	...	15.3	18.0	20.6	23.2	25.7	28.3	31.3	34.4	37	41	44	48	54
2.41	10.8	12.1	13.4	14.7	15.9	17.4	18.9	21.0	22.5	24.5	26.5	28.5	31.0	33.5	36.0	38.5	41.0	44.0	47.0	50	54	57	61	66	
2.48	12.7	13.9	15.2	16.5	17.7	19.2	20.7	22.7	24.2	26.2	28.2	30.3	32.8	35.3	37.8	40.3	42.8	45.8	48.8	52	55	59	63	68	
2.49	12.2	13.5	14.7	16.0	17.3	18.8	20.3	22.3	23.8	25.8	27.8	29.8	32.3	34.8	37.3	39.8	42.3	45.3	48.3	51	55	58	62	67	
2.51	...	...	...	...	...	...	11.9	14.0	15.5	17.6	19.7	21.7	24.3	26.8	29.3	31.8	34.4	37.4	40.4	43	47	50	54	59
2.51	.89	.90	.91	.92	.93	.95	.96	.97	.98	.99	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10	1.11	1.12	1.13	1.14	1.15	
2.56	11.0	12.3	13.5	14.8	16.1	17.6	19.1	21.1	22.6	24.6	26.6	28.6	31.2	33.7	36.2	38.7	41.2	44.2	47.2	50	54	57	61	66	
2.59	...	9.1	10.4	11.7	13.0	14.6	16.1	18.2	19.7	21.7	23.7	25.7	28.3	30.8	33.3	35.8	38.3	41.3	44.3	47	51	54	58	63	
2.63	12.3	13.6	14.9	16.1	17.4	18.9	20.4	22.4	23.9	25.9	27.9	29.9	32.4	34.9	37.4	39.9	42.5	45.5	48.5	51	55	58	62	67	
2.66	...	...	...	...	...	...	12.1	14.2	15.7	17.8	19.9	21.9	24.5	27.0	29.5	32.1	34.6	37.6	40.6	44	47	51	55	60
2.69	11.1	12.4	13.6	14.9	16.2	17.7	19.2	21.2	22.7	24.7	26.7	28.8	31.3	33.8	36.3	38.8	41.3	44.3	47.3	50	54	57	61	66	
2.77	...	...	...	...	...	...	...	...	...	...	...	16.0	18.7	21.3	23.9	26.5	29.0	32.1	35.1	38	42	45	49	54
2.82	...	...	...	...	...	12.3	14.4	16.0	18.0	20.1	22.1	24.7	27.2	29.7	32.3	34.8	37.8	40.8	44	47	51	55	60	
2.89	11.2	12.5	13.8	15.0	16.3	17.8	19.3	21.4	22.9	24.9	26.9	28.9	31.4	33.9	36.4	38.9	41.4	44.4	47.5	50	54	57	61	66	
2.93	...	9.4	10.8	12.1	13.4	14.9	16.4	18.5	20.0	22.0	24.1	26.1	28.6	31.1	33.6	36.1	38.7	41.7	44.7	48	51	55	59	64	
2.94	...	...	...	...	...	...	...	...	...	...	...	16.3	19.0	21.6	24.2	26.8	29.3	32.4	35.4	38	42	46	50	55
2.97	...	...	...	...	...	12.4	14.5	16.1	18.2	20.3	22.3	24.9	27.4	29.9	32.5	35.0	38.0	41.0	44	48	51	55	60	
3.06	11.3	12.6	13.9	15.1	16.4	17.9	19.5	21.5	23.0	25.0	27.0	29.0	31.5	34.0	36.5	39.0	41.6	44.6	47.6	51	54	58	62	67	
3.13	...	...	...	...	...	10.9	12.6	14.7	16.3	18.4	20.4	22.5	25.0	27.6	30.1	32.6	35.2	38.2	41.2	44	48	51	55	60
3.13	.87	.89	.90	.91	.92	.94	.95	.96	.97	.99	1.00	1.01	1.02	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.14	1.15	

Arc & Length Factors are approximate values
 Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		3500 RPM Driver		1750 RPM Driver		1160 RPM Driver		Belt Number and Approx. Center Distance			
	Outside Diam.		Driver RPM	HP/Belt 3VX	Driver RPM	HP/Belt 3VX	Driver RPM	HP/Belt 3VX	3VX 425	3VX 450	3VX 475	3VX 500
	Driver	Driven										
3.14	8.00	25.00	1115	18.09	558	10.94	370	7.67	...	...	...	...
3.17	10.60	33.50	1104	21.52	552	14.52	366	10.33	...	...	...	...
3.18	6.00	19.00	1099	13.84	549	7.94	364	5.52	...	...	...	...
3.20	3.35	10.60	1095	6.56	547	3.65	363	2.54	9.6	10.9	12.3	13.6
3.40	3.15	10.60	1028	5.95	514	3.31	341	2.31	9.7	11.1	12.4	13.7
3.41	5.60	19.00	1025	12.85	513	7.31	340	5.08	...	...	...	...
3.43	4.12	14.00	1021	8.85	511	4.93	338	3.42	...	...	...	...
3.58	3.00	10.60	979	5.49	489	3.05	324	2.13	9.8	11.2	12.5	13.8
3.61	5.30	19.00	970	12.09	485	6.84	321	4.75	...	...	...	...
3.64	6.90	25.00	961	15.91	480	9.32	318	6.50	...	...	...	...
3.83	5.00	19.00	914	11.29	457	6.36	303	4.42	...	...	...	...
3.84	2.80	10.60	912	4.86	456	2.71	302	1.90	10.0	11.3	12.6	13.9
ARC-LENGTH CORRECTION FACTOR →									.88	.89	.91	.92
3.87	6.50	25.00	905	15.02	452	8.71	300	6.07	...	...	...	...
3.88	3.65	14.00	903	7.47	452	4.15	299	2.89	...	...	...	...
4.03	4.75	19.00	868	10.62	434	5.96	288	4.14	...	...	...	...
4.06	2.65	10.60	863	4.39	431	2.46	286	1.72	10.1	11.4	12.7	14.0
4.19	6.00	25.00	835	13.85	417	7.94	277	5.52	...	...	...	...
4.21	8.00	33.50	832	18.09	416	10.95	276	7.67	...	...	...	...
4.23	3.35	14.00	828	6.57	414	3.65	274	2.54	...	...	...	10.0
4.26	4.50	19.00	822	9.93	411	5.55	272	3.86	...	...	...	...
4.50	3.15	14.00	778	5.96	389	3.31	258	2.31	...	...	...	10.1
	5.60	25.00	779	12.86	389	7.31	258	5.08	...	...	...	...
4.66	4.12	19.00	752	8.85	376	4.93	249	3.42	...	...	...	...
4.73	3.00	14.00	740	5.49	370	3.06	245	2.13	...	...	...	10.2
4.75	5.30	25.00	736	12.09	368	6.84	244	4.75	...	...	...	...
4.88	6.90	33.50	717	15.91	358	9.32	238	6.50	...	...	...	...
5.04	5.00	25.00	694	11.30	347	6.36	230	4.42	...	...	...	...
5.07	2.80	14.00	690	4.87	345	2.72	229	1.90	...	...	...	10.3
5.19	6.50	33.50	675	15.02	337	8.71	224	6.07	...	...	...	...
5.26	3.65	19.00	665	7.47	332	4.15	220	2.89	...	...	...	...
5.31	4.75	25.00	659	10.62	330	5.96	219	4.14	...	...	...	...
5.37	2.65	14.00	652	4.39	326	2.46	216	1.72	...	...	...	10.4
ARC-LENGTH CORRECTION FACTOR →									.80	.83	.85	.87
5.61	4.50	25.00	624	9.93	312	5.55	207	3.86	...	...	...	...
5.62	6.00	33.50	623	13.85	311	7.94	206	5.52	...	...	...	...
5.74	3.35	19.00	609	6.57	305	3.65	202	2.54	...	...	...	...
6.03	5.60	33.50	581	12.86	290	7.32	192	5.08	...	...	...	...
6.11	3.15	19.00	573	4.91	286	2.84	190	2.31	...	...	...	...
6.13	4.12	25.00	571	8.85	285	4.93	189	3.43	...	...	...	...
6.37	5.30	33.50	549	12.09	275	6.84	182	4.75	...	...	...	...
6.42	3.00	19.00	545	5.49	272	3.06	181	2.13	...	...	...	...
6.76	5.00	33.50	518	11.30	259	6.36	172	4.42	...	...	...	...
6.89	2.80	19.00	508	4.87	254	2.72	168	1.90	...	...	...	...
6.93	3.65	25.00	505	7.48	253	4.15	167	2.89	...	...	...	...
7.12	4.75	33.50	492	10.62	246	5.96	163	4.14	...	...	...	...
7.29	2.65	19.00	480	4.39	240	2.46	159	1.72	...	...	...	...
7.52	4.50	33.50	466	9.93	233	5.56	154	3.86	...	...	...	...
7.56	3.35	25.00	463	6.57	231	3.65	153	2.54	...	...	...	...
8.05	3.15	25.00	435	5.96	217	3.31	144	2.31	...	...	...	...
8.22	4.12	33.50	426	8.85	213	4.93	141	3.43	...	...	...	...
8.46	3.00	25.00	414	5.50	207	3.06	137	2.13	...	...	...	...
9.07	2.80	25.00	386	4.87	193	2.72	128	1.90	...	...	...	...
9.29	3.65	33.50	377	7.48	188	4.15	125	2.89	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	...	...	...
9.60	2.65	25.00	365	4.39	182	2.46	121	1.72	...	...	...	...
10.14	3.35	33.50	345	6.57	173	3.65	114	2.54	...	...	...	...
10.79	3.15	33.50	324	5.96	162	3.31	108	2.31	...	...	...	...
11.34	3.00	33.50	309	5.50	154	3.06	102	2.13	...	...	...	...
12.16	2.80	33.50	288	4.87	144	2.72	95	1.90	...	...	...	...
12.87	2.65	33.50	272	4.39	136	2.46	90	1.72	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	...	...	...

*Note: Stock belt sizes 3VX250 thru 3VX400 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



3VX STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																			
	3VX 530	3VX 560	3VX 600	3VX 630	3VX 670	3VX 710	3VX 750	3VX 800	3VX 850	3VX 900	3VX 950	3VX 1000	3VX 1060	3VX 1120	3VX 1180	3VX 1250	3VX 1320	3VX 1400	3VX 1500	
3.14	...	...	...	...	...	...	...	...	...	...	19.8	22.5	25.7	28.8	32.0	35.6	39	43	48
3.17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25.3	29	33	39
3.18	...	...	...	...	...	14.4	16.6	19.3	21.9	24.5	27.1	29.7	32.7	35.8	38.8	42.4	46	50	55
3.20	15.1	16.7	18.7	20.2	22.3	24.3	26.3	28.8	31.3	33.9	36.4	38.9	41.9	44.9	47.9	51.4	55	59	64	
3.40	15.2	16.8	18.8	20.4	22.4	24.4	26.4	29.0	31.5	34.0	36.5	39.0	42.0	45.1	48.1	51.6	55	59	64	
3.41	...	...	...	...	...	14.7	16.9	19.5	22.2	24.8	27.4	29.9	33.0	36.1	39.1	42.7	46	50	55
3.43	11.2	12.8	15.0	16.5	18.6	20.7	22.7	25.3	27.8	30.4	32.9	35.4	38.5	41.5	44.5	48.0	52	56	61	
3.58	15.3	16.9	18.9	20.5	22.5	24.5	26.6	29.1	31.6	34.1	36.6	39.1	42.2	45.2	48.2	51.7	55	59	64	
3.61	...	...	...	...	...	14.8	17.0	19.7	22.4	25.0	27.6	30.1	33.2	36.3	39.3	42.9	46	50	56
3.64	...	...	...	...	...	...	...	...	...	17.6	20.5	23.2	26.4	29.6	32.7	36.3	40	44	49
3.83	...	...	...	...	...	15.0	17.2	19.9	22.6	25.2	27.8	30.4	33.4	36.5	39.5	43.1	47	51	56
3.84	15.5	17.0	19.1	20.6	22.6	24.7	26.7	29.2	31.7	34.3	36.8	39.3	42.3	45.3	48.3	51.8	55	59	64	
	.93	.94	.95	.97	.98	.99	1.00	1.02	1.03	1.04	1.05	1.06	1.08	1.09	1.10	1.11	1.12	1.13	1.14	
3.87	...	...	...	...	...	...	...	...	...	17.9	20.7	23.4	26.7	29.8	33.0	36.6	40	44	49
3.88	11.5	13.1	15.3	16.9	18.9	21.0	23.1	25.6	28.2	30.7	33.2	35.8	38.8	41.8	44.8	48.4	52	56	61	
4.03	...	...	...	...	...	15.2	17.4	20.1	22.7	25.4	27.9	30.5	33.6	36.7	39.7	43.3	47	51	56
4.06	15.6	17.1	19.2	20.7	22.8	24.8	26.8	29.3	31.9	34.4	36.9	39.4	42.4	45.4	48.4	51.9	55	59	64	
4.19	...	...	...	...	...	...	...	...	...	18.2	21.0	23.8	27.0	30.2	33.3	36.9	41	45	50
4.21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22.9	26.9	31	35	44
4.23	11.7	13.3	15.5	17.0	19.1	21.2	23.3	25.8	28.4	30.9	33.5	36.0	39.0	42.0	45.1	48.6	52	56	61	
4.26	...	...	...	...	...	15.3	17.6	20.3	22.9	25.5	28.1	30.7	33.8	36.8	39.9	43.4	47	51	56
4.50	11.8	13.4	15.6	17.2	19.3	21.3	23.4	26.0	28.5	31.1	33.6	36.1	39.2	42.2	45.2	48.7	52	46	61	
4.66	...	...	...	...	13.3	15.6	17.8	20.5	23.2	25.8	28.4	31.0	34.0	37.1	40.2	43.7	47	51	56
4.73	...	13.5	15.7	17.3	19.4	21.4	23.5	26.1	28.6	31.2	33.7	36.2	39.3	42.3	45.3	48.8	52	56	61	
4.75	...	...	...	...	...	...	...	...	...	18.6	21.5	24.2	27.4	30.6	33.8	37.4	41	45	50
4.88	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23.5	27.6	31	36	41
5.04	...	...	...	...	...	...	...	...	...	18.8	21.6	24.4	27.6	30.8	34.0	37.6	41	45	50
5.07	12.0	13.7	15.8	17.4	19.5	21.6	23.6	26.2	28.8	31.3	33.8	36.4	39.4	42.4	45.5	49.0	53	57	62	
5.19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23.8	27.8	32	36	41
5.26	...	...	...	...	13.5	15.9	18.1	20.8	23.5	26.1	28.7	31.3	34.4	37.4	40.5	44.1	48	52	57
5.31	...	...	...	...	...	...	...	...	...	18.9	21.8	24.6	27.8	31.0	34.1	37.8	41	46	51
5.37	12.1	13.8	15.9	17.5	19.6	21.7	23.8	26.3	28.9	31.4	34.0	36.5	39.5	42.6	45.6	49.1	53	57	62	
	.89	.91	.93	.94	.96	.97	.99	1.00	1.02	1.03	1.04	1.05	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14
5.61	...	...	...	...	...	...	...	...	...	19.1	21.9	24.7	28.0	31.2	34.3	38.0	42	46	51
5.62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24.1	28.1	32	36	42
5.74	...	...	...	...	13.7	16.0	18.3	21.0	23.7	26.3	28.9	31.5	34.6	37.6	40.7	44.3	48	52	57
6.03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24.3	28.4	32	37	42
6.11	...	...	...	...	13.8	16.2	18.4	21.1	23.8	26.4	29.0	31.6	34.7	37.8	40.8	44.4	48	52	57
6.13	...	...	...	...	...	...	...	...	16.3	19.3	22.2	25.0	28.2	31.4	34.6	38.2	42	46	41
6.37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24.5	28.6	32	39	42
6.42	...	...	...	...	13.9	16.3	18.5	21.2	23.9	26.5	29.1	31.7	34.8	37.9	40.9	44.5	48	52	57
6.76	20.9	24.7	28.7	33	37	42
6.89	...	...	...	...	14.1	16.4	18.6	21.4	24.0	26.7	29.3	31.9	34.9	38.0	41.1	44.7	48	52	57
6.93	...	...	...	...	...	...	...	...	16.6	19.6	22.5	25.3	28.5	31.7	34.9	38.5	42	46	51
7.12	21.1	24.8	28.9	33	37	43
7.29	...	...	...	...	14.1	16.5	18.7	21.4	24.1	26.8	29.4	32.0	35.1	38.1	41.2	44.8	48	52	57
7.52	21.2	25.0	29.1	33	37	43
7.56	...	...	...	...	...	...	...	...	16.7	19.8	22.7	25.4	28.7	31.9	35.1	38.7	42	46	52
8.05	...	...	...	...	...	...	...	...	16.9	19.9	22.8	25.6	28.8	32.0	35.2	38.9	42	47	52
8.22	21.4	25.2	29.3	33	38	43
8.46	...	...	...	...	...	...	...	...	17.0	20.0	22.9	25.7	28.9	32.1	35.3	39.0	43	47	52
9.07	...	...	...	...	...	...	...	...	17.1	20.1	23.0	25.8	29.1	32.3	35.4	39.1	43	47	52
9.29	21.7	25.5	29.6	34	38	43
	.79	.84	.88	.91	.94	.96	.98	1.00	1.02	1.04	1.05	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	
9.60	...	...	...	...	...	...	...	...	17.2	20.2	23.1	25.9	29.2	32.4	35.5	39.2	43	47	52
10.14	21.9	25.6	29.8	34	38	43
10.79	22.0	25.8	29.9	34	38	44
11.34	22.1	25.8	30.0	34	38	44
12.16	22.2	26.0	30.1	34	38	44
12.87	22.3	26.1	30.2	34	39	4
78	.86	.92	.96	1.00	1.01

Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver				1160 RPM Driver				870 RPM Driver				Belt Number and Approx. Center Distance**									
	Diameter		Driven		HP/Belt		Driven		HP/Belt		Driven		HP/Belt		5VX 500	5VX 560	5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800		
	Driver	Driven	RPM	5VX	5V	RPM	5VX	5V	RPM	5VX	5V	RPM	5VX	5V										
1.00	4.40	4.40	1750	8.2	3.9	1160	5.9	3.1	870	5.6	2.6	18.1	21.1	23.1	24.6	26.6	28.6	30.6	33.1					
	4.65	4.65	1750	9.4	5.0	1160	6.1	3.9	870	5.3	3.2	17.7	20.7	22.7	24.2	26.2	28.2	30.2	32.7					
	4.90	4.90	1750	10.6	6.2	1160	7.5	4.7	870	5.9	3.8	17.3	20.3	22.3	23.8	25.8	27.8	29.8	32.3					
	5.20	5.20	1750	11.9	7.5	1160	8.5	5.6	870	6.6	4.5	16.8	19.8	21.8	23.3	25.3	27.3	29.3	31.8					
	5.50	5.50	1750	13.3	8.8	1160	9.4	6.6	870	7.3	5.2	16.4	19.4	21.4	22.9	24.9	26.9	28.9	31.4					
	5.90	5.90	1750	15.1	10.6	1160	10.7	7.8	870	8.3	6.2	15.7	18.7	20.7	22.2	24.2	26.2	28.2	30.7					
	6.30	6.30	1750	16.9	12.6	1160	11.9	9.0	870	9.3	7.1	15.1	18.1	20.1	21.6	23.6	25.6	27.6	30.1					
	6.70	6.70	1750	18.7	13.9	1160	13.2	10.2	870	10.4	8.1	14.5	17.5	19.5	21.0	23.0	25.0	27.0	30.5					
	7.10	7.10	1750	20.4	15.6	1160	14.4	11.4	870	11.0	9.0	13.9	16.8	18.8	20.3	22.3	24.3	26.3	28.8					
	7.50	7.50	1750	...	...	1160	15.6	12.6	870	12.2	9.9	13.2	16.2	18.2	19.7	21.7	23.7	25.7	28.2				
	8.00	8.00	1750	...	...	1160	17.0	14.1	870	13.3	11.1	12.4	15.4	17.4	18.9	20.9	22.9	24.9	27.4				
	8.50	8.50	1750	...	...	1160	18.7	15.5	870	14.0	12.2	11.7	14.6	16.6	18.1	20.1	22.1	24.1	26.6				
	9.00	9.00	1750	...	...	1160	20.1	17.0	870	15.7	13.4	10.9	13.9	15.9	17.4	19.4	21.4	23.4	25.9				
	9.25	9.25	1750	...	...	1160	20.9	17.7	870	16.4	13.9	10.5	13.5	15.5	17.0	19.0	21.0	23.0	25.5				
	9.75	9.75	1750	...	...	1160	22.4	19.1	870	17.4	15.1	...	12.7	14.7	16.2	18.2	20.2	22.2	24.7				
	10.30	10.30	1750	...	...	1160	24.0	20.6	870	18.6	16.3	...	11.8	13.8	15.3	17.3	19.3	21.3	23.8				
10.90	10.90	1750	...	...	1160	25.7	22.2	870	20.2	17.6	...	...	12.9	14.4	16.4	18.4	20.4	22.9					
11.30	11.30	1750	...	...	1160	26.8	23.3	870	20.9	18.5	...	...	...	13.8	15.8	17.8	19.8	22.3					
11.80	11.80	1750	...	...	1160	28.2	24.6	870	22.0	19.5	...	...	...	...	15.0	17.0	19.0	21.5					
12.50	12.50	1750	...	...	1160	30.2	26.4	870	23.6	21.0	...	...	...	...	...	15.9	17.9	20.4					
13.20	13.20	1750	...	...	1160	31.1	28.2	870	25.1	22.5	...	...	...	...	...	...	...	16.8					
14.00	14.00	1750	...	...	1160	34.3	30.2	870	26.9	24.1	...	...	...	...	...	...	...	18.0					
15.00	15.00	1750	...	...	1160	...	...	870	29.0	26.2	...	...	...	...	...	...	...	...
16.00	16.00	1750	...	...	1160	...	...	870	31.1	28.1	...	...	...	...	...	...	...	...
1.03	9.00	9.25	1702	28.6	23.3	1128	20.3	17.1	845	15.7	13.5	1.07	13.7	15.7	17.2	19.2	21.2	23.2	25.7					
1.04	10.90	11.30	1688	36.1	30.1	1119	25.8	22.4	837	20.1	17.7	...	...	12.6	14.1	16.1	18.1	20.1	22.6				
	11.30	11.80	1675	37.7	31.4	1110	27.0	23.5	837	21.0	18.6	...	...	...	...	15.4	17.4	19.4	21.9				
1.05	4.65	4.90	1659	9.7	5.4	1100	6.9	4.2	829	5.4	3.4	17.5	20.5	22.5	24.0	26.0	28.0	30.0	32.5					
	9.25	9.75	1659	29.8	24.4	1100	21.1	17.9	829	16.4	14.1	...	13.1	15.1	16.6	18.6	20.6	22.6	25.1					
1.06	4.40	4.65	1654	8.6	4.3	1096	6.1	3.4	821	4.8	2.8	17.9	20.9	22.9	24.4	26.4	28.4	30.4	32.9					
	4.90	5.20	1654	10.9	6.6	1096	7.7	5.0	821	6.1	4.0	17.1	20.1	22.1	23.6	25.6	27.6	29.6	32.1					
	5.20	5.50	1653	12.3	7.9	1092	8.7	5.9	821	6.8	4.7	16.6	19.6	21.6	23.1	25.1	27.1	29.1	31.6					
	6.30	6.70	1644	17.3	12.8	1090	12.2	9.3	821	9.5	7.4	14.8	17.8	19.8	21.3	23.3	25.3	27.3	29.8					
	6.70	7.10	1650	19.0	14.4	1094	13.4	10.5	821	10.4	8.3	14.2	17.2	19.2	20.7	22.7	24.7	26.7	29.2					
	7.10	7.50	1655	20.7	16.0	1097	14.6	11.7	821	11.4	9.3	13.5	16.5	18.5	20.0	22.0	24.0	26.0	28.5					
	8.00	8.50	1646	24.6	19.7	1091	17.4	14.4	821	13.5	11.3	12.0	15.0	17.0	18.5	20.5	22.5	24.5	27.0					
	8.50	9.00	1652	26.7	21.6	1095	18.9	15.8	821	14.7	12.5	11.3	14.3	16.3	17.8	19.8	21.8	23.8	26.3					
	9.75	10.30	1656	31.8	26.2	1097	22.6	19.4	821	17.6	15.3	...	12.2	14.3	15.8	17.8	19.8	21.8	24.3					
	10.30	10.90	1653	33.9	28.2	1096	24.2	20.9	821	18.8	16.5	...	...	13.3	14.8	16.8	18.8	20.8	23.3				
1.07	11.80	12.50	1651	39.6	33.1	1095	28.5	24.9	821	22.2	19.8	...	...	...	...	14.4	16.4	18.4	20.9				
	12.50	13.20	1656	42.1	35.1	1098	30.4	26.7	821	23.8	21.3	...	...	...	...	...	15.3	17.3	19.8				
	13.20	14.00	1649	44.6	37.1	1093	32.4	28.5	821	25.3	22.7	...	...	...	...	...	...	16.1	18.6				
	ARC-LENGTH CORRECTION FACTOR →													.85	.87	.88	.89	.90	.91	.92	.93			
1.08	5.50	5.90	3259	13.7	9.4	1080	9.7	6.9	813	7.6	5.5	16.0	19.0	21.0	22.5	24.5	26.5	28.5	31.0					
	5.90	6.30	1629	15.5	11.1	1085	10.9	8.1	813	8.5	6.4	15.4	18.4	20.4	21.9	23.9	25.9	27.9	30.4					
	7.50	8.00	1637	22.5	17.7	1087	15.9	12.9	813	12.3	10.2	12.8	15.8	17.8	19.3	21.3	23.3	25.3	27.8					
	14.00	15.00	1639	47.0	39.3	1082	34.6	30.5	813	27.1	24.4	...	...	...	...	...	...	...	...
	15.00	16.00	1633	...	...	1087	37.2	32.9	813	29.2	26.4	...	...	...	...	...	...	...	...
1.09	9.00	9.75	1640	28.9	23.6	1070	20.5	17.3	806	15.9	13.7	...	13.3	15.3	16.8	18.8	20.8	22.8	25.3					
	10.90	11.80	1614	36.4	30.3	1071	26.0	22.6	806	20.3	17.9	...	...	...	13.7	15.7	17.7	19.7	22.2				
1.10	8.50	9.25	1615	26.8	21.8	1065	19.0	16.0	798	14.7	12.6	11.1	14.1	16.1	17.6	19.6	21.6	23.6	26.1					
1.11	10.30	11.30	1607	34.1	28.4	1056	24.3	21.1	791	18.9	16.6	...	...	13.0	14.5	16.5	18.5	20.5	23.0				
	9.25	10.30	1594	30.3	24.7	1041	21.3	18.2	784	16.5	14.3	...	12.6	14.6	16.1	18.1	20.1	22.1	24.6					
	11.30	12.50	1570	38.0	31.8	1048	27.2	23.8	784	21.2	18.8	...	...	...	...	...	...	...	...
1.12	4.40	4.90	1581	8.8	4.7	1039	6.3	3.6	777	4.9	3.0	17.7	20.7	22.7	24.2	26.2	28.2	30.2	32.7					
	4.65	5.20	1568	10.0	5.8	1035	7.1	4.4	777	5.6	3.6	17.3	20.3	22.3	23.8	25.8	27.8	29.8	32.3					
	6.70	7.50	1561	19.3	14.7	1035	13.6	10.7	777	10.6	8.5	13.8	16.8	18.8	20.3	22.3	24.3	26.3	28.9					
	9.75	10.90	1561	32.0	26.6	1036	22.8	19.6	777	17.7	15.4	...	...	13.8	15.3	17.3	19.3	21.3	23.8				
	11.80	13.20	1564	39.9	33.4	1036	28.6	25.1	777	22.3	19.9	13.9	15.8	17.9	20.4				
12.50	14.00	1563	42.4	35.5	1035	30.6	27.0	777	23.9	21.4	...	...	...	...	...	...	14.7	16.7	19.2				

NOTES: * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance**																						
	5VX 850	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2800	5V 3150	5V 3550
1.00	35.6	38.1	40.6	43.1	46.1	49.1	52.1	55.6	59.1	63.1	68	73	78	83	88	93	99	105	111	118	133	151	171
	35.2	37.7	40.2	42.7	45.7	48.7	51.7	55.2	58.7	62.7	68	73	78	83	88	93	99	105	111	118	133	150	170
	34.8	37.3	39.8	42.3	45.3	48.3	51.3	54.8	58.3	62.3	67	72	77	82	87	92	98	104	110	117	132	150	170
	34.3	36.8	39.3	41.8	44.8	47.8	50.8	54.3	57.8	61.8	67	72	77	82	87	92	98	104	110	117	132	149	169
	33.9	36.4	38.9	41.4	44.4	47.4	50.4	53.9	57.4	61.4	66	71	76	81	86	91	97	103	109	116	131	149	169
	33.2	35.7	38.2	40.7	43.7	46.7	49.7	53.2	56.7	60.7	66	71	76	81	86	91	97	103	109	116	131	148	168
	32.6	35.1	37.6	40.1	43.1	46.1	49.1	52.6	56.1	60.1	65	70	75	80	85	90	96	102	108	115	130	148	168
	32.0	34.5	37.0	39.5	42.5	45.5	48.5	52.0	55.5	59.5	64	69	74	79	84	89	95	101	107	115	129	147	167
	31.3	33.8	36.3	38.8	41.8	44.8	47.8	51.3	54.8	58.8	64	69	74	79	84	89	95	101	107	114	129	146	168
	30.7	33.2	35.7	38.2	41.2	44.2	47.2	50.7	54.2	58.2	63	68	73	78	83	88	94	100	106	113	128	146	166
	29.9	32.4	34.9	37.4	40.4	43.4	46.4	49.9	53.4	57.4	62	67	72	77	82	87	93	99	105	112	127	150	165
	29.1	31.6	34.1	36.6	39.6	42.6	45.6	49.1	52.6	56.6	62	67	72	77	82	87	93	99	105	112	127	144	164
	28.4	30.9	33.4	35.9	38.9	41.9	44.9	48.4	51.9	55.9	61	66	71	76	81	86	92	98	104	111	126	143	163
	28.0	30.5	33.0	35.5	38.5	41.5	44.5	48.0	51.5	55.5	60	65	70	75	80	85	91	97	103	110	125	143	163
	27.2	29.7	32.2	34.7	37.7	40.7	43.7	47.2	50.7	54.7	60	65	70	75	80	85	91	97	102	110	124	143	162
	26.3	28.8	31.3	33.8	36.8	39.8	42.8	46.3	49.8	53.8	59	64	69	74	79	84	90	96	102	109	124	141	161
	25.4	27.9	30.4	32.9	35.9	38.9	41.9	45.4	48.9	52.9	58	63	68	73	78	83	89	95	101	107	123	140	160
	24.8	27.3	29.8	32.3	35.3	38.3	41.3	44.8	48.3	52.3	57	62	67	72	77	82	88	94	100	107	122	140	160
	24.0	26.5	29.0	31.5	34.5	37.5	40.5	44.0	47.5	51.5	56	61	66	72	76	81	87	93	99	106	121	139	159
	22.9	25.4	27.9	30.4	33.4	36.4	39.4	42.9	46.4	50.4	55	60	65	70	75	80	86	92	98	105	120	138	158
21.8	24.3	26.8	29.3	32.3	35.3	38.3	41.8	45.3	49.3	54	59	64	69	74	79	85	91	97	104	119	137	157	
20.5	23.0	25.5	28.0	31.0	34.0	37.0	40.5	44.0	48.0	53	58	63	68	73	78	84	90	96	103	118	136	155	
19.0	21.4	23.9	26.4	29.4	32.4	35.4	38.9	42.4	46.4	51	56	61	66	71	76	82	88	94	101	116	134	154	
...	19.9	22.4	24.9	27.9	30.9	33.9	37.4	40.9	44.9	50	55	60	64	70	75	81	87	93	100	115	132	152	
1.03	28.2	30.7	33.2	35.7	38.7	41.7	44.7	48.2	51.7	55.7	61	66	71	76	81	86	92	98	104	111	126	143	163
1.04	25.1	27.6	30.1	32.6	35.6	38.6	41.6	45.1	48.6	52.6	58	63	68	73	78	83	89	95	101	108	123	140	160
1.04	24.4	26.9	29.4	31.9	34.9	37.9	40.9	44.4	47.9	51.9	57	62	67	72	77	81	88	94	100	107	122	139	159
1.05	35.0	37.5	40.0	42.5	45.5	48.5	51.5	55.0	58.5	62.5	68	72	77	82	87	92	98	104	110	117	132	150	170
1.05	27.6	30.1	32.6	35.1	38.1	41.1	44.1	47.6	51.1	55.1	60	65	70	75	80	85	91	97	103	110	125	143	163
1.06	35.4	37.9	40.4	42.9	45.9	48.9	51.9	55.4	58.9	62.9	68	73	78	83	88	93	99	105	111	118	133	150	170
	34.6	34.38	37.3	39.8	42.8	45.8	48.8	52.3	55.8	59.5	65	70	75	80	85	90	96	102	108	115	130	147	167
	34.1	36.6	39.1	41.6	44.6	47.6	50.6	54.1	57.6	61.6	67	72	77	82	87	92	98	104	110	117	132	149	169
	32.3	37.1	39.6	42.1	45.1	48.1	51.1	54.6	58.1	62.1	67	72	77	82	87	92	98	104	110	117	132	150	170
	31.7	34.2	36.7	39.2	42.2	45.2	48.2	51.7	55.2	59.2	64	69	74	79	84	89	95	101	107	114	129	147	167
	31.0	33.5	36.0	38.5	41.5	44.5	47.5	51.0	54.5	58.5	64	68	74	78	83	88	94	100	106	113	128	146	166
	29.5	32.0	34.5	37.0	40.0	43.0	46.0	49.5	53.0	57.0	62	67	72	77	82	87	93	99	105	112	127	144	164
	28.8	31.3	33.8	36.3	39.3	42.3	45.3	48.8	52.3	56.3	61	66	71	76	81	86	92	98	104	111	126	144	164
	26.8	29.3	31.8	34.3	37.3	40.3	43.3	46.8	50.3	54.3	59	64	69	74	79	84	90	96	102	109	124	142	162
	25.9	28.3	30.8	33.3	36.3	39.3	42.3	45.8	49.3	53.3	58	63	68	73	78	83	89	95	101	108	123	141	161
23.4	25.9	28.4	30.9	33.9	36.9	39.9	43.4	46.9	50.9	56	61	66	71	76	81	87	93	99	106	121	138	158	
22.3	24.8	27.3	29.8	32.8	35.8	38.8	42.3	45.8	49.8	55	60	65	70	75	80	86	92	98	105	120	137	157	
21.1	23.6	26.1	28.6	31.6	34.6	37.6	41.1	44.6	48.6	54	59	64	69	74	79	85	91	97	104	119	136	156	
1.07	94	95	95	96	97	98	99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.09	1.10	1.11	1.13	1.15	1.17
1.07	33.6	36.0	38.5	41.0	44.0	47.0	50.0	53.5	57.0	61.0	66	71	76	81	86	91	97	103	109	116	131	147	169
1.07	32.9	35.4	37.9	40.4	43.4	46.4	49.4	52.9	56.4	60.4	65	70	75	80	85	90	96	102	108	115	130	148	168
1.07	30.3	32.8	35.3	37.8	40.8	43.8	46.8	50.3	53.8	57.8	63	68	73	78	83	88	94	100	106	113	128	145	165
1.07	19.7	22.2	24.7	27.2	30.2	33.2	36.2	39.2	43.2	47.2	52	57	62	67	72	77	83	89	95	102	117	135	155
1.07	18.2	20.6	23.1	25.6	28.6	31.6	34.6	38.1	41.6	45.6	51	56	61	66	71	76	82	88	94	101	116	133	153
1.08	27.8	30.3	32.8	35.3	38.3	41.3	44.3	47.8	51.3	55.3	60	65	70	75	80	85	91	97	103	110	125	143	163
1.08	24.7	27.2	29.7	32.2	35.2	38.2	41.2	44.7	48.2	52.2	57	62	67	72	77	82	88	94	100	107	122	140	160
1.09	28.6	31.1	33.6	36.1	39.1	42.1	45.1	48.6	52.1	56.1	61	66	71	76	81	86	92	98	104	111	126	144	164
1.10	25.5	28.0	30.5	33.0	36.0	39.0	42.0	45.5	49.0	53.0	58	63	68	73	78	83	89	95	101	108	123	140	160
1.11	27.1	29.6	32.1	34.6	37.6	40.6	43.6	47.1	50.6	54.6	60	65	70	75	80	85	91	97	103	110	125	142	162
1.11	23.8	26.3	28.8	31.3	34.3	37.3	40.3	43.8	47.3	51.3	56	61	66	71	76	81	87	93	99	106	121	139	159
1.12	35.2	37.7	40.2	42.7	45.7	48.7	51.7	55.2	58.7	62.7	68	73	78	83	88	93	99	105	111	118	133	150	170
	34.8	37.3	39.8	42.3	45.3	48.3	51.3	54.8	58.3	62.3	67	72	77	82	87	92	98	104	110	117	132	150	170
	31.4	33.9	36.4	38.9	41.9	44.9	47.9	51.4	54.9	58.9	64	69	74	79	84	89	95	101	107	114	129	146	166
	26.3	28.8	31.3	33.8	36.8	39.8	42.8	46.3	49.8	53.8	59	64	69	74	79	84	90	96	102	109	124	141	161
	22.9	25.4	27.9	30.4	33.4	36.4	39.4	42.9	46.4	50.4	55	60	65	70	75	80	86	92	98	105	120	138	158
1.12	21.7	24.2	26.7	29.2	32.2	35.2	38.2	41.7	45.2	49.2	54	59	64	69	74	79	85	91	97	104			



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance**											
	Diameter		Driven	HP/Belt		Driven	HP/Belt		Driven	HP/Belt		5VX	5VX	5VX	5VX	5VX	5VX	5VX	5VX				
	Driver	Driven	RPM	5VX	5V	RPM	5VX	5V	RPM	5VX	5V	500	560	600	630	670	710	750	800				
1.13	4.90	5.50	1556	11.2	7.0	1031	7.9	5.2	770	6.2	4.2	16.8	19.8	21.8	23.3	25.3	27.3	29.3	31.8				
	6.30	7.10	1550	17.5	13.1	1027	12.4	9.6	770	9.6	7.6	14.5	17.5	19.5	21.0	23.0	25.2	27.2	29.5				
	7.10	8.00	1551	21.1	16.4	1028	14.8	12.0	770	11.5	9.4	13.1	16.1	18.1	19.6	21.6	23.6	25.6	28.1				
	8.00	9.00	1553	24.9	20.2	1030	17.6	14.6	770	13.6	11.5	11.6	14.6	16.6	18.1	20.1	22.1	24.1	26.6				
1.14	5.20	5.90	1539	12.6	8.4	1020	8.9	6.2	763	6.9	4.9	16.3	19.3	21.3	22.8	24.8	26.8	28.8	31.3				
	5.90	6.70	1538	15.8	11.4	1019	11.1	8.4	763	8.7	6.6	15.1	18.1	20.1	21.6	23.6	25.6	27.6	30.1				
	7.50	8.50	1542	22.8	18.1	1022	16.1	13.2	763	12.5	10.4	12.4	15.4	17.4	18.9	20.9	22.9	24.9	27.4				
	13.20	15.00	1539	44.9	37.6	1020	32.6	28.8	763	25.5	22.9	...	...	...	...	...	...	...	17.8
	14.00	16.00	1530	47.6	39.6	1014	34.7	30.8	763	27.2	24.6	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →												.85	.87	.86	.89	.90	.91	.91	.92				
1.15	5.50	6.30	1524	14.0	9.7	1010	9.9	7.2	757	7.7	5.7	15.7	18.7	20.7	22.2	24.2	26.2	28.2	30.7				
	8.50	9.75	1523	27.1	22.4	1010	19.1	16.1	757	14.9	12.7	...	...	...	...	...	...	...	25.7
	9.00	10.30	1527	29.1	24.0	1012	20.6	17.6	757	16.0	13.8	...	...	...	...	...	...	...	24.8
	10.30	11.80	1526	34.3	28.6	1011	24.4	21.2	757	19.0	16.7	...	...	...	...	...	...	...	22.6
1.16	10.90	12.50	1524	38.6	30.7	1010	26.2	22.8	757	20.4	18.1	...	...	...	...	...	...	...	21.6
	8.00	9.25	1511	25.0	20.2	1002	17.6	14.7	750	13.7	11.6	11.4	14.4	16.4	17.9	19.9	21.9	23.9	26.4				
1.17	9.75	11.30	1508	32.2	26.7	999	22.8	19.7	750	17.8	15.5	...	...	...	...	...	...	...	23.5
	11.30	13.20	1496	38.2	32.0	992	27.3	24.0	744	21.3	19.0	...	...	...	...	...	...	...	20.7
1.18	16.00	18.70	1496	...	...	992	40.0	35.5	744	31.5	28.6	...	...	...	...	...	...	...	...
	9.25	10.90	1483	30.2	25.0	983	21.4	18.4	737	16.6	14.4	...	...	...	...	...	...	...	24.2
ARC-LENGTH CORRECTION FACTOR →												.85	.87	.86	.89	.90	.91	.91	.92				
1.19	4.40	5.20	1475	9.1	5.0	978	6.4	3.8	731	5.1	3.1	17.5	20.5	22.5	24.0	26.0	28.0	30.0	32.5				
	6.65	5.50	1475	10.2	6.1	977	7.3	4.6	731	5.7	3.7	17.0	20.0	22.0	23.5	25.5	27.5	29.5	32.0				
	4.30	7.50	1466	17.7	13.4	972	12.5	9.7	731	9.7	7.7	14.1	17.2	19.2	20.7	22.7	24.7	26.7	29.2				
	11.80	14.00	1473	40.1	33.7	976	28.8	25.3	731	22.4	20.1	...	...	...	...	...	...	...	19.7
1.20	6.70	8.00	1462	19.5	15.1	969	13.7	11.0	725	10.7	8.6	13.4	16.4	18.4	19.9	22.0	24.0	26.0	28.5				
	7.10	8.50	1458	21.3	16.7	967	15.0	12.2	725	11.6	9.6	12.7	15.7	17.7	19.2	21.2	23.2	25.2	27.7				
	7.50	9.00	1455	23.0	18.4	964	16.2	13.4	725	12.6	10.5	12.0	15.0	17.0	18.5	20.5	22.5	24.5	27.0				
1.21	12.50	15.00	1456	42.6	35.8	965	30.8	27.2	725	24.0	21.6	...	...	...	...	...	...	...	18.4
	4.90	5.90	1448	11.4	7.3	960	8.1	5.4	719	6.3	4.4	16.5	19.5	21.5	23.0	25.0	27.0	29.0	31.5				
	5.90	7.10	1450	16.0	11.7	961	11.3	8.5	719	8.8	6.8	14.8	17.8	19.8	21.3	23.3	25.3	27.3	29.8				
	8.50	10.30	1441	27.2	22.3	955	19.2	16.3	719	14.9	12.8	...	...	...	...	...	...	...	25.2
	9.00	10.90	1442	29.3	24.2	956	20.7	17.7	719	16.1	14.0	...	...	...	...	...	...	...	24.4
	9.75	11.80	1443	32.3	26.9	957	22.9	19.8	719	17.8	15.6	...	...	...	...	...	...	...	23.1
1.22	10.90	13.20	1443	38.8	30.9	956	26.3	23.0	719	20.5	18.2	...	...	...	...	...	...	...	21.0
	13.20	16.00	1442	45.1	37.8	956	32.7	29.0	719	25.6	23.1	...	...	...	...	...	...	...	17.0
	5.20	6.30	1440	12.8	8.7	954	9.1	6.4	713	7.1	5.1	16.0	19.0	21.0	22.5	24.5	26.5	28.5	31.0				
	5.50	6.70	1432	14.2	10.0	949	10.0	7.3	713	7.8	5.8	15.4	18.4	20.4	21.9	23.9	25.9	27.9	30.4				
	8.00	9.75	1433	25.2	20.4	950	17.7	14.9	713	13.8	11.7	...	...	...	...	...	...	...	26.0
1.24	9.25	11.30	1430	30.3	25.2	948	21.5	18.5	713	16.7	14.5	...	...	...	...	...	...	...	23.8
	10.30	12.50	1440	34.5	28.9	954	24.6	21.4	713	19.1	16.9	...	...	...	...	...	...	...	22.1
	7.50	9.25	1415	23.1	18.5	938	16.3	13.4	702	12.6	10.5	11.8	14.8	16.8	18.3	20.3	22.3	24.3	26.8				
1.25	11.30	14.00	1410	38.4	32.3	935	27.5	24.1	702	21.4	19.0	...	...	...	...	...	...	...	20.1
	15.00	18.70	1402	...	...	929	37.6	33.4	696	29.5	26.8	...	...	...	...	...	...	...	...
1.26	4.40	5.50	1394	9.2	5.2	924	6.6	3.9	690	5.1	3.2	17.2	20.2	22.2	23.7	25.7	27.7	29.7	32.2				
	9.00	11.30	1391	29.4	24.3	922	20.8	17.8	690	16.1	14.0	...	...	...	...	...	...	...	24.0
1.27	4.65	5.90	1373	10.4	6.4	910	7.4	4.9	685	5.8	3.8	16.7	19.7	21.7	23.2	25.2	27.2	29.2	31.7				
	6.30	8.00	1373	17.9	13.6	910	12.6	9.9	685	9.8	7.8	13.7	16.7	18.7	20.3	22.3	24.3	26.3	28.8				
	6.70	8.50	1375	19.7	15.3	911	13.8	11.1	685	10.7	8.7	13.0	16.0	18.0	19.5	21.5	23.6	25.6	28.1				
	7.10	9.00	1376	21.4	16.9	912	15.1	12.3	685	11.7	9.7	12.3	15.3	17.3	18.8	20.8	22.8	24.8	27.3				
	11.80	15.00	1374	40.3	33.9	911	28.9	25.5	685	22.5	20.2	...	...	...	...	...	...	...	18.9
1.28	5.90	7.50	1372	16.1	11.9	909	11.4	8.7	680	8.8	6.9	14.5	17.5	19.5	21.0	23.0	25.0	27.0	29.5				
	9.25	11.80	1369	30.5	25.3	907	21.6	18.6	680	16.8	14.6	...	...	...	...	...	...	...	23.4
	9.75	12.50	1362	32.5	27.1	903	23.0	20.0	680	17.9	15.7	...	...	...	...	...	...	...	22.5
	10.30	13.20	1363	34.6	29.1	903	24.6	21.5	680	19.2	16.9	...	...	...	...	...	...	...	21.5
	12.50	16.00	1365	42.8	36.0	905	30.9	27.3	680	24.1	21.7	...	...	...	...	...	...	...	17.5
1.29	4.90	6.30	1355	11.6	7.5	898	8.2	5.6	674	6.4	4.5	16.2	19.2	21.2	22.7	24.7	26.7	28.7	31.2				
	5.20	6.70	1352	13.0	8.9	896	9.2	6.5	674	7.1	5.2	15.6	18.6	20.6	22.1	24.1	26.1	28.1	30.6				
	8.00	10.30	1355	25.3	20.6	898	17.8	15.0	674	13.9	11.8	...	...	...	...	...	...	...	25.6
	8.50	10.90	1361	27.4	22.5	902	19.3	16.4	674	15.0	12.9	...	...	...	...	...	...	...	24.7
	10.90	14.00	1360	37.0	31.1	901	26.4	23.1	674	20.5	18.3	...	...	...	...	...	...	...	20.4

NOTES: * 5VX = Single and Polyband belts to 200' length ** Stock belt size 5VX530 not shown
5V = Single and Polyband belts over 200' long

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance**																								
	5VX 850	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2500	5V 2800	5V 3150	5V 3550			
1.13	34.3	36.8	39.3	41.8	44.8	47.8	50.8	54.3	57.8	61.8	67	72	77	82	87	92	98	104	117	132	149	169			
	32.0	34.5	37.0	39.5	42.5	45.5	48.5	52.0	55.5	59.5	64	69	74	79	84	89	95	101	114	129	147	167			
	30.6	33.1	35.6	38.1	41.1	44.1	47.1	50.6	54.1	58.1	63	68	73	78	83	88	94	100	113	128	146	166			
	29.1	31.6	34.1	36.6	39.6	42.6	45.6	49.1	52.6	56.6	62	67	72	77	82	87	93	99	112	127	144	164			
1.14	33.8	36.3	38.8	41.3	44.3	47.3	50.3	53.8	57.3	61.3	66	71	76	81	86	91	97	103	116	131	147	169			
	32.6	35.1	37.6	41.1	43.1	46.1	49.1	52.6	56.1	60.1	65	70	75	80	85	90	96	102	115	130	148	168			
	29.9	32.4	34.9	37.4	40.4	43.4	46.4	49.9	53.4	57.4	62	67	72	77	82	87	93	99	112	127	145	165			
	20.3	22.8	25.3	27.8	30.8	33.8	36.8	40.3	43.8	47.8	53	58	63	68	73	78	84	90	103	118	135	155			
1.15	18.9	21.4	23.9	26.4	29.4	32.4	35.4	38.9	42.4	46.4	51	56.	61	66	71	76	82	88	101	116	134	154			
	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.08	1.09	1.11	1.13	1.15	1.17			
1.16	33.2	35.7	38.2	40.7	43.7	46.7	49.7	53.2	56.7	60.7	66	71	76	81	86	91	97	103	116	131	146	168			
	28.2	30.7	33.2	35.7	38.7	41.7	44.7	48.2	51.7	55.7	61	66	71	76	81	86	92	98	111	126	148	163			
	27.3	29.8	32.3	34.8	37.8	40.8	43.8	47.3	50.8	54.8	60	65	70	75	80	85	91	97	110	125	142	162			
	25.1	27.6	30.1	32.6	35.6	38.6	41.6	45.1	48.6	52.6	58	63	68	73	78	83	89	95	108	123	140	160			
1.17	24.1	26.6	29.1	31.6	34.6	37.6	40.6	44.1	47.6	51.6	57	62	67	72	77	82	88	94	107	122	139	159			
1.18	28.9	31.4	33.9	36.4	39.4	42.4	45.4	46.9	52.4	56.4	61	66	71	76	81	86	92	98	111	126	144	164			
	26.0	28.5	31.0	33.5	36.5	39.5	42.5	46.0	49.5	53.5	58	63	68	73	78	83	89	95	108	123	141	161			
	23.2	25.7	28.3	30.8	33.8	36.8	39.8	43.3	46.8	50.8	56	61	66	71	76	81	89	93	106	121	138	158			
	...	...	20.2	22.7	25.7	28.7	31.7	35.2	38.7	42.7	47	53	58	63	68	73	79	85	98	113	130	150	
1.19	26.7	29.2	31.7	34.2	37.2	40.2	43.2	46.2	50.2	54.2	59	64	69	74	79	84	90	96	109	124	142	162			
	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.08	1.09	1.11	1.13	1.15	1.17			
1.20	35.0	37.5	40.0	42.5	45.5	48.5	51.5	55.0	58.5	62.5	67	72	77	82	87	92	98	104	117	132	150	170			
	34.5	37.0	39.5	42.0	45.0	48.0	51.0	54.5	58.0	62.0	67	72	77	82	87	92	98	104	117	132	150	170			
	31.7	34.2	36.7	39.2	42.2	45.2	48.2	51.7	55.2	59.2	64	69	74	79	84	89	95	101	114	129	147	167			
	22.2	24.7	27.2	29.7	32.7	35.7	38.7	42.2	45.7	49.7	54	60	65	70	75	80	86	92	105	122	137	157			
1.21	31.0	33.5	36.0	38.5	41.5	44.5	47.5	51.0	54.5	58.5	63	68	73	78	83	88	94	100	113	128	146	166			
	30.2	32.7	35.2	37.7	40.7	43.7	46.7	50.2	53.7	57.7	63	68	73	78	83	88	94	100	113	129	145	165			
	29.5	32.0	34.5	37.0	40.0	43.0	46.0	49.5	53.0	57.0	62	67	72	77	82	87	93	99	112	127	145	165			
	20.9	23.4	25.9	28.4	31.4	34.4	37.4	40.9	44.4	48.4	53	58	63	68	73	78	84	90	103	118	136	156			
1.22	34.0	36.5	39.0	41.5	44.5	47.5	50.5	54.0	57.5	61.5	66	71	76	81	86	91	97	103	117	132	149	169			
	32.3	34.8	37.3	39.8	42.8	45.8	48.8	52.3	55.8	59.8	65	70	75	80	85	90	96	102	115	130	147	167			
	27.7	30.2	32.7	35.2	38.2	41.2	44.2	47.7	51.2	55.2	60	65	70	75	80	85	91	97	110	125	143	163			
	26.9	29.4	31.9	34.4	37.4	40.4	43.4	46.9	50.4	54.4	59	64	69	74	79	84	90	96	109	124	142	162			
1.23	25.6	28.1	30.6	33.1	36.1	39.1	42.1	45.6	49.1	53.1	58	63	68	73	78	83	89	95	108	123	141	161			
1.24	23.5	26.0	28.5	31.1	34.1	37.1	40.1	43.6	47.1	51.1	56	61	66	71	76	81	87	93	106	121	139	159			
	19.5	22.0	24.5	27.0	30.0	33.0	36.0	39.5	43.0	47.0	52	57	62	67	72	77	83	89	102	117	135	155			
	33.5	36.0	38.5	41.0	44.0	47.0	50.0	53.5	57.0	61.0	66	71	76	81	86	91	97	103	116	131	149	169			
	32.9	35.4	37.9	40.4	43.4	46.4	49.4	52.9	56.4	60.4	65	70	75	80	85	90	96	102	115	130	148	168			
1.25	28.5	31.0	33.5	36.0	39.0	42.1	45.1	48.6	52.1	56.1	61	66	71	76	81	86	92	98	111	125	144	164			
	26.3	28.8	31.3	33.8	36.8	39.8	42.8	46.3	49.8	53.9	59	64	69	74	79	84	90	96	109	124	141	161			
	24.6	27.1	29.6	32.1	35.1	38.1	41.1	44.6	48.1	52.1	57	62	67	72	77	82	88	94	107	122	140	160			
	29.3	31.8	34.3	36.8	39.8	42.8	45.8	49.3	52.8	56.8	62	67	72	77	82	87	93	99	112	127	144	164			
1.26	22.6	25.1	27.6	30.1	33.1	36.1	39.1	42.6	46.1	50.1	55	60	65	70	75	80	86	92	105	120	138	158			
	...	...	21.0	23.5	26.5	29.5	32.5	36.0	39.5	43.5	49	54	59	64	69	74	80	86	99	114	131	151	
1.27	34.7	37.2	39.7	42.2	45.2	48.2	51.2	54.7	58.2	62.2	67	72	77	82	87	92	98	104	117	132	150	170			
	26.5	29.0	31.5	34.0	37.0	40.0	43.0	46.5	50.0	54.0	59	64	69	74	79	84	90	96	109	124	142	162			
	34.2	36.7	39.2	41.7	44.7	47.7	50.7	54.2	57.7	61.7	67	72	77	82	87	92	98	104	117	132	149	169			
	31.3	33.8	36.3	38.8	41.8	44.8	47.8	51.3	54.8	58.8	64	69	74	79	83	89	95	101	114	129	146	166			
1.28	30.6	32.3	34.8	37.3	40.3	43.3	46.3	49.8	53.3	57.3	62	67	72	77	82	87	93	99	112	127	145	165			
	29.8	32.3	34.8	37.3	40.3	43.3	46.3	49.8	53.3	57.3	62	67	72	77	82	87	93	99	112	127	145	165			
	21.4	23.9	26.4	28.9	31.9	34.9	37.9	41.4	44.9	48.9	54	59	64	70	74	79	85	91	104	119	136	156			
	32.0	34.5	37.0	39.5	42.5	45.5	48.5	52.0	55.5	59.5	64	69	74	79	84	89	95	101	114	129	147	167			
1.29	25.9	28.4	30.9	33.4	36.4	39.4	42.4	45.9	49.5	53.5	58	63	68	73	78	83	89	95	108	123	141	161			
	25.0	27.5	30.0	32.5	35.5	38.5	41.5	45.0	48.5	52.5	57	62	67	72	77	82	88	94	107	122	140	160			
	24.0	26.5	29.0	31.5	34.5	37.5	40.5	44.0	47.5	51.5	56	61	66	71	75	81	87	93	107	122	139	159			
	20.0	22.5	25.1	27.6	30.6	33.6	36.6	40.1	43.6	47.6	52	58	63	68	73	78	84	90	103	118	135	155			
1.29	33.7	36.2	38.7	41.2	44.2	47.2	50.2	53.7	57.2	61.2	66	71	76	81	86	91	97	103	116	131	149	169			
	32.2	35.7	38.2	40.7	43.7	46.7	49.7	53.2	56.7	60.7	66	71	76	81	86	91	97	103	116	131	148	168			
	28.1	30.6	33.1	35.6	38.6	41.6	44.6	48.1	51.6	55.6	61	66	71	76	81	86	92	98	111	126	143	163			
	27.2	29.7	32.2	34.7	37.7	40.7	43.7	47.2	50.7	54.7	60	65	70	75	80	85	91	97	110	125	142	162			
1.30	22.9	25.4	27.9	30.4	33.4	36.4	39.4	42.9	46.4	50.4	55	60	65	70	75	80	86	92	105	120	138	158			

NOTES: ** Stock belt size 5V



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX

D-V Wedge
Single Belts to 200"
POLYBAND to 200"

5V

D-V Wedge
Single Belts over 200"
POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance**																			
	Diameter	Driven	Driven	HP/Belt	5V	5V	Driven	HP/Belt	5V	Driven	HP/Belt	5VX	5VX	5VX	5VX	5VX	5VX	5VX	5VX												
1.30	5.50	7.10	1350	14.4	10.2	895	10.1	7.5	669	7.9	5.9	15.1	18.1	20.1	21.6	23.6	25.6	27.6	30.1												
	7.50	9.75	1342	23.2	18.6	890	16.3	13.5	669	12.7	10.6	11.4	14.4	16.4	17.9	19.9	21.9	23.9	26.4												
ARC-LENGTH CORRECTION FACTOR →												.84	.86	.87	.88	.89	.90	.91	.92												
1.31	7.10	9.25	1339	21.5	17.0	887	15.1	12.3	664	11.7	9.7	12.1	15.1	17.1	18.6	20.6	22.6	24.6	27.1												
	9.00	11.80	1331	29.5	24.5	882	20.9	17.9	664	16.2	14.1	...	...	13.6	15.1	17.1	19.1	21.1	23.6										
1.33	8.50	11.30	1313	27.5	22.6	870	19.4	16.5	654	15.1	13.0	...	12.4	14.4	15.9	17.9	19.9	21.9	24.4												
	11.30	15.00	1315	38.5	32.5	872	27.6	24.2	654	21.5	19.2	...	...	...	...	14.7	16.8	19.3	...								
1.34	14.00	18.70	1308	48.0	40.2	867	35.0	31.1	649	27.4	24.9	...	...	...	...	...	...	...	...				
	4.40	5.90	1297	9.4	5.4	860	6.7	4.1	644	5.2	3.3	16.9	19.9	21.9	23.4	25.4	27.4	29.4	31.9												
1.35	6.30	8.50	1292	18.0	13.7	856	12.7	10.2	644	9.9	7.9	13.3	16.3	18.3	19.9	21.8	23.9	25.9	28.4												
	6.70	9.00	1298	19.8	15.4	860	13.9	11.2	644	10.8	8.8	12.6	15.6	17.6	19.1	21.1	23.1	25.1	27.7												
1.36	4.65	6.30	1284	10.6	6.5	851	7.5	4.9	640	5.8	3.9	16.4	19.4	21.4	22.9	24.9	26.9	28.9	31.4												
	5.90	8.00	1285	16.3	12.1	852	11.4	8.8	640	8.9	6.9	14.2	17.1	19.1	20.6	22.6	24.6	26.6	29.1												
	9.25	12.50	1291	30.5	25.5	856	21.6	18.7	640	16.8	14.7	...	...	12.8	14.3	16.3	18.3	20.4	22.9										
	9.75	13.20	1289	32.6	27.3	855	23.1	20.1	640	18.0	15.8	...	...	...	13.4	15.4	17.4	19.4	21.9									
	10.30	14.00	1284	34.8	29.2	851	24.7	21.5	640	19.2	17.0	...	...	...	...	14.3	16.3	18.3	20.8								
11.80	16.00	1288	4.4	34.1	854	29.0	25.6	640	22.6	20.3	...	...	...	...	...	...	15.5	18.0							
ARC-LENGTH CORRECTION FACTOR →												.82	.84	.85	.86	.87	.88	.90	.91												
1.37	5.20	7.10	1275	13.1	9.0	845	9.2	6.6	635	7.2	5.3	15.3	18.3	20.3	21.8	23.8	25.8	27.8	30.3												
	5.50	7.50	1277	14.5	10.3	846	10.2	7.5	635	7.9	5.6	14.8	17.8	19.8	21.3	23.3	25.3	27.3	29.8												
1.38	8.00	10.90	1280	25.4	20.7	849	17.9	15.1	635	13.9	11.8	...	13.1	15.1	16.6	18.6	20.6	22.6	25.1												
	4.90	6.70	1273	11.7	7.7	844	8.3	5.7	630	6.5	4.5	15.9	18.9	20.9	22.4	24.4	26.4	28.4	30.9												
	7.10	9.75	1269	21.6	17.1	841	15.2	12.4	630	11.8	9.8	11.7	14.7	16.7	18.2	20.2	22.2	24.2	26.7												
	7.50	10.30	1270	23.3	18.7	842	16.4	13.6	630	12.7	10.7	...	13.9	16.0	17.5	19.5	21.5	23.5	26.0												
	10.90	15.00	1268	37.1	31.3	841	26.5	23.2	630	20.6	18.3	...	...	...	...	...	...	17.0	19.6						
1.39	6.70	9.25	1262	17.8	15.5	837	14.0	11.2	626	10.8	8.8	12.4	15.4	17.4	18.9	20.9	22.9	24.9	27.4												
	8.50	11.80	1256	29.5	22.7	833	19.4	16.5	626	15.1	13.0	...	...	14.0	15.5	17.5	19.5	21.5	24.0										
	9.00	12.50	1256	29.6	24.6	833	20.9	18.0	626	16.2	14.1	...	...	13.0	14.5	16.5	18.5	20.5	23.0										
1.42	8.00	11.30	1234	25.5	20.8	818	18.0	15.1	613	13.9	11.9	...	12.7	14.7	16.3	18.3	20.3	22.3	24.8												
	11.30	16.00	1233	38.6	32.6	817	27.6	24.3	613	21.5	19.2	...	...	...	...	...	...	15.9	18.4						
	13.20	18.70	1233	45.4	38.3	817	32.9	29.2	613	25.7	23.2	...	...	...	...	...	...	...	...				
1.43	15.00	21.20	1236	...	...	819	...	...	613	29.6	26.9	...	...	...	...	...	...	...	...				
	9.25	13.20	1222	30.7	25.6	810	21.7	18.7	608	16.8	14.7	...	...	...	13.7	15.7	17.8	19.8	22.3									
1.44	4.40	6.30	1214	9.5	5.5	805	6.7	4.2	604	5.3	3.4	16.6	19.6	21.6	23.1	25.1	27.1	29.1	31.6												
	6.30	9.00	1219	18.1	13.9	808	12.7	10.1	604	9.9	7.9	12.9	15.9	17.9	19.4	21.4	23.4	25.4	28.0												
	9.75	14.00	1215	32.7	27.4	805	23.2	20.1	604	18.0	15.9	...	...	...	...	14.7	16.7	18.7	21.2								
1.45	4.65	6.70	1206	10.6	6.7	800	7.5	5.0	600	5.9	4.0	16.1	19.1	21.1	22.6	24.6	26.6	28.6	31.1												
	5.20	7.50	1206	13.2	9.1	799	9.3	6.7	600	7.2	5.3	15.0	18.0	20.0	21.5	2.5	25.5	27.5	30.0												
	5.90	8.50	1208	16.4	12.2	801	11.5	8.9	600	8.9	7.0	13.6	16.6	18.6	20.1	22.2	24.2	26.2	28.7												
1.46	4.90	7.10	1200	11.8	7.8	795	8.3	5.8	596	6.5	4.6	15.5	18.5	20.5	22.0	24.1	26.1	28.1	30.6												
	5.50	8.00	1196	14.6	10.5	793	10.2	7.6	596	8.0	6.0	14.3	17.4	19.4	20.9	22.9	24.9	26.9	29.4												
	6.70	9.75	1197	19.9	15.6	793	14.0	11.3	596	10.9	8.9	12.0	15.0	17.0	18.5	20.5	22.5	24.5	27.0												
	7.10	10.30	1201	21.7	17.2	796	15.2	12.5	596	11.8	9.8	11.2	14.2	16.3	17.8	19.8	21.8	23.8	26.3												
	7.50	10.90	1199	23.4	18.8	795	16.5	13.7	596	12.8	10.8	...	13.4	15.5	17.0	19.0	21.0	23.0	25.5												
1.47	10.30	15.00	1198	34.9	29.3	794	24.8	21.7	596	19.3	17.1	...	...	...	...	...	15.0	17.5	20.0							
	9.00	13.20	1189	29.7	24.7	788	21.0	18.0	592	16.3	14.2	...	...	...	13.9	15.9	17.9	20.0	22.5									
10.90	16.00	1189	37.2	31.4	788	26.5	23.3	592	20.6	18.4	...	...	...	...	...	...	16.2	18.7							
ARC-LENGTH CORRECTION FACTOR →												.82	.84	.85	.86	.87	.88	.90	.91												
1.48	6.30	9.25	1186	18.2	13.9	590	12.8	10.1	588	9.9	8.1	12.7	15.7	17.7	19.2	21.2	23.2	25.2	27.8												
	8.00	11.80	1182	25.5	20.9	587	18.0	15.2	588	14.0	11.9	...	12.3	14.3	15.8	17.8	19.9	21.9	24.4												
	8.50	12.50	1185	27.6	22.8	589	19.5	16.6	588	15.1	13.1	...	...	13.4	14.9	16.9	18.9	20.9	23.4										
	16.00	23.60	1184	...	...	589	40.3	35.9	588	31.8	29.0	...	...	...	...	...	...	...	...				
1.50	12.50	18.70	1167	43.1	36.4	580	31.0	27.5	580	24.2	21.8	...	...	...	...	...	...	...						
1.51	7.50	11.30	1156	23.4	18.9	575	16.5	13.7	576	12.8	10.8	...	13.1	15.1	16.6	18.6	20.6	22.7	25.2												
1.52	9.25	14.00	1152	30.7	25.7	573	21.7	18.8	572	16.9	14.8	...	...	...	...	15.1	17.1	19.1	21.6								
	14.00	21.20	1153	46.2	40.0	573	35.1	31.3	572	27.5	25.0	...	...	...	...	...	...	...	...				
1.53	4.40	6.70	1140	9.5	5.6	567	6.8	4.2	569	5.3	3.4	16.2	19.2	21.3	22.8	24.8	26.8	28.8	31.3												
	5.90	9.00	1140	16.4	12.3	567	11.5	8.9	569	9.0	7.0	13.2	16.2	18.2	19.7	21.7	23.7	25.8	28.3												

NOTES: * 5VX = Single and Polyband belts to 200' length
5V = Single and Polyband belts over 200' long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance**																						
	5VX 850	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5V 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2800	5V 3150	5V 3550
1.30	32.6	35.1	37.6	40.1	43.1	46.1	49.1	52.6	56.1	60.1	65	70	75	80	85	90	96	102	108	115	130	148	168
	28.9	31.4	33.9	36.4	39.4	42.4	45.4	48.9	52.4	56.4	61	66	71	76	81	86	92	98	104	111	126	144	164
1.31	29.6	32.1	34.6	37.1	40.1	43.1	46.1	49.6	53.1	57.1	62	67	72	77	82	87	93	99	105	112	127	145	165
	26.1	28.6	31.1	33.6	36.6	39.6	42.6	46.1	49.6	53.6	59	64	69	74	79	84	90	96	102	109	124	141	161
1.33	26.9	29.4	31.9	34.4	37.4	40.4	43.4	46.9	50.4	54.4	59	64	69	74	79	84	90	96	102	109	124	142	162
	21.8	24.3	26.8	29.3	32.3	35.3	38.3	41.8	45.3	49.3	54	59	64	69	74	79	85	91	97	104	119	137	157
1.34	21.2	23.7	26.2	28.7	31.7	34.7	37.7	41.2	44.7	48.7	54	59	64	69	74	79	85	91	97	104	119	137	157
	34.4	36.9	39.4	41.9	44.9	47.9	50.9	54.4	57.9	61.9	67	73	77	82	87	92	98	104	110	117	132	149	169
1.35	30.9	33.4	35.9	38.4	41.4	44.4	47.4	50.9	54.4	58.4	63	68	73	78	83	88	94	100	106	113	128	146	166
	30.1	32.6	35.2	37.7	40.7	43.7	46.7	50.2	53.7	57.7	63	68	73	78	83	88	94	100	106	113	128	145	165
1.36	33.9	36.4	38.9	41.4	44.4	47.4	50.4	53.9	57.4	61.4	66	71	76	81	86	91	97	103	109	116	131	149	169
	31.6	34.1	36.6	39.1	42.1	45.1	48.1	51.6	55.1	59.1	64	69	74	79	84	89	95	101	107	114	129	147	167
1.37	25.4	27.9	30.4	32.9	35.9	38.9	41.9	45.4	48.9	52.9	58	63	68	73	78	83	89	95	101	108	123	140	160
	24.4	26.9	29.4	31.9	34.9	37.9	40.9	44.4	47.9	51.9	57	62	67	72	77	82	88	94	100	107	122	139	159
1.38	23.3	25.8	28.3	30.8	33.8	36.8	39.8	43.3	46.8	50.8	56	61	66	71	76	81	87	93	99	106	121	138	158
	20.6	23.1	25.6	28.1	31.1	34.1	37.1	40.6	44.1	48.1	53	58	63	68	73	78	84	90	96	103	118	136	156
1.39	32.8	35.9	38.4	40.9	43.9	46.9	49.9	53.4	56.9	60.9	66	71	76	81	86	91	97	103	109	116	131	148	168
	27.6	30.1	32.6	35.1	38.1	41.1	44.1	47.5	51.1	55.1	60	65	70	75	80	85	91	96	102	108	125	143	162
1.40	33.4	35.9	38.4	40.9	43.9	46.9	49.9	53.4	56.9	60.9	66	71	76	81	86	91	97	103	109	116	131	148	168
	29.2	31.7	34.2	36.7	39.7	42.7	45.7	49.2	52.7	56.7	62	67	72	77	82	87	93	99	105	112	127	144	164
1.41	28.5	31.0	33.5	36.0	39.0	42.0	45.0	48.5	52.0	56.0	61	66	71	76	81	86	92	98	104	111	126	143	163
	22.1	24.6	27.1	29.6	32.6	35.6	38.6	42.1	45.6	49.6	55	60	65	70	75	80	85	91	98	105	120	137	157
1.42	29.9	32.4	34.9	37.5	40.5	43.5	46.5	50.0	53.5	57.5	62	67	72	77	82	87	93	99	105	112	127	145	165
	26.5	29.0	31.5	34.0	37.0	40.0	43.0	46.5	50.0	54.0	59	64	69	74	79	84	90	96	102	109	124	141	161
1.43	25.6	28.1	30.6	33.1	36.1	39.1	42.1	45.6	49.1	53.1	58	63	68	73	78	83	89	95	101	108	123	141	161
	27.3	29.8	32.3	34.8	37.8	40.8	43.8	47.3	50.8	54.8	60	65	70	75	80	85	91	97	103	110	125	142	162
1.44	20.9	23.4	26.0	28.5	31.5	34.5	37.5	41.0	44.5	48.5	53	58	63	68	73	78	84	90	97	103	118	136	156
	18.4	20.9	23.4	25.9	28.9	31.9	34.9	38.4	41.9	45.9	50	55	60	65	70	75	81	87	92	99	114	132	154
1.45	34.8	37.3	39.8	42.3	45.3	48.3	51.3	54.8	58.3	62.3	67	72	77	82	87	92	98	104	110	117	132	149	169
	30.5	33.0	35.5	38.0	41.0	44.0	47.0	50.5	54.0	58.0	63	68	73	78	83	88	94	100	106	113	128	145	165
1.46	24.8	26.3	28.8	31.3	34.3	37.3	40.3	43.8	47.3	51.3	56	61	66	71	76	81	87	93	99	106	121	139	159
	33.6	36.1	38.6	41.1	44.1	47.1	50.1	53.6	57.1	61.1	66	71	76	81	86	91	97	103	109	116	131	147	167
1.47	32.5	35.0	37.5	40.0	43.0	46.0	49.0	52.5	56.0	60.0	65	70	75	80	85	90	96	102	108	115	130	148	168
	31.2	33.7	36.2	38.7	41.7	44.7	47.7	51.2	54.7	58.7	64	69	74	79	84	89	95	101	107	114	129	146	166
1.48	33.1	35.6	38.1	40.6	43.6	46.6	49.6	53.1	56.6	60.6	66	70	76	81	86	91	97	103	109	116	131	146	168
	31.9	34.4	36.9	39.4	42.4	45.4	48.4	51.9	55.4	59.4	64	69	74	79	84	89	95	101	107	114	129	147	167
1.49	29.5	32.1	34.6	37.1	40.1	43.1	46.1	49.6	53.1	57.1	62	67	72	77	82	87	93	99	105	112	127	145	165
	28.8	31.3	33.8	36.3	39.3	42.3	45.3	48.8	52.3	56.3	61	66	71	76	81	86	92	98	104	111	126	144	164
1.50	28.0	30.5	33.0	35.5	38.5	41.5	44.5	48.0	51.5	55.5	60	65	70	75	80	85	91	97	104	110	125	143	163
	22.5	25.0	27.5	30.0	33.0	36.1	39.1	42.6	46.1	50.1	55	60	65	70	75	80	86	92	98	105	120	138	158
1.51	25.0	27.5	30.0	32.5	35.5	38.5	41.5	45.0	48.5	52.5	57	62	67	72	77	82	88	94	101	107	122	140	160
	2.12	23.7	26.2	28.7	31.7	34.7	37.7	41.2	44.7	48.7	54	59	64	69	74	79	85	91	97	104	119	136	156
1.52	30.3	32.8	35.3	37.8	40.8	43.8	46.8	50.3	53.8	57.8	63	68	73	78	83	88	94	100	107	114	129	145	165
	26.9	29.4	31.9	34.4	37.4	40.4	43.4	46.9	50.4	54.4	59	64	69	74	79	84	90	96	102	109	124	142	162
1.53	25.9	28.8	30.4	33.4	36.5	39.5	42.5	46.0	49.5	53.5	58	63	68	73	78	83	89	95	101	108	123	141	161
	24.6	27.6	31.2	34.7	38.7	44	49	54	59	64	69	75	81	87	93	100	115	133
1.54	27.7	30.2	32.7	35.2	38.2	41.2	44.2	47.7	51.2	55.2	60	65	70	75	80	85	91	97	103	110	125	143	163
	24.1	26.6	29.1	31.7	34.7	37.7	40.7	44.2	47.7	51.7	57	62	67	72	77	82	88	94	94	107	122	139	159
1.55	33.8	36.3	38.8	41.3	44.3	47.3	50.3	53.8	57.3	61.3	66	71	76	81	86	91	97	103	103	116	131	146	169
	30.8	33.3	35.8	38.3	41.3	44.3	47.3	50.8	54.3	58.3	63	68	73	78	83	88	94	100	100	113	128	146	166

NOTES: ** Stock belt size 5V2650 & 5V3350 not shown
Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT-7-3	BELTS PAGES PT-7-28	SELECTION: CLASSICAL PAGES PT-7-84	ENGINEERING/TECHNICAL PAGES PT-7-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX

D-V Wedge
Single Belts to 200"
POLYBAND to 200"

5V

D-V Wedge
Single Belts over 200"
POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves			1750 RPM Driver				1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance**															
	Diameter		Driven	HP/Belt		Driven	HP/Belt		Driven	HP/Belt		5VX 500	5VX 560	5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800										
	Driver	Driven	RPM	5VX	5V	RPM	5VX	5V	RPM	5VX	5V																		
1.54	4.65	7.10	1138	10.7	6.7	765	7.6	5.0	565	5.9	4.0	15.7	18.7	20.7	22.2	24.2	26.2	28.2	30.8										
	4.90	7.50	1135	11.9	7.9	752	8.4	5.8	565	6.53	4.6	15.2	18.2	20.2	21.7	23.7	25.7	27.7	30.2										
	7.10	10.90	1134	21.7	17.3	752	15.3	12.5	565	11.9	10.0	10.7	13.7	15.8	17.3	19.3	21.3	23.3	25.8										
	9.75	15.00	1133	32.8	27.5	751	23.2	20.2	565	18.0	15.9	...	...	...	...	13.8	15.9	17.9	20.4						
1.55	5.20	8.00	1130	13.3	9.2	749	9.3	6.8	561	7.3	5.4	14.6	17.6	19.6	21.1	23.1	25.1	27.1	29.6										
	6.70	10.30	1132	20.0	15.7	751	14.0	11.4	561	11.0	8.9	11.5	14.5	16.6	18.1	20.1	22.1	24.1	26.6										
1.56	5.50	8.50	1125	14.6	10.5	746	10.3	7.7	558	8.0	6.1	13.9	16.9	19.0	20.4	22.5	24.5	26.5	29.0										
	6.30	9.75	1124	18.2	14.0	745	12.8	10.1	558	9.9	8.0	12.3	15.3	17.3	18.8	20.8	22.8	24.8	27.3										
	8.50	13.20	1122	27.7	22.9	744	19.5	16.7	558	15.1	13.1	...	...	12.7	14.3	16.3	18.3	20.3	22.8								
	9.00	14.00	1121	29.7	24.8	743	21.0	18.1	558	16.3	14.2	...	...	...	13.2	15.2	17.3	19.3	21.8							
1.57	10.30	16.00	1123	34.9	29.4	744	24.8	21.7	558	19.3	17.1	...	...	...	...	...	14.6	16.6	19.1					
	8.00	12.50	1115	25.6	20.9	739	18.0	15.2	554	14.0	12.0	...	...	13.7	15.2	17.3	19.3	21.3	23.8								
1.58	5.90	9.25	1109	16.4	12.3	735	11.6	8.9	551	9.0	7.1	13.0	16.0	18.0	19.5	21.5	23.5	25.5	28.1										
	7.50	11.80	1107	23.5	19.0	734	16.5	13.8	551	12.8	10.8	...	12.7	14.7	16.2	18.2	20.2	22.2	24.7										
	15.00	23.60	1110	...	...	735	37.8	33.7	551	29.7	27.0	...	...	...	...	...	...	...	...		
1.59	11.80	18.70	1101	40.6	34.3	730	29.1	25.8	547	22.7	20.4	...	...	...	...	...	...	...	...		
1.60	7.10	11.30	1094	21.8	17.4	725	15.3	12.6	544	11.9	10.0	...	13.4	15.4	16.9	18.9	20.9	23.0	25.5										
ARC-LENGTH CORRECTION FACTOR →												.82	.83	.85	.86	.87	.88	.89	.91										
1.61	13.20	21.20	1086	45.6	38.4	720	33.0	29.4	540	25.8	23.4	...	...	...	...	...	...	...	...		
1.63	4.40	7.10	1075	9.3	5.7	713	6.8	4.3	534	5.3	3.4	15.9	18.9	20.9	22.4	24.4	26.4	28.4	30.9										
	4.65	7.50	1076	10.8	6.8	713	7.6	5.1	534	5.9	4.1	15.4	18.4	20.4	21.9	23.9	25.9	27.9	30.4										
	9.25	15.00	1076	30.8	25.7	712	21.8	18.8	534	16.9	14.8	...	...	...	...	14.2	16.2	18.2	20.8						
1.64	6.70	10.90	1069	20.2	15.7	709	14.1	11.4	530	10.9	9.0	11.0	14.0	16.0	17.6	19.6	21.6	23.6	26.1										
1.65	4.90	8.00	1063	11.9	7.9	705	8.4	5.9	527	6.6	4.7	14.8	17.8	19.8	21.3	23.3	25.3	27.3	29.8										
	5.20	8.50	1063	13.3	9.3	704	9.4	6.8	527	7.3	5.4	14.1	17.2	19.2	20.7	22.7	24.7	26.7	29.2										
	5.50	9.00	1062	14.7	10.6	704	10.3	7.7	527	8.3	6.1	13.5	16.5	18.5	20.0	22.0	24.0	26.1	28.6										
	6.30	10.30	1064	18.3	14.0	705	12.8	10.2	527	10.0	8.0	11.8	14.8	16.9	18.4	20.4	22.4	24.4	26.9										
	8.50	14.00	1058	27.7	22.9	701	19.6	16.7	527	15.2	13.1	...	...	...	13.5	15.6	17.6	19.6	22.2							
1.66	9.75	16.00	1062	32.8	27.6	704	23.2	20.2	527	18.1	15.9	...	...	...	...	...	...	17.0	19.5				
	5.90	9.75	1052	16.5	12.3	697	11.6	9.0	524	9.0	7.1	12.6	15.6	17.6	19.1	21.1	23.1	25.1	27.6										
1.67	8.00	13.20	1055	25.6	21.0	700	18.1	15.3	524	14.0	12.0	...	...	...	13.1	14.6	16.6	18.7	20.7							
	11.30	18.70	1054	38.8	32.8	698	27.7	24.4	524	21.6	19.3	...	...	...	...	...	...	...	...		
	7.10	11.80	1047	21.8	17.4	694	15.3	12.6	521	11.9	9.9	...	12.9	15.0	16.5	18.5	20.5	22.5	25.0										
1.68	9.00	15.00	1045	29.8	24.8	693	21.1	18.1	521	16.3	14.3	...	...	...	...	14.3	16.4	18.4	20.9						
	7.50	12.50	1044	23.5	19.0	692	16.5	13.8	518	12.8	10.8	...	...	...	14.1	15.6	17.6	19.6	21.6							
1.69	5.50	9.25	1033	14.7	10.6	685	10.3	7.7	515	8.0	6.1	13.3	16.3	18.3	19.8	21.8	23.8	25.8	28.4										
	14.00	23.60	1035	48.3	40.6	686	35.2	31.4	515	27.6	25.0	...	...	...	...	...	...	...	...		
1.70	6.70	11.30	1028	20.1	15.8	684	14.1	11.4	512	10.9	9.0	10.6	13.7	15.7	17.2	19.2	21.2	23.3	25.8										
	12.50	21.20	1031	43.2	36.5	682	31.1	27.6	512	24.3	21.9	...	...	...	...	...	...	...	...		
1.72	4.40	7.50	1017	9.6	5.72	674	6.8	4.3	506	5.3	3.5	15.6	18.6	20.6	22.1	24.1	26.1	28.1	30.6										
	10.90	18.70	1016	37.3	31.5	674	26.6	23.4	506	20.7	18.5	...	...	...	...	...	...	...	...		
1.74	4.65	8.00	1008	10.6	6.9	668	7.6	5.1	500	6.0	4.1	15.0	18.0	20.0	21.5	23.5	25.5	27.5	30.0										
	6.30	10.90	1005	18.3	14.1	666	12.9	10.2	500	10.0	8.1	11.3	14.3	16.3	17.8	19.9	21.9	23.9	26.4										
	9.25	16.00	1007	30.8	25.8	668	21.8	18.9	500	16.9	14.8	...	...	...	...	...	15.3	17.3	19.9					
1.75	4.90	8.50	1000	12.0	8.0	663	8.4	5.9	497	6.6	4.7	14.4	17.4	19.4	20.9	22.9	24.9	26.9	29.4										
	5.20	9.00	1003	13.3	9.3	665	9.4	6.8	497	7.3	5.4	13.7	16.7	18.7	20.3	22.3	24.3	26.3	28.8										
	16.00	28.00	997	...	...	661	40.4	36.0	497	31.8	29.0	...	...	...	...	...	...	...	...		
ARC-LENGTH CORRECTION FACTOR →												.83	.85	.86	.87	.88	.89	.91											
1.76	5.90	10.30	995	16.5	12.4	660	11.6	9.0	494	9.0	7.1	...	15.1	17.1	18.6	20.7	22.7	24.7	27.2										
	8.00	14.00	995	25.7	21.0	659	18.1	15.3	494	14.0	12.0	...	...	12.4	13.9	15.9	18.0	20.0	22.5								
1.77	6.70	11.80	987	20.1	15.5	654	14.1	11.4	492	10.9	9.0	...	13.2	15.3	16.8	18.8	20.8	22.8	25.3										
	7.10	12.50	977	21.8	17.4	655	15.3	12.6	492	11.9	9.9	...	12.3	14.4	15.9	17.9	19.9	21.9	24.5										
	7.50	13.20	979	23.5	19.1	655	16.6	13.8	492	12.8	10.9	...	...	13.4	15.0	17.0	19.0	21.0	23.6								
	8.50	15.00	987	27.8	23.0	654	19.6	16.7	492	15.2	13.2	...	...	...	...	14.7	16.7	18.8	21.3						
1.79	5.20	9.25	975	13.3	9.3	647	9.4	6.8	486	7.3	5.4	...	16.5	18.5	20.0	22.1	24.1	26.1	28.6										
	5.50	9.75	979	14.7	10.7	649	10.4	7.8	486	8.1	6.1	...	15.9	17.9	19.4	21.4	23.4	25.4	27.9										
	9.00	16.00	980	29.8	24.9	649	21.1	18.2	486	16.4	14.3	...	...	...	...	...	15.5	17.5	20.1					
	13.20	23.60	976	45.6	38.5	647	33.1	29.4	486	25.8	23.4	...	...	...	...	...	...	...	...		

NOTES: * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance**																											
	5VX 850	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5V 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3150	5V 3550				
1.54	33.3	35.8	38.3	40.7	43.8	46.8	49.8	53.3	56.8	60.7	66	71	76	81	86	91	97	103	109	116	...	131	148	168	188			
	32.7	35.2	37.7	40.2	43.2	46.2	49.2	52.7	56.2	60.2	65	70	75	80	85	90	96	102	108	115	...	130	148	168	188			
	28.3	30.8	33.3	35.8	38.8	41.8	44.8	48.3	51.8	55.8	61	66	71	76	81	86	92	98	104	110	...	126	143	163	183			
	22.9	25.4	27.9	30.4	33.5	36.5	39.5	43.0	46.5	50.5	56	61	66	71	76	81	86	92	99	105	...	120	138	158	178			
1.55	32.1	34.6	37.1	39.6	42.6	45.6	48.6	52.1	55.6	59.6	65	70	75	80	85	90	96	102	108	114	...	130	147	167	187			
	29.1	31.6	34.1	36.6	39.6	42.6	45.6	49.1	52.6	56.6	62	67	72	77	82	87	93	99	105	112	...	127	144	164	184			
1.56	31.5	34.0	36.5	39.0	42.0	45.0	48.0	51.5	55.0	59.0	64	69	74	79	84	89	95	101	107	114	...	129	146	166	186			
	29.9	32.3	34.9	37.4	40.4	43.4	46.4	49.9	53.4	57.4	62	67	72	77	82	87	93	99	105	112	...	127	145	165	185			
	25.4	27.9	30.4	32.9	35.9	38.9	41.9	45.4	48.9	52.9	58	63	68	73	78	83	89	94	101	108	...	123	140	160	180			
	24.3	26.8	29.3	31.8	34.8	37.9	40.9	44.4	47.9	51.9	57	62	67	72	77	82	88	94	100	107	...	122	139	159	179			
21.7	24.2	26.7	29.2	32.2	35.2	38.2	41.7	45.3	49.3	54	59	64	69	74	79	85	91	97	104	...	119	137	157	177				
1.57	26.3	28.8	31.3	33.8	36.8	39.8	42.8	46.3	49.8	53.9	59	64	69	74	79	84	90	96	102	109	...	124	141	161	181			
1.58	30.6	33.1	35.6	38.1	41.1	44.1	47.1	50.6	54.1	58.1	63	68	73	78	83	88	94	100	106	113	...	128	146	166	186			
	27.3	29.8	32.3	34.8	37.8	40.8	43.8	47.3	50.8	54.8	60	65	70	75	80	85	91	97	103	110	...	125	142	162	182			
...	...	...	...	...	22.3	25.3	28.4	31.9	35.4	39.4	44	50	55	60	64	70	76	82	88	95	...	110	127	147	167
1.59	18.2	20.8	23.3	25.8	28.8	31.9	34.9	38.4	41.9	45.9	51	56	61	66	71	76	82	88	94	101	...	116	133	153	173			
1.60	28.0	30.5	33.0	35.5	38.5	41.5	44.5	48.0	51.5	55.5	61	66	71	76	80	85	91	97	104	110	...	125	143	163	183			
	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.15	1.17				
1.61	...	...	20.1	22.6	25.7	28.7	31.7	35.3	38.8	42.8	48	53	58	63	68	73	79	85	91	98	...	113	130	150	170	
1.63	33.4	35.9	38.4	40.9	43.9	46.9	49.9	53.5	57.0	61.0	66	71	76	81	86	91	97	103	109	116	...	131	148	168	188			
	32.9	35.4	37.9	40.4	43.4	46.4	49.4	52.9	56.4	60.6	65	70	75	80	85	90	96	102	108	115	...	130	148	168	188			
23.3	25.8	28.3	30.8	33.8	36.8	39.9	43.4	46.9	50.9	56	61	66	71	76	81	87	93	99	106	...	121	138	158	178				
1.64	28.6	31.1	33.6	36.1	39.1	42.1	45.1	48.6	52.1	56.1	61	66	71	76	81	86	92	98	104	111	...	126	144	164	184			
1.65	32.3	34.8	37.3	39.8	42.8	45.8	48.8	52.3	55.8	59.8	65	70	75	80	84	90	96	102	108	114	...	130	147	167	187			
	31.7	34.2	36.7	39.2	42.2	45.2	48.2	51.7	55.2	59.2	64	69	74	79	84	89	95	101	107	114	...	129	147	167	187			
	31.1	33.6	36.1	38.6	41.6	44.6	47.6	51.1	54.6	58.6	64	69	74	79	84	89	95	101	107	114	...	129	146	166	186			
	24.7	27.2	29.7	32.2	35.2	38.2	41.2	44.7	48.3	52.3	57	62	67	72	77	82	88	94	100	107	...	122	140	160	180			
	29.4	31.9	34.4	36.9	39.9	42.9	45.9	49.4	52.9	56.9	62	67	72	77	82	87	93	99	105	112	...	127	144	164	184			
22.1	24.6	27.1	29.6	32.6	35.6	38.6	42.2	45.7	49.7	55	60	65	70	75	80	86	92	98	105	...	120	137	157	177				
1.66	30.2	32.7	35.2	37.7	40.7	43.7	46.7	50.2	53.7	57.7	62	68	73	78	83	88	94	100	106	113	...	128	145	165	185			
	25.7	28.2	30.7	33.2	36.3	39.3	42.3	45.8	49.3	53.3	58	63	68	73	78	83	89	95	101	108	...	123	141	161	181			
18.6	21.1	23.6	26.2	29.2	32.2	35.2	38.8	42.3	46.3	51	56	61	66	71	76	82	88	94	101	...	116	134	154	174				
1.67	27.6	30.1	32.6	35.1	38.1	41.1	44.1	47.6	51.1	55.1	60	65	70	75	80	85	91	97	103	110	...	125	143	163	183			
23.5	26.0	28.5	31.0	34.0	37.0	40.0	43.5	47.1	51.1	56	61	66	71	76	81	87	93	99	106	...	121	139	159	179				
1.68	26.7	29.2	31.7	34.2	37.2	40.2	43.2	46.7	50.2	54.2	59	64	69	74	79	84	90	96	102	109	...	124	142	162	182			
1.69	30.9	33.4	35.9	38.4	41.4	44.4	47.4	50.9	54.4	58.4	63	68	73	78	83	88	94	100	106	113	...	128	146	166	186			
...	...	...	...	...	23.0	26.0	29.1	32.6	36.2	40.2	45	50	55	60	65	70	76	82	88	95	...	110	127	148	168
1.70	28.3	30.8	33.3	35.8	38.8	41.8	44.8	48.3	51.8	55.8	61	66	71	76	81	86	92	98	104	111	...	126	143	163	183			
...	...	...	20.6	23.1	26.2	29.2	32.2	35.8	39.3	43.3	48	53	58	63	68	73	79	85	91	98	...	113	131	151	171	
1.72	33.1	35.6	38.1	40.6	43.6	46.6	49.6	53.1	56.6	60.6	66	71	76	81	86	91	97	103	109	116	...	131	148	168	188			
18.9	21.4	23.9	26.5	29.5	32.5	35.5	39.1	42.6	46.6	52	57	62	67	72	77	83	89	95	102	...	117	134	154	174				
1.74	32.5	35.0	37.5	40.0	43.0	46.0	49.0	52.5	56.0	60.0	65	70	75	80	85	90	96	102	108	115	...	130	148	168	188			
28.9	31.4	33.9	36.4	39.4	42.4	45.4	48.9	52.4	56.4	61	66	71	76	81	86	92	98	105	111	...	126	144	164	184				
22.4	24.9	27.5	30.0	33.0	36.0	39.0	42.5	46.0	50.1	55	60	65	70	75	80	86	92	98	105	...	120	138	158	178				
1.75	31.9	34.4	36.9	39.4	42.4	45.4	48.4	51.9	55.4	59.4	65	69	74	79	84	89	95	101	107	114	...	129	147	167	187			
31.3	33.8	36.3	38.8	41.8	44.8	47.8	51.3	54.8	58.8	64	67	74	79	84	89	94	101	107	114	...	129	146	166	186				
...	...	...	...	...	...	...	27.3	30.9	34.9	40	45	50	55	60	65	71	77	83	90	...	105	123	143	163	
	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.15	1.17				
1.76	29.7	32.2	34.7	37.2	40.2	43.2	46.2	49.7	53.2	57.2	62	67	72	77	82	87	93	99	105	112	...	120	137	157	177			
25.1	27.6	30.1	32.6	35.6	38.6	41.6	45.1	48.6	52.6	58	63	68	73	78	83	89	95	101	108	115	...	123	140	160	180			
1.77	27.9	30.4	32.9	35.4	38.4	41.4	44.4	47.9	51.4	55.4	60	65	70	75	80	85	91	97	103	110	118	125	143	163	183			
	27.0	29.5	32.0	34.5	37.5	40.5	43.5	47.0	50.5	54.5	60	65	70	75	80	84	91	97	103	110	117	125	142	162	182			
	26.1	28.6	31.1	33.6	36.6	39.6	42.6	46.2	49.7	53.7	59	64	69	74	79	84	90	96	102	109	116	124	141	161	181			
	23.8	26.3	28.9	31.4	34.4	37.4	40.4	43.9	47.4	51.4	56	61	66	71	76	81	87	93	99	106	114	121	139	159	179			
1.79	31.1	33.6	36.1	38.6	41.6	44.6	47.6	51.1	54.6	58.6	64	69	74	79	84	89	95	101	107	114	121	129	146	166	186			
	30.5	33																										



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves					1750 RPM Driver					1160 RPM Driver					870 RPM Driver					Belt Number and Approx. Center Distance**							
	Diameter		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		5VX 560	5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800	5VX 850						
	Driver	Driven		5VX	5V		5VX	5V		5VX	5V		5VX	5V									5VX	5V				
1.80	11.80	21.20	653	40.7	34.5	643	29.2	25.8	483	22.7	20.5						
1.81	6.30	11.30	652	18.3	14.1	642	12.9	10.2	481	10.0	8.1	14.0	16.0	17.5	19.5	21.5	23.6	26.1	28.6	31.5	28.6							
1.82	10.30	18.70	636	35.0	29.6	636	24.9	21.8	478	19.4	17.2	16.7	19.3						
1.84	4.40	8.00	631	9.7	5.8	631	6.8	4.3	473	5.3	35.0	18.2	20.2	21.7	23.7	25.7	27.7	30.2	32.7	35.2	32.7							
1.85	4.65	8.50	628	10.8	6.9	628	7.7	5.1	470	6.0	4.1	17.6	19.6	21.1	23.1	25.1	27.1	29.6	32.1	34.6	32.1							
1.86	4.90	9.00	626	12.0	8.0	626	8.5	5.9	470	6.6	4.7	17.0	19.0	20.5	22.5	24.5	26.5	29.0	31.5	34.0	31.5							
1.86	5.90	10.90	623	16.5	12.4	623	11.6	9.0	468	9.0	7.1	14.6	16.6	18.1	20.2	22.2	24.2	26.7	29.2	31.7	29.2							
1.87	7.10	13.20	620	21.8	17.5	620	15.4	12.7	465	11.9	10.0	11.7	13.7	15.3	17.3	19.3	21.3	23.9	26.4	28.9	26.4							
1.87	15.00	28.00	619	...	...	619	37.9	33.7	465	29.7	27.1	...	...	...	...	...	...	...	...	...	...
1.88	6.70	12.50	617	20.1	15.8	617	14.1	11.5	463	11.0	9.0	12.6	14.6	16.2	18.2	20.2	22.2	24.8	27.3	29.8	27.3							
1.88	7.50	14.00	618	23.6	19.1	618	16.6	13.8	463	12.9	10.9	...	12.7	14.3	16.3	18.3	20.4	22.9	25.4	27.9	25.4							
1.88	11.30	21.20	616	38.9	32.9	616	27.8	24.5	463	21.6	19.4	...	...	...	...	...	...	...	...	...	...
1.89	5.20	9.75	613	13.4	9.4	613	9.4	6.9	460	7.3	5.4	16.1	18.1	19.6	21.6	23.7	25.7	28.2	30.7	33.2	30.7							
1.89	5.50	10.30	614	14.7	10.7	614	10.4	7.8	460	8.1	6.2	15.4	17.4	18.9	21.0	23.0	25.0	27.5	30.0	32.5	30.0							
1.89	6.30	11.80	615	18.3	14.1	615	12.9	10.2	460	10.0	8.1	13.5	15.5	17.1	19.1	21.1	23.1	25.6	28.2	30.8	28.2							
1.89	8.00	15.00	615	25.7	21.1	615	18.1	15.3	460	14.0	12.0	...	...	13.0	15.0	17.1	19.1	21.7	24.2	26.8	24.2					
1.89	8.50	16.00	613	27.8	23.0	613	19.6	16.8	460	15.2	13.2	...	...	...	13.8	15.8	17.9	20.4	23.0	25.6	23.0				
1.90	12.50	23.60	612	43.2	36.6	612	31.1	27.7	458	24.3	22.0	...	...	...	...	...	...	...	...	...	...
1.91	4.90	9.250	609	12.0	8.0	609	8.5	5.9	455	6.6	4.7	16.7	18.8	20.3	22.3	24.3	26.3	28.8	31.3	33.8	31.3							
1.93	5.90	11.30	601	16.6	12.4	601	11.6	9.0	451	9.0	7.1	14.2	16.3	17.8	19.8	21.8	23.8	26.4	28.9	31.4	28.9							
1.93	9.75	18.70	602	32.9	27.7	602	23.3	20.3	451	18.1	16.0	...	...	...	...	...	...	17.1	19.7	22.3	19.7	
1.95	4.40	8.50	594	9.7	5.8	594	6.9	4.3	446	5.4	3.5	17.8	19.8	21.3	23.3	25.3	27.3	29.8	32.3	34.8	32.3							
1.95	10.90	21.20	594	37.4	31.6	594	26.7	23.5	446	20.7	18.5	...	...	...	...	...	...	...	...	...	...
1.96	4.65	9.00	593	10.9	6.9	593	7.7	5.1	444	6.0	4.1	17.1	19.2	20.7	22.7	24.7	26.7	29.2	31.7	34.2	31.7							
1.97	16.00	31.50	587	...	...	587	40.5	36.1	442	31.9	29.1	...	...	...	...	...	...	...	...	...	...
1.98	6.70	13.20	584	20.1	15.8	584	14.1	11.5	439	11.0	9.0	11.9	14.0	15.5	17.6	19.6	21.6	24.2	26.7	29.3	26.7							
1.99	7.10	14.00	584	21.9	17.5	584	15.4	12.7	437	11.9	10.0	...	13.0	14.5	16.6	18.6	20.6	23.2	25.7	28.3	25.7							
ARC-LENGTH CORRECTION FACTOR →																												
				.83	.85	.86	.87	.88	.89	.91	.92																	
2.00	5.20	10.30	875	13.4	9.4	580	9.4	6.9	435	7.3	5.5	15.6	17.6	19.2	21.2	23.2	25.2	27.7	30.2	32.7	30.2							
2.00	5.50	10.90	875	14.8	10.7	580	10.4	7.8	435	8.1	6.2	14.9	16.9	18.4	20.4	22.5	24.5	27.0	29.5	32.0	29.5							
2.00	6.30	12.50	875	18.4	14.2	580	12.9	10.3	435	10.0	8.1	12.9	14.9	16.4	18.5	20.5	22.5	25.1	27.6	30.1	27.6							
2.01	4.65	9.25	870	10.9	6.9	577	7.7	5.1	433	6.0	4.1	16.9	18.9	20.5	22.5	24.5	26.5	29.0	31.5	34.0	31.5							
2.01	4.90	9.75	870	12.0	8.1	577	8.5	5.9	433	6.6	4.7	16.3	18.3	19.9	21.9	23.9	25.9	28.4	30.9	33.4	30.9							
2.01	7.50	15.00	869	23.6	19.1	576	16.6	13.9	433	12.9	10.9	...	...	13.3	15.4	17.4	19.5	22.0	24.5	27.0	24.5					
2.01	8.00	16.00	869	25.7	21.1	576	18.1	15.3	433	14.1	12.1	...	...	...	14.1	16.2	18.2	20.8	23.3	25.8	23.3				
2.01	11.80	23.60	870	40.7	34.5	578	29.2	25.9	433	22.8	20.5	...	...	...	...	...	...	...	...	...	...
2.01	14.00	28.00	872	48.4	40.7	578	35.2	31.4	433	27.6	25.1	...	...	...	...	...	...	...	...	...	...
2.02	5.90	11.80	868	16.6	12.5	575	11.6	9.0	431	9.0	7.1	13.8	15.8	17.4	19.4	21.4	23.4	25.9	28.4	30.9	28.4							
2.03	9.25	18.70	861	30.9	25.9	571	21.9	18.9	429	17.0	14.9	...	...	...	...	...	...	17.4	20.0	22.5	20.0	
2.07	4.40	9.00	846	9.7	5.8	560	6.9	4.4	420	5.4	3.5	17.3	19.3	20.9	22.9	24.9	26.9	29.4	31.9	34.4	31.9							
2.07	5.50	11.30	844	14.8	10.7	559	10.4	7.8	420	8.1	6.2	14.5	16.6	18.1	20.1	22.1	24.1	26.7	29.2	31.7	29.2							
2.07	10.30	21.20	846	35.1	29.6	561	24.9	21.9	420	19.4	17.2	...	...	...	...	...	...	...	...	...	...
2.09	9.00	18.70	837	29.9	25.0	555	21.1	18.2	416	16.4	14.3	...	...	...	...	...	...	17.6	20.2	22.7	20.2	
2.10	11.30	23.60	834	38.9	32.9	553	27.8	24.6	414	21.6	19.4	...	...	...	...	...	...	...	...	...	...
2.11	6.30	13.20	828	18.4	14.2	549	12.9	10.3	412	10.0	8.1	...	14.3	15.8	17.9	19.9	21.9	24.4	27.0	29.5	27.0							
2.11	6.70	14.00	831	20.1	15.9	551	14.2	11.5	412	11.0	9.0	...	13.2	14.8	16.9	18.9	20.9	23.5	26.0	28.5	26.0							
2.11	15.0	31.50	830	...	...	550	37.9	33.8	412	29.7	27.1	...	...	...	...	...	...	...	...	...	...
2.12	46.50	9.75	825	10.9	7.0	547	7.7	5.2	410	6.0	4.1	...	18.5	20.0	22.0	24.1	26.1	28.6	31.1	33.6	31.1							
2.12	5.20	10.90	826	13.4	9.4	548	9.4	6.9	410	7.3	5.5	...	17.1	18.6	20.7	22.7	24.7	27.2	29.7	32.2	29.7							
2.13	4.40	9.25	822	9.7	5.8	545	6.9	4.4	408	5.4	3.5	...	19.1	20.6	22.7	24.7	26.7	29.2	31.7	34.2	31.7							
2.13	4.90	10.30	824	12.0	8.1	546	8.5	6.0	408	6.6	4.7	...	17.9	19.4	21.4	23.4	25.4	27.9	30.4	32.9	30.4							
2.13	7.10	15.00	822	21.9	17.5	545	15.4	12.7	408	11.9	10.0	...	...	13.6	15.6	17.7	19.8	22.3	24.8	27.3	24.8					
2.13	13.20	28.00	822	45.7	38.6	545	33.1	29.5	408	25.9	23.4	...	...	...	...	...	...	...	...	...	...
2.14	5.90	12.50	819	16.6	12.5	543	11.7	9.1	407	9.1	7.1	...	15.2	16.7	18.8	20.8	22.8	25.3	27.9	30.4	27.9							
2.15	7.50	16.00	814	23.6	19.2	540	16.6	13.9	405	12.9	10.9	...	...	...	14.4	16.5	18.6	21.1	23.7	26.2	23.7				
2.17	5.50	11.80	808	14.8	10.7	535	10.4	7.8	401	8.1	6.2	...	16.1	17.6	19.7	21.7	23.7	26.2	28.7	31.2	28.7							
2.18	10.90	23.60	804	37.4	31.7	533	26.7	23.5	399	20.7	18.6	...	...	...	...	...	...	...	...	...	...

NOTES: * 5VX = Single and Polyband belts to 200' length ** Stock belt size 5VX530 not shown
5V = Single and Polyband belts over 200' long

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance**																							
	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3000	5V 3150	5V 3550
1.80	18.5	21.1	23.6	26.7	29.7	32.6	36.3	39.8	43.8	49	54	59	64	69	74	80	86	92	99	106	114	...	132	152
1.81	31.1	33.6	36.1	39.1	42.1	45.1	48.6	52.1	56.1	61	66	71	76	81	86	92	98	104	111	119	126	...	144	164
1.82	21.8	24.4	26.9	29.9	33.0	36.0	39.5	43.0	47.0	52	57	62	67	72	77	83	89	95	102	110	117	...	135	155
1.84	35.2	37.7	40.2	43.2	46.2	49.2	52.7	56.2	60.2	65	70	75	80	85	90	96	102	108	115	123	130	...	148	168
1.85	34.6	37.1	39.6	42.6	45.6	48.6	52.1	55.6	59.6	65	70	75	80	85	90	96	102	108	115	122	130	...	147	167
1.86	34.0	36.5	39.0	42.0	45.0	48.0	51.5	55.0	59.0	64	69	74	79	84	89	95	101	107	114	122	129	...	147	167
1.86	31.7	34.2	36.7	39.7	42.7	45.7	49.2	52.7	56.8	62	67	72	77	82	87	93	99	105	112	119	127	...	144	164
1.87	28.9	31.4	33.9	36.9	39.9	42.9	46.5	50.0	54.0	59	64	69	74	79	84	90	96	102	109	117	124	...	142	162
1.87	...	...	...	...	...	24.4	28.0	31.6	35.6	41	46	51	56	61	66	72	78	84	91	99	106	...	124	144
1.88	29.8	32.3	34.8	37.8	40.8	43.8	47.3	50.8	54.9	60	65	70	75	80	85	91	97	103	110	117	125	...	142	162
1.88	27.9	30.4	33.0	36.0	39.0	42.0	45.5	49.0	53.0	58	63	68	73	78	83	89	95	101	108	116	123	...	141	161
1.88	18.8	21.4	24.0	27.0	30.1	33.1	36.6	40.2	44.2	49	54	59	64	69	74	80	86	92	99	107	114	...	132	152
1.89	33.2	35.7	38.2	41.2	44.2	47.2	50.7	54.2	58.2	63	68	73	78	83	88	94	100	106	113	121	128	...	146	166
1.89	32.5	35.0	37.5	40.5	43.5	46.5	50.0	53.5	57.5	63	68	73	78	83	88	94	100	106	113	120	128	...	145	165
1.89	30.7	33.2	35.7	38.7	41.7	44.7	48.2	51.7	55.7	61	66	71	76	81	86	92	98	104	111	118	126	...	143	163
1.89	26.7	29.2	31.7	34.8	37.8	40.8	44.3	47.8	51.8	57	62	67	72	77	82	88	94	100	107	114	122	...	139	159
1.89	25.5	28.0	30.5	33.5	36.6	39.6	43.1	46.6	50.6	56	61	66	71	76	81	87	93	99	105	113	121	...	138	158
1.90	...	...	20.9	24.0	27.1	30.1	33.7	37.2	41.3	46	51	56	61	66	71	77	83	89	97	104	112	...	129	149
1.91	33.8	36.3	38.8	41.8	44.8	47.8	51.3	54.8	58.8	64	69	74	79	84	89	95	101	107	114	121	129	...	146	166
1.93	31.4	33.9	36.4	39.4	42.4	45.4	48.9	52.4	56.4	61	66	71	76	81	86	92	98	104	111	119	126	...	144	164
1.93	22.2	24.8	27.3	30.3	33.4	36.4	39.9	43.4	47.4	52	57	62	67	73	78	84	90	96	103	110	118	...	135	155
1.95	34.8	37.3	39.8	42.8	45.8	48.8	52.3	55.8	59.8	65	70	75	80	85	90	96	102	108	114	122	130	...	147	167
1.95	19.1	21.7	24.2	27.3	30.4	33.4	36.9	40.5	44.5	50	55	60	65	70	74	81	87	93	100	107	115	...	132	152
1.96	34.2	36.7	39.2	42.2	45.2	48.2	51.7	55.2	59.2	64	69	74	79	84	89	95	101	107	114	122	129	...	147	167
1.97	...	...	...	...	...	...	27.6	31.7	37	42	47	52	57	62	68	74	80	87	95	102	...	120	140	
1.96	29.2	31.7	34.2	37.2	40.2	43.2	46.8	50.3	54.3	59	64	69	74	79	84	90	96	102	109	117	124	...	142	162
1.99	28.2	30.7	33.2	36.3	39.3	42.3	45.8	49.3	53.3	58	63	68	73	78	83	89	95	101	108	116	123	...	141	161
2.00	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	...	1.14	1.16
2.00	32.7	35.2	37.7	40.8	43.8	46.8	50.3	53.8	57.8	63	68	73	78	83	88	94	100	106	113	120	128	...	145	165
2.00	32.0	34.5	37.0	40.0	43.0	46.0	49.5	53.1	57.1	62	67	72	77	82	87	93	99	105	112	120	127	...	147	165
2.00	30.1	32.6	35.1	38.1	41.1	44.1	47.6	51.1	55.2	60	65	70	75	80	85	91	97	103	110	118	125	...	143	163
2.01	34.0	36.5	39.0	42.0	45.0	48.0	51.5	55.0	59.0	64	69	74	79	84	89	95	101	107	114	122	129	...	147	167
2.01	33.4	35.9	38.4	41.4	44.4	47.4	50.9	54.4	58.4	63	68	73	78	83	88	94	100	106	113	121	128	...	146	166
2.01	27.1	29.6	32.1	35.1	38.1	41.2	44.7	48.2	52.2	57	62	67	72	77	82	88	94	100	107	115	122	...	140	160
2.01	25.9	28.4	30.9	33.9	36.9	40.0	43.5	47.0	51.0	56	61	66	71	76	81	87	93	99	106	114	121	...	139	159
2.01	...	...	21.4	24.5	27.6	30.6	34.2	37.7	41.8	47	52	57	62	67	72	78	84	90	97	105	112	...	130	150
2.01	...	...	...	...	...	25.0	28.7	32.3	36.3	41	47	51	57	62	67	73	79	85	92	99	107	...	124	144
2.02	31.0	33.5	36.0	39.0	42.0	45.0	48.5	52.0	56.0	61	66	71	76	81	86	92	98	104	111	119	126	...	144	164
2.03	22.6	25.1	27.6	30.7	33.7	36.7	40.3	43.8	47.8	53	58	63	68	73	78	84	90	96	103	110	118	...	135	155
2.07	34.4	36.9	39.4	42.4	45.4	48.4	51.9	55.4	59.4	64	69	74	79	84	89	95	101	107	114	122	129	...	147	167
2.07	31.7	34.2	36.7	39.7	42.7	45.7	49.2	52.7	56.7	62	67	72	77	82	87	93	99	105	112	119	127	...	144	164
2.07	19.5	22.1	24.7	27.7	30.8	33.8	37.4	40.9	44.9	50	55	60	65	70	75	81	87	93	100	108	115	...	133	153
2.09	22.7	25.3	27.8	30.9	33.9	36.9	40.5	44.0	48.0	53	58	63	68	73	78	84	90	96	103	111	118	...	136	156
2.10	...	...	21.7	24.8	27.9	31.0	34.5	38.1	42.1	47	52	57	62	67	72	78	84	90	97	105	112	...	130	150
2.11	29.5	32.0	34.5	37.5	40.5	43.5	47.1	50.6	54.6	60	65	70	75	80	85	91	97	103	110	117	125	135	142	162
2.11	28.5	31.0	33.6	36.6	39.6	42.6	46.1	49.6	53.6	59	64	69	74	79	84	90	96	102	109	116	124	...	141	161
2.11	...	...	...	...	...	...	28.3	32.4	36.4	38	43	48	53	58	63	69	75	81	88	96	103	...	121	141
2.12	33.6	36.1	38.6	41.6	44.6	47.6	51.1	54.6	58.6	64	69	74	79	84	89	95	101	107	114	121	129	137	146	166
2.12	32.2	34.7	37.2	40.3	43.3	46.3	49.8	53.3	57.3	62	67	72	77	82	87	93	99	105	112	120	127	139	145	165
2.13	34.2	36.7	39.2	42.2	45.2	48.2	51.7	55.2	59.2	64	69	74	79	84	89	95	101	107	114	122	129	139	147	167
2.13	33.0	35.5	38.0	41.0	44.0	47.0	50.5	54.0	58.0	63	68	73	78	83	88	94	100	106	113	121	128	138	146	166
2.13	27.4	29.9	32.4	35.4	38.4	41.4	45.0	48.5	52.5	58	63	68	73	78	83	89	95	101	108	115	123	133	140	160
2.13	...	...	...	...	...	25.6	29.2	32.8	36.9	42	47	52	57	62	67	73	79	85	92	100	107	117	125	145
2.14	30.4	32.9	35.4	38.4	41.4	44.4	47.9	51.4	55.5	60	65	70	75	80	85	91	98	104	111	118	126	136	143	163
2.15	26.2	28.7	31.3	34.3	37.3	40.3	43.8	47.4	51.4	56	61	66	71	76	81	87	93	99	106	114	121	131	139	159
2.17	31.3	33.8	36.3	39.3	42.3	45.3	48.8	52.3	56.3	61	66	71	76	81	86	92	98	104	111	119	126	136	144	164
2.18	...	...	22.0	25.1	28.2	31.3	34.8	38.4	42.4	47	53	58	63	68	73	79	85	91	98	105	113	123	130	150

NOTES: ** Stock belt size 5V2650 & 5V3350 not shown
Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver				1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance**					
	Diameter		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800	5VX 850
	Driver	Driven		5VX	5VX		5VX	5VX		5VX	5VX							
2.19	9.75	21.20	800	32.9	27.7	531	23.3	20.4	397	18.1	16.0	...	...	...	...	...	17.3	
2.20	5.20	11.30	797	13.4	9.4	528	9.5	6.9	395	7.4	5.5	16.8	18.3	20.3	22.3	24.4	29.4	
2.21	8.50	18.70	790	27.8	23.1	524	19.6	16.8	394	15.2	13.2	...	...	...	...	15.3	20.5	
2.24	4.40	9.75	780	9.7	5.8	517	6.9	4.4	388	5.4	3.5	18.7	20.2	22.2	24.2	26.3	28.8	31.3
	4.65	10.30	781	10.9	7.0	517	7.7	5.2	388	6.0	4.1	18.0	19.6	21.6	23.6	25.6	28.1	30.6
	6.30	14.00	781	18.4	14.2	517	12.9	10.3	388	10.0	8.1	13.5	15.1	17.1	19.2	21.2	23.8	26.3
2.25	4.90	10.90	778	12.1	8.1	516	8.5	6.0	387	6.6	4.7	17.3	18.9	20.9	22.9	24.9	27.4	29.9
	12.50	28.00	778	43.3	36.6	516	31.2	27.7	387	24.3	22.0	...	...	...	...	...	...	...
2.26	5.90	13.20	775	16.6	12.5	516	11.7	9.1	385	9.1	7.2	14.5	16.1	18.1	20.2	22.2	24.7	27.3
	6.70	15.00	775	20.2	15.9	514	14.2	11.5	385	11.0	9.1	12.3	13.8	15.9	18.0	20.0	22.6	25.1
	14.00	31.50	775	48.4	40.7	514	35.3	31.5	385	27.6	25.1	...	...	...	...	...	...	...
2.27	7.10	16.00	770	21.9	17.55	511	15.4	12.7	383	11.9	10.0	...	...	14.7	16.8	18.8	21.4	23.9
2.29	5.20	11.80	763	13.4	9.4	506	9.5	6.9	380	7.4	5.5	16.3	17.8	19.9	21.9	23.9	26.4	29.0
2.30	5.50	12.50	762	14.8	10.8	505	10.4	7.8	378	8.1	6.2	15.5	17.0	19.0	21.1	23.1	25.6	28.1
	10.30	23.60	760	35.1	29.7	503	25.0	21.9	378	19.4	17.2	...	...	...	...	...	...	...
2.31	9.25	21.20	729	30.9	25.9	503	21.9	19.0	377	17.0	14.9	...	...	...	...	...	...	17.6
2.33	4.90	11.30	750	12.1	8.1	497	8.5	6.0	373	6.6	4.8	17.0	18.5	20.5	22.5	24.6	27.1	29.6
2.35	8.00	18.70	713	25.8	21.2	493	18.1	15.4	370	14.1	12.1	...	...	...	...	15.6	18.2	20.8
	16.00	37.50	744	...	...	493	40.5	36.1	370	31.9	29.1	...	...	...	...	...	...	...
2.37	4.40	10.30	738	9.7	5.9	489	6.9	4.4	367	5.4	3.5	18.2	19.7	21.8	23.8	25.8	28.3	30.8
	4.65	10.90	737	10.9	7.0	489	7.7	5.2	367	6.0	4.1	17.5	19.0	21.1	23.1	25.1	27.6	30.1
	9.00	21.20	738	29.9	25.0	489	21.1	18.3	367	16.4	14.4	...	...	...	...	...	...	17.7
2.38	11.80	28.00	734	40.8	34.6	486	29.2	25.9	366	22.8	20.5	...	...	...	...	...	...	...
	5.90	14.00	730	16.6	12.5	484	11.7	9.1	363	9.1	7.2	13.8	15.3	17.4	19.4	21.5	24.0	26.6
2.40	6.30	15.00	728	18.4	14.2	483	12.9	10.3	363	10.0	8.1	12.5	14.1	16.2	18.3	20.3	22.9	25.4
	13.20	31.50	730	45.7	38.6	484	33.1	29.5	363	25.9	23.5	...	...	...	...	...	...	...
2.41	6.70	16.00	726	20.2	15.9	482	14.2	11.5	361	11.0	9.1	.....	12.8	15.0	17.0	19.1	21.7	24.2
2.43	5.20	12.50	720	13.5	9.5	477	9.5	6.9	358	7.4	5.5	15.7	17.2	19.3	21.3	23.3	25.8	28.4
	5.50	13.20	721	14.8	10.8	478	10.4	7.9	358	8.1	6.2	14.8	16.4	18.4	20.5	22.5	25.0	27.6
2.44	4.90	11.80	718	12.1	8.1	476	8.5	6.0	357	6.6	4.78	16.5	18.1	20.1	22.1	24.1	26.7	29.2
	9.75	23.60	719	32.9	27.7	476	23.4	20.4	357	18.1	16.1	...	...	...	...	...	...	...
2.48	4.65	11.30	711	10.9	7.0	471	7.71	5.2	351	6.0	4.2	17.2	18.7	20.7	22.7	24.7	27.3	29.8
2.49	11.30	28.00	703	38.9	33.0	466	27.8	24.6	349	21.7	19.4	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR -->												.84	.84	.86	.87	.88	.89	.91
2.51	4.40	10.90	697	9.7	5.9	462	6.9	4.4	347	5.4	3.5	17.7	19.2	21.2	23.3	25.3	27.8	30.3
	7.50	18.70	696	23.6	19.2	462	16.6	13.9	347	12.9	10.9	...	...	...	...	15.9	18.6	21.2
	8.50	21.20	697	27.9	23.1	462	19.7	16.8	347	15.2	13.2	...	...	...	...	...	...	18.1
	15.00	37.50	697	...	...	462	37.9	33.9	347	29.8	27.1	...	...	...	...	...	...	...
2.53	12.50	31.50	691	43.3	36.7	458	31.2	27.7	344	24.3	22.0	...	...	...	...	...	...	...
2.56	6.30	16.00	682	18.4	14.2	452	12.9	10.3	340	10.0	8.1	...	13.1	15.2	17.3	19.4	22.0	24.5
2.57	4.65	11.80	681	10.9	7.0	451	7.7	5.2	339	6.0	4.2	16.7	18.2	20.3	22.3	24.3	26.8	29.4
	5.20	13.20	681	13.5	9.5	452	9.5	6.9	339	7.4	5.5	15.0	16.6	18.6	20.7	22.7	25.2	27.8
	5.50	14.00	680	14.8	10.8	451	10.4	7.9	339	8.1	6.2	14.0	15.6	17.7	19.7	21.8	24.3	26.8
	5.90	15.00	681	16.6	12.5	452	11.7	9.1	339	9.1	7.2	12.8	14.4	16.5	18.5	20.6	23.1	25.7
	9.25	23.60	681	30.9	25.9	452	21.9	19.0	339	17.0	14.9	...	...	...	...	...	...	...
2.58	4.90	12.50	677	12.1	8.1	449	8.5	6.0	337	6.6	4.8	...	17.4	19.5	21.5	23.5	26.1	28.6
	10.90	28.00	677	37.4	31.7	449	26.7	23.5	337	20.8	18.6	...	...	...	...	...	...	...
2.60	4.40	11.30	672	9.8	5.9	445	6.9	4.4	335	5.4	3.5	...	18.9	20.9	22.9	24.9	27.9	30.0
2.64	9.00	23.60	663	29.9	25.0	439	21.2	18.3	330	16.4	14.4	...	...	...	...	...	...	...
2.66	7.10	18.70	659	21.9	17.6	437	15.4	12.7	327	12.0	10.0	...	...	...	...	16.2	15.8	26.5
2.67	8.00	21.20	655	25.8	21.2	434	18.2	15.4	326	14.1	12.1	...	...	...	...	...	...	18.4
2.68	11.80	31.50	652	40.8	34.6	432	29.2	25.9	325	22.8	20.5	...	...	...	...	...	...	...
2.69	14.00	37.50	650	48.4	40.7	431	35.3	31.5	323	27.6	25.1	...	...	...	...	...	...	...
2.72	4.40	11.80	643	9.8	5.9	426	6.9	4.4	320	5.4	3.5	...	18.4	20.4	22.5	24.5	27.0	29.5
2.73	4.65	12.50	642	10.9	7.0	426	7.7	5.2	319	6.0	4.2	...	17.6	19.6	21.7	23.7	26.2	28.8
	4.90	13.20	641	12.1	8.1	425	8.5	6.0	319	6.6	4.8	...	16.8	18.8	20.9	22.9	25.5	28.0
	5.20	14.00	642	13.5	9.5	426	9.5	6.9	319	7.4	5.5	...	15.8	17.9	19.9	22.0	24.5	27.1

NOTES: * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																								
	5VX 900	5VX 950	5VX 1000	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5V 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3000	5V 3150	5V 3350	5V 3550
2.19	19.9	22.5	25.0	28.1	31.2	34.2	37.8	41.3	45.3	50	55	60	65	70	75	82	88	94	101	108	116	126	133	...	153
2.20	31.9	34.4	36.9	39.9	42.9	45.9	49.4	53.0	57.0	62	67	72	77	82	87	93	99	105	112	120	127	137	145	...	165
2.21	23.1	25.6	28.2	31.2	34.3	37.3	40.8	44.3	48.4	53	58	63	68	73	78	84	90	96	103	111	118	129	136	...	156
2.24	33.8	36.3	38.8	41.8	44.8	47.8	51.3	54.8	58.8	64	69	74	79	84	89	95	101	107	114	121	129	139	146	...	166
2.24	33.1	35.6	38.2	41.2	44.2	47.2	50.7	54.2	58.2	63	68	73	78	83	88	94	100	106	113	121	128	138	146	...	166
2.24	28.8	31.3	33.8	36.9	39.9	42.9	46.4	49.9	53.9	59	64	69	74	79	84	90	96	102	109	117	124	134	142	...	162
2.25	32.5	35.0	37.5	40.5	43.5	46.5	50.0	53.5	57.5	62	68	73	78	83	88	94	100	106	113	120	128	138	145	...	165
2.25	...	...	...	...	22.9	26.0	29.7	33.3	37.4	43	48	53	58	63	68	74	80	86	93	100	108	118	125	...	145
2.26	29.8	32.3	34.8	37.8	40.8	43.8	47.4	50.9	54.9	60	65	70	75	80	85	91	97	103	110	117	125	135	142	...	162
2.26	27.7	30.2	32.7	35.7	38.7	41.8	45.3	48.8	52.8	58	63	68	73	78	83	89	95	101	108	115	123	133	140	...	160
2.26	...	...	...	...	...	25.2	28.9	33.1	38	43	48	54	59	64	70	76	82	89	96	104	114	124	131	...	141
2.27	26.5	29.0	31.5	34.6	37.6	40.6	44.1	47.6	51.7	57	62	67	72	77	82	88	94	100	107	114	122	132	139	...	159
2.29	31.5	34.0	36.5	39.5	42.5	45.5	49.0	52.6	56.6	62	67	72	77	82	87	93	99	105	112	119	127	137	144	...	164
2.30	30.7	33.2	35.7	38.7	41.7	44.7	48.2	51.7	55.8	61	66	71	76	81	86	92	98	104	111	118	126	136	143	...	163
2.30	...	19.8	22.4	25.5	28.6	31.7	35.2	38.8	42.9	48	53	58	63	68	73	79	85	91	98	106	113	123	131	...	151
2.31	20.2	22.8	25.4	28.5	31.5	34.6	38.1	41.7	45.7	51	56	61	66	71	76	82	88	94	101	108	116	126	133	...	153
2.33	32.1	34.6	37.1	40.1	43.2	46.2	49.7	53.2	57.2	62	67	72	77	82	87	93	99	105	112	120	127	137	145	...	165
2.35	23.4	26.0	28.5	31.6	34.6	37.6	41.2	44.7	48.7	54	59	64	69	74	79	85	91	97	104	111	119	129	136	...	156
2.35	...	...	...	...	...	...	...	...	31	36	42	47	52	57	63	69	75	82	120	97	107	115	...	135	
2.37	33.3	35.8	38.3	41.3	44.4	47.4	50.9	54.4	58.4	63	68	73	78	83	88	94	100	106	113	121	128	138	146	...	166
2.37	32.6	35.2	37.7	41.7	43.7	46.7	50.2	53.7	57.7	63	68	73	78	83	88	94	100	106	113	120	128	138	146	...	165
2.37	20.4	23.0	25.6	28.6	31.7	34.7	38.3	41.8	45.9	51	56	61	66	71	76	82	88	94	101	109	116	125	134	...	154
2.38	...	...	...	...	23.3	26.5	30.2	33.8	37.9	43	48	53	58	63	68	74	80	86	93	101	108	118	126	...	146
2.40	29.1	31.6	34.1	37.1	40.2	43.2	46.7	50.2	54.2	59	64	69	74	79	84	90	96	102	109	117	124	134	142	...	162
2.40	27.9	30.5	33.0	36.0	39.0	42.1	45.6	49.1	53.1	58	63	68	73	78	83	89	95	101	108	116	123	133	141	...	161
2.40	...	...	...	...	...	25.8	29.5	33.6	39	44	49	54	59	64	70	76	82	89	97	105	115	122	...	142	
2.41	26.8	29.3	31.8	34.9	37.9	40.9	44.4	48.0	52.0	57	62	67	72	77	82	88	94	100	107	115	122	132	140	...	160
2.43	30.9	33.4	35.9	38.9	41.9	45.0	48.5	52.0	56.0	61	66	71	76	81	86	92	98	104	111	119	126	136	144	...	164
2.43	30.1	32.6	35.1	38.1	41.1	44.2	47.7	51.2	55.2	60	65	70	75	80	85	91	97	103	110	118	125	135	143	...	163
2.44	31.7	34.2	36.7	39.7	42.7	45.8	49.3	52.8	56.8	62	67	72	77	82	87	93	99	105	112	119	127	137	144	...	164
2.44	...	20.1	22.8	25.9	29.0	32.1	35.6	39.2	43.3	48	53	58	63	68	73	79	84	90	96	102	109	117	125	...	151
2.46	32.3	34.8	37.3	40.3	43.3	46.4	49.9	53.4	57.4	62	67	72	77	82	87	93	99	105	112	120	127	137	145	...	165
2.49	...	...	...	...	23.7	26.8	30.5	34.1	38.2	43	48	53	59	64	69	75	81	87	94	101	109	119	126	...	146
	.92	.93	.94	.95	.96	.97	.98	.99	1.00	1.01	1.03	1.04	1.05	1.06	1.07	1.08	1.08	1.09	1.10	1.10	1.12	1.13	1.14	1.15	1.16
2.51	32.8	35.3	37.8	40.9	43.9	46.9	50.4	53.9	57.9	63	68	73	78	83	88	94	100	106	113	120	128	138	145	...	165
2.51	23.8	26.3	28.9	31.9	35.0	38.0	41.5	45.1	49.1	54	59	64	69	74	79	85	91	97	104	112	119	129	137	...	157
2.51	20.7	23.3	25.9	29.0	32.0	35.1	38.7	42.2	46.2	51	56	61	66	71	76	82	88	94	101	109	117	127	134	...	154
2.51	...	...	...	...	...	...	...	...	32	37	42	47	53	58	64	70	76	83	91	98	108	116	...	136	
2.53	...	...	...	...	...	26.2	29.9	34.1	39	44	49	55	60	65	71	77	83	90	97	105	115	123	...	143	
2.56	27.1	29.6	32.1	35.2	38.2	41.2	44.7	48.3	52.3	57	62	67	72	77	82	88	94	100	107	115	122	132	140	...	160
2.57	31.9	34.4	36.9	39.9	42.9	45.9	49.5	53.0	57.0	62	67	72	77	82	87	93	99	105	112	120	127	137	145	...	165
2.57	30.3	32.8	35.3	38.3	41.4	44.4	47.9	51.4	55.4	60	65	70	75	80	85	91	97	103	110	118	125	135	143	...	163
2.57	29.4	31.9	34.4	37.4	40.5	43.5	47.0	50.5	54.5	59	64	70	75	80	85	91	97	103	110	117	125	135	142	...	162
2.57	28.2	30.8	33.3	36.3	39.3	42.3	45.9	49.4	53.4	58	63	68	73	78	83	89	95	101	108	116	124	134	141	...	161
2.57	...	20.4	23.1	26.2	29.3	32.4	36.0	39.5	43.6	49	54	58	64	67	74	80	86	92	99	106	114	124	132	...	152
2.58	31.1	33.6	36.1	39.2	42.2	45.2	48.7	52.2	56.2	61	66	71	76	81	86	92	98	104	111	119	126	136	144	...	164
2.58	...	...	...	...	23.9	27.1	30.8	34.4	38.5	44	49	54	57	64	69	75	81	87	94	102	109	119	127	...	147
2.60	32.5	35.0	37.5	40.5	43.5	46.5	50.1	53.6	57.6	63	68	73	78	83	88	94	100	106	113	120	128	138	145	...	165
2.64	...	20.6	23.3	26.4	29.5	32.6	36.2	39.7	43.8	49	54	59	64	69	74	80	86	92	99	107	114	124	132	...	152
2.66	24.0	26.6	29.2	32.2	35.3	38.3	41.8	45.4	49.4	54	59	64	69	74	79	86	92	98	105	112	120	130	137	...	157
2.67	21.0	23.6	26.2	29.3	32.4	35.5	39.0	42.6	46.6	52	57	62	67	72	77	83	89	95	102	109	117	127	134	...	154
2.68	...	...	...	...	...	26.7	30.4	34.6	40	45	50	55	60	65	71	77	83	90	98	106	116	123	133	...	143
2.69	...	...	...	...	...	...	...	...	32	38	43	48	53	58	65	71	77	84	91	99	109	116	...	136	
2.72	32.1	34.6	37.1	40.1	43.1	46.1	49.6	53.1	57.2	62	67	72	77	82	87	93	99	105	112	120	127	137	145	...	165
2.73	31.3	33.8	36.3	39.3	42.4	45.4	48.9	52.4	56.4	61	66	71	76	81	86	92	98	104	111	119	126	136	144	...	164
2.73	30.5	33.0	35.5	38.6	41.6	44.6	48.1	51.6	55.6	61	66	71	76	81	86	92	98	104	111	118	126	136	143	...	163
2.73	29.6	32.1	34.6	37.7	40.7	43.7	47.2	50.7	54.7	60	65	70	75	80	85	91	97	103	110	117					



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX

D-V Wedge Single Belts to 200" POLYBAND to 200"

5V

D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance**						
	Diameter		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800	5VX 850
	Driver	Driven		5VX	5V		5VX	5V		5VX	5V							
2.74	5.90	16.00	638	16.6	12.5	423	11.7	9.1	318	9.1	7.2	...	13.3	15.5	17.6	19.7	22.2	24.8
	10.30	28.00	640	35.1	29.7	424	25.0	21.9	318	19.4	17.3	...	...	...	...	...	...	...
2.76	5.50	15.00	634	14.8	10.8	420	10.4	7.9	315	8.1	6.2	...	14.6	16.7	18.8	20.9	23.4	26.0
	8.50	23.60	626	27.9	23.1	415	19.7	16.8	311	15.3	13.2	...	...	...	...	...	...	...
2.80	11.30	31.50	624	38.9	33.0	414	27.8	24.6	311	21.7	19.4	...	...	...	...	...	...	...
	6.70	18.70	621	20.2	15.9	412	14.2	11.5	309	11.0	9.1	...	...	...	...	...	...	...
2.82	7.50	21.20	614	23.7	19.2	407	16.6	13.9	305	12.9	10.9	...	...	...	...	16.5	19.1	21.7
	13.20	37.50	613	45.7	38.7	406	33.1	29.5	305	25.9	23.5	...	...	...	...	...	...	...
2.85	4.40	12.50	607	9.8	5.9	402	6.9	4.4	302	5.4	3.5	...	17.8	19.8	21.9	23.9	26.4	28.9
	4.65	13.20	608	11.0	7.0	403	7.7	5.2	302	6.0	4.2	...	16.9	19.0	21.1	23.1	25.6	28.3
2.89	9.75	28.00	605	33.0	27.8	401	23.4	20.4	301	18.1	16.0	...	...	...	...	...	...	...
	4.90	14.00	604	12.1	8.2	401	8.5	6.0	300	6.6	4.8	...	16.0	18.1	20.1	22.2	24.7	27.3
2.91	10.90	31.50	602	37.4	31.7	399	26.7	23.5	299	20.7	18.6	...	...	...	...	...	...	...
	5.20	15.00	599	13.5	9.5	397	9.5	6.9	298	7.4	5.5	...	14.8	16.9	19.0	21.1	23.6	26.2
2.92	5.50	16.00	594	14.8	10.8	394	10.4	7.9	296	8.1	6.2	...	13.6	15.7	17.9	19.9	22.5	25.1
	8.00	23.60	588	25.8	21.2	390	18.2	15.4	293	14.1	12.1	...	...	...	...	...	...	...
3.00	6.30	18.70	583	18.4	14.3	387	12.9	10.3	290	10.0	8.1	...	...	...	14.6	16.7	19.4	22.0
	7.10	21.20	581	21.9	17.6	385	15.4	12.7	289	12.0	10.0	...	...	...	...	...	...	...
3.01	12.50	37.50	580	43.3	36.7	385	31.2	27.7	288	24.3	22.0	...	...	...	...	...	...	...
	4.40	13.20	574	9.8	5.9	381	6.9	4.4	285	5.4	3.6	...	17.1	19.2	21.2	23.3	25.8	28.3
3.05	4.65	14.00	573	10.9	7.0	380	7.7	5.2	285	6.0	4.2	...	16.2	18.3	20.3	22.4	24.9	27.5
	9.25	28.00	574	31.0	26.0	380	21.9	19.0	285	17.0	14.9	...	...	...	...	...	...	...
3.08	10.30	31.50	568	35.1	29.7	377	25.0	21.9	282	19.4	17.3	...	...	...	...	...	...	...
	ARC-LENGTH CORRECTION FACTOR →											...	.82	.84	.86	.87	.88	.90
3.10	4.90	15.00	564	12.1	8.2	374	8.5	6.0	281	6.6	4.8	...	15.0	17.1	19.2	21.3	23.8	26.4
	5.20	16.00	561	13.5	9.50	372	9.5	6.9	279	7.4	5.5	...	13.8	15.9	18.1	20.1	22.7	25.3
3.12	9.00	28.00	558	30.0	25.0	370	21.2	18.3	278	16.4	14.4	...	...	...	...	...	...	...
	16.00	50.00	558	...	...	370	40.5	36.2	277	31.9	29.1	...	...	...	...	...	...	...
3.13	7.50	23.60	551	23.7	19.2	365	16.6	13.9	274	12.9	10.9	...	...	...	...	...	...	...
	11.80	37.50	547	40.8	34.6	363	29.3	25.9	272	22.8	20.5	...	...	...	...	...	...	...
3.14	6.70	21.20	547	20.2	15.9	363	14.2	11.5	272	11.0	9.1	...	...	...	...	...	16.5	19.2
	5.90	18.70	546	16.6	12.6	362	11.7	9.1	271	9.1	7.2	...	...	...	14.8	17.0	19.6	22.3
3.21	4.40	14.00	541	9.8	5.9	359	6.9	4.4	269	5.4	3.6	...	16.4	18.4	20.5	22.5	25.1	27.6
	9.75	31.50	538	33.0	27.8	356	23.4	20.4	268	18.2	16.1	...	...	...	...	...	...	...
3.23	4.65	15.00	534	10.9	7.0	354	7.7	5.2	266	6.0	4.2	...	15.2	17.3	19.4	21.5	24.0	26.6
	4.90	16.00	528	12.1	8.2	350	8.5	6.0	263	6.6	4.8	...	14.0	16.1	18.2	20.3	22.9	25.5
3.31	8.50	28.00	527	27.9	23.2	349	19.7	16.9	262	15.3	13.2	...	...	...	...	...	...	...
	11.30	37.50	524	39.0	33.0	347	27.8	24.6	260	21.7	19.5	...	...	...	...	...	...	...
3.32	15.00	50.00	523	...	...	346	37.9	33.9	260	29.8	27.2	...	...	...	...	...	...	...
	7.10	23.60	521	22.0	17.6	346	15.4	12.7	259	12.0	10.0	...	...	...	...	...	...	...
3.33	6.30	21.20	514	18.4	14.3	341	13.0	10.3	256	10.0	8.1	...	...	...	...	...	16.8	19.5
	9.25	31.50	510	31.0	26.0	338	21.9	19.0	254	17.0	14.9	...	...	...	...	...	...	...
3.40	5.50	18.70	508	14.8	10.8	337	10.4	7.9	253	8.1	6.2	...	...	...	15.1	17.2	19.9	22.5
	10.90	37.50	505	37.5	31.7	335	26.7	23.5	251	20.8	18.6	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →											0.79	0.81	0.83	0.85	0.86	0.87	0.89	
3.47	4.40	15.00	505	9.8	5.9	335	6.9	4.4	251	5.4	3.6	...	...	...	19.6	21.6	24.2	26.7
	4.65	16.00	501	10.9	7.0	332	7.7	5.2	249	6.0	4.2	...	...	...	18.4	20.5	23.1	25.7
3.49	8.00	28.00	496	25.8	21.2	328	18.2	15.4	246	14.1	12.1	...	...	...	...	...	...	...
	9.00	31.50	496	30.0	25.0	329	21.2	18.2	246	16.4	14.4	...	...	...	...	...	...	...
3.53	6.70	23.60	491	20.2	16.0	326	14.2	11.5	244	11.0	9.1	...	...	...	...	...	...	...
	14.00	50.00	487	48.4	40.8	323	35.3	31.5	242	27.6	25.1	...	...	...	...	...	...	...
3.56	5.90	21.20	481	16.7	12.6	319	11.7	9.1	239	9.1	7.2	...	...	...	...	...	17.0	19.7
	5.20	18.70	480	13.5	9.5	318	9.5	6.9	238	7.4	5.5	...	...	...	15.2	17.4	20.1	22.7
3.64	10.30	37.50	477	35.5	29.7	316	25.0	21.9	237	19.4	17.3	...	...	...	...	...	...	...
	4.40	16.00	473	9.8	5.9	314	6.93	4.4	235	5.4	3.6	...	...	...	18.6	20.7	23.3	25.8
ARC-LENGTH CORRECTION FACTOR →											...	...	...	0.81	0.83	0.85	0.87	

NOTES: * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																											
	5VX 900	5VX 950	5VX 100	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3000	5V 3150	5V 3350	5V 3550			
2.74	27.3	29.9	32.4	35.4	38.5	41.5	45.0	48.5	52.6	58	63	68	73	78	83	89	95	101	108	115	123	133	140	150	160			
2.76	28.5	31.0	33.6	36.6	39.6	42.6	46.2	49.7	53.7	59	64	69	74	79	84	90	96	102	109	116	124	134	141	151	161			
2.80	18.2	20.9	23.6	26.7	29.8	32.9	36.5	40.1	44.1	49	54	59	64	69	74	80	86	92	99	107	115	125	132	142	152			
2.82	24.3	26.9	29.4	32.5	35.5	38.6	42.1	45.7	49.7	55	60	65	70	75	80	86	92	98	105	112	120	130	137	147	157			
2.85	21.4	24.0	26.6	29.7	32.7	35.8	39.4	42.9	47.0	52	57	62	67	72	77	83	89	95	102	110	117	127	135	145	155			
2.88	31.5	34.0	36.5	39.5	42.5	45.5	49.1	52.6	56.6	62	67	72	77	82	87	93	99	105	112	119	127	137	144	154	164			
2.89	30.7	33.2	35.7	38.8	41.8	44.8	48.3	51.8	55.8	61	66	71	76	81	86	92	98	104	111	118	126	136	143	153	163			
2.90	29.8	32.3	34.9	37.9	40.9	43.9	47.4	51.0	55.0	60	65	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
2.91	28.7	31.3	33.8	36.8	39.8	42.9	46.4	49.9	53.9	59	64	69	74	79	84	90	96	102	109	117	124	134	142	152	162			
2.94	27.6	30.2	32.7	35.7	38.8	41.8	45.3	48.8	52.9	58	63	68	73	78	83	89	95	101	108	116	123	133	141	151	161			
2.97	18.5	21.3	23.9	27.1	30.2	33.3	36.9	40.4	44.5	50	55	60	65	70	75	81	87	93	100	107	115	125	132	142	152			
3.00	24.6	27.2	29.7	32.8	35.8	38.9	42.4	46.0	50.0	55	60	65	70	75	80	86	92	98	105	113	120	130	138	148	158			
3.01	21.6	24.2	26.8	29.9	33.0	36.1	39.6	43.2	47.2	52	57	62	67	72	77	83	90	96	103	110	118	128	135	145	155			
3.02	30.9	33.4	35.9	38.9	41.9	45.0	48.5	52.0	56.0	61	66	71	76	81	86	92	98	104	111	119	126	136	144	154	164			
3.05	30.0	32.5	35.0	38.1	41.1	44.1	47.6	51.1	55.2	60	65	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
3.08	25.0	28.2	31.9	35.5	39.6	45	50	55	60	65	70	75	80	85	91	97	103	110	118	125	130	138	148	158	168			
	.91	.92	.93	.94	.95	.96	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.10	1.12	1.13	1.14	1.15	1.16			
3.10	28.9	31.5	34.0	37.0	40.1	43.1	46.6	50.1	54.1	59	64	69	74	79	84	90	96	102	109	117	124	134	142	152	162			
3.12	27.8	30.4	32.9	36.0	39.0	42.0	45.5	49.1	53.1	58	63	68	73	78	83	89	95	101	108	116	123	133	141	151	161			
3.13	21.9	25.2	28.4	32.0	35.7	39.8	45	50	55	60	65	70	75	80	86	92	98	104	111	119	126	136	144	154	164			
3.14	18.9	21.6	24.3	27.4	30.5	33.6	37.2	40.8	44.9	50	55	60	65	70	75	81	87	93	100	108	115	125	133	143	153			
3.18	21.9	24.5	27.1	30.2	33.3	36.4	40.1	43.1	46.6	50.1	54.1	58	63	68	73	78	84	90	96	102	109	117	124	134	142	152		
3.20	24.9	27.4	30.0	33.1	36.1	39.2	42.7	46.2	50.3	55	60	65	70	75	80	86	92	98	105	113	121	131	138	148	158			
3.21	30.2	32.7	35.2	38.3	41.6	44.3	47.8	51.3	55.3	60	65	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
3.25	29.1	31.7	34.2	37.2	41.2	43.3	46.8	50.3	54.3	59	64	69	74	79	84	90	96	102	109	117	124	134	142	152	162			
3.27	28.0	30.6	33.1	36.2	39.2	42.2	45.7	49.3	53.3	58	63	68	73	78	83	89	95	101	108	116	123	133	141	151	161			
3.31	22.2	25.5	28.7	32.4	36.0	40.1	45	50	55	60	66	71	77	83	89	96	103	111	121	128	139	148	158	168				
3.32	28.7	34	40	45	50	55	60	66	71	77	83	89	96	103	111	121	128	139	148	158	168	178	188	198				
3.33	21.9	25.2	28.4	32.0	35.7	39.8	45	50	55	60	65	70	75	80	86	92	98	104	111	119	126	136	144	154	164			
3.34	18.9	21.6	24.3	27.4	30.5	33.6	37.2	40.8	44.9	50	55	60	65	70	75	81	87	93	100	108	115	125	133	143	153			
3.35	21.9	24.5	27.1	30.2	33.3	36.4	40.1	43.1	46.6	50.1	54.1	58	63	68	73	78	84	90	96	102	109	117	124	134	142	152		
3.36	24.9	27.4	30.0	33.1	36.1	39.2	42.7	46.2	50.3	55	60	65	70	75	80	86	92	98	105	113	121	131	138	148	158			
3.37	30.2	32.7	35.2	38.3	41.6	44.3	47.8	51.3	55.3	60	65	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
3.38	29.1	31.7	34.2	37.2	41.2	43.3	46.8	50.3	54.3	59	64	69	74	79	84	90	96	102	109	117	124	134	142	152	162			
3.39	28.0	30.6	33.1	36.2	39.2	42.2	45.7	49.3	53.3	58	63	68	73	78	83	89	95	101	108	116	123	133	141	151	161			
3.40	22.2	25.5	28.7	32.4	36.0	40.1	45	50	55	60	66	71	77	83	89	96	103	111	121	128	139	148	158	168				
3.41	28.7	34	40	45	50	55	60	66	71	77	83	89	96	103	111	121	128	139	148	158	168	178	188	198				
3.42	21.9	25.2	28.4	32.0	35.7	39.8	45	50	55	60	65	70	75	80	86	92	98	104	111	119	126	136	144	154	164			
3.43	18.9	21.6	24.3	27.4	30.5	33.6	37.2	40.8	44.9	50	55	60	65	70	75	81	87	93	100	108	115	125	133	143	153			
3.44	21.9	24.5	27.1	30.2	33.3	36.4	40.1	43.1	46.6	50.1	54.1	58	63	68	73	78	84	90	96	102	109	117	124	134	142	152		
3.45	24.9	27.4	30.0	33.1	36.1	39.2	42.7	46.2	50.3	55	60	65	70	75	80	86	92	98	105	113	121	131	138	148	158			
3.46	30.2	32.7	35.2	38.3	41.6	44.3	47.8	51.3	55.3	60	65	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
	.91	.92	.93	.94	.95	.96	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.10	1.12	1.13	1.14	1.15	1.16			
3.47	29.3	31.8	34.4	37.4	40.4	43.4	47	50	54	59	64	70	75	80	85	91	97	103	110	118	125	135	143	153	163			
3.49	28.2	30.8	33.3	36.3	39.4	42.4	46	49	53	58	63	68	74	79	84	90	96	102	109	117	124	134	142	152	162			
3.53	19.4	22.1	24.8	27.9	31.1	34.2	38	41	45	50	56	61	66	71	76	81	87	93	99	106	113	121	131	138	148	158		
3.56	22.4	25.1	27.7	30.8	33.9	36.9	40	44	48	53	58	63	68	73	78	84	90	96	103	111	119	126	136	144	154	164		
3.59	25.3	27.9	30.5	33.6	36.6	39.7	43	47	51	56	61	66	71	76	81	87	93	99	106	114	121	131	139	149	159			
3.64	19.4	22.1	24.8	27.9	31.1	34.2	38	41	45	50	56	61	66	71	76	81	87	93	99	106	113	121	131	138	148	158		
3.65	22.4	25.1	27.7	30.8	33.9	36.9	40	44	48	53	58	63	68	73	78	84	90	96	103	111	119	126	136	144	154	164		
3.67	25.3	27.9	30.5	33.6	36.6	39.7	43	47	51	56	61	66	71	76	81	87	93	99	106	114	121	131	139	149	159			
3.70	28.4	30.9	33.5	36.5	39.6	42.6	46	50	54	59	64	69	74	79	84	90	96	102	109	117	124	134	142	152	162			
	.91	.92	.93	.94	.95	.96	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.10	1.12	1.13	1.14	1.15	1.16			

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

Bushings

V-Drives

FHP



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX

D-V Wedge
Single Belts to 200"
POLYBAND to 200"

5V

D-V Wedge
Single Belts over 200"
POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver				1160 RPM Driver				870 RPM Driver				Belt Number and Approx. Center Distance																						
	Diameter		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800	5VX 850																			
	Driver	Driven		5VX	5V		5VX	5V		5VX	5V																										
ARC-LENGTH CORRECTION FACTOR →																			0.81	0.83	0.85	0.87												
3.74	8.50	31.50	468	27.9	23.2	310	19.7	16.9	233	15.3	13.2	...	...	...	...	...	...	...												
3.77	7.50	28.00	464	23.7	19.2	308	16.7	13.9	231	12.9	11.0	...	...	...	...	...	...	...												
3.79	6.30	23.60	462	18.4	14.3	306	13.0	10.3	230	10.1	8.1	...	...	...	...	...	...	16.8													
3.81	13.20	50.00	459	45.8	38.7	305	33.1	29.5	228	25.9	23.5	...	...	...	...	...	...	...												
3.87	4.90	18.70	452	12.1	8.2	299	8.5	6.0	225	6.6	4.8	...	.....	...	15.4	1.76	20.3	22.9																
3.88	9.75	37.50	452	33.0	27.8	299	23.4	20.4	224	18.2	16.1	...	...	...	...	...	...	...												
3.91	5.50	21.20	448	14.9	10.8	297	10.4	7.9	223	8.1	6.2	...	...	...	...	...	1.73	20.0														
3.97	8.00	31.50	440	25.8	21.2	292	18.2	15.4	219	14.1	12.1	...	...	...	...	...	...	...												
3.99	7.10	28.00	439	22.0	17.6	291	15.4	12.8	218	12.0	10.0	...	...	...	...	...	...	...												
4.02	12.50	50.00	435	43.3	36.7	288	31.2	27.8	216	24.4	22.0	...	...	...	...	...	...	...												
ARC-LENGTH CORRECTION FACTOR →																			0.77	0.79	0.81	0.83												
4.05	5.90	23.60	432	16.7	12.6	286	11.7	9.1	215	9.1	7.2	...	...	...	...	...	...	17.0													
4.09	4.65	18.70	428	10.9	7.1	284	7.7	5.2	213	6.0	4.2	...	...	...	15.6	1.78	20.5	23.1																
	9.25	37.50	428	31.0	26.0	284	21.9	19.0	213	17.0	14.9	...	...	...	...	...	...	...												
4.14	5.20	21.20	423	13.5	9.5	280	9.5	7.0	210	7.4	5.5	...	...	...	...	...	17.4	20.2														
4.20	9.00	37.50	416	30.0	25.1	276	21.2	18.3	207	16.4	14.4	...	...	...	...	...	...	...												
4.23	6.70	28.00	414	20.2	16.0	274	14.2	11.6	206	11.0	9.1	...	...	...	...	...	...	...												
4.24	7.50	31.50	412	23.7	19.2	273	16.7	13.9	205	12.9	11.0	...	...	...	...	...	...	...												
4.26	11.80	50.00	410	40.8	34.6	272	29.3	26.0	204	22.8	20.5	...	...	...	...	...	...	...												
4.33	4.40	18.70	405	9.8	5.9	201	6.9	4.4	201	5.4	3.6	...	...	...	15.7	1.79	20.6	23.3																
4.35	5.50	23.60	402	14.9	10.8	267	10.4	7.9	200	8.1	6.2	...	...	...	...	...	...	17.3													
ARC-LENGTH CORRECTION FACTOR →																			0.76	0.78	0.80	0.83												
4.40	4.90	21.20	398	12.1	8.2	264	8.5	6.0	198	6.6	4.8	...	...	...	...	14.8	1.76	20.4															
4.45	8.50	37.50	393	27.9	23.2	261	19.7	16.9	196	15.3	13.2	...	...	...	...	...	...	...												
4.46	11.30	50.00	393	39.0	33.1	260	27.9	24.6	195	21.7	19.5	...	...	...	...	...	...	...												
4.49	7.10	31.50	390	22.0	17.6	259	15.4	12.8	194	12.0	10.0	...	...	...	...	...	...	...												
4.50	6.30	28.00	389	18.4	14.3	258	13.0	10.3	193	10.1	8.1	...	...	...	...	...	...	...												
4.61	5.20	23.60	380	13.5	9.5	252	9.6	7.0	189	7.4	5.5	...	...	...	...	...	...	17.5													
4.62	10.90	50.00	379	37.5	31.8	251	26.7	23.6	188	20.8	18.6	...	...	...	...	...	...	...												
4.64	4.65	21.20	377	11.0	7.1	250	7.7	5.2	188	6.0	4.2	...	...	...	14.9	1.78	20.5	...																
4.73	8.00	37.50	370	25.8	21.2	245	18.2	15.4	184	14.1	12.1	...	...	...	...	...	...	...												
4.76	6.70	31.50	368	20.2	16.0	244	14.2	11.6	183	11.0	9.1	...	...	...	...	...	...	...												
ARC-LENGTH CORRECTION FACTOR →																			0.73	0.76	0.78	0.80												
4.81	5.90	28.0	364	16.7	12.6	241	11.7	9.1	181	9.1	7.2	...	...	...	...	...	...	...												
4.89	10.30	50.0	358	35.2	29.7	237	25.0	21.9	178	19.4	17.3	...	...	...	...	...	...	...												
4.90	4.90	23.60	357	12.1	8.2	237	8.5	6.0	178	6.7	4.8	...	...	...	...	...	...	1.77													
4.91	4.40	21.20	357	9.8	5.9	236	6.9	4.4	177	5.4	3.6	...	...	...	...	15.1	1.79	20.7															
5.05	7.50	37.50	346	23.7	19.2	230	16.7	13.9	172	12.9	11.0	...	...	...	...	...	...	...												
5.06	6.30	31.50	346	18.5	14.3	229	13.0	10.3	172	10.0	8.1	...	...	...	...	...	...	...												
5.16	4.65	23.60	339	11.0	7.1	225	7.74	5.2	169	6.0	4.2	...	...	...	...	...	...	17.8													
5.17	5.50	28.00	339	14.5	10.8	225	10.4	7.9	168	8.1	6.2	...	...	...	...	...	...	...												
	9.75	50.00	338	33.0	27.8	224	23.4	20.4	168	18.2	16.1	...	...	...	...	...	...	...												
5.34	7.10	37.50	328	22.0	17.6	217	15.4	12.8	163	12.0	10.0	...	...	...	...	...	...	...												
5.41	5.90	31.5	323	16.7	12.5	214	11.7	9.1	161	9.1	7.2	...	...	...	...	...	...	...												
5.45	9.25	50.00	321	31.0	26.0	213	21.9	19.0	160	17.0	15.0	...	...	...	...	...	...	...												
5.47	4.40	23.60	320	9.8	5.9	212	6.9	4.4	159	5.4	3.6	...	...	...	...	...	...	18.0													
	5.20	28.00	320	13.5	9.5	212	9.5	7.0	159	7.4	5.5	...	...	...	...	...	...	...												
5.61	9.00	50.00	312	29.8	25.1	207	21.2	18.3	155	16.4	14.4	...	...	...	...	...	...	...												
ARC-LENGTH CORRECTION FACTOR →																		80	.83	.85	.87	.89	.93												

NOTES: * 5VX = Single and Polyband belts to 200" length
5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																								
	5VX 900	5VX 950	5VX 100	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3000	5V 3150	5V 3350	5V 3550
	.88	.90	.92	.93	.94	.95	.97	.96	.99	1.00	1.01	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.10	1.12	1.13	1.14	1.15	1.16
3.74	...	...	...	...	...	24.9	28.8	32.6	36.8	42	47	52	57	63	68	74	80	86	93	100	108	118	126	136	146
3.77	...	...	19.4	22.8	26.1	29.3	33.0	36.7	40.8	46	51	56	61	66	71	77	83	89	97	104	112	122	129	139	149
3.79	19.6	22.4	25.0	28.2	31.3	34.4	38.0	41.6	45.7	51	56	61	66	71	76	82	88	91	101	109	116	126	134	144	154
3.81	...	...	...	...	...	...	...	...	...	...	...	...	36	41	47	53	59	66	73	81	88	99	106	116	126
3.87	25.5	28.1	30.7	33.8	36.8	39.9	43.4	47.0	51.0	56	61	66	71	76	81	87	93	99	106	114	121	131	139	149	159
3.88	...	...	...	...	...	...	...	...	30	35	40	46	51	56	61	67	74	80	87	94	102	112	120	130	140
3.91	22.7	25.3	27.9	31.0	34.1	37.2	40.8	44.3	48.4	53	58	63	69	74	79	85	91	97	104	111	119	129	136	146	156
3.97	...	...	...	...	21.8	25.3	29.1	32.9	37.1	42	47	53	58	63	68	74	80	86	93	101	108	118	126	136	146
3.99	...	...	19.7	23.1	26.4	29.6	33.3	37.0	41.1	46	51	56	61	67	72	78	84	90	97	104	112	122	129	150	150
4.02	...	...	...	...	...	...	...	...	...	...	...	...	36	42	47	54	60	66	73	81	89	99	10	117	127
	.85	.87	.88	.90	.92	.93	.95	.96	.97	.99	1.00	1.01	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15
4.05	19.9	22.6	25.3	28.5	31.6	34.7	38.3	41.9	46.0	51	56	61	66	71	76	82	88	94	101	109	116	127	134	144	154
4.09	25.7	28.3	30.9	33.9	37.0	40.0	43.6	47.1	51.2	56	61	66	71	76	81	87	93	99	106	114	121	131	139	149	159
4.14	22.9	25.5	28.1	31.3	34.3	37.4	41.0	44.6	49	54	59	64	69	74	79	85	91	97	104	111	119	129	136	147	157
4.20	...	...	...	...	...	...	...	25.5	30	36	41	46	51	57	62	68	74	80	87	95	102	112	120	130	140
4.23	...	...	19.9	23.3	26.6	29.9	33.6	37.2	41	46	52	57	62	67	72	78	84	90	97	105	112	122	130	140	150
4.24	...	...	...	...	22.1	25.6	29.4	33.2	37	43	48	53	58	63	68	74	80	86	94	101	109	119	126	136	146
4.26	...	...	...	...	...	...	...	...	...	...	...	...	36	42	48	54	60	67	74	82	89	100	107	117	127
4.33	25.9	28.5	31.0	34.1	37.2	40.2	43.8	47.3	51.4	56	61	66	72	77	81	88	94	100	107	114	122	132	139	149	159
4.35	20.1	22.9	25.6	28.7	31.9	35.0	38.6	42.2	46.3	51	56	61	67	72	77	83	89	95	102	109	117	127	134	144	154
	0.87	0.89	0.91	0.92	0.93	0.94	.95	.97	.98	.99	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15
4.40	23.1	25.7	28.3	31.5	34.6	37.6	41.2	44.8	48.8	54	59	64	69	74	79	85	91	97	104	112	119	129	137	147	157
4.45	...	...	...	...	...	...	...	25.8	30.4	36	41	47	52	57	62	68	74	81	88	95	103	113	120	131	141
4.46	...	...	...	...	...	...	...	...	...	...	...	...	37	42	48	54	61	67	74	82	90	100	108	118	128
4.49	...	...	...	...	22.4	25.8	29.7	33.5	37.7	43	48	53	58	63	69	75	81	87	94	101	109	119	127	137	147
4.50	...	...	20.2	23.6	26.9	30.1	33.8	37.5	41.7	47	52	57	62	67	72	78	84	90	97	105	113	123	130	140	150
4.61	20.3	23.1	25.7	28.9	32.1	35.2	38.8	42.4	46.5	52	57	62	67	72	77	83	89	95	102	110	117	127	135	145	155
4.62	...	...	...	...	...	...	...	...	...	...	...	...	37	43	48	55	61	67	75	82	90	100	108	118	128
4.64	23.2	25.9	28.5	31.6	34.7	37.8	41.4	44.9	49.0	54	59	64	69	74	79	85	91	97	104	112	119	129	137	147	157
4.73	...	...	...	...	...	...	...	26.1	30.7	36	42	47	52	57	62	69	75	81	88	93	103	113	121	131	141
4.76	...	...	...	...	22.6	26.1	29.9	33.7	38.0	43	48	54	59	64	69	75	81	87	94	102	109	119	127	137	147
	0.83	0.84	0.85	0.86	0.88	0.88	0.89	0.91	0.93	0.96	0.97	0.98	1.00	1.01	1.02	1.036	1.04	1.06	1.07	1.08	1.09	1.10	1.12	1.13	1.14
4.81	...	...	20.4	23.8	27.1	30.4	34.1	37.8	41.9	47	52	57	62	67	73	79	85	91	98	105	113	123	130	140	150
4.89	...	...	...	...	...	...	...	...	...	...	...	...	37	43	49	55	61	68	75	83	90	101	108	119	129
4.90	20.5	23.2	25.9	29.1	32.3	35.4	39.0	42.6	46.7	52	57	62	67	72	77	83	89	95	102	110	117	127	135	145	155
4.91	23.4	26.0	28.7	31.8	34.9	38.0	41.6	45.1	49.2	54	59	64	69	74	79	85	91	97	105	112	120	130	137	147	157
5.05	...	...	...	...	...	...	...	26.4	31.0	37	42	47	52	58	63	69	75	81	88	96	104	114	121	131	141
5.06	...	...	...	...	22.9	26.3	30.2	34.0	38.3	44	49	54	59	64	69	75	81	87	94	102	110	120	127	137	147
5.16	20.6	23.4	26.1	29.3	32.4	35.5	39.2	42.8	46.9	52	57	62	67	72	77	83	89	95	102	110	117	127	135	145	155
5.17	...	...	20.6	24.1	27.4	30.6	34.4	38.0	42.2	47	52	58	63	68	73	79	85	91	98	106	113	123	134	141	151
5.34	...	...	...	...	...	...	...	26.6	31.3	37	42	47	53	58	63	69	75	82	89	96	104	114	121	132	142
5.41	...	...	...	...	23.1	26.6	30.5	34.2	38.5	44	49	54	59	64	69	76	82	88	95	102	110	120	127	138	148
5.45	...	...	...	...	...	...	...	...	...	...	...	...	38	44	49	56	62	68	76	84	91	101	109	119	129
5.47	20.8	23.6	26.3	29.5	32.6	35.7	39.3	42.9	47.0	52	57	62	67	72	77	83	90	96	103	110	118	128	135	145	155
5.61	...	...	20.8	24.3	27.6	30.8	34.5	38.2	42.4	48	53	58	63	68	73	79	85	91	98	106	113	123	131	141	151
	0.80	0.83	0.84	0.85			.93	.94	.96	.98	.99	1.00	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.06	1.11	1.09	1.13	1.12	1.15

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Number and Approx. Center Distance								
	Diameter		Driven RPM	HP/Belt		Driven RPM	HP/Belt		Driven RPM	HP/Belt		5VX 600	5VX 630	5VX 670	5VX 710	5VX 750	5VX 800	5VX 850		
	Driver	Driven		5VX	5V		5VX	5V		5VX	5V									
5.67	6.70	37.50	309	20.2	16.0	205	14.2	11.6	153	11.0	9.1	...	...	...	...	...	...	...
5.81	4.90	28.00	301	12.1	8.2	200	8.5	6.0	150	6.7	4.8	...	...	...	...	...	...	...
	5.50	31.50	301	14.9	10.8	199	10.5	7.9	150	8.1	6.2	...	...	...	...	...	...	...
5.94	8.50	50.00	295	27.9	23.2	195	19.7	16.9	146	15.3	13.3	...	...	...	...	...	...	...
6.03	6.30	37.50	290	18.5	14.3	192	13.0	10.3	144	10.1	8.1	...	...	...	...	...	...	...
6.13	4.65	28.00	285	11.0	7.1	189	7.7	5.2	142	6.0	4.2	...	...	...	...	...	...	...
6.16	5.20	31.50	284	13.5	9.5	188	9.5	7.0	141	7.4	5.5	...	...	...	...	...	...	...
6.32	8.00	50.00	277	25.8	21.2	184	18.2	15.4	138	14.1	12.1	...	...	...	...	...	...	...
6.45	5.90	37.50	271	16.7	12.6	180	11.7	9.1	135	9.1	7.2	...	...	...	...	...	...	...
6.49	4.40	28.00	270	9.8	5.9	179	6.9	4.4	134	5.4	3.6	...	...	...	...	...	...	...
6.54	4.90	31.50	268	12.1	8.2	177	8.5	6.0	133	6.7	4.8	...	...	...	...	...	...	...
6.74	7.50	50.00	260	23.7	19.3	172	16.7	14.0	129	12.9	11.0	...	...	...	...	...	...	...
6.90	4.65	31.50	254	11.0	7.1	168	7.7	5.2	126	6.0	4.2	...	...	...	...	...	...	...
6.93	5.50	37.50	253	14.9	10.7	167	10.5	7.9	126	8.1	6.2	...	...	...	...	...	...	...
7.13	7.10	50.00	245	22.0	17.6	163	15.4	12.8	122	12.0	10.0	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →											
7.30	4.40	31.50	240	9.8	5.9	159	6.9	4.4	119	5.4	3.6	...	...	...	...	...	...	...
7.33	5.20	37.50	239	13.5	9.5	158	9.5	7.0	119	7.4	5.5	...	...	...	...	...	...	...
7.56	6.70	50.00	231	20.2	16.0	153	14.2	11.6	115	11.0	9.1	...	...	...	...	...	...	...
7.79	4.90	37.50	225	12.1	8.2	149	8.5	6.0	112	6.7	4.8	...	...	...	...	...	...	...
8.05	6.30	50.00	217	18.5	14.3	144	13.0	10.4	108	10.1	8.2	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →											
8.22	4.65	37.50	213	11.0	7.1	141	7.7	5.2	106	6.0	4.2	...	...	...	...	...	...	...
8.60	5.90	50.00	203	16.7	12.6	135	11.7	9.1	101	9.1	7.2	...	...	...	...	...	...	...
8.70	4.40	37.50	201	9.8	5.9	133	6.9	4.4	100	5.4	3.6	...	...	...	...	...	...	...
9.24	5.50	50.00	189	14.9	10.9	126	10.5	7.9	94	8.1	6.2	...	...	...	...	...	...	...
9.78	5.20	50.00	179	13.5	9.5	119	9.5	7.0	89	7.4	5.5	...	...	...	...	...	...	...
10.40	4.90	50.00	168	12.1	8.2	112	8.5	6.0	84	6.7	4.8	...	...	...	...	...	...	...
10.97	4.65	50.00	160	11.0	7.1	106	7.7	5.2	79	6.0	4.2	...	...	...	...	...	...	...
11.60	4.40	50.00	151	9.8	5.9	100	6.9	4.4	75	5.4	3.6	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →											

NOTES: * 5VX = Single and Polyband belts to 200" length
 5V = Single and Polyband belts over 200" long

** Stock belt size 5VX530 not shown

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX D-V Wedge Single Belts to 200" POLYBAND to 200"

5V D-V Wedge Single Belts over 200" POLYBAND over 200"

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																											
	5VX 900	5VX 950	5VX 100	5VX 1060	5VX 1120	5VX 1180	5VX 1250	5VX 1320	5VX 1400	5VX 1500	5VX 1600	5VX 1700	5VX 1800	5VX 1900	5VX 2000	5V 2120	5V 2240	5V 2360	5V 2500	5V 2650	5V 2800	5V 3000	5V 3150	5V 3350	5V 3550			
5.67	26.9	31.5	37	40	48	53	58	63	70	76	82	89	97	104	114	122	132	142			
5.81	...	18.0	21.0	24.4	27.8	31.0	34.7	38.4	42.6	48	53	58	63	68	73	79	85	91	98	106	114	124	131	141	151			
5.94	32	38	44	50	56	63	69	76	84	92	102	110	120	130			
6.03	27.1	31.8	37	43	48	53	58	64	70	76	82	89	97	104	115	122	132	142			
6.13	...	18.1	21.1	24.6	27.9	31.2	34.9	38.6	42.8	48	53	58	63	68	73	79	86	92	99	106	114	124	131	141	151			
6.16	23.5	27.0	30.9	34.7	39.0	44	49	55	60	65	70	76	82	88	95	103	110	120	128	138	148			
8.32	33	39	44	50	56	63	69	76.6	84	92	102	110	120	130			
6.45	27.4	32.0	38	43	48	54	59	64	70	76	82	89	97	105	115	122	132	142			
6.49	...	18.3	21.3	24.7	28.1	31.3	35.1	38.8	42.9	48	53	58	63	68	74	80	86	92	99	106	114	124	131	142	152			
6.54	20.0	23.7	27.2	31.1	34.9	39.2	44	50	55	60	65	70	76	82	88	95	103	111	121	128	138	148			
6.74	33	39	45	50	57	63	70	77	85	92	103	110	120	131			
6.90	20.2	23.8	27.3	31.2	35.1	39.3	45	50	55	60	65	70	76	83	89	96	103	111	121	127	138	149			
6.93	27.6	32.3	38	43	49	54	59	64	70	71	83	90	97	105	115	123	133	143			
7.13	33	39	45	51	57	64	70	77	85	93	103	111	121	131			
...	...	0.75	0.77	0.81	0.84	0.87	0.88	0.89	0.91	0.93	0.94	0.95	0.97	0.99	1.00	4.02	1.04	1.06	10.9	1.09	1.10	1.11	1.12	1.13	1.14			
7.30	20.3	24.0	27.5	31.4	35.2	39.5	45	50	55	60	65	71	77	83	86	96	103	111	121	129	139	149			
7.33	27.8	32.4	38	43	49	54	59	64	71	77	83	90	98	105	115	123	133	143.1			
7.56	33	39	45	51	57	64	70	77	85	93	103	111	121	131.2			
7.79	23.6	28.0	32.6	38	44	49	54	59	65	71	77	83	90	98	105	116	123	133	143.3			
8.05	34	40	45	51	58	64	70	78	86	93	103	111	121	131			
...	0.79	0.82	0.84	0.86	0.88	0.89	0.90	0.93	0.94	0.96	0.97	0.98	1.00	1.02	1.04	10.5	10.7	10.8	1.10	1.11	1.12	1.14			
8.22	23.7	28.1	32.8	38	44	49	54	60	65	71	77	83	90	98	106	116	123	133	143			
8.60	34	40	46	51	59	64	71	78	86	94	104	111	122	132			
8.70	23.9	28.3	33.0	39	44	49	55	60	65	71	77	83	91	98	106	116	123	134	144			
9.24	34	40	46	52	58	64	71	78	86	94	104	112	122	132			
9.78	34	40	46	52	58	64	71	78	86	94	104	112	122	132			
10.40	35	41	46	52	59	65	71	79	86	91	104	112	122	132			
10.97	35	41	47	52	59	65	72	79	87	94	105	112	123	133			
11.60	35	41	47	52	59	65	72	79	87	95	101	112	123	133			
...	0.84	0.86	0.87	0.88	0.90	0.92	0.94	0.95	0.96	0.98	1.00	1.02	1.04	1.05	1.07	1.09	1.11	1.12	1.14			

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

8V

D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Ratio	Stock Sheaves		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance									
	Diameter		Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	8VX 1000	8VX 1060	8VX 1120	8VX 1180	8VX 1250	8VX 1320	8VX 1400	8VX 1500		
	Driver	Driven																
1.00	12.5	12.5	1750	50.9	1160	42.6	870	35.0	30.4	33.4	36.4	39.4	42.9	46.4	50.4	55.4		
	13.2	13.2	1750	56.1	1160	47.3	870	38.9	29.3	32.3	35.3	38.3	41.8	45.3	49.3	54.3		
	14.0	14.0	1750	61.7	1160	52.5	870	43.2	28.0	31.0	34.0	37.0	40.5	44.0	48.0	53.0		
	15.0	15.0	...	...	1160	58.8	870	48.6	26.4	29.4	32.4	35.4	38.9	42.5	46.5	51.5
	16.0	16.0	...	...	1160	64.8	870	53.8	24.9	27.9	30.9	33.9	37.4	40.9	44.9	49.9
	17.0	17.0	...	...	1160	70.6	870	58.9	23.3	26.3	29.3	32.3	35.8	39.3	43.3	48.3
	18.0	18.0	...	...	1160	76.1	870	63.9	21.7	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	19.0	19.0	...	...	1160	81.2	870	68.7	...	23.2	26.2	29.2	32.7	36.2	40.2	45.2
	20.0	20.0	...	...	1160	86.1	870	73.3	...	...	24.6	27.6	31.1	34.6	38.6	43.6
	21.2	21.2	...	...	1160	91.5	870	78.8	...	...	...	25.7	29.2	32.7	36.7	41.7
22.4	22.4	...	...	...	...	870	84.0	...	...	...	...	27.3	30.8	34.8	39.8	
24.8	24.8	...	...	...	...	870	93.8	...	...	...	...	...	...	31.0	36.0	
1.05	19.0	20.0	...	...	1101	82.5	826	69.6	...	...	25.4	28.4	31.9	...	39.4	44.4
1.06	12.5	13.2	1656	53.0	1098	44.1	823	36.1	29.8	32.8	35.8	38.8	42.3	45.8	49.8	54.8		
	13.2	14.0	1649	58.4	1093	48.7	820	40.0	28.6	31.6	34.6	37.6	41.1	44.6	48.6	53.6		
	16.0	17.0	...	...	1091	66.3	818	54.9	24.1	27.1	30.1	33.1	36.6	40.1	44.1	49.1
	17.0	18.0	...	...	1095	72.1	821	60.0	22.5	25.5	28.5	31.5	35.0	38.5	42.5	47.5
	18.0	19.0	...	...	1098	77.5	824	65.0	...	23.9	27.0	30.0	33.5	37.0	41.0	46.0
1.07	20.0	21.2	...	...	1094	87.6	820	74.5	...	...	...	26.7	30.2	33.7	37.7	42.7
	21.2	22.4	...	...	1097	93.0	823	79.9	...	...	...	...	28.3	31.8	35.8	40.8
	14.0	15.0	1632	64.2	1082	54.2	811	44.5	27.2	30.2	33.2	36.2	39.7	43.2	47.2	52.2		
1.11	15.0	16.0	...	...	1087	60.5	815	49.8	25.7	28.7	31.7	34.7	38.2	41.7	45.7	50.7
	18.0	20.0	...	...	1043	78.5	782	65.7	...	23.1	26.2	29.2	32.7	36.2	40.2	45.2
22.4	24.8	...	...	...	...	785	85.8	...	...	...	...	...	28.9	32.9	37.9	
ARC-LENGTH CORRECTION FACTOR →									.86	.87	.86	.89	.90	.90	.91	.92		
1.12	12.5	14.0	1560	54.8	1034	45.2	775	37.0	29.2	32.2	35.2	38.2	41.7	45.2	49.2	54.2		
	17.0	19.0	...	...	1037	73.2	777	60.8	21.7	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	19.0	21.2	...	...	1038	83.8	779	70.6	...	...	24.4	27.4	30.9	34.4	38.4	43.4
	20.0	22.4	...	...	1035	88.7	776	75.3	...	...	...	25.7	29.3	32.7	36.7	41.7
1.13	16.0	18.0	...	...	1030	67.5	772	55.9	23.3	26.3	29.3	32.3	35.8	39.3	43.3	48.3
1.14	13.2	15.0	1537	60.4	1019	50.1	764	41.0	27.8	30.8	33.9	36.9	40.4	43.9	47.9	52.9		
	14.0	16.0	1528	66.1	1013	55.4	760	45.4	26.4	29.4	32.4	35.4	38.9	42.4	46.4	51.4		
	15.0	17.0	...	...	1022	61.66	766	50.7	24.9	27.9	30.9	33.9	37.4	40.9	44.9	49.9
1.17	21.2	24.8	...	...	990	94.83	743	81.3	...	...	...	...	...	29.8	33.8	38.8
1.18	17.0	20.0	...	...	984	73.98	738	61.4	...	23.9	26.9	29.9	33.4	36.9	40.9	45.9
	18.0	21.2	...	...	983	79.46	737	66.4	...	...	25.2	28.2	31.7	35.2	39.2	44.2
	19.0	22.4	...	...	982	84.65	737	71.3	...	...	...	26.4	30.0	33.5	37.5	42.5
1.19	16.0	19.0	...	...	975	68.33	731	56.4	22.5	25.5	28.5	31.5	35.0	38.5	42.5	47.5
1.20	12.5	15.0	1454	56.4	964	46.20	723	37.7	28.4	31.4	34.4	37.4	40.9	44.4	48.4	53.4		
	15.0	18.0	...	...	964	62.40	723	51.3	24.0	27.1	30.1	33.1	36.6	40.1	44.1	49.1
1.21	24.8	30.0	...	...	...	...	718	96.6	...	...	...	...	...	...	...	31.9
1.22	13.2	16.0	1440	61.8	954	51.09	716	41.7	27.0	30.0	33.0	36.1	39.6	43.1	47.1	52.1		
	14.0	17.0	1438	67.4	953	56.31	715	46.1	25.6	28.6	31.6	34.6	38.1	41.6	45.6	50.6		
1.24	20.0	24.8	...	...	934	90.14	700	76.4	...	...	...	...	27.2	30.7	34.7	39.7
1.25	16.0	20.0	...	...	926	68.92	694	56.9	21.6	24.7	27.7	30.7	34.2	37.7	41.7	46.7
	17.0	21.2	...	...	928	74.68	696	62.0	...	22.9	25.9	28.9	32.4	36.0	40.0	45.0
	18.0	22.4	...	...	930	80.16	698	66.9	...	...	24.2	27.2	30.7	34.2	38.2	43.2
1.27	15.0	19.0	...	...	913	63.04	685	51.8	23.2	26.2	29.2	32.2	35.8	39.3	43.3	48.3
1.28	12.5	16.0	1362	57.5	903	46.92	677	38.2	27.6	30.6	33.6	36.6	40.1	43.6	47.6	52.6		
1.29	13.2	17.0	1354	62.8	898	51.68	673	42.2	26.2	29.2	32.2	35.2	38.7	42.3	46.3	51.3		
	14.0	18.0	1357	68.3	899	56.89	674	46.5	24.8	27.8	30.8	33.8	37.3	40.8	44.8	49.8		
1.31	19.0	24.8	...	...	887	85.80	665	72.1	...	...	...	...	27.9	31.5	35.5	40.5
1.32	17.0	22.4	878	75.19	658	62.4	24.9	27.9	31.5	35.0	39.0	44.0
1.33	16.0	21.2	...	...	873	69.49	655	57.3	...	23.7	26.7	29.7	33.2	36.7	40.7	45.7
1.34	15.0	20.0	...	...	867	63.51	650	52.1	22.4	25.4	28.4	31.4	34.9	38.4	42.5	47.5
	22.4	30.0	...	...	...	...	648	87.6	...	...	...	...	...	...	...	33.7
ARC-LENGTH CORRECTION FACTOR →									.84	.85	.86	.87	.88	.89	.90	.90		

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Ratio	Belt Number and Approx. Center Distance																					
	8V 1600	8V 1700	8V 1800	8V 1900	8V 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
1.00	60.4	65.4	70.4	75.4	80.4	86.4	92.4	98.4	105	113	120	130	138	148	158	168	180	193	205	218	230	260
	59.3	64.3	69.3	74.3	79.3	85.3	91.3	97.3	104	112	119	129	137	147	157	167	179	192	204	217	229	259
	58.0	63.0	68.0	73.0	78.0	84.0	90.0	96.0	103	110	118	128	135	145	155	165	178	190	203	215	228	258
	56.5	61.5	66.5	71.5	76.5	82.5	88.5	94.5	101	109	116	126	134	144	154	164	176	189	201	214	226	256
	54.9	59.9	64.9	69.9	74.9	80.9	86.9	92.9	100	107	115	125	132	142	152	162	175	187	200	212	225	255
	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
	50.2	55.2	60.2	65.2	70.2	76.2	82.2	88.2	95	103	110	120	127	138	148	158	170	183	195	208	220	250
	48.6	53.6	58.6	63.6	68.6	74.6	80.6	86.6	94	101	109	119	126	136	146	156	169	181	194	206	219	248
	46.7	51.7	56.7	61.7	66.7	72.7	78.7	84.7	92	99	107	117	124	134	144	154	167	179	192	204	217	247
44.8	49.8	54.8	59.8	64.8	70.8	76.8	82.8	90	97	105	115	122	132	142	152	165	177	190	202	215	245	
41.0	46.0	51.0	56.0	61.0	67.0	73.0	79.0	86	93	101	111	118	128	138	148	161	173	186	198	211	241	
1.05	49.4	54.4	59.4	64.4	69.4	75.4	81.4	87.4	94	102	109	119	127	137	147	157	169	182	194	207	219	249
1.06	59.8	64.8	69.8	74.8	79.8	85.8	91.8	97.8	105	112	120	130	137	147	157	167	180	192	205	217	230	26
	58.6	63.6	68.6	73.6	78.6	84.6	90.6	96.6	104	111	119	129	136	146	156	166	179	191	204	216	229	259
	54.1	59.1	64.1	69.1	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
	51.0	56.0	61.0	66.0	71.0	77.0	83.0	89.0	96	103	111	121	128	138	148	158	171	183	196	208	221	251
1.07	47.7	52.7	57.7	62.7	67.7	73.7	79.7	85.7	93	100	108	118	125	135	145	155	168	180	193	206	218	248
	45.8	50.8	55.8	60.8	65.8	71.8	77.8	83.8	91	98	106	116	123	133	143	153	166	178	191	203	216	246
	57.2	62.2	67.2	72.2	77.2	83.2	89.2	95.2	102	110	117	127	134	145	155	165	177	190	202	215	227	257
	55.2	60.2	65.2	70.2	75.2	81.2	87.2	93.2	101	108	116	126	133	143	153	163	176	188	201	213	226	256
	50.2	55.2	60.2	65.2	70.2	76.2	82.2	88.2	95	103	110	120	128	138	148	158	170	183	195	208	220	250
1.11	42.9	47.9	52.9	57.9	62.9	68.9	74.9	80.9	88	95	103	113	120	130	140	150	163	175	188	200	213	243
	.93	.94	.95	.96	.97	.97	.98	.99	1.00	1.01	1.02	1.03	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.09	1.10	1.12
1.12	59.2	64.2	69.2	74.2	79.2	85.2	91.2	97.2	104	112	119	129	137	147	157	167	179	192	204	217	229	259
	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
	48.4	53.4	58.4	63.4	68.4	74.4	80.4	86.4	93	101	108	118	126	136	146	156	168	181	193	206	218	248
	46.7	51.7	56.7	61.7	66.7	72.7	78.7	84.7	92	99	107	117	124	134	144	154	167	179	191	204	217	247
1.13	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
1.14	57.9	62.9	67.9	72.9	77.9	83.9	89.9	95.9	103	110	118	128	135	145	155	165	118	190	203	215	228	258
	56.4	61.4	66.4	71.4	76.4	82.4	88.4	94.4	101	109	116	126	134	144	154	164	177	189	201	214	226	256
	54.9	59.9	64.9	69.9	74.9	80.9	86.9	92.9	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.17	43.8	48.8	53.8	58.8	63.8	69.8	75.8	81.8	89	96	104	114	121	131	141	151	164	176	189	201	214	244
	50.9	55.9	60.9	65.9	70.9	76.9	82.9	88.9	96	103	111	121	128	138	148	158	171	183	196	208	221	251
	49.2	54.2	59.2	64.2	69.2	75.2	81.2	87.2	94	102	109	119	127	137	147	157	169	182	194	207	219	249
1.18	47.5	52.5	57.5	62.5	67.5	73.5	79.5	85.5	92	100	107	117	125	135	145	155	167	180	192	205	217	247
	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.19	58.4	63.4	68.4	73.4	78.4	84.4	90.4	96.4	103	111	118	128	136	146	156	166	178	191	203	216	228	258
	54.1	59.1	64.1	69.1	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
1.21	36.9	41.9	46.9	51.9	56.9	62.9	68.9	74.9	82	89	97	107	114	124	134	144	157	169	182	194	207	237
	57.1	62.1	67.1	72.1	77.1	83.1	89.1	95.1	102	110	117	127	135	145	155	165	177	190	202	215	227	257
1.22	55.6	60.6	65.6	70.6	75.6	81.6	87.6	93.6	101	108	116	126	133	143	153	163	176	186	201	213	226	256
	44.8	49.8	54.8	59.8	64.8	70.8	76.8	82.8	90	97	105	115	122	132	142	152	165	177	190	202	215	244
1.25	51.7	56.7	61.7	66.7	71.7	77.7	83.7	89.7	97	104	112	122	129	139	149	159	172	184	197	209	222	252
	50.0	55.0	60.0	65.0	70.0	76.0	82.0	88.0	95	102	110	120	127	137	147	157	170	182	195	207	220	250
	48.2	53.2	58.2	63.2	68.2	74.2	80.2	86.2	93	101	108	118	126	136	146	156	168	181	193	206	218	248
1.27	53.3	58.3	63.3	68.3	73.3	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	212	223	253
	57.6	62.6	67.6	72.6	77.6	83.6	89.6	95.6	103	110	118	128	135	145	155	165	178	190	203	21	228	258
1.29	56.3	61.3	66.3	71.3	76.3	82.3	88.3	94.3	101	109	116	126	134	144	154	164	176	189	201	214	226	256
	54.8	59.8	64.8	69.8	74.8	80.8	86.8	92.8	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.31	45.5	50.5	55.5	60.5	65.5	71.5	77.5	83.5	91	98	106	116	123	133	143	153	166	178	191	203	216	245
	43.2	48.2	53.2	58.2	63.2	69.2	75.2	81.2	87.2	94	101	109	119	126	136	146	156	169	182	194	207	237
1.33	50.7	55.7	60.7	65.7	70.7	76.7	82.7	88.7	96	103	111	121	128	138	148	158	171	183	196	208	221	251
	52.5	57.5	62.5	67.5	72.5	78.5	84.5	90.5	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.34	38.7	43.7	48.7	53.7	58.7	64.7	70.7	76.7	84	91	99	109	116	126	136	146	159	171	184	196	209	239
	.92	.93	.94	.95	.96	.97	.98	.98	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.06	1.07	1.08	1.09	1.10	1.11

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

8V

D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance							
	Outside Diameter		Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	8VX 1000	8VX 1060	8VX 1120	8VX 1180	8VX 1250	8VX 1320	8VX 1400	8VX 1500
	Driver	Driven														
1.36	14.0	19.0	1285	69.0	851	57.3	639	46.9	24.0	27.0	30.0	33.0	36.5	40.0	44.0	49.0
1.37	12.5	17.0	1281	58.3	849	47.5	637	38.7	26.7	29.8	32.8	35.8	39.3	42.8	46.8	51.8
	13.2	18.0	1278	63.5	847	52.2	635	42.5	25.4	28.4	31.4	34.4	37.9	41.4	45.4	50.5
1.38	18.0	24.8	...	...	839	81.0	630	67.6	...	...	...	25.2	28.7	32.2	36.2	41.2
1.41	16.0	22.4	...	...	826	69.9	619	57.6	...	...	25.7	28.7	32.2	35.7	39.7	44.7
	15.0	21.2	...	...	818	63.9	613	52.4	...	24.4	27.4	30.4	33.9	37.5	41.5	46.5
1.42	21.2	30.0	...	...	817	96.7	613	82.7	...	...	...	...	...	...	29.5	34.5
	14.0	20.0	1220	69.5	808	57.7	606	47.1	23.1	26.1	29.2	32.2	35.7	39.2	43.2	48.2
1.43	24.8	35.5	...	...	...	...	606	97.6	...	...	...	...	...	...	...	...
	12.5	18.0	1209	58.8	802	47.8	601	38.9	25.9	28.9	31.9	34.9	38.5	42.0	46.0	51.0
1.45	13.2	19.0	1210	64.0	802	52.5	602	42.8	24.6	27.6	30.6	33.6	37.1	40.6	44.6	49.6
	14.6	17.0	24.8	...	...	792	75.9	594	62.9	...	...	25.9	29.4	32.9	37.0	42.0
1.50	15.0	22.4	...	...	773	64.2	580	52.6	...	23.3	26.4	29.4	32.9	36.5	40.5	45.5
1.51	20.0	30.0	...	...	771	91.5	578	77.5	...	...	...	...	...	...	30.3	35.4
1.52	13.2	20.0	1149	64.4	762	52.7	571	43.0	23.7	26.7	29.7	32.8	36.3	39.8	43.8	48.8
	14.0	21.2	1150	69.9	762	57.9	572	47.3	22.1	25.1	28.1	31.2	34.7	38.2	42.2	47.2
1.53	12.5	19.0	1145	59.2	759	48.2	569	39.1	25.1	28.1	31.1	34.1	37.6	41.1	45.2	50.2
1.56	16.0	24.8	...	...	745	70.4	559	58.0	...	...	...	26.6	30.1	33.7	37.7	42.7
	19.0	30.0	...	...	732	86.9	549	72.9	...	...	...	...	...	...	31.0	36.1
1.59	22.4	35.5	...	...	...	...	547	88.3	...	...	...	...	...	...	...	...
	12.5	20.0	1087	59.5	721	48.3	540	39.3	24.2	27.2	30.3	33.3	36.8	40.3	44.3	49.3
1.61	14.0	22.4	1088	70.2	721	58.2	541	47.5	...	24.1	27.1	30.1	33.7	37.2	41.2	46.2
	13.2	21.2	1083	64.7	718	53.0	539	43.2	22.6	25.7	28.7	31.7	35.3	38.8	42.8	47.8
1.62	24.8	40.0	...	...	...	...	538	98.0	...	...	...	...	...	...	...	...
1.66	15.0	24.8	...	...	698	64.6	523	52.9	...	...	24.2	27.3	30.9	34.4	38.4	43.5
ARC-LENGTH CORRECTION FACTOR →									.83	.84	.85	.86	.87	.88	.89	.91
1.67	18.0	30.0	...	...	693	81.9	520	68.2	...	...	...	...	...	27.7	31.7	36.8
1.68	21.2	35.5	...	...	690	97.4	518	83.2	...	...	...	...	...	...	...	...
	12.5	21.2	1025	59.7	679	48.4	510	39.4	23.1	26.2	29.2	32.3	35.8	39.3	43.3	48.3
1.71	13.2	22.4	1025	65.0	679	53.1	509	43.3	21.6	24.6	27.7	30.7	34.2	37.8	41.8	46.8
	17.0	30.0	...	...	654	76.5	490	63.4	...	...	...	...	...	28.4	32.5	37.5
1.78	14.0	24.8	982	70.6	651	58.4	488	47.7	...	...	24.9	28.0	31.6	35.1	39.2	44.2
	20.0	35.5	...	...	651	92.1	488	77.9	...	...	...	...	...	...	...	...
1.79	22.4	40.0	...	...	...	...	485	88.5	...	...	...	...	...	...	...	...
	12.5	22.4	970	59.9	643	48.6	482	39.5	22.0	25.1	28.2	31.2	34.7	38.3	42.3	47.3
1.80	24.8	44.5	...	...	...	...	483	98.3	...	...	...	...	...	...	...	...
	19.0	35.5	...	...	618	87.3	463	73.2	...	...	...	...	...	...	...	31.1
1.89	13.2	24.8	925	65.3	613	53.3	460	43.4	...	...	25.5	28.6	32.1	35.7	39.7	44.8
	16.0	30.0	...	...	615	70.9	461	58.4	...	...	...	...	...	29.0	33.1	38.2
1.90	21.2	40.0	...	...	612	97.6	459	83.4	...	...	...	...	...	...	...	...
1.98	18.0	35.5	...	...	585	82.2	439	68.5	...	...	...	...	...	...	...	31.8
2.00	12.5	24.8	875	60.2	580	48.7	435	39.6	...	22.9	26.0	29.1	32.6	36.2	40.2	45.3
	22.4	44.5	...	...	...	...	436	88.7	...	...	...	...	...	...	...	...
2.01	15.0	30.0	...	...	576	64.9	432	53.2	...	...	...	...	26.1	29.7	33.8	38.9
	20.0	40.0	...	...	577	92.3	433	78.0	...	...	...	...	...	...	...	...
2.10	17.0	35.5	...	...	552	76.8	414	63.6	...	...	...	...	...	...	...	32.4
2.11	21.2	44.5	...	...	550	97.8	412	83.5	...	...	...	...	...	...	...	...
2.12	19.0	40.0	...	...	548	87.5	411	73.4	...	...	...	...	...	...	...	...
2.15	24.8	53.0	...	...	...	...	405	98.5	...	...	...	...	...	...	...	...
2.16	14.0	30.0	810	71.1	537	58.7	403	47.9	...	...	...	...	26.7	30.4	34.5	39.6
2.23	16.0	35.5	...	...	519	71.1	389	58.5	...	...	...	...	...	...	...	33.1
	18.0	40.0	...	...	519	82.3	389	68.6	...	...	...	...	...	...	...	...
2.24	20.0	44.5	...	...	518	92.4	389	78.1	...	...	...	...	...	...	...	...
	13.2	30.0	763	65.6	506	53.6	380	43.6	...	...	...	...	27.3	30.9	35.1	40.2
2.36	19.0	44.5	...	...	492	87.6	369	73.4	...	...	...	...	...	...	...	...
2.37	17.0	40.9	...	...	490	76.9	367	63.6	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									.80	.80	.81	.81	.82	.83	.85	.87

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																					
	8V 1600	8V 1700	8V 1800	8V 1900	8V 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
1.36	54.0	59.0	64.0	69.0	74.1	80.1	86.1	92.1	99	107	114	124	132	142	152	162	174	187	199	212	224	254
1.37	56.8	61.8	66.8	71.8	76.8	82.8	88.8	94.8	102	109	117	127	134	144	154	164	177	189	202	214	227	257
1.38	55.5	60.5	65.5	70.5	75.5	81.5	87.5	93.5	101	108	115	125	133	143	153	163	175	186	200	213	225	255
1.39	46.3	51.3	56.3	61.3	66.3	72.3	78.3	84.3	91	99	106	116	124	134	144	154	166	179	191	204	216	246
1.41	49.8	54.8	59.8	64.8	69.8	75.8	81.8	87.8	95	102	110	120	127	137	147	157	170	182	195	207	220	250
1.42	51.5	56.5	61.5	66.5	71.5	77.5	83.5	89.5	97	104	111	121	129	139	149	159	172	184	197	209	222	252
1.43	39.6	44.6	49.6	54.6	59.6	65.7	71.7	77.7	85	92	100	110	117	127	137	147	160	172	185	197	210	240
1.43	53.2	58.2	63.2	68.2	73.2	79.3	85.3	91.3	98	106	113	123	131	141	151	161	173	186	198	211	223	253
1.45	56.0	61.0	66.0	71.0	76.0	82.0	88.0	94.0	101	108	116	126	133	143	153	163	176	188	201	213	226	256
1.46	54.6	59.7	64.7	69.7	74.7	80.7	86.7	92.7	100	107	115	125	132	142	152	162	175	187	200	212	225	255
1.46	47.0	52.0	57.0	62.0	67.1	73.1	79.1	85.1	92	100	107	117	125	135	145	155	167	180	192	205	217	247
1.50	50.5	55.5	60.5	65.5	70.5	76.6	82.6	88.6	96	103	111	121	128	138	148	158	171	183	196	208	221	251
1.51	40.4	45.5	50.5	55.5	60.5	66.6	72.6	78.6	86	93	101	111	118	128	138	148	161	173	186	198	211	241
1.52	53.8	58.8	63.8	68.9	73.9	79.9	85.9	91.9	99	106	114	124	131	141	151	161	174	186	199	211	224	254
1.52	52.2	57.3	62.3	67.3	72.3	78.3	84.3	90.3	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.53	55.2	60.2	65.2	70.2	75.2	81.2	87.2	93.2	100	108	115	125	133	143	153	163	175	188	200	213	225	255
1.56	47.8	52.8	57.8	62.8	67.8	73.8	79.8	85.8	93	100	108	118	125	135	145	155	168	180	193	205	218	248
1.59	41.1	46.2	51.2	56.2	61.3	67.3	73.3	79.3	86	94	101	111	119	129	139	149	161	174	186	199	211	241
1.59	33.9	39.0	44.0	49.1	54.1	60.2	66.2	72.2	79	87	94	104	111	122	132	142	154	167	179	192	204	234
1.61	54.4	59.4	64.4	69.4	74.4	80.4	86.4	92.4	99	107	114	124	131	142	151	162	174	187	199	212	224	254
1.61	51.3	56.3	61.3	66.3	71.3	77.3	83.3	89.3	96	104	111	121	129	139	149	159	171	184	196	209	221	251
1.62	52.8	57.9	62.9	67.9	72.9	78.9	84.9	90.9	98	105	113	123	130	140	150	160	173	185	198	210	223	253
1.66	48.5	53.5	58.5	63.6	68.6	74.6	80.6	86.6	94	101	109	119	126	136	146	156	169	181	194	206	219	249
1.67	.92	.93	.94	.95	.95	.96	.97	.98	.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.10	1.11
1.67	41.9	46.9	52.0	57.0	62.0	68.0	74.1	80.1	87	95	102	112	120	130	140	150	162	175	187	200	212	242
1.68	34.7	39.8	44.9	50.0	55.0	61.0	67.1	73.1	80	88	95	105	113	123	133	143	155	168	180	193	205	235
1.71	51.8	56.9	61.9	66.9	71.9	77.9	83.9	89.9	97	104	112	122	129	139	149	159	172	184	197	209	222	252
1.77	42.6	47.7	52.7	57.7	62.8	68.8	74.8	80.8	88	95	103	113	120	130	140	150	163	175	188	200	213	243
1.78	49.2	54.3	59.3	64.3	69.3	75.3	81.3	87.4	94	102	109	119	127	137	147	157	169	182	194	207	219	249
1.78	35.6	40.7	45.8	50.8	55.9	61.9	68.0	74.0	81	89	96	106	114	124	134	144	156	169	181	194	206	236
1.79	52.4	57.4	62.4	67.4	72.4	78.4	84.4	90.4	97	105	112	122	130	140	150	160	172	185	197	210	222	252
1.80	36.3	41.4	46.5	51.5	56.6	62.7	68.7	74.7	82	89	97	107	114	124	134	144	157	169	182	194	207	237
1.88	49.8	54.8	59.9	64.9	69.9	75.9	81.9	88.0	95	102	110	120	127	137	147	157	170	183	195	208	220	250
1.89	43.3	48.4	53.4	58.5	63.5	69.5	75.5	81.6	89	96	104	114	121	131	141	151	164	176	189	201	214	244
1.90	38.7	43.7	48.7	53.7	58.7	64.7	70.7	76.7	84	91	101	109	119	129	139	152	164	177	189	202	214	244
1.98	36.9	42.1	47.2	52.2	57.3	63.4	69.4	75.5	82	90	98	108	115	125	135	145	158	170	183	195	208	238
2.00	50.3	55.4	60.4	65.4	70.4	76.5	82.5	88.5	95	103	111	120	128	138	148	158	171	183	196	208	221	251
2.00	39.9	44.9	49.9	54.9	59.9	65.9	71.9	77.9	85	92	100	110	117	127	137	147	160	172	185	197	210	240
2.01	44.0	49.1	54.1	59.2	64.2	70.3	76.3	82.3	89	97	104	114	122	132	142	152	164	177	189	202	214	244
2.01	37.6	42.8	47.9	53.0	58.0	64.1	70.2	76.2	83	91	98	108	116	126	136	146	158	171	183	196	209	239
2.11	36.5	41.7	46.8	51.9	57.0	63.1	69.1	75.1	82	90	98	108	116	126	136	146	158	171	183	196	209	239
2.11	...	36.5	41.8	47.0	53.1	59.3	65.4	72	80	88	98	108	116	126	136	146	158	171	183	196	209	239
2.12	...	37.2	42.4	47.5	52.6	58.7	64.8	70.9	78	85	93	103	111	121	131	141	153	166	178	191	203	233
2.15	...	...	...	...	42.6	48.9	55.1	62	70	78	88	95	105	115	126	136	151	163	176	188	218	248
2.16	44.7	49.8	54.9	59.9	64.9	71.0	77.1	83.1	90	98	105	115	123	133	143	153	165	178	190	203	215	245
2.23	38.3	43.5	48.6	53.7	58.7	64.8	70.9	76.9	84	91	99	109	117	127	137	147	159	172	184	197	209	239
2.24	...	37.8	43.0	48.2	53.3	59.4	65.5	71.6	79	86	94	104	111	121	131	141	154	167	179	192	204	234
2.24	...	...	37.3	42.6	47.8	54.0	60.1	66.2	73	81	89	99	106	116	126	136	149	161	174	186	199	229
2.29	45.3	50.4	55.4	60.5	65.5	71.6	77.6	83.6	91	98	106	116	123	133	143	153	166	178	191	203	216	246
2.36	...	...	38.0	43.2	48.4	54.6	60.8	66.9	74	82	89	99	107	117	127	137	150	162	175	187	200	230
2.37	33.2	38.5	43.7	48.9	54.0	60.1	66.2	72.3	79	87	95	105	112	122	132	142	155	167	180	192	205	235
	.89	.90	.91	.92	.93	.94	.96	.96	.98	.99	1.00	1.01	1.02	1.03	1.04	1.04	1.05	1.06	1.07	1.08	1.09	1.11

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

8V

D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Stock Sheaves (4, 5, 6, 8, 10, 12 Grooves)		1750 RPM Driver		1160 RPM Driver		870 RPM Driver		Belt Number and Approx. Center Distance							
	Outside Diameter		Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	Driven RPM	HP Per Belt 8V	8VX 1250	8VX 1320	8VX 1400	8VX 1500	8VX 1600	8VX 1700	8VX 1800	8VX 1900
	Driver	Driven														
2.38	22.4	53.0	...	...	...	...	366	88.8	...	...	...	...	...	...	...	...
2.39	15.0	35.5	...	...	486	65.1	365	53	...	...	...	33.8	39.0	44.1	49.3	54.4
2.42	12.5	30.0	722	60.5	479	48.9	359	39.8	27.7	31.4	35.5	40.7	45.8	50.9	55.9	61.0
2.49	18.0	44.5	...	...	466	82.4	350	68.6	...	...	...	...	...	...	38.6	43.9
2.51	21.2	53.0	...	...	461	97.9	346	83.6	...	...	...	...	...	...	...	...
2.52	16.0	40.0	...	...	461	71.2	345	58.6	...	...	...	...	33.9	39.2	44.4	49.6
2.55	24.8	63.0	...	...	...	...	341	98.6	...	...	...	...	...	...	...	...
2.56	14.0	35.5	684	71.3	453	58.9	340	48.0	...	...	29.1	34.4	39.7	44.8	50.0	55.1
2.64	17.0	44.5	...	...	440	77.0	330	63.7	...	...	...	...	...	...	39.3	44.6
2.67	20.0	53.0	...	...	435	92.5	326	78.2	...	...	...	...	...	...	...	...
2.69	15.0	40.0	...	...	431	65.2	324	53.4	...	...	...	...	34.5	39.8	45.1	50.2
2.72	13.2	35.5	644	65	427	53.7	320	43.7	...	...	29.7	35.0	40.2	45.4	50.5	55.6
2.80	16.0	44.5	...	...	414	71	310	58.6	...	...	...	...	...	34.5	39.9	45.2
2.81	19.0	53.0	...	...	413	87.7	310	73.5	...	...	...	...	...	...	...	...
2.83	22.4	63.0	...	...	...	...	308	88.9	...	...	...	...	...	...	...	...
2.87	12.5	35.5	610	60	404	49	303	39.8	...	...	30.1	35.4	40.7	45.9	51.0	56.1
2.88	14.0	40.0	607	71.4	402	58	302	48.1	...	...	...	...	35.2	40.5	45.7	50.9
2.88	24.8	71.0	...	...	...	...	302	98.6	...	...	...	...	...	...	...	...
2.97	18.0	53.0	...	...	391	82	293	68.7	...	...	...	...	...	...	...	...
2.99	15.0	44.5	...	...	388	65.2	291	53.4	...	...	...	...	...	35.2	40.6	45.9
ARC-LENGTH CORRECTION FACTOR →									.80	.81	.82	.83	.86	.87	.88	.90
2.99	21.2	63.0	...	...	388	98.0	291	83.7	...	...	...	...	...	...	...	...
3.06	13.2	40.0	572	65.9	379	53.7	284	43.7	...	...	...	30.2	35.7	41.0	46.3	51.5
3.14	17.0	53.0	...	...	369	77.0	277	63.7	...	...	...	...	...	...	...	...
3.17	20.0	63.0	...	...	366	92.6	274	78.2	...	...	...	...	...	...	...	...
3.19	22.4	71.0	...	...	...	...	273	88.9	...	...	...	...	...	...	...	...
3.21	14.0	44.5	545	71.4	361	58.9	271	48.1	...	...	...	...	...	35.8	41.2	46.6
3.24	12.5	40.0	541	60.7	358	49.0	269	39.9	...	...	...	30.7	36.2	41.5	46.7	51.9
3.34	16.0	53.0	...	...	347	71.3	260	58.7	...	...	...	...	...	...	...	...
3.34	19.0	63.0	...	...	347	87.7	260	73.6	...	...	...	...	...	...	...	...
3.37	21.2	71.0	...	...	344	98.0	258	83.7	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	...	...	.78	.82	.85	.87	.88
3.41	13.2	44.5	514	65.9	340	53.8	255	43.7	...	...	...	...	...	36.3	41.7	47.1
3.53	18.0	63.0	...	...	329	82.6	247	68.7	...	...	...	...	...	...	...	...
3.57	15.0	53.0	...	...	325	65.3	244	53.5	...	...	...	...	...	...	...	...
3.58	20.0	71.0	...	...	324	92.6	243	78.3	...	...	...	...	...	...	...	...
3.60	12.5	44.5	486	60.7	322	49.1	242	39.9	...	...	...	...	...	36.7	42.2	47.5
ARC-LENGTH CORRECTION FACTOR →									...	...	...	...	...	.81	.84	.88
3.74	17.0	63.0	...	...	310	77.1	233	63.8	...	...	...	...	...	...	...	...
3.77	19.0	71.0	...	...	308	87.8	231	73.6	...	...	...	...	...	...	...	...
3.83	14.0	53.0	457	71.5	303	59.0	227	48.1	...	...	...	...	...	...	...	37.3
3.97	16.0	63.0	...	...	292	71.3	219	58.7	...	...	...	...	...	...	...	...
3.98	18.0	71.0	...	...	292	82.6	219	68.8	...	...	...	...	...	...	...	...
4.06	13.2	53.0	431	66.0	286	53.8	214	43.8	...	...	...	...	...	...	...	...
4.21	17.0	71.0	...	...	275	77.1	206	63.8	...	...	...	...	...	...	...	...
4.24	15.0	63.0	...	...	273	65.1	205	53.5	...	...	...	...	...	...	...	...
4.29	12.5	53.0	408	60.8	270	49.1	203	39.9	...	...	...	...	...	...	...	38.2
4.48	16.0	71.0	...	...	259	71.3	194	58.7	...	...	...	...	...	...	...	...
4.55	14.0	63.0	385	71.5	255	59.0	191	48.1	...	...	...	...	...	...	...	...
4.78	15.0	71.0	...	...	242	65.3	182	53.5	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	...	...	...	...	...	...	.77
4.83	13.2	63.0	362	66.0	240	53.8	180	43.8	...	...	...	...	...	...	...	...
5.11	12.5	63.0	343	60.8	227	49.1	170	39.9	...	...	...	...	...	...	...	...
5.13	14.0	71.0	341	71.5	226	59.0	170	48.1	...	...	...	...	...	...	...	...
5.45	13.2	71.0	321	66.0	213	53.8	160	43.8	...	...	...	...	...	...	...	...
5.76	12.5	71.0	304	60.8	202	49.1	151	39.9	...	...	...	...	...	...	...	...
ARC-LENGTH CORRECTION FACTOR →									...	...	...	...	...	...	...	...

NOTES: Arc & Length Factors are approximate values
Refer to Selection Procedure for more precise values

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



8V D-V Wedge & POLYBAND Belts

STOCK DRIVE SELECTIONS

Speed Ratio	Belt Number and Approx. Center Distance																	
	8VX 2000	8V 2120	8V 2240	8V 2360	8V 2500	8V 2650	8V 2800	8V 3000	8V 3150	8V 3350	8V 3550	8V 3750	8V 4000	8V 4250	8V 4500	8V 4750	8V 5000	8V 5600
2.38	...	44.1	50.5	56.7	64	72	79	89	97	107	117	127	140	152	165	178	190	220
2.39	59.5	65.5	71.6	77.7	85	92	100	110	117	127	137	147	160	172	185	197	210	240
2.42	66.0	72.1	78.1	84.2	91	99	106	116	124	134	144	154	166	179	191	204	216	246
2.49	49.1	55.3	61.5	67.6	75	82	90	100	108	118	128	138	150	163	175	188	200	230
2.51	...	44.9	51.3	57.5	65	72	80	90	98	108	118	128	141	153	166	178	191	221
2.52	54.7	60.8	66.9	73.0	80	88	95	105	113	123	133	143	156	168	181	193	206	236
2.55	...	...	...	...	53	60	68	79	86	97	107	117	130	142	156	167	180	210
2.56	60.2	66.3	72.3	78.4	85	93	100	111	118	128	138	148	161	173	186	198	211	241
2.64	49.8	56.0	62.2	68.3	75	83	91	101	108	118	128	138	151	164	176	189	201	231
2.67	...	45.7	52.1	58.3	66	73	81	91	99	109	119	129	142	154	167	179	192	222
2.69	55.4	61.5	67.6	73.7	81	88	96	106	114	124	134	144	156	168	181	194	206	236
2.72	60.7	66.8	72.9	79.0	86	94	101	111	119	129	139	149	161	174	186	199	211	241
2.80	50.5	56.7	62.9	69.0	76	84	91	101	109	119	129	139	152	164	177	189	202	232
2.81	39.8	46.3	52.7	59.0	66	74	82	92	99	110	120	130	142	155	168	180	193	223
2.83	...	...	...	46.5	54	62	70	80	88	98	108	119	131	144	157	169	182	212
2.87	61.2	67.3	73.4	79.5	86	94	102	112	119	129	139	149	162	174	187	199	212	242
2.88	56.1	62.2	68.4	74.5	82	89	97	107	114	124	134	144	157	170	182	195	207	237
...	...	...	...	...	...	52	60	71	79	89	100	110	123	135	148	161	173	203
2.97	40.5	47.0	53.4	59.7	67	75	82	93	100	110	120	131	143	156	168	181	193	224
2.99	51.1	57.4	63.6	69.7	77	84	92	102	110	120	130	140	153	165	178	190	203	233
	.92	.93	.94	.95	.96	.97	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09	1.10
2.99	...	...	...	47.2	55	63	71	81	89	99	109	119	132	145	157	170	183	213
3.06	56.6	62.8	68.9	75.0	82	90	97	107	115	125	135	145	158	170	183	195	208	238
3.14	41.4	47.6	54.0	60.3	68	75	83	93	101	111	121	131	144	156	169	182	194	224
3.17	...	...	...	48.0	56	64	72	82	90	100	110	120	133	146	158	171	184	214
3.19	...	...	...	...	...	54	62	73	81	91	101	111	124	137	150	162	175	205
3.21	51.8	58.1	64.2	70.4	78	85	93	103	111	121	131	141	153	166	178	191	203	234
3.24	57.1	63.3	69.4	75.5	83	90	98	108	115	125	136	146	158	171	183	196	208	233
3.34	41.7	48.3	54.7	61.0	68	76	84	94	102	112	122	132	145	157	170	182	195	225
...	...	...	...	48.6	56	64	72	83	90	101	111	121	134	146	159	172	184	214
3.37	...	...	...	...	...	54	63	73	81	92	102	112	125	138	150	163	176	206
	.90	.91	.93	.94	.95	.97	.96	.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10
3.41	52.3	58.6	64.8	71.0	78	86	93	104	111	121	131	141	154	166	179	191	204	234
3.53	...	...	...	49.2	57	65	73	83	91	101	112	122	134	147	160	172	185	215
3.57	42.3	48.9	55.3	61.7	69	77	84	95	102	112	123	133	145	158	170	183	196	226
3.58	...	...	...	...	...	55	63	74	82	92	103	113	126	139	151	164	177	207
3.60	52.8	59.1	65.3	71.4	79	86	94	104	112	122	132	142	154	167	179	192	204	235
	.88	.90	.91	.93	.94	.96	.97	.98	.99	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.10
3.74	...	...	...	49.9	58	66	74	84	92	102	112	122	135	148	160	173	186	216
3.77	...	...	...	...	...	56	64	75	83	93	104	114	127	139	152	165	177	208
3.83	43.0	49.5	56.0	62.3	70	77	85	95	103	113	123	133	146	159	171	184	196	226
3.97	...	...	43.6	50.5	58	66	74	85	92	103	113	123	135	149	161	174	186	217
3.98	...	...	...	...	...	56	65	75	83	94	104	114	127	140	153	165	178	208
4.06	43.4	50.1	56.5	62.9	70	78	86	96	104	114	124	134	147	159	172	184	197	227
4.21	...	...	...	...	48	57	65	76	84	94	105	115	128	141	153	166	179	209
4.24	...	...	44.2	51.1	59	67	75	85	93	103	114	124	137	149	162	175	187	217
4.29	43.9	50.5	57.0	63.3	71	78	86	96	104	114	124	134	147	160	172	185	197	228
4.48	...	...	...	...	49	58	66	77	85	95	106	116	129	141	154	167	180	210
4.55	...	...	44.8	51.7	59	68	76	86	94	104	114	125	137	150	163	175	188	218
4.78	...	...	...	...	49	58	67	77	85	96	106	117	129	142	155	168	180	211
	.81	.85	.87	.89	.91	.93	.95	.96	.98	.99	1.00	1.01	1.03	1.04	1.05	1.06	1.07	1.09
4.83	...	...	45.3	52.2	60	68	76	87	94	105	115	125	138	151	163	176	188	219
5.11	...	...	45.7	52.6	60	69	76	87	95	105	115	126	138	151	164	176	189	219
5.13	...	...	...	...	50	59	67	78	86	96	107	117	130	143	156	168	181	211
5.45	...	...	...	...	51	59	68	79	86	97	107	118	131	143	156	169	182	2120
5.76	...	...	...	...	51	60	68	79	87	97	108	118	131	144	157	169	182	212
	...	...	.79	.80	.82	.84	.87	.91	.93	.95	.97	.98	1.00	1.02	1.03	1.04	1.05	1.08

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

3VX

BASIC HORSEPOWER RATINGS Δ

Faster Shaft RPM	Rated HP per belt for Small Sheave O.D. of:											
	2.2	2.65	2.8	3.0	3.15	3.35	3.65	4.12	4.5	4.75	5.0	
	3VX	3VX	3VX	3VX	3VX	3VX	3VX	3VX	3VX	3VX	3VX	3VX
575	.55	.83	.92	1.04	1.13	1.25	1.43	1.72	1.94	2.09	2.24	2.24
690	.64	.97	1.08	1.22	1.33	1.48	1.69	2.02	2.29	2.47	2.64	2.64
725	.66	1.01	1.13	1.28	1.39	1.54	1.77	2.12	2.40	2.58	2.76	2.76
870	.77	1.18	1.32	1.50	1.63	1.81	2.08	2.49	2.82	3.04	3.26	3.26
950	.83	1.28	1.42	1.62	1.77	1.96	2.25	2.70	3.06	3.29	3.52	3.52
1160	.98	1.52	1.69	1.93	2.10	2.34	2.68	3.22	3.65	3.93	4.21	4.21
1425	1.16	1.81	2.02	2.31	2.52	2.80	3.22	3.86	4.38	4.72	5.06	5.06
1750	1.37	2.15	2.41	2.75	3.01	3.34	3.85	4.63	5.25	5.65	6.06	6.06
2850	2.00	3.21	3.61	4.14	4.53	5.05	5.82	6.99	7.92	8.53	9.12	9.12
3450	2.30	3.74	4.21	4.82	5.28	5.89	6.78	8.15	9.21	9.90	10.6	10.6
100	.12	.18	.19	.22	.23	.26	.29	.35	.39	.42	.45	.45
200	.22	.33	.36	.41	.44	.48	.55	.66	.74	.80	.85	.85
300	.31	.47	.52	.58	.63	.70	.80	.95	1.07	1.16	1.24	1.24
400	.40	.60	.67	.75	.82	.91	1.03	1.24	1.40	1.50	1.61	1.61
500	.49	.73	.81	.92	1.00	1.11	1.27	1.51	1.84	1.97	2.13	2.13
600	.57	.86	.95	1.08	1.18	1.30	1.49	1.78	2.02	2.17	2.33	2.33
700	.65	.98	1.09	1.24	1.35	1.49	1.71	2.05	2.32	2.50	2.68	2.68
800	.72	1.10	1.23	1.39	1.52	1.68	1.93	2.31	2.62	2.82	3.02	3.02
900	.80	1.22	1.36	1.54	1.68	1.87	2.14	2.57	2.91	3.13	3.36	3.36
1000	.87	1.34	1.49	1.69	1.85	2.05	2.35	2.82	3.20	3.45	3.69	3.69
1100	.94	1.45	1.62	1.84	2.01	2.23	2.56	3.07	3.48	3.75	4.02	4.02
1200	1.01	1.56	1.74	1.99	2.17	2.41	2.76	3.32	3.76	4.05	4.34	4.34
1300	1.08	1.67	1.87	2.13	2.32	2.58	2.97	3.56	4.04	4.35	4.66	4.66
1400	1.14	1.78	1.99	2.27	2.48	2.75	3.17	3.80	4.32	4.65	4.98	4.98
1500	1.21	1.89	2.11	2.41	2.63	2.93	3.36	4.04	4.59	4.94	5.29	5.29
1600	1.27	1.99	2.23	2.55	2.78	3.09	3.56	4.28	4.85	5.23	5.60	5.60
1700	1.34	2.10	2.35	2.68	2.93	3.26	3.75	4.51	5.12	5.51	5.90	5.90
1800	1.40	2.20	2.47	2.82	3.08	3.43	3.94	4.74	5.38	5.79	6.21	6.21
1900	1.46	2.30	2.58	2.95	3.22	3.59	4.13	4.97	5.64	6.07	6.50	6.50
2000	1.52	2.40	2.70	3.08	3.37	3.75	4.32	5.19	5.89	6.34	6.79	6.79
2100	1.58	2.50	2.81	3.21	3.51	3.91	4.50	5.41	6.14	6.61	7.08	7.08
2200	1.64	2.60	2.92	3.34	3.65	4.07	4.68	5.63	6.39	6.88	7.37	7.37
2300	1.70	2.70	3.03	3.47	3.79	4.22	4.86	5.85	6.63	7.14	7.65	7.65
2400	1.75	2.80	3.14	3.59	3.93	4.38	5.04	6.06	6.88	7.40	7.92	7.92
2500	1.81	2.89	3.25	3.72	4.07	4.53	5.22	6.28	7.12	7.66	8.20	8.20
2600	1.87	2.98	3.35	3.84	4.20	4.68	5.39	6.48	7.35	7.91	8.47	8.47
2700	1.92	3.08	3.46	3.96	4.33	4.83	5.56	6.69	7.58	8.16	8.73	8.73
2800	1.97	3.17	3.56	4.08	4.47	4.98	5.73	6.89	7.81	8.40	8.99	8.99
2900	2.03	3.26	3.66	4.20	4.60	5.12	5.90	7.09	8.04	8.65	9.25	9.25
3000	2.08	3.35	3.76	4.31	4.72	5.26	6.06	7.29	8.26	8.88	9.50	9.50
3200	2.18	3.52	3.96	4.54	4.98	5.55	6.39	7.68	8.69	9.34	9.99	9.99
3400	2.28	3.69	4.16	4.77	5.22	5.82	6.71	8.05	9.11	9.79	10.5	10.5
3600	2.37	3.86	4.35	4.99	5.46	6.09	7.01	8.42	9.52	10.2	10.9	10.9
3800	2.47	4.02	4.53	5.20	5.70	6.35	7.31	8.77	9.91	10.6	11.3	11.3
4000	2.56	4.18	4.71	5.41	5.92	6.60	7.60	9.11	10.3	11.0	11.7	11.7
4200	2.64	4.33	4.89	5.61	6.15	6.85	7.88	9.44	10.6	11.4	12.1	12.1
4400	2.73	4.48	5.06	5.81	6.36	7.09	8.15	9.75	11.0	11.7	12.5	12.5
4600	2.81	4.63	5.22	6.00	6.57	7.32	8.41	10.0	11.3	12.1	12.8	12.8
4800	2.89	4.77	5.38	6.18	6.77	7.54	8.66	10.3	11.6	12.4	13.2	13.2
5000	2.96	4.90	5.53	6.36	6.96	7.75	8.90	10.6	11.9	12.7	13.5	13.5
5200	3.03	5.04	5.68	6.53	7.15	7.96	9.13	10.9	12.2	13.0	13.7	13.7
5400	3.10	5.16	5.83	6.69	7.33	8.15	9.35	11.1	12.4	13.2	14.0	14.0
5600	3.17	5.28	5.96	6.85	7.50	8.34	9.56	11.3	12.7	13.5	14.2	14.2
5800	3.23	5.40	6.10	7.00	7.66	8.52	9.76	11.5	12.9	13.7	14.4	14.4
6000	3.29	5.51	6.22	7.15	7.82	8.69	9.94	11.7	13.1	13.8	14.6	14.6
6200	3.35	5.62	6.34	7.28	7.97	8.85	10.1	11.9	13.2	14.0	14.7	14.7
6400	3.40	5.72	6.46	7.41	8.11	9.00	10.3	12.1	13.4	14.1	14.8	14.8
6600	3.45	5.82	6.57	7.54	8.24	9.14	10.4	12.2	13.5	14.2	14.9	14.9
6800	3.50	5.91	6.67	7.65	8.36	9.27	10.5	12.4	13.6	14.3	14.9	14.9
7000	3.54	5.99	6.77	7.76	8.48	9.40	10.7	12.5	13.7	14.4	15.5	15.5

Shaded areas indicate rim speeds exceeding 6500 FPM which may require special sheaves.

TOTAL RATING = rated HP + "additional HP" listed on opposite page.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



3VX BASIC HORSEPOWER RATINGS Δ

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:							Additional HP per Belt for Speed Ratio of: ‡								
	5.3	5.6	6.0	6.5	6.9	8.0	10.6	1.02 to 1.05	1.06 to 1.11	1.12 to 1.18	1.19 to 1.26	1.27 to 1.38	1.39 to 1.57	1.58 to 1.94	1.95 to 3.38	3.39 and up
	3VX	3VX	3VX	3VX	3VX	3VX	3VX									
575	2.41	2.59	2.82	3.11	3.34	3.97	5.42	.01	.02	.04	.06	.07	.09	.10	.11	.11
690	2.85	3.06	3.33	3.67	3.95	4.69	6.39	.01	.03	.05	.07	.09	.10	.11	.12	.13
725	2.98	3.20	3.49	3.84	4.13	4.90	6.69	.01	.03	.05	.07	.09	.11	.12	.13	.14
870	3.51	3.77	4.11	4.53	4.87	5.78	7.87	.01	.03	.06	.09	.11	.13	.14	.16	.17
950	3.80	4.08	4.45	4.91	5.27	6.25	8.51	.01	.04	.07	.10	.12	.14	.16	.17	.18
1160	4.55	4.88	5.32	5.87	6.30	7.47	10.1	.02	.05	.09	.12	.14	.17	.19	.21	.22
1425	5.46	5.86	6.38	7.03	7.55	8.94	12.0	.02	.06	.11	.15	.18	.21	.24	.26	.28
1750	6.53	7.01	7.63	8.40	9.01	10.6	14.2	.03	.07	.13	.18	.22	.25	.29	.31	.33
2850	9.82	10.5	11.4	12.5	13.3	15.5	19.6	.04	.12	.22	.30	.36	.42	.48	.52	.55
3450	11.4	12.1	13.1	14.3	15.2	17.3	20.8	.05	.15	.27	.36	.44	.51	.58	.63	.67
100	.48	.52	.56	.62	.67	.79	1.08	.00	.00	.01	.01	.01	.01	.02	.02	.02
200	.92	.98	1.07	1.18	1.27	1.50	2.05	.00	.01	.01	.01	.01	.02	.03	.03	.03
300	1.33	1.43	1.56	1.71	1.84	2.18	2.99	.00	.01	.02	.03	.03	.04	.05	.05	.05
400	1.73	1.86	2.03	2.23	2.40	2.85	3.89	.01	.02	.03	.04	.05	.06	.06	.07	.08
500	2.13	2.28	2.48	2.74	2.94	3.49	4.77	.01	.02	.03	.04	.05	.06	.07	.08	.09
600	2.51	2.69	2.93	3.23	3.47	4.13	5.63	.01	.02	.04	.06	.08	.09	.10	.11	.11
700	2.89	3.10	3.38	3.72	4.00	4.75	6.48	.01	.03	.05	.07	.09	.10	.12	.12	.13
800	3.26	3.50	3.81	4.20	4.51	5.36	7.30	.01	.03	.06	.08	.10	.12	.13	.14	.15
900	3.62	3.89	4.24	4.67	5.02	5.96	8.11	.01	.04	.07	.09	.11	.13	.15	.16	.17
1000	3.98	4.27	4.66	5.14	5.52	6.55	8.90	.01	.04	.08	.10	.12	.15	.17	.18	.19
1100	4.34	4.65	5.07	5.59	6.01	7.13	9.68	.02	.04	.08	.11	.14	.16	.19	.20	.21
1200	4.69	5.03	5.48	6.04	6.49	7.69	10.4	.02	.05	.09	.12	.15	.18	.20	.22	.23
1300	5.03	5.40	5.89	6.49	6.97	8.25	11.2	.02	.05	.10	.13	.16	.19	.22	.23	.25
1400	5.37	5.77	6.29	6.93	7.43	8.80	11.9	.02	.06	.11	.14	.18	.21	.23	.26	.27
1500	5.71	6.13	6.68	7.36	7.89	9.34	12.6	.02	.06	.11	.16	.19	.22	.25	.28	.29
1600	6.04	6.48	7.06	7.78	8.35	9.87	13.3	.02	.07	.12	.17	.20	.24	.27	.29	.31
1700	6.37	6.83	7.45	8.20	8.79	10.4	14.0	.02	.07	.13	.18	.21	.25	.29	.31	.33
1800	6.70	7.18	7.82	8.61	9.23	10.9	14.5	.03	.08	.13	.19	.23	.27	.30	.33	.34
1900	7.01	7.52	8.19	9.01	9.66	11.4	15.1	.03	.08	.14	.20	.25	.28	.32	.35	.37
2000	7.33	7.86	8.55	9.41	10.1	11.9	15.7	.03	.09	.15	.21	.25	.30	.33	.37	.39
2100	7.64	8.19	8.91	9.80	10.5	12.3	16.3	.03	.09	.16	.22	.27	.31	.35	.38	.40
2200	7.94	8.51	9.26	10.2	11.0	12.8	16.8	.03	.10	.17	.23	.28	.33	.37	.40	.43
2300	8.25	8.84	9.61	10.5	11.3	13.2	17.3	.03	.10	.18	.24	.29	.34	.39	.42	.45
2400	8.54	9.15	9.95	10.9	11.7	13.7	17.8	.03	.11	.19	.25	.30	.36	.40	.44	.47
2500	8.83	9.46	10.3	11.3	12.1	14.1	18.2	.04	.11	.19	.26	.32	.37	.42	.46	.48
2600	9.12	9.77	10.6	11.6	12.4	14.5	18.6	.04	.11	.20	.27	.33	.39	.44	.48	.50
2700	9.40	10.1	10.9	12.0	12.8	14.9	19.0	.04	.12	.21	.29	.35	.40	.46	.49	.52
2800	9.68	10.4	11.2	12.3	13.1	15.3	19.4	.04	.13	.21	.29	.36	.42	.47	.51	.54
2900	9.95	10.6	11.6	12.6	13.5	15.6	19.7	.04	.13	.22	.30	.37	.43	.49	.53	.56
3000	10.2	10.9	11.8	13.0	13.8	16.0	20.0	.04	.13	.23	.31	.38	.45	.50	.55	.58
3200	10.7	11.5	12.4	13.6	14.4	16.6	20.5	.05	.14	.24	.33	.40	.48	.54	.58	.62
3400	11.2	12.0	13.0	14.1	15.0	17.2	20.8	.05	.15	.26	.36	.43	.50	.57	.62	.66
3600	11.7	12.5	13.5	14.7	15.6	17.7	21.0	.06	.16	.28	.38	.46	.54	.61	.66	.69
3800	12.2	12.9	14.0	15.2	16.1	18.2	...	.06	.17	.29	.40	.48	.57	.64	.69	.74
4000	12.6	13.4	14.4	15.6	16.5	18.5	...	.06	.18	.31	.42	.51	.59	.67	.73	.77
4200	13.0	13.8	14.8	16.0	16.9	18.8	...	.07	.19	.32	.44	.54	.63	.71	.77	.82
4400	13.4	14.2	15.2	16.4	17.2	19.0	...	.07	.21	.34	.46	.56	.66	.74	.81	.85
4600	13.7	14.5	15.6	16.7	17.5	19.1	...	.07	.21	.36	.47	.58	.68	.77	.84	.89
4800	14.1	14.8	15.8	17.0	17.7	19.2	...	.08	.21	.37	.50	.61	.72	.81	.88	.93
5000	14.3	15.1	16.1	17.2	17.9	...	...	.08	.22	.39	.53	.64	.75	.83	.92	.97
5200	14.6	15.4	16.3	17.4	18.0	...	...	.08	.23	.40	.55	.66	.77	.87	.95	1.01
5400	14.8	15.6	16.5	17.4	18.0	...	...	.09	.24	.41	.57	.69	.81	.91	.99	1.05
5600	15.1	15.8	16.7	17.5	...	...	...	.09	.25	.44	.61	.73	.85	.94	1.05	1.11
5800	15.2	15.9	16.7	17.5	...	...	...	.09	.26	.45	.61	.74	.86	.97	1.06	1.13
6000	15.4	16.0	16.8	...	...	...	...	.10	.27	.47	.64	.78	.91	1.03	1.12	1.19
6200	15.5	16.1	16.8	...	...	...	...	.10	.28	.47	.66	.81	.94	1.06	1.16	1.21
6400	15.5	16.1	16.7	...	...	...	...	.10	.28	.49	.67	.81	.94	1.08	1.17	1.24
6600	15.6	16.1	...	...	...	...	...	.11	.29	.51	.69	.84	.99	1.11	1.18	1.29
6800	15.6	16.0	...	...	...	...	...	.11	.30	.52	.72	.87	1.01	1.14	1.25	1.29
7000	15.5	...	...	...	...	...	...	.11	.31	.52	.74	.89	1.04	1.18	1.29	1.36

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

5VX

5V

BASIC HORSEPOWER RATINGS Δ

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:																											
	4.4		4.65		4.9		5.5		6.3		6.7		7.1		7.5		8.0		8.5		9.0		9.25		9.75		10.3	
	5VX										5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V
435	2.57	2.90	3.22	3.99	5.01	5.52	6.03	4.99	6.53	5.48	7.16	6.10	7.78	6.72	8.40	7.33	8.71	7.64	9.32	8.25	10.0	8.91						
485	2.82	3.18	3.54	4.40	5.53	6.09	6.65	5.48	7.20	6.03	7.90	6.71	8.58	7.39	9.27	8.07	9.61	8.41	10.3	9.08	11.0	9.81						
585	3.27	3.69	4.11	5.11	6.43	7.09	7.87	6.44	8.53	7.09	9.35	7.91	10.2	8.71	11.0	9.51	11.4	9.91	12.2	10.7	13.1	11.6						
690	3.82	4.32	4.81	6.00	7.57	8.34	9.12	7.42	9.88	8.17	10.8	9.12	11.8	10.0	12.7	11.0	13.2	11.4	14.1	12.4	15.2	13.4						
725	3.98	4.50	5.02	6.27	7.90	8.72	9.53	7.74	10.3	8.53	11.3	9.51	12.3	10.5	13.3	11.4	13.8	11.9	14.8	12.9	15.8	13.9						
870	4.64	5.26	5.88	7.35	9.28	10.24	11.2	9.02	12.1	9.95	13.3	11.1	14.5	12.2	15.7	13.4	16.2	13.9	17.4	15.1	18.6	16.3						
950	5.00	5.67	6.34	7.93	10.03	11.07	12.1	9.70	13.1	10.7	14.4	11.9	15.6	13.2	16.9	14.4	17.6	15.0	18.8	16.2	20.1	17.5						
1160	5.90	6.71	7.51	9.42	11.93	13.17	14.4	11.4	15.6	12.6	17.1	14.1	18.6	15.5	20.1	16.9	20.9	17.7	22.3	19.0	23.9	20.6						
1425	6.98	7.95	8.92	11.21	14.23	15.71	17.2	13.4	18.6	14.8	20.4	16.5	22.2	18.2	24.0	19.9	24.9	20.7	26.6	22.3	28.5	24.1						
1750	8.23	9.40	10.55	13.30	16.89	18.66	20.4	15.6	22.1	17.2	24.3	19.2	26.3	21.1	28.4	23.0	29.4	23.9	31.4	25.8	33.6	27.7						
2850	11.86	13.62	15.35	19.42	24.64	27.15	29.6	20.5	32.0	22.5	34.8	24.9	37.6	27.0	40.2	29.0	41.5	29.9	43.9	31.6	46.5	33.2						
3450	13.45	15.47	17.46	22.29	27.93	30.69	33.3	21.3	35.9	23.2	38.9	25.3	41.7	27.1	44.3	28.6	45.5	29.2	47.7	30.1	49.9	30.7						
100	0.71	0.79	0.87	1.07	1.33	1.45	1.58	1.36	1.71	1.48	1.87	1.64	2.02	1.80	2.18	1.96	2.26	2.04	2.42	2.19	2.59	2.36						
200	1.31	1.47	1.62	2.00	2.49	2.73	2.98	2.52	3.2	2.76	3.53	3.06	3.83	3.36	4.13	3.66	4.28	3.81	4.58	4.11	4.91	4.44						
300	1.86	2.09	2.32	2.87	3.59	3.95	4.31	3.60	4.6	3.96	5.11	4.40	5.55	4.83	5.99	5.27	6.21	5.49	6.64	5.92	7.12	6.39						
400	2.39	2.69	2.99	3.71	4.65	5.12	5.59	4.63	6.0	5.10	6.63	5.67	7.21	6.24	7.78	6.81	8.07	7.09	8.64	7.65	9.26	8.27						
500	2.90	3.27	3.64	4.52	5.68	6.26	6.83	5.63	7.4	6.19	8.12	6.90	8.82	7.59	9.53	8.29	9.88	8.64	10.6	9.33	11.3	10.1						
600	3.39	3.83	4.26	5.31	6.68	7.37	8.05	6.58	8.7	7.25	9.56	8.08	10.4	8.91	11.2	9.72	11.6	10.1	12.5	10.9	13.4	11.8						
700	3.86	4.37	4.87	6.08	7.66	8.45	9.23	7.51	10.0	8.28	11.0	9.23	11.9	10.2	12.9	11.1	13.4	11.6	14.3	12.5	15.4	13.5						
800	4.33	4.90	5.47	6.83	8.62	9.51	10.4	8.41	11.3	9.27	12.4	10.3	13.4	11.4	14.5	12.5	15.1	13.0	16.1	14.0	17.3	15.2						
900	4.78	5.41	6.05	7.57	9.56	10.55	11.5	9.28	12.5	10.2	13.7	11.4	14.9	12.6	16.1	13.8	16.7	14.3	17.9	15.5	19.2	16.7						
1000	5.22	5.92	6.62	8.29	10.49	11.57	12.7	10.1	13.7	11.2	15.1	12.5	16.4	13.7	17.7	15.0	18.4	15.6	19.6	16.9	21.1	18.3						
1100	5.65	6.41	7.18	9.00	11.39	12.58	13.7	10.9	14.9	12.1	16.4	13.5	17.8	14.9	19.2	16.2	19.9	16.9	21.3	18.3	22.9	19.7						
1200	6.07	6.90	7.72	9.69	12.28	13.56	14.8	11.7	16.1	12.9	17.6	14.5	19.2	15.9	20.7	17.4	21.5	18.1	23.0	19.6	24.6	21.1						
1300	6.48	7.37	8.26	10.36	13.16	14.53	15.9	12.5	17.2	13.8	18.9	15.4	20.6	17.0	22.2	18.5	23.0	19.3	24.6	20.8	26.4	22.5						
1400	6.88	7.84	8.79	11.05	14.01	15.48	16.9	1.32	18.4	14.6	20.1	16.3	21.9	18.0	23.6	19.6	24.5	20.4	26.2	22.0	28.1	23.8						
1500	7.28	8.29	9.30	11.71	14.86	16.41	17.9	1.39	19.5	15.4	21.3	17.2	23.2	18.9	25.1	20.7	25.9	21.5	27.7	23.2	29.7	25.0						
1600	7.66	8.74	9.81	12.35	15.68	17.32	18.9	14.6	20.5	1.62	22.5	18.0	24.5	19.8	26.4	21.6	27.4	22.5	29.3	24.3	31.3	26.1						
1700	8.04	9.18	10.31	12.99	16.50	18.22	19.9	15.3	21.6	1.69	23.7	18.8	25.7	20.7	27.7	22.6	28.7	23.5	30.7	25.3	32.8	27.2						
1800	8.42	9.61	10.80	13.61	17.29	19.10	20.8	15.9	22.6	1.76	24.8	19.6	26.9	21.5	29.1	23.5	30.1	24.4	32.1	26.2	34.3	28.2						
1900	8.78	10.03	11.28	14.22	18.07	19.96	21.8	16.5	23.6	1.82	25.9	20.3	28.1	22.3	30.3	24.3	31.4	25.3	33.5	27.1	35.8	29.1						
2000	9.14	10.45	11.74	14.82	18.33	20.80	22.7	17.1	24.6	1.88	27.0	21.0	29.3	23.1	31.5	25.1	32.6	26.0	34.8	27.9	37.2	29.9						
2100	9.48	10.85	12.20	15.41	19.58	21.62	23.6	17.6	25.6	1.94	28.0	21.6	30.4	23.7	32.7	25.8	33.9	26.8	36.1	28.7	38.5	30.7						
2200	9.83	11.25	12.66	15.99	20.31	22.43	24.5	18.1	26.5	2.00	29.0	22.2	31.5	24.4	33.9	26.4	35.0	27.4	37.3	29.3	39.7	31.3						
2300	10.16	11.64	13.10	16.55	21.03	23.21	25.3	18.6	27.5	2.05	30.0	22.8	32.5	24.9	35.0	27.0	36.2	28.0	36.5	29.9	40.9	31.9						
2400	10.49	12.01	13.53	17.10	21.72	23.97	26.2	19.0	28.3	2.09	31.0	23.3	33.5	25.5	36.0	27.5	37.2	28.5	39.6	30.4	42.1	32.4						
2500	10.81	12.39	13.95	17.64	22.40	24.72	27.0	19.4	29.2	2.14	31.9	23.7	34.5	25.9	37.0	28.0	38.3	29.0	40.7	30.9	43.2	32.7						
2600	11.12	12.75	14.36	18.16	23.06	25.44	27.7	19.8	30.0	2.17	32.8	24.1	35.5	26.3	38.0	28.4	39.3	29.4	41.7	31.2	44.2	33.0						
2700	11.42	13.10	14.77	18.68	23.71	26.14	28.5	20.1	30.8	2.21	33.6	24.5	36.4	26.7	39.0	28.7	40.2	29.7	42.6	31.4	45.2	33.2						
2800	11.72	13.45	15.16	19.18	24.33	26.82	29.2	20.4	31.6	2.24	34.5	24.8	37.2	26.9	39.8	28.9	41.1	29.9	43.5	31.6	46.1	33.3						
2900	12.00	13.78	15.54	19.66	24.94	27.48	29.9	20.6	32.3	2.26	35.2	25.0	38.0	27.2	40.6	29.1	41.9	30.0	44.4	31.6	46.9	33.2						
3000	12.28	14.11	15.91	20.14	25.53	28.12	30.6	20.8	33.1	2.28	36.0	25.2	38.8	27.3	41.4	29.2	42.7	30.1	45.1	31.7	47.6	33.0						
3100	12.56	14.43	16.28	20.60	26.10	28.73	31.3	21.0	33.7	2.30	36.7	25.3	39.5	27.4	42.1	29.2	43.4	30.0	45.8	31.5	48.3	32.7						
3200	12.82	14.74	16.63	21.04	26.65	29.32	31.9	21.1	34.4	2.31	37.3	25.4	40.2	27.4	42.8	29.1	41.1	29.9	46.5	31.2	48.8	32.3						
3300	13.08	15.04	16.97	21.47	27.17	29.88	32.5	21.2	35.0	2.32	38.0	25.4	40.8	27.3	43.4	29.0	44.7	29.7	47.1	30.9	49.4	31.8						
3400	13.33	15.33	17.30	21.89	27.68	30.43	33.1	21.3	35.6	2.32	38.6	25.3	41.4	27.2	44.1	28.7	45.2	29.4	47.5	30.4	49.8	31.1						
3500	13.57	15.61	17.62	22.29	28.17	30.94	33.6	21.3	36.1	2.32	39.1	25.2	41.9	27.0	44.5	28.4	45.7	29.8	47.9	29.8	50.1	30.3						
3600	13.80	15.88	17.93	22.68	28.63	31.43	34.1	21.2	36.6	2.31	39.6	25.1	42.4	26.7	45.0	27.9	46.1	28.4	48.3	29.1	50.4	29.4						
3700	14.02	16.14	18.23	23.05	29.07	31.90	34.6	21.1	37.1	2.31	40.1	24.8	42.8	26.3	45.3	27.4	46.5	27.8	48.5	28.3	50.5	28.3						
3800	14.23	16.40	18.51	23.41	29.49	32.33	35.0	21.0	37.6	2.27	40.5	24.5	43.2	25.8	45.7	26.3	46.8	27.1	48.7	27.4	...	...				
3900	14.44	16.64	18.79	23.75	29.89	32.74	35.4	20.7	38.0	2.24	40.9	24.1	43.5	25.3	45.9	26.1	47.0	26.3	48.9	26.3	...	...				
4000	14.64	16.87	19.05	24.07	30.26	33.13	35.8	20.5	38.3	2.21	41.2	23.6	43.8	24.7	46.1	25.3	47.1	25.3	...	...	...	...		

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" listed on opposite page.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

‡ Additional HP below 1.02 ratio equals zero.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VX

5V

BASIC HORSEPOWER RATINGS Δ

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:														Additional HP per Belt for Speed Ratio of: ‡									
	10.9		11.8		12.5		13.2		14.0		15.0		16.0		1.02 to 1.05	1.06 to 1.11	1.12 to 1.18	1.19 to 1.26	1.27 to 1.38	1.39 to 1.57	1.58 to 1.94	1.95 to 3.38	3.39 and up	
	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V	5VX	5V										
435	10.7	9.64	11.8	10.7	12.7	11.5	13.5	12.4	14.5	13.3	15.6	14.5	16.8	15.6	.03	.10	.17	.24	.29	.34	.38	.41	.44	
485	11.8	10.6	13.1	11.8	14.0	12.7	14.9	13.6	16.0	14.6	17.3	15.9	18.6	17.2	.04	.11	.19	.26	.32	.38	.43	.46	.49	
585	14.0	12.5	15.5	13.9	16.6	15.0	17.7	16.1	18.9	17.3	20.4	18.8	22.0	20.2	.05	.13	.24	.31	.39	.46	.51	.56	.59	
690	16.3	14.4	17.9	16.0	19.2	17.3	20.5	18.5	21.9	19.9	23.7	21.6	25.4	23.3	.06	.16	.27	.38	.46	.54	.61	.66	.70	
725	17.0	15.1	18.8	16.7	20.1	18.0	21.4	19.3	22.9	20.7	24.7	22.5	26.6	24.3	.06	.17	.29	.40	.48	.56	.63	.69	.72	
870	20.0	17.6	22.0	19.5	23.6	21.0	25.1	22.5	26.9	24.1	29.0	26.2	31.1	28.1	.07	.20	.35	.46	.58	.67	.77	.83	.88	
950	21.6	18.9	23.8	21.0	25.5	22.6	27.1	24.2	28.9	25.9	31.3	28.0	33.5	30.1	.08	.22	.38	.52	.63	.74	.83	.91	.96	
1160	25.7	22.2	28.2	24.6	30.2	26.4	32.1	28.2	34.3	30.2	36.9	32.5	39.5	34.8	.10	.26	.47	.63	.77	.90	1.02	1.11	1.17	
1425	30.5	25.9	33.5	28.6	35.7	30.6	37.9	32.6	40.4	34.7	43.4	37.2	46.2	39.5	.12	.33	.57	.78	.95	1.11	1.24	1.35	1.45	
1750	35.9	29.7	39.3	32.6	41.8	34.7	44.2	36.7	46.9	38.7	50.1	41.1	53.0	43.1	.15	.40	.70	.96	1.17	1.37	1.50	1.68	1.77	
2850	49.0	34.7	52.5	36.2	54.8	39.9	56.8	37.0	63.0	45.0	75.0	55.0	85.0	65.0	.24	.66	1.15	1.56	1.80	2.20	2.50	2.73	2.89	
3450	52.0	30.9	...	...	...	...	...	...	...	...	...	...	...	...	.29	.80	1.39	1.90	2.20	2.69	3.03	3.30	3.50
100	2.77	2.55	3.05	2.83	3.27	3.04	3.48	3.26	3.73	3.50	4.03	3.80	4.33	4.11	.01	.02	.04	.05	.07	.08	.09	.09	.10	
200	5.26	4.79	5.80	5.32	6.21	5.73	6.62	6.14	7.09	6.60	7.67	7.18	8.25	7.75	.01	.04	.08	.11	.13	.16	.17	.19	.20	
300	7.64	6.91	8.42	7.68	9.02	8.27	9.62	8.86	10.3	9.54	11.1	10.37	12.0	11.2	.02	.07	.12	.16	.20	.23	.26	.29	.30	
400	9.94	8.94	10.9	9.94	11.7	10.7	12.5	11.5	13.4	12.3	14.5	13.4	15.6	14.5	.03	.09	.16	.22	.26	.31	.35	.38	.40	
500	12.2	10.9	13.4	12.1	14.4	13.0	15.3	14.0	16.4	15.0	17.7	16.3	19.1	17.7	.04	.11	.20	.27	.33	.39	.44	.46	.50	
600	14.3	12.8	15.8	14.2	16.9	15.3	18.1	16.4	19.3	17.6	20.9	19.2	22.5	20.7	.05	.14	.24	.33	.40	.47	.53	.57	.61	
700	16.5	14.6	18.2	16.2	19.5	17.5	20.7	18.7	22.2	20.1	24.0	21.8	25.8	23.6	.06	.16	.28	.38	.47	.55	.62	.67	.71	
800	18.6	16.4	20.5	18.2	21.9	19.6	23.3	21.0	24.9	22.5	27.0	24.4	28.9	26.1	.07	.18	.32	.44	.53	.62	.70	.77	.81	
900	20.6	18.1	22.7	20.1	24.3	21.6	25.9	23.1	27.7	24.8	29.9	26.9	32.0	28.9	.08	.21	.36	.49	.60	.70	.79	.86	.91	
1000	22.6	19.7	24.9	21.9	26.6	23.5	28.3	25.2	30.3	27.0	32.7	29.2	35.0	31.3	.08	.23	.39	.55	.66	.78	.87	.95	1.01	
1100	24.5	21.3	27.0	23.6	28.9	25.3	30.7	27.1	32.8	29.0	35.4	31.3	37.8	33.6	.09	.25	.44	.60	.73	.86	.96	1.05	1.11	
1200	26.4	22.8	29.0	25.3	31.1	27.1	33.0	28.9	35.2	30.9	37.9	33.3	40.6	35.6	.10	.27	.48	.66	.80	.93	1.05	1.15	1.22	
1300	28.3	24.2	31.1	26.8	33.2	28.7	35.3	30.6	37.6	32.7	40.4	35.2	43.2	37.5	.11	.30	.52	.71	.86	1.01	1.14	1.24	1.32	
1400	30.1	25.6	33.0	28.3	35.2	30.3	37.4	32.2	39.8	34.3	42.8	36.8	45.6	39.2	.11	.32	.56	.77	.93	1.09	1.23	1.34	1.42	
1500	31.8	26.9	34.9	29.6	37.2	31.7	39.5	33.6	42.0	35.8	45.0	38.3	47.9	40.6	.12	.34	.61	.82	1.00	1.18	1.32	1.44	1.52	
1600	33.5	28.1	36.7	30.9	39.1	33.0	41.4	34.9	44.0	37.1	47.1	39.6	50.1	41.8	.13	.37	.64	.88	1.07	1.25	1.40	1.53	1.62	
1700	35.1	29.2	38.4	32.1	40.9	34.1	43.3	36.1	46.0	38.2	49.1	40.6	52.1	42.7	.14	.39	.69	.93	1.13	1.32	1.49	1.61	1.72	
1800	36.7	30.2	40.1	33.1	42.6	35.2	45.1	37.2	47.8	39.2	51.0	41.5	53.9	43.4	.15	.41	.72	.99	1.20	1.40	1.58	1.72	1.83	
1900	38.2	31.2	41.7	34.0	44.3	36.1	46.8	38.0	49.5	40.0	52.7	42.1	55.6	43.9	.16	.44	.77	1.04	1.26	1.48	1.67	1.82	1.93	
2000	39.6	32.0	43.2	34.8	45.8	36.9	48.3	38.7	51.1	40.6	54.2	42.5	57.1	44.0	.17	.46	.80	1.10	1.33	1.56	1.77	1.92	2.03	
2100	41.0	32.7	44.6	35.5	47.3	37.5	49.8	39.2	52.5	40.9	55.6	42.7	58.3	43.8	.18	.48	.85	1.15	1.40	1.64	1.85	2.01	2.13	
2200	42.3	33.4	46.0	36.1	48.6	38.0	51.1	39.6	53.8	41.1	56.8	42.5	59.4	43.4	.18	.51	.89	1.21	1.47	1.71	1.93	2.10	2.23	
2300	43.6	33.9	47.2	36.5	49.9	38.3	52.4	39.7	55.0	41.1	57.8	42.1	60.3	42.6	.19	.52	.93	1.26	1.53	1.79	2.02	2.20	2.33	
2400	44.7	34.3	48.4	36.8	51.0	38.4	53.5	39.7	56.0	40.8	58.7	41.5	61.0	41.4	.20	.55	.96	1.32	1.60	1.87	2.11	2.30	2.44	
2500	45.8	34.6	49.5	36.9	52.1	38.4	54.4	39.5	56.8	40.3	59.4	40.5	...	...	.21	.57	1.01	1.38	1.67	1.95	2.20	2.39	2.54
2600	46.8	34.8	50.5	36.9	53.0	38.2	55.3	39.0	57.6	39.5	...	...	...	...	.22	.60	1.05	1.43	1.73	2.03	2.29	2.49	2.64
2700	47.8	34.9	51.3	36.8	53.8	37.8	56.0	38.4	58.1	38.5	...	...	...	...	.23	.62	1.09	1.48	1.80	2.11	2.37	2.59	2.74
2800	48.6	34.8	52.1	36.4	54.5	37.2	56.5	37.5	...	...	...	...	...	...	.24	.64	1.13	1.59	1.86	2.18	2.46	2.68	2.84
2900	49.4	34.6	52.8	35.9	55.0	36.4	56.9	36.4	...	...	...	...	...	...	.24	.67	1.17	1.60	1.93	2.26	2.55	2.78	2.94
3000	50.1	34.2	53.4	35.3	55.5	35.5	...	...	...	...	...	...	...	...	.25	.69	1.21	1.65	2.00	2.34	2.63	2.87	3.05
3100	50.7	33.7	53.8	34.5	...	...	...	...	...	...	...	...	...	...	.26	.72	1.25	1.70	2.07	2.42	2.72	2.97	3.15
3200	51.2	33.1	54.1	33.4	...	...	...	...	...	...	...	...	...	...	.27	.74	1.29	1.76	2.14	2.50	2.81	3.07	3.25
3300	51.6	32.3	...	...	...	...	...	...	...	...	...	...	...	...	.28	.77	1.33	1.81	2.20	2.58	2.90	3.16	3.35
3400	51.9	31.4	...	...	...	...	...	...	...	...	...	...	...	...	.29	.79	1.37	1.87	2.27	2.65	2.99	3.26	3.45
3500	52.1	30.3	...	...	...	...	...	...	...	...	...	...	...	...	.30	.81	1.41	1.92	2.33	2.73	3.08	3.35	3.55
3600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.31	.83	1.45	1.98	2.40	2.81	3.16	3.45	3.65
3700	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.32	.86	1.49	2.03	2.47	2.89	3.25	3.54	3.76
3800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.32	.88	1.53	2.09	2.53	2.97	3.34	3.64	3.85
3900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.33	.90	1.57	2.14	2.60	3.05	3.43	3.74	3.96
4000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.34	.93	1.61	2.20	2.67	3.12	3.52	3.83	4.06

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

8V

BASIC HORSEPOWER RATINGS Δ

Bushings

V-Drives

FHP

Drives Component Accessories

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:													Additional HP per Belt for Speed Ratio of: ‡							
	12.5	13.2	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.2	22.4	24.8	1.02 to 1.05	1.06 to 1.11	1.12 to 1.18	1.19 to 1.26	1.27 to 1.38	1.39 to 1.57	1.58 to 1.94	1.95 to 3.38	3.39 and up
435	20.1	22.3	24.8	27.8	30.9	33.9	36.8	39.8	42.7	46.2	49.7	56.4	.20	.56	.97	1.32	1.60	1.87	2.11	2.30	2.43
485	22.0	24.4	27.1	30.5	33.8	37.1	40.4	43.6	46.9	50.7	54.4	61.8	.23	.62	1.08	1.47	1.78	2.09	2.35	2.56	2.71
585	25.7	28.5	31.7	35.6	39.5	43.4	47.2	50.9	54.6	59.0	63.3	71.6	.27	.75	1.30	1.77	2.15	2.52	2.83	3.09	3.27
690	29.3	32.6	36.2	40.7	45.2	49.5	53.8	58.0	62.2	67.0	71.8	80.9	.32	.88	1.54	2.09	2.54	2.97	3.34	3.64	3.86
725	30.5	33.8	37.6	42.3	46.9	51.5	55.9	60.3	64.5	69.5	74.4	83.7	.34	.93	1.61	2.20	2.67	3.12	3.51	3.83	4.06
870	35.0	38.9	43.2	48.6	53.8	58.9	63.9	68.7	73.4	78.8	84.0	93.8	.41	1.11	1.94	2.64	3.20	3.74	4.22	4.59	4.87
950	37.3	41.4	46.0	51.7	57.2	62.6	67.7	72.8	77.6	83.1	88.4	98.1	.45	1.21	2.11	2.88	3.49	4.09	4.60	5.02	5.32
1160	42.6	47.3	52.5	58.8	64.8	70.6	76.1	81.2	86.1	91.5	96.5	104.8	.54	1.48	2.58	3.52	4.27	4.99	5.62	6.13	6.49
1425	47.6	52.7	58.4	65.0	71.2	76.9	82.1	86.8	90.9	95.0	98.3	102.1	.57	1.82	3.17	4.32	5.24	6.13	6.91	7.52	7.97
1750	50.9	56.1	61.7	67.9	73.3	77.8	81.5	84.2	85.8	86.5	...	...	.82	2.24	3.90	5.30	6.44	7.53	8.48	9.24	9.79
50	3.01	3.31	3.64	4.06	4.47	4.88	5.30	5.70	6.11	6.60	7.09	8.0	.02	.06	.11	.15	.18	.22	.24	.26	.28
100	5.59	6.15	6.79	7.59	8.38	9.17	9.96	10.7	11.5	12.5	13.4	15.2	.05	.13	.22	.30	.37	.43	.48	.53	.56
150	8.00	8.82	9.76	10.9	12.1	13.2	14.4	15.5	16.6	18.0	19.4	22.0	.07	.19	.33	.45	.55	.65	.73	.79	.84
200	10.3	11.4	12.6	14.1	15.6	17.1	18.6	20.1	21.6	23.3	25.1	28.6	.09	.26	.45	.61	.74	.86	.97	1.06	1.12
250	12.5	13.8	15.3	17.2	19.0	20.9	22.7	24.5	26.3	28.5	30.7	34.9	.12	.32	.56	.76	.92	1.08	1.21	1.32	1.40
300	14.6	16.2	18.0	20.2	22.4	24.5	26.7	28.8	31.0	33.5	36.0	41.0	.14	.38	.67	.91	1.10	1.29	1.45	1.58	1.68
350	16.7	18.5	20.5	23.1	25.6	28.1	30.5	33.0	35.4	38.3	41.2	46.9	.16	.45	.78	1.06	1.29	1.51	1.70	1.85	1.96
400	18.7	20.7	23.0	25.9	28.7	31.5	34.3	37.0	39.8	43.0	46.3	52.6	.19	.51	.89	1.21	1.47	1.72	1.94	2.11	2.24
450	20.7	22.9	25.5	28.6	31.8	34.9	37.9	41.0	44.0	47.6	51.1	58.1	.21	.58	1.00	1.36	1.66	1.94	2.18	2.38	2.52
500	22.6	25.0	27.8	31.3	34.7	38.1	41.5	44.8	48.1	51.9	55.8	63.3	.23	.64	1.11	1.52	1.84	2.15	2.42	2.64	2.80
550	24.4	27.1	30.1	33.9	37.6	41.3	44.9	48.5	52.0	56.2	60.3	68.3	.26	.70	1.22	1.67	2.02	2.37	2.67	2.90	3.08
600	26.2	29.1	32.4	36.4	40.4	44.3	48.2	52.0	55.8	60.2	64.6	73.0	.28	.77	1.34	1.82	2.21	2.58	2.91	3.17	3.36
650	28.0	31.0	34.5	38.8	43.1	47.2	51.4	55.4	59.4	64.1	68.7	77.5	.31	.83	1.45	1.97	2.39	2.80	3.15	3.43	3.64
700	29.7	32.9	36.6	41.2	45.7	50.1	54.4	58.7	62.9	67.8	72.6	81.7	.33	.89	1.56	2.12	2.57	3.01	3.39	3.70	3.92
750	31.3	34.7	38.7	43.5	48.2	52.8	57.4	61.8	66.2	71.3	76.2	85.6	.35	.96	1.67	2.27	2.76	3.23	3.63	3.96	4.20
800	32.9	36.5	40.6	45.7	50.6	55.4	60.2	64.8	69.3	74.6	79.6	89.3	.38	1.02	1.78	2.43	2.94	3.44	3.88	4.22	4.48
850	34.4	38.2	42.5	47.8	52.9	57.9	62.8	67.6	72.3	77.6	82.8	92.5	.40	1.09	1.89	2.58	3.13	3.66	4.12	4.49	4.76
900	35.9	39.8	44.3	49.8	55.1	60.3	65.4	70.3	75.0	80.5	85.8	95.5	.42	1.15	2.00	2.73	3.31	3.87	4.36	4.75	5.04
950	37.3	41.4	46.0	51.7	57.2	62.6	67.7	72.8	77.6	83.1	88.4	98.1	.45	1.21	2.11	2.88	3.49	4.09	4.60	5.02	5.32
1000	38.7	42.9	47.7	53.5	59.2	64.7	70.0	75.1	80.0	85.6	90.8	100.3	.47	1.28	2.23	3.03	3.68	4.30	4.85	5.28	5.60
1050	39.9	44.4	49.3	55.3	61.1	66.7	72.1	77.2	82.1	87.7	92.9	102.2	.49	1.34	2.34	3.18	3.86	4.52	5.09	5.54	5.88
1100	41.2	45.7	50.8	56.9	62.9	68.5	74.0	79.2	84.1	89.6	94.7	103.6	.52	1.41	2.45	3.33	4.05	4.73	5.33	5.81	6.16
1150	42.3	47.0	52.2	58.5	64.5	70.2	75.7	80.9	85.9	91.2	96.2	104.6	.54	1.47	2.56	3.49	4.23	4.95	5.57	6.07	6.44
1200	43.5	48.2	53.5	59.9	65.0	71.8	77.3	82.5	87.3	92.6	97.4	105.2	.56	1.53	2.67	3.64	4.41	5.17	5.82	6.34	6.71
1250	44.5	49.4	54.8	61.2	67.4	73.2	78.7	83.8	88.5	93.7	98.2	105.4	.59	1.60	2.78	3.79	4.60	5.38	6.06	6.60	6.99
1300	45.5	50.4	55.9	62.5	68.7	74.5	79.9	84.9	89.5	94.5	98.7	105.1	.61	1.66	2.89	3.94	4.78	5.60	6.30	6.86	7.27
1350	46.4	51.4	57.0	63.6	69.8	75.6	80.9	85.8	90.3	94.9	98.8	104.3	.63	1.73	3.01	4.09	4.97	5.81	6.54	7.13	7.55
1400	47.2	52.3	57.9	64.5	70.8	76.5	81.7	86.5	90.7	95.1	98.6	102.9	.66	1.79	3.12	4.24	5.15	6.03	6.78	7.39	7.83
1450	48.0	53.1	58.8	65.4	71.6	77.2	82.4	86.9	90.9	94.9	98.0	101.1	.68	1.85	3.23	4.40	5.33	6.24	7.03	7.66	8.11
1500	48.7	53.9	59.5	66.2	72.3	77.8	82.8	87.1	90.8	94.4	97.0	98.8	.70	1.92	3.34	4.55	5.52	6.46	7.27	7.92	8.39
1550	49.3	54.5	60.2	66.8	72.8	78.2	83.0	87.1	90.5	93.6	95.5	95.9	.73	1.98	3.45	4.70	5.70	6.67	7.51	8.18	8.67
1600	49.8	55.1	60.7	67.2	73.2	78.4	82.9	86.7	89.8	92.3	93.7	...	.75	2.05	3.56	4.85	5.88	6.89	7.75	8.45	8.95
1650	50.2	55.5	61.1	67.6	73.4	78.4	82.7	86.2	88.8	90.8	91.4	...	.77	2.11	3.67	5.00	6.07	7.10	8.00	8.71	9.23
1700	50.6	55.9	61.5	67.8	73.4	78.2	82.2	85.3	87.5	88.8	88.7	...	.80	2.17	3.78	5.15	6.25	7.32	8.24	8.98	9.51
1800	51.2	56.3	61.7	67.8	73.0	77.2	80.5	82.7	83.9	83.7	...	...	.84	2.30	4.01	5.46	6.62	7.75	8.72	9.5	10.1
1900	51.2	56.3	61.5	67.2	71.8	75.4	77.8	79.0	78.9	...	...	...	.89	2.43	4.23	5.76	6.99	8.18	9.21	10.0	10.6
2000	51.0	55.9	60.8	65.9	69.9	72.6	74.0	74.0	...	...	...	...	.94	2.56	4.45	6.06	7.36	8.61	9.69	10.6	11.2
2200	49.4	53.7	57.7	61.5	63.7	64.2	...	...	...	...	...	...	1.03	2.81	4.90	6.67	8.09	9.47	10.7	11.6	12.3
2400	46.0	49.5	52.4	54.2	54.1	...	...	...	...	...	...	...	1.13	3.07	5.34	7.28	8.83	10.3	11.6	12.7	13.4
2600	40.9	43.2	44.5	...	...	...	...	...	...	...	...	...	1.22	3.32	5.79	7.88	9.56	11.2	12.6	13.7	14.5

Shaded areas indicate rim speeds exceeding 6500 FPM which may require higher strength sheaves.

TOTAL RATING = rated HP + "additional HP" from right hand column.

‡ Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



5VF

BASIC HORSEPOWER RATINGS Δ

Aramid Cord Belt

SEE CAUTION BELOW

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:															Additional HP per Belt for Speed Ratio of:†				
	7.1	8.0	8.5	9.0	9.75	10.3	10.9	11.3	11.8	12.5	13.2	14.0	15.0	16.0	1.02 to 1.20	1.21 to 1.50	1.51 to 2.19	2.20 to 3.32	3.33 and up	
200	3.55	4.42	4.91	5.39	6.11	6.63	7.2	7.58	8.05	8.71	9.36	10.1	11.0	11.9	.10	.24	.33	.37	.38	
300	5.01	6.29	6.99	7.69	8.74	9.5	10.3	10.9	11.5	12.5	13.5	14.5	15.9	17.2	.15	.36	.50	.55	.57	
400	6.39	8.05	8.97	9.88	11.2	12.2	13.3	14.0	14.9	16.1	17.4	18.8	20.5	22.2	.19	.47	.66	.74	.76	
500	7.71	9.74	10.9	12.0	13.6	14.8	16.2	17.0	18.1	19.6	21.1	22.8	24.9	27.0	.24	.59	.83	.92	.94	
600	8.96	11.4	12.7	14.0	15.9	17.4	18.9	19.9	21.2	23.0	24.8	26.7	29.2	31.7	.29	.71	.99	1.11	1.13	
700	10.2	12.9	14.4	15.9	18.2	19.8	21.6	22.8	24.2	26.3	28.3	30.5	33.3	36.1	.34	.83	1.16	1.29	1.32	
800	11.3	14.4	16.1	17.8	20.4	22.2	24.2	25.5	27.1	29.4	31.6	34.2	37.3	40.4	.39	.95	1.32	1.48	1.51	
900	12.4	15.9	17.8	19.7	22.5	24.5	26.7	28.2	29.9	32.4	34.9	37.7	41.1	44.5	.44	1.07	1.49	1.66	1.70	
1000	13.5	17.3	19.4	21.5	24.5	26.7	29.1	30.7	32.7	35.4	38.0	41.1	44.8	48.4	.49	1.18	1.65	1.85	1.89	
1100	14.6	18.7	20.9	23.2	26.5	28.9	31.5	33.2	35.3	38.2	41.1	44.3	48.2	52.1	.53	1.30	1.82	2.03	2.08	
1200	15.6	20.0	22.4	24.8	28.4	30.9	33.7	35.5	37.8	40.9	43.9	47.4	51.5	55.6	.58	1.42	1.99	2.22	2.27	
1300	16.6	21.3	23.9	26.4	30.2	32.9	35.9	37.8	40.2	43.5	46.7	50.3	54.7	58.9	.63	1.54	2.15	2.40	2.45	
1400	17.5	22.5	25.3	28.0	32.0	34.9	37.9	40.0	42.5	45.9	49.3	53.0	57.6	61.9	.68	1.66	2.32	2.59	2.64	
1600	19.3	24.9	27.9	30.9	35.3	38.5	41.8	44.1	46.8	50.5	54.1	58.1	62.8	67.3	.78	1.89	2.65	2.96	3.02	
1800	20.9	27.0	30.3	33.6	38.4	41.7	45.4	47.7	50.6	54.5	58.2	62.3	67.2	71.6	.88	2.13	2.98	3.32	3.40	
2000	22.4	29.0	32.6	36.0	41.1	44.7	48.5	50.9	53.9	57.9	61.7	65.8	70.5	74.8	.97	2.37	3.31	3.69	3.78	
2200	23.8	30.8	34.5	38.2	43.5	47.2	51.2	53.7	56.7	60.7	64.5	68.5	72.9	76.7	1.07	2.60	3.64	4.06	4.15	
2400	24.9	32.4	36.3	40.1	45.6	49.4	53.4	55.9	58.9	62.8	65.5	70.2	74.1	77.3	1.17	2.84	3.97	4.43	4.53	
2600	26.0	33.7	37.8	41.7	47.3	51.1	55.1	57.6	60.5	64.3	67.6	70.9	...	...	1.26	3.08	4.30	4.80	4.91
2800	26.9	34.8	39.0	43.0	48.6	52.4	56.3	58.7	61.4	64.9	67.8	...	...	...	1.36	3.31	4.63	5.17	5.29
3000	27.6	35.8	40.0	44.0	49.6	53.3	56.9	59.2	61.7	64.7	...	...	...	...	1.46	3.55	4.96	5.54	5.66
3200	28.1	36.4	40.7	44.6	50.1	53.6	57.0	59.0	61.2	...	...	...	...	...	1.56	3.79	5.30	5.91	6.04
3400	28.4	36.8	41.0	44.9	50.1	53.4	56.5	58.2	...	...	...	...	...	...	1.65	4.02	5.63	6.28	6.42
3600	28.6	36.9	41.1	44.8	49.7	52.7	...	...	...	...	...	...	...	...	1.75	4.26	5.96	6.65	6.80

8VF

SEE CAUTION BELOW

Faster Shaft RPM	Rated HP per Belt for Small Sheave O.D. of:												Additional HP per Belt for Speed Ratio of:†				
	12.5	13.2	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.2	22.4	24.8	1.02 to 1.20	1.21 to 1.50	1.51 to 2.19	2.20 to 3.32	3.33 and up
200	12.6	14.5	16.6	19.3	21.9	24.6	27.2	29.8	32.433	35.5	38.6	44.7	.59	1.43	2.00	2.24	2.29
250	15.0	17.4	20.0	23.3	26.5	29.7	33.0	36.2	39.4	43.2	46.9	54.5	.74	1.79	2.51	2.80	2.86
300	17.4	20.1	23.2	27.1	30.9	34.7	38.5	42.3	46.1	50.5	55.0	63.8	.88	2.15	3.01	3.36	3.43
350	19.6	22.7	26.3	30.7	35.2	39.6	43.9	48.3	52.6	57.7	62.8	72.9	1.03	2.51	3.51	3.91	4.00
400	21.7	25.2	29.3	34.3	39.3	44.2	49.1	54.0	58.9	64.6	70.4	81.7	1.18	2.87	4.01	4.47	4.57
450	23.7	27.7	32.2	37.7	43.2	48.7	54.2	59.6	65.0	71.4	77.7	90.2	1.33	3.23	4.51	5.03	5.15
500	25.6	30.0	34.9	41.0	47.1	53.1	59.1	65.0	70.9	77.8	84.8	98.4	1.47	3.58	5.01	5.59	5.72
600	29.3	34.4	40.1	47.3	54.4	61.4	68.4	75.3	82.2	90.2	98.2	113.9	1.77	4.30	6.01	6.71	6.86
700	32.6	38.4	45.0	51.2	61.2	69.2	77.1	84.9	92.6	101.7	110.7	128.1	2.06	5.02	7.01	7.83	8.00
800	35.6	42.1	49.5	58.6	67.6	76.5	85.2	93.8	102.3	112.3	122.1	141.1	2.36	5.73	8.02	8.95	9.15
900	38.3	45.5	53.6	63.6	73.5	83.1	92.7	102.0	111.2	121.9	132.4	152.5	2.65	6.45	9.02	10.1	10.3
1000	40.7	48.5	57.4	68.2	78.8	89.2	99.4	109.4	119.1	130.5	141.5	162.4	2.95	7.17	10.0	11.2	11.4
1100	42.9	51.3	60.7	72.3	83.6	94.7	105.5	116.0	126.2	138.0	149.4	170.7	3.24	7.89	11.0	12.3	12.6
1200	44.7	53.7	63.7	75.9	87.9	99.5	110.8	121.7	132.2	144.4	155.9	177.3	3.53	8.60	12.0	13.4	13.7
1300	46.2	55.7	66.3	79.2	91.6	103.7	115.3	126.5	137.3	149.5	161.1	181.9	3.83	9.32	13.1	14.5	14.8
1400	47.4	57.3	68.4	81.8	94.7	107.1	119.0	130.4	141.2	153.4	164.7	184.5	4.12	10.1	14.1	15.7	16.0
1500	48.3	58.6	70.1	83.9	97.1	109.8	121.8	133.2	143.9	155.8	165.7	184.9	4.42	10.7	15.0	16.8	17.1
1600	48.8	59.5	71.3	85.4	98.9	111.7	123.7	135.0	145.4	156.8	167.0	...	4.71	11.5	16.0	17.9	18.3
1700	49.0	59.0	72.0	86.4	100.0	112.8	124.7	135.7	145.6	156.3	165.5	...	5.01	12.2	17.0	19.0	19.4
1800	48.8	60.0	72.2	86.8	100.4	113.0	124.6	135.1	144.5	154.2	...	...	5.30	12.9	18.0	20.1	20.6
1900	48.2	59.5	71.9	86.5	100.0	112.4	123.5	133.4	141.9	...	...	...	5.60	13.6	19.0	21.2	21.7
2000	47.2	58.7	71.1	85.6	98.8	110.7	121.3	130.3	...	...	...	...	5.89	14.3	20.0	22.3	22.8
2100	45.8	57.3	69.7	84.0	96.8	108.1	117.9	...	...	...	...	...	6.19	15.0	21.0	23.5	24.0
2200	43.9	55.5	67.7	81.7	94.0	104.5	...	...	...	...	...	...	6.48	15.8	22.0	24.6	25.1

Shaded areas indicate rim speeds exceeding 6500 FPM which require higher strength sheaves. TOTAL RATING = rated HP + "additional HP" from right hand column.
 \ddagger Additional HP below 1.02 ratio equals zero.

Δ Subject to Arc and Length Corrections Factors on page PT7-47.

CAUTION: Belt horsepower ratings may exceed design capacity of stock sheaves. Consult factory for recommendations.

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Stock Classical Drives: Standard Motor Speeds

Step 1 - Determine Service Factor. Refer to Typical Service factors, Table 7. Locate type of Driven and Driver equipment. (If an idler is used, increase the factor by value indicated). Correct factor is determined by: **1.** The extent and frequency of peak loads. **2.** Number of operating hours/year, broken down in average hours/day of continuous service. **3.** Proper service category: (Intermittent, Normal or Continuous). Select the one closest to the application conditions.

Step 2 - Compute Design HP. Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

Step 3 - Choose Belt Section. Using Table 6, below, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt sections.

Step 4 - Select the Drive. a.) Using belt section from Step 3, refer to Stock Drive Selection Tables beginning on page PT7-88. **b.)** Under appropriate driver speed column find Driven RPM nearest to the desired speed. To the right note HP per Belt. Read left for Driver/Driven Sheave information. (If driver is an electric motor be sure motor sheave diameter is not less than shown in Table 8.) **c.)** Read onto **opposite** page and find figure nearest the required center distance. Note Arc-Length Correction Factor in the shaded row **below** the C.D. figure. **d.)** Read to the top of the table for the belt size. **e.) To determine number of belts,** multiply the HP per Belt value by the Arc Length Correction Factor. This is the corrected HP/ belt. Divide design HP by corrected HP figure to determine number of belts required.

EXAMPLE OF SELECTION

Select a classical drive for a continuous duty 3-piston compressor, with a 2-7/16, shaft, to run at about 284 RPM, driven by a 30 HP, 1160 RPM squirrel cage electric motor with a 2-1/8, shaft. Desired center distance is approximately 36".

Step 1 - Service factor from Table 7 is 1.4.

Step 2 - Design HP = 1.4 x 30 = 42 HP.

Step 3 - A C-section belt is shown in Table 11 when reading to the right of 1160 RPM and up from 42 design HP.

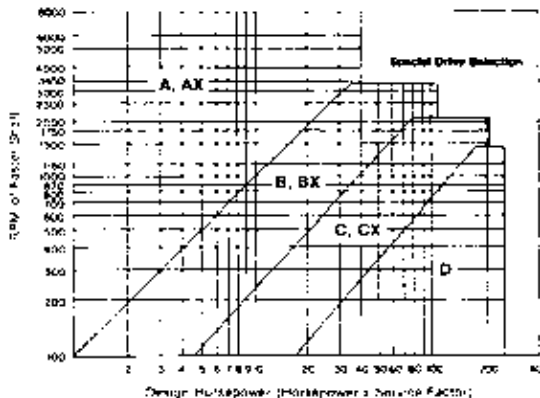
Step 4 - Turn to C-Stock Drive Selection Tables beginning on page PT7-106. Under 1160 RPM Driven, read down to find 285 RPM. One selection is 284 on page PT7-110. Note HP/belt as 15.47 for all SL Classic belts and Polyband belts over 116" and 19.34 for all Classic-Cog and Polyband under 116". Also note sheaves listed as a 8.5 Driver, 36.0 Driven. Table 8 shows driver is not undersize. Reading to opposite page the C.D. figure of 35.9 is closest to 36". Top of table shows belt size as C144.

The HP/belt for SL Classic is 15.47. This value x the .95 factor = 14.7 corrected HP/belt. 42 HP ÷ 14.7 = 2.85. Going to the next whole number the drive requires 3 SL Classic belts. (Center to center operating distance is 35.9 nominal.)

Order: **1.** 3 - C144 SL Classic Belts. **2.** 1 - 3-groove C8.5 TAPER-LOCK Sheave. **3.** 1 - 2-1/8, bore 2517 bushing. **4.** 1 - 3-groove C36.0 TAPER-LOCK Sheave. **5.** 1 - 2-7/16, bore 3535 bushing.

(The steps above may be used to figure a Classic-COG drive with higher HP ratings. This drive usually uses fewer grooves and will be more compact. The decision to use SL Classic, Classic-COG or POLYBAND belts involves economics, interchangeability, etc.).

TABLE 6 - NARROW CROSS SECTION SELECTION CHART



SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-42	ENGINEERING/TECHNICAL PAGES PT7-124
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SERVICE FACTORS

Table 7 - Typical Service Factors

Driven Machine Types Note: Certain machines may require flywheel sheaves or special construction to withstand heavy shock loads. Consult Mfg'r.	Driver: Normal Torque NEMA Des. A or B Motors DC Shunt Wound Motors Multi-Cylinder Engines			Driver: High Torque NEMA Des. C or D Motors DC Series Wound Motors Single Cylinder Engines			
	Service*			Service*			
	Intermit.	Normal	Contin.	Intermit.	Normal	Cont.	
Agitators for Liquids Blowers and Exhausters Centrif. Pumps, Compressors Fans up to 10HP Light Duty Conveyors	1.0	1.1	1.2	1.1	1.2	1.3	* Note: Intermittent: Up to 6 Hrs./Day Normal: 6-16 Hrs./Day Continuous: 16-24 Hrs./Day Adder for Idlers: Outside on slack side 0.1 Inside on tight side 0.1 Outside on tight side 0.2
Belt Conveyors, Bulk Mat'l Dough Mixers Fans over 10 HP Generators Line Shafts Laundry Machinery Machine Tools Punches, Presses, Shears Printing Machinery Positive Displ. Rotary Pumps Revolving & Vibrating Screens	1.1	1.2	1.3	1.2	1.3	1.4	
Brick Machinery Bucket Elevators Exciters Piston Compressors Conveyors: Drag, Pan, Screw Hammer Mills Paper Mill Beaters Piston Pumps Pos. Displacement Blowers Pulverizers Saw Mill, Woodworking Mach'y Textile Machinery	1.2	1.3	1.4	1.4	1.5	1.6	
Crushers: Gyratory, Jaw, Roll Mills: Ball, Rod, Tube Hoists Rubber Calendars, Extruders, Mills	1.3	1.4	1.5	1.6	1.7	1.8	
Chokable Equipment, Fire Hazzard	2.0	2.0	2.0	2.0	2.0	2.0	

Table 8 - Min. Recommended Classical Groove Sheave Dia. for Drives Using Electric Motors

Motor RPM	A, B, C, D, V-belt Sheave	Motor Horsepower																		
		1/2	3/4	1	1-1/2	2	3	5	7-1/2	10	15	20	25	30	40	50	60	75	100	125
870	Min. P.D.	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.6	5.4	6.0	6.8	6.8	8.2	9.0	10.0	10.5	12.5	...
	Max. Face Width	4.3	4.3	5.3	5.3	6.5	6.5	7.8	7.8	9.0	9.0	10.3	10.3	11.5	11.5	14.3	14.3	16.8	16.8	...
1160	Min. P.D.	...	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.6	5.4	6.0	6.8	6.8	8.2	9.0	10.0	11.0	12.5
	Max. Face Width	...	4.3	4.3	5.3	5.3	6.5	6.5	7.8	7.8	9.0	9.0	10.3	10.3	11.5	11.5	14.3	14.3	16.8	16.8
1750	Min. P.D.	...	...	2.2	2.4	2.4	2.4	3.0	3.0	3.8	4.4	4.6	5.0	5.4	6.0	6.8	7.4	9.0	10.0	11.5
	Max. Face Width	...	...	4.3	4.3	5.3	5.3	6.5	6.5	7.8	7.8	9.0	9.0	10.3	10.3	11.5	11.5	14.3	14.3	
3500	Min. P.D.	...	...	...	2.2	2.4	2.4	3.0	3.8	3.0	3.8	4.4	4.4	...	...	...	...	...	...
	Max. Face Width	...	...	...	4.3	4.3	4.3	5.3	5.3	6.5	6.5	7.8	7.8	...	...	...	...	...	...

Data is per NEMA Standard MG1-14.42. In areas where sheaves are not listed, consult motor manufacturer.



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Stock Classical Drives: Non Standard Motor Speeds & Speed-up Drives

For Speeds Other Than Standard Motor Speeds:

Step 1 - Determine Speed Ratio: $\left(\frac{\text{Driver RPM}}{\text{Driven RPM}}\right)$

Step 2 - Compute Design HP. Multiply normal running HP required or nameplate rating by service factor from Table 2.

Step 3 - Determine Maximum Diameter of Driver

Sheave @ 6500 FPM: O.D. = $\frac{6500 \text{ FPM}}{.262 \times \text{RPM}}$

Step 4 - Select Belt Cross Section. Using Table 6, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

Step 5 - Select Drive. Using the belt section from Step 4, make a tentative sheave selection from **Stock Drive Selection Tables.** (Note that several choices are available in the ratio obtained from Step 1.) Other choices close to this ratio may also produce a functional drive. Read onto opposite page and find figure nearest the required center distance. The Arc-Length Correction Factor is listed in the shaded row below the C.D. figure. Read to the top of the table for the belt size.

Step 6 - Size the Drive. From **Basic HP Tables** beginning on page PT7-116, locate HP rating at intersection of RPM row and small sheave column. To this, add the "additional HP" figure based on drive ratio. This becomes the rated HP. Multiply this sum by the arc-length correction factor noted in Step 5. This becomes the corrected HP per belt. To find

Required number of belts : $\frac{\text{Design HP}}{\text{Correction HP/ Belt}}$

EXAMPLE OF SELECTION

A V-drive is needed for a 15 HP, 2200 RPM gasoline engine, with a 1⁵/₈" shaft, running a reducer on a belt conveyor. 2⁵/₁₆" reducer input shaft shaft runs at 1350 RPM. Service is intermittent. Center distance is 36".

Step 1 - Speed Ratio = $\frac{2200}{1350} = 1.48$

Step 2 - Service Factor = 1.2 Design HP = 15 x 1.1 = 16.5

Step 3 - Driver Sheave Max. Dia. = $\frac{6500}{.262 \times 2200} = 2.4$

Step 4 - Belt Cross Section = Table 11 indicates A-AX.

Step 5 - Turn to A, AX Stock Drive Selection Tables beginning on page PT7-88. Find the 1.48 ratio obtained in the Step 1 calculations. The most economical drive shows a 4.6 Driver, 7.0 Driven Sheave. The C.D. nearest 36" is

36.5. The correction factor below the C.D. figure is 1.07. Top of the table shows an A90 belt. Refer to **Basic HP Tables** on page PT7-116. From the 2000 RPM of the faster shaft row and down from the 4.6 smaller sheave: 5.44 HP/belt plus an additional HP of .45 in the 1.52 thru 1.99 ratio column. The sum = 5.89 HP/belt x 1.07 arc-length correction factor = 6.3 HP/belt.

Number of belts = $\frac{16.5}{6.3} = 2.61$ or 3 belts

Order: 1- 3 groove A4.6 TAPER-LOCK Sheave, 1-1⁵/₈" bore 1610 bushing, 1-3 groove A7.0 sheave, 1-2³/₁₆" bore 2517 bushing, 3-A90 SL Classic Belts.

Example of an "A" Speed-Up Drive

A 10 HP 1750 RPM AC motor, with a 1-3/8" shaft is to drive a high speed blower @ 4000 RPM. The blower shaft is 1⁷/₁₆", center distance 24" and equipment runs 24 hrs./day.

1. Service Factor from Table 12 is 1.2.
2. Design HP = 10 x 1.2 = 12 HP.
3. Speed Ratio = $\frac{4000}{1750} = 2.29$
4. In Stock Drive Table, under 2.29 ratio, sheaves are listed as 3.4 Driver/8.2 Driven. (In a speed-up drive, the 3.4 sheave becomes the Driven, the 8.2 the Driver.) The opposite page of the table shows the closest center distance as 24.4 with an arc length correction factor of .96. Belt shown at top of table is A66.
5. From **Basic Horsepower Tables** a 3.4 sheave @ 4000 RPM = (4.38 + 1.00) = 5.20.
5.38 x .96 = 5.16 corrected HP/belt.
6. Number of Belts = $\frac{\text{Design HP}}{\text{Corrected HP}} = \frac{12}{5.16} = 2.33$
or 3 belts.
7. **Order:** 1-3 groove A8.2 TAPER-LOCK Sheave, 1-1³/₈" bore 2517 bushing, 1-3 groove A3.4 TAPER-LOCK Sheave, 1-1⁷/₁₆" bore 1610 bushing, 3-A66 SL belts.

NOTE: To determine required belt length when center distance and sheave datum diameters are known, use the following formula.

$$L = 2C + 1.57(D + d) + \frac{(D - d)^2}{4c}$$

L = Belt Length In Inches

C = Center Distance

D = Datum Dia. of Large Sheave

d = Datum Dia. of Small Sheave

SHEAVES PAGES PT7-3	BELTS PAGES PT7-28	SELECTION: CLASSICAL PAGES PT7-42	ENGINEERING/TECHNICAL PAGES PT7-124
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Belt Correction Factors

Table 9 - Classical Belt Length Correction Factors

Datum Length	Factor	Datum Length	Factor	Datum Length	Factor	Datum Length	Factor	Datum Length	Factor	Datum Length	Factor	Datum Length	Factor
A Belts		A Belts (Cont.)		A Belts (Cont.)		B Belts (Cont.)		B Belts (Cont.)		C Belts (Cont.)		D Belts (Cont.)	
15.3	0.68	58.3	0.96	113.3	1.11	57.8	0.90	101.8	1.03	107.9	0.94	213.3	0.96
16.3	0.69	59.3	0.97	121.3	1.13	58.8	0.90	102.8	1.03	108.9	0.94	225.8	0.99
17.3	0.71	60.3	0.97	129.3	1.14	59.8	0.91	104.8	1.04	110.9	0.94	240.8	1.00
18.3	0.72	61.3	0.98	134.3	1.14	60.8	0.91	106.8	1.04	111.9	0.94	255.8	1.01
19.3	0.73	62.3	0.98	137.3	1.15	61.8	0.92	109.8	1.04	113.9	0.94	270.8	1.03
20.3	0.74	63.3	0.98	145.3	1.17	62.8	0.92	112.8	1.05	114.9	0.95	285.8	1.04
21.3	0.75	64.3	0.98	159.3	1.19	63.8	0.92	113.8	1.05	117.9	0.95	300.8	1.05
22.3	0.76	65.3	0.99	174.3	1.21	64.8	0.92	117.8	1.06	122.9	0.97	315.8	1.06
23.3	0.77	67.3	0.99	181.3	1.22	65.8	0.93	121.8	1.07	126.9	0.97	330.8	1.07
24.3	0.78	68.3	0.99	B Belts		66.8	0.93	125.8	1.07	130.9	0.98	345.8	1.08
25.3	0.79	69.3	1.00	23.8	0.71	67.8	0.93	129.8	1.08	138.9	0.99	360.8	1.09
26.3	0.80	70.3	1.00	24.8	0.72	68.8	0.94	134.8	1.09	146.9	1.00	390.8	1.11
27.3	0.81	71.3	1.00	25.8	0.73	69.8	0.95	137.8	1.09	152.9	1.01	420.8	1.12
28.3	0.81	72.3	1.01	26.8	0.74	70.8	0.95	145.8	1.11	160.9	1.02	450.8	1.14
29.3	0.82	73.3	1.01	27.8	0.75	71.8	0.95	149.8	1.11	164.9	1.03	480.8	1.16
30.3	0.82	74.3	1.01	28.8	0.75	72.8	0.95	159.8	1.13	175.9	1.04	540.8	1.18
31.3	0.83	75.3	1.02	29.8	0.76	73.8	0.95	163.8	1.13	182.9	1.05	600.8	1.20
32.3	0.84	76.3	1.02	30.8	0.77	74.8	0.96	174.8	1.15	197.9	1.07	E Belts #	
33.3	0.84	77.3	1.02	31.8	0.77	75.8	0.96	181.8	1.16	212.9	1.08	184.5	0.91
34.3	0.85	78.3	1.02	32.8	0.78	76.8	0.97	191.8	1.16	225.9	1.10	199.5	0.92
35.3	0.86	79.3	1.03	33.8	0.79	77.8	0.97	196.8	1.18	240.9	1.11	214.5	0.94
36.3	0.87	80.3	1.03	34.8	0.79	78.8	0.97	206.8	1.19	255.9	1.12	241.0	0.96
37.3	0.87	81.3	1.04	35.8	0.80	79.8	0.97	211.8	1.19	270.9	1.14	271.0	0.99
38.3	0.87	82.3	1.04	36.8	0.81	80.8	0.97	225.3	1.21	285.9	1.15	301.0	1.01
39.3	0.88	83.3	1.04	37.8	0.81	81.8	0.97	240.3	1.22	300.9	1.16	331.0	1.03
40.3	0.89	84.3	1.04	38.8	0.82	82.8	0.98	255.3	1.24	315.9	1.18	361.0	1.05
41.3	0.89	85.3	1.05	39.8	0.83	83.8	0.98	270.3	1.25	330.9	1.19	391.0	1.07
42.3	0.90	86.3	1.05	40.8	0.83	84.8	0.98	285.3	1.26	345.9	1.20	421.0	1.09
42.3	0.90	87.3	1.05	41.8	0.83	85.8	0.99	300.3	1.27	360.9	1.21	481.0	1.12
43.3	0.91	88.3	1.05	42.8	0.84	86.8	0.99	315.3	1.29	390.9	1.23	541.0	1.14
44.3	0.91	89.3	1.06	43.8	0.85	87.8	0.99	C Belts		420.9	1.24	601.0	1.17
45.3	0.92	90.3	1.06	44.8	0.85	88.8	0.99	53.9	0.80	450.9	1.26	....	....
46.3	0.92	91.3	1.06	45.8	0.85	89.8	1.00	57.9	0.81	480.9	1.27	....	....
47.3	0.93	92.3	1.06	46.8	0.86	90.8	1.00	62.9	0.82	D Belts		....	....
48.3	0.93	93.3	1.07	47.8	0.87	91.8	1.00	70.9	0.85	108.3	0.83	....	....
49.3	0.93	94.3	1.07	48.8	0.87	92.8	1.00	73.9	0.87	115.3	0.84	....	....
50.3	0.94	95.3	1.07	49.8	0.87	93.8	1.00	77.9	0.89	123.3	0.86	....	....
51.3	0.94	96.3	1.07	50.8	0.88	94.8	1.01	83.9	0.90	131.3	0.87	....	....
52.3	0.95	97.3	1.08	51.8	0.88	95.8	1.01	87.9	0.91	147.3	0.90	....	....
53.3	0.95	98.3	1.08	52.8	0.89	96.8	1.01	92.9	0.92	161.3	0.92	....	....
54.3	0.96	99.3	1.08	53.8	0.89	97.8	1.01	98.9	0.92	165.3	0.92	....	....
55.3	0.96	101.3	1.08	54.8	0.89	98.8	1.02	99.9	0.92	176.3	0.93	....	....
56.6	0.96	106.3	1.10	55.8	0.89	99.8	1.02	101.9	0.92	183.3	0.94	....	....
57.3	0.96	111.3	1.11	56.8	0.90	100.8	1.02	103.9	0.94	198.3	0.96	....	....

E Belts recommended for replacement only, not for new drive design.

Table 10 - Arc Correction Factors

D-d C	Approx. Arc of Contact on Small Shv.	Factor	D-d C	Approx. Arc of Contact on Small Shv.	Factor
.00	180°	1.00	.80	133°	.87
.10	174°	.99	.90	127°	.85
.20	169°	.97	1.00	120°	.82
.30	163°	.96	1.10	113°	.80
.40	157°	.94	1.20	106°	.77
.50	151°	.93	1.30	99°	.73
.60	145°	.91	1.40	91°	.70
.70	139°	.89	1.50	83°	.65

‡ D = Dia. of large sheave.
d = Dia. of small sheave.
C = Center distance



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A S-L CLASSIC AX CLASSIC COG STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		3500 RPM Driver				1750 RPM Driver				1160 RPM Driver				Belt Size/Center Distance						
	Datum Diam.		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		A26 AX26	A31 AX31	A33 AX33	A35 AX35	A38 AX38	A42 AX42	A46 AX46			
	Driver	Driven		A	AX		A	AX		A	AX										
1.00	3.0	3.0	3500	3.42	4.61	1750	2.37	3.08	1160	1.78	2.33	8.9	11.4	12.4	13.4	14.9	16.9	18.9			
1.00	3.4	3.4	3500	4.60	5.68	1750	3.09	3.72	1160	2.29	2.79	8.3	10.8	11.8	12.8	14.3	16.3	18.3			
1.00	3.8	3.8	3500	5.72	6.70	1750	3.80	4.35	1160	2.79	3.24	7.7	10.2	11.2	12.2	13.7	15.7	17.7			
1.00	4.2	4.2	3500	6.77	7.68	1750	4.49	4.96	1160	3.29	3.69	7.1	9.6	10.6	11.6	13.1	15.1	17.1			
1.00	4.6	4.6	3500	7.75	8.62	1750	5.16	5.56	1160	3.77	4.13	6.4	8.9	9.9	10.9	12.4	14.4	16.4			
1.00	5.0	5.0	3500	8.66	9.52	1750	5.83	6.15	1160	4.25	4.56	---	8.3	9.3	10.3	11.8	13.8	15.8			
1.00	5.2	5.2	3500	9.09	9.96	1750	6.15	6.44	1160	4.49	4.77	---	8.0	9.0	10.0	11.5	13.5	15.5			
1.00	6.0	6.0	3500	10.60	11.59	1750	7.42	7.57	1160	5.43	5.60	---	---	7.7	8.7	10.2	12.2	14.2			
1.00	7.0	7.0	3500	---	---	1750	8.92	8.92	1160	6.56	6.61	---	---	---	---	8.7	10.7	12.7			
1.03	5.6	5.8	3387	10.02	10.93	1693	6.86	7.08	1122	5.01	5.23	---	7.2	8.2	9.2	10.7	12.7	14.7			
1.04	5.0	5.2	3375	8.81	9.67	1687	5.90	6.23	1118	4.30	4.60	5.6	8.1	9.1	10.1	11.6	13.6	15.6			
1.04	4.2	4.4	3354	6.94	7.85	1677	4.57	5.05	1111	3.34	3.75	6.9	9.4	10.4	11.4	12.9	14.9	16.9			
1.05	3.6	3.8	3333	5.36	6.39	1666	3.54	4.13	1104	2.61	3.08	7.8	10.3	11.3	12.3	13.8	15.8	17.8			
1.06	3.0	3.2	3304	3.64	4.83	1652	2.48	3.19	1095	1.86	2.40	8.8	11.3	12.3	13.3	14.8	16.8	18.8			
1.06	6.0	6.4	3294	10.83	11.82	1647	7.54	7.69	1092	5.50	5.68	---	6.4	7.4	8.4	9.9	11.9	13.9			
1.07	5.2	5.6	3266	9.35	10.22	1633	6.28	6.57	1082	4.58	4.85	---	7.7	8.7	9.7	11.2	13.2	15.2			
1.08	4.6	5.0	3240	8.04	8.91	1620	5.31	5.71	1074	3.87	4.22	6.1	8.6	9.6	10.6	12.1	14.1	16.1			
1.09	4.0	4.4	3207	6.57	7.51	1604	4.30	4.82	1063	3.14	3.57	7.1	9.6	10.6	11.6	13.1	15.1	17.1			
1.09	6.0	6.6	3199	10.92	11.91	1600	7.58	7.73	1060	5.53	5.71	---	6.3	7.3	8.3	9.8	11.8	13.8			
1.10	5.6	6.2	3181	10.23	11.13	1590	6.96	7.18	1054	5.07	5.30	---	6.9	7.9	8.9	10.4	12.4	14.4			
1.10	3.6	4.0	3180	5.51	6.53	1590	3.61	4.21	1054	2.66	3.13	7.7	10.2	11.2	12.2	13.7	15.7	17.7			
1.11	5.2	5.8	3160	9.45	10.31	1580	6.33	6.62	1047	4.61	4.89	---	7.5	8.5	9.5	11.0	13.0	15.0			
1.11	3.2	3.6	3148	4.38	5.52	1574	2.92	3.59	1043	2.16	2.68	8.3	10.8	11.8	12.8	14.3	16.3	18.3			
1.12	4.8	5.4	3137	8.60	9.46	1568	5.69	6.05	1040	4.14	4.47	5.6	8.1	9.1	10.1	11.6	13.6	15.6			
1.12	3.0	3.4	3130	3.80	5.00	1565	2.56	3.27	1037	1.91	2.46	8.6	11.1	12.1	13.1	14.6	16.6	18.6			
1.13	4.2	4.8	3095	7.18	8.10	1547	4.69	5.17	1026	3.42	3.83	6.6	9.1	10.1	11.1	12.6	14.6	16.6			
1.13	5.6	6.4	3087	10.31	11.21	1544	7.00	7.22	1023	5.10	5.33	---	6.7	7.7	8.7	10.2	12.2	14.2			
1.14	3.8	4.4	3061	6.16	7.14	1530	4.02	4.57	1014	2.94	3.39	7.2	9.7	10.7	11.7	13.2	15.2	17.2			
1.15	5.0	5.8	3047	9.12	9.97	1523	6.05	6.38	1010	4.40	4.70	---	7.7	8.7	9.7	11.2	13.2	15.2			
1.15	3.6	4.2	3041	5.62	6.65	1521	3.67	4.27	1008	2.69	3.17	7.5	10.0	11.0	12.0	13.5	15.5	17.5			
ARC-LENGTH CORRECTION FACTOR →													0.74	0.79	0.81	0.82	0.84	0.87	0.89		
1.16	6.0	7.0	3026	11.07	12.06	1513	7.65	7.80	1003	5.58	5.75	---	---	6.9	7.9	9.4	11.4	13.4			
1.16	3.4	4.0	3021	5.07	6.15	1510	3.33	3.96	1001	2.45	2.95	7.8	10.3	11.3	12.3	13.8	15.8	17.8			
1.16	4.6	5.4	3016	8.23	9.10	1508	5.40	5.80	999	3.93	4.28	5.8	8.3	9.3	10.3	11.8	13.8	15.8			
1.17	3.2	3.8	2998	4.50	5.64	1499	2.98	3.65	993	2.20	2.72	8.1	10.7	11.7	12.7	14.2	16.2	18.2			
1.18	3.0	3.6	2972	3.92	5.12	1486	2.62	3.34	985	1.95	2.50	8.5	11.0	12.0	13.0	14.5	16.5	18.5			
1.18	4.0	4.8	2959	6.77	7.71	1480	4.40	4.92	981	3.21	3.64	6.7	9.2	10.2	11.2	12.7	14.7	16.7			
1.19	5.0	6.0	2951	9.19	10.04	1476	6.09	6.41	978	4.43	4.73	---	7.5	8.5	9.5	11.0	13.0	15.0			
1.19	3.8	4.6	2938	6.25	7.23	1469	4.06	4.62	974	2.97	3.42	7.0	9.5	10.5	11.5	13.0	15.1	17.1			
1.21	3.4	4.2	2889	5.16	6.24	1444	3.37	4.01	957	2.48	2.98	7.7	10.2	11.2	12.2	13.7	15.7	17.7			
1.22	5.2	6.4	2881	9.66	10.53	1440	6.44	6.73	955	4.68	4.96	---	7.0	8.0	9.0	10.5	12.5	14.5			
1.23	4.0	5.0	2849	6.84	7.78	1425	4.44	4.95	944	3.23	3.66	6.6	9.1	10.1	11.1	12.6	14.6	16.6			
1.23	5.6	7.0	2836	10.48	11.39	1418	7.09	7.31	940	5.16	5.38	---	6.2	7.2	8.2	9.7	11.7	13.7			
1.24	3.0	3.8	2830	4.02	5.21	1415	2.67	3.38	938	1.98	2.53	8.3	10.8	11.8	12.8	14.3	16.3	18.3			
1.24	3.8	4.8	2824	6.32	7.30	1412	4.10	4.65	936	2.99	3.44	6.9	9.4	10.4	11.4	12.9	14.9	16.9			
1.24	4.6	5.8	2820	8.36	9.23	1410	5.47	5.87	935	3.97	4.33	5.5	8.0	9.0	10.0	11.5	13.5	15.5			
1.25	5.2	6.6	2798	9.71	10.57	1399	6.46	6.75	927	4.70	4.97	---	6.9	7.9	8.9	10.4	12.4	14.4			
1.26	4.2	5.4	2773	7.40	8.31	1387	4.80	5.28	919	3.50	3.90	6.1	8.6	9.6	10.6	12.1	14.1	16.1			
1.27	6.4	8.2	2766	11.86	12.98	1383	8.35	8.44	917	6.10	6.22	---	---	---	---	8.1	10.1	12.2			
1.27	4.8	6.2	2755	8.86	9.72	1378	5.82	6.18	913	4.23	4.55	---	7.5	8.5	9.5	11.0	13.0	15.0			
1.28	4.6	6.0	2732	8.41	9.28	1366	5.49	5.89	905	3.99	4.34	5.3	7.8	8.8	9.8	11.3	13.3	15.3			
1.29	3.8	5.0	2719	6.38	7.36	1360	4.13	4.68	901	3.01	3.46	6.7	9.2	10.2	11.2	12.7	14.7	16.7			
1.30	3.0	4.0	2701	4.09	5.28	1350	2.71	3.42	895	2.01	2.55	8.1	10.6	11.6	12.6	14.1	16.1	18.1			
1.30	3.6	4.8	2689	5.84	6.87	1345	3.78	4.38	891	2.77	3.24	7.0	9.5	10.5	11.5	13.0	15.0	17.0			
1.31	4.8	6.4	2674	8.90	9.76	1337	5.84	6.20	886	4.24	4.57	---	7.3	8.3	9.3	10.8	12.8	14.8			
1.32	4.0	5.4	2652	6.95	7.89	1326	4.49	5.01	879	3.27	3.70	6.2	8.7	9.7	10.7	12.3	14.3	16.3			
1.32	5.2	7.0	2646	9.79	10.65	1323	6.50	6.79	877	4.72	5.00	---	6.5	7.5	8.5	10.0	12.0	14.0			
1.33	5.6	7.6	2623	10.59	11.50	1311	7.15	7.36	869	5.20	5.42	---	---	6.7	7.7	9.2	11.2	13.3			
1.34	3.2	4.4	2621	4.72	5.86	1311	3.09	3.76	869	2.27	2.80	7.7	10.2	11.2	12.2	13.7	15.7	17.7			
1.34	6.0	8.2	2603	11.31	12.31	1301	7.78	7.93	863	5.66	5.84	---	---	---	6.9	8.4	10.4	12.5			
1.35	4.2	5.8	2594	7.49	8.40	1297	4.85	5.32	860	3.52	3.93	5.7	8.3	9.3	10.3	11.8	13.8	15.8			
ARC-LENGTH CORRECTION FACTOR →													0.74	0.78	0.80	0.82	0.84	0.87	0.89		

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A S-L CLASSIC

AX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	A48 AX48	A51 AX51	A53 AX53	A55 AX55	A60 AX60	A64 AX64	A66 AX66	A68 AX68	A71 AX71	A75 AX75	A78 AX78	A80 AX80	A85 AX85	A90 AX90	A96 AX96	A105 AX105	A112 AX112	A120 AX120	A128 AX128
1.00	19.9	21.4	22.4	23.4	25.9	27.9	28.9	29.9	31.4	33.4	34.9	35.9	38.4	40.9	43.9	48.4	51.9	55.9	59.9
1.00	19.3	20.8	21.8	22.8	25.3	27.3	28.3	29.3	30.8	32.8	34.3	35.3	37.8	40.3	43.3	47.8	51.3	55.3	59.3
1.00	18.7	20.2	21.2	22.2	24.7	26.7	27.7	28.7	30.2	32.2	33.7	34.7	37.2	39.7	42.7	47.2	50.7	54.7	58.7
1.00	18.1	19.6	20.6	21.6	24.1	26.1	27.1	28.1	29.6	31.6	33.1	34.1	36.6	39.1	42.1	46.6	50.1	54.1	58.1
1.00	17.4	18.9	19.9	20.9	23.4	25.4	26.4	27.4	28.9	30.9	32.4	33.4	35.9	38.4	41.4	45.9	49.4	53.4	57.4
1.00	16.8	18.3	19.3	20.3	22.8	24.8	25.8	26.8	28.3	30.3	31.8	32.8	35.3	37.8	40.8	45.3	48.8	52.8	56.8
1.00	16.5	18.0	19.0	20.0	22.5	24.5	25.5	26.5	28.0	30.0	31.5	32.5	35.0	37.5	40.5	45.0	48.5	52.5	56.5
1.00	15.2	16.7	17.7	18.7	21.2	23.2	24.2	25.2	26.7	28.7	30.2	31.2	33.7	36.2	39.2	43.7	47.2	51.2	55.2
1.00	13.7	15.2	16.2	17.2	19.7	21.7	22.7	23.7	25.2	27.2	28.7	29.7	32.2	34.7	37.7	42.2	45.7	49.7	53.7
1.03	15.7	17.2	18.2	19.2	21.7	23.7	24.7	25.7	27.2	29.2	30.7	31.7	34.2	36.7	39.7	44.2	47.7	51.7	55.7
1.04	16.6	18.1	19.1	20.1	22.6	24.6	25.6	26.6	28.1	30.1	31.6	32.6	35.1	37.6	40.6	45.1	48.6	52.6	56.6
1.04	17.9	19.4	20.4	21.4	23.9	25.9	26.9	27.9	29.4	31.4	32.9	33.9	36.4	38.9	41.9	46.4	49.9	53.9	57.9
1.05	18.8	20.3	21.3	22.3	24.8	26.8	27.8	28.8	30.3	32.3	33.8	34.8	37.3	39.8	42.8	47.3	50.8	54.8	58.8
1.06	19.8	21.3	22.3	23.3	25.8	27.8	28.8	29.8	31.3	33.3	34.8	35.8	38.3	40.8	43.8	48.3	51.8	55.8	59.8
1.06	14.9	16.4	17.4	18.4	20.9	22.9	23.9	24.9	26.4	28.4	29.9	30.9	33.4	35.9	38.9	43.4	46.9	50.9	54.9
1.07	16.2	17.7	18.7	19.7	22.2	24.2	25.2	26.2	27.7	29.7	31.2	32.2	34.7	37.2	40.2	44.7	48.2	52.2	56.2
1.08	17.1	18.6	19.6	20.6	23.1	25.1	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
1.09	18.1	19.6	20.6	21.6	24.1	26.1	27.1	28.1	29.6	31.6	33.1	34.1	36.6	39.1	42.1	46.6	50.1	54.1	58.1
1.09	14.8	16.3	17.3	18.3	20.8	22.8	23.8	24.8	26.3	28.3	29.8	30.8	33.3	35.8	38.8	43.3	46.8	50.8	54.8
1.10	15.4	16.9	17.9	18.9	21.4	23.4	24.4	25.4	26.9	28.9	30.4	31.4	33.9	36.4	39.4	43.9	47.4	51.4	55.4
1.10	18.7	20.2	21.2	22.2	24.7	26.7	27.7	28.7	30.2	32.2	33.7	34.7	37.2	39.7	42.7	47.2	50.7	54.7	58.7
1.11	16.0	17.5	18.5	19.5	22.0	24.0	25.0	26.0	27.5	29.5	31.0	32.0	34.5	37.0	40.0	44.5	48.0	52.0	56.0
1.11	19.3	20.8	21.8	22.8	25.3	27.3	28.3	29.3	30.8	32.8	34.3	35.3	37.8	40.3	43.3	47.8	51.3	55.3	59.3
1.12	16.6	18.1	19.1	20.1	22.6	24.6	25.6	26.6	28.1	30.1	31.6	32.6	35.1	37.6	40.6	45.1	48.6	52.6	56.6
1.12	19.6	21.1	22.1	23.1	25.6	27.6	28.6	29.6	31.1	33.1	34.6	35.6	38.1	40.6	43.6	48.1	51.6	55.6	59.6
1.13	17.6	19.1	20.1	21.1	23.6	25.6	26.6	27.6	29.1	31.1	32.6	33.6	36.1	38.6	41.6	46.1	49.6	53.6	57.6
1.13	15.2	16.7	17.7	18.7	21.2	23.2	24.2	25.2	26.7	28.7	30.2	31.2	33.7	36.2	39.2	43.7	47.2	51.2	55.2
1.14	18.2	19.7	20.7	21.7	24.2	26.2	27.2	28.2	29.7	31.7	33.2	34.2	36.7	39.2	42.2	46.7	50.2	54.2	58.2
1.15	16.2	17.7	18.7	19.7	22.2	24.2	25.2	26.2	27.7	29.7	31.2	32.2	34.7	37.2	40.2	44.7	48.2	52.2	56.2
1.15	18.5	20.0	21.0	22.0	24.5	26.5	27.5	28.5	30.0	32.0	33.5	34.5	37.0	39.5	42.5	47.0	50.5	54.5	58.5
0.90	0.92	0.93	0.94	0.96	0.97	0.99	1.00	1.01	1.02	1.03	1.04	1.06	1.07	1.09	1.12	1.13	1.15	1.17	
1.16	14.4	15.9	16.9	17.9	20.4	22.4	23.4	24.4	25.9	27.9	29.4	30.4	32.9	35.4	38.4	42.9	46.4	50.4	54.4
1.16	18.8	20.3	21.3	22.3	24.8	26.8	27.8	28.8	30.3	32.3	33.8	34.8	37.3	39.8	42.8	47.3	50.8	54.8	58.8
1.16	16.8	18.3	19.3	20.3	22.8	24.8	25.8	26.8	28.3	30.3	31.8	32.8	35.3	37.8	40.8	45.3	48.8	52.8	56.8
1.17	19.2	20.7	21.7	22.7	25.2	27.2	28.2	29.2	30.7	32.7	34.2	35.2	37.7	40.2	43.2	47.7	51.2	55.2	59.2
1.18	19.5	21.0	22.0	23.0	25.5	27.5	28.5	29.5	31.0	33.0	34.5	35.5	38.0	40.5	43.5	48.0	51.5	55.5	59.5
1.18	17.7	19.2	20.2	21.2	23.7	25.7	26.7	27.7	29.2	31.2	32.7	33.7	36.2	38.7	41.7	46.2	49.7	53.7	57.7
1.19	16.0	17.5	18.5	19.5	22.0	24.0	25.0	26.0	27.5	29.5	31.0	32.0	34.5	37.0	40.0	44.5	48.0	52.0	56.0
1.19	18.1	19.6	20.6	21.6	24.1	26.1	27.1	28.1	29.6	31.6	33.1	34.1	36.6	39.1	42.1	46.6	50.1	54.1	58.1
1.21	18.7	20.2	21.2	22.2	24.7	26.7	27.7	28.7	30.2	32.2	33.7	34.7	37.2	39.7	42.7	47.2	50.7	54.7	58.7
1.22	15.5	17.0	18.0	19.0	21.5	23.5	24.5	25.5	27.0	29.0	30.5	31.5	34.0	36.5	39.5	44.0	47.5	51.5	55.5
1.23	17.6	19.1	20.1	21.1	23.6	25.6	26.6	27.6	29.1	31.1	32.6	33.6	36.1	38.6	41.6	46.1	49.6	53.6	57.6
1.23	14.7	16.2	17.2	18.2	20.7	22.7	23.7	24.7	26.2	28.2	29.7	30.7	33.2	35.7	38.7	43.2	46.7	50.7	54.7
1.24	19.3	20.8	21.8	22.8	25.3	27.3	28.3	29.3	30.8	32.8	34.3	35.3	37.8	40.3	43.3	47.8	51.3	55.3	59.3
1.24	17.9	19.4	20.4	21.4	23.9	25.9	26.9	27.9	29.4	31.4	32.9	33.9	36.4	38.9	41.9	46.4	49.9	53.9	57.9
1.24	16.5	18.0	19.0	20.0	22.5	24.5	25.5	26.5	28.0	30.0	31.5	32.5	35.0	37.5	40.5	45.0	48.5	52.5	56.5
1.25	15.4	16.9	17.9	18.9	21.4	23.4	24.4	25.4	26.9	28.9	30.4	31.4	33.9	36.4	39.4	43.9	47.4	51.4	55.4
1.26	17.1	18.6	19.6	20.6	23.1	25.1	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
1.27	13.2	14.7	15.7	16.7	19.2	21.2	22.2	23.2	24.7	26.7	28.2	29.2	31.7	34.2	37.2	41.7	45.2	49.2	53.2
1.27	16.0	17.5	18.5	19.5	22.0	24.0	25.0	26.0	27.5	29.5	31.0	32.0	34.5	37.0	40.0	44.5	48.0	52.0	56.0
1.28	16.3	17.8	18.8	19.8	22.3	24.3	25.3	26.3	27.8	29.8	31.3	32.3	34.8	37.3	40.3	44.8	48.3	52.3	56.3
1.29	17.7	19.2	20.2	21.2	23.7	25.7	26.7	27.7	29.2	31.2	32.7	33.7	36.2	38.7	41.7	46.2	49.7	53.7	57.7
1.30	19.1	20.6	21.6	22.6	25.1	27.1	28.1	29.1	30.6	32.6	34.1	35.1	37.6	40.1	43.1	47.6	51.1	55.1	59.1
1.30	18.0	19.5	20.5	21.5	24.0	26.0	27.0	28.0	29.5	31.5	33.0	34.0	36.5	39.0	42.0	46.5	50.0	54.0	58.0
1.31	15.8	17.3	18.3	19.3	21.8	23.8	24.8	25.8	27.3	29.3	30.8	31.8	34.3	36.8	39.8	44.3	47.8	51.8	55.8
1.32	17.3	18.8	19.8	20.8	23.3	25.3	26.3	27.3	28.8	30.8	32.3	33.3	35.8	38.3	41.3	45.8	49.3	53.3	57.3
1.32	15.0	16.5	17.5	18.5	21.0	23.0	24.0	25.0	26.5	28.5	30.0	31.0	33.5	36.0	39.0	43.5	47.0	51.0	55.0
1.33	14.3	15.8	16.8	17.8	20.3	22.3	23.3	24.3	25.8	27.8	29.3	30.3	32.8	35.3	38.3	42.8	46.3	50.3	54.3
1.34	18.7	20.2	21.2	22.2	24.7	26.7	27.7	28.7	30.2	32.2	33.7	34.7	37.2	39.7	42.7	47.2	50.7	54.7	58.7
1.34	13.5	15.0	16.0	17.0	19.5	21.5	22.5	23.5	25.0	27.0	28.5	29.5	32.0	34.5	37.5	42.0	45.5	49.5	53.5
1.35	16.8	18.3	19.3	20.3	22.8	24.8	25.8	26.8	28.3	30.3	31.8	32.8	35.3	37.8	40.8	45.3	48.8	52.8	56.8
0.90	0.92	0.93	0.94	0.96	0.97	0.99	1.00	1.01	1.02	1.03	1.04	1.06	1.07	1.09	1.11	1.13	1.15	1.17	



SELECTION



TORQUE-TAWER

Bushings

V-Drives

FHP

Drives Component Accessories

A S-L CLASSIC

AX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance						
	Driver	Driven	Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		A26 AX26	A31 AX31	A33 AX33	A35 AX35	A38 AX38	A42 AX42	A46 AX46
				A	AX		A	AX		A	AX							
1.36	3.0	4.2	2583	4.14	5.34	1291	2.73	3.44	856	2.02	2.57	8.0	10.5	11.5	12.5	14.0	16.0	18.0
1.36	4.6	6.4	2571	8.48	9.35	1285	5.53	5.93	852	4.01	4.37	---	7.5	8.5	9.5	11.0	13.0	15.0
1.37	5.0	7.0	2551	9.40	10.26	1276	6.19	6.52	846	4.50	4.80	---	6.7	7.7	8.7	10.2	12.2	14.2
1.38	3.8	5.4	2531	6.46	7.45	1266	4.17	4.72	839	3.04	3.49	6.4	8.9	9.9	10.9	12.4	14.4	16.4
1.38	6.4	9.0	2530	11.97	13.09	1265	8.41	8.49	838	6.13	6.25	---	---	---	---	7.4	9.5	11.5
1.40	4.6	6.6	2497	8.51	9.38	1249	5.54	5.94	828	4.02	4.38	---	7.3	8.3	9.3	10.8	12.8	14.8
1.40	3.6	5.2	2496	5.92	6.95	1248	3.82	4.42	827	2.79	3.27	6.7	9.2	10.2	11.2	12.7	14.7	16.7
1.41	3.0	4.4	2475	4.18	5.38	1237	2.75	3.47	820	2.04	2.58	7.8	10.3	11.3	12.3	13.8	15.8	17.8
1.42	4.8	7.0	2457	8.99	9.85	1228	5.88	6.25	814	4.27	4.60	---	6.8	7.8	8.8	10.3	12.3	14.3
1.43	5.6	8.2	2439	10.66	11.57	1220	7.18	7.40	808	5.22	5.44	---	---	---	7.2	8.7	10.7	12.8
1.44	4.2	6.2	2436	7.55	8.46	1218	4.88	5.35	807	3.54	3.95	5.4	7.9	8.9	9.9	11.4	13.4	15.5
1.45	3.2	4.8	2419	4.80	5.97	1209	3.13	3.80	802	2.30	2.82	7.3	9.8	10.8	11.8	13.3	15.3	17.4
1.47	3.0	4.6	2376	4.22	5.41	1188	2.77	3.48	787	2.05	2.60	7.6	10.2	11.2	12.2	13.7	15.7	17.7
1.48	3.8	5.8	2367	6.52	7.50	1184	4.20	4.75	785	3.06	3.51	6.0	8.6	9.6	10.6	12.1	14.1	16.1
1.48	4.6	7.0	2362	8.56	9.43	1181	5.56	5.97	783	4.04	4.39	---	6.9	8.0	9.0	10.5	12.5	14.5
1.50	4.0	6.2	2330	7.07	8.01	1165	4.55	5.07	772	3.31	3.74	5.5	8.1	9.1	10.1	11.6	13.6	15.6
1.50	3.2	5.0	2329	4.83	5.97	1164	3.14	3.81	772	2.31	2.83	7.2	9.7	10.7	11.7	13.2	15.2	17.2
1.53	3.4	5.4	2289	5.42	6.50	1144	3.50	4.14	759	2.56	3.07	6.7	9.2	10.2	11.2	12.7	14.7	16.7
1.53	3.0	4.8	2284	4.24	5.44	1142	2.78	3.50	757	2.06	2.60	7.5	10.0	11.0	12.0	13.5	15.5	17.5
1.54	5.2	8.2	2276	9.92	10.79	1138	6.57	6.86	754	4.77	5.04	---	---	6.5	7.5	9.0	11.0	13.0
1.55	4.0	6.4	2261	7.08	8.03	1131	4.56	5.08	749	3.32	3.74	5.4	7.9	8.9	9.9	11.4	13.4	15.4
1.56	3.2	5.2	2246	4.85	5.99	1123	3.15	3.82	744	2.32	2.84	7.0	9.5	10.5	11.5	13.0	15.0	17.0
1.57	5.6	9.0	2231	10.73	11.64	1116	7.21	7.43	740	5.24	5.46	---	---	---	---	8.0	10.0	12.1
1.59	3.0	5.0	2199	4.27	5.46	1099	2.79	3.51	729	2.06	2.61	7.3	9.8	10.8	11.8	13.3	15.3	17.3
1.59	4.0	6.6	2196	7.10	8.05	1098	4.57	5.08	728	3.32	3.75	---	7.7	8.7	9.7	11.3	13.3	15.3
1.59	5.0	8.2	2195	9.51	10.37	1097	6.25	6.58	727	4.53	4.84	---	---	6.6	7.6	9.1	11.2	13.2
1.60	3.6	6.0	2183	6.02	7.05	1092	3.87	4.47	724	2.82	3.30	6.0	8.5	9.5	10.5	12.1	14.1	16.1
1.61	4.2	7.0	2172	7.62	8.54	1086	4.91	5.39	720	3.57	3.97	---	7.2	8.2	9.3	10.8	12.8	14.8
1.61	3.2	5.4	2168	4.87	6.01	1084	3.16	3.83	718	2.32	2.85	6.8	9.3	10.3	11.3	12.9	14.9	16.9
1.65	3.0	5.2	2120	4.28	5.48	1060	2.80	3.52	703	2.07	2.62	7.1	9.7	10.7	11.7	13.2	15.2	17.2
ARC-LENGTH CORRECTION FACTOR →												0.73	0.78	0.80	0.81	0.83	0.86	0.89
1.65	3.6	6.2	2117	6.03	7.06	1059	3.88	4.47	702	2.83	3.31	5.8	8.4	9.4	10.4	11.9	13.9	15.9
1.66	4.8	8.2	2113	9.09	9.95	1057	5.93	6.29	700	4.30	4.63	---	---	6.7	7.8	9.3	11.3	13.3
1.67	3.8	6.6	2096	6.59	7.57	1048	4.23	4.79	695	3.08	3.53	5.3	7.9	8.9	9.9	11.4	13.4	15.4
1.68	5.2	9.0	2082	9.97	10.83	1041	6.59	6.88	690	4.78	5.06	---	---	---	6.7	8.3	10.3	12.4
1.69	3.4	6.0	2074	5.47	6.55	1037	3.53	4.16	687	2.58	3.08	6.1	8.7	9.7	10.7	12.2	14.2	16.2
1.71	3.0	5.4	2047	4.30	5.49	1023	2.81	3.52	678	2.08	2.62	7.0	9.5	10.5	11.5	13.0	15.0	17.0
1.72	6.0	10.6	2034	11.48	12.47	1017	7.86	8.01	674	5.72	5.89	---	---	---	---	---	8.3	10.4
1.72	4.6	8.2	2031	8.64	9.51	1016	5.60	6.01	673	4.07	4.42	---	---	6.9	7.9	9.4	11.5	13.5
1.74	3.4	6.2	2011	5.49	6.57	1005	3.53	4.17	666	2.59	3.09	5.9	8.5	9.5	10.5	12.0	14.0	16.1
1.77	3.8	7.0	1982	6.61	7.59	991	4.24	4.80	657	3.09	3.54	---	7.5	8.5	9.5	11.1	13.1	15.1
1.77	3.0	5.6	1978	4.31	5.51	989	2.82	3.53	656	2.08	2.63	6.8	9.3	10.3	11.3	12.8	14.8	16.8
1.79	3.4	6.4	1951	5.50	6.58	976	3.54	4.17	647	2.59	3.09	5.8	8.3	9.3	10.3	11.9	13.9	15.9
1.81	4.8	9.0	1933	9.12	9.98	966	5.95	6.31	641	4.31	4.64	---	---	---	7.0	8.6	10.6	12.6
1.82	4.0	7.6	1921	7.15	8.10	961	4.59	5.11	637	3.34	3.77	---	6.8	7.8	8.9	10.4	12.4	14.4
1.83	3.0	5.8	1914	4.32	5.52	957	2.82	3.53	634	2.08	2.63	6.6	9.1	10.1	11.2	12.7	14.7	16.7
1.84	5.6	10.6	1906	10.79	11.70	953	7.25	7.46	632	5.26	5.49	---	---	---	---	---	8.6	10.6
1.85	3.4	6.6	1895	5.51	6.58	948	3.54	4.18	628	2.59	3.09	5.6	8.1	9.2	10.2	11.7	13.7	15.7
1.87	4.2	8.2	1868	7.68	8.59	934	4.94	5.42	619	3.59	3.99	---	6.1	7.1	8.2	9.7	11.7	13.8
1.88	4.6	9.0	1858	8.67	9.53	929	5.62	6.02	616	4.07	4.43	---	---	---	7.1	8.7	10.7	12.8
1.89	3.0	6.0	1854	4.33	5.53	927	2.83	3.54	615	2.09	2.63	6.4	9.0	10.0	11.0	12.5	14.5	16.5
1.91	3.8	7.6	1833	6.63	7.62	917	4.25	4.81	608	3.10	3.55	---	6.9	8.0	9.0	10.5	12.6	14.6
1.95	3.0	6.2	1798	4.34	5.53	899	2.83	3.54	596	2.09	2.64	6.2	8.8	9.8	10.8	12.3	14.3	16.3
1.95	3.4	7.0	1793	5.52	6.60	896	3.55	4.18	594	2.60	3.10	5.2	7.8	8.8	9.8	11.3	13.4	15.4
1.96	4.0	8.2	1787	7.17	8.12	893	4.60	5.12	592	3.35	3.77	---	6.2	7.3	8.3	9.8	11.9	13.9
1.97	5.2	10.6	1779	10.01	10.88	889	6.61	6.90	590	4.80	5.07	---	---	---	---	---	8.8	10.9
2.00	6.4	13.2	1747	12.15	13.27	874	8.50	8.58	579	6.19	6.31	---	---	---	---	---	---	---
2.01	3.6	7.6	1746	6.09	7.12	873	3.91	4.50	579	2.85	3.33	---	7.1	8.1	9.1	10.7	12.7	14.7
2.01	3.0	6.4	1745	4.34	5.54	872	2.83	3.55	578	2.09	2.64	6.0	8.6	9.6	10.6	12.2	14.2	16.2
2.04	5.0	10.6	1715	9.59	10.45	857	6.29	6.62	568	4.56	4.86	---	---	---	---	---	9.0	11.0
2.05	3.8	8.2	1705	6.65	7.63	853	4.26	4.82	565	3.10	3.55	---	6.3	7.4	8.4	10.0	12.0	14.1
ARC-LENGTH CORRECTION FACTOR →												0.73	0.78	0.80	0.81	0.83	0.86	0.89

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

A S-L CLASSIC

AX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	A48 AX48	A51 AX51	A53 AX53	A55 AX55	A60 AX60	A64 AX64	A66 AX66	A68 AX68	A71 AX71	A75 AX75	A78 AX78	A80 AX80	A85 AX85	A90 AX90	A96 AX96	A105 AX105	A112 AX112	A120 AX120	A128 AX128
1.36	19.0	20.5	21.5	22.5	25.0	27.0	28.0	29.0	30.5	32.5	34.0	35.0	37.5	40.0	43.0	47.5	51.0	55.0	59.0
1.36	16.0	17.5	18.5	19.5	22.0	24.0	25.0	26.0	27.5	29.5	31.0	32.0	34.5	37.0	40.0	44.5	48.0	52.0	56.0
1.37	15.2	16.7	17.7	18.7	21.2	23.2	24.2	25.2	26.7	28.7	30.2	31.2	33.7	36.2	39.2	43.7	47.2	51.2	55.2
1.38	17.4	18.9	19.9	20.9	23.4	25.4	26.4	27.4	28.9	30.9	32.4	33.4	35.9	38.4	41.4	45.9	49.4	53.4	57.4
1.38	12.5	14.0	15.0	16.0	18.5	20.5	21.5	22.5	24.0	26.0	27.5	28.5	31.0	33.5	36.5	41.0	44.5	48.5	52.5
1.40	15.8	17.3	18.3	19.3	21.8	23.8	24.8	25.8	27.3	29.3	30.8	31.8	34.3	36.8	39.8	44.3	47.8	51.8	55.8
1.40	17.7	19.2	20.2	21.2	23.7	25.7	26.7	27.7	29.2	31.2	32.7	33.7	36.2	38.7	41.7	46.2	49.7	53.7	57.7
1.41	18.8	20.3	21.3	22.3	24.8	26.8	27.8	28.8	30.3	32.3	33.8	34.8	37.3	39.8	42.8	47.3	50.8	54.8	58.8
1.42	15.3	16.9	17.9	18.9	21.4	23.4	24.4	25.4	26.9	28.9	30.4	31.4	33.9	36.4	39.4	43.9	47.4	51.4	55.4
1.43	13.8	15.3	16.3	17.3	19.8	21.8	22.8	23.8	25.3	27.3	28.8	29.8	32.3	34.8	37.8	42.3	45.8	49.8	53.8
1.44	16.5	18.0	19.0	20.0	22.5	24.5	25.5	26.5	28.0	30.0	31.5	32.5	35.0	37.5	40.5	45.0	48.5	52.5	56.5
1.45	18.4	19.9	20.9	21.9	24.4	26.4	27.4	28.4	29.9	31.9	33.4	34.4	36.9	39.4	42.4	46.9	50.4	54.4	58.4
1.47	18.7	20.2	21.2	22.2	24.7	26.7	27.7	28.7	30.2	32.2	33.7	34.7	37.2	39.7	42.7	47.2	50.7	54.7	58.7
1.48	17.1	18.6	19.6	20.6	23.1	25.1	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
1.48	15.5	17.0	18.0	19.0	21.5	23.5	24.5	25.5	27.0	29.0	30.5	31.5	34.0	36.5	39.5	44.0	47.5	51.5	55.5
1.50	16.6	18.1	19.1	20.1	22.6	24.6	25.6	26.6	28.1	30.1	31.6	32.6	35.1	37.6	40.6	45.1	48.6	52.6	56.6
1.50	18.2	19.7	20.7	21.7	24.2	26.2	27.2	28.2	29.7	31.7	33.2	34.2	36.7	39.2	42.2	46.7	50.2	54.2	58.2
1.53	17.7	19.2	20.2	21.2	23.7	25.7	26.7	27.7	29.2	31.2	32.7	33.7	36.2	38.7	41.7	46.2	49.7	53.7	57.7
1.53	18.5	20.0	21.0	22.0	24.5	26.5	27.5	28.5	30.0	32.0	33.5	34.5	37.0	39.5	42.5	47.0	50.5	54.5	58.5
1.54	14.1	15.6	16.6	17.6	20.1	22.1	23.1	24.1	25.6	27.6	29.1	30.1	32.6	35.1	38.1	42.6	46.1	50.1	54.1
1.55	16.4	17.9	18.9	19.9	22.5	24.5	25.5	26.5	28.0	30.0	31.5	32.5	35.0	37.5	40.5	45.0	48.5	52.5	56.5
1.56	18.0	19.5	20.5	21.5	24.0	26.0	27.0	28.0	29.5	31.5	33.0	34.0	36.5	39.0	42.0	46.5	50.0	54.0	58.0
1.57	13.1	14.6	15.6	16.6	19.1	21.1	22.1	23.1	24.6	26.6	28.1	29.1	31.6	34.1	37.2	41.7	45.2	49.2	53.2
1.59	18.3	19.8	20.8	21.8	24.3	26.3	27.3	28.3	29.8	31.8	33.3	34.3	36.8	39.3	42.3	46.8	50.3	54.3	58.3
1.59	16.3	17.8	18.8	19.8	22.3	24.3	25.3	26.3	27.8	29.8	31.3	32.3	34.8	37.3	40.3	44.8	48.3	52.3	56.3
1.59	14.2	15.7	16.7	17.7	20.2	22.2	23.2	24.2	25.7	27.7	29.2	30.2	32.7	35.3	38.3	42.8	46.3	50.3	54.3
1.60	17.1	18.6	19.6	20.6	23.1	25.1	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
1.61	15.8	17.3	18.3	19.3	21.8	23.8	24.8	25.8	27.3	29.3	30.8	31.8	34.3	36.8	39.8	44.3	47.8	51.8	55.8
1.61	17.9	19.4	20.4	21.4	23.9	25.9	26.9	27.9	29.4	31.4	32.9	33.9	36.4	38.9	41.9	46.4	49.9	53.9	57.9
1.65	18.2	19.7	20.7	21.7	24.2	26.2	27.2	28.2	29.7	31.7	33.2	34.2	36.7	39.2	42.2	46.7	50.2	54.2	58.2
0.90	0.91	0.93	0.94	0.96	0.97	0.98	0.99	1.00	1.02	1.03	1.04	1.05	1.07	1.09	1.11	1.13	1.15	1.17	
1.65	16.9	18.4	19.4	20.4	22.9	24.9	25.9	26.9	28.4	30.4	31.9	32.9	35.4	37.9	40.9	45.4	48.9	52.9	56.9
1.66	14.3	15.9	16.9	17.9	20.4	22.4	23.4	24.4	25.9	27.9	29.4	30.4	32.9	35.4	38.4	42.9	46.4	50.4	54.4
1.67	16.4	17.9	18.9	19.9	22.4	24.4	25.4	26.4	28.0	30.0	31.5	32.5	35.0	37.5	40.5	45.0	48.5	52.5	56.5
1.68	13.4	14.9	15.9	16.9	19.4	21.4	22.4	23.4	24.9	26.9	28.4	29.4	31.9	34.5	37.5	42.0	45.5	49.5	53.5
1.69	17.2	18.7	19.7	20.7	23.2	25.2	26.2	27.2	28.7	30.7	32.2	33.2	35.7	38.2	41.3	45.8	49.3	53.3	57.3
1.71	18.0	19.5	20.5	21.5	24.0	26.0	27.0	28.0	29.5	31.5	33.0	34.0	36.5	39.0	42.0	46.5	50.0	54.0	58.0
1.72	11.4	12.9	13.9	14.9	17.5	19.5	20.5	21.5	23.0	25.0	26.5	27.5	30.0	32.5	35.5	40.1	43.6	47.6	51.6
1.72	14.5	16.0	17.0	18.0	20.5	22.5	23.5	24.5	26.0	28.0	29.5	30.5	33.1	35.6	38.6	43.1	46.6	50.6	54.6
1.74	17.1	18.6	19.6	20.6	23.1	25.1	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
1.77	16.1	17.6	18.6	19.6	22.1	24.1	25.1	26.1	27.6	29.6	31.1	32.1	34.6	37.1	40.1	44.6	48.1	52.1	56.1
1.77	17.9	19.4	20.4	21.4	23.9	25.9	26.9	27.9	29.4	31.4	32.9	33.9	36.4	38.9	41.9	46.4	49.9	53.9	57.9
1.79	16.9	18.4	19.4	20.4	22.9	24.9	25.9	26.9	28.4	30.4	31.9	32.9	35.4	37.9	40.9	45.4	48.9	52.9	56.9
1.81	13.7	15.2	16.2	17.2	19.7	21.7	22.7	23.7	25.2	27.2	28.7	29.7	32.2	34.8	37.8	42.3	45.8	49.8	53.8
1.82	15.4	16.9	18.0	19.0	21.5	23.5	24.5	25.5	27.0	29.0	30.5	31.5	34.0	36.5	39.5	44.0	47.5	51.5	55.5
1.83	17.7	19.2	20.2	21.2	23.7	25.7	26.7	27.7	29.2	31.2	32.7	33.7	36.2	38.7	41.7	46.2	49.7	53.7	57.7
1.84	11.7	13.2	14.2	15.2	17.8	19.8	20.8	21.8	23.3	25.3	26.8	27.8	30.3	32.8	35.8	40.3	43.8	47.8	51.9
1.85	16.7	18.2	19.2	20.2	22.7	24.7	25.8	26.8	28.3	30.3	31.8	32.8	35.3	37.8	40.8	45.3	48.8	52.8	56.8
1.87	14.8	16.3	17.3	18.3	20.8	22.8	23.8	24.8	26.3	28.3	29.8	30.9	33.4	35.9	38.9	43.4	46.9	50.9	54.9
1.88	13.8	15.3	16.3	17.3	19.9	21.9	22.9	23.9	25.4	27.4	28.9	29.9	32.4	34.9	37.9	42.4	45.9	49.9	53.9
1.89	15.5	17.0	18.0	19.0	21.5	23.5	24.5	25.5	27.0	29.0	30.5	31.5	34.0	36.5	39.5	44.0	47.5	51.5	55.5
1.91	15.6	17.1	18.1	19.1	21.6	23.6	24.6	25.6	27.1	29.1	30.6	31.6	34.1	36.7	39.7	44.2	47.7	51.7	55.7
1.95	17.4	18.9	19.9	20.9	23.4	25.4	26.4	27.4	28.9	30.9	32.4	33.4	35.9	38.4	41.4	45.9	49.4	53.4	57.4
1.95	16.4	17.9	18.9	19.9	22.4	24.4	25.4	26.4	27.9	29.9	31.4	32.4	34.9	37.4	40.4	44.9	48.5	52.5	56.5
1.96	14.9	16.4	17.4	18.5	21.0	23.0	24.0	25.0	26.5	28.5	30.0	31.0	33.5	36.0	39.0	43.5	47.0	51.0	55.0
1.97	11.9	13.5	14.5	15.5	18.0	20.0	21.0	22.1	23.6	25.6	27.1	28.1	30.6	33.1	36.1	40.7	44.2	48.2	52.2
2.00	---	10.2	11.3	12.3	14.9	16.9	17.9	19.0	20.5	22.5	24.0	25.0	27.6	30.1	33.1	37.6	41.1	45.1	49.1
2.01	15.7	17.2	18.2	19.3	21.8	23.8	24.8	25.8	27.3	29.3	30.8	31.8	34.3	36.8	39.8	44.3	47.8	51.8	55.8
2.01	17.2	18.7	19.7	20.7	23.2	25.2	26.2	27.2	28.7	30.7	32.2	33.2	35.7	38.2	41.2	45.7	49.2	53.2	57.2
2.04	12.1	13.6	14.6	15.7	18.2	20.2	21.2	22.2	23.7	25.8	27.3	28.3	30.8	33.3	36.3	40.8	44.3	48.3	52.3
2.05	15.1	16.6	17.6	18.6	21.1	23.1	24.1	25.1	26.6	28.6	30.1	31.2	33.7	36.2	39.2	43.7	47.2	51.2	55.2
.89	0.90	0.92	0.93	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.05	1.06	1.08	1.11	1.13	1.14	1.16	

Bushings

V-Drives

FHP



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A	S-L CLASSIC	AX	CLASSIC COG	STOCK DRIVE SELECTIONS
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Ratio	Stock Shv. Datum Diam.		3500 RPM Driver				1750 RPM Driver				1160 RPM Driver				Belt Size/Center Distance									
	Driver		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		A26 AX26	A31 AX31	A33 AX33	A35 AX35	A38 AX38	A42 AX42	A46 AX46						
	Driver	Driven		A	AX		A	AX		A	AX													
2.07	3.0	6.6	1695	4.35	5.55	847	2.84	3.55	562	2.09	2.64	5.8	8.4	9.4	10.5	12.0	14.0	16.0						
2.07	5.6	12.0	1691	10.82	11.73	845	7.26	7.48	560	5.27	5.50	---	---	---	---	---	---	9.3						
2.11	3.4	7.6	1658	5.53	6.61	829	3.56	4.19	549	2.60	3.10	---	7.2	8.2	9.3	10.8	12.8	14.9						
2.12	4.8	10.6	1651	9.15	10.01	826	5.96	6.33	547	4.32	4.65	---	---	---	---	7.0	9.1	11.2						
2.13	6.0	13.2	1644	11.53	12.53	822	7.89	8.04	545	5.74	5.91	---	---	---	---	---	---	---						
2.14	4.0	9.0	1634	7.19	8.13	817	4.61	5.13	542	3.35	3.78	---	---	6.5	7.5	9.1	11.2	13.2						
2.16	3.6	8.2	1624	6.11	7.13	812	3.91	4.51	538	2.85	3.33	---	6.5	7.5	8.6	10.1	12.2	14.2						
2.18	3.0	7.0	1603	4.36	5.55	801	2.84	3.55	531	2.09	2.64	5.4	8.1	9.1	10.1	11.6	13.7	15.7						
2.20	4.6	10.6	1587	8.70	9.56	794	5.63	6.04	526	4.08	4.44	---	---	---	---	7.1	9.2	11.3						
2.22	5.2	12.0	1578	10.03	10.90	789	6.62	6.91	523	4.80	5.08	---	---	---	---	---	---	9.5						
2.23	3.2	7.6	1570	4.96	6.10	785	3.20	3.88	520	2.35	2.88	---	7.3	8.4	9.4	11.0	13.0	15.0						
2.27	3.4	8.2	1542	5.55	6.62	771	3.56	4.20	511	2.60	3.11	---	6.6	7.7	8.7	10.3	12.3	14.3						
2.30	5.0	12.0	1521	9.61	10.47	761	6.30	6.63	504	4.57	4.87	---	---	---	---	---	---	9.7						
2.36	3.6	9.0	1485	6.12	7.15	743	3.92	4.51	492	2.86	3.33	---	---	6.7	7.8	9.4	11.4	13.5						
2.36	3.0	7.6	1482	4.37	5.56	741	2.85	3.56	491	2.10	2.65	---	7.5	8.5	9.6	11.1	13.1	15.2						
2.39	4.8	12.0	1464	9.17	10.03	732	5.97	6.34	485	4.33	4.66	---	---	---	---	---	---	9.8						
2.40	3.2	8.2	1460	4.97	6.10	730	3.21	3.88	484	2.35	2.88	---	6.7	7.8	8.8	10.4	12.4	14.5						
2.40	4.2	10.6	1460	7.72	8.63	730	4.96	5.44	484	3.60	4.00	---	---	---	---	7.3	9.5	11.6						
2.43	5.2	13.2	1438	10.05	10.91	719	6.63	6.92	477	4.81	5.08	---	---	---	---	---	---	---						
2.48	3.4	9.0	1410	5.55	6.63	705	3.57	4.20	467	2.61	3.11	---	---	6.8	7.9	9.5	11.6	13.6						
2.49	4.6	12.0	1408	8.71	9.58	704	5.64	6.04	467	4.09	4.44	---	---	---	---	---	7.7	9.9						
2.51	4.0	10.6	1396	7.21	8.15	698	4.62	5.14	463	3.36	3.79	---	---	---	---	7.5	9.6	11.7						
2.52	5.0	13.2	1387	9.62	10.48	693	6.30	6.63	460	4.57	4.87	---	---	---	---	---	---	---						
2.54	3.0	8.2	1379	4.38	5.57	689	2.85	3.56	457	2.10	2.65	---	6.9	7.9	9.0	10.5	12.6	14.6						
2.57	5.6	15.0	1361	10.85	11.75	680	7.27	7.49	451	5.28	5.50	---	---	---	---	---	---	---						
2.62	3.2	9.0	1336	4.98	6.11	668	3.21	3.89	443	2.36	2.88	---	5.9	7.0	8.1	9.6	11.7	13.8						
2.62	4.8	13.2	1335	9.18	10.04	668	5.98	6.34	442	4.33	4.66	---	---	---	---	---	---	8.5						
2.63	3.8	10.6	1332	6.68	7.66	666	4.28	4.83	442	3.11	3.56	---	---	---	---	7.6	9.8	11.9						
2.67	5.6	15.6	1310	10.85	11.76	655	7.27	7.49	434	5.28	5.51	---	---	---	---	---	---	---						
2.70	4.2	12.0	1295	7.73	8.65	647	4.97	5.45	429	3.60	4.01	---	---	---	---	---	8.0	10.2						
ARC-LENGTH CORRECTION FACTOR →																		0.70	0.75	0.76	0.79	0.80	0.81	0.84
2.71	6.4	18.0	1291	12.19	13.31	646	8.51	8.60	428	6.20	6.33	---	---	---	---	---	---	---						
2.73	4.6	13.2	1284	8.72	9.59	642	5.64	6.05	425	4.09	4.45	---	---	---	---	---	---	8.6						
2.76	3.6	10.6	1269	6.13	7.16	634	3.93	4.52	420	2.86	3.34	---	---	---	---	7.7	9.9	12.0						
2.78	3.0	9.0	1261	4.38	5.58	631	2.85	3.56	418	2.10	2.65	---	6.0	7.1	8.2	9.8	11.9	13.9						
2.83	4.0	12.0	1238	7.22	8.16	619	4.63	5.14	410	3.36	3.79	---	---	---	---	---	8.1	10.3						
2.86	5.0	15.0	1224	9.63	10.49	612	6.31	6.64	406	4.57	4.88	---	---	---	---	---	---	---						
2.88	6.0	18.0	1215	11.57	12.56	607	7.90	8.05	403	5.75	5.92	---	---	---	---	---	---	---						
2.90	3.4	10.6	1205	5.57	6.65	602	3.57	4.21	399	2.61	3.11	---	---	---	---	7.8	10.0	12.1						
2.96	3.8	12.0	1182	6.69	7.67	591	4.28	4.84	392	3.11	3.57	---	---	---	---	---	8.2	10.4						
2.97	4.8	15.0	1179	9.19	10.05	589	5.98	6.34	391	4.33	4.66	---	---	---	---	---	---	---						
3.07	3.2	10.6	1141	4.99	6.12	571	3.22	3.89	378	2.36	2.88	---	---	---	6.2	8.0	10.1	12.3						
3.09	4.6	15.0	1133	8.72	9.59	567	5.65	6.05	376	4.09	4.45	---	---	---	---	---	---	---						
3.10	4.0	13.2	1129	7.22	8.17	564	4.63	5.14	374	3.36	3.79	---	---	---	---	---	---	9.0						
3.11	3.6	12.0	1125	6.14	7.17	563	3.93	4.52	373	2.86	3.34	---	---	---	---	---	8.3	10.6						
3.13	6.0	19.6	1118	11.57	12.56	559	7.91	8.06	370	5.75	5.92	---	---	---	---	---	---	---						
3.21	4.6	15.6	1091	8.73	9.60	545	5.65	6.05	362	4.10	4.45	---	---	---	---	---	---	---						
3.25	3.0	10.6	1077	4.39	5.59	539	2.86	3.57	357	2.11	2.65	---	---	---	6.3	8.1	10.3	12.4						
3.25	3.8	13.2	1077	6.69	7.67	539	4.28	4.84	357	3.11	3.57	---	---	---	---	---	---	9.1						
3.29	5.2	18.0	1063	10.07	10.93	531	6.64	6.93	352	4.81	5.09	---	---	---	---	---	---	---						
3.36	4.2	15.0	1042	7.74	8.66	521	4.97	5.45	345	3.61	4.01	---	---	---	---	---	---	---						
3.41	3.6	13.2	1026	6.14	7.17	513	3.93	4.53	340	2.87	3.34	---	---	---	---	---	---	9.2						
3.42	5.0	18.0	1024	9.64	10.50	512	6.31	6.64	340	4.58	4.88	---	---	---	---	---	---	---						
3.46	3.2	12.0	1012	4.99	6.13	506	3.22	3.89	335	2.36	2.89	---	---	---	---	---	8.6	10.8						
3.49	4.2	15.6	1003	7.75	8.66	502	4.97	5.45	332	3.61	4.01	---	---	---	---	---	---	---						
3.51	4.0	15.0	997	7.23	8.17	498	4.63	5.15	330	3.36	3.79	---	---	---	---	---	---	---						
3.55	4.8	18.0	986	9.19	10.05	493	5.98	6.35	327	4.34	4.66	---	---	---	---	---	---	---						
3.58	5.2	19.6	977	10.07	10.93	489	6.64	6.93	324	4.81	5.09	---	---	---	---	---	---	---						
3.59	3.4	13.2	974	5.58	6.66	487	3.58	4.21	323	2.62	3.12	---	---	---	---	---	---	9.3						
3.65	4.0	15.6	959	7.23	8.17	480	4.63	5.15	318	3.36	3.79	---	---	---	---	---	---	---						
3.66	3.0	12.0	956	4.40	5.59	478	2.86	3.57	317	2.11	2.65	---	---	---	---	---	8.7	11.0						
ARC-LENGTH CORRECTION FACTOR →																		---	0.71	0.73	0.75	0.77	0.77	0.81

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A S-L CLASSIC

AX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	A48 AX48	A51 AX51	A53 AX53	A55 AX55	A60 AX60	A64 AX64	A66 AX66	A68 AX68	A71 AX71	A75 AX75	A78 AX78	A80 AX80	A85 AX85	A90 AX90	A96 AX96	A105 AX105	A112 AX112	A120 AX120	A128 AX128
2.07	17.0	18.5	19.5	20.5	23.0	25.0	26.1	27.1	28.6	30.6	32.1	33.1	35.6	38.1	41.1	45.6	49.1	53.1	57.1
2.07	10.3	11.9	12.9	14.0	16.5	18.6	19.6	20.6	22.1	24.1	25.6	26.6	29.2	31.7	34.7	39.2	42.7	46.7	50.7
2.11	15.9	17.4	18.4	19.4	21.9	23.9	24.9	25.9	27.4	29.4	30.9	31.9	34.5	37.0	40.0	44.5	48.0	52.0	56.0
2.12	12.2	13.8	14.8	15.8	18.3	20.4	21.4	22.4	23.9	25.9	27.4	28.4	30.9	33.4	36.4	41.0	44.5	48.5	52.5
2.13	---	10.5	11.5	12.6	15.2	17.2	18.2	19.2	20.8	22.8	24.3	25.3	27.8	30.4	33.4	37.9	41.4	45.4	49.4
2.14	14.2	15.7	16.8	17.8	20.3	22.3	23.3	24.3	25.8	27.8	29.3	30.3	32.8	35.4	38.4	42.9	46.4	50.4	54.4
2.16	15.2	16.7	17.7	18.7	21.3	23.3	24.3	25.3	26.8	28.8	30.3	31.3	33.8	36.3	39.3	43.8	47.3	51.3	55.3
2.18	16.7	18.2	19.2	20.2	22.7	24.7	25.7	26.7	28.2	30.2	31.7	32.7	35.2	37.7	40.8	45.3	48.8	52.8	56.8
2.20	12.4	13.9	14.9	15.9	18.5	20.5	21.5	22.5	24.0	26.0	27.6	28.6	31.1	33.6	36.6	41.1	44.6	48.6	52.6
2.22	10.6	12.2	13.2	14.2	16.8	18.8	19.9	20.9	22.4	24.4	25.9	26.9	29.5	32.0	35.0	39.5	43.0	47.0	51.0
2.23	16.0	17.5	18.5	19.5	22.1	24.1	25.1	26.1	27.6	29.6	31.1	32.1	34.6	37.1	40.1	44.6	48.1	52.1	56.1
2.27	15.4	16.9	17.9	18.9	21.4	23.4	24.4	25.4	26.9	28.9	30.4	31.5	34.0	36.5	39.5	44.0	47.5	51.5	55.5
2.30	10.7	12.3	13.3	14.4	16.9	19.0	20.0	21.0	22.5	24.6	26.1	27.1	29.6	32.1	35.1	39.7	43.2	47.2	51.2
2.36	14.5	16.0	17.0	18.1	20.6	22.6	23.6	24.6	26.1	28.1	29.6	30.6	33.1	35.7	38.7	43.2	46.7	50.7	54.7
2.36	16.2	17.7	18.7	19.7	22.2	24.2	25.2	26.2	27.7	29.7	31.2	32.2	34.8	37.3	40.3	44.8	48.3	52.3	56.3
2.39	10.9	12.4	13.5	14.5	17.1	19.1	20.1	21.2	22.7	24.7	26.2	27.2	29.7	32.3	35.3	39.8	43.3	47.3	51.3
2.40	15.5	17.0	18.0	19.0	21.6	23.6	24.6	25.6	27.1	29.1	30.6	31.6	34.1	36.6	39.6	44.1	47.6	51.6	55.6
2.40	12.6	14.2	15.2	16.2	18.8	20.8	21.8	22.8	24.3	26.3	27.8	28.9	31.4	33.9	36.9	41.4	44.9	48.9	52.9
2.43	9.4	11.0	12.0	13.1	15.7	17.8	18.8	19.8	21.3	23.4	24.9	25.9	28.4	30.9	34.0	38.5	42.0	46.0	50.0
2.48	14.6	16.2	17.2	18.2	20.7	22.7	23.8	24.8	26.3	28.3	29.8	30.8	33.3	35.8	38.8	43.3	46.8	50.8	54.8
2.49	11.0	12.6	13.6	14.7	17.2	19.3	20.3	21.3	22.8	24.8	26.4	27.4	29.9	32.4	35.4	39.9	43.5	47.5	51.5
2.51	12.8	14.3	15.3	16.4	18.9	20.9	21.9	23.0	24.5	26.5	28.0	29.0	31.5	34.0	37.0	41.6	45.1	49.1	53.1
2.52	9.5	11.1	12.2	13.2	15.8	17.9	18.9	19.9	21.5	23.5	25.0	26.0	28.6	31.1	34.1	38.6	42.2	46.2	50.2
2.54	15.6	17.2	18.2	19.2	21.7	23.7	24.7	25.7	27.2	29.2	30.7	31.8	34.3	36.8	39.8	44.3	47.8	51.8	55.8
2.57	---	---	9.9	11.0	13.7	15.8	16.8	17.9	19.4	21.5	23.0	24.0	26.6	29.1	32.1	36.7	40.2	44.2	48.3
2.62	14.8	16.3	17.3	18.3	20.9	22.9	23.9	24.9	26.4	28.4	29.9	30.9	33.4	36.0	39.0	43.5	47.0	51.0	55.0
2.62	9.6	11.2	12.3	13.4	16.0	18.0	19.1	20.1	21.6	23.6	25.2	26.2	28.7	31.2	34.3	38.8	42.3	46.3	50.3
2.63	12.9	14.4	15.5	16.5	19.0	21.1	22.1	23.1	24.6	26.6	28.1	29.1	31.7	34.2	37.2	41.7	45.2	49.2	53.2
2.67	---	---	---	---	13.1	15.2	16.2	17.3	18.8	20.9	22.5	23.5	26.0	28.6	31.6	36.2	39.7	43.7	47.7
2.70	11.3	12.8	13.9	14.9	17.5	19.5	20.6	21.6	23.1	25.1	26.6	27.7	30.2	32.7	35.7	40.2	43.8	47.8	51.8
0.86	0.88	0.89	0.90	0.93	0.94	0.96	0.97	0.99	1.00	1.01	1.02	1.04	1.05	1.07	1.10	1.12	1.14	1.16	
2.71	---	---	---	---	12.1	13.2	14.3	15.9	18.1	19.6	20.7	23.3	25.8	28.9	33.5	37.0	41.1	45.1	49.1
2.73	9.7	11.4	12.4	13.5	16.1	18.2	19.2	20.2	21.8	23.8	25.3	26.3	28.9	31.4	34.4	38.9	42.5	46.5	50.5
2.76	13.0	14.6	15.6	16.6	19.2	21.2	22.2	23.2	24.8	26.8	28.3	29.3	31.8	34.3	37.3	41.9	45.4	49.4	53.4
2.78	14.9	16.5	17.5	18.5	21.0	23.0	24.0	25.1	26.6	28.6	30.1	31.1	33.6	36.1	39.1	43.6	47.1	51.1	55.1
2.83	11.4	13.0	14.0	15.1	17.6	19.7	20.7	21.7	23.2	25.3	26.8	27.8	30.3	32.8	35.9	40.4	43.9	47.9	51.9
2.86	---	---	10.2	11.3	14.1	16.2	17.2	18.3	19.8	21.9	23.4	24.4	27.0	29.5	32.6	37.1	40.6	44.7	48.7
2.88	---	---	---	---	12.4	13.5	14.6	16.2	18.3	19.9	21.0	23.5	26.1	29.2	33.8	37.3	41.4	45.4	49.4
2.90	13.2	14.7	15.7	16.8	19.3	21.4	22.4	23.4	24.9	26.9	28.4	29.4	32.0	34.5	37.5	42.0	45.5	49.5	53.5
2.96	11.5	13.1	14.2	15.2	17.8	19.8	20.8	21.9	23.4	25.4	26.9	27.9	30.5	33.0	36.0	40.5	44.1	48.1	52.1
2.97	---	9.2	10.4	11.5	14.2	16.3	17.4	18.4	20.0	22.0	23.6	24.6	27.1	29.7	32.7	37.3	40.8	44.8	48.8
3.07	13.3	14.9	15.9	16.9	19.5	21.5	22.5	23.5	25.0	27.1	28.6	29.6	32.1	34.6	37.6	42.2	45.7	49.7	53.7
3.09	---	9.3	10.5	11.6	14.3	16.4	17.5	18.5	20.1	22.2	23.7	24.7	27.3	29.8	32.9	37.4	40.9	45.0	49.0
3.10	10.1	11.7	12.8	13.9	16.5	18.6	19.6	20.6	22.2	24.2	25.7	26.8	29.3	31.8	34.8	39.4	42.9	46.9	50.9
3.11	11.6	13.2	14.3	15.3	17.9	20.0	21.0	22.0	23.5	25.6	27.1	28.1	30.6	33.1	36.2	40.7	44.2	48.2	52.2
3.13	---	---	---	---	---	---	---	12.7	14.5	16.7	18.3	19.4	22.0	24.6	27.7	32.3	35.9	40.0	44.0
3.21	---	---	---	10.9	13.7	15.8	16.9	18.0	19.5	21.6	23.1	24.2	26.7	29.3	32.3	36.9	40.4	44.5	48.5
3.25	13.4	15.0	16.0	17.1	19.6	21.6	22.7	23.7	25.2	27.2	28.7	29.7	32.3	34.8	37.8	42.3	45.8	49.8	53.8
3.25	10.2	11.9	13.0	14.0	16.6	18.7	19.7	20.8	22.3	24.4	25.9	26.9	29.4	32.0	35.0	39.5	43.0	47.1	51.1
3.29	---	---	---	---	10.5	12.8	14.0	15.1	16.7	18.9	20.4	21.5	24.1	26.7	29.7	34.3	37.9	41.9	46.0
3.36	---	9.6	10.7	11.8	14.6	16.7	17.8	18.8	20.4	22.4	24.0	25.0	27.5	30.1	33.1	37.7	41.2	45.3	49.3
3.41	10.3	12.0	13.1	14.1	16.8	18.9	19.9	20.9	22.4	24.5	26.0	27.0	29.6	32.1	35.1	39.7	43.2	47.2	51.2
3.42	---	---	---	---	10.6	13.0	14.1	15.2	16.8	19.0	20.6	21.6	24.2	26.8	29.9	34.5	38.0	42.1	46.1
3.46	11.9	13.5	14.6	15.6	18.2	20.2	21.3	22.3	23.8	25.8	27.4	28.4	30.9	33.4	36.5	41.0	44.5	48.5	52.5
3.49	---	---	10.0	11.2	13.9	16.1	17.2	18.2	19.8	21.9	23.4	24.4	27.0	29.6	32.6	37.2	40.7	44.7	48.8
3.51	---	9.7	10.8	12.0	14.7	16.8	17.9	18.9	20.5	22.6	24.1	25.1	27.7	30.2	33.3	37.8	41.4	45.4	49.4
3.55	---	---	---	---	10.7	13.1	14.2	15.3	17.0	19.1	20.7	21.8	24.4	26.9	30.0	34.6	38.2	42.2	46.3
3.58	---	---	---	---	---	---	12.0	13.2	14.9	17.2	18.8	19.9	22.5	25.2	28.3	32.9	36.5	40.5	44.6
3.59	10.5	12.1	13.2	14.3	16.9	19.0	20.0	21.0	22.6	24.6	26.2	27.2	29.7	32.2	35.3	39.8	43.3	47.4	51.4
3.65	---	---	10.1	11.3	14.1	16.2	17.3	18.3	19.9	22.0	23.5	24.6	27.1	29.7	32.8	37.3	40.9	44.9	48.9
3.66	12.0	13.6	14.7	15.7	18.3	20.4	21.4	22.4	24.0	26.0	27.5	28.5	31.0	33.6	36.6	41.1	44.6	48.7	52.7
0.83	0.86	0.87	0.88	0.91	0.92	0.94	0.96	0.97	0.99	1.00	1.01	1.03	1.04	1.06	1.09	1.11	1.13	1.15	

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A S-L CLASSIC

AX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.			3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance								
	Driver	Driven	RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		A26	A31	A33	A35	A38	A42	A46			
				A	AX		A	AX		A	AX										
3.69	4.6	18.0	948	8.73	9.60	474	5.65	6.05	314	4.10	4.45	---	---	---	---	---	---	---			
3.71	5.0	19.6	942	9.64	10.50	471	6.31	6.64	312	4.58	4.88	---	---	---	---	---	---	---			
3.79	3.2	13.2	923	4.99	6.13	461	3.22	3.89	306	2.36	2.89	---	---	---	---	---	---	9.5			
3.82	3.8	15.6	916	6.70	7.68	458	4.28	4.84	303	3.12	3.57	---	---	---	---	---	---	---			
3.86	3.6	15.0	906	6.15	7.17	453	3.93	4.53	300	2.87	3.34	---	---	---	---	---	---	---			
3.92	6.0	24.6	894	11.58	12.57	447	7.91	8.06	296	5.75	5.92	---	---	---	---	---	---	---			
4.01	4.2	18.0	872	7.75	8.66	436	4.98	5.45	289	3.61	4.01	---	---	---	---	---	---	9.6			
4.02	3.0	13.2	871	4.40	5.59	436	2.86	3.57	289	2.11	2.66	---	---	---	---	---	---	---			
4.07	3.4	15.0	860	5.58	6.66	430	3.58	4.21	285	2.62	3.12	---	---	---	---	---	---	---			
4.20	4.0	18.0	834	7.23	8.18	417	4.63	5.15	276	3.36	3.79	---	---	---	---	---	---	---			
4.23	3.4	15.6	828	5.58	6.66	414	3.58	4.21	274	2.62	3.12	---	---	---	---	---	---	---			
4.30	3.2	15.0	815	5.00	6.13	407	3.22	3.90	270	2.36	2.89	---	---	---	---	---	---	---			
4.36	4.2	19.6	802	7.75	8.66	401	4.98	5.46	266	3.61	4.01	---	---	---	---	---	---	---			
4.40	3.8	18.0	796	6.70	7.68	398	4.29	4.84	264	3.12	3.57	---	---	---	---	---	---	---			
4.46	3.2	15.6	784	5.00	6.13	392	3.22	3.90	260	2.36	2.89	---	---	---	---	---	---	---			
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---
4.48	5.2	24.6	782	10.07	10.94	391	6.64	6.93	259	4.82	5.09	---	---	---	---	---	---	0.76			
4.55	3.0	15.0	769	4.40	5.60	385	2.86	3.57	255	2.11	2.66	---	---	---	---	---	---	---			
4.56	4.0	19.6	767	7.23	8.18	384	4.63	5.15	254	3.37	3.79	---	---	---	---	---	---	---			
4.62	3.6	18.0	758	6.15	7.18	379	3.94	4.53	251	2.87	3.35	---	---	---	---	---	---	---			
4.64	5.0	24.6	754	9.65	10.51	377	6.32	6.64	250	4.58	4.88	---	---	---	---	---	---	---			
4.73	3.0	15.6	740	4.40	5.60	370	2.86	3.57	245	2.11	2.66	---	---	---	---	---	---	---			
4.78	3.8	19.6	732	6.70	7.68	366	4.29	4.84	243	3.12	3.57	---	---	---	---	---	---	---			
4.82	4.8	24.6	726	9.20	10.06	363	5.99	6.35	241	4.34	4.67	---	---	---	---	---	---	---			
4.86	3.4	18.0	720	5.58	6.66	360	3.58	4.22	239	2.62	3.12	---	---	---	---	---	---	---			
5.01	5.6	29.6	698	10.87	11.78	349	7.29	7.50	231	5.29	5.51	---	---	---	---	---	---	---			
5.02	3.6	19.6	697	6.15	7.18	349	3.94	4.53	231	2.87	3.35	---	---	---	---	---	---	---			
5.13	3.2	18.0	682	5.00	6.14	341	3.22	3.90	226	2.36	2.89	---	---	---	---	---	---	---			
5.29	3.4	19.6	662	5.58	6.66	331	3.58	4.22	219	2.62	3.12	---	---	---	---	---	---	---			
5.37	5.2	29.6	651	10.08	10.94	326	6.64	6.93	216	4.82	5.09	---	---	---	---	---	---	---			
5.44	3.0	18.0	644	4.40	5.60	322	2.86	3.57	213	2.11	2.66	---	---	---	---	---	---	---			
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---
5.45	4.2	24.6	642	7.76	8.67	321	4.98	5.46	213	3.61	4.02	---	---	---	---	---	---	---			
5.57	5.0	29.6	628	9.65	10.51	314	6.32	6.64	208	4.58	4.88	---	---	---	---	---	---	---			
5.58	3.2	19.6	627	5.00	6.14	314	3.22	3.90	208	2.36	2.89	---	---	---	---	---	---	---			
5.70	4.0	24.6	614	7.24	8.18	307	4.64	5.15	203	3.37	3.79	---	---	---	---	---	---	---			
5.79	4.8	29.6	605	9.20	10.06	302	5.99	6.35	200	4.34	4.67	---	---	---	---	---	---	---			
5.91	3.0	19.6	592	4.40	5.60	296	2.86	3.57	196	2.11	2.66	---	---	---	---	---	---	---			
5.98	3.8	24.6	586	6.70	7.69	293	4.29	4.84	194	3.12	3.57	---	---	---	---	---	---	---			
6.02	4.6	29.6	581	8.74	9.61	291	5.66	6.06	193	4.10	4.45	---	---	---	---	---	---	---			
6.28	3.6	24.6	558	6.15	7.18	279	3.94	4.53	185	2.87	3.35	---	---	---	---	---	---	---			
6.35	5.6	37.6	551	10.87	11.78	276	7.29	7.50	183	5.29	5.51	---	---	---	---	---	---	---			
6.55	4.2	29.6	535	7.76	8.67	267	4.98	5.46	177	3.61	4.02	---	---	---	---	---	---	---			
6.61	3.4	24.6	530	5.59	6.67	265	3.58	4.22	176	2.62	3.12	---	---	---	---	---	---	---			
6.81	5.2	37.6	514	10.08	10.94	257	6.65	6.94	170	4.82	5.09	---	---	---	---	---	---	---			
6.84	4.0	29.6	511	7.24	8.18	256	4.64	5.15	169	3.37	3.80	---	---	---	---	---	---	---			
6.98	3.2	24.6	502	5.00	6.14	251	3.23	3.90	166	2.37	2.89	---	---	---	---	---	---	---			
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---
7.06	5.0	37.6	496	9.65	10.51	248	6.32	6.65	164	4.58	4.88	---	---	---	---	---	---	---			
7.17	3.8	29.6	488	6.70	7.69	244	4.29	4.84	162	3.12	3.57	---	---	---	---	---	---	---			
7.33	4.8	37.6	477	9.21	10.07	239	5.99	6.35	158	4.34	4.67	---	---	---	---	---	---	---			
7.39	3.0	24.6	474	4.41	5.60	237	2.86	3.58	157	2.11	2.66	---	---	---	---	---	---	---			
7.53	3.6	29.6	465	6.15	7.18	232	3.94	4.53	154	2.87	3.35	---	---	---	---	---	---	---			
7.63	4.6	37.6	459	8.74	9.61	229	5.66	6.06	152	4.10	4.45	---	---	---	---	---	---	---			
7.93	3.4	29.6	441	5.59	6.67	221	3.58	4.22	146	2.62	3.12	---	---	---	---	---	---	---			
8.29	4.2	37.6	422	7.76	8.67	211	4.98	5.46	140	3.61	4.02	---	---	---	---	---	---	---			
8.37	3.2	29.6	418	5.00	6.14	209	3.23	3.90	139	2.37	2.89	---	---	---	---	---	---	---			
8.67	4.0	37.6	404	7.24	8.19	202	4.64	5.15	134	3.37	3.80	---	---	---	---	---	---	---			
8.87	3.0	29.6	395	4.41	5.60	197	2.87	3.58	131	2.11	2.66	---	---	---	---	---	---	---			
9.09	3.8	37.6	385	6.71	7.69	193	4.29	4.85	128	3.12	3.57	---	---	---	---	---	---	---			
9.54	3.6	37.6	367	6.16	7.18	183	3.94	4.53	122	2.87	3.35	---	---	---	---	---	---	---			
10.05	3.4	37.6	348	5.59	6.67	174	3.58	4.22	115	2.62	3.12	---	---	---	---	---	---	---			
10.61	3.2	37.6	330	5.01	6.14	165	3.23	3.90	109	2.37	2.89	---	---	---	---	---	---	---			
11.24	3.0	37.6	311	4.41	5.60	156	2.87	3.58	103	2.11	2.66	---	---	---	---	---	---	---			
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

A S-L CLASSIC AX CLASSIC COG STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	A48 AX48	A51 AX51	A53 AX53	A55 AX55	A60 AX60	A64 AX64	A66 AX66	A68 AX68	A75 AX75	A78 AX78	A80 AX80	A85 AX85	A90 AX90	A96 AX96	A105 AX105	A112 AX112	A120 AX120	A128 AX128	
3.69	---	---	---	---	10.8	13.2	14.3	15.5	17.1	19.2	20.8	21.9	24.5	27.1	30.2	34.8	38.3	42.4	46.4
3.71	---	---	---	---	---	---	---	---	12.1	13.3	15.1	17.3	18.9	20.0	22.7	25.3	28.4	33.0	36.6
3.79	10.6	12.3	13.3	14.4	17.0	19.1	20.2	21.2	22.7	24.8	26.3	27.3	29.9	32.4	35.4	40.0	43.5	47.5	51.5
3.82	---	---	10.2	11.4	14.2	16.4	17.4	18.5	20.1	22.1	23.7	24.7	27.3	29.8	32.9	37.5	41.0	45.0	49.1
3.86	---	9.9	11.1	12.2	15.0	17.1	18.2	19.2	20.8	22.8	24.4	25.4	28.0	30.5	33.6	38.1	41.7	45.7	49.7
3.92	---	---	---	---	---	---	---	---	---	---	13.4	16.5	19.4	22.7	27.6	31.2	35.4	39.5	43.5
4.01	---	---	---	---	11.1	13.5	14.6	15.7	17.4	19.5	21.1	22.1	24.8	27.4	30.4	35.0	38.6	42.7	46.7
4.02	10.7	12.4	13.5	14.5	17.2	19.3	20.3	21.3	22.9	24.9	26.4	27.5	30.0	32.5	35.6	40.1	43.6	47.7	51.7
4.07	---	10.0	11.2	12.3	15.1	17.2	18.3	19.3	20.9	23.0	24.5	25.5	28.1	30.7	33.7	38.3	41.8	45.8	49.9
4.20	---	---	---	---	11.2	13.6	14.7	15.8	17.5	19.6	21.2	22.3	24.9	27.5	30.6	35.2	38.7	42.8	46.9
4.23	---	9.2	10.5	11.6	14.4	16.6	17.7	18.7	20.3	22.4	24.0	25.0	27.6	30.1	33.2	37.7	41.3	45.3	49.4
4.30	8.3	10.1	11.3	12.5	15.2	17.4	18.4	19.5	21.0	23.1	24.7	25.7	28.2	30.8	33.8	38.4	41.9	46.0	50.0
4.36	---	---	---	---	---	11.4	12.6	13.8	15.6	17.8	19.4	20.5	23.2	25.8	28.9	33.6	37.2	41.2	45.3
4.40	---	---	---	---	11.3	13.7	14.8	16.0	17.6	19.8	21.4	22.4	25.0	27.6	30.7	35.3	38.9	43.0	47.0
4.46	---	9.3	10.6	11.8	14.6	16.7	17.8	18.9	20.5	22.5	24.1	25.1	27.7	30.3	33.3	37.9	41.4	45.5	49.5
	0.78	0.79	0.80	0.81	0.82	0.83	0.85	0.85	0.87	0.91	0.92	0.94	0.97	0.99	1.02	1.05	1.07	1.10	1.12
4.48	---	---	---	---	---	---	---	---	---	12.5	13.9	17.0	19.9	23.2	28.1	31.8	35.9	40.1	44.1
4.55	8.4	10.3	11.4	12.6	15.3	17.5	18.5	19.6	21.2	23.2	24.8	25.8	28.4	30.9	34.0	38.6	42.1	46.1	50.2
4.56	---	---	---	---	11.5	12.7	13.9	15.7	17.9	19.6	20.7	23.3	26.0	29.1	33.7	37.3	41.4	45.5	49.5
4.62	---	---	---	---	11.4	13.8	15.0	16.1	17.7	19.9	21.5	22.5	25.2	27.8	30.9	35.5	39.0	43.1	47.1
4.64	---	---	---	---	---	---	---	---	---	12.6	14.0	17.1	20.0	23.4	28.2	31.9	36.1	40.2	44.2
4.73	---	9.4	10.7	11.9	14.7	16.9	17.9	19.0	20.6	22.7	24.2	25.3	27.8	30.4	33.5	38.0	41.6	45.6	49.6
4.78	---	---	---	---	11.6	12.9	14.1	15.8	18.1	19.7	20.8	23.5	26.1	29.2	33.9	37.4	41.5	45.6	49.6
4.82	---	---	---	---	---	---	---	---	12.7	14.1	17.2	20.1	23.5	28.3	32.0	36.2	40.4	44.5	48.5
4.86	---	---	---	---	11.5	13.9	15.1	16.2	17.9	20.0	21.6	22.7	25.3	27.9	31.0	35.6	39.2	43.2	47.3
5.01	---	---	---	---	---	---	---	---	---	---	---	---	---	16.7	22.3	26.3	30.7	35.0	39.2
5.02	---	---	---	---	11.7	13.0	14.2	15.9	18.2	19.8	20.9	23.6	26.2	29.3	34.0	37.6	41.7	45.7	49.7
5.13	---	---	---	11.7	14.1	15.2	16.3	18.0	20.1	21.7	22.8	25.4	28.0	31.1	35.7	39.3	43.4	47.4	51.4
5.29	---	---	---	---	11.8	13.1	14.3	16.1	18.3	20.0	21.0	23.7	26.4	29.5	34.1	37.7	41.8	45.9	49.9
5.37	---	---	---	---	---	---	---	---	---	---	---	---	---	16.9	22.5	26.5	30.9	35.2	39.5
5.44	---	---	---	---	11.8	14.2	15.3	16.5	18.1	20.3	21.9	22.9	25.6	28.2	31.3	35.9	39.5	43.7	47.6
	0.78	0.79	0.80	0.81	0.82	0.83	0.85	0.85	0.87	0.91	0.92	0.94	0.97	0.99	1.02	1.05	1.07	1.10	1.12
5.45	---	---	---	---	---	---	---	---	---	13.1	14.4	17.6	20.5	23.9	28.7	32.4	36.6	40.8	44.8
5.57	---	---	---	---	11.9	13.2	14.4	16.2	18.4	---	---	---	---	17.1	22.6	26.7	31.1	35.3	39.3
5.58	---	---	---	---	---	---	---	---	---	20.1	21.2	23.8	26.5	29.6	34.3	37.9	42.0	46.0	50.0
5.70	---	---	---	---	---	---	---	---	---	13.2	14.6	17.7	20.6	24.0	28.9	32.6	36.8	40.9	44.9
5.79	---	---	---	---	---	---	---	---	---	---	---	---	---	17.2	22.8	26.8	31.2	35.5	39.5
5.91	---	---	---	---	12.1	13.3	14.5	16.3	18.6	20.2	21.3	24.0	26.6	29.8	34.4	38.0	42.1	46.2	50.2
5.98	---	---	---	---	---	---	---	---	---	13.3	14.7	17.8	20.7	24.1	29.0	32.7	36.9	41.0	45.0
6.02	---	---	---	---	---	---	---	---	---	---	---	---	---	17.3	22.9	26.9	31.3	35.6	39.6
6.28	---	---	---	---	---	---	---	---	---	13.4	14.8	17.9	20.9	24.2	29.1	32.8	37.0	41.2	45.2
6.35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20.5	25.8	30.1	34.1
6.55	---	---	---	---	---	---	---	---	---	---	---	---	---	17.5	23.1	27.1	31.6	35.9	39.9
6.61	---	---	---	---	---	---	---	---	---	13.5	14.9	18.1	21.0	24.4	29.2	33.0	37.2	41.3	45.3
6.81	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20.7	26.0	30.3	34.3
6.84	---	---	---	---	---	---	---	---	---	---	---	---	---	17.6	23.3	27.3	31.7	36.0	40.0
6.98	---	---	---	---	---	---	---	---	---	13.6	15.0	18.2	21.1	24.5	29.4	33.1	37.3	41.4	45.4
	---	---	---	---	0.76	0.76	0.78	0.83	0.87	0.89	0.91	0.94	0.97	1.00	1.04	1.06	1.09	1.11	1.13
7.06	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20.8	26.1	31.4
7.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.3	26.6
7.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.8	27.1
7.39	---	---	---	---	---	---	---	---	11.3	13.7	15.1	18.3	21.2	24.6	29.5	33.2	37.4	41.6	45.6
7.53	---	---	---	---	---	---	---	---	---	---	---	---	---	17.9	23.5	27.5	31.9	36.3	40.3
7.63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.1	26.4
7.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.3	26.6
8.29	---	---	---	---	---	---	---	---	---	---	---	---	---	18.0	23.6	27.6	32.1	36.4	40.4
8.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.3	26.6
8.67	---	---	---	---	---	---	---	---	---	---	---	---	---	18.1	23.7	27.8	32.2	36.5	40.5
8.87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.4	26.7
9.09	---	---	---	---	---	---	---	---	---	---	---	---	---	18.2	23.9	27.9	32.3	36.6	40.6
9.54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.5	26.8
10.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.6	26.9
10.61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.7	27.1
11.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.9	27.2
	---	---	---	---	---	---	---	---	---	0.75	0.77	0.80	0.82	0.88	0.93	0.99	1.02	1.05	1.08

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance															
	Driver	Driven	Driven RPM	HP Per Belt B	HP Per Belt BX	Driven RPM	HP Per Belt B	HP Per Belt BX	Driven RPM	HP Per Belt B	HP Per Belt BX	B35 BX35	B38 BX38	B42 BX42	B46 BX46	B51 BX51	B55 BX55	B60 BX60	B64 BX64								
1.00	3.40	3.40	3500	1.41	7.30	1750	1.95	4.99	1160	1.67	3.74	13.1	14.6	16.6	18.6	21.1	23.1	25.6	27.6								
1.00	3.80	3.80	3500	3.20	8.67	1750	3.07	5.90	1160	2.47	4.40	12.4	13.9	15.9	17.9	20.4	22.4	24.9	26.9								
1.00	4.20	4.20	3500	4.88	9.94	1750	4.18	6.78	1160	3.26	5.05	11.8	13.3	15.3	17.3	19.8	21.8	24.3	26.3								
1.00	4.60	4.60	3500	6.45	11.11	1750	5.26	7.65	1160	4.03	5.68	11.2	12.7	14.7	16.7	19.2	21.2	23.7	25.7								
1.00	5.00	5.00	3500	7.90	12.17	1750	6.32	8.49	1160	4.80	6.31	10.6	12.1	14.1	16.1	18.6	20.6	23.1	25.1								
1.00	5.20	5.20	3500	8.58	12.66	1750	6.84	8.90	1160	5.18	6.62	10.2	11.7	13.7	15.7	18.2	20.2	22.7	24.7								
1.00	5.40	5.40	3500	9.23	13.12	1750	7.36	9.31	1160	5.66	6.92	9.9	11.4	13.4	15.4	17.9	19.9	22.4	24.4								
1.00	5.60	5.60	3500	9.85	13.55	1750	7.87	9.71	1160	5.94	7.22	9.6	11.1	13.1	15.1	17.6	19.6	22.1	24.1								
1.00	6.00	6.00	3500	10.97	14.33	1750	8.87	10.49	1160	6.68	7.82	9.0	10.5	12.5	14.5	17.0	19.0	21.5	23.5								
1.00	6.40	6.40	3500	11.96	14.99	1750	9.85	11.26	1160	7.41	8.41	8.4	9.9	11.9	13.9	16.4	18.4	20.9	22.9								
1.00	6.80	6.80	3500	12.80	15.51	1750	10.81	11.99	1160	8.14	8.99	7.7	9.2	11.2	13.2	15.7	17.7	20.2	22.2								
1.00	7.40	7.40	3500	---	---	1750	12.19	13.06	1160	9.20	9.84	---	8.3	10.3	12.3	14.8	16.8	19.3	21.3								
1.00	8.60	8.60	3500	---	---	1750	14.79	15.03	1160	11.27	11.47	---	---	---	10.4	12.9	14.9	17.4	19.4								
1.00	9.40	9.40	3500	---	---	1750	16.38	16.22	1160	12.59	12.50	---	---	---	11.6	13.6	16.1	18.1	20.1								
1.03	6.80	7.00	3405	13.01	15.72	1702	10.91	12.10	1128	8.20	9.06	7.6	9.1	11.1	13.1	15.6	17.6	20.1	22.1								
1.03	6.00	6.20	3393	11.21	14.57	1697	8.99	10.61	1125	6.76	7.90	8.8	10.3	12.3	14.3	16.8	18.8	21.3	23.3								
1.03	5.40	5.60	3383	9.49	13.38	1691	7.49	9.43	1121	5.65	7.01	9.8	11.3	13.3	15.3	17.8	19.8	22.3	24.3								
1.04	5.20	5.40	3378	8.85	12.92	1689	6.98	9.03	1120	5.27	6.70	10.1	11.6	13.6	15.6	18.1	20.1	22.6	24.6								
1.04	4.60	4.80	3364	6.75	11.40	1682	5.41	7.79	1115	4.13	5.78	11.0	12.5	14.5	16.5	19.0	21.0	23.5	25.5								
1.04	4.20	4.40	3353	5.20	10.25	1676	4.34	6.94	1111	3.36	5.15	11.6	13.1	15.1	17.1	19.6	21.6	24.1	26.1								
1.05	4.00	4.20	3346	4.38	9.64	1673	3.79	6.51	1109	2.97	4.83	12.0	13.5	15.5	17.5	20.0	22.0	24.5	26.5								
1.05	3.60	3.80	3332	2.68	8.36	1666	2.69	5.62	1104	2.19	4.19	12.6	14.1	16.1	18.1	20.6	22.6	25.1	27.1								
1.05	3.40	3.60	3323	1.79	7.68	1662	2.13	5.18	1101	1.79	3.87	12.9	14.4	16.4	18.4	20.9	22.9	25.4	27.4								
1.06	6.40	6.80	3304	12.37	15.40	1652	10.06	11.46	1095	7.55	8.55	8.0	9.5	11.5	13.5	16.0	18.0	20.5	22.5								
1.06	6.00	6.40	3293	11.41	14.77	1646	9.09	10.71	1091	6.82	7.97	8.7	10.2	12.2	14.2	16.7	18.7	21.2	23.2								
1.07	5.60	6.00	3280	10.30	14.01	1640	8.10	9.94	1087	6.09	7.38	9.3	10.8	12.8	14.8	17.3	19.3	21.8	23.8								
1.07	5.00	5.40	3257	8.40	12.67	1628	6.57	8.74	1079	4.97	6.47	10.2	11.7	13.7	15.7	18.2	20.2	22.7	24.7								
1.08	7.40	8.00	3249	---	---	1624	12.45	13.32	1077	9.37	10.01	---	7.8	9.8	11.8	14.3	16.3	18.8	20.8								
1.08	4.60	5.00	3239	6.99	11.64	1619	5.53	7.91	1073	4.21	5.86	10.9	12.4	14.4	16.4	18.9	20.9	23.4	25.4								
1.09	8.60	9.40	3213	---	---	1607	15.08	15.32	1065	11.46	11.66	---	---	---	9.8	12.3	14.3	16.8	18.8								
1.09	4.00	4.40	3206	4.65	9.91	1603	3.92	6.64	1063	3.06	4.92	11.8	13.3	15.3	17.3	19.8	21.8	24.3	26.3								
1.09	6.00	6.60	3198	11.58	14.94	1599	9.17	10.79	1060	6.88	8.02	8.5	10.0	12.0	14.0	16.5	18.5	21.0	23.0								
1.10	5.60	6.20	3180	10.48	14.19	1590	8.19	10.03	1054	6.15	7.43	9.1	10.6	12.6	14.6	17.1	19.1	21.6	23.6								
1.10	3.60	4.00	3179	2.96	8.63	1589	2.83	5.76	1054	2.28	4.28	12.4	13.9	15.9	17.9	20.4	22.4	24.9	26.9								
1.11	3.40	3.80	3163	2.07	7.96	1582	2.28	5.32	1048	1.89	3.96	12.7	14.2	16.2	18.2	20.7	22.7	25.2	27.2								
ARC-LENGTH CORRECTION FACTOR -->												0.76	0.78	0.81	0.83	0.86	0.88	0.90	0.92								
1.11	5.20	5.80	3159	9.25	13.33	1580	7.18	9.24	1047	5.41	6.84	9.8	11.3	13.3	15.3	17.8	19.8	22.3	24.3								
1.12	4.60	5.20	3122	7.18	11.84	1561	5.63	8.01	1035	4.28	5.93	10.7	12.2	14.2	16.2	18.7	20.7	23.2	25.2								
1.13	6.00	6.80	3109	11.72	15.08	1554	9.25	10.87	1030	6.93	8.07	8.3	9.8	11.8	13.8	16.3	18.3	20.8	22.8								
1.13	4.20	4.80	3093	5.66	10.71	1547	4.57	7.17	1025	3.51	5.30	11.3	12.8	14.8	16.8	19.3	21.3	23.8	25.8								
1.13	5.60	6.40	3086	10.63	14.34	1543	8.26	10.10	1023	6.20	7.48	9.0	10.5	12.5	14.5	17.0	19.0	21.5	23.5								
1.14	5.40	6.20	3073	10.04	13.93	1537	7.76	9.71	1019	5.83	7.19	9.3	10.8	12.8	14.8	17.3	19.3	21.8	23.8								
1.14	3.80	4.40	3059	4.03	9.49	1529	3.49	6.31	1014	2.74	4.67	12.0	13.5	15.5	17.5	20.0	22.0	24.5	26.5								
1.15	5.00	5.80	3045	8.75	13.01	1523	6.74	8.91	1009	5.08	6.59	9.9	11.4	13.4	15.4	17.9	19.9	22.4	24.4								
1.15	3.60	4.20	3039	3.17	8.85	1520	2.94	5.87	1007	2.35	4.36	12.3	13.8	15.8	17.8	20.3	22.3	24.8	26.8								
1.15	7.40	8.60	3031	---	---	1516	12.63	13.49	1005	9.49	10.12	---	---	---	9.3	11.3	13.8	15.8	18.3	20.3							
1.16	6.00	7.00	3024	11.85	15.21	1512	9.31	10.93	1002	6.97	8.11	8.2	9.7	11.7	13.7	16.2	18.2	20.7	22.7								
1.16	3.40	4.00	3018	2.30	8.19	1509	2.39	5.43	1000	1.96	4.03	12.6	14.1	16.1	18.1	20.6	22.6	25.1	27.1								
1.16	9.40	11.00	3007	---	---	1504	16.83	16.67	997	12.89	12.80	---	---	---	---	10.4	12.4	14.9	16.9								
1.17	6.80	8.00	2998	13.71	16.43	1499	11.26	12.45	993	8.44	9.29	---	8.3	10.3	12.3	14.8	16.8	19.3	21.3								
1.17	5.40	6.40	2982	10.17	14.06	1491	7.83	9.77	988	5.87	7.23	9.1	10.6	12.6	14.6	17.1	19.1	21.6	23.6								
1.18	5.20	6.20	2966	9.54	13.61	1483	7.32	9.38	983	5.50	6.93	9.4	10.9	12.9	14.9	17.4	19.4	21.9	23.9								
1.18	4.00	4.80	2957	5.02	10.28	1479	4.11	6.83	980	3.18	5.05	11.5	13.0	15.0	17.0	19.5	21.5	24.0	26.0								
1.19	5.00	6.00	2950	8.88	13.15	1475	6.81	8.98	978	5.13	6.63	9.8	11.3	13.3	15.3	17.8	19.8	22.3	24.3								
1.19	3.80	4.60	2935	4.19	9.66	1468	3.57	6.39	973	2.80	4.73	11.8	13.3	15.3	17.3	19.8	21.8	24.3	26.3								
1.20	5.60	6.80	2913	10.87	14.58	1457	8.38	10.22	966	6.27	7.56	8.6	10.1	12.2	14.2	16.7	18.7	21.2	23.2								
1.20	4.60	5.60	2913	7.48	12.13	1456	5.77	8.16	965	4.37	6.02	10.4	11.9	13.9	15.9	18.4	20.4	22.9	24.9								
1.20	3.60	4.40	2912	3.34	9.02	1456	3.02	5.96	965	2.41	4.41	12.1	13.6	15.6	17.6	20.1	22.1	24.6	26.6								
1.21	5.40	6.60	2897	10.27	14.16	1448	7.88	9.83	960	5.91	7.27	9.0	10.5	12.5	14.5	17.0	19.0	21.5	23.5								
1.21	3.40	4.20	2886	2.47	8.36	1443	2.47	5.52	956	2.02	4.09	12.4	13.9	15.9	17.9	20.4	22.4	24.9	26.9								
1.22	4.20	5.20	2871	5.96	11.01	1435	4.72	7.32	951	3.61	5.40	11.0	12.5	14.5	16.5	19.0	21.0	23.5	25.5								
ARC-LENGTH CORRECTION FACTOR -->												0.75	0.77	0.80	0.82	0.85	0.87	0.89	0.90								

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	B68 BX68	B75 BX75	B81 BX81	B85 BX85	B90 BX90	B97 BX97	B105 BX105	B112 BX112	B120 BX120	B128 BX128	B144 BX144	B158 BX158	B173 BX173	B180 BX180	B195 BX195	B210 BX210	B240 BX240	B270 BX270
1.00	29.6	33.1	36.1	38.1	40.6	44.1	48.1	51.6	55.6	59.6	67.6	74.6	82.1	85.6	93.1	100.6	114.8	129.8
1.00	28.9	32.4	35.4	37.4	39.9	43.4	47.4	50.9	54.9	58.9	66.9	73.9	81.4	84.9	92.4	99.9	114.2	129.2
1.00	28.3	31.8	34.8	36.8	39.3	42.8	46.8	50.3	54.3	58.3	66.3	73.3	80.8	84.3	91.8	99.3	113.6	128.6
1.00	27.7	31.2	34.2	36.2	38.7	42.2	46.2	49.7	53.7	57.7	65.7	72.7	80.2	83.7	91.2	98.7	112.9	127.9
1.00	27.1	30.6	33.5	35.5	38.0	41.5	45.5	49.0	53.0	57.0	65.0	72.0	79.5	83.0	90.5	98.0	112.3	127.3
1.00	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.00	26.4	29.9	32.9	34.9	37.4	40.9	44.9	48.4	52.4	56.4	64.4	71.4	78.9	82.4	89.9	97.4	111.7	126.7
1.00	26.1	29.6	32.6	34.6	37.1	40.6	44.6	48.1	52.1	56.1	64.1	71.1	78.6	82.1	89.6	97.1	111.4	126.4
1.00	25.5	29.0	32.0	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.00	24.9	28.4	31.4	33.4	35.9	39.4	43.4	46.9	50.9	54.9	62.9	69.9	77.4	80.9	88.4	95.9	110.1	125.1
1.00	24.2	27.7	30.7	32.7	35.2	38.7	42.7	46.2	50.2	54.2	62.2	69.2	76.7	80.2	87.7	95.2	109.5	124.5
1.00	23.3	26.8	29.8	31.8	34.3	37.8	41.8	45.3	49.3	53.3	61.3	68.3	75.8	79.3	86.8	94.3	108.5	123.5
1.00	21.4	24.9	27.9	29.9	32.4	35.9	39.9	43.4	47.4	51.4	59.4	66.4	73.9	77.4	84.9	92.4	106.6	121.6
1.00	20.1	23.6	26.6	28.6	31.1	34.6	38.6	42.1	46.1	50.1	58.1	65.1	72.6	76.1	83.6	91.1	105.4	120.4
1.03	24.1	27.6	30.6	32.6	35.1	38.6	42.6	46.1	50.1	54.1	62.1	69.1	76.6	80.1	87.6	95.1	109.3	124.3
1.03	25.3	28.8	31.8	33.8	36.3	39.8	43.8	47.3	51.3	55.3	63.3	70.3	77.8	81.3	88.8	96.3	110.6	125.6
1.03	26.3	29.8	32.8	34.8	37.3	40.8	44.8	48.3	52.3	56.3	64.3	71.3	78.8	82.3	89.8	97.3	111.5	126.5
1.04	26.6	30.1	33.1	35.1	37.6	41.1	45.1	48.6	52.6	56.6	64.6	71.6	79.1	82.6	90.1	97.6	111.8	126.8
1.04	27.5	31.0	34.0	36.0	38.5	42.0	46.0	49.5	53.5	57.5	65.5	72.5	80.0	83.5	91.0	98.5	112.8	127.8
1.04	28.1	31.6	34.6	36.6	39.1	42.6	46.6	50.1	54.1	58.1	66.1	73.1	80.6	84.1	91.6	99.1	113.4	128.4
1.05	28.5	32.0	35.0	37.0	39.5	43.0	47.0	50.5	54.5	58.5	66.5	73.5	81.0	84.5	92.0	99.5	113.7	128.7
1.05	29.1	32.6	35.6	37.6	40.1	43.6	47.6	51.1	55.1	59.1	67.1	74.1	81.6	85.1	92.6	100.1	114.3	129.3
1.05	29.4	32.9	35.9	37.9	40.4	43.9	47.9	51.4	55.4	59.4	67.4	74.4	81.9	85.4	92.9	100.4	114.7	129.7
1.06	24.5	28.0	31.0	33.0	35.5	39.0	43.0	46.5	50.5	54.5	62.5	69.5	77.0	80.5	88.0	95.5	109.8	124.8
1.06	25.2	28.7	31.7	33.7	36.2	39.7	43.7	47.2	51.2	55.2	63.2	70.2	77.7	81.2	88.7	96.2	110.4	125.4
1.07	25.8	29.3	32.3	34.3	36.8	40.3	44.3	47.8	51.8	55.8	63.8	70.8	78.3	81.8	89.3	96.8	111.0	126.0
1.07	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.08	22.8	26.3	29.3	31.3	33.8	37.3	41.3	44.8	48.8	52.8	60.8	67.8	75.3	78.8	86.3	93.8	108.1	123.1
1.08	27.4	30.9	33.9	35.9	38.4	41.9	45.9	49.4	53.4	57.4	65.4	72.4	79.9	83.4	90.9	98.4	112.6	127.6
1.09	20.8	24.3	27.3	29.3	31.8	35.3	39.3	42.8	46.8	50.8	58.8	65.8	73.3	76.8	84.3	91.8	106.0	121.0
1.09	28.3	31.8	34.8	36.8	39.3	42.8	46.8	50.3	54.3	58.3	66.3	73.3	80.8	84.3	91.8	99.3	113.6	128.6
1.09	25.0	28.5	31.5	33.5	36.0	39.5	43.5	47.0	51.0	55.0	63.0	70.0	77.5	81.0	88.5	96.0	110.3	125.3
1.10	25.6	29.1	32.1	34.1	36.6	40.1	44.1	47.6	51.6	55.6	63.6	70.6	78.1	81.6	89.1	96.6	110.9	125.9
1.10	28.9	32.4	35.4	37.4	39.9	43.4	47.4	50.9	54.9	58.9	66.9	73.9	81.4	84.9	92.4	99.9	114.2	129.2
1.11	29.2	32.7	35.7	37.7	40.2	43.7	47.7	51.2	55.2	59.2	67.2	74.2	81.7	85.2	92.7	100.2	114.5	129.5
	0.93	0.95	0.97	0.98	1.00	1.02	1.04	1.05	1.07	1.09	1.12	1.14	1.16	1.17	1.19	1.21	1.24	1.27
1.11	26.3	29.8	32.8	34.8	37.3	40.8	44.8	48.3	52.3	56.3	64.3	71.3	78.8	82.3	89.8	97.3	111.5	126.5
1.12	27.2	30.7	33.7	35.7	38.2	41.7	45.7	49.2	53.2	57.2	65.2	72.2	79.7	83.2	90.7	98.2	112.5	127.5
1.13	24.8	28.3	31.3	33.3	35.8	39.3	43.3	46.8	50.8	54.8	62.8	69.8	77.3	80.8	88.3	95.8	110.1	125.1
1.13	27.8	31.3	34.3	36.3	38.8	42.3	46.3	49.8	53.8	57.8	65.8	72.8	80.3	83.8	91.3	98.8	113.1	128.1
1.13	25.5	29.0	32.0	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.14	25.8	29.3	32.3	34.3	36.8	40.3	44.3	47.8	51.8	55.8	63.8	70.8	78.3	81.8	89.3	96.8	111.0	126.0
1.14	28.5	32.0	35.0	37.0	39.5	43.0	47.0	50.5	54.5	58.5	66.5	73.5	81.0	84.5	92.0	99.5	113.7	128.7
1.15	26.4	29.9	32.9	34.9	37.4	40.9	44.9	48.4	52.4	56.4	64.4	71.4	78.9	82.4	89.9	97.4	111.7	126.7
1.15	28.8	32.3	35.3	37.3	39.8	43.3	47.3	50.8	54.8	58.8	66.8	73.8	81.3	84.8	92.3	99.8	114.0	129.0
1.15	22.3	25.8	28.8	30.8	33.3	36.8	40.8	44.3	48.3	52.3	60.3	67.3	74.8	78.3	85.8	93.3	107.6	122.6
1.16	24.7	28.2	31.2	33.2	35.7	39.2	43.2	46.7	50.7	54.7	62.7	69.7	77.2	80.7	88.2	95.7	109.9	124.9
1.16	29.1	32.6	35.6	37.6	40.1	43.6	47.6	51.1	55.1	59.1	67.1	74.1	81.6	85.1	92.6	100.1	114.3	129.3
1.16	18.9	22.4	25.4	27.4	29.9	33.4	37.4	40.9	44.9	48.9	56.9	63.9	71.4	74.9	82.4	89.9	104.1	119.1
1.17	23.3	26.8	29.8	31.8	34.3	37.8	41.8	45.3	49.3	53.3	61.3	68.3	75.8	79.3	86.8	94.3	108.5	123.5
1.17	25.6	29.1	32.1	34.1	36.6	40.1	44.1	47.6	51.6	55.6	63.6	70.6	78.1	81.6	89.1	96.6	110.9	125.9
1.18	25.9	29.4	32.4	34.4	36.9	40.4	44.4	47.9	51.9	55.9	63.9	70.9	78.4	81.9	89.4	96.9	111.2	126.2
1.18	28.0	31.5	34.5	36.5	39.0	42.5	46.5	50.0	54.0	58.0	66.0	73.0	80.5	84.0	91.5	99.0	113.2	128.2
1.19	26.3	29.8	32.8	34.8	37.3	40.8	44.8	48.3	52.3	56.3	64.3	71.3	78.8	82.3	89.8	97.3	111.5	126.5
1.19	28.3	31.8	34.8	36.8	39.3	42.8	46.8	50.3	54.3	58.3	66.3	73.3	80.8	84.3	91.8	99.3	113.6	128.6
1.20	25.2	28.7	31.7	33.7	36.2	39.7	43.7	47.2	51.2	55.2	63.2	70.2	77.7	81.2	88.7	96.2	110.4	125.4
1.20	26.9	30.4	33.4	35.4	37.9	41.4	45.4	48.9	52.9	56.9	64.9	71.9	79.4	82.9	90.4	97.9	112.1	127.1
1.20	28.6	32.1	35.1	37.1	39.6	43.1	47.1	50.6	54.6	58.6	66.6	73.6	81.1	84.6	92.1	99.6	113.9	128.9
1.21	25.5	29.0	32.0	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.21	28.9	32.4	35.4	37.4	39.9	43.4	47.4	50.9	54.9	58.9	66.9	73.9	81.4	84.9	92.4	99.9	114.2	129.2
1.22	27.5	31.0	34.0	36.0	38.5	42.0	46.0	49.5	53.5	57.5	65.5	72.5	80.0	83.5	91.0	98.5	112.8	127.8
	0.92	0.95	0.97	0.98	0.99	1.01	1.03	1.05	1.07	1.08	1.11	1.14	1.16	1.17	1.19	1.21	1.24	1.27

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance															
	Datum	Diam.	Driven	HP Per Belt		Driven	HP Per Belt		Driven	HP Per Belt		B35	B38	B42	B46	B51	B55	B60	B64								
	Driver	Driven		B	BX		B	BX		B	BX	BX35	BX38	BX42	BX46	BX51	BX55	BX60	BX64								
1.22	6.00	7.40	2869	12.05	15.41	1434	9.41	11.03	951	7.04	8.18	7.8	9.4	11.4	13.4	15.9	17.9	20.4	22.4								
1.22	5.00	6.20	2860	8.99	13.26	1430	6.86	9.03	948	5.16	6.67	9.6	11.1	13.1	15.1	17.6	19.6	22.1	24.1								
1.23	4.00	5.00	2847	5.16	10.42	1424	4.18	6.89	944	3.23	5.09	11.3	12.8	14.8	16.8	19.3	21.3	23.8	25.8								
1.23	5.60	7.00	2834	10.96	14.67	1417	8.43	10.27	939	6.31	7.59	8.5	10.0	12.0	14.0	16.5	18.5	21.0	23.0								
1.24	6.40	8.00	2830	13.08	16.11	1415	10.41	11.81	938	7.78	8.78	---	8.6	10.6	12.6	15.1	17.1	19.6	21.6								
1.24	3.80	4.80	2822	4.33	9.80	1411	3.64	6.46	935	2.84	4.77	11.6	13.1	15.1	17.1	19.6	21.6	24.1	26.1								
1.24	4.60	5.80	2818	7.59	12.24	1409	5.83	8.21	934	4.41	6.06	10.2	11.7	13.7	15.7	18.2	20.2	22.7	24.7								
1.24	5.40	6.80	2816	10.37	14.26	1408	7.93	9.87	933	5.94	7.30	8.8	10.3	12.3	14.3	16.8	18.8	21.3	23.3								
1.25	6.80	8.60	2797	13.95	16.67	1398	11.38	12.57	927	8.52	9.37	---	7.8	9.8	11.8	14.3	16.3	18.8	20.8								
1.25	5.20	6.60	2796	9.74	13.82	1398	7.42	9.48	927	5.57	7.00	9.1	10.6	12.6	14.6	17.1	19.1	21.6	23.6								
1.25	3.60	4.60	2794	3.48	9.16	1397	3.09	6.02	926	2.45	4.46	12.0	13.5	15.5	17.5	20.0	22.0	24.5	26.5								
1.26	7.40	9.40	2783	---	---	1391	12.78	13.65	922	9.59	10.22	---	---	8.7	10.7	13.2	15.2	17.7	19.7								
1.26	5.00	6.40	2775	9.08	13.35	1388	6.91	9.08	920	5.19	6.70	9.4	10.9	12.9	14.9	17.4	19.4	21.9	23.9								
1.26	4.20	5.40	2771	6.07	11.12	1385	4.77	7.38	918	3.65	5.44	10.8	12.3	14.4	16.4	18.9	20.9	23.4	25.4								
1.27	8.60	11.00	2761	---	---	1380	15.39	15.63	915	11.66	11.86	---	---	---	---	10.9	13.0	15.5	17.5								
1.28	4.60	6.00	2730	7.68	12.33	1365	5.87	8.26	905	4.44	6.09	10.1	11.6	13.6	15.6	18.1	20.1	22.6	24.6								
1.29	5.20	6.80	2718	9.82	13.89	1359	7.46	9.52	901	5.59	7.03	8.9	10.4	12.5	14.5	17.0	19.0	21.5	23.5								
1.29	3.80	5.00	2716	4.44	9.91	1358	3.69	6.52	900	2.88	4.81	11.5	13.0	15.0	17.0	19.5	21.5	24.0	26.0								
1.30	5.60	7.40	2688	11.11	14.82	1344	8.50	10.34	891	6.35	7.64	8.1	9.7	11.7	13.7	16.2	18.2	20.7	22.7								
1.31	4.20	5.60	2678	6.15	11.21	1339	4.81	7.42	888	3.68	5.47	10.7	12.2	14.2	16.2	18.7	20.7	23.2	25.2								
1.31	9.40	12.40	2677	---	---	1339	17.02	16.86	887	13.01	12.93	---	---	---	---	---	11.2	13.7	15.7								
1.31	6.00	8.00	2663	12.26	15.62	1331	9.52	11.14	882	7.11	8.25	7.3	8.9	10.9	12.9	15.4	17.4	19.9	21.9								
1.32	3.40	4.60	2653	2.71	8.60	1327	2.59	5.64	879	2.10	4.17	12.1	13.6	15.6	17.6	20.1	22.1	24.6	26.6								
1.32	4.60	6.20	2646	7.75	12.41	1323	5.91	8.30	877	4.47	6.11	9.9	11.4	13.4	15.4	17.9	19.9	22.4	24.4								
1.33	6.40	8.60	2641	13.27	16.29	1320	10.50	11.91	875	7.84	8.84	---	8.0	10.1	12.1	14.6	16.6	19.1	21.1								
1.34	5.00	6.80	2620	9.23	13.49	1310	6.98	9.15	868	5.24	6.75	9.1	10.6	12.6	14.6	17.1	19.1	21.6	23.6								
1.35	5.40	7.40	2598	10.57	14.46	1299	8.03	9.98	861	6.01	7.37	8.3	9.8	11.8	13.8	16.3	18.3	20.8	22.8								
1.35	4.20	5.80	2591	6.23	11.28	1295	4.85	7.46	859	3.70	5.49	10.5	12.0	14.0	16.0	18.5	20.5	23.0	25.0								
1.36	4.60	6.40	2568	7.82	12.47	1284	5.94	8.33	851	4.49	6.14	9.7	11.2	13.2	15.2	17.7	19.7	22.2	24.2								
1.36	6.80	9.40	2568	14.16	16.88	1284	11.49	12.68	851	8.59	9.44	---	---	9.1	11.1	13.6	15.6	18.1	20.1								
1.37	3.40	4.80	2550	2.79	8.68	1275	2.63	5.68	845	2.12	4.20	11.9	13.4	15.4	17.4	20.0	22.0	24.5	26.5								
1.37	5.00	7.00	2549	9.28	13.55	1274	7.01	9.18	845	5.26	6.76	8.9	10.4	12.4	14.4	17.0	19.0	21.5	23.5								
1.39	4.20	6.00	2509	6.29	11.35	1255	4.88	7.49	832	3.72	5.51	10.4	11.9	13.9	15.9	18.4	20.4	22.9	24.9								
1.40	5.60	8.00	2495	11.26	14.97	1248	8.58	10.42	827	6.41	7.69	7.6	9.1	11.2	13.2	15.7	17.7	20.2	22.2								
1.40	4.60	6.60	2494	7.87	12.52	1247	5.97	8.36	827	4.51	6.15	9.6	11.1	13.1	15.1	17.6	19.6	22.1	24.1								
ARC-LENGTH CORRECTION FACTOR →												0.75	0.77	0.80	0.82	0.85	0.87	0.89	0.90								
1.40	3.60	5.20	2493	3.74	9.42	1246	3.22	6.16	826	2.54	4.54	11.5	13.0	15.0	17.0	19.5	21.5	24.0	26.0								
1.41	6.00	8.60	2484	12.40	15.76	1242	9.59	11.21	823	7.15	8.29	---	8.3	10.4	12.4	14.9	16.9	19.4	21.4								
1.42	8.60	12.40	2458	---	---	1229	15.51	15.75	815	11.75	11.94	---	---	---	---	---	11.8	14.3	16.3								
1.43	3.40	5.00	2455	2.86	8.75	1228	2.67	5.71	814	2.15	4.22	11.8	13.3	15.3	17.3	19.8	21.8	24.3	26.3								
1.43	9.40	13.60	2447	---	---	1223	17.11	16.95	811	13.07	12.98	---	---	---	---	---	---	12.7	14.7								
1.44	6.40	9.40	2424	13.43	16.45	1212	10.58	11.99	803	7.90	8.90	---	---	9.4	11.4	13.9	15.9	18.4	20.4								
1.45	5.40	8.00	2411	10.70	14.59	1206	8.10	10.04	799	6.05	7.41	7.8	9.3	11.3	13.3	15.8	17.8	20.3	22.3								
1.46	4.00	6.00	2399	5.54	10.80	1200	4.37	7.08	795	3.35	5.22	10.5	12.0	14.0	16.0	18.5	20.5	23.0	25.0								
1.46	7.40	11.00	2391	---	---	1195	12.94	13.80	792	9.69	10.33	---	---	---	9.3	11.8	13.8	16.4	18.4								
1.48	3.40	5.20	2367	2.91	8.80	1183	2.70	5.74	784	2.16	4.24	11.6	13.1	15.1	17.1	19.6	21.6	24.1	26.1								
1.48	4.20	6.40	2361	6.39	11.44	1180	4.93	7.54	782	3.75	5.55	10.0	11.5	13.5	15.5	18.0	20.0	22.6	24.6								
1.50	5.60	8.60	2328	11.37	15.08	1164	8.63	10.47	772	6.44	7.73	---	8.6	10.6	12.7	15.7	17.7	19.7	21.7								
1.51	3.60	5.60	2326	3.84	9.52	1163	3.27	6.21	771	2.57	4.58	11.1	12.6	14.6	16.6	19.2	21.2	23.7	25.7								
1.53	4.20	6.60	2293	6.42	11.48	1147	4.95	7.55	760	3.77	5.56	9.8	11.4	13.4	15.4	17.9	19.9	22.4	24.4								
1.53	6.00	9.40	2281	12.52	15.88	1140	9.65	11.27	756	7.19	8.33	---	---	9.7	11.7	14.2	16.2	18.7	20.7								
1.55	4.00	6.40	2257	5.61	10.87	1129	4.41	7.12	748	3.38	5.24	10.2	11.7	13.7	15.7	18.2	20.2	22.7	24.7								
1.56	3.60	5.80	2250	3.88	9.56	1125	3.29	6.23	746	2.59	4.59	11.0	12.5	14.5	16.5	19.0	21.0	23.5	25.5								
1.56	8.60	13.60	2246	---	---	1123	15.57	15.81	745	11.79	11.98	---	---	---	---	---	---	13.2	15.3								
1.56	4.60	7.40	2237	8.02	12.67	1119	6.05	8.43	741	4.55	6.20	8.9	10.4	12.4	14.4	16.9	18.9	21.4	23.4								
1.57	4.20	6.80	2229	6.45	11.51	1115	4.96	7.57	739	3.78	5.57	9.7	11.2	13.2	15.2	17.7	19.7	22.2	24.2								
1.59	3.40	5.60	2208	2.99	8.88	1104	2.74	5.78	732	2.19	4.27	11.3	12.8	14.8	16.8	19.3	21.3	23.8	25.8								
1.59	6.80	11.00	2206	14.38	17.10	1103	11.60	12.79	731	8.66	9.51	---	---	---	9.7	12.2	14.3	16.8	18.8								
1.60	4.00	6.00	2193	5.64	10.90	1096	4.42	7.14	727	3.39	5.25	10.0	11.5	13.5	15.5	18.0	20.0	22.5	24.5								
1.61	3.60	6.00	2179	3.91	9.59	1090	3.31	6.24	722	2.60	4.60	10.8	12.3	14.3	16.3	18.8	20.8	23.3	25.3								
1.61	5.20	8.60	2172	10.18	14.26	1086	7.64	9.70	720	5.71	7.15	7.4	8.9	10.9	13.0	15.5	17.5	20.0	22.0								
ARC-LENGTH CORRECTION FACTOR →												0.74	0.76	0.79	0.81	0.84	0.86	0.88	0.90								

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	B68 BX68	B75 BX75	B81 BX81	B85 BX85	B90 BX90	B97 BX97	B105 BX105	B112 BX112	B120 BX120	B128 BX128	B144 BX144	B158 BX158	B173 BX173	B180 BX180	B195 BX195	B210 BX210	B240 BX240	B270 BX270
1.22	24.4	27.9	30.9	32.9	35.4	38.9	42.9	46.4	50.4	54.4	62.4	69.4	76.9	80.4	87.9	95.4	109.6	124.6
1.22	26.1	29.6	32.6	34.6	37.1	40.6	44.6	48.1	52.1	56.1	64.1	71.1	78.6	82.1	89.6	97.1	111.4	126.4
1.23	27.8	31.3	34.3	36.3	38.8	42.3	46.3	49.8	53.8	57.8	65.8	72.8	80.3	83.8	91.3	98.8	113.1	128.1
1.23	25.0	28.5	31.5	33.5	36.0	39.5	43.5	47.0	51.0	55.0	63.0	70.0	77.5	81.0	88.5	96.0	110.3	125.3
1.24	23.6	27.1	30.1	32.1	34.6	38.1	42.1	45.6	49.6	53.6	61.6	68.6	76.1	79.6	87.1	94.6	108.8	123.8
1.24	28.1	31.6	34.6	36.6	39.1	42.6	46.6	50.1	54.1	58.1	66.1	73.1	80.6	84.1	91.6	99.1	113.4	128.4
1.24	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.24	25.3	28.8	31.8	33.8	36.3	39.8	43.8	47.3	51.3	55.3	63.3	70.3	77.8	81.3	88.8	96.3	110.6	125.6
1.25	22.8	26.3	29.3	31.3	33.8	37.3	41.3	44.8	48.8	52.8	60.8	67.8	75.3	78.8	86.3	93.8	108.1	123.1
1.25	25.6	29.1	32.1	34.1	36.6	40.1	44.1	47.6	51.6	55.6	63.6	70.6	78.1	81.6	89.1	96.6	110.9	125.9
1.25	28.5	32.0	35.0	37.0	39.5	43.0	47.0	50.5	54.5	58.5	66.5	73.5	81.0	84.5	92.0	99.5	113.7	128.7
1.26	21.7	25.2	28.2	30.2	32.7	36.2	40.2	43.7	47.7	51.7	59.7	66.7	74.2	77.7	85.2	92.7	107.0	122.0
1.26	25.9	29.4	32.4	34.4	36.9	40.4	44.4	47.9	51.9	55.9	63.9	70.9	78.4	81.9	89.4	96.9	111.2	126.2
1.26	27.4	30.9	33.9	35.9	38.4	41.9	45.9	49.4	53.4	57.4	65.4	72.4	79.9	83.4	90.9	98.4	112.6	127.6
1.27	19.5	23.0	26.0	28.0	30.5	34.0	38.0	41.5	45.5	49.5	57.5	64.5	72.0	75.5	83.0	90.5	104.8	119.8
1.28	26.6	30.1	33.1	35.1	37.6	41.1	45.1	48.6	52.6	56.6	64.6	71.6	79.1	82.6	90.1	97.6	111.8	126.8
1.29	25.5	29.0	32.0	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.29	28.0	31.5	34.5	36.5	39.0	42.5	46.5	50.0	54.0	58.0	66.0	73.0	80.5	84.0	91.5	99.0	113.2	128.2
1.30	24.7	28.2	31.2	33.2	35.7	39.2	43.2	46.7	50.7	54.7	62.7	69.7	77.2	80.7	88.2	95.7	109.9	124.9
1.31	27.2	30.7	33.7	35.7	38.2	41.7	45.7	49.2	53.2	57.2	65.2	72.2	79.7	83.2	90.7	98.2	112.5	127.5
1.31	17.7	21.2	24.2	26.2	28.7	32.3	36.3	39.8	43.8	47.8	55.8	62.8	70.3	73.8	81.3	88.8	103.0	118.0
1.31	23.9	27.4	30.4	32.4	34.9	38.4	42.4	45.9	49.9	53.9	61.9	68.9	76.4	79.9	87.4	94.9	109.2	124.2
1.32	28.6	32.1	35.1	37.1	39.6	43.1	47.1	50.6	54.6	58.6	66.6	73.6	81.1	84.6	92.1	99.6	113.9	128.9
1.32	26.4	29.9	32.9	34.9	37.4	40.9	44.9	48.4	52.4	56.4	64.4	71.4	78.9	82.4	89.9	97.4	111.7	126.7
1.33	23.1	26.6	29.6	31.6	34.1	37.6	41.6	45.1	49.1	53.1	61.1	68.1	75.6	79.1	86.6	94.1	108.4	123.4
1.34	25.6	29.1	32.1	34.1	36.6	40.1	44.1	47.6	51.6	55.6	63.6	70.6	78.1	81.6	89.1	96.6	110.9	125.9
1.35	24.8	28.3	31.3	33.3	35.8	39.3	43.3	46.8	50.8	54.8	62.8	69.8	77.3	80.8	88.3	95.8	110.1	125.1
1.35	27.0	30.5	33.5	35.5	38.0	41.5	45.5	49.0	53.0	57.0	65.0	72.0	79.5	83.0	90.5	98.0	112.3	127.3
1.36	26.2	29.8	32.8	34.8	37.3	40.8	44.8	48.3	52.3	56.3	64.3	71.3	78.8	82.3	89.8	97.3	111.5	126.5
1.36	22.1	25.7	28.7	30.7	33.2	36.7	40.7	44.2	48.2	52.2	60.2	67.2	74.7	78.2	85.7	93.2	107.4	122.4
1.37	28.5	32.0	35.0	37.0	39.5	43.0	47.0	50.5	54.5	58.5	66.5	73.5	81.0	84.5	92.0	99.5	113.7	128.7
1.37	25.5	29.0	32.0	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.39	26.9	30.4	33.4	35.4	37.9	41.4	45.4	48.9	52.9	56.9	64.9	71.9	79.4	82.9	90.4	97.9	112.1	127.1
1.40	24.2	27.7	30.7	32.7	35.2	38.7	42.7	46.2	50.2	54.2	62.2	69.2	76.7	80.2	87.7	95.2	109.5	124.5
1.40	26.1	29.6	32.6	34.6	37.1	40.6	44.6	48.1	52.1	56.1	64.1	71.1	78.6	82.1	89.6	97.1	111.4	126.4
0.92	0.95	0.97	0.98	0.99	1.01	1.03	1.05	1.07	1.08	1.11	1.14	1.16	1.17	1.19	1.21	1.24	1.27	
1.40	28.0	31.5	34.5	36.5	39.0	42.5	46.5	50.0	54.0	58.0	66.0	73.0	80.5	84.0	91.5	99.0	113.2	128.2
1.41	23.4	26.9	29.9	31.9	34.4	37.9	41.9	45.4	49.4	53.4	61.4	68.4	75.9	79.4	86.9	94.4	108.7	123.7
1.42	18.3	21.8	24.8	26.8	29.4	32.9	36.9	40.4	44.4	48.4	56.4	63.4	70.9	74.4	81.9	89.4	103.6	118.6
1.43	28.3	31.8	34.8	36.8	39.3	42.8	46.8	50.3	54.3	58.3	66.3	73.3	80.8	84.3	91.8	99.3	113.6	128.6
1.43	16.7	20.2	23.2	25.2	27.8	31.3	35.3	38.8	42.8	46.8	54.8	61.8	69.3	72.8	80.3	87.8	102.1	117.1
1.44	22.4	26.0	29.0	31.0	33.5	37.0	41.0	44.5	48.5	52.5	60.5	67.5	75.0	78.5	86.0	93.5	107.7	122.7
1.45	24.3	27.9	30.9	32.9	35.4	38.9	42.9	46.4	50.4	54.4	62.4	69.4	76.9	80.4	87.9	95.4	109.6	124.6
1.46	27.0	30.5	33.5	35.5	38.0	41.5	45.5	49.0	53.0	57.0	65.0	72.0	79.5	83.0	90.5	98.0	112.3	127.3
1.46	20.4	23.9	26.9	28.9	31.4	34.9	38.9	42.4	46.4	50.4	58.4	65.4	72.9	76.4	83.9	91.4	105.7	120.7
1.48	28.1	31.6	34.6	36.6	39.1	42.6	46.6	50.1	54.1	58.1	66.1	73.1	80.6	84.1	91.6	99.1	113.4	128.4
1.48	26.6	30.1	33.1	35.1	37.6	41.1	45.1	48.6	52.6	56.6	64.6	71.6	79.1	82.6	90.1	97.6	111.8	126.8
1.50	23.7	27.2	30.2	32.2	34.7	38.2	42.2	45.7	49.7	53.7	61.7	68.7	76.2	79.7	87.2	94.7	109.0	124.0
1.51	27.7	31.2	34.2	36.2	38.7	42.2	46.2	49.7	53.7	57.7	65.7	72.7	80.2	83.7	91.2	98.7	112.9	127.9
1.53	26.4	29.9	32.9	34.9	37.4	40.9	44.9	48.4	52.4	56.4	64.4	71.4	78.9	82.4	89.9	97.4	111.7	126.7
1.53	22.7	26.3	29.3	31.3	33.8	37.3	41.3	44.8	48.8	52.8	60.8	67.8	75.3	78.8	86.3	93.8	108.0	123.0
1.55	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.56	27.5	31.0	34.0	36.0	38.5	42.0	46.0	49.5	53.5	57.5	65.5	72.5	80.0	83.5	91.0	98.5	112.8	127.8
1.56	17.3	20.8	23.8	25.8	28.4	31.9	35.9	39.4	43.4	47.4	55.4	62.4	69.9	73.4	80.9	88.4	102.7	117.7
1.56	25.4	28.9	31.9	34.0	36.5	40.0	44.0	47.5	51.5	55.5	63.5	70.5	78.0	81.5	89.0	96.5	110.7	125.7
1.57	26.2	29.7	32.7	34.7	37.2	40.7	44.7	48.2	52.2	56.2	64.2	71.2	78.7	82.2	89.7	97.2	111.5	126.5
1.59	27.8	31.3	34.3	36.3	38.8	42.3	46.3	49.8	53.8	57.8	65.8	72.8	80.3	83.8	91.3	98.8	113.1	128.1
1.59	20.8	24.3	27.3	29.4	31.9	35.4	39.4	42.9	46.9	50.9	58.9	65.9	73.4	76.9	84.4	91.9	106.2	121.2
1.60	26.5	30.1	33.1	35.1	37.6	41.1	45.1	48.6	52.6	56.6	64.6	71.6	79.1	82.6	90.1	97.6	111.8	126.8
1.61	27.3	30.8	33.8	35.8	38.3	41.8	45.8	49.3	53.4	57.4	65.4	72.4	79.9	83.4	90.9	98.4	112.6	127.6
1.61	24.0	27.5	30.5	32.5	35.0	38.5	42.5	46.0	50.0	54.0	62.0	69.0	76.5	80.0	87.5	95.0	109.3	124.3
0.92	0.94	0.96	0.98	0.99	1.01	1.03	1.05	1.06	1.08	1.11	1.13	1.16	1.17	1.19	1.21	1.24	1.27	

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B

S-L CLASSIC

BX

CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance							
	Datum	Diam.	Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		B35 BX35	B38 BX38	B42 BX42	B45 BX45	B51 BX51	B55 BX55	B60 BX60	B64 BX64
1.61	9.40	15.40	2168	---	---	1084	17.18	17.02	718	13.12	13.03	---	---	---	---	---	---	---	13.1
1.64	5.60	9.40	2137	11.46	15.17	1069	8.68	10.51	708	6.47	7.76	---	7.9	9.9	12.0	14.5	16.5	19.0	21.0
1.64	3.40	5.80	2136	3.02	8.91	1068	2.75	5.79	708	2.20	4.28	11.1	12.6	14.6	16.6	19.1	21.1	23.6	25.6
1.64	7.40	12.40	2129	---	---	1064	13.00	13.87	705	9.74	10.37	---	---	---	---	10.6	12.6	15.2	17.2
1.67	5.00	8.60	2094	9.53	13.80	1047	7.14	9.30	694	5.34	6.85	7.5	9.0	11.1	13.1	15.6	17.6	20.1	22.2
1.67	3.80	6.60	2092	4.83	10.30	1046	3.89	6.71	693	3.01	4.94	10.1	11.7	13.7	15.7	18.2	20.2	22.7	24.7
1.68	9.40	16.00	2088	---	---	1044	17.20	17.04	692	13.13	13.04	---	---	---	---	---	---	---	---
1.68	6.40	11.00	2083	13.59	16.62	1041	10.67	12.07	690	7.95	8.95	---	---	---	10.0	12.5	14.6	17.1	19.1
1.69	4.60	8.00	2077	8.09	12.74	1038	6.08	8.46	688	4.58	6.23	8.3	9.9	11.9	13.9	16.4	18.4	20.9	22.9
1.69	3.40	6.00	2069	3.05	8.94	1035	2.76	5.81	686	2.21	4.28	10.9	12.5	14.5	16.5	19.0	21.0	23.5	25.5
1.69	5.40	9.40	2066	10.87	14.76	1033	8.18	10.13	685	6.10	7.46	---	8.0	10.1	12.1	14.6	16.7	19.2	21.2
1.70	4.20	7.40	2057	6.53	11.58	1028	5.00	7.60	682	3.80	5.59	9.2	10.7	12.7	14.7	17.2	19.2	21.7	23.7
1.72	3.80	6.80	2034	4.85	10.32	1017	3.90	6.72	674	3.01	4.95	10.0	11.5	13.5	15.5	18.0	20.0	22.5	24.5
1.74	3.40	6.20	2006	3.07	8.96	1003	2.78	5.82	665	2.22	4.29	10.8	12.3	14.3	16.3	18.8	20.8	23.3	25.3
1.76	5.20	9.40	1994	10.25	14.32	997	7.68	9.73	661	5.73	7.17	---	8.2	10.2	12.3	14.8	16.8	19.3	21.3
1.76	8.60	15.40	1990	---	---	995	15.62	15.86	659	11.82	12.02	---	---	---	---	---	---	---	13.6
1.77	3.80	7.00	1978	4.87	10.34	989	3.91	6.73	656	3.02	4.95	9.8	11.3	13.3	15.3	17.9	19.9	22.4	24.4
1.78	4.00	7.40	1966	5.73	10.99	983	4.47	7.18	652	3.42	5.28	9.3	10.8	12.8	14.9	17.4	19.4	21.9	23.9
1.78	6.80	12.40	1964	14.47	17.19	982	11.64	12.83	651	8.69	9.54	---	---	---	---	11.0	13.0	15.6	17.6
1.79	6.00	11.00	1960	12.65	16.01	980	9.71	11.33	649	7.23	8.38	---	---	---	10.3	12.8	14.8	17.4	19.4
1.80	3.40	6.40	1947	3.09	8.98	973	2.79	5.83	645	2.22	4.30	10.6	12.1	14.1	16.1	18.6	20.7	23.2	25.2
1.80	7.40	13.60	1946	---	---	973	13.03	13.90	645	9.76	10.39	---	---	---	---	11.5	14.1	16.1	18.1
1.81	4.60	8.60	1937	8.13	12.79	969	6.10	8.49	642	4.59	6.24	7.8	9.3	11.4	13.4	15.9	17.9	20.4	22.4
1.83	8.60	16.00	1917	---	---	958	15.63	15.87	635	11.83	12.03	---	---	---	---	---	---	---	13.1
1.83	4.20	8.00	1909	6.57	11.63	955	5.02	7.63	633	3.82	5.61	8.6	10.1	12.2	14.2	16.7	18.7	21.2	23.2
ARC-LENGTH CORRECTION FACTOR →												0.74	0.76	0.79	0.81	0.84	0.86	0.88	0.90
1.85	3.40	6.60	1891	3.11	9.00	945	2.79	5.84	627	2.23	4.30	10.4	11.9	14.0	16.0	18.5	20.5	23.0	25.0
1.87	3.80	7.40	1876	4.90	10.37	938	3.92	6.75	622	3.03	4.96	9.4	11.0	13.0	15.0	17.5	19.5	22.0	24.0
1.89	6.40	12.40	1854	13.67	16.69	927	10.70	12.11	615	7.98	8.98	---	---	---	---	11.2	13.3	15.9	17.9
1.90	3.40	6.80	1838	3.12	9.01	919	2.80	5.84	609	2.23	4.31	10.3	11.8	13.8	15.8	18.3	20.3	22.8	24.8
1.91	5.60	11.00	1836	11.56	15.26	918	8.72	10.56	609	6.50	7.79	---	---	8.4	10.5	13.1	15.1	17.7	19.7
1.92	4.00	8.00	1825	5.77	11.03	913	4.48	7.20	605	3.43	5.29	8.8	10.3	12.3	14.3	16.9	18.9	21.4	23.4
1.92	9.40	18.40	1821	---	---	910	17.24	17.08	603	13.16	13.07	---	---	---	---	---	---	---	---
1.95	6.80	13.60	1795	14.52	17.23	898	11.67	12.85	595	8.71	9.56	---	---	---	---	---	11.9	14.5	16.5
1.96	3.40	7.00	1788	3.13	9.02	894	2.81	5.85	593	2.24	4.31	10.1	11.6	13.6	15.6	18.1	20.2	22.7	24.7
1.96	4.20	8.60	1781	6.61	11.66	891	5.04	7.64	590	3.83	5.62	8.1	9.6	11.6	13.7	16.2	18.2	20.7	22.7
1.97	4.60	9.40	1779	8.18	12.83	889	6.12	8.51	590	4.61	6.25	---	8.6	10.6	12.7	15.2	17.2	19.8	21.8
1.97	5.40	11.00	1775	10.96	14.85	887	8.22	10.17	588	6.13	7.49	---	---	8.6	10.7	13.2	15.3	17.8	19.8
2.01	6.00	12.40	1745	12.71	16.06	872	9.74	11.36	578	7.25	8.40	---	---	---	---	11.5	13.6	16.1	18.2
2.01	3.80	8.00	1742	4.93	10.40	871	3.94	6.76	577	3.04	4.97	8.9	10.4	12.5	14.5	17.0	19.0	21.5	23.5
2.03	7.40	15.40	1723	---	---	862	13.06	13.93	571	9.78	10.41	---	---	---	---	---	---	12.4	14.4
2.04	5.20	11.00	1713	10.32	14.40	857	7.71	9.77	568	5.76	7.19	---	---	8.7	10.8	13.4	15.4	17.9	20.0
2.06	4.00	8.60	1703	5.79	11.06	852	4.50	7.21	564	3.44	5.30	8.2	9.7	11.8	13.8	16.3	18.4	20.9	22.9
2.07	6.40	13.60	1695	13.70	16.73	847	10.72	12.13	562	7.99	8.99	---	---	---	---	10.1	12.2	14.8	16.8
2.09	8.60	18.40	1672	---	---	836	15.66	15.90	554	11.85	12.04	---	---	---	---	---	---	---	---
2.11	7.40	16.00	1660	---	---	830	13.07	13.93	550	9.78	10.42	---	---	---	---	---	---	11.7	13.9
ARC-LENGTH CORRECTION FACTOR →												0.72	0.75	0.77	0.80	0.83	0.85	0.88	0.89
2.11	3.60	8.00	1658	4.07	9.75	829	3.39	6.32	549	2.65	4.65	9.0	10.6	12.6	14.6	17.2	19.2	21.7	23.7
2.12	5.00	11.00	1651	9.65	13.92	826	7.20	9.36	547	5.38	6.89	---	---	8.8	10.9	13.5	15.6	18.1	20.1
2.14	4.20	9.40	1635	6.64	11.69	818	5.05	7.66	542	3.84	5.63	7.3	8.8	10.9	13.0	15.5	17.5	20.1	22.1
2.14	5.60	12.40	1635	11.60	15.31	817	8.75	10.58	542	6.52	7.81	---	---	9.1	11.8	13.9	16.4	18.5	20.5
2.19	6.00	13.60	1595	12.73	16.09	797	9.75	11.37	528	7.26	8.41	---	---	---	---	10.3	12.4	15.0	17.1
2.20	6.80	15.40	1590	14.56	17.28	795	11.69	12.87	527	8.72	9.57	---	---	---	---	---	---	12.7	14.9
2.22	5.40	12.40	1580	10.99	14.88	790	8.24	10.19	524	6.14	7.51	---	---	9.3	11.9	14.0	16.6	18.6	18.6
2.22	3.40	8.00	1574	3.17	9.06	787	2.83	5.87	522	2.25	4.33	9.2	10.7	12.7	14.8	17.3	19.3	21.8	23.8
2.24	4.00	9.40	1564	5.82	11.08	782	4.51	7.23	518	3.45	5.31	7.4	9.0	11.1	13.1	15.6	17.7	20.2	22.2
2.27	8.60	20.00	1540	---	---	770	15.67	15.92	510	11.85	12.05	---	---	---	---	---	---	---	---
2.28	6.80	16.00	1532	14.57	17.28	766	11.69	12.88	508	8.72	9.57	---	---	---	---	---	---	12.1	14.3
2.29	4.60	11.00	1528	8.22	12.88	764	6.15	8.53	506	4.62	6.27	---	---	9.1	11.2	13.8	15.8	18.4	20.4
2.29	5.20	12.40	1525	10.35	14.43	763	7.73	9.79	505	5.77	7.20	---	---	9.4	12.0	14.1	16.7	18.7	18.7
2.33	6.40	15.40	1501	13.74	16.76	751	10.74	12.14	498	8.00	9.00	---	---	---	---	---	---	13.0	15.1
2.34	5.60	13.60	1494	11.62	15.33	747	8.76	10.60	495	6.52	7.81	---	---	---	---	10.6	12.7	15.3	17.4
ARC-LENGTH CORRECTION FACTOR →												0.71	0.73	0.75	0.76	0.80	0.82	0.85	0.87

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	B68 BX68	B75 BX75	B81 BX81	B85 BX85	B90 BX90	B97 BX97	B105 BX105	B112 BX112	B120 BX120	B128 BX128	B144 BX144	B158 BX158	B173 BX173	B180 BX180	B195 BX195	B210 BX210	B240 BX240	B270 BX270
1.61	15.1	18.7	21.7	23.7	26.3	29.8	33.8	37.3	41.3	45.3	53.3	60.4	67.9	71.4	78.9	86.4	100.6	115.6
1.64	23.0	26.6	29.6	31.6	34.1	37.6	41.6	45.1	49.1	53.1	61.1	68.1	75.6	79.1	86.6	94.1	108.4	123.4
1.64	27.7	31.2	34.2	36.2	38.7	42.2	46.2	49.7	53.7	57.7	65.7	72.7	80.2	83.7	91.2	98.7	112.9	127.9
1.64	19.2	22.7	25.7	27.7	30.3	33.8	37.8	41.3	45.3	49.3	57.3	64.3	71.8	75.3	82.8	90.3	104.6	119.6
1.67	24.2	27.7	30.7	32.7	35.2	38.7	42.7	46.2	50.2	54.2	62.2	69.2	76.7	80.2	87.7	95.2	109.5	124.5
1.67	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.68	14.6	18.2	21.2	23.2	25.7	29.3	33.3	36.8	40.8	44.8	52.9	59.9	67.4	70.9	78.4	85.9	100.2	115.2
1.68	21.1	24.6	27.6	29.7	32.2	35.7	39.7	43.2	47.2	51.2	59.2	66.2	73.7	77.2	84.7	92.2	106.5	121.5
1.69	25.0	28.5	31.5	33.5	36.0	39.5	43.5	47.0	51.0	55.0	63.0	70.0	77.5	81.0	88.5	96.0	110.2	125.2
1.69	27.5	31.0	34.0	36.0	38.5	42.0	46.0	49.5	53.5	57.5	65.5	72.5	80.0	83.5	91.0	98.5	112.8	127.8
1.69	23.2	26.7	29.7	31.7	34.2	37.7	41.7	45.2	49.2	53.2	61.2	68.3	75.8	79.3	86.8	94.3	108.5	123.5
1.70	25.7	29.3	32.3	34.3	36.8	40.3	44.3	47.8	51.8	55.8	63.8	70.8	78.3	81.8	89.3	96.8	111.0	126.0
1.72	26.5	30.0	33.0	35.0	37.5	41.1	45.1	48.6	52.6	56.6	64.6	71.6	79.1	82.6	90.1	97.6	111.8	126.8
1.74	27.3	30.8	33.8	35.8	38.3	41.8	45.8	49.3	53.3	57.3	65.3	72.4	79.9	83.4	90.9	98.4	112.6	127.6
1.76	23.3	26.9	29.9	31.9	34.4	37.9	41.9	45.4	49.4	53.4	61.4	68.4	75.9	79.4	86.9	94.4	108.7	123.7
1.76	15.7	19.3	22.3	24.3	26.8	30.4	34.4	37.9	41.9	45.9	54.0	61.0	68.5	72.0	79.5	87.0	101.3	116.3
1.77	26.4	29.9	32.9	34.9	37.4	40.9	44.9	48.4	52.4	56.4	64.4	71.4	78.9	82.4	89.9	97.4	111.7	126.7
1.78	25.9	29.4	32.4	34.4	36.9	40.4	44.4	47.9	51.9	55.9	63.9	70.9	78.4	81.9	89.4	96.9	111.2	126.2
1.78	19.6	23.2	26.2	28.2	30.7	34.2	38.2	41.7	45.7	49.7	57.8	64.8	72.3	75.8	83.3	90.8	105.0	120.0
1.79	21.4	24.9	27.9	30.0	32.5	36.0	40.0	43.5	47.5	51.5	59.5	66.5	74.0	77.5	85.0	92.5	106.8	121.8
1.80	27.2	30.7	33.7	35.7	38.2	41.7	45.7	49.2	53.2	57.2	65.2	72.2	79.7	83.2	90.7	98.2	112.4	127.4
1.80	18.2	21.7	24.7	26.7	29.3	32.8	36.8	40.3	44.3	48.3	56.3	63.3	70.8	74.4	81.9	89.4	103.6	118.6
1.81	24.5	28.0	31.0	33.0	35.5	39.0	43.0	46.5	50.5	54.5	62.5	69.5	77.0	80.5	88.0	95.5	109.8	124.8
1.83	15.1	18.7	21.8	23.8	26.3	29.9	33.9	37.4	41.4	45.4	53.5	60.5	68.0	71.5	79.0	86.5	100.8	115.8
1.83	25.3	28.8	31.8	33.8	36.3	39.8	43.8	47.3	51.3	55.3	63.3	70.3	77.8	81.3	88.8	96.3	110.6	125.6
0.92	0.94	0.96	0.98	0.99	1.01	1.03	1.05	1.06	1.08	1.11	1.13	1.16	1.17	1.19	1.21	1.24	1.27	1.27
1.85	27.0	30.5	33.5	35.5	38.0	41.5	45.5	49.0	53.0	57.0	65.0	72.0	79.5	83.0	90.5	98.0	112.3	127.3
1.87	26.0	29.6	32.6	34.6	37.1	40.6	44.6	48.1	52.1	56.1	64.1	71.1	78.6	82.1	89.6	97.1	111.3	126.3
1.89	19.9	23.5	26.5	28.5	31.0	34.5	38.5	42.0	46.0	50.1	58.1	65.1	72.6	76.1	83.6	91.1	105.3	120.4
1.90	26.8	30.3	33.3	35.4	37.9	41.4	45.4	48.9	52.9	56.9	64.9	71.9	79.4	82.9	90.4	97.9	112.1	127.1
1.91	21.7	25.2	28.2	30.2	32.8	36.3	40.3	43.8	47.8	51.8	59.8	66.8	74.3	77.8	85.3	92.8	107.1	122.1
1.92	25.4	28.9	31.9	33.9	36.4	39.9	43.9	47.4	51.4	55.4	63.4	70.4	77.9	81.4	88.9	96.4	110.7	125.7
1.92	---	15.9	19.0	21.1	23.6	27.2	31.3	34.8	38.8	42.8	50.9	57.9	65.4	68.9	76.4	84.0	98.2	113.2
1.95	18.6	22.1	25.2	27.2	29.7	33.2	37.2	40.7	44.8	48.8	56.8	63.8	71.3	74.8	82.3	89.8	104.1	119.1
1.96	26.7	30.2	33.2	35.2	37.7	41.2	45.2	48.7	52.7	56.7	64.7	71.7	79.2	82.7	90.2	97.7	112.0	127.0
1.96	24.8	28.3	31.3	33.3	35.8	39.3	43.3	46.8	50.8	54.8	62.8	69.8	77.3	80.8	88.3	95.8	110.1	125.1
1.97	23.8	27.3	30.3	32.3	34.8	38.3	42.3	45.8	49.9	53.9	61.9	68.9	76.4	79.9	87.4	94.9	109.1	124.1
1.97	21.8	25.4	28.4	30.4	32.9	36.4	40.4	43.9	47.9	52.0	60.0	67.0	74.5	78.0	85.5	93.0	107.2	122.2
2.01	20.2	23.7	26.8	28.8	31.3	34.8	38.8	42.3	46.3	50.4	58.4	65.4	72.9	76.4	83.9	91.4	105.7	120.7
2.01	25.6	29.1	32.1	34.1	36.6	40.1	44.1	47.6	51.6	55.6	63.6	70.6	78.1	81.6	89.1	96.6	110.9	125.9
2.03	16.5	20.1	23.2	25.2	27.7	31.2	35.3	38.8	42.8	46.8	54.9	61.9	69.4	72.9	80.4	87.9	102.2	117.2
2.04	22.0	25.5	28.5	30.5	33.1	36.6	40.6	44.1	48.1	52.1	60.1	67.1	74.6	78.1	85.6	93.1	107.4	122.4
2.06	24.9	28.4	31.4	33.4	35.9	39.4	43.4	47.0	51.0	55.0	63.0	70.0	77.5	81.0	88.5	96.0	110.2	125.2
2.07	18.9	22.4	25.4	27.5	30.0	33.5	37.5	41.0	45.1	49.1	57.1	64.1	71.6	75.1	82.6	90.1	104.4	119.4
2.09	---	16.5	19.6	21.7	24.2	27.8	31.8	35.4	39.4	43.4	51.5	58.5	66.0	69.5	77.0	84.6	98.8	113.8
2.11	16.0	19.6	22.6	24.7	27.2	30.7	34.8	38.3	42.3	46.3	54.4	61.4	68.9	72.4	79.9	87.4	101.7	116.7
0.91	0.94	0.96	0.97	0.98	1.00	1.02	1.04	1.06	1.08	1.11	1.13	1.15	1.17	1.19	1.21	1.24	1.24	1.27
2.11	25.7	29.2	32.2	34.2	36.7	40.2	44.2	47.7	51.7	55.8	63.8	70.8	78.3	81.8	89.3	96.8	111.0	126.0
2.12	22.1	25.7	28.7	30.7	33.2	36.7	40.7	44.2	48.2	52.3	60.3	67.3	74.8	78.3	85.8	93.3	107.5	122.6
2.14	24.1	27.6	30.6	32.6	35.1	38.6	42.6	46.2	50.2	54.2	62.2	69.2	76.7	80.2	87.7	95.2	109.4	124.4
2.14	20.5	24.0	27.1	29.1	31.6	35.1	39.1	42.6	46.6	50.7	58.7	65.7	73.2	76.7	84.2	91.7	106.0	121.0
2.19	19.1	22.7	25.7	27.8	30.3	33.8	37.8	41.3	45.4	49.4	57.4	64.4	71.9	75.4	82.9	90.4	104.7	119.7
2.20	16.9	20.5	23.6	25.6	28.1	31.7	35.7	39.2	43.3	47.3	55.3	62.3	69.8	73.3	80.8	88.4	102.6	117.6
2.22	20.6	24.2	27.2	29.2	31.7	35.3	39.3	42.8	46.8	50.8	58.8	65.8	73.3	76.8	84.4	91.9	106.1	121.1
2.22	25.8	29.4	32.4	34.4	36.9	40.4	44.4	47.9	51.9	55.9	63.9	70.9	78.4	81.9	89.4	96.9	111.2	126.2
2.24	24.2	27.7	30.8	32.8	35.3	38.8	42.8	46.3	50.3	54.3	62.3	69.3	76.8	80.3	87.8	95.3	109.6	124.6
2.27	---	14.9	18.0	20.1	22.7	26.3	30.4	34.0	38.0	42.1	50.1	57.2	64.7	68.2	75.7	83.3	97.5	112.6
2.28	16.4	20.0	23.0	25.1	27.6	31.2	35.2	38.7	42.8	46.8	54.8	61.8	69.3	72.9	80.4	87.9	102.1	117.2
2.29	22.4	26.0	29.0	31.0	33.5	37.0	41.0	44.5	48.5	52.6	60.6	67.6	75.1	78.6	86.1	93.6	107.9	122.9
2.29	20.8	24.3	27.3	29.4	31.9	35.4	39.4	42.9	46.9	51.0	59.0	66.0	73.5	77.0	84.5	92.0	106.3	121.3
2.33	17.2	20.8	23.9	25.9	28.4	32.0	36.0	39.5	43.6	47.6	55.6	62.6	70.1	73.6	81.2	88.7	102.9	118.0
2.34	19.4	23.0	26.0	28.0	30.6	34.1	38.1	41.6	45.7	49.7	57.7	64.7	72.2	75.7	83.2	90.7	105.0	120.0
0.89	0.92	0.94	0.96	0.97	.99	1.01	1.03	1.05	1.07	1.10	1.12	1.15	1.16	1.18	1.20	1.23	1.26	1.26

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance																	
	Datum	Diam.	Driven	HP	Per Belt	Driven	HP	Per Belt	Driven	HP	Per Belt	B35	B38	B42	B46	B51	B55	B60	B64										
	Driver	Driven	RPM	B	BX	RPM	B	BX	RPM	B	BX	BX35	BX38	BX42	BX46	BX51	BX55	BX60	BX64										
2.35	3.80	9.40	1492	4.98	10.44	746	3.96	6.79	494	3.06	4.99	7.5	9.1	11.2	13.2	15.8	17.8	20.3	22.4										
2.38	5.00	12.40	1470	9.68	13.95	735	7.21	9.38	487	5.39	6.90	---	---	---	9.5	12.2	14.3	16.8	18.9										
2.38	3.40	8.60	1469	3.19	9.08	734	2.84	5.88	487	2.26	4.33	8.6	10.1	12.2	14.2	16.8	18.8	21.3	23.3										
2.42	7.40	18.40	1448	---	---	724	13.08	13.95	480	9.79	10.43	---	---	---	---	---	---	---	---										
2.42	5.40	13.60	1444	11.01	14.90	722	8.25	10.20	479	6.15	7.51	---	---	---	---	10.7	12.8	15.4	17.5										
2.46	3.60	9.40	1420	4.10	9.78	710	3.41	6.34	471	2.66	4.66	7.6	9.2	11.3	13.4	15.9	18.0	20.5	22.5										
2.48	6.00	15.40	1412	12.76	16.12	706	9.77	11.39	468	7.27	8.41	---	---	---	---	---	---	13.3	15.4										
2.49	4.20	11.00	1405	6.67	11.73	702	5.07	7.68	466	3.85	5.64	---	---	9.3	11.5	14.1	16.1	18.7	20.7										
2.51	5.20	13.60	1394	10.37	14.45	697	7.74	9.79	462	5.78	7.21	---	---	---	---	10.8	13.0	15.6	17.6										
2.57	6.00	16.00	1361	12.77	16.13	680	9.77	11.39	451	7.27	8.42	---	---	---	---	---	---	12.6	14.8										
2.57	4.60	12.40	1361	8.25	12.90	680	6.16	8.54	445	4.63	6.28	---	---	---	9.8	12.4	14.5	17.1	19.2										
2.60	3.40	9.40	1348	3.21	9.10	674	2.84	5.88	447	2.26	4.34	7.8	9.4	11.5	13.5	16.1	18.1	20.6	22.7										
2.60	9.40	25.00	1347	---	---	674	17.28	17.12	446	13.19	13.10	---	---	---	---	---	---	---	---										
2.61	4.00	11.00	1343	5.85	11.11	672	4.53	7.24	445	3.46	5.32	---	---	9.5	11.6	14.2	16.2	18.8	20.8										
2.62	6.80	18.40	1336	14.59	17.31	668	11.70	12.89	443	8.73	9.58	---	---	---	---	---	---	---	---										
2.62	7.40	20.00	1334	---	---	667	13.09	13.96	442	9.80	10.43	---	---	---	---	---	---	---	---										
2.64	5.60	15.40	1324	11.64	15.35	662	8.77	10.61	439	6.53	7.82	---	---	---	---	10.8	13.5	15.6	17.6										
2.73	3.80	11.00	1282	5.00	10.47	641	3.97	6.80	425	3.06	5.00	---	7.4	9.6	11.7	14.3	16.4	18.9	21.0										
2.74	5.40	15.40	1279	11.03	14.92	640	8.26	10.21	424	6.16	7.52	---	---	---	---	10.9	13.7	15.8	17.8										
2.78	6.40	18.40	1261	13.76	16.79	631	10.75	12.16	418	8.01	9.01	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR -->												0.71	0.73	0.75	0.76	0.80	0.82	0.85	0.87										
2.80	4.20	12.40	1251	6.69	11.74	625	5.08	7.69	415	3.85	5.65	---	---	---	10.0	12.7	14.8	17.4	19.4										
2.81	4.60	13.60	1244	8.26	12.91	622	6.16	8.55	412	4.63	6.28	---	---	---	---	11.2	13.4	16.0	18.1										
2.83	5.20	15.40	1235	10.39	14.46	617	7.75	9.80	409	5.78	7.21	---	---	---	---	11.1	13.8	15.9	18.9										
2.84	5.40	16.00	1232	11.04	14.93	616	8.26	10.21	408	6.16	7.52	---	---	---	---	---	---	13.0	15.2										
2.84	6.80	20.00	1231	14.60	17.32	615	11.71	12.90	408	8.73	9.59	---	---	---	---	---	---	---	---										
2.87	3.60	11.00	1220	4.13	9.80	610	3.42	6.35	404	2.67	4.67	---	7.5	9.7	11.9	14.5	16.5	19.1	21.1										
2.93	4.00	12.40	1196	5.86	11.12	598	4.53	7.25	396	3.46	5.33	---	---	---	10.2	12.8	14.9	17.5	19.6										
2.94	5.00	15.40	1190	9.71	13.98	595	7.23	9.39	395	5.40	6.91	---	---	---	---	11.2	13.9	16.0	18.0										
2.95	6.00	18.40	1187	12.78	16.14	593	9.78	11.40	393	7.28	8.42	---	---	---	---	---	---	---	---										
3.01	6.40	20.00	1162	13.77	16.80	581	10.76	12.16	385	8.01	9.01	---	---	---	---	---	---	---	---										
3.02	3.40	11.00	1158	3.22	9.11	579	2.85	5.89	384	2.27	4.34	---	7.7	9.9	12.0	14.6	16.7	19.2	21.3										
3.05	5.00	16.00	1147	9.72	13.98	573	7.23	9.39	380	5.40	6.91	---	---	---	---	---	---	13.3	15.4										
3.06	4.20	13.60	1143	6.70	11.75	572	5.09	7.69	379	3.86	5.65	---	---	---	---	11.5	13.6	16.2	18.3										
3.07	3.80	12.40	1141	5.01	10.48	571	3.98	6.80	378	3.07	5.00	---	---	---	10.3	13.0	15.1	17.7	19.7										
3.11	9.40	30.00	1125	---	---	563	17.29	17.13	373	13.19	13.11	---	---	---	---	---	---	---	---										
3.15	5.60	18.40	1112	11.66	15.37	556	8.78	10.62	369	6.54	7.83	---	---	---	---	---	---	---	12.4										
3.18	4.60	15.40	1102	8.27	12.92	551	6.17	8.56	365	4.64	6.29	---	---	---	---	---	11.4	14.2	16.3										
3.20	6.00	20.00	1093	12.79	16.15	547	9.78	11.40	362	7.28	8.42	---	---	---	---	---	---	---	---										
3.20	4.00	13.60	1093	5.87	11.13	547	4.54	7.25	362	3.47	5.33	---	---	---	---	11.6	13.7	16.4	18.5										
3.22	3.60	12.40	1086	4.14	9.82	543	3.42	6.35	360	2.67	4.67	---	---	8.2	10.4	13.1	15.2	17.8	19.9										
3.26	5.40	18.40	1075	11.05	14.94	537	8.27	10.22	356	6.16	7.52	---	---	---	---	---	---	---	12.5										
3.27	7.40	25.00	1071	---	---	535	13.10	13.97	355	9.80	10.44	---	---	---	---	---	---	---	---										
3.30	4.60	16.00	1061	8.27	12.93	531	6.17	8.56	352	4.64	6.29	---	---	---	---	---	10.7	13.5	15.7										
3.36	3.80	13.60	1043	5.02	10.49	521	3.98	6.81	346	3.07	5.00	---	---	---	8.9	11.7	13.9	16.5	18.6										
3.37	5.20	18.40	1037	10.41	14.48	519	7.75	9.81	344	5.79	7.22	---	---	---	---	---	---	---	12.7										
ARC-LENGTH CORRECTION FACTOR -->												---	0.70	0.72	0.74	0.77	0.80	0.83	0.86										
3.39	3.40	12.40	1031	3.23	9.12	516	2.86	5.90	342	2.27	4.34	---	---	8.3	10.5	13.2	15.3	17.9	20.0										
3.42	5.60	20.00	1025	11.67	15.38	512	8.78	10.62	340	6.54	7.83	---	---	---	---	---	---	---	---										
3.46	4.20	15.40	1013	6.71	11.76	506	5.09	7.70	336	3.86	5.65	---	---	---	---	---	11.7	14.4	16.6										
3.50	5.00	18.40	1000	9.73	13.99	500	7.23	9.40	331	5.41	6.91	---	---	---	---	---	---	---	12.8										
3.53	3.60	13.60	993	4.14	9.82	496	3.42	6.36	329	2.67	4.68	---	---	---	9.0	11.8	14.0	16.6	18.7										
3.53	5.40	20.00	990	11.06	14.95	495	8.27	10.22	328	6.17	7.53	---	---	---	---	---	---	---	---										
3.54	6.80	25.00	988	14.62	17.34	494	11.72	12.91	328	8.74	9.59	---	---	---	---	---	---	---	---										
3.61	4.00	15.40	968	5.88	11.14	484	4.54	7.26	321	3.47	5.33	---	---	---	---	---	11.8	14.6	16.7										
3.66	5.20	20.00	956	10.41	14.49	478	7.76	9.81	317	5.79	7.22	---	---	---	---	---	---	---	---										
3.71	3.40	13.60	943	3.24	9.13	471	2.86	5.90	312	2.27	4.35	---	---	---	9.1	12.0	14.1	16.8	18.9										
3.75	6.40	25.00	933	13.79	16.82	466	10.77	12.17	309	8.02	9.02	---	---	---	---	---	---	---	---										
3.75	4.00	16.00	933	5.88	11.14	466	4.54	7.26	309	3.47	5.33	---	---	---	---	---	11.1	13.9	16.1										
3.78	4.60	18.40	925	8.28	12.93	463	6.18	8.56	307	4.64	6.29	---	---	---	---	---	---	---	13.0										
3.79	3.80	15.40	924	5.03	10.50	462	3.99	6.81	306	3.07	5.01	---	---	---	---	---	11.9	14.7	16.8										
3.80	5.00	20.00	921	9.73	14.00	461	7.24	9.40	305	5.41	6.91	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR -->												---	---	0.70	0.72	0.75	0.78	0.81	0.83										

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	B68 BX68	B75 BX75	B81 BX81	B85 BX85	B90 BX90	B97 BX97	B105 BX105	B112 BX112	B120 BX120	B128 BX128	B144 BX144	B158 BX158	B173 BX173	B180 BX180	B195 BX195	B210 BX210	B240 BX240	B270 BX270
2.35	24.4	27.9	30.9	32.9	35.4	38.9	42.9	46.5	50.5	54.5	62.5	69.5	77.0	80.5	88.0	95.5	109.8	124.8
2.38	20.9	24.5	27.5	29.5	32.0	35.5	39.6	43.1	47.1	51.1	59.1	66.1	73.6	77.2	84.7	92.2	106.4	121.4
2.38	25.3	28.9	31.9	33.9	36.4	39.9	43.9	47.4	51.4	55.4	63.4	70.4	77.9	81.4	88.9	96.4	110.7	125.7
2.42	13.5	17.3	20.4	22.5	25.0	28.6	32.7	36.2	40.3	44.3	52.4	59.4	66.9	70.4	78.0	85.5	99.7	114.8
2.42	19.6	23.1	26.2	28.2	30.7	34.2	38.3	41.8	45.8	49.8	57.8	64.9	72.4	75.9	83.4	90.9	105.2	120.2
2.46	24.5	28.0	31.1	33.1	35.6	39.1	43.1	46.6	50.6	54.6	62.6	69.6	77.1	80.6	88.1	95.7	109.9	124.9
2.48	17.5	21.1	24.1	26.2	28.7	32.3	36.3	39.8	43.8	47.9	55.9	62.9	70.4	74.0	81.5	89.0	103.2	118.3
2.49	22.7	26.2	29.3	31.3	33.8	37.3	41.3	44.8	48.8	52.9	60.9	67.9	75.4	78.9	86.4	93.9	108.2	123.2
2.51	19.7	23.3	26.3	28.3	30.9	34.4	38.4	41.9	46.0	50.0	58.0	65.0	72.5	76.0	83.5	91.0	105.3	120.3
2.57	16.9	20.5	23.6	25.6	28.2	31.7	35.8	39.3	43.3	47.4	55.4	62.4	70.0	73.5	81.0	88.5	102.8	117.8
2.57	21.2	24.7	27.8	29.8	32.3	35.8	39.9	43.4	47.4	51.4	59.4	66.4	74.0	77.5	85.0	92.5	106.7	121.7
2.60	24.7	28.2	31.2	33.2	35.7	39.2	43.2	46.8	50.8	54.8	62.8	69.8	77.3	80.8	88.3	95.8	110.1	125.1
2.60	---	---	---	---	---	20.9	25.2	28.8	33.0	37.1	45.2	52.3	59.9	63.4	71.0	78.5	92.8	107.9
2.61	22.9	26.4	29.4	31.4	33.9	37.5	41.5	45.0	49.0	53.0	61.0	68.0	75.5	79.0	86.6	94.1	108.3	123.3
2.62	13.9	17.7	20.8	22.9	25.5	29.0	33.1	36.7	40.7	44.7	52.8	59.8	67.4	70.9	78.4	85.9	100.2	115.2
2.62	---	15.6	18.8	20.9	23.5	27.2	31.3	34.8	38.9	42.9	51.0	58.0	65.6	69.1	76.6	84.2	98.4	113.5
2.64	17.7	21.4	24.4	26.5	29.0	32.5	36.6	40.1	44.1	48.2	56.2	63.2	70.7	74.3	81.8	89.3	103.5	118.6
2.73	23.0	26.5	29.6	31.6	34.1	37.6	41.6	45.1	49.2	53.2	61.2	68.2	75.7	79.2	86.7	94.2	108.5	123.5
2.74	17.9	21.5	24.6	26.6	29.1	32.7	36.7	40.3	44.3	48.3	56.4	63.4	70.9	74.4	81.9	89.4	103.7	118.7
2.78	14.2	17.9	21.1	23.2	25.7	29.3	33.4	36.9	41.0	45.0	53.1	60.1	67.7	71.2	78.7	86.2	100.5	115.5
0.89	0.92	0.94	0.96	0.97	0.99	1.01	1.03	1.05	1.07	1.10	1.12	1.15	1.16	1.18	1.20	1.23	1.26	
2.80	21.5	25.0	28.1	30.1	32.6	36.1	40.2	43.7	47.7	51.7	59.7	66.7	74.3	77.8	85.3	92.8	107.0	122.1
2.81	20.1	23.7	26.7	28.8	31.3	34.8	38.9	42.4	46.4	50.4	58.4	65.4	73.0	76.5	84.0	91.5	105.8	120.8
2.83	18.0	21.6	24.7	26.7	29.3	32.8	36.9	40.4	44.4	48.5	56.5	63.5	71.0	74.6	82.1	89.6	103.9	118.9
2.84	17.3	20.9	24.0	26.1	28.6	32.2	36.2	39.7	43.8	47.8	55.8	62.9	70.4	73.9	81.4	88.9	103.2	118.2
2.84	---	16.0	19.2	21.3	24.0	27.6	31.7	35.2	39.3	43.4	51.4	58.5	66.0	69.5	77.1	84.6	98.9	113.9
2.87	23.1	26.7	29.7	31.7	34.2	37.8	41.8	45.3	49.3	53.3	61.3	68.3	75.8	79.4	86.9	94.4	108.6	123.6
2.93	21.6	25.2	28.2	30.2	32.8	36.3	40.3	43.8	47.8	51.9	59.9	66.9	74.4	77.9	85.4	92.9	107.2	122.2
2.94	18.1	21.8	24.8	26.9	29.4	33.0	37.0	40.6	44.6	48.6	56.6	63.7	71.2	74.7	82.2	89.7	104.0	119.0
2.95	14.4	18.2	21.3	23.4	26.0	29.6	33.7	37.2	41.3	45.3	53.4	60.4	68.0	71.5	79.0	86.5	100.8	115.8
3.01	---	16.3	19.5	21.6	24.2	27.8	32.0	35.5	39.6	43.6	51.7	58.8	66.3	69.8	77.4	84.9	99.2	114.2
3.02	23.3	26.8	29.9	31.9	34.4	37.9	41.9	45.4	49.4	53.5	61.5	68.5	76.0	79.5	87.0	94.5	108.8	123.8
3.05	17.6	21.2	24.3	26.3	28.9	32.4	36.5	40.0	44.1	48.1	56.1	63.2	70.7	74.2	81.7	89.2	103.5	118.5
3.06	20.4	24.0	27.0	29.0	31.6	35.1	39.1	42.7	46.7	50.7	58.7	65.8	73.3	76.8	84.3	91.8	106.1	121.1
3.07	21.8	25.3	28.4	30.4	32.9	36.4	40.5	44.0	48.0	52.0	60.0	67.0	74.6	78.1	85.6	93.1	107.3	122.4
3.11	---	---	---	---	---	---	19.8	23.7	28.1	32.3	40.7	47.9	55.5	59.1	66.7	74.3	88.6	103.7
3.15	14.7	18.4	21.6	23.7	26.3	29.9	34.0	37.5	41.6	45.6	53.7	60.7	68.3	71.8	79.3	86.8	101.1	116.1
3.18	18.4	22.0	25.1	27.2	29.7	33.3	37.3	40.8	44.9	48.9	56.9	64.0	71.5	75.0	82.5	90.0	104.3	119.3
3.20	---	16.5	19.7	21.9	24.5	28.1	32.2	35.8	39.9	43.9	52.0	59.1	66.6	70.1	77.7	85.2	99.5	114.5
3.20	20.5	24.1	27.2	29.2	31.7	35.3	39.3	42.8	46.8	50.9	58.9	65.9	73.4	76.9	84.4	92.0	106.2	121.2
3.22	21.9	25.5	28.5	30.5	33.0	36.6	40.6	44.1	48.1	52.2	60.2	67.2	74.7	78.2	85.7	93.2	107.5	122.5
3.26	14.8	18.6	21.7	23.8	26.4	30.0	34.1	37.7	41.7	45.8	53.8	60.9	68.4	71.9	79.5	87.0	101.3	116.3
3.27	---	---	---	---	18.4	22.2	26.5	30.2	34.3	38.5	46.6	53.7	61.3	64.9	72.4	80.0	94.3	109.4
3.30	17.8	21.5	24.6	26.6	29.2	32.7	36.8	40.3	44.4	48.4	56.4	63.5	71.0	74.5	82.0	89.5	103.8	118.8
3.36	20.7	24.2	27.3	29.3	31.9	35.4	39.4	43.0	47.0	51.0	59.0	66.1	73.6	77.1	84.6	92.1	106.4	121.4
3.37	14.9	18.7	21.9	24.0	26.6	30.2	34.2	37.8	41.9	45.9	54.0	61.0	68.6	72.1	79.6	87.1	101.4	116.4
0.88	0.90	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.10	1.12	1.15	1.16	1.18	1.20	1.23	1.26	
3.39	22.0	25.6	28.6	30.7	33.2	36.7	40.7	44.3	48.3	52.3	60.3	67.3	74.9	78.4	85.9	93.4	107.7	122.7
3.42	---	16.8	20.0	22.1	24.8	28.4	32.5	36.1	40.2	44.2	52.3	59.4	66.9	70.4	78.0	85.5	99.8	114.8
3.46	18.7	22.3	25.4	27.4	30.0	33.5	37.6	41.1	45.2	49.2	57.2	64.3	71.8	75.3	82.8	90.3	104.6	119.6
3.50	15.0	18.8	22.0	24.1	26.7	30.3	34.4	37.9	42.0	46.0	54.1	61.2	68.7	72.2	79.7	87.3	101.6	116.6
3.53	20.8	24.4	27.4	29.5	32.0	35.5	39.6	43.1	47.1	51.2	59.2	66.2	73.7	77.2	84.8	92.3	106.5	121.5
3.53	12.9	16.9	20.1	22.3	24.9	28.5	32.6	36.2	40.3	44.4	52.5	59.5	67.1	70.6	78.1	85.6	99.9	115.0
3.54	---	---	---	---	18.7	22.6	26.9	30.6	34.7	38.9	47.1	54.2	61.8	65.3	72.9	80.4	94.8	109.8
3.61	18.8	22.4	25.5	27.6	30.1	33.7	37.7	41.3	45.3	49.3	57.4	64.4	71.9	75.5	83.0	90.5	104.8	119.8
3.66	13.0	17.0	20.3	22.4	25.0	28.7	32.8	36.4	40.4	44.5	52.6	59.7	67.2	70.7	78.3	85.8	100.1	115.1
3.71	20.9	24.5	27.6	29.6	32.2	35.7	39.7	43.3	47.3	51.3	59.3	66.4	73.9	77.4	84.9	92.4	106.7	121.7
3.75	---	---	---	16.1	19.0	22.9	27.2	30.8	35.0	39.1	47.3	54.5	62.1	65.6	73.2	80.7	95.0	110.1
3.75	18.2	21.9	25.0	27.0	29.6	33.2	37.2	40.8	44.8	48.8	56.9	63.9	71.4	75.0	82.5	90.0	104.3	119.3
3.78	15.3	19.1	22.3	24.4	27.0	30.6	34.7	38.2	42.3	46.3	54.4	61.5	69.0	72.5	80.0	87.6	101.9	116.9
3.79	18.9	22.6	25.7	27.7	30.3	33.8	37.9	41.4	45.5	49.5	57.5	64.6	72.1	75.6	83.1	90.6	104.9	119.9
3.80	13.1	17.1	20.4	22.5	25.2	28.8	32.9	36.5	40.6	44.6	52.7	59.8	67.4	70.9	78.4	85.9	100.2	115.3
0.85	0.88	0.92	0.93	0.95	0.97	0.99	1.00	1.02	1.04	1.08	1.10	1.13	1.14	1.16	1.18	1.22	1.25	

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC BX CLASSIC COG STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.		3500 RPM Driver			1750 RPM Driver			1160 RPM Driver			Belt Size/Center Distance																	
	Driver	Driven	RPM	HP Per Belt		RPM	HP Per Belt		RPM	HP Per Belt		B35 BX35	B38 BX38	B42 BX42	B46 BX46	B51 BX51	B55 BX55	B60 BX60	B64 BX64										
				B	BX		B	BX		B	BX																		
3.91	7.40	30.00	895	---	---	447	13.11	13.98	296	9.81	10.44	---	---	---	---	---	---	---	---										
3.93	3.80	16.00	890	5.03	10.50	445	3.99	6.81	295	3.07	5.01	---	---	---	---	11.2	14.0	16.2	---										
3.98	3.60	15.40	879	4.15	9.83	440	3.43	6.36	291	2.68	4.68	---	---	---	---	9.7	12.0	14.8	17.0										
3.99	6.00	25.00	878	12.81	16.16	439	9.79	11.41	291	7.29	8.43	---	---	---	---	---	---	---	---										
4.10	4.60	20.00	853	8.28	12.94	426	6.18	8.56	283	4.64	6.29	---	---	---	---	---	---	---	---										
4.11	4.20	18.40	851	6.71	11.77	425	5.09	7.70	282	3.86	5.65	---	---	---	---	---	---	---	13.3										
4.13	3.60	16.00	847	4.15	9.83	424	3.43	6.36	281	2.68	4.68	---	---	---	---	11.3	14.2	16.3	---										
4.19	3.40	15.40	835	3.24	9.13	418	2.86	5.90	277	2.27	4.35	---	---	---	---	9.8	12.2	14.9	17.1										
4.24	6.80	30.00	825	14.63	17.35	413	11.72	12.91	274	8.74	9.60	---	---	---	---	---	---	---	---										
4.26	5.60	25.00	823	11.68	15.39	411	8.79	10.62	273	6.54	7.83	---	---	---	---	---	---	---	---										
4.28	8.60	38.00	818	---	---	409	15.71	15.95	271	11.87	12.07	---	---	---	---	---	---	---	---										
4.30	4.00	18.40	813	5.89	11.15	407	4.55	7.26	270	3.47	5.33	---	---	---	---	---	---	---	13.4										
4.35	3.40	16.00	804	3.25	9.14	402	2.86	5.91	267	2.28	4.35	---	---	---	---	11.4	14.3	16.5	---										
4.40	5.40	25.00	795	11.07	14.96	397	8.28	10.22	263	6.17	7.53	---	---	---	---	---	---	---	---										
4.46	4.20	20.00	784	6.72	11.77	392	5.10	7.70	260	3.86	5.66	---	---	---	---	---	---	---	---										
4.49	6.40	30.00	779	13.80	16.82	390	10.77	12.17	258	8.02	9.02	---	---	---	---	---	---	---	---										
4.51	3.80	18.40	776	5.04	10.50	388	3.99	6.82	257	3.08	5.01	---	---	---	---	---	---	---	13.5										
4.56	5.20	25.00	767	10.42	14.50	384	7.76	9.82	254	5.79	7.22	---	---	---	---	---	---	---	---										
4.67	4.00	20.00	750	5.89	11.15	375	4.55	7.26	248	3.47	5.33	---	---	---	---	---	---	---	---										
4.73	5.00	25.00	740	9.74	14.01	370	7.24	9.41	245	5.41	6.92	---	---	---	---	---	---	---	---										
4.74	3.60	18.40	739	4.16	9.83	369	3.43	6.36	245	2.68	4.68	---	---	---	---	---	---	11.2	13.6										
4.77	6.00	30.00	733	12.81	16.17	367	9.79	11.41	243	7.29	8.43	---	---	---	---	---	---	---	---										
4.89	3.80	20.00	715	5.04	10.51	358	3.99	6.82	237	3.08	5.01	---	---	---	---	---	---	---	---										
4.94	7.40	38.00	708	---	---	354	13.11	13.98	235	9.81	10.45	---	---	---	---	---	---	---	---										
4.99	3.40	18.40	701	3.25	9.14	351	2.87	5.91	232	2.28	4.35	---	---	---	---	---	---	11.3	13.7										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	0.75	0.77	0.80	0.82	---	---	---	---	---	---	---	---	---
5.09	5.60	30.00	687	11.69	15.39	344	8.79	10.63	228	6.55	7.83	---	---	---	---	---	---	---	---										
5.11	4.60	25.00	685	8.29	12.95	342	6.18	8.57	227	4.64	6.29	---	---	---	---	---	---	---	---										
5.14	3.60	20.00	681	4.16	9.84	340	3.43	6.37	226	2.68	4.68	---	---	---	---	---	---	---	---										
5.27	5.40	30.00	664	11.07	14.96	332	8.28	10.23	220	6.17	7.53	---	---	---	---	---	---	---	---										
5.36	6.80	38.00	653	14.64	17.35	327	11.73	12.91	217	8.75	9.60	---	---	---	---	---	---	---	---										
5.41	3.40	20.00	646	3.25	9.14	323	2.87	5.91	214	2.28	4.35	---	---	---	---	---	---	---	---										
5.46	5.20	30.00	641	10.42	14.50	320	7.76	9.82	212	5.79	7.23	---	---	---	---	---	---	---	---										
5.56	4.20	25.00	629	6.72	11.78	315	5.10	7.70	209	3.87	5.66	---	---	---	---	---	---	---	---										
5.66	5.00	30.00	618	9.75	14.01	309	7.24	9.41	205	5.41	6.92	---	---	---	---	---	---	---	---										
5.67	6.40	38.00	617	13.80	16.83	308	10.77	12.18	204	8.02	9.02	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5.82	4.00	25.00	602	5.90	11.16	301	4.55	7.26	199	3.47	5.34	---	---	---	---	---	---	---	---										
6.03	6.00	38.00	580	12.82	16.18	290	9.79	11.41	192	7.29	8.43	---	---	---	---	---	---	---	---										
6.10	3.80	25.00	574	5.04	10.51	287	3.99	6.82	190	3.08	5.01	---	---	---	---	---	---	---	---										
6.12	4.60	30.00	572	8.30	12.95	286	6.18	8.57	190	4.65	6.29	---	---	---	---	---	---	---	---										
6.40	3.60	25.00	547	4.16	9.84	273	3.43	6.37	181	2.68	4.68	---	---	---	---	---	---	---	---										
6.44	5.60	38.00	544	11.69	15.40	272	8.79	10.63	180	6.55	7.84	---	---	---	---	---	---	---	---										
6.66	4.20	30.00	526	6.73	11.78	263	5.10	7.71	174	3.87	5.66	---	---	---	---	---	---	---	---										
6.74	3.40	25.00	519	3.26	9.15	259	2.87	5.91	172	2.28	4.35	---	---	---	---	---	---	---	---										
6.90	5.20	38.00	507	10.43	14.50	254	7.77	9.82	168	5.79	7.23	---	---	---	---	---	---	---	---										
6.96	4.00	30.00	503	5.90	11.16	251	4.55	7.27	167	3.47	5.34	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.16	5.00	38.00	489	9.75	14.01	245	7.24	9.41	162	5.41	6.92	---	---	---	---	---	---	---	---										
7.30	3.80	30.00	480	5.05	10.51	240	4.00	6.82	159	3.08	5.01	---	---	---	---	---	---	---	---										
7.67	3.60	30.00	457	4.17	9.84	228	3.44	6.37	151	2.68	4.68	---	---	---	---	---	---	---	---										
7.73	4.60	38.00	453	8.30	12.95	226	6.18	8.57	150	4.65	6.30	---	---	---	---	---	---	---	---										
8.07	3.40	30.00	433	3.26	9.15	217	2.87	5.91	144	2.28	4.35	---	---	---	---	---	---	---	---										
8.41	4.20	38.00	416	6.73	11.79	208	5.10	7.71	138	3.87	5.66	---	---	---	---	---	---	---	---										
8.80	4.00	38.00	398	5.90	11.16	199	4.55	7.27	132	3.48	5.34	---	---	---	---	---	---	---	---										
9.22	3.80	38.00	380	5.05	10.52	190	4.00	6.82	126	3.08	5.01	---	---	---	---	---	---	---	---										
9.69	3.60	38.00	361	4.17	9.85	181	3.44	6.37	120	2.68	4.68	---	---	---	---	---	---	---	---										
10.20	3.40	38.00	343	3.26	9.15	172	2.87	5.91	114	2.28	4.35	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B S-L CLASSIC

BX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	B68 BX68	B75 BX75	B81 BX81	B85 BX85	B90 BX90	B97 BX97	B105 BX105	B112 BX112	B120 BX120	B128 BX128	B144 BX144	B158 BX158	B173 BX173	B180 BX180	B195 BX195	B210 BX210	B240 BX240	B270 BX270	
3.91	---	---	---	---	---	---	21.0	25.0	29.4	33.6	42.0	49.2	56.9	60.5	68.1	75.7	90.1	105.2	
3.93	18.3	22.0	25.1	27.2	29.7	33.3	37.4	40.9	44.9	49.0	57.0	64.1	71.6	75.1	82.6	90.2	104.4	119.5	
3.98	19.1	22.7	25.8	27.9	30.4	34.0	38.0	41.6	45.6	49.6	57.7	64.7	72.2	75.8	83.3	90.8	105.1	120.1	
3.99	---	---	---	16.3	19.2	23.1	27.4	31.1	35.3	39.4	47.6	54.7	62.3	65.9	73.5	81.0	95.3	110.4	
4.10	13.4	17.4	20.7	22.8	25.4	29.1	33.2	36.8	40.9	44.9	53.0	60.1	67.7	71.2	78.7	86.2	100.5	115.6	
4.11	15.5	19.4	22.5	24.6	27.2	30.8	34.9	38.5	42.6	46.6	54.7	61.8	69.3	72.8	80.3	87.9	102.2	117.2	
4.13	18.5	22.1	25.3	27.3	29.9	33.4	37.5	41.0	45.1	49.1	57.2	64.2	71.7	75.3	82.8	90.3	104.6	119.6	
4.19	19.2	22.9	25.9	28.0	30.6	34.1	38.2	41.7	45.7	49.8	57.8	64.9	72.4	75.9	83.4	90.9	105.2	120.2	
4.24	---	---	---	---	---	---	21.4	25.4	29.8	34.0	42.4	49.7	57.3	60.9	68.5	76.1	90.5	105.6	
4.26	---	---	---	16.5	19.5	23.4	27.7	31.4	35.6	39.7	47.9	55.0	62.6	66.2	73.7	81.3	95.6	110.7	
4.28	---	---	---	---	---	---	---	---	---	23.8	33.0	40.7	48.6	52.3	60.0	67.7	82.3	97.5	
4.30	15.7	19.5	22.7	24.8	27.4	31.0	35.1	38.6	42.7	46.8	54.8	61.9	69.4	73.0	80.5	88.0	102.3	117.3	
4.35	18.6	22.3	25.4	27.4	30.0	33.6	37.6	41.2	45.2	49.3	57.3	64.4	71.9	75.4	82.9	90.5	104.7	119.8	
4.40	---	---	---	16.7	19.6	23.5	27.8	31.5	35.7	39.8	48.0	55.2	62.8	66.3	73.9	81.4	95.8	110.9	
4.46	13.6	17.6	20.9	23.0	25.7	29.3	33.5	37.1	41.1	45.2	53.3	60.4	67.9	71.5	79.0	86.5	100.8	115.9	
4.49	---	---	---	---	---	---	21.6	25.6	30.0	34.3	42.7	49.9	57.6	61.2	68.8	76.4	90.8	105.9	
4.51	15.8	19.6	22.8	24.9	27.5	31.1	35.2	38.8	42.9	46.9	55.0	62.0	69.6	73.1	80.6	88.2	102.5	117.5	
4.56	---	---	---	16.8	19.7	23.6	27.9	31.6	35.8	40.0	48.2	55.3	62.9	66.5	74.0	81.6	95.9	111.0	
4.67	13.7	17.8	21.0	23.2	25.8	29.5	33.6	37.2	41.3	45.4	53.5	60.5	68.1	71.6	79.2	86.7	101.0	116.0	
4.73	---	---	---	16.9	19.8	23.7	28.1	31.8	36.0	40.1	48.3	55.4	63.1	66.6	74.2	81.7	96.1	111.2	
4.74	15.9	19.7	22.9	25.0	27.6	31.3	35.4	38.9	43.0	47.0	55.1	62.2	69.7	73.3	80.8	88.3	102.6	117.6	
4.77	---	---	---	---	---	---	21.8	25.9	30.3	34.6	43.0	50.2	57.9	61.5	69.1	76.7	91.1	106.2	
4.89	13.8	17.9	21.2	23.3	26.0	29.6	33.7	37.3	41.4	45.5	53.6	60.7	68.2	71.8	79.3	86.8	101.1	116.2	
4.94	---	---	---	---	---	---	---	---	---	24.5	33.8	41.4	49.4	53.1	60.8	68.6	83.1	98.3	
4.99	16.0	19.9	23.1	25.2	27.8	31.4	35.5	39.1	43.1	47.2	55.3	62.3	69.9	73.4	80.9	88.5	102.8	117.8	
	0.85	0.88	0.89	0.90	0.92	0.95	0.98	1.00	1.02	1.04	1.08	1.10	1.13	1.14	1.16	1.18	1.22	1.25	
5.09	---	---	---	---	---	---	22.1	26.1	30.5	34.8	43.2	50.5	58.2	61.7	69.4	77.0	91.4	106.5	
5.11	14.0	18.0	21.3	17.1	20.1	24.0	28.3	32.0	36.2	40.4	48.6	55.7	63.3	66.9	74.5	82.0	96.4	111.4	
5.14	---	---	---	23.4	26.1	29.7	33.9	37.5	41.6	45.6	53.7	60.8	68.4	71.9	79.5	87.0	101.3	116.3	
5.27	---	---	---	---	---	---	22.2	26.2	30.6	34.9	43.4	50.6	58.3	61.9	69.5	77.1	91.5	106.7	
5.36	---	---	---	---	---	---	---	---	---	24.8	34.2	41.8	49.8	53.5	61.2	69.0	83.5	98.7	
5.41	14.1	18.1	21.4	23.6	26.2	29.9	34.0	37.6	41.7	45.8	53.9	61.0	68.5	72.1	79.6	87.1	101.4	116.5	
5.46	---	---	---	---	---	---	22.3	26.4	30.8	35.1	43.5	50.8	58.5	62.0	69.7	77.3	91.7	106.8	
5.56	---	---	14.8	17.4	20.3	24.2	28.6	32.3	36.5	40.6	48.9	56.0	63.6	67.2	74.8	82.3	96.7	111.7	
5.66	---	---	---	---	---	---	22.4	26.5	30.9	35.2	43.6	50.9	58.6	62.2	69.8	77.4	91.8	106.9	
5.67	---	---	---	---	---	---	---	---	---	25.1	34.4	42.1	50.1	53.7	61.5	69.2	83.8	99.0	
	0.78	0.81	0.84	0.88	0.90	0.93	0.96	0.99	1.01	1.03	1.07	1.10	1.12	1.14	1.16	1.18	1.22	1.25	
5.82	---	---	14.9	17.5	20.4	24.4	28.7	32.4	36.6	40.8	49.0	56.2	63.8	67.3	74.9	82.5	96.8	111.9	
6.03	---	---	---	---	---	---	---	---	---	25.3	34.7	42.3	50.3	54.0	61.8	69.5	84.1	99.3	
6.10	---	---	15.1	17.6	20.6	24.5	28.8	32.6	36.8	40.9	49.1	56.3	63.9	67.5	75.0	82.6	97.0	112.0	
6.12	---	---	---	---	---	---	17.7	22.7	26.7	31.2	35.5	43.9	51.2	58.9	62.4	70.1	77.7	92.1	107.2
6.40	---	---	15.2	17.7	20.7	24.6	29.0	32.7	36.9	41.1	49.3	56.4	64.1	67.6	75.2	82.8	97.1	112.2	
6.44	---	---	---	---	---	---	---	---	---	25.5	34.9	42.6	50.6	54.3	62.1	69.8	84.4	99.6	
6.66	---	---	---	---	---	17.9	22.9	27.0	31.4	35.7	44.2	51.4	59.1	62.7	70.4	78.0	92.4	107.5	
6.74	---	---	15.3	17.8	20.8	24.7	29.1	32.8	37.0	41.2	49.4	56.6	64.2	67.7	75.3	82.9	97.3	112.3	
6.90	---	---	---	---	---	---	---	---	---	25.8	35.2	42.8	50.8	54.5	62.3	70.1	84.6	99.9	
6.96	---	---	---	---	---	18.0	23.0	27.1	31.5	35.9	44.3	51.6	59.3	62.9	70.5	78.1	92.5	107.7	
	---	---	0.70	0.75	0.81	0.87	0.91	0.95	0.98	1.00	1.05	1.08	1.11	1.12	1.15	1.17	1.21	1.24	
7.16	---	---	---	---	---	---	---	---	---	25.9	35.3	43.0	51.0	54.7	62.5	70.2	84.8	100.0	
7.30	---	---	---	---	---	18.1	23.2	27.2	31.7	36.0	44.4	51.7	59.4	63.0	70.7	78.3	92.7	107.8	
7.67	---	---	---	---	---	18.3	23.3	27.3	31.8	36.1	44.6	51.8	59.6	63.1	70.8	78.4	92.8	108.0	
7.73	---	---	---	---	---	---	---	---	---	26.1	35.5	43.2	51.2	54.9	62.7	70.5	85.1	100.3	
8.07	---	---	---	---	---	18.4	23.4	27.5	31.9	36.2	44.7	52.0	59.7	63.3	70.9	78.6	93.0	108.1	
8.41	---	---	---	---	---	---	---	---	---	26.4	35.8	43.5	51.5	55.2	63.0	70.8	85.3	100.6	
8.80	---	---	---	---	---	---	---	---	---	21.1	26.5	35.9	43.6	51.6	63.1	70.9	85.5	100.7	
9.22	---	---	---	---	---	---	---	---	---	21.2	26.6	36.0	43.7	51.8	63.3	71.0	85.6	100.9	
9.69	---	---	---	---	---	---	---	---	---	21.3	26.7	36.2	43.9	51.9	63.4	71.2	85.8	101.0	
10.20	---	---	---	---	---	---	---	---	---	21.4	26.8	36.3	44.0	52.0	63.5	71.3	85.9	101.2	
	---	---	---	---	---	0.77	0.82	0.88	0.92	0.96	1.02	1.05	1.09	1.10	1.13	1.15	1.19	1.23	

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

C

S-L CLASSIC

CX

CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		1750 RPM Driver				1160 RPM Driver				870 RPM Driver				Belt Size/Center Distance									
	Datum Diam.		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		C51 CX51	C60 CX60	C68 CX68	C75 CX75	C81 CX81	C85 CX85	C90 CX90	C96 CX96	C105 CX105				
	Driver	Driven		C	CX		C	CX		C	CX													
1.00	7.0	7.0	1750	12.09	18.97	1160	9.69	14.22	870	7.98	11.39	16.0	20.5	24.5	28.0	31.0	33.0	35.5	38.5	43.0				
1.00	7.5	7.5	1750	14.00	20.59	1160	11.17	15.48	870	9.16	12.40	15.2	19.7	23.7	27.2	30.2	32.2	34.7	37.7	42.2				
1.00	8.0	8.0	1750	15.84	22.15	1160	12.62	16.71	870	10.33	13.40	14.4	18.9	22.9	26.4	29.4	31.4	33.9	36.9	41.4				
1.00	8.5	8.5	1750	17.62	23.65	1160	14.05	17.93	870	11.48	14.39	13.6	18.1	22.1	25.6	28.6	30.6	33.1	36.1	40.6				
1.00	9.0	9.0	1750	19.32	25.09	1160	15.45	19.11	870	12.62	15.36	12.8	17.3	21.3	24.8	27.8	29.8	32.3	35.3	39.8				
1.00	9.5	9.5	1750	20.94	26.47	1160	16.82	20.28	870	13.74	16.32	12.0	16.5	20.5	24.0	27.0	29.0	31.5	34.5	39.0				
1.00	10.0	10.0	1750	22.49	27.78	1160	18.17	21.42	870	14.85	17.26	11.3	15.8	19.7	23.3	26.3	28.3	30.8	33.8	38.3				
1.00	10.5	10.5	1750	23.96	29.02	1160	19.49	22.54	870	15.95	18.20	---	15.0	19.0	22.5	25.5	27.5	30.0	33.0	37.5				
1.00	11.0	11.0	1750	25.35	30.20	1160	20.78	23.63	870	17.03	19.12	---	14.2	18.2	21.7	24.7	26.7	29.2	32.2	36.7				
1.00	12.0	12.0	1750	27.86	32.34	1160	23.27	25.74	870	19.15	20.92	---	12.6	16.6	20.1	23.1	25.1	27.6	30.6	35.1				
1.00	13.0	13.0	1750	30.00	34.18	1160	25.64	27.75	870	21.21	22.66	---	---	15.0	18.5	21.5	23.5	26.0	29.0	33.5				
1.00	14.0	14.0	1750	31.76	35.70	1160	27.88	29.64	870	23.20	24.36	---	---	17.0	20.0	22.0	24.5	27.5	32.0	38.0				
1.00	16.0	16.0	1750	---	---	---	1160	31.96	33.10	870	27.00	27.57	---	---	---	16.8	18.8	21.3	24.3	28.8	35.0			
1.05	10.5	11.0	1673	24.35	29.41	1109	19.74	22.79	832	16.14	18.39	---	14.6	18.6	22.1	25.1	27.1	29.6	32.6	37.1				
1.05	10.0	10.5	1670	22.89	28.18	1107	18.44	21.69	830	15.05	17.45	10.9	15.4	19.4	22.9	25.9	27.9	30.4	33.4	37.9				
1.05	9.5	10.0	1666	21.36	26.88	1104	17.10	20.56	828	13.95	16.53	11.6	16.1	20.1	23.6	26.6	28.6	31.1	34.1	38.6				
1.05	9.0	9.5	1662	19.75	25.53	1101	15.74	19.40	826	12.83	15.58	12.4	16.9	20.9	24.4	27.4	29.4	31.9	34.9	39.4				
1.06	8.5	9.0	1657	18.07	24.11	1098	14.36	18.23	824	11.71	14.61	13.2	17.7	21.7	25.2	28.2	30.2	32.7	35.7	40.2				
1.06	8.0	8.5	1652	16.32	22.63	1095	12.94	17.03	821	10.57	13.64	14.0	18.5	22.5	26.0	29.0	31.0	33.5	36.5	41.0				
1.06	7.5	8.0	1646	14.51	21.10	1091	11.51	15.81	818	9.41	12.65	14.8	19.3	23.3	26.8	29.8	31.8	34.3	37.3	41.8				
1.07	7.0	7.5	1639	12.62	19.51	1087	10.05	14.57	815	8.24	11.65	15.6	20.1	24.1	27.6	30.6	32.6	35.1	38.1	42.6				
1.07	13.0	14.0	1628	30.50	34.76	1079	26.03	28.13	810	21.50	22.95	---	---	14.2	17.7	20.7	22.7	25.3	28.3	32.8				
1.08	12.0	13.0	1619	28.48	32.96	1073	23.68	26.15	805	19.46	21.23	---	---	15.8	19.3	22.3	24.3	26.8	29.8	34.3				
1.09	11.0	12.0	1609	26.01	30.86	1066	21.22	24.07	800	17.36	19.45	---	13.4	17.4	20.9	23.9	25.9	28.4	31.4	35.9				
1.10	10.0	11.0	1596	23.21	28.49	1058	18.65	21.90	794	15.21	17.62	---	15.0	19.0	22.5	25.5	27.5	30.0	33.0	37.5				
ARC-LENGTH CORRECTION FACTOR →													0.77	0.81	0.83	0.85	0.87	0.88	0.89	0.91	0.93			
1.10	9.5	10.5	1589	21.69	27.21	1054	17.32	20.77	790	14.11	16.69	11.2	15.7	19.7	23.2	26.2	28.2	30.7	33.7	38.2				
1.11	9.0	10.0	1582	20.09	25.86	1048	15.96	19.63	786	13.00	15.74	12.0	16.5	20.5	24.0	27.0	29.0	31.5	34.5	39.0				
1.11	8.5	9.5	1573	18.42	24.46	1043	14.58	18.46	782	11.88	14.79	12.8	17.3	21.3	24.8	27.8	29.8	32.3	35.3	39.8				
1.12	8.0	9.0	1564	16.66	22.99	1037	13.18	17.27	777	10.74	13.82	13.6	18.1	22.1	25.6	28.6	30.6	33.1	36.1	40.6				
1.12	16.0	18.0	1560	---	---	1034	32.53	33.67	775	27.43	28.00	---	---	---	---	17.2	19.7	22.7	27.2	32.7				
1.13	7.5	8.5	1553	14.86	21.47	1030	11.75	16.06	772	9.59	12.84	14.4	18.9	22.9	26.4	29.4	31.4	33.9	36.9	41.4				
1.14	7.0	8.0	1542	13.01	19.89	1022	10.30	14.83	766	8.43	11.84	15.2	19.7	23.7	27.2	30.2	32.2	34.7	37.7	42.2				
1.14	10.5	12.0	1538	24.89	29.96	1020	20.11	23.16	765	16.41	18.66	---	13.8	17.8	21.3	24.3	26.3	28.8	31.8	36.3				
1.14	14.0	16.0	1537	32.70	36.64	1019	28.51	30.26	764	23.67	24.82	---	---	15.4	18.4	20.4	22.9	25.9	30.4	35.9				
1.15	9.5	11.0	1520	21.94	27.46	1017	17.49	20.94	756	14.24	16.81	10.8	15.3	19.3	22.8	25.8	27.8	30.3	33.3	37.9				
1.16	9.0	10.5	1509	20.35	26.12	1000	16.13	19.80	750	13.13	15.87	11.6	16.1	20.1	23.6	26.6	28.6	31.1	34.1	38.6				
1.16	12.0	14.0	1507	28.90	33.38	999	23.96	26.43	749	19.66	21.43	---	---	15.0	18.5	21.5	23.5	26.0	29.0	33.5				
1.17	8.5	10.0	1498	18.68	24.72	993	14.76	18.63	745	12.01	14.92	12.4	16.9	20.9	24.4	27.4	29.4	31.9	34.9	39.4				
1.18	11.0	13.0	1489	26.44	31.30	987	21.51	24.36	740	17.57	19.66	---	12.6	16.6	20.1	23.1	25.1	27.6	30.6	35.1				
1.18	8.0	9.5	1486	16.95	23.26	984	13.36	17.45	738	10.88	13.95	13.2	17.7	21.7	25.2	28.2	30.2	32.7	35.7	40.2				
1.19	7.5	9.0	1471	15.15	21.74	975	11.93	16.24	731	9.73	12.97	14.0	18.5	22.5	26.0	29.0	31.0	33.5	36.5	41.0				
1.19	10.0	12.0	1468	23.65	28.94	973	18.94	22.19	730	15.43	17.84	---	14.1	18.2	21.7	24.7	26.7	29.2	32.2	36.7				
1.20	7.0	8.5	1455	13.28	20.17	964	10.49	15.01	723	8.57	11.98	14.8	19.3	23.3	26.8	29.8	31.8	34.3	37.3	41.8				
1.21	9.0	11.0	1443	20.65	26.32	956	16.27	19.93	717	13.23	15.97	11.2	15.7	19.7	23.2	26.2	28.2	30.7	33.7	38.2				
1.22	13.0	16.0	1430	31.27	35.45	948	26.48	28.58	711	21.84	23.29	---	---	16.1	19.1	21.1	23.6	26.6	31.1	36.6				
1.22	8.5	10.5	1429	18.89	24.92	947	14.89	18.77	710	11.14	15.02	12.0	16.5	20.5	24.0	27.0	29.0	31.5	34.5	39.0				
1.23	10.5	13.0	1424	25.24	30.31	944	20.34	23.39	708	16.59	18.84	---	12.9	17.0	20.5	23.5	25.5	28.0	31.0	35.5				
1.24	8.0	10.0	1413	17.15	23.48	937	13.49	17.58	703	10.98	14.05	12.8	17.3	21.3	24.8	27.8	29.8	32.3	35.3	39.8				
1.24	16.0	20.0	1407	---	---	933	32.84	33.98	699	27.66	28.23	---	---	---	---	---	---	18.1	21.1	25.6				
1.25	9.5	12.0	1397	22.29	27.82	926	17.72	21.18	695	14.41	16.99	---	14.5	18.5	22.0	25.0	27.0	29.5	32.5	37.1				
1.25	7.5	9.5	1396	15.35	21.94	926	12.07	16.37	694	9.83	13.07	13.6	18.1	22.1	25.6	28.6	30.6	33.1	36.1	40.6				
1.26	11.0	14.0	1385	26.73	31.58	918	21.69	24.55	689	17.72	19.80	---	---	15.8	19.3	22.3	24.3	26.8	29.8	34.3				
1.27	7.0	9.0	1378	13.48	20.37	913	10.62	15.14	685	8.67	12.08	14.4	18.9	22.9	26.4	29.4	31.4	33.9	36.9	41.4				
1.28	14.0	18.0	1370	33.18	37.12	908	28.82	30.58	681	23.91	25.06	---	---	---	16.7	18.7	21.2	24.2	28.8	34.3				
1.28	8.5	11.0	1366	19.04	25.07	906	14.99	18.87	679	12.19	15.09	11.6	16.1	20.1	23.6	26.6	28.6	31.1	34.1	38.6				
1.29	10.0	13.0	1358	23.93	29.22	900	19.13	22.38	675	15.57	17.98	---	13.3	17.3	20.8	23.8	25.9	28.4	31.4	35.9				
1.30	8.0	10.5	1349	17.31	23.61	894	13.59	17.68	670	11.05	14.13	12.4	16.9	20.9	24.4	27.4	29.4	31.9	34.9	39.4				
1.32	7.5	10.0	1329	15.50	22.09	881	12.17	16.47	661	9.91	13.15	13.2	17.7	21.7	25.2	28.2	30.2	32.7	35.7	40.2				
1.32	9.0	12.0	1327	20.83	26.60	879	16.45	20.12	660	13.37	16.11	---	14.9	18										



SELECTION



TORQUE-TAMER

C S-L CLASSIC

CX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	C112 CX112	C120 CX120	C128 CX128	C136 CX136	C144 CX144	C158 CX158	C162 CX162	C173 CX173	C180 CX180	C195 CX195	C210 CX210	C240 CX240	C270 CX270	C300 CX300	C330 CX330	C360 CX360	C390 CX390	C420 CX420
1.00	46.5	50.5	54.5	58.5	62.5	69.5	71.5	77.0	80.5	88.0	95.5	109.5	124.5	139.5	154.5	169.5	184.5	199.5
1.00	45.7	49.7	53.7	57.7	61.7	68.7	70.7	76.2	79.7	87.2	94.7	108.7	123.7	138.7	153.7	168.7	183.7	198.7
1.00	44.9	48.9	52.9	56.9	60.9	67.9	69.9	75.4	78.9	86.4	93.9	107.9	122.9	137.9	152.9	167.9	182.9	197.9
1.00	44.1	48.1	52.1	56.1	60.1	67.1	69.1	74.6	78.1	85.6	93.1	107.1	122.1	137.1	152.1	167.1	182.1	197.1
1.00	43.3	47.3	51.3	55.3	59.3	66.3	68.3	73.8	77.3	84.8	92.3	106.3	121.3	136.3	151.3	166.3	181.3	196.3
1.00	42.5	46.5	50.5	54.5	58.5	65.5	67.5	73.0	76.5	84.0	91.5	105.5	120.5	135.5	150.5	165.5	180.5	195.5
1.00	41.8	45.8	49.7	53.7	57.7	64.8	66.8	72.3	75.8	83.3	90.8	104.8	119.7	134.8	149.7	164.8	179.8	194.7
1.00	41.0	45.0	49.0	53.0	57.0	64.0	66.0	71.5	75.0	82.5	90.0	104.0	119.0	134.0	149.0	164.0	179.0	194.0
1.00	40.2	44.2	48.2	52.2	56.2	63.2	65.2	70.7	74.2	81.7	89.2	103.2	118.2	133.2	148.2	163.2	178.2	193.2
1.00	38.6	42.6	46.6	50.6	54.6	61.6	63.6	69.1	72.6	80.1	87.6	101.6	116.6	131.6	146.6	161.6	176.6	191.6
1.00	37.0	41.0	45.0	49.0	53.0	60.0	62.0	67.5	71.0	78.5	86.0	100.0	115.0	130.0	145.0	160.0	175.0	190.0
1.00	35.5	39.5	43.5	47.5	51.5	58.5	60.5	66.0	69.5	77.0	84.5	98.5	113.5	128.5	143.5	158.5	173.5	188.5
1.00	32.3	35.3	40.3	44.3	48.3	55.3	57.3	62.8	66.3	73.8	81.3	95.3	110.3	125.3	140.3	155.3	170.3	185.3
1.05	40.6	44.6	48.6	52.6	56.6	63.6	65.6	71.1	74.6	82.1	89.6	103.6	118.6	133.6	148.6	163.6	178.6	193.6
1.05	41.4	45.4	49.4	53.4	57.4	64.4	66.4	71.9	75.4	82.9	90.4	104.4	119.4	134.4	149.4	164.4	179.4	194.4
1.05	42.1	46.1	50.1	54.1	58.1	65.1	67.1	72.6	76.1	83.6	91.1	105.1	120.1	135.1	150.1	165.1	180.1	195.1
1.05	42.9	46.9	50.9	54.9	58.9	65.9	67.9	73.4	76.9	84.4	91.9	105.9	120.9	135.9	150.9	165.9	180.9	195.9
1.06	43.7	47.7	51.7	55.7	59.7	66.7	68.7	74.2	77.7	85.2	92.7	106.7	121.7	136.7	151.7	166.7	181.7	196.7
1.06	44.5	48.5	52.5	56.5	60.5	67.5	69.5	75.0	78.5	86.0	93.5	107.5	122.5	137.5	152.5	167.5	182.5	197.5
1.06	45.3	49.3	53.3	57.3	61.3	68.3	70.3	75.8	79.3	86.8	94.3	108.3	123.3	138.3	153.3	168.3	183.3	198.3
1.07	48.1	50.1	54.1	58.1	62.1	69.1	71.1	76.6	80.1	87.6	95.1	109.1	124.1	139.1	154.1	169.1	184.1	199.1
1.07	36.3	40.3	44.3	48.3	52.3	59.3	61.3	66.8	70.3	77.8	85.3	99.3	114.3	129.3	144.3	159.3	174.3	189.3
1.08	37.8	41.8	45.8	49.8	53.8	60.8	62.8	68.3	71.8	79.3	86.8	100.8	115.8	130.8	145.8	160.8	175.8	190.8
1.09	39.4	43.4	47.4	51.4	55.4	62.4	64.4	69.9	73.4	80.9	88.4	102.4	117.4	132.4	147.4	162.4	177.4	192.4
1.10	41.0	45.0	49.0	53.0	57.0	64.0	66.0	71.5	75.0	82.5	90.0	104.0	119.0	134.0	149.0	164.0	179.0	194.0
0.94	0.96	0.97	0.99	1.00	1.02	1.03	1.04	1.05	1.07	1.08	1.11	1.14	1.16	1.18	1.20	1.22	1.24	1.24
1.10	41.7	45.7	49.7	53.7	57.7	64.7	66.7	72.2	75.7	83.2	90.7	104.7	119.7	134.7	149.7	164.7	179.7	194.7
1.11	42.5	46.5	50.5	54.5	58.5	65.5	67.5	73.0	76.5	84.0	91.5	105.5	120.5	135.5	150.5	165.5	180.5	195.5
1.11	43.3	47.3	51.3	55.3	59.3	66.3	68.3	73.8	77.3	84.8	92.3	106.3	121.3	136.3	151.3	166.3	181.3	196.3
1.12	44.1	48.1	52.1	56.1	60.1	67.1	69.1	74.6	78.1	85.6	93.1	107.1	122.1	137.1	152.1	167.1	182.1	197.1
1.12	30.7	34.7	38.7	42.7	46.7	53.8	55.8	61.3	64.8	72.3	79.8	93.8	108.8	123.8	138.8	153.8	168.8	183.8
1.13	44.9	48.9	52.9	56.9	60.9	67.9	69.9	75.4	78.9	86.4	93.9	107.9	122.9	137.9	152.9	167.9	182.9	197.9
1.14	45.7	49.7	53.7	57.7	61.7	68.7	70.7	76.2	79.7	87.2	94.7	108.7	123.7	138.7	153.7	168.7	183.7	198.7
1.14	39.8	43.8	47.8	51.8	55.8	62.8	64.8	70.3	73.8	81.3	88.8	102.8	117.8	132.8	147.8	162.8	177.8	192.8
1.14	33.9	37.9	41.9	45.9	49.9	56.9	58.9	64.4	67.9	75.4	82.9	96.9	111.9	126.9	141.9	156.9	171.9	186.9
1.15	41.4	45.4	49.4	53.4	57.4	64.4	66.4	71.9	75.4	82.9	90.4	104.4	119.4	134.4	149.4	164.4	179.4	194.4
1.16	42.1	46.1	50.1	54.1	58.1	65.1	67.1	72.6	76.1	83.6	91.1	105.1	120.1	135.1	150.1	165.1	180.1	195.1
1.16	37.0	41.0	45.0	49.0	53.0	60.0	62.0	67.5	71.0	78.5	86.0	100.0	115.0	130.0	145.0	160.0	175.0	190.0
1.17	42.9	46.9	50.9	54.9	58.9	65.9	67.9	73.4	76.9	84.4	91.9	105.9	120.9	135.9	150.9	165.9	180.9	195.9
1.18	38.6	42.6	46.6	50.6	54.6	61.6	63.6	69.1	72.6	80.1	87.6	101.6	116.6	131.6	146.6	161.6	176.6	191.6
1.18	43.7	47.7	51.7	55.7	59.7	66.7	68.7	74.2	77.7	85.2	92.7	106.7	121.7	136.7	151.7	166.7	181.7	196.7
1.19	44.5	48.5	52.5	56.5	60.5	67.5	69.5	75.0	78.5	86.0	93.5	107.5	122.5	137.5	152.5	167.5	182.5	197.5
1.19	40.2	44.2	48.2	52.2	56.2	63.2	65.2	70.7	74.2	81.7	89.2	103.2	118.2	133.2	148.2	163.2	178.2	193.2
1.20	45.3	49.3	53.3	57.3	61.3	68.3	70.3	75.8	79.3	86.8	94.3	108.3	123.3	138.3	153.3	168.3	183.3	198.3
1.21	41.7	45.7	49.7	53.7	57.7	64.7	66.7	72.2	75.7	83.2	90.7	104.7	119.7	134.7	149.7	164.7	179.7	194.7
1.22	34.7	38.7	42.7	46.7	50.7	57.7	59.7	65.2	68.7	76.2	83.7	97.7	112.7	127.7	142.7	157.7	172.7	187.7
1.22	42.5	46.5	50.5	54.5	58.5	65.5	67.5	73.0	76.5	84.0	91.5	105.5	120.5	135.5	150.5	165.5	180.5	195.5
1.23	39.0	43.0	47.0	51.0	55.0	62.0	64.0	69.5	73.0	80.5	88.0	102.0	117.0	132.0	147.0	162.0	177.0	192.0
1.24	43.3	47.3	51.3	55.3	59.3	66.3	68.3	73.8	77.3	84.8	92.3	106.3	121.3	136.3	151.3	166.3	181.3	196.3
1.24	29.1	33.1	37.1	41.1	45.1	52.2	54.2	59.7	63.2	70.7	78.2	92.2	107.2	122.2	137.2	152.2	167.2	182.2
1.25	40.6	44.6	48.6	52.6	56.6	63.6	65.6	71.1	74.6	82.1	89.6	103.6	118.6	133.6	148.6	163.6	178.6	193.6
1.25	44.1	48.1	52.1	56.1	60.1	67.1	69.1	74.6	78.1	85.6	93.1	107.1	122.1	137.1	152.1	167.1	182.1	197.1
1.26	37.8	41.8	45.8	49.8	53.8	60.8	62.8	68.3	71.8	79.3	86.8	100.8	115.8	130.8	145.8	160.8	175.8	190.8
1.27	44.9	48.9	52.9	56.9	60.9	67.9	69.9	75.4	78.9	86.4	93.9	107.9	122.9	137.9	152.9	167.9	182.9	197.9
1.28	32.3	36.3	40.3	44.3	48.3	55.3	57.3	62.8	66.3	73.8	81.3	95.3	110.3	125.3	140.3	155.3	170.3	185.3
1.28	42.1	46.1	50.1	54.1	58.1	65.1	67.1	72.6	76.1	83.6	91.1	105.1	120.1	135.1	150.1	165.1	180.1	195.1
1.29	39.4	43.4	47.4	51.4	55.4	62.4	64.4	69.9	73.4	80.9	88.4	102.4	117.4	132.4	147.4	162.4	177.4	192.4
1.30	42.9	46.9	50.9	54.9	58.9	65.9	67.9	73.4	76.9	84.4	91.9	105.9	120.9	135.9	150.9	165.9	180.9	195.9
1.32	43.7	47.7	51.7	55.7	59.7	66.7	68.7	74.2	77.7	85.2	92.7	106.7	121.7	136.7	151.7	166.7	181.7	196.7
1.32	40.9	44.9	48.9	52.9	56.9	63.9	65.9	71.4	74.9	82.4	89.9	103.9	118.9	133.9	148.9	163.9	178.9	193.9
1.32	38.2	42.2	46.2	50.2	54.2	61.2	63.2	68.7	72.2	79.7	87.2	101.2	116.2	131.2	146.2	161.2	176.2	191.2
1.32	35.4	39.4	43.4	47.4	51.4	58.4	60.4	65.9	69.4	76.9	84.4	98.4	113.4	128.4	143.4	158.4	173.4	188.4
1.34	44.5	48.5	52.5	56.5	60.5	67.5	69.5	75.0	78.5	86.0	93.5	107.5	122.5	137.5	152.5	167.5	182.5	197.5
1.35	39.7	43.7	47.7	51.7	55.7	62.7	64.7	70.2	73.7	81.2	88.7	102.7	117.7	132.7	147.7	162.7	177.7	192.7
1.36	42.5	46.5	50.5	54.5	58.5													



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

C

S-L CLASSIC

CX

CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv.		1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Size/Center Distance																	
	Datum Driver	Diam. Driven	Driven RPM	HP	Per Belt C	HP	Per Belt C	HP	Per Belt C	C51 CX51	C60 CX60	C68 CX68	C75 CX75	C81 CX81	C85 CX85	C90 CX90	C96 CX96	C105 CX105											
1.38	10.0	14.0	1264	24.12	29.40	838	19.25	22.50	628	15.66	18.07	---	12.4	16.5	20.0	23.0	25.0	27.5	30.5	35.1									
1.39	8.5	12.0	1256	19.26	25.29	833	15.14	19.01	624	12.29	15.20	10.7	15.3	19.3	22.8	25.8	27.8	30.3	33.3	37.8									
1.41	7.0	10.0	1245	13.74	20.63	825	10.79	15.31	619	8.80	12.21	13.5	18.0	22.1	25.6	28.6	30.6	33.1	36.1	40.6									
1.42	14.0	20.0	1235	33.44	37.38	819	28.99	30.75	614	24.03	25.19	---	---	---	---	---	---	19.5	22.6	27.1									
1.43	9.0	13.0	1228	21.00	26.77	814	16.57	20.23	610	13.46	16.20	---	14.0	18.1	21.6	24.6	26.6	29.1	32.1	36.6									
1.44	11.0	16.0	1216	27.05	31.90	806	21.91	24.76	605	17.88	19.96	---	---	14.0	17.6	20.6	22.6	25.1	28.1	32.7									
1.44	7.5	11.0	1213	15.71	22.30	804	12.30	16.61	603	10.01	13.25	12.3	16.8	20.9	24.4	27.4	29.4	31.9	34.9	39.4									
1.45	9.5	14.0	1203	22.67	28.19	797	17.97	21.42	598	14.60	17.17	---	12.8	16.9	20.4	23.4	25.4	27.9	30.9	35.4									
1.47	7.0	10.5	1188	13.83	20.71	788	10.85	15.37	591	8.84	12.25	13.1	17.6	21.6	25.2	28.2	30.2	32.7	35.7	40.2									
1.48	8.0	12.0	1185	17.59	23.90	786	13.78	17.87	589	11.19	14.27	11.1	15.6	19.6	23.2	26.2	28.2	30.7	33.7	38.2									
1.48	12.0	18.0	1179	29.61	34.09	782	24.43	26.90	596	20.02	21.79	---	---	---	15.1	18.2	20.2	22.7	25.7	30.3									
1.49	16.0	24.0	1176	---	---	780	33.13	34.26	585	27.88	28.45	---	---	---	---	---	---	---	---	22.2									
1.50	10.5	16.0	1163	25.74	30.80	771	20.67	23.72	578	16.83	19.08	---	---	14.4	17.9	21.0	23.0	25.5	28.5	33.0									
1.51	8.5	13.0	1162	19.39	25.43	770	15.23	19.10	578	12.36	15.27	---	14.4	18.4	22.0	25.0	27.0	29.5	32.5	37.0									
1.52	13.0	20.0	1150	31.80	35.97	762	26.83	28.93	571	22.10	23.55	---	---	---	---	17.7	20.2	23.3	27.8	---									
1.53	9.0	14.0	1142	21.12	26.89	757	16.65	20.31	568	13.51	16.25	---	13.2	17.2	20.7	23.8	25.8	28.3	31.3	35.8									
1.54	7.0	11.0	1136	13.90	20.78	753	10.89	15.41	565	8.87	12.28	12.7	17.2	21.2	24.7	27.7	29.8	32.3	35.3	39.8									
1.57	7.5	12.0	1115	15.83	22.42	739	12.39	16.69	554	10.07	13.31	11.4	16.0	20.0	23.5	26.5	28.6	31.1	34.1	38.6									
1.58	10.0	16.0	1110	24.33	29.62	735	19.39	22.64	552	15.77	18.18	---	---	14.7	18.3	21.3	23.3	25.9	28.9	33.4									
1.60	8.0	13.0	1097	17.69	24.00	727	13.85	17.94	545	11.25	14.32	---	14.8	18.8	22.3	25.3	27.4	29.9	32.9	37.4									
1.61	11.0	18.0	1084	27.21	32.06	719	22.01	24.87	539	17.96	20.04	---	---	---	15.8	18.9	20.9	23.4	26.5	31.0									
1.62	8.5	14.0	1082	19.48	25.52	717	15.29	19.16	538	12.41	15.31	---	13.5	17.6	21.1	24.1	26.1	28.7	31.7	36.2									
1.65	12.0	20.0	1064	29.74	34.22	705	24.52	26.99	529	20.08	21.85	---	---	---	16.3	18.4	20.9	24.0	28.5	---									
1.66	9.5	16.0	1056	22.83	28.36	700	18.08	21.53	525	14.68	17.26	---	---	15.1	18.6	21.7	23.7	26.2	29.3	33.8									
1.67	16.0	27.0	1047	---	---	694	33.22	34.36	521	27.95	28.52	---	---	---	---	---	---	---	---	---									
ARC-LENGTH CORRECTION FACTOR -->												0.75	0.79	0.82	0.84	0.86	0.87	0.88	0.90	0.92									
1.68	7.0	12.0	1044	13.99	20.87	692	10.95	15.48	519	8.92	12.33	11.8	16.3	20.4	23.9	26.9	28.9	31.4	34.4	39.0									
1.69	10.5	18.0	1037	25.87	30.93	687	20.75	23.80	515	16.90	19.15	---	---	---	16.1	19.2	21.2	23.8	26.8	31.4									
1.69	14.0	24.0	1033	33.67	37.62	685	29.15	30.91	513	24.15	25.31	---	---	---	---	---	---	---	---	23.6									
1.70	7.5	13.0	1032	15.91	22.50	684	12.44	16.74	513	10.11	13.35	10.5	15.1	19.2	22.7	25.7	27.7	30.2	33.2	37.8									
1.71	8.0	14.0	1021	17.76	24.07	677	13.90	17.99	507	11.28	14.35	---	---	13.9	17.9	21.5	24.5	26.5	29.0	32.0									
1.74	9.0	16.0	1003	21.25	27.02	665	16.73	20.40	499	13.56	16.32	---	---	15.4	19.0	22.0	24.1	26.6	29.6	34.1									
1.77	10.0	18.0	989	24.44	29.72	656	19.46	22.71	492	15.82	18.23	---	---	16.5	19.6	21.6	24.1	27.2	31.7	---									
1.79	11.0	20.0	978	27.30	32.15	648	22.07	24.93	486	18.00	20.09	---	---	---	17.0	19.1	21.6	24.7	29.3	---									
1.81	7.0	13.0	966	14.05	20.93	641	10.99	15.52	480	8.95	12.36	10.8	15.5	19.5	23.1	26.1	28.1	30.6	33.6	38.1									
1.82	13.0	24.0	961	31.97	36.15	637	26.94	29.05	478	22.18	23.64	---	---	---	---	---	---	---	19.6	24.3									
1.82	7.5	14.0	960	15.97	22.56	636	12.47	16.78	477	10.14	13.38	---	14.2	18.3	21.8	24.9	26.9	29.4	32.4	36.9									
1.84	8.5	16.0	950	19.59	25.62	630	15.36	19.23	472	12.46	15.37	---	---	15.8	19.4	22.4	24.4	27.0	30.0	34.5									
1.85	16.0	30.0	944	---	---	626	33.27	34.41	469	27.98	28.56	---	---	---	---	---	---	---	---	---									
1.86	9.5	18.0	942	22.92	28.44	624	18.14	21.59	468	14.73	17.30	---	---	16.8	19.9	22.0	24.5	27.5	32.1	---									
1.87	10.5	20.0	935	25.94	31.01	620	20.80	23.85	465	16.93	19.18	---	---	---	17.4	19.4	22.0	25.1	29.6	---									
1.90	14.0	27.0	920	33.75	37.70	610	29.20	30.96	457	24.19	25.35	---	---	---	---	---	---	---	---	20.7									
1.95	7.0	14.0	899	14.09	20.97	596	11.02	15.54	447	8.97	12.38	---	14.5	18.6	22.2	25.2	27.2	29.8	32.8	37.3									
1.95	8.0	16.0	896	17.85	24.15	594	13.95	18.04	446	11.32	14.40	---	---	16.1	19.7	22.8	24.8	27.3	30.3	34.9									
1.96	9.0	18.0	894	21.32	27.10	593	16.78	20.44	444	13.61	16.36	---	---	13.5	17.2	20.3	22.3	24.8	27.9	32.4									
1.96	10.0	20.0	892	24.60	29.79	591	19.50	22.75	444	15.85	18.26	---	---	---	17.7	19.8	22.3	25.4	30.0	---									
1.97	12.0	24.0	889	29.87	34.35	590	24.60	27.07	442	20.15	21.92	---	---	---	---	---	---	---	20.3	25.0									
2.04	13.0	27.0	856	32.03	36.21	567	26.98	29.09	425	22.21	23.67	---	---	---	---	---	---	---	---	21.4									
2.06	9.5	20.0	849	22.97	28.50	563	18.17	21.63	422	14.75	17.33	---	---	14.9	18.0	20.1	22.7	25.8	30.3	---									
2.07	8.5	18.0	846	19.65	25.68	561	15.40	19.27	421	12.49	15.39	---	---	13.8	17.5	20.6	22.6	25.2	28.2	32.8									
2.08	7.5	16.0	843	16.03	22.62	559	12.52	16.82	419	10.17	13.41	---	12.3	16.5	20.1	23.1	25.1	27.7	30.7	35.2									
2.11	14.0	30.0	829	33.80	37.74	549	29.24	30.99	412	24.22	25.37	---	---	---	---	---	---	---	---	---									
2.14	11.0	24.0	818	27.39	32.24	542	22.13	24.99	406	18.05	20.13	---	---	---	---	---	---	17.8	21.0	25.7									
2.17	9.0	20.0	806	21.37	27.14	535	16.81	20.47	401	13.64	16.38	---	---	---	15.2	18.4	20.4	23.0	26.1	30.7									
2.19	8.0	18.0	799	17.89	24.20	530	13.98	18.07	397	11.34	14.42	---	---	14.2	17.8	20.9	23.0	25.6	28.6	33.2									
2.21	12.0	27.0	792	29.91	34.39	525	24.63	27.10	394	20.17	21.94	---	---	---	---	---	---	---	---	22.1									
2.22	7.0	16.0	790	14.14	21.03	523	11.05	15.58	393	9.00	12.41	---	---	12.6	16.8	20.4	23.5	25.5	28.0	31.1									
2.22	16.0	36.0	788	---	---	523	33.33	34.46	392	28.02	28.59	---	---	---	---	---	---	---	---	---									
2.24	10.5	24.0	782	26.02	31.08	518	20.85	23.90	389	16.97	19.22	---	---	---	---	---	---	18.1	21.3	26.0									
2.27	13.0	30.0	771	32.07	36.24	511	27.01	29.11	383	22.23	23.69	---	---	---	---	---	---	---	---	---									
ARC-LENGTH CORRECTION FACTOR -->												0.74	0.78	0.81	0.83	0.85	0.86	0.88	0.89	0.91									

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

C S-L CLASSIC

CX CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																	
	C112 CX112	C120 CX120	C128 CX128	C136 CX136	C144 CX144	C158 CX158	C162 CX162	C173 CX173	C180 CX180	C195 CX195	C210 CX210	C240 CX240	C270 CX270	C300 CX300	C330 CX330	C360 CX360	C390 CX390	C420 CX420
1.38	38.6	42.6	46.6	50.6	54.6	61.6	63.6	69.1	72.6	80.1	87.6	101.6	116.6	131.6	146.6	161.6	176.6	191.6
1.39	41.3	45.3	49.3	53.3	57.3	64.3	66.3	71.8	75.3	82.8	90.3	104.3	119.3	134.3	149.3	164.3	179.3	194.3
1.41	44.1	48.1	52.1	56.1	60.1	67.1	69.1	74.6	78.1	85.6	93.1	107.1	122.1	137.1	152.1	167.1	182.1	197.1
1.42	30.6	34.6	38.6	42.7	46.7	53.7	55.7	61.2	64.7	72.2	79.7	93.7	108.7	123.7	138.7	153.7	168.7	183.7
1.43	40.1	44.1	48.1	52.1	56.1	63.1	65.1	70.7	74.2	81.7	89.2	103.2	118.2	133.2	148.2	163.2	178.2	193.2
1.44	36.2	40.2	44.2	48.2	52.2	59.2	61.2	66.7	70.2	77.7	85.2	99.2	114.2	129.2	144.2	159.2	174.2	189.2
1.44	42.9	46.9	50.9	54.9	58.9	65.9	67.9	73.4	76.9	84.4	91.9	105.9	120.9	135.9	150.9	165.9	180.9	195.9
1.45	38.9	42.9	46.9	51.0	55.0	62.0	64.0	69.5	73.0	80.5	88.0	102.0	117.0	132.0	147.0	162.0	177.0	192.0
1.47	43.7	47.7	51.7	56.7	59.7	66.7	68.7	74.2	77.7	85.2	92.7	106.7	121.7	136.7	151.7	166.7	181.7	196.7
1.48	41.7	45.7	49.7	53.7	57.7	64.7	66.7	72.2	75.7	83.2	90.7	104.7	119.7	134.7	149.7	164.7	179.7	194.7
1.48	33.8	37.8	41.8	45.8	49.8	56.8	58.8	64.3	67.8	75.3	82.8	96.9	111.9	126.9	141.9	156.9	171.9	185.9
1.49	25.7	29.8	33.8	37.8	41.9	48.9	50.9	56.4	59.9	67.4	74.9	89.0	104.0	119.0	134.0	149.0	164.0	179.0
1.50	36.5	40.6	44.6	48.6	52.6	59.6	61.6	67.1	70.6	78.1	85.6	99.6	114.6	129.6	144.6	159.6	174.6	189.6
1.51	40.5	44.5	48.5	52.5	56.5	63.5	65.5	71.0	74.5	82.0	89.5	103.5	118.5	133.5	148.5	163.5	178.5	193.5
1.52	31.3	35.3	39.3	43.4	47.4	54.4	56.4	61.9	65.5	73.0	80.5	94.5	109.5	124.5	139.5	154.5	169.5	184.5
1.53	39.3	43.3	47.3	51.3	55.3	62.3	64.3	69.9	73.4	80.9	88.4	102.4	117.4	132.4	147.4	162.4	177.4	192.4
1.54	43.3	47.3	51.3	55.3	59.3	66.3	68.3	73.8	77.3	84.8	92.3	106.3	121.3	136.3	151.3	166.3	181.3	196.3
1.57	42.1	46.1	50.1	54.1	58.1	65.1	67.1	72.6	76.1	83.6	91.1	105.1	120.1	135.1	150.1	165.1	180.1	195.1
1.58	36.9	40.9	44.9	48.9	53.0	60.0	62.0	67.5	71.0	78.5	86.0	100.0	115.0	130.0	145.0	160.0	175.0	190.0
1.60	40.9	44.9	48.9	52.9	56.9	63.9	65.9	71.4	74.9	82.4	89.9	103.9	118.9	133.9	148.9	163.9	178.9	193.9
1.61	34.5	38.5	42.5	46.6	50.6	57.6	59.6	65.1	68.6	76.1	83.6	97.6	112.6	127.6	142.6	157.6	172.6	187.7
1.62	39.7	43.7	47.7	51.7	55.7	62.7	64.7	70.2	73.7	81.2	88.7	102.7	117.7	132.7	147.7	162.7	177.8	192.8
1.65	32.1	36.1	40.1	44.1	48.2	55.2	57.2	62.7	66.2	73.7	81.2	95.2	110.2	125.2	140.2	155.2	170.3	185.3
1.66	37.3	41.3	45.3	49.3	53.3	60.3	62.3	67.9	71.4	78.9	86.4	100.4	115.4	130.4	145.4	160.4	175.4	190.4
1.67	23.0	27.1	31.2	35.3	39.3	46.4	48.4	53.9	57.4	65.0	72.5	86.5	101.5	116.5	131.5	146.5	161.5	176.6
	0.94	0.95	0.97	0.98	0.99	1.01	1.02	1.03	1.04	1.06	1.08	1.11	1.03	1.16	1.18	1.20	1.22	1.24
1.66	42.5	46.5	50.5	54.5	58.5	65.5	67.5	73.0	76.5	84.0	91.5	105.5	120.5	135.5	150.5	165.5	180.5	195.5
1.69	34.9	38.9	42.9	46.9	50.9	58.0	60.0	65.5	69.0	76.5	84.0	98.0	113.0	128.0	143.0	158.0	173.0	188.0
1.69	27.2	31.2	35.3	39.3	43.3	50.4	52.4	57.9	61.4	68.9	76.5	90.5	105.5	120.5	135.5	150.5	165.5	180.6
1.70	41.3	45.3	49.3	53.3	57.3	64.3	66.3	71.8	75.3	82.8	90.3	104.3	119.3	134.3	149.3	164.3	179.3	194.3
1.71	40.1	44.1	48.1	52.1	56.1	63.1	65.1	70.6	74.1	81.6	89.1	103.1	118.1	133.1	148.1	163.2	178.2	193.2
1.74	37.7	41.7	45.7	49.7	53.7	60.7	62.7	68.2	71.7	79.2	86.8	100.8	115.8	130.8	145.8	160.8	175.8	190.8
1.77	35.2	39.3	43.3	47.3	51.3	58.3	60.3	65.8	69.4	76.9	84.4	98.4	113.4	128.4	143.4	158.4	173.4	188.4
1.79	32.8	36.8	40.9	44.9	48.9	55.9	57.9	63.5	67.0	74.5	82.0	96.0	111.0	126.0	141.0	156.1	171.1	186.1
1.81	41.6	45.7	49.7	53.7	57.7	64.7	66.7	72.2	75.7	83.2	90.7	104.7	119.7	134.7	149.7	164.7	179.7	194.7
1.82	27.9	31.9	36.0	40.0	44.1	51.1	53.1	58.6	62.2	69.7	77.2	91.2	106.3	121.3	136.3	151.3	166.3	181.3
1.82	40.4	44.5	48.5	52.5	56.5	63.5	65.5	71.0	74.5	82.0	89.5	103.5	118.5	133.5	148.5	163.5	178.5	193.5
1.84	38.0	42.1	46.1	50.1	54.1	61.1	63.1	68.6	72.1	79.6	87.1	101.1	116.2	131.2	146.2	161.2	176.2	191.2
1.85	---	24.3	28.5	32.6	36.7	43.8	45.8	51.4	54.9	62.4	70.0	84.0	99.1	114.1	129.2	144.2	159.2	174.2
1.86	35.6	39.6	43.7	47.7	51.7	58.7	60.7	66.2	69.7	77.2	84.8	98.8	113.8	128.8	143.8	158.8	173.8	188.8
1.87	33.2	37.2	41.2	45.3	49.3	56.3	58.3	63.8	67.3	74.9	82.4	96.4	111.4	126.4	141.4	156.4	171.4	186.4
1.90	24.4	28.5	32.6	36.7	40.7	47.8	49.8	55.4	58.9	66.4	74.0	88.0	103.1	118.1	133.1	148.1	163.1	178.1
1.95	40.8	44.8	48.8	52.8	56.9	63.9	65.9	71.4	74.9	82.4	89.9	103.9	118.9	133.9	148.9	163.9	178.9	193.9
1.95	38.4	42.4	46.4	50.5	54.5	61.5	63.5	69.0	72.5	80.0	87.5	101.5	116.5	131.5	146.5	161.5	176.5	191.5
1.96	36.0	40.0	44.0	48.0	52.1	59.1	61.1	66.6	70.1	77.6	85.1	99.2	114.2	129.2	144.2	159.2	174.2	189.2
1.96	33.5	37.6	41.6	45.6	49.6	56.7	58.7	64.2	67.7	75.2	82.7	96.8	111.8	126.8	141.8	156.8	171.8	186.8
1.97	28.6	32.6	36.7	40.7	44.8	51.8	53.9	59.4	62.9	70.4	78.0	92.0	107.0	122.0	137.1	152.1	167.1	182.1
2.04	25.1	29.2	33.3	37.4	41.5	48.5	50.6	56.1	59.6	67.2	74.7	88.8	103.8	118.8	133.9	148.9	163.9	178.9
2.06	32.9	37.9	42.0	46.0	50.0	57.1	59.1	64.6	68.1	75.6	83.1	97.2	112.2	127.2	142.2	157.2	172.2	187.2
2.07	36.3	40.4	44.4	48.4	52.4	59.5	61.5	67.0	70.5	78.0	85.5	99.5	114.5	129.5	144.5	159.5	174.5	189.5
2.06	38.8	42.8	46.8	50.8	54.8	61.9	63.9	69.4	72.9	80.4	87.9	101.9	116.9	131.9	146.9	161.9	177.0	192.0
2.11	---	25.7	29.8	34.0	38.1	45.2	47.2	52.8	56.3	63.9	71.5	85.5	100.6	115.6	130.7	145.7	160.7	175.7
2.14	29.3	33.3	37.4	41.5	45.5	52.6	54.6	60.1	63.6	71.2	78.7	92.7	107.8	122.8	137.8	152.8	167.8	182.9
2.17	34.2	38.3	42.3	46.4	50.4	57.4	59.4	65.0	68.5	76.0	83.5	97.5	112.6	127.6	142.6	157.6	172.6	187.6
2.19	36.7	40.7	44.8	48.8	52.8	59.8	61.8	67.4	70.9	78.4	85.9	99.9	114.9	129.9	145.0	160.0	175.0	190.0
2.21	25.7	29.9	34.0	38.1	42.2	49.3	51.3	56.8	60.4	67.9	75.5	89.5	104.6	119.6	134.6	149.6	164.7	179.7
2.22	39.1	43.2	47.2	51.2	55.2	62.2	64.2	69.7	73.3	80.8	88.3	102.3	117.3	132.3	147.3	162.3	177.3	192.3
2.22	---	---	---	26.8	31.0	38.3	40.4	46.0	49.6	57.3	64.9	79.0	94.1	109.2	124.2	139.3	154.3	169.3
2.24	29.6	33.7	37.8	41.8	45.9	52.9	55.0	60.5	64.0	71.5	79.1	93.1	108.2	123.2	138.2	153.2	168.2	183.2
2.27	22.1	26.3	30.5	34.7	38.8	45.9	47.9	53.5	57.1	64.6	72.2	86.3	101.3	116.4	131.4	146.4	161.5	176.5
	0.93	0.95	0.96	0.97	0.99	1.01	1.02	1.03	1.04	1.06	1.08	1.10	1.13	1.16	1.18	1.20	1.22	1.23

Bushings

V-Drives

FHP

Drives Component Accessories

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

C

S-L CLASSIC

CX

CLASSIC COG

STOCK DRIVE SELECTIONS

Ratio	Stock Shv.			1750 RPM Driver			1160 RPM Driver			870 RPM Driver			Belt Size/Center Distance																	
	Datum Diam.		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		Driven RPM	HP Per Belt		C51 CX51	C60 CX60	C68 CX68	C75 CX75	C81 CX81	C85 CX85	C90 CX90	C96 CX96	C105 CX105										
	Driver	Driven		C	CX		C	CX		C	CX																			
2.29	8.5	20.0	763	19.68	25.71	506	15.42	19.29	380	12.50	15.41	---	---	---	15.5	18.7	20.8	23.4	26.5	31.0										
2.33	7.5	18.0	751	16.07	22.66	498	12.54	16.85	374	10.19	13.43	---	---	---	14.5	18.2	21.3	23.3	25.9	29.0										
2.35	10.0	24.0	746	24.56	29.85	494	19.54	22.79	371	15.88	18.29	---	---	---	---	---	---	18.4	21.6	26.3										
2.40	11.0	27.0	728	27.42	32.28	483	22.16	25.01	362	18.06	20.15	---	---	---	---	---	---	---	---	22.7										
2.43	8.0	20.0	721	17.92	24.23	478	14.00	18.09	358	11.36	14.43	---	---	---	15.8	19.0	21.1	23.7	26.8	31.4										
2.45	12.0	30.0	714	29.94	34.42	473	24.65	27.12	355	20.18	21.95	---	---	---	---	---	---	---	---	---										
2.48	9.5	24.0	710	23.03	28.55	471	18.20	21.66	353	14.78	17.35	---	---	---	---	---	---	18.8	22.0	26.7										
2.49	7.0	18.0	704	14.17	21.05	467	11.07	15.60	350	9.01	12.42	---	---	---	14.8	18.5	21.6	23.7	26.2	29.3										
2.51	10.5	27.0	696	26.05	31.11	461	20.87	23.92	346	16.99	19.23	---	---	---	---	---	---	---	---	23.0										
2.53	14.0	36.0	692	33.85	37.79	459	29.27	31.03	344	24.24	25.39	---	---	---	---	---	---	---	---	---										
2.58	7.5	20.0	678	16.09	22.68	449	12.56	16.86	337	10.20	13.44	---	---	---	16.2	19.4	21.5	24.1	27.1	31.7										
2.60	9.0	24.0	674	21.41	27.18	447	16.84	20.50	335	13.66	16.40	---	---	---	---	---	19.1	22.3	27.0	---										
2.63	10.0	27.0	664	24.59	29.87	440	19.56	22.81	330	15.89	18.31	---	---	---	---	---	---	---	---	23.4										
2.67	11.0	30.0	656	27.44	32.30	435	22.17	25.02	326	18.07	20.16	---	---	---	---	---	---	---	---	---										
2.71	16.0	44.0	646	---	---	428	33.36	34.49	321	28.05	28.62	---	---	---	---	---	---	---	---	---										
2.72	13.0	36.0	644	32.10	36.28	427	27.03	29.14	320	22.25	23.71	---	---	---	---	---	---	---	---	---										
2.74	8.5	24.0	638	19.72	25.75	423	15.44	19.32	317	12.52	15.43	---	---	---	---	---	16.6	19.4	22.6	27.3										
2.76	7.0	20.0	635	14.19	21.07	421	11.09	15.61	316	9.02	12.43	---	---	---	16.5	19.7	21.8	24.4	27.5	32.1										
2.77	9.5	27.0	632	23.05	28.57	419	18.22	21.67	314	14.79	17.36	---	---	---	---	---	---	---	18.8	23.7										
2.79	10.5	30.0	627	26.06	31.13	416	20.88	23.93	312	16.99	19.24	---	---	---	---	---	---	---	---	---										
2.90	8.0	24.0	602	17.95	24.26	399	14.02	18.11	300	11.37	14.45	---	---	---	---	---	16.9	19.7	22.9	27.7										
2.91	9.0	27.0	600	21.43	27.20	398	16.85	20.51	298	13.67	16.41	---	---	---	---	---	---	---	19.1	24.0										
2.92	10.0	30.0	599	24.60	29.89	397	19.57	22.82	298	15.90	18.31	---	---	---	---	---	---	---	---	20.1										
2.94	12.0	36.0	596	29.97	34.45	395	24.67	27.14	296	20.20	21.97	---	---	---	---	---	---	---	---	---										
3.07	9.5	30.0	570	23.06	28.58	378	18.23	21.68	283	14.79	17.37	---	---	---	---	---	---	---	---	20.4										
ARC-LENGTH CORRECTION FACTOR →												---	---	0.76	0.79	0.82	0.83	0.85	0.87	0.89	---	---	---	---	---	---	---	---	---	---
3.08	8.5	27.0	568	19.73	25.77	377	15.45	19.33	283	12.53	15.44	---	---	---	---	---	---	---	19.4	24.3										
3.08	14.0	44.0	568	33.88	37.82	376	29.29	31.05	282	24.25	25.41	---	---	---	---	---	---	---	---	---										
3.09	7.5	24.0	567	16.11	22.70	376	12.57	16.88	282	10.21	13.45	---	---	---	---	---	17.2	20.0	23.3	28.0										
3.19	11.0	36.0	648	27.47	32.32	363	22.18	25.04	272	18.08	20.17	---	---	---	---	---	---	---	---	---										
3.23	9.0	30.0	541	21.44	27.21	359	16.86	20.52	269	13.67	16.41	---	---	---	---	---	---	---	---	20.7										
3.26	8.0	27.0	536	17.96	24.27	356	14.03	18.12	267	11.38	14.45	---	---	---	---	---	---	---	19.7	24.6										
3.30	7.0	24.0	531	14.21	21.09	352	11.10	15.62	264	9.03	12.44	---	---	---	---	---	17.6	20.3	23.6	28.3										
3.31	13.0	44.0	528	32.13	36.30	350	27.05	29.15	263	22.26	23.72	---	---	---	---	---	---	---	---	---										
3.34	10.5	36.0	524	26.08	31.15	347	20.90	23.95	261	17.00	19.25	---	---	---	---	---	---	---	---	---										
3.42	8.5	30.0	512	19.74	25.77	340	15.46	19.33	255	12.53	15.44	---	---	---	---	---	---	---	---	21.0										
3.47	7.5	27.0	505	16.12	22.71	334	12.58	16.88	251	10.21	13.46	---	---	---	---	---	---	---	20.0	25.0										
3.50	10.0	36.0	500	24.62	29.90	331	19.58	22.83	249	15.91	18.32	---	---	---	---	---	---	---	---	---										
3.58	12.0	44.0	489	29.99	34.47	324	24.68	27.15	243	20.21	21.98	---	---	---	---	---	---	---	---	---										
3.62	8.0	30.0	484	17.97	24.28	321	14.04	18.12	240	11.38	14.46	---	---	---	---	---	---	---	---	21.3										
3.68	9.5	36.0	476	23.07	28.60	315	18.24	21.69	237	14.80	17.38	---	---	---	---	---	---	---	---	---										
3.70	7.0	27.0	473	14.22	21.10	313	11.10	15.63	235	9.04	12.44	---	---	---	---	---	---	---	20.3	25.3										
3.85	7.5	30.0	455	16.13	22.72	301	12.58	16.89	226	10.22	13.46	---	---	---	---	---	---	---	---	21.6										
3.87	9.0	36.0	452	21.45	27.22	300	16.87	20.53	225	13.68	16.42	---	---	---	---	---	---	---	---	---										
3.89	11.0	44.0	449	27.48	32.33	298	22.19	25.05	223	18.09	20.18	---	---	---	---	---	---	---	---	---										
4.07	10.5	44.0	430	26.10	31.16	285	20.91	23.95	214	17.01	19.26	---	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	0.74	0.77	0.80	0.84	---	---	---	---	---	---	---	---	---	---
4.09	8.5	36.0	428	19.75	25.79	284	15.47	19.34	213	12.54	15.45	---	---	---	---	---	---	---	---	---										
4.11	7.0	30.0	426	14.22	21.11	282	11.11	15.63	212	9.04	12.45	---	---	---	---	---	---	---	---	21.9										
4.27	10.0	44.0	410	24.63	29.92	272	19.59	22.84	204	15.92	18.33	---	---	---	---	---	---	---	---	---										
4.33	8.0	36.0	404	17.98	24.29	268	14.04	18.13	201	11.39	14.46	---	---	---	---	---	---	---	---	---										
4.48	9.5	44.0	390	23.08	28.61	259	18.24	21.70	194	14.81	17.38	---	---	---	---	---	---	---	---	---										
4.61	7.5	36.0	380	16.14	22.73	252	12.59	16.90	189	10.22	13.46	---	---	---	---	---	---	---	---	---										
4.72	9.0	44.0	370	21.46	27.23	246	16.87	20.53	184	13.68	16.42	---	---	---	---	---	---	---	---	---										
4.92	7.0	36.0	356	14.23	21.11	236	11.11	15.64	177	9.04	12.45	---	---	---	---	---	---	---	---	---										
4.99	8.5	44.0	351	19.76	25.79	233	15.47	19.35	174	12.54	15.45	---	---	---	---	---	---	---	---	---										
5.29	8.0	44.0	331	17.99	24.29	219	14.05	18.13	165	11.39	14.47	---	---	---	---	---	---	---	---	---										
5.62	7.5	44.0	311	16.15	22.74	206	12.59	16.90	155	10.23	13.47	---	---	---	---	---	---	---	---	---										
6.00	7.0	44.0	292	14.24	21.12	193	11.12	15.64	145	9.04	12.45	---	---	---	---	---	---	---	---	---										
ARC-LENGTH CORRECTION FACTOR →												---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.79

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

C S-L CLASSIC CX CLASSIC COG STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																		
	C112 CX112	C120 CX120	C128 CX128	C136 CX136	C144 CX144	C158 CX158	C162 CX162	C173 CX173	C180 CX180	C195 CX195	C210 CX210	C240 CX240	C270 CX270	C300 CX300	C330 CX330	C360 CX360	C390 CX390	C420 CX420	
2.29	34.6	38.6	42.7	46.7	50.8	57.8	59.8	65.3	68.8	76.4	83.9	97.9	112.9	127.9	143.0	158.0	173.0	188.0	
2.33	37.1	41.1	45.1	49.2	53.2	60.2	62.2	67.7	71.2	78.8	86.3	100.3	115.3	130.3	145.3	160.3	175.4	190.4	
2.35	29.9	34.0	38.1	42.2	46.2	53.3	55.3	60.9	64.4	71.9	79.5	93.5	108.5	123.6	138.6	153.6	168.6	183.6	
2.40	26.4	30.6	34.7	38.8	42.9	50.0	52.0	57.6	61.1	68.7	76.2	90.3	105.3	120.4	135.4	150.4	165.4	180.4	
2.43	35.0	39.0	43.1	47.1	51.1	58.2	60.2	65.7	69.2	76.7	84.3	98.3	113.3	128.3	143.3	158.4	173.4	188.4	
2.45	22.7	27.0	31.2	35.3	39.5	46.6	48.6	54.2	57.8	65.4	72.9	87.0	102.1	117.1	132.2	147.2	162.2	177.3	
2.48	30.3	34.4	38.5	42.5	46.6	53.7	55.7	61.2	64.7	72.3	79.8	93.9	108.9	123.9	139.0	154.0	169.0	184.0	
2.49	37.4	41.5	45.5	49.5	53.5	60.6	62.6	68.1	71.6	79.1	86.7	100.7	115.7	130.7	145.7	160.7	175.7	190.7	
2.51	26.7	30.9	35.0	39.1	43.2	50.3	52.4	57.9	61.5	69.0	76.6	90.6	105.7	120.7	135.8	150.8	165.8	180.8	
2.53	---	---	---	28.0	32.3	39.7	41.8	47.4	51.0	58.7	66.3	80.4	95.6	110.7	125.7	140.8	155.8	170.8	
2.58	35.3	39.4	43.4	47.5	51.5	58.5	60.5	66.1	69.6	77.1	84.6	98.7	113.7	128.7	143.7	158.7	173.8	188.8	
2.60	30.6	34.7	38.8	42.9	46.9	54.0	56.0	61.6	65.1	72.7	80.2	94.2	109.3	124.3	139.3	154.4	169.4	184.4	
2.63	27.1	31.2	35.4	39.5	43.6	50.7	52.7	58.3	61.8	69.4	76.9	91.0	106.1	121.1	136.1	151.2	166.2	181.2	
2.67	23.3	27.6	31.8	36.0	40.1	47.3	49.4	54.9	58.5	66.1	73.7	87.8	102.8	117.9	132.9	148.0	163.0	178.0	
2.71	---	---	---	---	---	30.1	32.3	38.3	42.0	49.9	57.7	72.0	87.2	102.4	117.5	132.6	147.7	162.7	
2.72	---	---	---	28.7	33.0	40.3	42.4	48.1	51.7	59.4	67.0	81.2	96.3	111.4	126.5	141.5	156.6	171.6	
2.74	31.0	35.1	39.2	43.2	47.3	54.4	56.4	62.0	65.5	73.0	80.6	94.6	109.7	124.7	139.7	154.7	169.8	184.8	
2.76	35.7	39.7	43.8	47.8	51.8	58.9	60.9	66.4	70.0	77.5	85.0	99.0	114.1	129.1	144.1	159.1	174.1	189.1	
2.77	27.4	31.6	35.7	39.8	43.9	51.0	53.1	58.6	62.2	69.7	77.3	91.4	106.4	121.5	136.5	151.5	166.6	181.6	
2.79	23.6	28.0	32.2	36.3	40.5	47.7	49.7	55.3	58.8	66.4	74.0	88.1	103.2	118.3	133.3	148.3	163.4	178.4	
2.90	31.3	35.4	39.5	43.6	47.7	54.7	56.8	62.3	65.8	73.4	80.9	95.0	110.0	125.1	140.1	155.1	170.1	185.2	
2.91	27.7	31.9	36.1	40.2	44.3	51.4	53.4	59.0	62.5	70.1	77.7	91.7	106.8	121.9	136.9	151.9	166.9	182.0	
2.92	24.0	28.3	32.5	36.7	40.8	48.0	50.1	55.7	59.2	66.8	74.4	88.5	103.6	118.6	133.7	148.7	163.7	178.8	
2.94	---	---	24.9	29.3	33.6	41.0	43.1	48.8	52.4	60.1	67.7	81.9	97.0	112.1	127.2	142.3	157.3	172.4	
3.07	24.3	28.6	32.8	37.0	41.2	48.4	50.4	56.0	59.6	67.2	74.7	88.9	103.9	119.0	134.1	149.1	164.1	179.1	
0.91	0.93	0.94	0.95	0.97	1.00	1.01	1.02	1.03	1.05	1.07	1.10	1.12	1.15	1.19	1.17	1.19	1.21	1.23	
3.08	28.1	32.3	36.4	40.5	44.6	51.8	53.8	59.4	62.9	70.5	78.0	92.1	107.2	122.2	137.3	152.3	167.3	182.3	
3.08	---	---	---	---	---	31.3	33.6	39.6	43.3	51.2	59.0	73.4	88.7	103.8	119.0	134.1	149.2	164.2	
3.09	31.6	35.8	39.9	43.9	48.0	55.1	57.1	62.7	66.2	73.8	81.3	95.4	110.4	125.5	140.5	155.5	170.5	185.5	
3.19	---	---	25.5	29.9	34.3	41.7	43.8	49.5	53.1	60.8	68.4	82.6	97.8	112.9	127.9	143.0	158.1	173.1	
3.23	24.6	28.9	33.2	37.4	41.5	48.7	50.7	56.4	59.9	67.5	75.1	89.2	104.3	119.4	134.4	149.5	164.5	179.5	
3.26	28.4	32.6	36.7	40.9	45.0	52.1	54.1	59.7	63.3	70.8	78.4	92.5	107.6	122.6	137.6	152.7	167.7	182.7	
3.30	32.0	36.1	40.2	44.3	48.4	55.5	57.5	63.0	66.6	74.1	81.7	95.7	110.8	125.8	140.9	155.9	170.9	185.9	
3.31	---	---	---	---	---	31.9	34.2	40.2	44.0	51.9	59.7	74.1	89.4	104.6	119.7	134.8	149.9	165.0	
3.34	---	---	25.8	30.3	34.6	42.0	44.1	49.8	53.4	61.1	68.8	83.0	98.1	113.2	128.3	143.4	158.4	173.5	
3.42	24.9	29.3	33.5	37.7	41.8	49.0	51.1	56.7	60.3	67.9	75.5	89.6	104.7	119.7	134.8	149.8	164.9	179.9	
3.47	28.7	32.9	37.1	41.2	45.3	52.5	54.5	60.1	63.6	71.2	78.8	92.9	107.9	123.0	138.0	153.1	168.1	183.1	
3.50	---	---	26.1	30.6	34.9	42.3	44.4	50.2	53.8	61.5	69.1	83.3	98.5	113.6	128.7	143.8	158.8	173.9	
3.58	---	---	---	---	---	32.6	34.8	40.9	44.6	52.6	60.4	74.8	90.1	105.3	120.4	135.5	150.6	165.7	
3.62	25.2	29.6	33.8	38.0	42.2	49.4	51.4	57.1	60.6	68.2	75.8	89.9	105.0	120.1	135.2	150.2	165.3	180.3	
3.68	---	---	26.4	30.9	35.2	42.7	44.8	50.5	54.1	61.8	69.5	83.7	98.8	114.0	129.1	144.1	159.2	174.2	
3.70	29.0	33.3	37.4	41.6	45.7	52.8	54.8	60.4	64.0	71.6	79.1	93.2	108.3	123.4	138.4	153.4	168.5	183.5	
3.85	25.5	29.9	34.2	38.4	42.5	49.7	51.8	57.4	61.0	68.6	76.2	90.3	105.4	120.5	135.5	150.6	165.6	180.7	
3.87	---	---	26.7	31.2	35.6	43.0	45.1	50.8	54.5	62.2	69.8	84.0	99.2	114.3	129.4	144.5	159.6	174.6	
3.89	---	---	---	---	---	33.2	35.4	41.5	45.3	53.2	61.0	75.5	90.8	106.0	121.2	136.3	151.4	166.5	
4.07	---	---	---	---	---	33.5	35.7	41.8	45.6	53.5	61.4	75.8	91.1	106.3	121.5	136.6	151.7	166.8	
0.86	0.89	0.91	0.93	0.95	0.97	0.98	1.00	1.01	1.03	1.05	1.08	1.11	1.14	1.16	1.19	1.20	1.22		
4.09	---	22.3	27.0	31.5	35.9	43.3	45.4	51.2	54.8	62.5	70.2	84.4	99.6	114.7	129.8	144.9	159.9	175.0	
4.11	25.8	30.2	34.5	38.7	42.9	50.1	52.1	57.8	61.3	68.9	76.5	90.7	105.8	120.9	135.9	151.0	166.0	181.0	
4.27	---	---	---	---	---	33.8	36.1	42.1	45.9	53.9	61.7	76.2	91.5	106.7	121.9	137.0	152.1	167.2	
4.33	---	22.6	27.3	31.8	36.2	43.7	45.8	51.5	55.1	62.9	70.5	84.8	99.9	115.1	130.2	145.2	160.3	175.4	
4.48	---	---	---	---	---	34.1	36.4	42.4	46.2	54.2	62.1	76.5	91.8	107.1	122.2	137.4	152.5	167.6	
4.61	---	22.9	27.6	32.1	36.5	44.0	46.1	51.8	55.5	63.2	70.9	85.1	100.3	115.4	130.5	145.6	160.7	175.7	
4.72	---	---	---	---	---	34.4	36.7	42.8	46.6	54.5	62.4	76.9	92.2	107.4	122.6	137.7	152.8	167.9	
4.92	---	23.2	27.9	32.5	36.8	44.3	46.4	52.2	55.8	63.5	71.2	85.5	100.7	115.8	130.9	146.0	161.0	176.1	
4.99	---	---	---	---	---	34.7	37.0	43.1	46.9	54.9	62.7	77.2	92.5	107.8	123.0	138.1	153.2	168.3	
5.29	---	---	---	---	---	26.5	35.0	37.3	43.4	47.2	55.2	63.1	77.5	92.9	108.1	123.3	138.5	153.6	168.7
5.62	---	---	---	---	---	26.8	35.3	37.6	43.7	47.5	55.5	63.4	77.9	93.2	108.5	123.7	138.8	153.9	169.0
6.00	---	---	---	---	---	27.1	35.6	37.9	44.0	47.8	55.9	63.7	78.2	93.6	108.8	124.0	139.2	154.3	169.4
0.82	0.85	0.87	0.89	0.91	0.95	0.96	0.98	0.99	1.01	1.04	1.07	1.10	1.13	1.16	1.18	1.20	1.22		

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

D S-L CLASSIC

STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.		1160 RPM Driver		870 RPM Driver		690 RPM Driver		Belt Size/Center Distance					
	Driven	Driven	Driven RPM	HP/Belt D	Driven RPM	HP/Belt D	Driven RPM	HP/Belt D	D120	D128	D144	D158	D162	D173
1.00	12.00	12.00	1160	28.43	870	24.56	690	21.13	42.8	46.8	54.8	61.8	63.8	69.3
1.00	13.00	13.00	1160	32.81	870	28.39	690	24.40	41.2	45.2	53.2	60.2	62.2	67.7
1.00	13.50	13.50	1160	34.92	870	30.26	690	26.02	40.5	44.5	52.5	59.5	61.5	67.0
1.00	14.00	14.00	1160	36.96	870	32.10	690	27.61	39.7	43.7	51.7	58.7	60.7	66.2
1.00	14.50	14.50	1160	38.93	870	33.92	690	29.19	38.9	42.9	50.9	57.9	59.9	65.4
1.00	15.00	15.00	1160	40.84	870	35.70	690	30.75	38.1	42.1	50.1	57.1	59.1	64.6
1.00	15.50	15.50	1160	42.68	870	37.45	690	32.30	37.3	41.3	49.3	56.3	58.3	63.8
1.00	16.00	16.00	1160	44.46	870	39.16	690	33.82	36.5	40.5	48.5	55.5	57.5	63.0
1.00	18.00	18.00	1160	50.84	870	45.70	690	39.74	33.4	37.4	45.4	52.4	54.4	59.9
1.00	22.00	22.00	1160	---	870	57.07	690	50.64	27.1	31.1	39.1	46.1	48.1	53.6
1.03	15.50	16.00	1125	43.34	844	37.94	669	32.69	36.9	40.9	48.9	55.9	57.9	63.4
1.03	15.00	15.50	1124	41.52	843	36.20	669	31.16	37.7	41.7	49.7	56.7	58.7	64.2
1.03	14.50	15.00	1123	39.63	842	34.44	668	29.61	38.5	42.5	50.5	57.5	59.5	65.0
1.03	14.00	14.50	1122	37.67	841	32.64	667	28.04	39.3	43.3	51.3	58.3	60.3	65.8
1.04	13.50	14.00	1120	35.66	840	30.82	666	26.46	40.1	44.1	52.1	59.1	61.1	66.6
1.04	13.00	13.50	1119	33.58	839	28.96	666	24.86	40.8	44.8	52.8	59.8	61.8	67.3
1.06	15.00	16.00	1090	42.09	818	36.64	648	31.50	37.3	41.3	49.3	46.3	58.3	63.8
1.07	14.50	15.50	1088	40.22	816	34.88	647	29.96	38.1	42.1	50.1	57.1	59.1	64.6
1.07	14.00	15.00	1086	38.28	814	33.10	646	28.40	38.9	42.9	50.9	57.9	59.9	65.4
1.07	13.50	14.50	1083	36.28	812	31.28	644	26.83	39.7	43.7	51.7	58.7	60.7	66.2
1.07	13.00	14.00	1081	34.22	810	29.44	643	25.24	40.5	44.5	52.5	59.5	61.5	67.0
1.08	12.00	13.00	1075	29.93	806	25.68	639	22.02	42.0	46.0	54.0	61.0	63.0	68.5
1.10	14.50	16.00	1055	40.72	791	35.26	628	30.26	37.7	41.7	49.7	56.7	58.7	64.2
1.10	14.00	15.50	1052	38.79	789	33.48	626	28.70	38.5	42.5	50.5	57.5	59.5	65.0
1.11	13.50	15.00	1048	36.80	786	31.67	624	27.14	39.3	43.3	51.3	58.3	60.3	65.8
ARC-LENGTH CORRECTION FACTOR →									0.86	0.87	0.90	0.92	0.92	0.93
1.11	18.00	20.00	1047	52.74	786	47.13	623	40.87	31.8	35.8	43.8	50.8	52.8	58.3
1.11	13.00	14.50	1045	34.85	784	29.84	621	25.55	40.1	44.1	52.1	59.1	61.1	66.6
1.12	12.00	13.50	1037	30.48	777	26.09	617	22.34	41.6	45.6	53.6	60.6	62.6	68.1
1.12	16.00	18.00	1035	46.53	776	40.71	616	35.05	34.9	38.9	46.9	54.0	56.0	61.5
1.14	14.00	16.00	1020	39.22	765	33.80	607	28.96	38.1	42.1	50.1	57.1	59.1	64.6
1.14	13.50	15.50	1016	37.24	762	32.00	604	27.40	38.9	42.9	50.9	57.9	59.9	65.4
1.15	13.00	15.00	1011	35.19	758	30.17	602	25.82	39.7	43.7	51.7	58.7	60.7	66.2
1.16	15.50	18.00	1004	45.15	753	39.30	597	33.76	35.3	39.3	47.3	54.3	56.3	61.2
1.16	12.00	14.00	1001	30.93	751	26.44	595	22.61	41.2	45.2	53.2	60.2	62.2	67.7
1.18	13.50	16.00	985	37.60	739	32.28	586	27.62	38.5	42.5	0.5	57.5	59.5	65.0
1.18	13.00	15.50	980	35.56	735	30.45	583	26.04	39.3	43.3	51.3	58.3	60.3	65.8
1.19	15.00	18.00	973	43.67	730	37.82	579	32.43	35.7	39.7	47.7	54.7	56.7	62.2
1.20	12.00	14.50	968	31.31	726	26.72	576	22.84	40.8	44.8	52.8	59.8	61.8	67.3
1.22	18.00	22.00	955	53.86	716	47.97	568	41.53	30.2	34.2	42.2	49.2	51.2	56.7
1.22	13.00	16.00	950	35.87	713	30.68	565	26.22	38.9	42.9	50.9	57.9	59.9	65.4
1.22	22.00	27.00	950	---	712	59.37	565	52.46	---	27.1	35.1	42.1	44.1	49.6
1.23	14.50	18.00	942	42.08	706	36.27	560	31.06	36.1	40.1	48.1	55.1	57.1	62.6
1.24	12.00	15.00	937	31.62	703	26.95	557	23.02	40.4	44.4	52.4	59.4	61.4	66.9
1.24	16.00	20.00	935	47.67	701	41.57	556	35.73	33.3	37.3	45.3	52.4	54.4	59.9
1.27	14.00	18.00	911	40.38	683	34.67	542	29.65	36.5	40.5	48.5	55.5	57.5	63.0
1.28	12.00	15.50	908	31.88	681	27.15	540	23.18	40.0	44.0	52.0	59.0	61.0	66.5
1.28	15.50	20.00	907	46.14	680	40.04	539	34.36	33.7	37.7	45.7	52.7	54.7	60.2
1.32	12.00	16.00	880	32.10	660	27.31	524	23.31	39.6	43.6	51.6	58.6	60.6	66.1
1.32	13.50	18.00	879	38.59	660	33.02	523	28.20	36.9	40.9	48.9	55.9	57.9	63.4
1.32	15.00	20.00	878	44.52	659	38.46	523	32.94	34.1	38.1	46.1	53.1	55.1	60.6
1.36	16.00	22.00	852	48.33	639	42.07	507	36.12	31.7	35.7	43.7	50.7	52.7	58.2
1.36	14.50	20.00	850	42.81	638	36.83	506	31.50	34.5	38.5	46.5	53.5	55.5	61.0
1.37	13.00	18.00	848	36.71	636	31.31	505	26.72	37.2	41.2	49.2	56.2	58.2	63.7
1.40	15.50	22.00	826	46.72	620	40.47	492	34.69	32.0	36.0	44.0	51.0	53.0	58.5
1.41	14.00	20.00	822	41.01	617	35.15	489	30.03	34.8	38.8	46.8	53.8	55.8	61.3
1.45	15.00	22.00	801	45.02	601	38.83	476	33.24	32.4	36.4	44.4	51.4	53.4	58.9
1.46	13.50	20.00	794	39.13	595	33.42	472	28.52	35.2	39.2	47.2	54.2	56.2	61.7
1.48	12.00	18.00	786	32.68	589	27.75	467	23.66	38.0	42.0	50.0	57.0	59.0	64.5
1.48	18.00	27.00	782	55.12	586	48.91	465	42.28	25.9	30.0	38.0	45.0	47.0	52.5
1.49	22.00	33.00	780	---	585	60.28	464	53.18	---	---	30.0	37.0	39.0	44.5
ARC-LENGTH CORRECTION FACTOR →									0.84	0.86	0.88	0.90	0.91	0.92

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

D S-L CLASSIC

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																
	D180	D195	D210	D225	D240	D255	D270	D300	D315	D330	D360	D390	D420	D480	D540	D600	D660
1.00	72.8	80.3	87.8	94.1	101.6	109.1	116.6	131.6	139.1	146.6	161.6	176.6	191.6	221.6	251.6	281.6	311.6
1.00	71.2	78.7	86.2	92.5	100.0	107.5	115.0	130.0	137.5	145.0	160.0	175.0	190.0	220.0	250.0	280.0	310.0
1.00	70.5	78.0	85.5	91.7	99.2	106.7	114.2	129.2	136.7	144.2	159.2	174.2	189.2	219.2	249.2	279.2	309.2
1.00	69.7	77.2	84.7	90.9	98.4	105.9	113.4	128.4	135.9	143.4	158.4	173.4	188.4	218.4	248.4	278.4	308.4
1.00	68.9	76.4	83.4	90.1	97.6	105.1	112.6	127.6	135.1	142.6	157.6	172.6	187.6	217.6	247.6	277.6	307.6
1.00	68.1	75.6	83.1	89.4	96.8	104.4	111.9	126.9	134.4	141.8	156.8	171.8	186.8	216.8	246.8	276.8	306.8
1.00	67.3	74.8	82.3	88.6	96.1	103.6	111.1	126.1	133.6	141.1	156.1	171.1	186.1	216.1	246.1	276.1	306.1
1.00	66.5	74.0	81.5	87.8	95.3	102.8	110.3	125.3	132.8	140.3	155.3	170.3	185.3	215.3	245.3	275.3	305.3
1.00	63.4	70.9	78.4	84.6	92.1	99.6	107.1	122.1	129.6	137.1	152.1	167.1	182.1	212.1	242.1	272.1	302.1
1.00	57.1	64.6	72.1	78.4	85.9	93.4	100.9	115.9	123.4	130.9	145.9	160.9	175.9	205.9	235.9	265.9	295.9
1.03	66.9	74.4	81.9	88.2	95.7	103.2	110.7	125.7	133.2	140.7	155.7	170.7	185.7	215.7	245.7	275.7	305.7
1.03	67.7	75.2	82.7	89.0	96.5	104.0	111.5	126.5	134.0	141.5	156.5	171.5	186.5	216.5	246.5	276.5	306.5
1.03	68.5	76.0	83.5	89.7	97.2	104.7	112.2	127.2	134.7	142.2	157.2	172.2	187.2	217.2	247.2	277.2	307.2
1.03	69.3	76.8	84.3	90.5	98.0	105.5	113.0	128.0	135.5	143.0	158.0	173.0	188.0	218.0	248.0	278.0	308.0
1.04	70.1	77.6	85.1	91.3	98.8	106.3	113.8	128.8	136.3	143.8	158.8	173.8	188.8	218.8	248.8	278.8	308.8
1.04	70.8	78.3	85.8	92.1	99.6	107.1	114.6	129.6	137.1	144.6	159.6	174.6	189.6	219.6	249.6	279.6	309.6
1.06	67.3	74.8	82.3	88.6	96.1	103.6	111.1	126.1	133.6	141.1	156.1	171.1	186.1	216.1	246.1	276.1	306.1
1.07	68.1	75.6	83.1	89.3	96.8	104.3	111.8	126.8	134.3	141.8	156.8	171.8	186.8	216.8	246.8	276.8	306.8
1.07	68.9	76.4	83.9	90.1	97.6	105.1	112.6	127.6	135.1	142.6	157.6	172.6	187.6	217.6	247.6	277.6	307.6
1.07	69.7	77.2	84.7	90.9	98.4	105.9	113.4	128.4	135.9	143.4	158.4	173.4	188.4	218.4	248.4	278.4	308.4
1.07	70.5	78.0	85.5	91.5	99.2	106.7	114.2	129.2	136.7	144.2	159.2	174.2	189.2	219.2	249.2	279.2	309.2
1.08	72.0	79.5	87.0	93.3	100.8	108.3	115.8	130.8	138.3	145.8	160.8	175.8	190.8	220.8	250.8	280.8	310.8
1.10	67.7	75.2	82.7	89.0	96.5	104.0	111.5	126.5	134.0	141.5	156.5	171.5	186.5	216.5	246.5	276.5	306.5
1.10	68.5	76.0	83.5	89.7	97.2	104.7	112.2	127.2	134.7	142.2	157.2	172.2	187.2	217.2	247.2	277.2	307.2
1.11	69.3	76.8	84.3	90.5	98.0	105.5	113.0	128.0	135.5	143.0	158.0	173.0	188.0	218.0	248.0	278.0	308.0
0.94	0.96	0.97	0.99	1.00	1.01	1.02	1.04	1.05	1.05	1.05	1.08	1.10	1.11	1.14	1.16	1.19	1.20
1.11	61.8	69.3	76.8	83.1	90.6	98.1	105.6	120.6	128.1	135.6	150.6	165.6	180.6	210.6	240.6	270.6	300.6
1.11	70.1	77.6	85.1	91.3	98.8	106.3	113.8	128.8	136.3	143.8	158.8	173.8	188.8	218.8	248.8	278.8	308.8
1.12	71.6	79.1	86.6	92.9	100.4	107.9	115.4	130.4	137.9	145.4	160.4	175.4	190.4	220.4	250.4	280.4	310.4
1.12	65.0	72.5	80.0	86.2	93.7	101.2	108.7	123.7	131.2	138.7	153.7	168.7	183.7	213.7	243.7	273.7	303.7
1.14	68.1	75.6	83.1	89.3	96.8	104.3	111.8	126.8	134.3	141.8	156.8	171.8	186.8	216.8	246.8	276.8	306.8
1.14	68.9	76.4	83.9	90.1	97.6	105.1	112.6	127.6	135.1	142.6	157.6	172.6	187.6	217.6	247.6	277.6	307.6
1.15	69.7	77.2	84.7	90.9	98.4	105.9	113.4	128.4	135.9	143.4	158.4	173.4	188.4	218.4	248.4	278.4	308.4
1.16	65.3	72.8	80.3	86.6	94.1	101.6	109.1	124.1	131.6	139.1	154.1	169.1	184.1	214.1	244.1	274.1	304.1
1.16	71.2	78.7	86.2	92.5	100.0	107.5	115.0	130.0	137.5	145.0	160.0	175.0	190.0	220.0	250.0	280.0	310.0
1.18	68.5	76.0	83.5	89.7	97.2	104.7	112.2	127.2	134.7	142.2	157.2	172.2	187.2	217.2	247.2	277.2	307.2
1.18	69.3	76.8	84.3	90.5	98.0	105.5	113.0	128.0	135.5	143.0	158.0	173.0	188.0	218.0	248.0	278.0	308.0
1.19	65.7	73.2	80.7	87.0	94.5	102.0	109.5	124.5	132.0	139.5	154.5	169.5	184.5	214.5	244.5	274.5	304.5
1.20	70.8	78.3	85.8	92.1	99.6	107.1	114.6	129.6	137.1	144.6	159.6	174.6	189.6	219.6	249.6	279.6	309.6
1.22	60.2	67.7	75.2	81.5	89.0	96.5	104.0	119.0	126.5	134.0	149.0	164.0	179.0	209.0	239.0	269.0	299.0
1.22	68.9	76.4	83.9	90.1	97.6	105.1	112.6	127.6	135.1	142.6	157.6	172.6	187.6	217.6	247.6	277.6	307.6
1.22	53.1	60.6	68.1	74.4	81.9	89.4	96.9	111.9	119.4	126.9	141.9	156.9	171.9	201.9	231.9	261.9	291.9
1.23	66.1	73.6	81.1	87.4	94.9	102.4	109.9	124.9	132.4	139.9	154.9	169.9	184.9	214.9	244.9	274.9	304.9
1.24	70.4	77.9	85.4	91.7	99.2	106.7	114.2	129.2	136.7	144.2	159.2	174.2	189.2	219.2	249.2	279.2	309.2
1.24	63.4	70.9	78.4	84.6	92.1	99.6	107.1	122.1	129.6	137.1	152.1	167.1	182.1	212.1	242.1	272.1	302.1
1.27	66.5	74.0	81.5	87.8	95.3	102.8	110.3	125.3	132.8	140.3	155.3	170.3	185.3	215.3	245.3	275.3	305.3
1.28	70.0	77.5	85.0	91.3	98.8	106.3	113.8	128.8	136.3	143.8	158.8	173.8	188.8	218.8	248.8	278.8	308.8
1.28	63.7	71.2	78.7	85.0	92.5	100.0	107.5	122.5	130.0	137.5	152.5	167.5	182.5	212.5	242.5	272.5	302.5
1.32	69.6	77.1	84.6	90.9	98.4	105.9	113.4	128.4	135.9	143.4	158.4	173.4	188.4	218.4	248.4	278.4	308.4
1.32	66.9	74.4	81.9	88.1	95.6	103.1	110.6	125.6	133.1	140.6	155.6	170.6	185.6	215.6	245.6	275.6	305.6
1.32	64.1	71.6	79.1	85.4	92.9	100.4	107.9	122.9	130.4	137.9	152.9	167.9	182.9	212.9	242.9	272.9	302.9
1.36	61.7	69.3	76.8	83.0	90.5	98.0	105.5	120.5	128.0	135.5	150.5	165.5	180.5	210.5	240.5	270.5	300.5
1.36	64.5	72.0	79.5	85.8	93.3	100.8	108.3	123.3	130.8	138.3	153.3	168.3	183.3	213.3	243.3	273.3	303.3
1.37	67.3	74.8	82.3	88.6	96.0	103.5	111.0	126.0	133.5	141.0	156.0	171.0	186.0	216.0	246.0	276.0	306.0
1.40	62.1	69.6	77.1	83.4	90.9	98.4	105.9	120.9	128.4	135.9	150.9	165.9	180.9	210.9	240.9	270.9	300.9
1.41	64.9	72.4	79.9	86.2	93.7	101.2	108.7	123.7	131.2	138.7	153.7	168.7	183.7	213.7	243.7	273.7	303.7
1.45	62.5	70.0	77.5	83.8	91.3	98.8	106.3	121.3	128.8	136.3	151.3	166.3	181.3	211.3	241.3	271.3	301.3
1.46	65.3	72.8	80.3	86.6	94.0	101.6	109.1	124.1	131.6	139.1	154.1	169.1	184.1	214.1	244.1	274.1	304.1
1.48	68.0	75.5	83.0	89.3	96.8	104.3	111.8	126.8	134.3	141.8	156.8	171.8	186.8	216.8	246.8	276.8	306.8
1.48	56.1	63.7	71.2	77.4	85.0	92.5	100.0	115.0	122.5	130.0	145.0	160.0	175.0	205.0	235.0	265.0	295.0
1.49	48.2	55.7	63.2	69.5	77.0	84.5	92.1	107.1	114.6	122.1	137.1	152.1	167.1	197.1	227.1	257.1	287.1
0.93	0.95	0.97	0.98	0.99	1.00	1.01	1.02	1.04	1.05	1.06	1.08	1.09	1.11	1.14	1.16	1.18	1.19

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

D S-L CLASSIC

STOCK DRIVE SELECTIONS

Ratio	Stock Shv. Datum Diam.		1160 RPM Driver		870 RPM Driver		690 RPM Driver		Belt Size/Center Distance					
	Driver	Driven	Driven RPM	HP/Belt D	Driven RPM	HP/Belt D	Driven RPM	HP/Belt D	D120	D128	D144	D158	D162	D173
1.50	14.50	22.00	775	43.24	581	37.14	461	31.75	32.8	36.8	44.8	51.9	53.9	59.4
1.51	13.00	20.00	766	37.16	574	31.65	456	26.99	35.6	39.6	47.6	54.6	56.6	62.1
1.55	14.00	22.00	749	41.38	562	35.42	446	30.24	33.1	37.2	45.2	52.2	54.2	59.8
1.60	13.50	22.00	724	39.44	543	33.65	430	28.71	33.5	37.5	45.6	52.6	54.6	60.1
1.63	12.00	20.00	710	33.00	532	27.99	422	23.85	36.3	40.3	48.4	55.4	57.4	62.9
ARC-LENGTH CORRECTION FACTOR →									0.84	0.85	0.88	0.90	0.91	0.92
1.66	13.00	22.00	698	37.43	524	31.85	415	27.15	33.9	37.9	46.0	53.0	55.0	60.5
1.66	16.00	27.00	698	49.07	523	42.62	415	36.57	27.3	31.4	39.5	46.6	48.6	54.1
1.71	15.50	27.00	677	47.37	507	40.96	403	35.08	27.7	31.8	39.9	46.9	48.9	54.5
1.77	15.00	27.00	656	45.58	492	39.25	390	33.57	28.0	32.1	40.2	47.3	49.3	54.9
1.79	12.00	22.00	647	33.19	485	28.13	385	23.96	34.6	38.6	46.7	53.7	55.7	61.3
1.80	22.00	40.00	646	---	484	60.65	384	53.47	---	---	---	---	32.7	38.4
1.81	18.00	33.00	642	55.62	482	49.29	382	42.58	---	---	32.8	39.9	41.9	47.5
1.83	14.50	27.00	635	43.73	476	37.51	378	32.04	28.4	32.5	40.6	47.7	49.7	55.2
1.89	14.00	27.00	614	41.80	460	35.74	365	30.49	28.7	32.8	40.9	48.0	50.0	55.6
1.96	13.50	27.00	593	39.80	444	33.93	353	28.92	29.1	33.2	41.3	48.4	50.4	56.0
2.02	16.00	33.00	573	49.38	430	42.86	341	36.75	---	25.8	34.1	41.3	43.4	48.9
2.03	13.00	27.00	572	37.74	429	32.09	340	27.34	29.4	33.5	41.7	48.7	50.8	56.3
2.09	15.50	33.00	556	47.64	417	41.16	331	35.24	---	26.1	34.5	41.7	43.7	49.3
2.15	22.00	48.00	539	---	405	60.81	321	53.60	---	---	---	---	---	---
2.15	15.00	33.00	539	45.82	404	39.43	320	33.72	---	26.4	34.8	42.0	44.1	49.7
2.18	18.00	40.00	531	55.84	399	49.45	316	42.71	---	---	---	33.3	35.4	41.1
2.19	12.00	27.00	530	33.43	397	28.31	315	24.10	30.1	34.2	42.4	49.5	51.5	57.0
2.23	14.50	33.00	521	43.94	391	37.67	310	32.17	---	26.8	35.1	42.4	44.4	50.0
2.30	14.00	33.00	504	41.99	378	35.88	300	30.61	---	27.1	35.5	42.7	44.7	50.4
2.38	13.50	33.00	487	39.97	365	34.05	290	29.02	---	27.4	35.8	43.0	45.1	50.7
ARC-LENGTH CORRECTION FACTOR →									0.80	0.82	0.86	0.88	0.89	0.90
2.45	16.00	40.00	474	49.53	356	42.96	282	36.84	---	---	---	34.6	36.7	42.5
2.47	13.00	33.00	470	37.89	352	32.19	279	27.42	23.4	27.7	36.2	43.4	45.4	51.1
2.52	15.50	40.00	460	47.77	345	41.26	274	35.32	---	---	---	34.9	37.1	42.8
2.59	22.00	58.00	447	---	336	60.89	266	53.67	---	---	---	---	---	---
2.60	15.00	40.00	446	45.94	334	39.52	265	33.78	---	---	27.6	35.3	37.4	43.2
2.61	18.00	48.00	444	55.94	333	49.53	264	42.77	---	---	---	---	---	---
2.67	12.00	33.00	435	33.54	326	28.39	259	24.16	24.0	28.4	36.8	44.1	46.1	51.8
2.69	14.50	40.00	431	44.04	324	37.75	257	32.23	---	---	28.0	35.6	37.7	43.5
2.78	14.00	40.00	417	42.08	313	35.95	248	30.66	---	---	28.3	35.9	38.0	43.8
2.88	13.50	40.00	403	40.05	302	34.11	240	29.07	---	---	28.6	36.2	38.4	44.2
ARC-LENGTH CORRECTION FACTOR →									0.79	0.82	0.86	0.88	0.89	0.90
2.93	16.00	48.00	396	49.60	297	43.02	236	36.88	---	---	---	---	---	34.2
2.99	13.00	40.00	389	37.96	291	32.25	231	27.46	---	---	28.9	36.6	38.7	44.5
3.02	15.50	48.00	384	47.83	288	41.31	229	35.36	---	---	---	---	---	34.5
3.12	15.00	48.00	372	46.00	279	39.56	221	33.82	---	---	---	---	---	34.8
3.15	18.00	58.00	368	56.00	276	49.57	219	42.81	---	---	---	---	---	---
3.22	14.50	48.00	360	44.09	270	37.79	214	32.26	---	---	---	---	---	35.1
3.22	12.00	40.00	360	33.59	270	28.43	214	24.20	---	---	29.5	37.2	39.3	45.2
3.33	14.00	48.00	348	42.13	261	35.98	207	30.69	---	---	---	---	---	35.4
3.45	13.50	48.00	337	40.09	252	34.14	200	29.10	---	---	---	---	---	35.7
3.53	16.00	58.00	329	49.64	246	43.05	195	36.90	---	---	---	---	---	---
ARC-LENGTH CORRECTION FACTOR →									---	---	0.75	0.81	0.82	0.85
3.57	13.00	48.00	325	38.00	243	32.28	193	27.49	---	---	---	---	---	36.0
3.64	15.50	58.00	319	47.87	239	41.34	190	35.38	---	---	---	---	---	---
3.76	15.00	58.00	309	46.03	232	39.59	184	33.84	---	---	---	---	---	---
3.86	12.00	48.00	301	33.63	226	28.45	179	24.22	---	---	---	---	30.2	36.6
3.88	14.50	58.00	299	44.13	224	37.81	178	32.28	---	---	---	---	---	---
4.01	14.00	58.00	289	42.16	217	36.00	172	30.71	---	---	---	---	---	---
4.16	13.50	58.00	279	40.12	209	34.17	166	29.11	---	---	---	---	---	---
4.31	13.00	58.00	269	38.02	202	32.30	160	27.50	---	---	---	---	---	---
4.65	12.00	58.00	249	33.65	187	28.47	148	24.23	---	---	---	---	---	---
ARC-LENGTH CORRECTION FACTOR →									---	---	---	---	0.74	0.77

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

D S-L CLASSIC

STOCK DRIVE SELECTIONS

Ratio	Belt Size/Center Distance																
	D180	D195	D210	D225	D240	D255	D270	D300	D315	D330	D360	D390	D420	D480	D540	D600	D660
1.50	62.9	70.4	77.9	84.9	91.7	99.2	106.7	121.7	129.2	136.7	151.7	166.7	181.7	211.7	241.7	271.7	301.7
1.51	65.7	73.2	80.7	86.9	94.4	101.9	109.4	124.4	131.9	139.5	154.5	169.5	184.5	214.5	244.5	274.5	304.5
1.55	63.3	70.8	78.3	84.5	92.1	99.6	107.1	122.1	129.6	137.1	152.1	167.1	182.1	212.1	242.1	272.1	302.1
1.60	63.6	71.2	78.7	84.9	92.4	99.9	107.4	122.5	130.0	137.5	152.5	167.5	182.5	212.5	242.5	272.5	302.5
1.63	66.4	73.9	81.4	87.7	95.2	102.7	110.2	125.2	132.7	140.2	155.2	170.2	185.2	215.2	245.2	275.2	305.2
	0.93	0.95	0.96	0.98	0.99	1.00	1.02	1.04	1.05	1.06	1.08	1.09	1.11	1.14	1.16	1.18	1.19
1.66	64.0	71.5	79.0	85.3	92.8	100.3	107.8	122.8	130.3	137.9	152.9	167.9	182.9	212.9	242.9	272.9	302.9
1.66	57.6	65.2	72.7	79.0	86.5	94.0	101.5	116.5	124.0	131.5	146.5	161.6	176.6	206.6	236.6	266.6	296.6
1.71	58.0	65.5	73.1	79.3	86.8	94.4	101.9	116.9	124.4	131.9	146.9	161.9	176.9	207.0	237.0	267.0	297.0
1.77	58.4	65.9	73.4	79.7	87.2	94.7	102.3	117.3	124.8	132.3	147.3	162.3	177.3	207.3	237.3	267.3	297.3
1.79	64.8	72.3	79.8	86.1	93.6	101.1	108.6	123.6	131.1	138.6	153.6	168.6	183.6	213.7	243.7	273.7	303.7
1.80	42.0	49.7	57.3	63.6	71.2	78.7	86.3	101.3	108.9	116.4	131.4	146.5	161.5	191.5	221.5	251.6	281.6
1.81	51.1	58.6	66.2	72.5	80.0	87.5	95.1	110.1	117.6	125.1	140.2	155.2	170.2	200.2	230.2	260.3	290.3
1.83	58.7	66.3	73.8	80.1	87.6	95.1	102.6	117.7	125.2	132.7	147.7	162.7	177.7	207.7	237.7	267.7	297.8
1.89	59.1	66.6	74.2	80.5	88.0	95.5	103.0	118.0	125.5	133.1	148.1	163.1	178.1	208.1	238.1	268.1	298.1
1.96	59.5	67.0	74.6	80.8	88.3	95.9	103.4	118.4	125.9	133.4	148.5	163.5	178.5	208.5	238.5	268.5	298.5
2.02	52.5	60.1	67.7	73.9	81.5	89.0	96.6	111.6	119.1	126.6	141.7	156.7	171.7	201.8	231.8	261.8	291.8
2.03	59.8	67.4	74.9	81.2	88.7	96.2	103.8	118.8	126.3	133.8	148.8	163.9	178.9	208.9	238.9	268.9	298.9
2.09	52.9	60.4	68.0	74.3	81.9	89.4	96.9	112.0	119.5	127.0	142.1	157.1	172.1	202.1	232.2	262.2	292.2
2.15	---	42.2	50.0	56.5	64.1	71.8	79.4	94.6	102.1	109.7	124.8	139.8	154.9	185.0	215.1	245.1	275.1
2.15	53.2	60.8	68.4	74.7	82.2	89.8	97.3	112.4	119.9	127.4	142.4	157.5	172.5	202.5	232.5	262.6	292.6
2.18	44.8	52.5	60.1	66.5	74.1	81.6	89.2	104.3	111.8	119.4	134.4	149.5	164.5	194.6	224.6	254.6	284.7
2.19	60.6	68.1	75.7	81.9	89.5	97.0	104.5	119.5	127.1	134.6	149.6	164.6	179.6	209.7	239.7	269.7	299.7
2.23	53.6	61.2	68.7	75.0	82.6	90.1	97.7	112.7	120.3	127.8	142.8	157.8	172.9	202.9	232.9	262.9	293.0
2.30	53.9	61.5	69.1	75.4	83.0	90.5	98.0	113.1	120.6	128.2	143.2	158.2	173.2	203.3	233.3	263.3	293.4
2.38	54.3	61.9	69.5	75.8	83.3	90.9	98.4	113.5	121.0	128.5	143.6	158.6	173.6	203.7	233.7	263.7	293.7
	0.91	0.93	0.95	0.96	0.98	0.99	1.00	1.03	1.04	1.05	1.07	1.09	1.10	1.13	1.16	1.18	1.19
2.45	46.1	53.9	61.5	67.9	75.5	83.1	90.6	105.8	113.3	120.8	135.9	151.0	166.0	196.1	226.1	256.2	286.2
2.47	54.6	62.2	69.8	76.1	83.7	91.2	98.8	113.9	121.4	128.9	143.9	159.0	174.0	204.0	234.1	264.1	294.1
2.52	46.5	54.2	61.9	68.2	75.8	83.4	91.0	106.1	113.7	121.2	136.3	151.3	166.4	196.5	226.5	256.5	286.6
2.59	---	---	---	46.6	54.6	62.5	70.3	85.7	93.4	101.0	116.2	131.4	146.5	176.7	206.8	236.9	267.0
2.60	46.8	54.5	62.2	68.6	76.2	83.8	91.4	106.5	114.0	121.6	136.7	151.7	166.8	196.9	226.9	256.9	287.0
2.61	36.8	44.8	52.7	59.2	66.9	74.6	82.2	97.4	105.0	112.6	127.7	142.8	157.9	188.0	218.1	248.1	278.2
2.67	55.3	62.9	70.5	76.9	84.4	92.0	99.5	114.6	122.1	129.6	144.7	159.7	174.8	204.8	234.8	264.9	294.9
2.69	47.1	54.9	62.6	68.9	76.6	84.2	91.7	106.9	114.4	122.0	137.0	152.1	167.1	197.2	227.3	257.3	287.3
2.78	47.5	55.2	62.9	69.3	76.9	84.5	92.1	107.2	114.8	122.3	137.4	152.5	167.5	197.6	227.6	257.7	287.7
2.88	47.8	55.6	63.3	69.6	77.3	84.9	92.5	107.6	115.1	122.7	137.8	152.8	167.9	198.0	228.0	258.1	288.1
	0.91	0.93	0.95	0.96	0.98	0.99	1.00	1.03	1.04	1.05	1.07	1.09	1.10	1.13	1.16	1.18	1.19
2.93	38.0	46.1	54.0	60.5	68.3	76.0	83.6	98.9	106.5	114.0	129.2	144.3	159.4	189.5	219.6	249.6	279.7
2.99	48.2	55.9	63.6	70.0	77.6	85.2	92.8	108.0	115.5	123.1	138.1	153.2	168.3	198.3	228.4	258.4	288.5
3.02	38.4	46.5	54.4	60.9	68.6	76.3	84.0	99.2	106.8	114.4	129.5	144.6	159.7	189.9	220.0	250.0	280.1
3.12	38.7	46.8	54.7	61.2	69.0	76.7	84.3	99.6	107.2	114.8	129.9	145.0	160.1	190.2	220.3	250.4	280.5
3.15	---	---	42.3	49.2	57.2	65.2	73.0	88.5	96.2	103.8	119.1	134.3	149.4	179.6	209.8	239.9	270.0
3.22	39.0	47.1	55.0	61.6	69.3	77.0	84.7	99.9	107.5	115.1	130.3	145.4	160.5	190.6	220.7	250.8	280.8
3.22	48.8	56.6	64.3	70.7	78.3	85.9	93.5	108.7	116.2	123.8	138.9	153.9	169.0	199.1	229.2	259.2	289.2
3.33	39.3	47.4	55.4	61.9	69.7	77.4	85.0	100.3	107.9	115.5	130.6	145.7	160.8	191.0	221.1	251.2	281.2
3.45	39.6	47.8	55.7	62.2	70.0	77.7	85.4	100.6	108.2	115.8	131.0	146.1	161.2	191.3	221.5	251.5	281.6
3.53	---	---	43.5	50.4	58.5	66.5	74.3	89.9	97.5	105.2	120.5	135.7	150.8	181.1	211.3	241.4	271.5
	0.86	0.89	0.91	0.93	0.95	0.97	0.98	1.01	1.02	1.03	1.05	1.07	1.09	1.12	1.15	1.17	1.18
3.57	39.9	48.1	56.0	62.6	70.3	78.1	85.7	101.0	108.6	116.2	131.3	146.5	161.6	191.7	221.8	251.9	282.0
3.64	---	---	43.8	50.8	58.9	66.8	74.7	90.2	97.9	105.6	120.8	136.0	151.2	181.5	211.6	241.8	271.9
3.76	---	---	44.1	51.1	59.2	67.2	75.0	90.5	98.2	105.9	121.2	136.4	151.6	181.8	212.0	242.1	272.2
3.86	40.6	48.7	56.7	63.2	71.0	78.7	86.4	101.7	109.3	116.9	132.1	147.2	162.3	192.5	222.6	252.7	282.7
3.88	---	---	44.4	51.4	59.5	67.5	75.3	90.9	98.6	106.3	121.5	136.8	151.9	182.2	212.4	242.5	272.6
4.01	---	---	44.7	51.7	59.8	67.8	75.7	91.2	98.9	106.6	121.9	137.1	152.3	182.6	212.7	242.9	273.0
4.16	---	36.2	45.0	52.0	60.2	68.1	76.0	91.6	99.3	107.0	122.2	137.5	152.7	182.9	213.1	243.3	273.4
4.31	---	36.5	45.3	52.3	60.5	68.5	76.3	91.9	99.6	107.3	122.6	137.8	153.0	183.3	213.5	243.6	273.7
4.65	---	37.1	45.9	53.0	61.1	69.1	77.0	92.6	100.3	108.0	123.3	138.5	153.7	184.0	214.2	244.4	274.5
	0.80	0.85	0.88	0.90	0.93	0.95	0.96	0.99	1.00	1.02	1.04	1.06	1.08	1.11	1.14	1.16	1.17

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

A	S-L CLASSIC
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AX	CLASSIC COG
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Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.																							
	2.2		2.6		3.0		3.2		3.4		3.6		3.8		4.0		4.2		4.6		4.8		5.0	
	AX	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX
870	1.02	1.40	1.31	1.78	1.51	1.96	1.71	2.14	1.91	2.32	2.10	2.50	2.30	2.68	2.49	2.86	2.87	3.20	3.06	3.38	3.25	3.55		
1160	1.22	1.70	1.62	2.18	1.87	2.41	2.13	2.64	2.38	2.87	2.63	3.10	2.88	3.32	3.13	3.55	3.62	3.98	3.85	4.20	4.10	4.42		
1750	1.52	2.21	2.13	2.87	2.50	3.20	2.86	3.52	3.21	3.83	3.57	4.15	3.92	4.46	4.26	4.77	4.94	5.37	5.28	5.67	5.61	5.96		
3500	1.97	3.14	3.02	4.26	3.63	4.80	4.22	5.34	4.80	5.86	5.36	6.37	5.91	6.88	6.44	7.37	7.44	8.32	7.92	8.78	8.38	9.23		
100	0.21	0.27	0.23	0.33	0.26	0.36	0.29	0.38	0.32	0.41	0.35	0.44	0.37	0.47	0.40	0.50	0.46	0.55	0.46	0.58	0.51	0.61		
200	0.36	0.47	0.42	0.57	0.47	0.63	0.52	0.68	0.57	0.73	0.63	0.78	0.68	0.83	0.73	0.88	0.83	0.99	0.88	1.04	0.93	1.09		
300	0.49	0.64	0.58	0.79	0.65	0.87	0.73	0.94	0.81	1.02	0.88	1.09	0.96	1.16	1.03	1.23	1.18	1.38	1.25	1.45	1.33	1.52		
400	0.60	0.80	0.72	0.99	0.82	1.09	0.92	1.18	1.02	1.28	1.12	1.37	1.22	1.46	1.31	1.56	1.50	1.74	1.60	1.83	1.70	1.92		
500	0.70	0.94	0.86	1.18	0.98	1.29	1.10	1.41	1.22	1.52	1.34	1.63	1.46	1.75	1.58	1.86	1.82	2.08	1.93	2.19	2.05	2.29		
600	0.80	1.08	0.99	1.35	1.14	1.49	1.28	1.62	1.42	1.75	1.56	1.88	1.70	2.01	1.84	2.14	2.11	2.40	2.25	2.53	2.39	2.65		
700	0.88	1.20	1.12	1.52	1.28	1.67	1.44	1.82	1.61	1.97	1.77	2.12	1.93	2.27	2.09	2.42	2.40	2.71	2.56	2.85	2.72	3.00		
800	0.97	1.32	1.23	1.67	1.42	1.84	1.60	2.01	1.78	2.18	1.97	2.35	2.15	2.52	2.33	2.68	2.68	3.00	2.86	3.17	3.03	3.32		
900	1.04	1.44	1.35	1.82	1.55	2.01	1.75	2.20	1.96	2.38	2.16	2.57	2.36	2.75	2.56	2.93	2.95	3.29	3.15	3.47	3.34	3.64		
1000	1.11	1.54	1.45	1.96	1.68	2.17	1.90	2.37	2.12	2.58	2.34	2.78	2.56	2.98	2.78	3.17	3.21	3.56	3.43	3.76	3.64	3.95		
1100	1.18	1.64	1.56	2.10	1.80	2.32	2.04	2.54	2.29	2.76	2.52	2.98	2.76	3.20	3.00	3.41	3.47	3.83	3.70	4.04	3.93	4.24		
1200	1.24	1.74	1.66	2.23	1.92	2.47	2.18	2.71	2.44	2.94	2.70	3.18	2.96	3.41	3.21	3.64	3.71	4.09	3.96	4.31	4.21	4.53		
1300	1.30	1.83	1.75	2.36	2.03	2.61	2.31	2.87	2.59	3.12	2.87	3.37	3.14	3.61	3.41	3.86	3.95	4.34	4.22	4.57	4.48	4.81		
1400	1.35	1.92	1.84	2.46	2.14	2.75	2.44	3.02	2.74	3.29	3.03	3.55	3.32	3.81	3.61	4.07	4.18	4.58	4.47	4.83	4.75	5.08		
1500	1.41	2.01	1.93	2.59	2.25	2.88	2.57	3.17	2.88	3.45	3.19	3.73	3.50	4.00	3.81	4.28	4.41	4.81	4.71	5.08	5.00	5.34		
1600	1.46	2.09	2.01	2.71	2.35	3.01	2.69	3.31	3.02	3.61	3.35	3.90	3.67	4.19	3.99	4.48	4.63	5.04	4.94	5.32	5.25	5.59		
1700	1.50	2.17	2.09	2.82	2.45	3.13	2.80	3.45	3.15	3.76	3.49	4.07	3.84	4.37	4.17	4.67	4.84	5.26	5.17	5.55	5.49	5.84		
1800	1.55	2.24	2.17	2.92	2.54	3.26	2.91	3.58	3.28	3.91	3.64	4.23	4.00	4.55	4.35	4.86	5.05	5.46	5.39	5.78	5.73	6.08		
1900	1.59	2.32	2.25	3.02	2.64	3.37	3.02	3.71	3.40	4.05	3.78	4.39	4.15	4.72	4.52	5.05	5.24	5.69	5.60	6.00	5.95	6.32		
2000	1.63	2.38	2.32	3.12	2.72	3.48	3.13	3.84	3.52	4.19	3.91	4.54	4.30	4.88	4.68	5.22	5.44	5.89	5.81	6.22	6.17	6.54		
2100	1.66	2.45	2.39	3.22	2.81	3.59	3.23	3.96	3.64	4.33	4.04	4.69	4.45	5.05	4.84	5.40	5.62	6.09	6.00	6.43	6.38	6.76		
2200	1.70	2.52	2.45	3.31	2.89	3.70	3.32	4.08	3.75	4.46	4.17	4.84	4.59	5.20	5.00	5.57	5.80	6.28	6.19	6.63	6.58	6.98		
2300	1.73	2.58	2.51	3.40	2.97	3.80	3.41	4.20	3.86	4.59	4.29	4.98	4.72	5.36	5.14	5.73	5.97	6.47	6.37	6.83	6.77	7.19		
2400	1.76	2.64	2.57	3.49	3.04	3.90	3.50	4.31	3.96	4.71	4.41	5.11	4.85	5.51	5.28	5.89	6.13	6.65	6.55	7.02	6.96	7.39		
2500	1.79	2.69	2.63	3.57	3.11	4.00	3.59	4.42	4.06	4.84	4.52	5.25	4.97	5.65	5.42	6.05	6.29	6.83	6.72	7.21	7.13	7.59		
2600	1.81	2.75	2.68	3.65	3.18	4.09	3.67	4.53	4.15	4.95	4.63	5.38	5.09	5.79	5.55	6.20	6.44	7.00	6.87	7.39	7.30	7.78		
2700	1.84	2.80	2.73	3.73	3.24	4.18	3.75	4.63	4.24	5.07	4.73	5.50	5.20	5.93	5.67	6.35	6.58	7.17	7.02	7.57	7.46	7.96		
2800	1.86	2.85	2.78	3.80	3.30	4.27	3.82	4.73	4.33	5.18	4.82	5.62	5.31	6.06	5.79	6.49	6.72	7.33	7.17	7.74	7.61	8.14		
2900	1.88	2.90	2.82	3.88	3.36	4.35	3.89	4.82	4.41	5.29	4.92	5.74	5.41	6.19	5.90	6.63	6.85	7.49	7.30	7.90	7.74	8.32		
3000	1.90	2.94	2.86	3.95	3.41	4.44	3.95	4.92	4.48	5.39	5.00	5.85	5.51	6.31	6.01	6.76	6.97	7.64	7.43	8.06	7.87	8.48		
3100	1.92	2.98	2.90	4.01	3.46	4.51	4.02	5.01	4.56	5.49	5.09	5.97	5.60	6.43	6.11	6.89	7.08	7.78	7.54	8.22	8.00	8.64		
3200	1.93	3.03	2.94	4.08	3.51	4.59	4.07	5.09	4.62	5.59	5.16	6.07	5.69	6.55	6.20	7.02	7.18	7.93	7.65	8.37	8.11	8.80		
3300	1.95	3.06	2.97	4.14	3.55	4.66	4.13	5.18	4.69	5.68	5.23	6.18	5.77	6.66	6.28	7.14	7.28	8.06	7.75	8.51	8.21	8.95		
3400	1.96	3.10	3.00	4.20	3.59	4.74	4.18	5.26	4.75	5.77	5.30	6.28	5.84	6.77	6.36	7.25	7.36	8.19	7.84	8.65	8.30	9.10		
3500	1.97	3.14	3.02	4.26	3.63	4.80	4.22	5.34	4.80	5.86	5.36	6.37	5.91	6.88	6.44	7.37	7.44	8.32	7.92	8.78	8.38	9.23		
3600	1.98	3.17	3.04	4.31	3.56	4.87	4.26	5.41	4.85	5.94	5.42	6.47	5.97	6.98	6.50	7.48	7.51	8.44	7.99	8.91	8.45	9.37		
3700	1.99	3.20	3.06	4.37	3.59	4.93	4.30	5.49	4.89	6.03	5.47	6.56	6.02	7.07	6.56	7.58	7.57	8.56	8.05	9.03	8.50	9.50		
3800	1.99	3.23	3.08	4.42	3.71	4.99	4.33	5.55	4.93	6.10	5.51	6.64	6.07	7.17	6.61	7.68	7.63	8.67	8.10	9.15	8.55	9.62		
3900	2.00	3.26	3.09	4.47	3.74	5.05	4.36	5.62	4.97	6.18	5.55	6.73	6.11	7.26	6.65	7.78	7.67	8.78	8.14	9.26	8.59	9.73		
4000	2.00	3.29	3.10	4.51	3.75	5.11	4.38	5.69	4.99	6.25	5.58	6.81	6.15	7.34	6.69	7.87	7.70	8.88	8.17	9.37	8.61	9.84		

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

A S-L CLASSIC

AX CLASSIC COG

Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.														Add'l HP/Belt for Speed Ratio of:								
	5.2		5.6		5.8		6.0		6.4		6.6		7.0		1.02	1.05	1.09	1.13	1.19	1.25	1.35	1.52	2.00
	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	A	AX	1.04	1.08	1.12	1.18	1.24	1.34	1.51	1.99	& up
870	3.44	3.72	3.81	4.05	3.99	4.22	4.18	4.38	4.54	4.71	4.72	4.87	5.08	5.19	0.03	0.05	0.08	0.10	0.13	0.15	0.16	0.20	0.23
1160	4.34	4.63	4.81	5.05	5.04	5.26	5.28	5.47	5.74	5.87	5.96	6.08	6.42	6.48	0.03	0.06	0.10	0.13	0.17	0.20	0.21	0.26	0.29
1750	5.94	6.25	6.59	6.83	6.90	7.11	7.22	7.39	7.84	7.94	8.14	8.21	8.73	8.75	0.04	0.09	0.15	0.20	0.26	0.30	0.35	0.40	0.44
3500	8.82	9.68	9.64	10.53	10.02	10.94	10.38	11.34	11.03	12.10	11.32	12.47	---	---	0.08	0.19	0.31	0.41	0.52	0.60	0.70	0.79	0.87
100	0.54	0.63	0.59	0.69	0.62	0.71	0.64	0.74	0.70	0.79	0.72	0.82	0.78	0.87	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
200	0.98	1.13	1.09	1.23	1.14	1.28	1.19	1.33	1.29	1.43	1.34	1.47	1.43	1.57	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05
300	1.40	1.59	1.54	1.73	1.62	1.79	1.69	1.86	1.83	2.00	1.90	2.07	2.05	2.20	0.01	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.06
400	1.79	2.01	1.98	2.18	2.07	2.27	2.17	2.36	2.35	2.53	2.44	2.62	2.63	2.79	0.01	0.02	0.03	0.04	0.06	0.07	0.08	0.09	0.09
500	2.16	2.40	2.39	2.62	2.51	2.72	2.62	2.83	2.85	3.03	2.96	3.14	3.18	3.34	0.01	0.03	0.04	0.06	0.07	0.08	0.10	0.11	0.12
600	2.52	2.78	2.79	3.03	2.93	3.15	3.06	3.27	3.33	3.51	3.46	3.63	3.72	3.87	0.01	0.03	0.05	0.07	0.09	0.10	0.12	0.13	0.15
700	2.87	3.14	3.18	3.42	3.33	3.56	3.49	3.70	3.79	3.97	3.94	4.11	4.24	4.38	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.17
800	3.21	3.48	3.55	3.80	3.73	3.95	3.90	4.11	4.24	4.41	4.41	4.56	4.74	4.86	0.02	0.04	0.07	0.09	0.12	0.14	0.16	0.18	0.20
900	3.53	3.82	3.92	4.16	4.11	4.33	4.30	4.50	4.67	4.84	4.86	5.00	5.23	5.33	0.02	0.05	0.08	0.10	0.13	0.15	0.18	0.20	0.22
1000	3.85	4.14	4.27	4.51	4.48	4.70	4.68	4.88	5.09	5.25	5.29	5.43	5.70	5.78	0.02	0.05	0.09	0.11	0.15	0.17	0.20	0.22	0.25
1100	4.16	4.45	4.61	4.85	4.83	5.05	5.06	5.25	5.50	5.64	5.72	5.84	6.15	6.22	0.02	0.06	0.09	0.13	0.16	0.19	0.22	0.25	0.27
1200	4.45	4.75	4.94	5.18	5.18	5.40	5.42	5.61	5.89	6.03	6.13	6.23	6.59	6.64	0.03	0.06	0.10	0.14	0.18	0.21	0.24	0.27	0.29
1300	4.74	5.04	5.26	5.50	5.52	5.73	5.77	5.95	6.27	6.40	6.52	6.62	7.01	7.05	0.03	0.07	0.11	0.15	0.19	0.22	0.26	0.29	0.32
1400	5.02	5.32	5.57	5.81	5.84	6.05	6.11	6.29	6.64	6.76	6.91	6.99	7.42	7.45	0.03	0.07	0.12	0.16	0.21	0.24	0.28	0.31	0.35
1500	5.30	5.60	5.88	6.11	6.16	6.37	6.44	6.62	7.00	7.11	7.28	7.35	7.82	7.84	0.03	0.08	0.13	0.17	0.22	0.26	0.30	0.33	0.37
1600	5.56	5.87	6.17	6.40	6.47	6.67	6.76	6.93	7.34	7.45	7.63	7.71	8.20	8.21	0.04	0.08	0.14	0.19	0.24	0.27	0.32	0.36	0.40
1700	5.82	6.13	6.45	6.69	6.76	6.97	7.07	7.24	7.68	7.78	7.97	8.05	8.56	8.57	0.04	0.09	0.15	0.20	0.25	0.29	0.34	0.38	0.42
1800	6.06	6.38	6.72	6.96	7.04	7.25	7.36	7.54	7.99	8.10	8.30	8.38	8.90	8.92	0.04	0.09	0.16	0.21	0.27	0.31	0.36	0.41	0.45
1900	6.30	6.62	6.98	7.23	7.32	7.53	7.65	7.83	8.30	8.41	8.61	8.70	9.23	9.26	0.04	0.10	0.17	0.22	0.28	0.32	0.38	0.43	0.47
2000	6.53	6.86	7.23	7.49	7.58	7.80	7.92	8.11	8.59	8.71	8.91	9.01	9.55	9.59	0.05	0.11	0.18	0.23	0.29	0.34	0.40	0.45	0.49
2100	6.75	7.10	7.48	7.75	7.83	8.07	8.18	8.38	8.86	9.00	9.19	9.31	9.84	9.90	0.05	0.11	0.19	0.24	0.31	0.36	0.42	0.47	0.52
2200	6.96	7.32	7.71	7.99	8.07	8.32	8.43	8.65	9.12	9.28	9.46	9.60	10.12	10.21	0.05	0.12	0.20	0.26	0.32	0.38	0.44	0.49	0.55
2300	7.16	7.54	7.93	8.23	8.30	8.57	8.66	8.90	9.37	9.56	9.71	9.88	10.38	10.50	0.05	0.12	0.21	0.27	0.34	0.40	0.46	0.51	0.57
2400	7.36	7.75	8.14	8.46	8.51	8.81	8.88	9.15	9.60	9.82	9.95	10.15	10.62	10.79	0.05	0.13	0.21	0.28	0.36	0.42	0.46	0.54	0.60
2500	7.54	7.96	8.33	8.68	8.72	9.04	9.09	9.39	9.82	10.07	10.17	10.41	10.83	11.06	0.05	0.13	0.22	0.29	0.37	0.43	0.49	0.56	0.62
2600	7.71	8.16	8.52	8.90	8.91	9.26	9.29	9.62	10.02	10.32	10.37	10.56	11.03	11.32	0.06	0.14	0.23	0.30	0.39	0.45	0.51	0.58	0.65
2700	7.88	8.35	8.69	9.11	9.09	9.48	9.47	9.84	10.20	10.55	10.55	10.90	11.21	11.57	0.06	0.14	0.24	0.31	0.40	0.46	0.53	0.61	0.67
2800	8.03	8.54	8.86	9.31	9.25	9.69	9.63	10.06	10.37	10.78	10.71	11.13	11.37	11.81	0.06	0.15	0.25	0.32	0.42	0.46	0.56	0.63	0.69
2900	8.18	8.72	9.01	9.51	9.40	9.89	9.79	10.27	10.52	11.00	10.86	11.35	11.51	12.04	0.06	0.16	0.26	0.33	0.43	0.48	0.58	0.65	0.71
3000	8.31	8.89	9.14	9.69	9.54	10.08	9.92	10.47	10.65	11.21	10.99	11.57	11.62	12.26	0.07	0.16	0.27	0.35	0.45	0.51	0.60	0.67	0.74
3100	8.43	9.06	9.27	9.88	9.67	10.27	10.05	10.66	10.76	11.40	11.10	11.77	11.71	12.47	0.07	0.17	0.27	0.36	0.47	0.53	0.62	0.69	0.77
3200	8.55	9.23	9.38	10.05	9.78	10.45	10.15	10.84	10.86	11.59	11.18	11.96	11.78	12.66	0.07	0.17	0.28	0.37	0.48	0.55	0.64	0.72	0.80
3300	8.65	9.38	9.38	10.22	9.87	10.62	10.24	11.01	10.93	11.77	11.25	12.14	11.83	12.84	0.07	0.18	0.27	0.38	0.49	0.57	0.66	0.74	0.82
3400	8.74	9.53	9.57	10.38	9.95	10.78	10.32	11.18	10.99	10.94	11.30	12.31	11.85	13.02	0.08	0.19	0.30	0.40	0.50	0.59	0.68	0.76	0.84
3500	8.82	9.68	9.64	10.53	10.02	10.94	10.38	11.34	11.03	12.10	11.32	12.47	---	---	0.08	0.20	0.31	0.41	0.51	0.60	0.70	0.79	0.86
3600	8.88	9.81	9.69	10.67	10.07	11.08	10.42	11.49	11.05	12.26	11.33	12.62	---	---	0.08	0.20	0.32	0.42	0.53	0.62	0.72	0.81	0.89
3700	8.94	9.94	9.74	10.81	10.10	11.22	10.44	11.63	11.04	12.40	---	---	---	---	0.08	0.21	0.33	0.43	0.55	0.64	0.74	0.83	0.91
3800	8.98	10.07	9.76	10.94	10.12	11.36	10.45	11.76	---	---	---	---	---	---	0.09	0.21	0.34	0.44	0.56	0.66	0.76	0.85	0.94
3900	9.01	10.19	9.78	11.06	10.12	11.48	10.43	11.88	---	---	---	---	---	---	0.09	0.22	0.35	0.45	0.58	0.67	0.78	0.87	0.97
4000	9.03	10.30	9.77	11.18	10.10	11.60	---	---	---	---	---	---	---	---	0.09	0.22	0.35	0.47	0.60	0.69	0.80	0.90	1.00

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

B

S-L CLASSIC

BX

CLASSIC COG

Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.																			
	3.4		3.6		3.8		4.0		4.2		4.4		4.6		5.0		5.4		5.6	
	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX
870	1.42	3.01	1.73	3.27	2.04	3.53	2.35	3.79	2.66	4.04	2.96	4.30	3.27	4.55	3.87	5.04	4.47	5.78	4.76	5.78
1160	1.65	3.72	2.05	4.06	2.45	4.38	2.84	4.71	3.24	5.03	3.63	5.35	4.02	5.67	4.78	6.29	5.54	6.91	5.92	7.21
1750	1.92	4.96	2.48	5.42	3.05	5.87	3.60	6.32	4.15	6.76	4.70	7.20	5.23	7.63	6.30	8.47	7.33	9.29	7.84	9.69
3500	1.37	7.27	2.27	7.96	3.16	8.64	4.01	9.28	4.84	9.91	5.64	10.51	6.41	11.08	7.87	12.14	92.0	13.10	9.82	13.53
100	0.31	0.53	0.36	0.56	0.40	0.60	0.44	0.64	0.49	0.68	0.53	0.72	0.57	0.76	0.56	0.84	0.75	0.91	0.79	0.95
200	0.53	0.94	0.61	1.01	0.70	1.08	0.78	1.16	0.86	1.23	0.94	1.30	1.02	1.37	1.19	1.51	1.35	1.65	1.43	1.72
300	0.71	1.30	0.83	1.41	0.95	1.51	1.07	1.62	1.19	1.72	1.31	1.82	1.43	1.92	1.66	2.13	1.89	2.33	2.01	2.42
400	0.87	1.64	1.03	1.78	1.18	1.91	1.34	2.05	1.49	2.18	1.64	2.31	1.80	2.44	2.10	2.70	2.40	2.95	2.55	3.08
500	1.01	1.96	1.20	2.13	1.39	2.29	1.58	2.45	1.77	2.61	1.96	2.77	2.14	2.93	2.51	3.24	2.88	3.55	3.06	3.70
600	1.14	2.26	1.36	2.45	1.59	2.64	1.81	2.83	2.03	3.02	2.25	3.20	2.47	3.39	2.90	3.75	3.33	4.11	3.55	4.29
700	1.25	2.55	1.51	2.77	1.76	2.98	2.02	3.20	2.27	3.41	2.53	3.62	2.78	3.83	3.28	4.25	3.77	4.66	4.01	4.86
800	1.35	2.82	1.64	3.07	1.93	3.31	2.22	3.55	2.50	3.79	2.79	4.02	3.07	4.26	3.63	4.72	4.18	5.18	4.46	5.41
900	1.45	3.09	1.77	3.36	2.09	3.62	2.41	3.89	2.72	4.15	3.04	4.41	3.35	4.67	3.97	5.18	4.58	5.68	4.89	5.93
1000	1.53	3.34	1.88	3.63	2.23	3.92	2.58	4.21	2.93	4.50	3.27	4.78	3.62	5.06	4.29	5.62	4.96	6.17	5.30	6.44
1100	1.61	3.58	1.99	3.90	2.37	4.21	2.75	4.53	3.12	4.84	3.50	5.14	3.87	5.44	4.60	6.04	5.33	6.63	5.69	6.92
1200	1.67	3.82	2.09	4.16	2.50	4.50	2.90	4.83	3.31	5.16	3.71	5.49	4.11	5.81	4.90	6.45	5.68	7.08	6.07	7.40
1300	1.73	4.04	2.18	4.41	2.62	4.77	3.05	5.12	3.48	5.47	3.91	5.82	4.34	6.17	5.18	6.85	6.02	7.52	6.43	7.85
1400	1.79	4.26	2.26	4.65	2.73	5.03	3.19	5.40	3.65	5.78	4.11	6.15	4.56	6.51	5.45	7.23	6.33	7.94	6.77	8.29
1500	1.83	4.47	2.33	4.88	2.83	5.28	3.32	5.68	3.80	6.07	4.29	6.46	4.77	6.85	5.71	7.60	6.64	8.34	7.10	8.71
1600	1.87	4.67	2.40	5.10	2.92	5.52	3.44	5.94	3.95	6.35	4.46	6.76	4.96	7.17	5.95	7.96	6.93	8.73	7.41	9.11
1700	1.90	4.87	2.46	5.32	3.01	5.76	3.55	6.20	4.09	6.63	4.62	7.05	5.15	7.48	6.19	8.30	7.20	9.11	7.70	9.50
1800	1.93	5.06	2.51	5.53	3.08	5.99	3.65	6.44	4.21	6.89	4.77	7.34	5.32	7.77	6.40	8.63	7.46	9.46	7.98	9.87
1900	1.95	5.24	2.55	5.73	3.15	6.21	3.74	6.68	4.33	7.15	4.91	7.61	5.48	8.06	6.61	8.95	7.70	9.81	8.24	10.23
2000	1.96	5.42	2.59	5.92	3.21	6.42	3.83	6.91	4.44	7.39	5.04	7.87	5.63	8.34	6.80	9.25	7.93	10.14	8.49	10.57
2100	1.97	5.58	2.62	6.11	3.27	6.62	3.91	7.13	4.54	7.63	5.16	8.12	5.77	8.60	6.97	9.54	8.14	10.45	8.71	10.89
2200	1.97	5.75	2.65	6.29	3.31	6.82	3.97	7.34	4.63	7.85	5.27	8.36	5.90	8.85	7.14	9.82	8.34	10.75	8.92	11.20
2300	1.96	5.90	2.66	6.46	3.35	7.00	4.03	7.54	4.70	8.07	5.36	8.59	6.02	9.09	7.29	10.08	8.51	11.03	9.11	11.49
2400	1.95	6.05	2.67	6.62	3.38	7.18	4.08	7.74	4.77	8.28	5.45	8.81	6.12	9.33	7.42	10.33	8.67	11.29	9.28	11.76
2500	1.93	6.19	2.67	6.78	3.40	7.36	4.12	7.92	4.83	8.47	5.53	9.02	6.21	9.54	7.54	10.57	8.82	11.54	9.44	12.01
2600	1.90	6.33	2.67	6.93	3.42	7.52	4.16	8.10	4.88	8.66	5.59	9.21	6.29	9.75	7.65	10.79	8.94	11.78	9.57	12.25
2700	1.87	6.46	2.65	7.08	3.42	7.68	4.18	8.27	4.92	8.84	5.65	9.40	6.36	9.95	7.74	11.00	9.05	11.99	9.68	12.47
2800	1.83	6.58	2.63	7.21	3.42	7.83	4.19	8.42	4.95	9.01	5.69	9.58	6.41	10.13	7.81	11.20	9.14	12.19	9.78	12.67
2900	1.78	6.70	2.60	7.34	3.41	7.97	4.20	8.57	4.97	9.17	5.72	9.74	6.45	10.30	7.87	11.38	9.21	12.38	9.85	12.85
3000	1.73	6.81	2.57	7.46	3.39	8.10	4.19	8.72	4.97	9.32	5.74	9.90	6.48	10.46	7.91	11.54	9.26	12.54	9.90	13.02
3100	1.67	6.92	2.53	7.58	3.36	8.22	4.17	8.85	4.97	9.45	5.74	10.04	6.50	10.61	7.94	11.69	9.29	12.69	9.93	13.16
3200	1.61	7.01	2.47	7.68	3.32	8.34	4.15	8.97	4.95	9.58	5.74	10.18	6.50	10.75	7.95	11.83	9.30	12.82	9.93	13.28
3300	1.53	7.10	2.42	7.78	3.28	8.45	4.11	9.08	4.93	9.70	5.72	10.30	6.48	10.87	7.94	11.95	9.29	12.93	9.92	13.39
3400	1.45	7.19	2.35	7.88	3.22	8.54	4.07	9.19	4.89	9.81	5.69	10.41	6.46	10.98	7.91	12.05	9.25	13.03	9.88	13.47
3500	1.37	7.27	2.27	7.96	3.16	8.64	4.01	9.28	4.84	9.91	5.64	10.51	6.41	11.08	7.87	12.14	9.20	13.10	9.82	13.53
3600	1.27	7.34	2.19	8.04	3.08	8.72	3.95	9.37	4.78	9.99	5.58	10.59	6.36	11.16	7.81	12.22	9.12	13.15	9.73	13.58
3700	1.17	7.40	2.10	8.11	3.00	8.79	3.87	9.44	4.71	10.07	5.51	10.67	6.29	11.23	7.73	12.27	9.03	13.19	9.62	13.59
3800	1.06	7.46	2.00	8.17	2.91	8.86	3.78	9.51	4.62	10.13	5.43	10.73	6.20	11.29	7.63	12.31	8.90	13.20	9.46	13.59
3900	0.94	7.51	1.89	8.23	2.80	8.91	3.68	9.57	4.52	10.19	5.33	10.78	6.10	11.33	7.51	12.34	8.76	13.20	9.32	13.57
4000	0.82	7.55	1.77	8.27	2.69	8.96	3.57	9.61	4.41	10.23	5.22	10.81	5.98	11.36	7.37	12.34	8.59	13.17	9.13	13.52

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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SELECTION



TORQUE-TAMER

B S-L CLASSIC

BX CLASSIC COG

Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.												Add'l HP/Belt for Speed Ratio of:										
	6.0		6.4		6.8		7.4		8.0		8.6		9.4		1.02	1.05	1.09	1.13	1.19	1.25	1.35	1.52	2.00
	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	B	BX	1.04	1.08	1.12	1.18	1.24	1.34	1.51	1.99	& up
870	5.35	6.26	5.93	6.73	6.50	7.20	7.36	7.89	8.19	8.56	9.02	9.23	10.10	10.09	0.04	0.01	0.17	0.22	0.28	0.32	0.38	0.42	0.47
1160	6.66	7.81	7.39	8.40	8.12	8.97	9.18	9.82	10.23	10.65	11.25	11.45	12.58	12.49	0.06	0.14	0.22	0.29	0.38	0.43	0.50	0.56	0.63
1750	8.85	10.47	9.83	11.24	10.78	11.98	12.17	13.04	13.50	14.06	14.77	15.02	16.36	16.21	0.09	0.20	0.34	0.44	0.66	0.56	0.70	0.79	0.88
3500	10.95	14.31	11.94	14.97	---	---	---	---	---	---	---	---	---	---	0.18	0.42	0.68	0.89	1.13	1.32	1.52	1.71	1.89
100	0.87	1.03	0.96	1.10	1.04	1.18	1.17	1.29	1.29	1.40	1.42	1.51	1.58	1.65	0.00	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.05
200	1.59	1.86	1.75	2.09	1.90	2.14	2.14	2.34	2.37	2.54	2.60	2.74	2.91	3.09	0.01	0.02	0.04	0.05	0.06	0.07	0.08	0.09	0.10
300	2.24	2.62	2.47	2.82	2.69	3.01	3.03	3.30	3.37	3.58	3.70	3.86	4.14	4.23	0.01	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.16
400	2.85	3.33	3.14	3.58	3.44	3.83	3.87	4.20	4.31	4.56	4.74	4.92	5.30	5.39	0.02	0.04	0.07	0.10	0.11	0.15	0.17	0.19	0.21
500	3.42	4.01	3.79	4.31	4.14	4.61	4.67	5.05	5.20	5.49	5.72	5.92	6.41	6.48	0.02	0.06	0.09	0.12	0.16	0.19	0.21	0.24	0.27
600	3.98	4.65	4.40	5.09	4.82	5.35	5.44	5.86	6.06	6.37	6.67	6.87	7.47	7.52	0.03	0.07	0.12	0.15	0.19	0.22	0.26	0.29	0.32
700	4.50	5.26	4.98	5.66	5.46	6.06	6.17	6.64	6.88	7.21	7.57	7.77	8.48	8.51	0.03	0.08	0.14	0.17	0.22	0.26	0.30	0.34	0.38
800	5.01	5.86	5.55	6.30	6.08	6.74	6.88	7.38	7.66	8.02	8.44	8.64	9.45	9.46	0.04	0.09	0.16	0.20	0.26	0.30	0.34	0.39	0.43
900	5.49	6.42	6.09	6.91	6.68	7.39	7.58	8.10	8.42	8.79	9.27	9.47	10.38	10.36	0.04	0.11	0.17	0.23	0.29	0.33	0.39	0.44	0.49
1000	5.96	6.97	6.61	7.50	7.25	8.02	8.20	8.78	9.14	9.53	10.06	10.26	11.26	11.21	0.05	0.12	0.19	0.25	0.32	0.37	0.43	0.49	0.54
1100	6.40	7.50	7.11	8.07	7.80	8.62	8.82	9.44	9.83	10.24	10.81	11.02	12.10	12.02	0.05	0.11	0.21	0.28	0.35	0.41	0.47	0.54	0.59
1200	6.83	8.01	7.58	8.61	8.32	9.20	9.42	10.07	10.49	10.92	11.53	11.74	12.89	12.79	0.06	0.14	0.23	0.30	0.39	0.45	0.52	0.58	0.65
1300	7.24	8.50	8.04	9.14	8.83	9.76	9.98	10.67	11.11	11.56	12.21	12.42	13.63	13.52	0.06	0.15	0.25	0.33	0.42	0.49	0.56	0.64	0.70
1400	7.63	8.97	8.47	9.64	9.30	10.29	10.52	11.25	11.70	12.17	12.85	13.06	14.33	14.20	0.07	0.16	0.27	0.35	0.45	0.53	0.60	0.68	0.76
1500	8.00	9.42	8.89	10.12	9.76	10.80	11.03	11.80	12.26	12.75	13.45	13.67	14.98	14.83	0.07	0.18	0.29	0.38	0.48	0.56	0.65	0.73	0.81
1600	8.35	9.85	9.28	10.58	10.19	11.29	11.51	12.32	12.78	13.30	14.01	14.24	15.57	15.42	0.08	0.19	0.31	0.41	0.52	0.60	0.69	0.78	0.86
1700	8.69	10.27	9.65	11.02	10.59	11.75	11.96	12.81	13.27	13.81	14.53	14.77	16.11	15.96	0.08	0.20	0.33	0.43	0.55	0.64	0.74	0.83	0.92
1800	9.00	10.67	10.09	11.44	10.97	12.19	12.37	13.27	13.72	14.29	15.00	15.25	16.60	16.44	0.09	0.21	0.35	0.45	0.58	0.68	0.78	0.88	0.97
1900	9.30	11.05	10.32	11.84	11.32	12.61	12.76	13.70	14.13	14.74	15.42	15.70	17.03	16.88	0.10	0.22	0.37	0.48	0.61	0.71	0.82	0.93	1.03
2000	9.57	11.41	10.63	12.22	11.65	13.00	13.11	14.11	14.50	15.14	15.80	16.10	17.39	17.26	0.10	0.24	0.39	0.51	0.65	0.75	0.87	0.97	1.08
2100	9.83	11.75	10.91	12.57	11.95	13.36	13.43	14.48	14.83	15.52	16.13	16.47	17.70	17.59	0.11	0.25	0.41	0.53	0.68	0.79	0.91	1.03	1.14
2200	10.06	12.07	11.16	12.91	12.22	13.70	13.72	14.82	15.11	15.85	16.40	16.78	17.94	17.85	0.11	0.26	0.42	0.56	0.71	0.82	0.95	1.08	1.19
2300	10.27	12.37	11.39	13.21	12.46	14.02	13.97	15.13	15.36	16.14	16.63	17.05	18.12	18.08	0.12	0.27	0.44	0.58	0.74	0.86	1.00	1.12	1.24
2400	10.46	12.65	11.59	13.50	12.67	14.30	14.18	15.41	15.56	16.40	16.80	17.27	18.22	18.23	0.12	0.28	0.46	0.61	0.78	0.90	1.02	1.18	1.30
2500	10.63	12.91	11.77	13.76	12.85	14.56	14.35	15.65	15.71	16.61	16.91	17.44	18.26	18.32	0.12	0.29	0.48	0.63	0.83	0.93	1.08	1.22	1.35
2600	10.78	13.15	11.92	14.00	13.00	14.79	14.49	15.86	15.81	16.79	16.96	17.56	---	---	0.13	0.31	0.50	0.56	0.84	0.97	1.13	1.27	1.41
2700	10.90	13.37	12.04	14.22	13.11	14.99	14.58	16.03	15.86	16.92	16.96	17.63	---	---	0.13	0.32	0.52	0.68	0.87	1.01	1.17	1.32	1.46
2800	10.99	13.57	12.14	14.40	13.20	15.17	14.63	16.17	15.87	17.00	16.42	17.74	---	---	0.14	0.33	0.54	0.71	0.91	1.05	1.21	1.37	1.51
2900	11.07	13.75	12.20	14.57	13.25	15.31	14.64	16.27	15.82	17.04	---	---	---	---	0.14	0.34	0.56	0.73	0.94	1.09	1.25	1.42	1.56
3000	11.11	13.90	12.24	14.70	13.26	15.42	14.61	16.33	15.81	17.09	---	---	---	---	0.15	0.36	0.58	0.76	0.97	1.12	1.30	1.47	1.62
3100	11.13	14.06	12.24	14.81	13.24	15.50	14.53	16.36	---	---	---	---	---	---	0.15	0.37	0.60	0.78	0.99	1.14	1.34	1.51	1.67
3200	11.13	14.14	12.21	14.90	13.18	15.55	14.41	16.34	---	---	---	---	---	---	0.16	0.38	0.62	0.81	1.02	1.19	1.39	1.56	1.73
3300	11.10	14.22	12.15	14.95	13.09	15.57	---	---	---	---	---	---	---	---	0.16	0.39	0.64	0.83	1.06	1.23	1.43	1.61	1.77
3400	11.04	14.28	12.06	14.98	12.95	15.55	---	---	---	---	---	---	---	---	0.17	0.40	0.66	0.85	1.10	1.28	1.47	1.56	1.84
3500	10.95	15.31	11.94	14.97	---	---	---	---	---	---	---	---	---	---	0.17	0.41	0.68	0.89	1.12	1.31	1.51	1.71	1.89
3600	10.83	14.32	11.78	14.94	---	---	---	---	---	---	---	---	---	---	0.18	0.43	0.70	0.92	1.15	1.35	1.56	1.76	1.95
3700	10.68	14.31	---	---	---	---	---	---	---	---	---	---	---	---	0.18	0.44	0.71	0.94	1.19	1.39	1.61	1.81	2.01
3800	10.50	14.26	---	---	---	---	---	---	---	---	---	---	---	---	0.19	0.45	0.73	0.96	1.23	1.43	1.66	1.86	2.06
3900	10.30	14.19	---	---	---	---	---	---	---	---	---	---	---	---	0.19	0.46	0.74	0.99	1.27	1.47	1.70	1.91	2.11
4000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.20	0.47	0.76	1.02	1.30	1.50	1.74	1.96	2.16

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

C S-L CLASSIC

CX CLASSIC COG

Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.																			
	6.0		6.5		7.0		7.5		8.0		8.5		9.0		9.5		10.0		10.5	
	C	CX	C	CX	C	CX	C	CX	C	CX	C	CX	C	CX	C	CX	C	CX	C	CX
870	5.57	9.32	6.78	10.36	7.98	11.39	9.16	12.40	10.33	13.40	11.48	14.39	12.62	15.36	13.74	16.32	14.85	17.26	15.95	18.20
1160	6.66	11.62	8.19	12.93	9.69	14.22	11.17	15.48	12.62	16.71	14.05	17.93	15.45	19.11	16.82	20.28	18.17	21.42	19.49	22.54
1750	8.07	15.57	10.11	17.30	12.09	18.97	14.00	20.59	15.84	22.15	17.62	23.65	19.32	25.09	20.94	26.47	22.49	27.78	23.96	29.02
3500	4.78	20.81	6.77	22.53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
100	1.06	1.53	1.23	1.68	1.41	1.84	1.58	1.99	1.75	2.15	1.92	2.30	2.09	2.45	2.26	2.61	2.43	2.76	2.60	2.91
200	1.86	2.77	2.19	3.06	2.51	3.35	2.84	3.64	3.16	3.92	3.48	4.21	3.80	4.49	4.12	4.77	4.43	5.05	4.75	5.33
300	2.56	3.90	3.03	4.32	3.50	4.73	3.97	5.14	4.44	5.55	4.90	5.96	5.36	6.36	5.81	6.76	6.27	7.16	6.72	7.55
400	3.19	4.96	3.80	5.50	4.41	6.03	5.02	6.56	5.62	7.08	6.22	7.60	6.81	8.12	7.40	8.63	7.99	9.14	8.57	9.65
500	3.77	5.96	4.52	6.62	5.26	7.26	6.00	7.90	6.73	8.54	7.46	9.17	8.18	9.79	8.89	10.41	9.60	11.02	10.31	11.63
600	4.31	6.92	5.19	7.68	6.06	8.44	6.92	9.19	7.78	9.93	8.63	10.56	9.47	11.39	10.31	12.11	11.13	12.82	11.96	13.52
700	4.80	7.84	5.81	8.71	6.81	9.57	7.79	10.42	8.77	11.26	9.74	12.09	10.69	12.91	11.64	13.73	12.58	14.53	13.51	15.33
800	5.27	8.72	6.39	9.69	7.51	10.65	8.61	11.60	9.70	12.54	10.78	13.46	11.85	14.37	12.90	15.27	13.95	16.17	14.98	17.04
900	5.69	9.57	6.94	10.64	8.17	11.69	9.38	12.73	10.58	13.76	11.77	14.77	12.94	15.77	14.09	16.75	15.23	17.72	16.35	18.68
1000	6.09	10.38	7.45	11.55	8.79	12.69	10.11	13.82	11.41	14.94	12.69	16.03	13.96	17.11	15.20	18.17	16.43	19.21	17.63	20.23
1100	6.46	11.17	7.92	12.42	9.37	13.66	10.79	14.87	12.19	16.06	13.56	17.23	14.91	18.38	16.24	19.51	17.54	20.61	18.82	21.70
1200	6.79	11.92	8.36	13.26	9.90	14.58	11.42	15.87	12.91	17.14	14.37	18.38	15.80	19.59	17.20	20.78	18.57	21.94	19.91	23.08
1300	7.09	12.65	8.76	14.07	10.40	15.47	12.00	16.83	13.57	18.16	15.11	19.47	16.61	20.74	18.08	21.98	19.51	23.19	20.90	24.37
1400	7.36	13.35	9.13	14.85	10.85	16.31	12.53	17.74	14.18	19.14	15.78	20.50	17.35	21.82	18.87	23.11	20.35	24.36	21.78	25.58
1500	7.61	14.02	9.45	15.59	11.26	17.12	13.02	18.61	14.73	20.06	16.40	21.48	18.01	22.84	19.58	24.17	21.09	25.45	22.55	26.69
1600	7.82	14.66	9.75	16.30	11.62	17.89	13.45	19.44	15.22	20.94	16.94	22.39	18.60	23.79	20.19	25.15	21.73	26.45	23.21	27.70
1700	7.99	15.27	10.00	16.97	11.94	18.62	13.83	20.22	15.65	21.76	17.41	23.25	19.10	24.68	20.72	26.05	22.27	27.36	23.74	28.61
1800	8.14	15.85	10.21	17.61	12.22	19.31	14.15	20.95	16.02	22.53	17.81	24.04	19.52	25.49	21.14	26.86	22.69	28.17	24.15	29.41
1900	8.25	16.41	10.39	18.22	12.44	19.96	14.42	21.63	16.32	23.24	18.13	24.77	19.84	26.22	21.47	27.60	23.00	28.90	24.42	30.11
2000	8.33	16.93	10.52	18.79	12.62	20.57	14.63	22.27	16.55	23.89	18.37	25.43	20.08	26.88	21.69	28.25	23.18	29.52	24.56	30.69
2100	8.37	17.42	10.61	19.32	12.75	21.13	14.79	22.85	16.71	24.49	18.53	26.02	20.22	27.46	21.80	28.80	23.25	30.04	24.56	31.16
2200	8.38	17.89	10.56	19.82	12.82	21.65	14.88	23.39	16.80	25.02	18.60	26.55	20.27	27.96	21.80	29.27	23.18	30.45	24.41	31.51
2300	8.35	18.32	10.66	20.28	12.85	22.13	14.90	23.87	16.82	25.49	18.59	27.00	20.21	28.38	21.68	29.63	22.98	30.75	---	---
2400	8.28	18.72	10.62	20.70	12.81	22.56	14.86	24.29	16.76	25.90	18.49	27.38	20.05	28.71	21.44	29.90	---	---	---	---
2500	8.17	19.08	10.53	21.08	12.73	22.94	14.76	24.66	16.62	26.25	18.29	27.68	19.78	28.95	21.07	30.07	---	---	---	---
2600	8.03	19.42	10.39	21.42	12.58	23.27	14.25	24.98	16.39	23.52	18.00	27.90	19.40	29.11	---	---	---	---	---	---
2700	7.84	19.72	10.20	21.72	12.37	23.56	14.34	25.23	16.09	26.73	17.61	28.04	---	---	---	---	---	---	---	---
2800	7.61	19.98	9.97	21.98	12.10	23.80	14.02	25.43	15.69	26.87	---	---	---	---	---	---	---	---	---	---
2900	7.34	20.21	9.68	22.19	11.77	23.98	13.62	25.56	15.21	26.93	---	---	---	---	---	---	---	---	---	---
3000	7.03	20.41	9.33	22.37	11.38	24.11	13.15	25.63	---	---	---	---	---	---	---	---	---	---	---	---
3100	6.67	20.57	8.94	22.49	10.91	24.19	12.59	25.64	---	---	---	---	---	---	---	---	---	---	---	---
3200	6.27	20.69	8.48	22.57	10.38	24.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3300	5.82	20.77	7.97	22.61	9.78	24.17	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3400	5.32	20.81	7.40	22.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3500	4.78	20.81	6.77	22.53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3600	4.18	20.77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3700	3.53	20.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3800	2.83	20.57	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.



SELECTION



TORQUE-TAMER

C	S-L CLASSIC	CX	CLASSIC COG
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Basic Horsepower Ratings

Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.										Add'l HP/Belt for Speed Ratio of:					
	11.0		12.0		13.0		14.0		16.0		1.03	1.10	1.20	1.40	1.80	3.00
	C	CX	C	CX	C	CX	C	CX	C	CX	1.09	1.19	1.39	1.79	2.99	& up
870	17.03	19.12	19.15	20.92	21.21	22.66	23.20	24.36	27.00	27.57	0.13	0.37	0.59	0.82	0.97	1.05
1160	20.78	23.63	23.27	25.74	25.64	27.75	27.88	29.64	31.96	33.10	0.17	0.49	0.79	1.09	1.30	1.40
1750	25.35	30.20	27.86	32.34	30.00	34.18	---	---	---	---	0.26	0.74	1.19	1.65	1.96	2.11
3500	---	---	---	---	---	---	---	---	---	---	0.52	1.47	2.37	3.30	3.92	4.22
100	2.76	3.06	3.10	3.35	3.43	3.65	3.75	3.94	4.40	4.51	0.01	0.04	0.07	0.09	0.11	0.12
200	5.06	5.60	5.68	6.15	6.30	6.69	6.91	7.22	8.12	8.28	0.03	0.08	0.14	0.19	0.22	0.24
300	7.17	7.94	8.06	8.72	8.95	9.49	9.82	10.25	11.55	11.74	0.04	0.13	0.20	0.28	0.34	0.36
400	9.15	10.15	10.29	11.14	11.43	12.12	12.55	13.08	14.75	14.98	0.06	0.17	0.27	0.38	0.45	0.48
500	11.01	12.23	12.39	13.43	13.76	14.60	15.11	15.75	17.75	18.01	0.07	0.21	0.34	0.47	0.56	0.60
600	12.77	14.22	14.38	15.60	15.96	16.95	17.51	18.27	20.54	20.85	0.09	0.25	0.41	0.57	0.67	0.72
700	14.43	16.11	16.24	17.66	18.02	19.17	19.76	20.65	23.12	23.51	0.10	0.29	0.47	0.66	0.78	0.84
800	15.99	17.91	17.99	19.61	19.94	21.27	21.84	22.88	25.48	25.97	0.12	0.34	0.54	0.75	0.90	0.97
900	17.46	19.62	19.62	21.46	21.73	23.24	23.76	24.96	27.62	28.23	0.13	0.38	0.61	0.85	1.01	1.09
1000	18.82	21.24	21.13	23.20	23.36	25.08	25.50	26.89	29.50	30.28	0.15	0.42	0.68	0.94	1.12	1.21
1100	20.08	22.76	22.51	24.82	24.83	26.79	27.05	28.66	31.12	32.11	0.16	0.46	0.75	1.04	1.23	1.33
1200	21.22	24.19	23.75	26.33	26.15	28.35	28.40	30.26	32.47	33.71	0.18	0.51	0.81	1.13	1.34	1.45
1300	22.26	25.52	24.85	27.72	27.28	29.77	29.54	31.69	33.51	35.06	0.19	0.55	0.88	1.23	1.45	1.57
1400	23.17	26.75	25.80	28.98	28.24	31.04	30.46	32.93	34.24	36.16	0.21	0.59	0.95	1.32	1.57	1.69
1500	23.96	27.88	26.60	30.11	29.00	32.15	31.15	33.98	34.63	36.98	0.22	0.63	1.02	1.41	1.68	1.81
1600	24.62	28.89	27.23	31.11	29.56	33.09	31.59	34.83	---	---	0.24	0.67	1.09	1.51	1.79	1.93
1700	25.14	29.79	27.69	31.97	29.91	33.86	31.77	35.47	---	---	0.25	0.72	1.15	1.60	1.90	2.05
1800	25.52	30.58	27.98	32.67	30.04	34.45	---	---	---	---	0.27	0.76	1.22	1.70	2.01	2.17
1900	25.75	31.24	28.07	33.23	---	---	---	---	---	---	0.28	0.80	1.29	1.79	2.13	2.29
2000	25.82	31.77	27.97	33.63	---	---	---	---	---	---	0.30	0.84	1.36	1.89	2.24	2.41
2100	25.74	32.18	---	---	---	---	---	---	---	---	0.31	0.88	1.42	1.98	2.35	2.53
2200	---	---	---	---	---	---	---	---	---	---	0.33	0.93	1.49	2.07	2.46	2.66
2300	---	---	---	---	---	---	---	---	---	---	0.34	0.97	1.56	2.17	2.57	2.78
2400	---	---	---	---	---	---	---	---	---	---	0.36	1.01	1.63	2.26	2.69	2.90
2500	---	---	---	---	---	---	---	---	---	---	0.37	1.05	1.70	2.36	2.80	3.02
2600	---	---	---	---	---	---	---	---	---	---	0.39	1.10	1.76	2.45	2.91	3.14
2700	---	---	---	---	---	---	---	---	---	---	0.40	1.14	1.83	2.54	3.02	3.26
2800	---	---	---	---	---	---	---	---	---	---	0.42	1.18	1.90	2.64	3.13	3.38
2900	---	---	---	---	---	---	---	---	---	---	0.43	1.22	1.97	2.73	3.25	3.50
3000	---	---	---	---	---	---	---	---	---	---	0.45	1.26	2.04	2.83	3.36	3.62
3100	---	---	---	---	---	---	---	---	---	---	0.46	1.31	2.10	2.92	3.47	3.74
3200	---	---	---	---	---	---	---	---	---	---	0.48	1.35	2.17	3.02	3.58	3.86
3300	---	---	---	---	---	---	---	---	---	---	0.49	1.39	2.24	3.11	3.69	3.98
3400	---	---	---	---	---	---	---	---	---	---	0.51	1.43	2.31	3.20	3.80	4.10
3500	---	---	---	---	---	---	---	---	---	---	0.52	1.47	2.37	3.30	3.92	4.22
3600	---	---	---	---	---	---	---	---	---	---	0.54	1.52	2.44	3.39	4.03	4.35
3700	---	---	---	---	---	---	---	---	---	---	0.55	1.56	2.51	3.49	4.14	4.47
3800	---	---	---	---	---	---	---	---	---	---	0.57	1.60	2.58	3.58	4.25	4.59

Note: Shaded area indicates operation above 6500 FPM rim speed. Special sheave construction required.

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

D S-L CLASSIC

Basic Horsepower Ratings

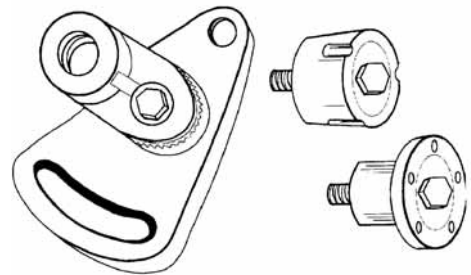
Faster Shaft RPM	Rated HP per Belt for Small Sheave Datum Dia.										Additional HP/Belt for Speed Ratio of:									
	12.0	13.0	13.5	14.0	14.5	15.0	15.5	16.0	18.0	20.0	22.0	1.02 thru 1.04	1.05 thru 1.08	1.09 thru 1.12	1.13 thru 1.18	1.19 thru 1.24	1.25 thru 1.34	1.35 thru 1.51	1.52 thru 1.99	2.00 and Up
700	19.3	22.7	24.3	25.9	27.6	29.2	30.7	32.3	38.4	44.1	49.5	.26	.60	.98	1.29	1.65	1.91	2.20	2.48	2.75
870	22.2	26.1	28.0	29.9	31.7	33.5	35.3	37.1	43.8	50.0	55.5	.32	.75	1.22	1.61	2.05	2.37	2.74	3.09	3.42
1150	25.7	30.2	32.4	34.5	36.5	38.5	40.5	42.3	49.1	54.6	58.8	.43	1.00	1.63	2.14	2.73	3.16	3.65	4.11	4.56
50	2.26	2.59	2.75	2.91	3.07	3.24	3.40	3.56	4.19	4.82	5.44	.02	.04	.07	.09	.12	.14	.16	.18	.20
100	4.10	4.71	5.02	5.32	5.63	5.93	6.23	6.53	7.73	8.91	10.1	.04	.09	.14	.18	.24	.27	.31	.35	.39
150	5.76	6.65	7.09	7.53	7.97	8.41	8.85	9.28	11.0	12.7	14.4	.06	.13	.21	.28	.35	.41	.47	.53	.59
200	7.32	8.47	9.04	9.61	10.2	10.7	11.3	11.9	14.1	16.3	18.5	.07	.17	.28	.37	.47	.54	.63	.71	.79
300	10.2	11.8	12.7	13.5	14.3	15.1	15.9	16.7	19.9	23.0	26.1	.11	.26	.42	.55	.71	.82	.94	1.06	1.18
400	12.8	14.9	16.0	17.0	18.1	19.1	20.1	21.1	25.2	29.2	33.0	.15	.35	.56	.74	.94	1.09	1.26	1.42	1.57
500	15.1	17.7	19.0	20.3	21.5	22.8	24.0	25.2	30.0	34.7	39.3	.19	.43	.70	.92	1.18	1.36	1.57	1.77	1.96
600	17.3	20.3	21.8	23.2	24.7	26.1	27.5	28.9	34.4	39.7	44.8	.22	.52	.84	1.11	1.41	1.63	1.89	2.13	2.36
700	19.3	22.7	24.3	25.9	27.6	29.2	30.7	32.3	38.3	44.1	49.5	.26	.60	.98	1.29	1.65	1.91	2.20	2.48	2.75
800	21.1	24.8	26.6	28.4	30.1	31.9	33.6	35.3	41.7	47.8	53.4	.30	.69	1.13	1.48	1.88	2.18	2.52	2.84	3.14
900	22.6	26.6	28.6	30.5	32.4	34.2	36.0	37.8	44.6	50.7	56.3	.34	.78	1.27	1.66	2.12	2.45	2.83	3.19	3.53
1000	24.0	28.2	30.3	32.3	34.3	36.2	38.1	39.9	46.8	52.9	58.2	.37	.86	1.41	1.85	2.35	2.72	3.15	3.55	3.93
1100	25.1	29.5	31.7	33.8	35.8	37.8	39.7	41.6	48.4	54.2	58.9	.41	.95	1.55	2.03	2.59	3.00	3.46	3.90	4.32
1200	26.0	30.6	32.8	34.9	36.9	38.9	40.9	42.7	49.3	54.6	58.5	.45	1.04	1.69	2.21	2.82	3.27	3.78	4.26	4.71
1300	26.7	31.3	33.5	35.7	37.7	39.7	41.5	43.3	49.5	54.0	56.8	.49	1.12	1.83	2.40	3.06	3.54	4.09	4.61	5.11
1400	27.0	31.7	33.9	36.0	38.0	39.9	41.7	43.4	48.9	52.4	53.6	.52	1.21	1.97	2.58	3.29	3.81	4.41	4.97	5.50
1500	27.1	31.8	33.9	36.0	37.9	39.7	41.3	42.8	47.4	49.6	49.1	.56	1.30	2.11	2.77	3.53	4.09	4.72	5.32	5.89
1600	27.0	31.5	33.6	35.5	37.3	38.9	40.3	41.6	45.1	45.6	42.9	.60	1.38	2.25	2.95	3.76	4.36	5.04	5.68	6.28
1700	26.5	30.9	32.8	34.6	36.1	37.5	38.8	39.8	41.8	40.4	35.0	.63	1.47	2.39	3.14	4.00	4.63	5.35	6.03	6.68
1800	25.7	29.8	31.6	33.1	34.5	35.6	36.5	37.2	37.6	33.8	---	.67	1.55	2.53	3.32	4.23	4.90	5.67	6.38	7.07

Shaded Areas indicate rim speed exceeding 6500 FPM which may require special sheaves.

IDLER

Brackets and Bushings

- Double Adjustable Bracket for Maximum Flexibility
- Positive Ratchet Locking Between Base and Arm
- Idler Bushings in TAPER-LOCK and QD Style
- Use with Stock Products, such as: Sheaves, Roller Chain Sprockets, HTD Sprockets
- Compatible with Products Machined for: TAPER-LOCK 1610, 2012 and 2517 Bushings QD SK, SF and E Bushings
- Also, NEMA - Motor Bases Shaft Collars

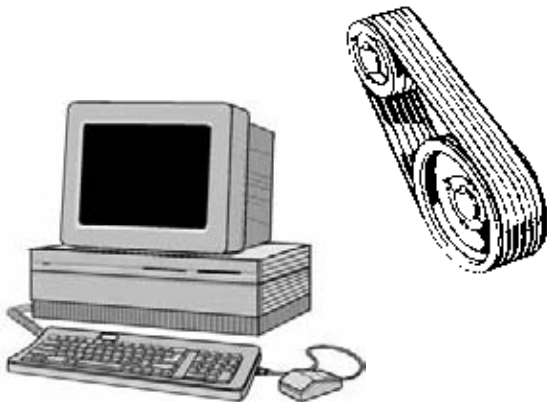


Refer to Related Products (page PT12-40) for complete data.

SHEAVES PAGES PT2-3	BELTS PAGES PT2-28	SELECTION: WEDGE PAGES PT2-42	ENGINEERING/TECHNICAL PAGES PT2-124
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Computer Drive Selection Program



For any given set of drive conditions, there are many different drives that will satisfy the requirements. What is a "best drive"? It could be the drive with lowest initial cost, or the drive with the lowest bearing load, or the drive which minimizes the number of parts required.

Finding the best drive is a time-consuming and frustrating task for the design engineer. Manual drive selection, pricing, and organizing of data for analysis can be a long, drawn-out process, prone to errors and oversights. VIA-VISA Software handles such problems with ease and displays drive selection alternatives in an organized format that makes analysis a simple process.

Here's what you get with VIA-VISA Software selection:

- Belt size, type, quantity, part number.
- Sheave sizes, part number.
- Bushing type, part number.
- Drive face width.
- Actual center distance.
- Installation force/deflection values for drive tensioning.
- Belt pull, dynamic shaft load for bearing and shafting calculations.
- Net price (if discount multipliers entered). Default to total list price.
- Belt speed in feet per minute.
- Calculated driven RPM
- Calculated actual service factor.

Ask your DODGE Sales Engineer for a demonstration and instruction on how you can obtain your personal VIA-VISA package.

V-Drive Accessories

V-Belt Measuring Gage

This gage allows you to measure belts that may have lost their identification. This is easily done by slipping belt in "sheave" grooves and moving bottom sheave until belts is taut. Notched portion of bottom sheave indicates belt width. Belt length is then read opposite corresponding width on scale. Gage is made of aluminum and plastic – rust proof and durable.

Part No. 450966

Wt. - 1 Lb.



V-Belt Groove and Belt Gage

When V-belt sections or sheave groove need to be identified this set of molded plastic gages can be the handiest thing in your tool box. Includes 8 gages for grooves and 2 for belts covering Classical A thru E, A/B Combination grooves and Narrow 3V, 5V and 8V. They are pinned together so that the individual gages will not become lost.

Part No. 121294

Wt. - 0.12 Lb.



BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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RELATED PRODUCTS



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

V-Drive Accessories

V-Belt Tension Tester

This convenient tool facilitates easy checking of belt tension on drives having two or more belts. Scales are provided for reading both the required force and the distance of belt deflection which are used in properly tensioning belts. Force range is 0 - 35 lbs.



Part No. 109082
Wt. - 0.5 Lb.

Five Barrel Tension Tester

Maximum deflection force: 165 lbs. For use with multiple V-belts and large synchronous belts.

Part No. 109992
Wt. - 1 Lb.



Precision Laser Alignment Device

Identifies common types of pulley misalignment.



Part No. 109993
Wt. - 30 Lb.

Double Barrel Tension Tester

Maximum deflection force: 66 lbs. For use with all multiple V-belts and large synchronous belts.



Part No. 109991
Wt. - 0.5 Lb.

Sonic Tension Meter - Model 507C



The Sonic Tension Meter is an electronic device that measures the natural frequency of a free stationary belt span and instantly computes the static belt tensions based upon the belt span length, belt width, and belt type. The Sonic Tension Meter can accurately measure belt tensions for both synchronous and v-belts. Other features include:

- Output readings can be switched between pounds, kilograms, newtons and hertz
- Auto gain control automatically adjusts meter sensitivity
- Auto frequency range filters for background noise
- Frequency range from 10 - 5,000 Hz

Sonic Tension Meter - Model 507C	Part No. 109994	Wt - 1.0 Lb.
Flexible Sensor	Part No. 109995	Wt. - 0.2 Lb.
Cord Sensor	Part No. 109996	Wt. - 0.2 Lb.
Inductive Sensor (magnets included)	Part No. 109997	Wt. - 0.2 Lb.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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INSTALLING/TENSIONING V-DRIVES

INSTALLING A DRIVE

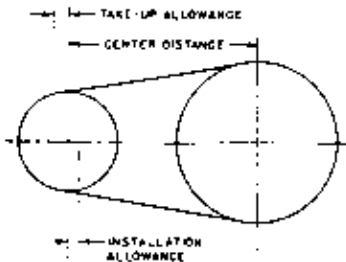
Check Condition of Sheaves—Before a new set of V-belts are installed, check the condition of the sheaves. Dirty or rusty sheaves impair the drive's efficiency and abrade the belts, which result in premature failure.

Worn sheaves shorten belt life as much as 50%. If the grooves are worn to where the belt bottoms, slippage may result and burn the belts. If the sidewalls are "dished out," the bottom shoulder ruins the belts prematurely by wearing off the bottom corners.

Check Sheave Alignment—Sheave adjustment should be checked by placing a straight edge or tight cord across the sheave faces so that it touches all four points of contact. Ordinarily, a misalignment of more than one-half of one degree (one-eighth inch in one foot) will adversely affect belt life. Improper sheave alignment produces uneven wear on one side of the belt, causes the belt to roll over in the sheaves or throws all the load on one side of the belt, stretching or breaking the cords on that side.

INSTALLATION AND TAKE-UP ALLOWANCES

After calculating a center distance from a standard pitch length, make provision for adjusting the center distance as in sketch below, to allow for installation of the belts without injury, for tensioning, and for maintenance of proper tension throughout the life of the belt. (Refer to Tables 11 or 12 for values).



Placing Belts on Sheaves—Shorten the center distance of the drive until the belts can be put on the sheaves without forcing. Forcing the belts can cause internal injury to the belts.

Belt Selection—For maximum service, replace V-belt drives with a complete new matched set of belts or use the new Matchmaker belts.

Never employ a used belt as a replacement for a unit of a set. Used belts, normally, are worn in cross-section and stretched. A new belt so applied will ride higher in the sheave, travel faster and operate at a much higher tension than the used belts. The cord center may be ruptured, allowing the new belt to elongate. Shortly after this occurs it will cease to accept its full share of the load, leaving the drive under-belted. Thus, the new belt is wasted. Belts of different manufacturers should not be mixed for the same reasons.

Table 11—Center Distance Allowance for Narrow Belt Installation and Take-Up

Nom. Belt Lgth. in Inches	Min. Installation Allowance (in inches) (Below Center)						Min. Take-up Allowance (Above Center)
	3V Dyna-V	3V Poly-band	5V Dyna-V	5V Poly-band	8V Dyna-V	8V Poly-band	
Up to & incl. 47.5	.05	1.2	...	...	...	...	1.0"
50-71	0.8	1.4	1.0	2.1	...	...	1.2
75-106	0.8	1.4	1.0	2.1	1.5	3.4	1.5
112-125	0.8	1.4	1.0	2.1	1.5	3.4	1.8
132-170	0.8	1.4	1.0	2.1	1.5	3.4	2.2
180-200	...	...	1.0	2.1	1.8	3.6	2.5
212-236	...	...	1.2	2.4	1.8	3.6	3.0
250 & 265	...	...	1.2	2.4	1.8	3.6	3.2
280 & 300	...	...	1.2	2.4	1.8	3.6	3.5
315-355	...	...	1.2	2.4	2.0	4.0	4.0
375	...	...	...	...	2.0	4.0	4.5
400-560	...	...	...	...	2.0	4.0	5.5



INSTALLING/TENSIONING V-DRIVES

Table 12 - Center Distance Allowance for Classical Belt Installation and Take-up

Nom. Belt Lgth. in Inches	Min. Installation Allowance (in inches) (Below Center)							Min. Take-up Allowance (Above Center)
	A	B	B Poly-band	C	C Poly-band	D	D Poly-band	
26-37	0.75	1.00	1.50	1.50	...	...	...	1.00"
38-59	0.75	1.00	1.50	1.50	2.00	...	...	1.50
60-89	0.75	1.25	1.61	1.50	2.00	...	...	2.00
90-119	1.00	1.25	1.61	1.50	2.00	...	...	2.50
120-157	1.00	1.25	1.81	1.50	2.11	2.0	2.00	3.00
158-194	...	1.25	1.81	2.00	2.20	2.00	3.00	3.50
195-239	...	1.50	1.81	2.00	2.31	2.00	3.20	4.00
240-269	...	1.50	2.00	2.00	2.50	2.50	3.20	4.50
270-329	...	1.50	2.20	2.00	2.50	2.50	3.50	5.00
330-419	...	...	...	2.00	2.70	2.50	3.60	6.00
420 & Over	...	...	...	2.50	2.90	3.00	4.10	1-1/2% of belt lgth.

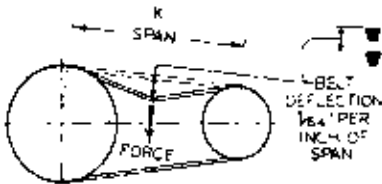
TENSIONING A DRIVE

General Rules of Tensioning-

1. Ideal tension is the lowest tension at which the belt will not slip under peak load conditions.
2. Check tension frequently during the first 24-48 hours of run-in operation.
3. Over tensioning shortens belt and bearing life.
4. Keep belts free from foreign material which may cause slip.
5. Make V-Drive inspection on a periodic basis. Tension when slipping. Never apply belt dressing as this will damage the belt and cause early failure.

SIMPLE TENSIONING PROCEDURE

1. Measure the span length, K.
2. At the center of the span (K) apply a force (perpendicular to the span) large enough to deflect the 1/64, for every inch of span length. For example, one deflection of a 100 inch span would be 100/64 or 1-9/16 inches.



3. Compare the force you have applied with the values given in Tables 13 or 14. If the force is between the values for normal tension, and 1-1/2 times normal tension, the drive tension should be satisfactory. A force below the value for normal tension indicates an under-tensioned drive. If the force exceeds the value for 1-1/2 times normal tension, the drive is tighter than it needs to be.

For V-Belt Tension Testers, See Page PT7-123.

After the proper operating tension has been applied to the belts, a double-check should be made of the following:

- a. Parallel position of the sheave shafts.
- b. Correct alignment of sheave grooves.



Installing/Tensioning V-Drives

Table 13-Belt Deflection Force (Check factory for conditions not covered in this table)

V-Belt Section	Small Sheave		Deflection Force In Lbs. For Drive Speed Ratio of:			
	Speed Range	Diameter	1.0	1.5	2.0	4.0 +
A (AP)	1800-3600	3.0	2.0	2.3	2.4	2.6
	1800-3600	4.0	2.6	2.8	3.0	3.3
	1800-3600	5.0	3.0	3.3	3.4	3.7
	1800-3600	7.0	3.5	3.7	3.8	4.3
B (BP)	1200-1800	4.6	3.7	4.3	4.5	5.0
	1200-1800	5.0	4.1	4.6	4.8	5.6
	1200-1800	6.0	4.8	5.3	5.5	6.3
C (CP)	1200-1800	8.0	5.7	6.2	6.4	7.2
	900-1800	7.0	6.5	7.0	8.0	9.0
	900-1800	9.0	8.0	9.0	10.0	11.0
	900-1800	12.0	10.0	11.0	12.0	13.0
D (DP)	700-1500	16.0	12.0	13.0	13.0	14.0
	900-1500	12.0	13.0	15.0	16.0	17.0
	900-1500	15.0	16.0	18.0	19.0	21.0
	700-1200	18.0	19.0	21.0	22.0	24.0
AX	700-1200	22.0	22.0	23.0	24.0	26.0
	1800-3600	3.0	2.5	2.8	3.0	3.3
	1800-3600	4.0	3.3	3.6	3.8	4.2
	1800-3600	5.0	3.7	4.1	4.3	4.6
BX	1800-3600	7.0	4.3	4.6	4.8	5.3
	1200-1800	4.6	5.2	5.8	6.0	6.9
	1200-1800	5.0	5.4	6.0	6.3	7.1
	1200-1800	6.0	6.0	6.4	6.7	7.7
CX	1200-1800	8.0	6.6	7.1	7.5	8.2
	900-1800	7.0	10.0	11.0	12.0	13.0
	900-1800	9.0	11.0	12.0	13.0	14.0
	900-1800	12.0	12.0	13.0	13.0	14.0
DX	700-1500	16.0	13.0	14.0	14.0	15.0
	900-1500	12.0	16.0	18.0	19.0	20.0
	900-1500	15.0	19.0	21.0	22.0	24.0
	700-1200	18.0	22.0	24.0	25.0	27.0
700-1200	22.0	25.0	27.0	28.0	30.0	

Table 14-POLYBAND Plus Belt Deflection Force (lbs.) (Force is pounds for one belt only)

Cross Section	Small Sheave Diameter Range	RPM Range	Belt Deflection Force*	
			Normal	New Belt
5VF	7.1-10.9	200-700	21.1	30.9
		701-1250	18.0	26.3
		1251-1900	16.7	23.4
		1901-3000	15.8	23.0
5VF	11.8-16.0	200-700	26.8	39.5
		701-1250	23.5	34.7
		1251-2100	22.7	33.3
8VF	12.5-20.0	200-500	44.7	65.8
		501-850	38.5	56.6
		851-1150	35.2	51.6
		1151-1650	33.5	49.0
8VF	21.2-25.0	200-500	65.9	97.6
		501-850	61.2	90.6
		851-1200	57.0	84.3

* Multiply the force required for one belt by the number of belts in the Polyband Plus unit to get total force to apply.
 Example: New 8VF drive with a small sheave dia. equal to 20". The rpm of the sheave is 1000.
 The belt to be installed is 8/8VF4000.
 Total deflection force = table value x 8 = 51.6 x 8 = 413 lbs.

Belt Pull and Bearing Loads

Belt Pull Calculations—The following method of calculating belt pull is found to be the most convenient and accurate for drives operating at design loads and tensions:

$$T_1 + T_2 = 33,000 (2.5-G) \left(\frac{HP}{GV} \right)$$

WHERE:

T₁ = Tight side tension, pounds

T₂ = Slack side tension, pounds

HP = Design horsepower

V = Belt speed, feet per minute = (PD) (RPM) (.262)

G = Arc of contact correction factor

Arc of Contact Factors

D-d C	Arc of Contact	Factor G	D-d C	Arc of Contact	Factor G
.00	180°	1.00	.80	133°	.87
.10	174°	.99	.90	127°	.85
.20	169°	.97	1.00	120°	.82
.30	163°	.96	1.10	113°	.80
.40	157°	.94	1.20	106°	.77
.50	151°	.93	1.30	99°	.73
.60	145°	.91	1.40	91°	.70
.70	139°	.89	1.50	83°	.65

Arc of contact is on small sheave

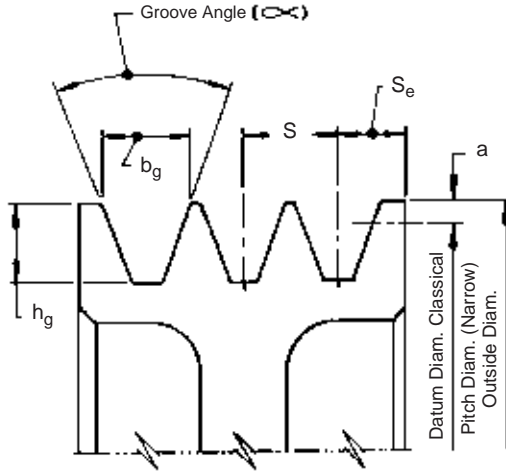
d=Diam. of small sheave.

D=Diam. of large sheave.

C=Center distance.



V-Belt Sheave Groove Dimensions



Narrow

Belt Section	Outside Diameter Range	∞ ± 0.25	b_g $\pm .005$	h_g Min.	a	S $\pm .015$	S _e	
3VX, 3V	LESS THAN 3.50	36°	.350	0.340	0.025	0.406	0.344	+.094 -.000
	3.50 TO 6.00	38°						
	6.01 to 12.00	40°						
	Over 12.00	42°						
5VX, 5V	Less than 10.00	38°	.600	0.590	.050	0.688	0.500	+.125 -.000
	10.00 to 16.00	40°						
	Over 16.00	42°						
8VX, 8V	Less than 16.00	38°	1.000	0.990	.100	1.125	0.750	+.250 -.000
	16.00 to 22.40	40°						
	Over 22.40	42°						

Classical

Belt Section	Pitch Diameter		m + 0.33	b_g	h_g Min.	2a ref *	S $\pm .025$	S _e		
	Min. Recom.	Range								
AX, A	3.0	2.6 to 5.4	34°	.494	±.005	.460	.125	.625	.375	+.090 -.062
		Over 5.4	38°	.504						
BX, B	5.4	4.6 to 7.0	34°	.637	±.006	.550	.175	.750	.500	+.120 -.065
		Over 7.0	38°	.650						
A, B AX, BX	-	To 7.0	34°	.612	±.006	.612	A (.634/.602) B (.333/.334)	.750	.500	+.120 -.065
		Over 7.0	38°	.625						
CX, C	9.0	7.0 to 7.99	34°	.879	±.007	.750	.200	1.000	.688	+.160 -.070
		8.0 to 12.0	36°	.887						
		Over 12.0	38°	.895						
DX, D	13.0	12.0 to 12.9	34°	1.259	±.008	1.020	.300	1.438	.875	+.220 -.080
		13.0 to 17.0	36°	1.271						
		Over 17.0	38°	1.283						
E	21.0	18.0 to 24.0	36°	1.527	±.010	1.300	.400	1.750	1.125	+.250 -.000
		Over 24.0	38°	1.542						


Note—For complete manufacturing tolerances – see RMA, MPTA, Narrow/Classical V-belt Standards.

* Datum diameter, not pitch diameter.

BELTS PAGES PT7-28	SELECTION: WEDGE PAGES PT7-42	SELECTION: CLASSICAL PAGES PT7-84	ENGINEERING/TECHNICAL PAGES PT7-124
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More Power and Life From V-Drives

TROUBLE AREA AND OBSERVATION	CAUSE	REMEDY
<p>BELT STRETCH BEYOND TAKE-UP</p> <p>Belt stretch unequally.</p> <p>All belts stretch about equally.</p>	<p>Mis-aligned drive, unequal work done by belts.</p> <p>Belt tensile member broken from improper installation.</p> <p>Insufficient take-up allowance.</p> <p>Greatly overloaded or underdesigned drive.</p>	<p>Realign and re-tension drive.</p> <p>Replace all belts with new matched set properly installed.</p> <p>Check take-up and follow allowance on page .</p> <p>Redesign.</p>
<p>SHORT BELT LIFE</p> <p>Relatively rapid failure; no visible reason.</p> <p>Sidewalls soft and sticky. Low adhesion between cover plies. Cross-section swollen.</p> <p>Sidewalls dry and hard. Low adhesion between cover plies. Bottom belt cracked.</p>	<p>Tensile members damaged through improper installation.</p> <p>Worn sheave grooves (check with groove gauge)</p> <p>Under-designed drive.</p> <p>Oil or grease on belts or sheaves.</p> <p>High temperatures.</p>	<p>Replace with all new matched set, properly installed.</p> <p>Replace sheaves.</p> <p>Redesign.</p> <p>Remove source of oil or grease. Clean belts and grooves with cloth moistened with alcohol.</p> <p>Remove source of heat. Ventilate drive better.</p>
<p>BELT TURN OVER</p> 	<p>Excess lateral belt whip.</p> <p>Foreign material in grooves.</p> <p>Mis-aligned sheaves.</p> <p>Worn sheave grooves (check with groove gauge).</p> <p>Tensile member broken through improper installation.</p> <p>Incorrectly placed flat idler pulley.</p>	<p>Use Banded belt.</p> <p>Remove material—shield drive.</p> <p>Realign the drive.</p> <p>Replace sheave.</p> <p>Replace with new matched set properly installed.</p> <p>Carefully align flat idler on slack side of drive as close as possible to driver sheave.</p>
<p>DETERIORATION OF RUBBER COMPOUNDS USED IN BELT</p> <p>Extreme cover wear.</p> <p>Spin burns on belt.</p> <p>Bottom of belt cracked.</p> <p>Broken belts.</p>	<p>Belt dressing.</p> <p>Belts rub against belt guard or other obstruction.</p> <p>Belts slip under starting or stalling load.</p> <p>Too small sheaves.</p> <p>Object falling into or hitting drive.</p>	<p>Never use dressing on V-belts. Clean with cloth moistened with alcohol.</p> <p>Tension drive properly to prevent slip.</p> <p>Remove obstruction or align drive to give needed clearance.</p> <p>Tighten drive until slipping stops.</p> <p>Redesign for larger sheaves.</p> <p>Replace with new matched set of belts.</p> <p>Provide shield for drive.</p>
<p>IMPROPER DRIVEN SPEED</p> <p>Incorrect driveR-driveN ratio.</p> <p>Spin burns on belt.</p>	<p>Design error.</p> <p>Belt slip.</p>	<p>Use correct sheave sizes.</p> <p>Re-tension drive until belt stops slipping.</p>
<p>BELT NOISE</p> <p>HOT BEARINGS</p> <p>Drive over-tensioned.</p> <p>Sheaves too small.</p> <p>Poor bearing condition.</p> <p>Sheaves out too far on shaft.</p> <p>Drive under-tensioned.</p>	<p>Belt slip.</p> <p>Worn grooves-belts bottoming and will not transmit power until over-tensioned.</p> <p>Improper tensioning.</p> <p>Motor manufacturers sheave diameters not followed.</p> <p>Underdesigned bearing or poor bearing maintenance.</p> <p>Error or obstruction problem.</p> <p>Belts slipping and causing heat build-up.</p>	<p>Re-tension drive until it stops slipping.</p> <p>Replace sheaves. Tension drive properly.</p> <p>Re-tension drive.</p> <p>Redesign drive.</p> <p>Observe recommended bearing design and maintenance.</p> <p>Place sheaves as close as possible to bearings. Remove any obstruction preventing this.</p> <p>Re-tension drive.</p>



NOTES



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

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FHP Drives

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Selection

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FEATURES/BENEFITS



TORQUE-TAMER

FHP Light Duty V-Drives

The Economical Option For Smaller Drives

- Fractional thru 10 HP at 1750 RPM
- One or Two Groove
- Fixed Pitched or Variable Pitch
- Use Standard Belts
 - FHP: 3L-4L-5L
 - SL Classic: A or B Section
 - Classic Cog: AX or BX

Bushings

V-Drives



QT-Bushed Sheave

- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Durable Cast Iron Construction
- Industry Standard H-Style Bushing
- Interchangeable with QT and D Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing Available in Select Bores
- Inch and Metric Bores
- Static Balance
- Suitable for Higher Capacity AX or BX Classic Cog Belts

Variable Pitch Sheaves

- One and Two Grooves
- Selections Available up to 30HP, 1750 RPM
- Durable Cast Iron Construction
- Static Balance
- Driven Sheave Options:
 - FHP Bored-to-Size
 - FHP QT-Bushed
 - Taper-Lock Dual Duty
 - QD Combination Duty
- Belt Options Include FHP, Classical
- Adjustment Range 1.3:1 (Approx.)
- Positive Locking of Adjustment Setting
- New Easy Selection Procedure
- Applications Include: Conveyors, Pumps, Fans, Mixers, Ventilators, etc.



FHP

Drives Component Accessories

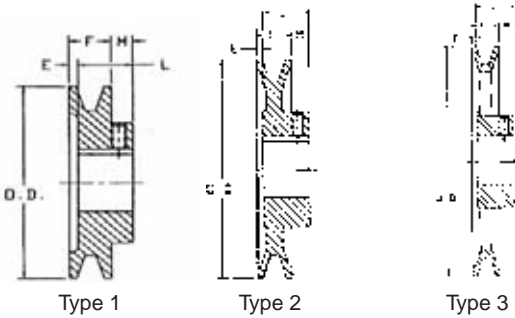
Finish Bore Sheaves

- Sizes AK, 2AK, BK, 2BK
- Bored-to-Size
- Keyway and Setscrew
- Durable Cast Iron Construction
- Static Balance
- Stocked in Popular Sizes
- Not Recommended for Classic Cog Belts



AK One Groove FHP Sheaves

- Bored-to-Size
- Keyway and Setscrew
- For A Belts (FHP Belts not matched)
- Cast Iron
- Static Balance



Standard Keyseat Dimensions

Shaft Dia.	Keyway
1/2	No Keyway
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16	3/8 x 3/16

BTS SHEAVES FOR "A" BELTS - ONE GROOVE

O.D.	Datum Dia. 3L (Ø) 4L(A)	SHV NO.	Bore/Part Number											Type	No. of Arms	Dimensions			Hub Dia	WT LBS		
			1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8	1-7/16			E	F	L				
1.55	---	1.30	AK15	121626	121627											1	N/A	0.44	0.66	1.09	1.25	0.40
1.65	---	1.40	AK16													1	N/A	0.44	0.66	1.09	1.25	0.40
1.75	---	1.50	AK17	121631	121632	121633										1	N/A	0.44	0.66	0.94	1.56	0.40
1.85	---	1.60	AK18													1	N/A	0.44	0.66	0.94	1.56	0.40
1.95	---	1.70	AK19													1	N/A	0.44	0.66	0.94	1.56	0.50
2.05	1.45	1.80	AK20	121636	121637	121638										1	N/A	0.44	0.66	0.94	1.56	0.50
2.15	1.56	1.90	AK21	127100	127101	127102										1	N/A	0.44	0.66	0.94	1.56	0.50
2.25	1.66	2.00	AK22	127436	127437	127438										1	N/A	0.44	0.66	0.94	1.69	0.60
2.35	1.76	2.10	AK23	121642	121643	121644	121645									1	N/A	0.44	0.66	0.94	1.69	0.60
2.45	1.86	2.20	AK24													1	N/A	0.44	0.66	0.94	1.69	0.60
2.55	1.96	2.30	AK25	121649	121650	121651	121652									2	N/A	0.44	0.66	0.94	1.69	0.60
2.65	2.06	2.40	AK26	127103	127104	127105										2	N/A	0.44	0.66	0.94	1.69	0.80
2.75	2.16	2.50	AK27	127107	121503	127108										2	N/A	0.44	0.66	0.94	1.69	0.80
2.85	2.26	2.60	AK28	121655	121656	121657	121658		121659							2	N/A	0.44	0.66	0.94	1.69	0.90
3.05	2.46	2.80	AK30	121662	121663	121664	121665		121666							2	N/A	0.44	0.66	0.94	1.69	0.90
3.25	2.66	3.00	AK32	121669	121670	121671	121672		121673	121674						2	N/A	0.44	0.66	0.94	1.69	1.00
3.45	2.86	3.20	AK34	121676	121677	121678	121679		121680	121681						2	N/A	0.44	0.66	0.94	1.69	1.10
3.55	2.96	3.30	AK35													1	N/A	0.44	0.66	0.94	1.69	1.10
3.75	3.16	3.50	AK39	121530	121531	121532	121533	127110	121534	121535						2	N/A	0.47	0.75	1.16	1.81	1.60
3.95	3.36	3.70	AK41	121536	121537	121538	121539	127111	121540	121541						2	N/A	0.47	0.75	1.16	1.81	1.70
4.25	3.66	4.00	AK44	121542	121543	121544	121545	127112	121546	121547						3	N/A	0.47	0.75	1.16	1.81	1.90
4.45	3.86	4.20	AK46	121548	121549	121550	121551	127113	121552	121553						3	N/A	0.47	0.75	1.16	1.81	1.90
4.75	4.16	4.50	AK49	121554	121555	121556	121557	127114	121558	121559						3	N/A	0.47	0.75	1.16	1.81	1.90
4.95	4.36	4.70	AK51	121560	121561	121562	121563		121564	121565						3	3	0.47	0.75	1.16	2.06	2.20
5.25	4.66	5.00	AK54	121566	121567	121568	121569	127115	121570	121571	121572					3	3	0.47	0.75	1.16	2.06	2.20
5.45	4.86	5.20	AK56	121573	121574	121575	121576	127116	121577	121578	121579					3	3	0.47	0.75	1.16	2.06	2.30
5.75	5.16	5.50	AK59	127117	127118	127119	127120	127121	127122	127123	127124					3	3	0.47	0.75	1.16	2.13	2.50
5.95	5.36	5.70	AK61	121580	121581	121582	121583	127125	121584	121585	121586					3	3	0.47	0.75	1.16	2.13	2.50
6.25	5.66	6.00	AK64	121587	121588	121589	121590	127126	121591	121592	121593					3	3	0.47	0.75	1.16	2.13	2.80
6.45	5.86	6.20	AK66	127209	121594	121595			127128							3	3	0.47	0.75	1.16	2.13	2.80
6.75	6.16	6.50	AK69			127129			127130	127131						3	3	0.72	0.75	1.47	2.38	3.70
6.95	6.36	6.70	AK71		127132	121596			121597	127133						3	6	0.72	0.75	1.47	2.50	3.90
7.25	6.66	7.00	AK74	121598	121599	121600		127134	121601	121602	127135	127136				3	6	0.72	0.75	1.47	2.50	4.10
7.75	7.16	7.50	AK79			127138			127139	127140						3	6	0.72	0.75	1.47	2.50	4.60
7.95	7.36	7.70	AK81													3	6	0.72	0.75	1.47	2.50	4.60
8.25	7.66	8.00	AK84	127142	121609	121610		127143	121611		121612					3	6	0.72	0.75	1.47	2.50	4.70
8.75	8.16	8.50	AK89			127145			127146	127147						3	6	0.72	0.75	1.47	2.50	4.90
8.95	8.36	8.70	AK91													3	6	0.72	0.75	1.47	2.50	5.00
9.25	8.66	9.00	AK94	127210	127211	121800		127212	127213		127214	121803				3	6	0.72	0.75	1.47	2.50	5.30
9.75	9.16	9.50	AK99			127149			127150							3	6	0.72	0.75	1.47	2.50	5.50
10.25	9.66	10.00	AK104		121809	121810			121811		127216	127217	127218	127219		3	6	0.72	0.75	1.47	2.50	5.70
10.75	10.16	10.50	AK109			127152			127153				127220	127154		3	6	0.72	0.75	1.47	2.50	6.00
11.25	10.66	11.00	AK114			127155			127156					127223		3	6	0.72	0.75	1.47	2.50	6.30
12.25	11.66	12.00	AK124			121821			121823		127224	127226		127227		3	6	0.72	0.75	1.47	2.50	7.10
13.25	12.66	13.00	AK134			121620			121621		121622			127106	127109	3	6	0.72	0.75	1.47	2.50	7.70
14.25	13.66	14.00	AK144			121623			121624		121628			121629		3	6	0.72	0.75	1.47	2.50	8.60
15.25	14.66	15.00	AK154			121634			121639		121640			121646		3	6	0.72	0.75	1.47	2.50	9.60
18.25	17.66	18.00	AK184			121647			121653		121654			121660		3	6	0.72	0.75	1.47	2.50	12.70

P.D. for A same as O.D.

P.D. for 3L = Datum Dia. + .25

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SELECTION/DIMENSIONS



2AK Two Groove FHP Sheaves

TORQUE-TAMER

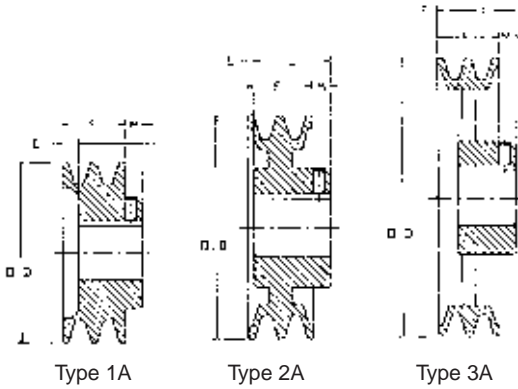
Bushings

V-Drives

FHP

Drives Component Accessories

- Bored-to-Size
- Keyway and Setscrew
- For A Belts (FHP Belts not matched)
- Cast Iron
- Static Balance



Standard Keyseat Dimensions

Shaft Dia.	Keyway
1/2	No Keyway
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16	3/8 x 3/16

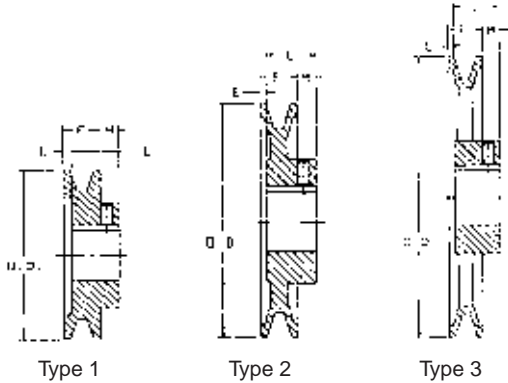
BTS SHEAVES FOR "A" BELTS - TWO GROOVE																					
O.D.	Datum Dia.		SHV NO.	Bore/Part Number										Type	No. of Arms	Dimensions			Hub Dia	WT LBS	
	3L (O)	4L(A)		1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-3/8	1-7/16			E	F	L			
2.05	1.46	1.80	2AK20	121835	121836	121837	121838							1A	N/A	0.47	1.38	1.66	1.63	0.9	
2.15	1.56	1.90	2AK21	127158	127159	127160								1A	N/A	0.47	1.38	1.66	1.63	1.0	
2.25	1.66	2.00	2AK22	121839	121840	121841	121842		121843					1A	N/A	0.47	1.38	1.66	1.63	1.1	
2.35	1.76	2.10	2AK23		127161	127162	127163		127229					1A	N/A	0.47	1.38	1.66	1.88	1.3	
2.55	1.96	2.30	2AK25	121844	121845	121846	121847		121848	121849				1A	N/A	0.47	1.38	1.66	1.88	1.5	
2.65	2.06	2.40	2AK26		127164	127165	127166							1A	N/A	0.47	1.38	1.66	1.88	1.6	
2.75	2.16	2.50	2AK27	121850	121851	121852	121853		121854	121855				1A	N/A	0.47	1.38	1.66	1.88	1.7	
2.85	2.26	2.60	2AK28		127169	127170	127171		127172					1A	N/A	0.47	1.38	1.66	1.88	1.8	
3.05	2.46	2.80	2AK30	121856	121857	121858	121859		121860	121861				1A	N/A	0.47	1.38	1.66	1.88	2.0	
3.25	2.66	3.00	2AK32	121862	121863	121864	121865		121866	121867				1A	N/A	0.47	1.38	1.66	1.88	2.3	
3.45	2.86	3.20	2AK34	121868	121869	121870	121871		121872	121873				1A	N/A	0.47	1.38	1.66	1.88	2.6	
3.75	3.16	3.50	2AK39	121874	121875	121876	121877		121878	121879				2A	N/A	0.47	1.38	1.34	2.13	2.6	
3.95	3.36	3.70	2AK41		121959	121880	121881		121882	121883				2A	N/A	0.47	1.38	1.34	2.13	2.8	
4.25	3.66	4.00	2AK44		121884	121885	121886		121887	121888				2A	N/A	0.47	1.38	1.34	2.13	3.2	
4.45	3.86	4.20	2AK46				121891		121892	121893				2A	N/A	0.47	1.38	1.34	2.13	3.2	
4.75	4.16	4.50	2AK49			121895	121896		121897	127230			127231	2A	N/A	0.47	1.38	1.34	2.25	3.6	
4.95	4.36	4.95	2AK51			121899	121900		121901	127439			127232	2A	N/A	0.47	1.38	1.34	2.25	3.8	
5.25	4.66	5.25	2AK54		121902	121903	121904		121905	127233			127234	3A	3	0.47	1.38	1.34	2.25	3.8	
5.45	4.86	5.45	2AK56		121906	121907			121909	127440			127235	3A	3	0.47	1.38	1.34	2.25	3.8	
5.75	5.16	5.50	2AK59						121910	127236			127237	3A	3	0.47	1.38	1.34	2.25	3.9	
5.95	5.36	5.70	2AK61			121911	121912		121913	127238			127240	3A	3	0.47	1.38	1.34	2.25	4.0	
6.25	5.66	6.00	2AK64			121914			121916	127241	121917		127242	121918	3A	3	0.47	1.38	1.34	2.50	4.9
7.25	6.66	7.00	2AK74			121919			121920	127243	121921		127244	121922	3A	3	0.34	1.38	1.59	2.50	6.0
8.25	7.66	8.00	2AK84			121923		121924	121925	127245	121926		127246	121927	3A	3	0.34	1.38	1.59	2.50	6.6
9.25	8.66	9.00	2AK94			121928			121930	127248	121931		127249	121932	3A	3	0.34	1.38	1.59	2.50	7.5
10.25	9.66	10.00	2AK104			121933		121934	121935				121937	3A	3	0.34	1.38	1.59	2.50	8.5	
11.25	10.66	11.00	2AK114						121939				121940	127250	3A	3	0.34	1.38	1.59	2.50	9.3
12.25	11.66	12.00	2AK124						121943				121944		3A	3	0.34	1.38	1.59	2.50	10.1
13.25	12.66	13.00	2AK134										121947		3A	3	0.34	1.38	1.59	2.50	10.9
14.25	13.66	14.00	2AK144						121949						3A	3	0.34	1.38	1.59	2.50	12.2
15.25	14.66	15.00	2AK154										121953		3A	3	0.34	1.38	1.59	2.50	13.8
18.25	17.66	18.00	2AK184										121957		3A	3	0.34	1.38	1.59	2.50	17.0

P.D. for A same as O.D.
P.D. for 3L = Datum Dia. + .25

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BK One Groove FHP Sheaves



- Bored-to-Size
- Keyway and Setscrew
- For 4L-5L-A-B Belts
- Cast Iron
- Static Balance

Standard Keyseat Dimensions

Shaft Dia.	Keyway
1/2	No Keyway
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16	3/8 x 3/16

BTS SHEAVES FOR "B" BELTS - ONE GROOVE																						
O.D.	Datum Dia.		SHV NO.	Bore/Part Number											Type	No. of Arms	Dimensions			Hub Dia	WT LBS	
	4L (A)	5L (B)		1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8	1-7/16			E	F	L			
2.15	---	1.80	BK20	121682	121683	121684										1	N/A	0.44	0.81	1.09	1.69	0.70
2.25	---	2.00	BK22													1	N/A	0.44	0.81	1.09	1.69	0.80
2.35	---	2.10	BK23	121685	121686	121687	121688									1	N/A	0.44	0.81	1.09	1.69	0.80
2.45	1.80	2.20	BK24	121713	121714	121715										1	N/A	0.44	0.81	1.09	1.69	0.90
2.55	1.90	2.30	BK25	121691	121692	121693	121694									1	N/A	0.44	0.81	1.09	1.69	0.90
2.65	2.00	2.40	BK26	121716	121717	121718	121719									1	N/A	0.44	0.81	1.09	1.69	1.00
2.75	2.10	2.50	BK27	121697	121698	121699	121700									2	N/A	0.44	0.81	1.09	1.81	1.10
2.95	2.20	2.60	BK28	121706	121707	121708	121709									2	N/A	0.44	0.81	1.09	1.81	1.10
3.15	2.40	2.80	BK30	121718	121718	121718	121718									2	N/A	0.44	0.81	1.09	1.81	1.30
3.25	2.50	2.90	BK31	121714	121715	121716	121717									2	N/A	0.44	0.81	1.09	1.81	1.30
3.35	2.60	3.00	BK32	121718	121718	121718	121718									2	N/A	0.44	0.81	1.09	1.81	1.30
3.55	2.80	3.20	BK34	121722	121723	121724	121725									2	N/A	0.44	0.88	1.19	1.81	1.60
3.75	3.00	3.40	BK36	120850	120851	120852	120853									2	N/A	0.44	0.88	1.19	1.81	1.70
3.95	3.20	3.60	BK40	120856	120857	120858	120859									2	N/A	0.44	0.88	1.19	1.81	1.80
4.25	3.50	3.90	BK45	120862	120863	120864	120865									2	N/A	0.44	0.88	1.19	1.81	2.10
4.35	3.60	4.00	BK46													1	N/A	0.44	0.88	1.19	1.81	2.10
4.45	3.70	4.10	BK47	120874	120875	120876	120877									2	N/A	0.44	0.88	1.19	2.06	2.10
4.75	4.00	4.40	BK48													1	N/A	0.44	0.88	1.19	1.81	2.10
4.75	4.00	4.40	BK50	121010	121011	121012	121013	127206	121014	121015						3	3	0.44	0.88	1.19	1.81	2.20
4.95	4.20	4.60	BK52	120885	120886	120887	120888									3	3	0.44	0.88	1.19	1.81	2.20
5.25	4.50	4.90	BK55	120892	120893	120894	120895									3	3	0.44	0.88	1.19	2.06	2.50
5.45	4.70	5.10	BK57		120899	120900	120901	127225	120902	120903						3	3	0.44	0.88	1.19	2.06	2.60
5.75	5.00	5.40	BK60	120910	120911	120912	120913									3	3	0.44	0.88	1.19	2.13	2.70
5.95	5.20	5.60	BK62	120917	120918	120919	120920	127239	120921	120922	120923					3	3	0.44	0.88	1.19	2.38	3.20
6.25	5.50	5.90	BK65		120924	120925										3	3	0.44	0.88	1.19	2.38	3.30
6.45	5.70	6.10	BK67		120929	120930										3	3	0.44	0.88	1.19	2.38	3.60
6.75	6.00	6.40	BK70		120942	120943		127247	120945	120946	120947					3	3	0.66	0.88	1.47	2.5	4.00
6.95	6.20	6.60	BK72			120950										3	3	0.66	0.88	1.47	2.5	4.10
7.25	6.50	6.90	BK75			120952										3	3	0.66	0.88	1.47	2.5	4.50
7.45	6.70	7.10	BK77			127254										3	3	0.66	0.88	1.47	2.5	4.50
7.75	7.00	7.40	BK80		120954	120955	120956									3	6	0.66	0.88	1.47	2.5	4.80
8.25	7.50	7.90	BK85			121661										3	6	0.66	0.88	1.47	2.5	5.10
8.75	8.00	8.40	BK90			127260	120962	127261	120963	120847	127262					3	6	0.66	0.88	1.47	2.5	5.40
9.25	8.50	8.90	BK95			127265										3	6	0.66	0.88	1.47	2.5	5.60
9.75	9.00	9.40	BK100			120972	120973	127270	120974	120975	120976	120977	127305	120978		3	6	0.66	0.88	1.47	2.5	6.20
10.25	9.50	9.90	BK105													3	6	0.66	0.88	1.47	2.5	6.30
10.75	10.00	10.40	BK110			120980										3	6	0.66	0.88	1.47	2.5	6.60
11.25	10.50	10.90	BK115													3	6	0.66	0.88	1.47	2.5	7.20
11.75	11.00	11.40	BK120			120990										3	6	0.66	0.88	1.47	2.5	7.50
12.75	12.00	12.40	BK130			120995										3	6	0.66	0.88	1.47	2.5	8.50
13.75	13.00	13.40	BK140			127276										3	6	0.66	0.88	1.47	2.5	9.80
15.75	15.00	15.40	BK160													3	6	0.66	0.88	1.47	2.5	11.20

P.D. for A belts = Datum Dia. + .38

P.D. for B belts = Datum Dia. + .413

FEATURES AND BENEFITS PAGE PT8-2	SELECTION/DIMENSIONS PAGES PT8-3	SELECTION PAGES PT8-10
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SELECTION/DIMENSIONS



TORQUE-TAMER

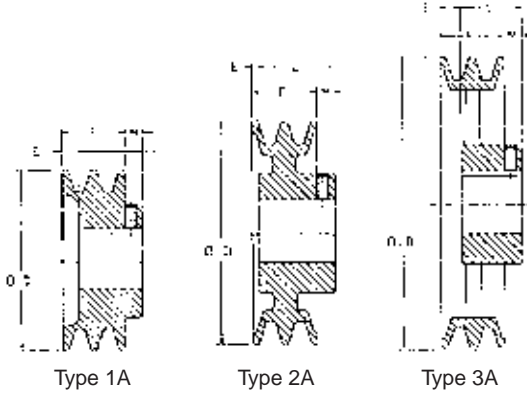
Bushings

V-Drives

FHP

Drives Component Accessories

2BK Two Groove FHP Sheaves



- Bored-to-Size
- Keyway and Setscrew
- For A and B Belts (FHP Belts not matched)
- Cast Iron
- Static Balance

Standard Keyseat Dimensions

Shaft Dia.	Keyway
1/2	No Keyway
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16	3/8 x 3/16

BTS SHEAVES FOR "B" BELTS - TWO GROOVE

O.D.	Datum Dia.		SHV NO.	Bore/Part Number									Type	No. of Arms	Dimensions			Hub Dia	WT LBS
	4L (A)	5L (B)		1/2	5/8	3/4	7/8	1	1-1/8	1-3/16	1-3/8	1-7/16			E	F	L		
2.55	1.90	2.30	2BK25	121730	121731	121732	121733	121734					1A	N/A	0.47	1.75	1.97	1.88	1.80
2.75	2.10	2.50	2BK27	121736	121737	121738	121739	121740	121741				1A	N/A	0.47	1.75	1.97	1.88	2.10
2.95	2.20	2.60	2BK28	121742	121743	121744	121745	121746	121747				1A	N/A	0.47	1.75	1.97	1.88	2.20
3.15	2.40	2.80	2BK30	127281	127282	127283	127284	127285	127286				1A	N/A	0.47	1.75	1.97	1.88	2.60
3.35	2.60	3.00	2BK32	121748	121749	121750	121751	121752					1A	N/A	0.47	1.75	1.97	1.88	2.90
3.55	2.80	3.20	2BK34		121753	121754	121755	121756	121757				1A	N/A	0.47	1.75	1.97	1.88	3.30
3.75	3.00	3.40	2BK36			121759	121760	121761	121762			127287	1A	N/A	0.47	1.75	1.97	2.13	3.70
3.95	3.20	3.60	2BK40		121763	121764	121765	121766	121767			121768	2A	N/A	0.47	1.75	1.97	2.13	3.70
4.25	3.50	3.90	2BK45					121772	121773			121774	2A	N/A	0.47	1.75	1.97	2.13	3.90
4.45	3.70	4.10	2BK47				121776	121777	121778				2A	N/A	0.47	1.75	1.97	2.13	4.20
4.75	4.00	4.40	2BK50				121780	121782	121783			121784	2A	N/A	0.47	1.75	1.97	2.13	4.70
4.95	4.20	4.60	2BK52					121786	121787	121788		121789	2A	N/A	0.47	1.75	1.97	2.13	5.00
5.25	4.50	4.90	2BK55						121793			127288	2A	N/A	0.47	1.75	1.97	2.25	5.10
5.45	4.70	5.10	2BK57					121796	121797			127289	2A	N/A	0.47	1.75	1.97	2.25	5.40
5.75	5.00	5.40	2BK60				121798	121799	121960	121961		127290	2A	N/A	0.47	1.75	1.97	2.25	5.70
5.95	5.20	5.60	2BK62						121963	121964		127291	2A	N/A	0.47	1.75	1.97	2.25	5.70
6.25	5.50	5.90	2BK65						121966	121967		127292	3A	3	0.47	1.75	1.97	2.25	5.70
6.45	5.70	6.10	2BK67						121969	121970		127293	3A	3	0.47	1.75	1.97	2.25	5.70
6.75	6.00	6.40	2BK70				121971	121972	127294	121973	127295	121974	3A	3	0.34	1.75	1.59	2.50	6.50
7.75	7.00	7.40	2BK80				121975	121977	127296	121978	127297	121979	3A	6	0.34	1.75	1.59	2.50	7.90
8.75	8.00	8.40	2BK90				121980		121981	127298		121982	3A	6	0.34	1.75	1.59	2.50	8.90
9.75	9.00	9.40	2BK100				121984		121986			121987	3A	6	0.34	1.75	1.59	2.50	10.10
10.75	10.00	10.40	2BK110						121989			121990	3A	6	0.34	1.75	1.59	2.50	11.10
11.75	11.00	11.40	2BK120						121993			121994	3A	6	0.34	1.75	1.59	2.50	12.20
12.75	12.00	12.40	2BK130						121996			121997	3A	6	0.34	1.75	1.59	2.88	14.00
13.75	13.00	13.40	2BK140						121703			121704	3A	6	0.34	1.75	1.59	2.88	15.10
15.75	15.00	15.40	2BK160						121712			121713	3A	6	0.34	1.75	1.59	2.88	17.90
18.75	18.00	18.40	2BK190									121728	3A	6	0.34	1.75	1.59	2.88	22.00

P.D. for A belts = Datum Dia. + .38.
P.D. for B belts = Datum Dia. + .413

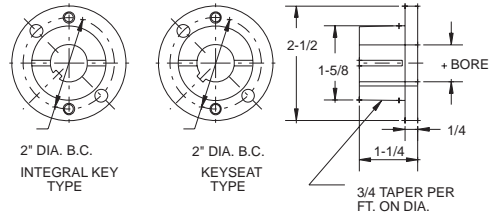
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AKQT and 2AKQT QT-Bushed Sheaves



QT-Bushings



QT-Bushed Sheaves

- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Uses QT-Style Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing —Available in Select Bores
- Inch and Metric Bores
- Suitable for Higher Capacity AX or BX Classic Cog Belts

QT BUSHED SHEAVES FOR "A" BELTS - ONE GROOVE										
O.D.	Datum Dia.		Sheave	P/N	Type	Dimensions				WT LBS
	3L (0)	4L(A)				E	F	L	M	
3.05	2.46	2.80	AK30QT	121017	E1	0.38	0.75	1.25	0.38	1.7
3.25	2.66	3.00	AK32QT	121018	E1	0.38	0.75	1.25	0.38	1.8
3.45	2.86	3.20	AK34QT	121019	E1	0.38	0.75	1.25	0.38	1.8
3.75	3.16	3.50	AK39QT	121020	C2	0.06	0.75	1.25	0.56	2.0
3.95	3.36	2.70	AK41QT	121021	C2	0.06	0.75	1.25	0.56	2.2
4.25	3.66	4.00	AK44QT	121022	C2	0.06	0.75	1.25	0.56	2.5
4.45	3.86	4.20	AK46QT	121023	C2	0.06	0.75	1.25	0.56	2.5
4.75	4.16	4.50	AK49QT	121024	C2	0.06	0.75	1.25	0.56	2.7
4.95	4.36	4.70	AK51QT	121025	C2	0.06	0.75	1.25	0.56	2.9
5.25	4.66	5.00	AK54QT	121026	C2	0.06	0.75	1.25	0.56	2.6
5.45	4.86	5.20	AK56QT	121027	C2	0.06	0.75	1.25	0.56	2.9
5.75	5.16	5.50	AK59QT	121028	C2	0.06	0.75	1.25	0.56	3.0
5.95	5.36	5.70	AK61QT	121029	D3	0.06	0.75	1.25	0.56	3.1
6.25	5.66	6.00	AK64QT	121030	D3	0.06	0.75	1.25	0.56	3.3
6.45	5.86	6.20	AK66QT	121031	D3	0.06	0.75	1.25	0.56	3.4
6.75	6.16	6.50	AK69QT	121032	D3	0.06	0.75	1.25	0.56	3.8
6.95	6.36	6.70	AK71QT	121033	D3	0.06	0.75	1.25	0.56	3.8
7.25	6.66	7.00	AK74QT	121034	D3	0.06	0.75	1.25	0.56	3.9
7.75	7.16	7.50	AK79QT	121035	D3	0.06	0.75	1.25	0.56	4.1
8.25	7.66	8.00	AK84QT	121036	D3	0.06	0.75	1.25	0.56	4.2
8.75	8.16	8.50	AK89QT	121037	D3	0.06	0.75	1.25	0.56	4.6
9.25	8.66	9.00	AK94QT	121038	D3	0.06	0.75	1.25	0.56	5.0
9.75	9.16	9.50	AK99QT	121039	D3	0.06	0.75	1.25	0.56	5.3
10.25	9.66	10.00	AK104QT	121040	D3	0.06	0.75	1.25	0.56	5.3
10.75	10.16	10.50	AK109QT	121041	D3	0.06	0.75	1.25	0.56	5.7
11.25	10.66	11.00	AK114QT	121042	D3	0.06	0.75	1.25	0.56	6.1
12.25	11.66	12.00	AK124QT	121043	D3	0.06	0.75	1.25	0.56	6.7
13.25	12.66	13.00	AK134QT	121044	D3	0.06	0.75	1.25	0.56	8.0
14.25	13.66	14.00	AK144QT	121045	D3	0.06	0.75	1.25	0.56	8.4
15.25	14.66	15.00	AK154QT	121046	D3	0.06	0.75	1.25	0.56	9.4
18.25	17.66	18.00	AK184QT	121529	D3	0.06	0.75	1.25	0.56	11.9

P.D. for "3L" = Datum + .25
P.D. for "4L" is same as O.D.
Weights are approximate and include Bushing

Size	Part No.	Size	Part No.
BORE/KEYWAY		INTEGRAL KEY	
QT x 3/8-NKS	121129	QT x 3/4-IK	121162
QT x 7/16-NKS	121130	QT x 7/8-IK	121163
QT x 1/2-KW	121131	QT x 1-IK	121164
QT x 9/16-KW	121133	QT x 1-1/8-IK	121186
QT x 5/8-KW	122050	QT x 1-3/16-IK	121187
QT x 11/16-KW	121134	METRIC	
QT x 3/4-KW	122051	QT x 14MM-KW	121148
QT x 13/16-KW	121136	QT x 19MM-KW	121149
QT x 7/8-KW	122052	QT x 20MM-KW	121467
QT x 15/16-KW	121138	QT x 24MM-KW	121150
QT x 1-KW	122053	QT x 25MM-KW	121151
QT x 1-1/16-KW	121140	QT x 28MM-KW	121152
QT x 1-1/8-KW	122054	QT x 30MM-KW	121153
QT x 13/16-KW	122055	QT x 32MM-KW	121154
QT x 1-1/4-KW	122056	REBORABLE	
QT x 15/16-KW	121144	QT x 3/8-NKS	120595
QT x 1-3/8-KW	121145		
QT x 17/16-KW	121146		
QT x 1-1/2-KW	121147		

NOTE: INSTALLATION SCREW SIZE=1/4-20X7/8
TORQUE=55 LB-IN

QT BUSHED SHEAVES FOR "A" BELTS - TWO GROOVES										
O.D.	Datum Dia.		Sheave	P/N	Type	Dimensions				WT LBS
	3L (0)	4L(A)				E	F	L	M	
3.05	2.46	2.80	2AK30QT	121048	E1	1.00	1.38	1.25	0.88	2.0
3.25	2.66	3.00	2AK32QT	121049	E1	1.00	1.38	1.25	0.88	2.3
3.45	2.86	3.20	2AK34QT	121050	E1	0.56	1.38	1.25	0.44	2.4
3.75	3.16	3.50	2AK39QT	121051	E1	0.56	1.38	1.25	0.44	2.4
3.95	3.36	2.70	2AK41QT	121052	A2	0.06	1.38	1.25	0.06	2.5
4.25	3.66	4.00	2AK44QT	121053	A2	0.06	1.38	1.25	0.06	3.0
4.45	3.86	4.20	2AK46QT	121054	A2	0.06	1.38	1.25	0.06	3.1
4.75	4.16	4.50	2AK49QT	121055	A2	0.06	1.38	1.25	0.06	3.7
4.95	4.36	4.70	2AK51QT	121056	A2	0.06	1.38	1.25	0.06	3.8
5.25	4.66	5.00	2AK54QT	121057	A2	0.06	1.38	1.25	0.06	4.0
5.45	4.86	5.20	2AK56QT	121058	A2	0.06	1.38	1.25	0.06	4.2
5.75	5.16	5.50	2AK59QT	121059	D3	0.06	1.38	1.25	0.06	4.2
5.95	5.36	5.70	2AK61QT	121060	D3	0.06	1.38	1.25	0.06	4.2
6.25	5.66	6.00	2AK64QT	121061	D3	0.06	1.38	1.25	0.06	4.5
7.25	6.66	7.00	2AK74QT	121062	D3	0.06	1.38	1.25	0.06	5.5
8.25	7.66	8.00	2AK84QT	121063	D3	0.06	1.38	1.25	0.06	5.4
9.25	8.66	9.00	2AK94QT	121064	D3	0.06	1.38	1.25	0.06	6.7
10.25	9.66	10.00	2AK104QT	121065	D3	0.06	1.38	1.25	0.06	8.3
11.25	10.66	11.00	2AK114QT	121066	D3	0.06	1.38	1.25	0.06	9.1
12.25	11.66	12.00	2AK124QT	121067	D3	0.06	1.38	1.25	0.06	10.1
13.25	12.66	13.00	2AK134QT	121068	D3	0.06	1.38	1.25	0.06	12.0
14.25	13.66	14.00	2AK144QT	121069	D3	0.06	1.38	1.25	0.06	12.5
15.25	14.66	15.00	2AK154QT	121070	D3	0.06	1.38	1.25	0.06	13.9
18.25	17.66	18.00	2AK184QT	121008	D3	0.06	1.38	1.25	0.06	17.4



SELECTION/DIMENSIONS



TORQUE-TAMER

Bushings

V-Drives

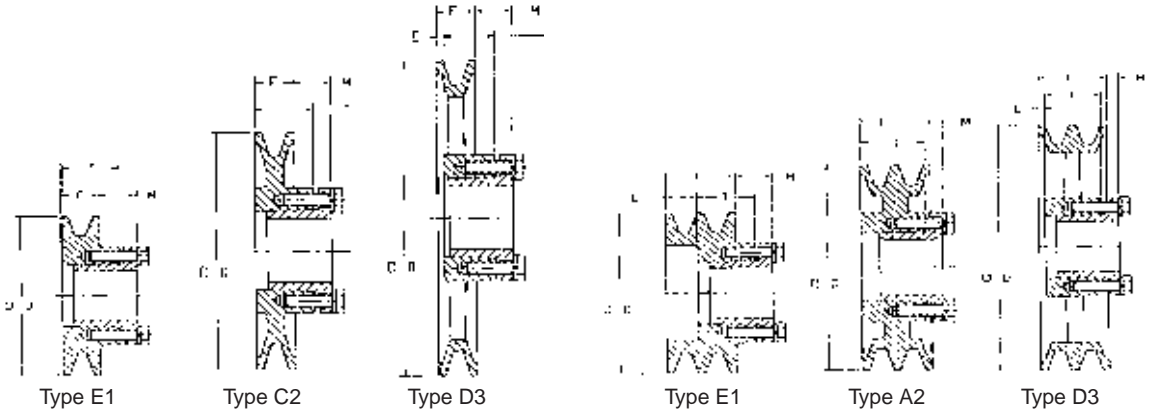
FHP

Drives Component Accessories

BKQT and 2BKQT QT-Bushed Sheaves

One Groove

Two Groove



QT BUSHED SHEAVES FOR "B" BELTS - ONE GROOVE										
O.D.	Datum Dia.		Sheave	P/N	Type	Dimensions				WT LBS
	4L (A)	5L(B)				E	F	L	M	
3.15	2.40	2.80	BK30QT	121072	E1	0.50	0.88	1.25	0.88	1.8
3.35	2.60	3.00	BK32QT	121073	E1	0.50	0.88	1.25	0.88	2.0
3.55	2.80	3.20	BK34QT	121074	E1	0.50	0.88	1.25	0.88	2.1
3.75	3.00	3.40	BK36QT	121075	C2	0.06	0.88	1.25	0.44	2.2
3.95	3.20	3.60	BK40QT	121076	C2	0.06	0.88	1.25	0.44	2.2
4.25	3.50	3.90	BK45QT	121077	C2	0.06	0.88	1.25	0.44	2.4
4.45	3.70	4.10	BK47QT	121078	C2	0.06	0.88	1.25	0.44	2.6
4.75	4.00	4.40	BK50QT	121079	C2	0.06	0.88	1.25	0.44	2.6
4.95	4.20	4.60	BK52QT	121080	C2	0.06	0.88	1.25	0.44	2.7
5.25	4.50	4.90	BK55QT	121081	C2	0.06	0.88	1.25	0.44	3.3
5.45	4.70	5.10	BK57QT	121082	D3	0.06	0.88	1.25	0.44	3.3
5.75	5.00	5.40	BK60QT	121083	D3	0.06	0.88	1.25	0.44	3.3
5.95	5.20	5.60	BK62QT	121084	D3	0.06	0.88	1.25	0.44	3.3
6.25	5.50	5.90	BK65QT	121085	D3	0.06	0.88	1.25	0.44	3.4
6.45	5.70	6.10	BK67QT	121086	D3	0.06	0.88	1.25	0.44	3.5
6.75	6.00	6.40	BK70QT	121087	D3	0.13	0.88	1.25	0.50	3.5
6.95	6.20	6.60	BK72QT	121088	D3	0.13	0.88	1.25	0.50	3.7
7.25	6.50	6.90	BK75QT	121089	D3	0.13	0.88	1.25	0.50	3.9
7.45	6.70	7.10	BK77QT	121090	D3	0.13	0.88	1.25	0.50	4.2
7.75	7.00	7.40	BK80QT	121091	D3	0.13	0.88	1.25	0.50	4.2
8.25	7.50	7.90	BK85QT	121092	D3	0.13	0.88	1.25	0.50	4.2
8.75	8.00	8.40	BK90QT	121093	D3	0.13	0.88	1.25	0.50	4.9
9.25	8.50	8.90	BK95QT	121094	D3	0.13	0.88	1.25	0.50	5.6
9.75	9.00	9.40	BK100QT	121095	D3	0.13	0.88	1.25	0.50	5.8
10.25	9.50	9.90	BK105QT	121096	D3	0.13	0.88	1.25	0.50	6.1
10.75	10.00	10.40	BK110QT	121097	D3	0.13	0.88	1.25	0.50	6.6
11.25	10.50	10.90	BK115QT	121098	D3	0.13	0.88	1.25	0.50	7.0
11.75	11.00	11.40	BK120QT	121099	D3	0.13	0.88	1.25	0.50	7.5
12.75	12.00	12.40	BK130QT	121100	D3	0.13	0.88	1.25	0.50	7.5
13.75	13.00	13.40	BK140QT	121101	D3	0.13	0.88	1.25	0.50	9.1
14.75	14.00	14.40	BK150QT	121102	D3	0.13	0.88	1.25	0.50	10.1
15.75	15.00	15.40	BK160QT	121103	D3	0.13	0.88	1.25	0.50	10.4
18.75	18.00	18.40	BK190QT	121009	D3	0.13	0.88	1.25	0.50	13.4

QT BUSHED SHEAVES FOR "B" BELTS - TWO GROOVES										
O.D.	Datum Dia.		Sheave	P/N	Type	Dimensions				WT LBS
	4L (A)	5L(B)				E	F	L	M	
3.35	2.60	3.00	2BK32QT	121105	E1	1.38	1.75	1.25	0.88	2.6
3.55	2.80	3.20	2BK34QT	121106	E1	1.38	1.75	1.25	0.88	3.0
3.75	3.00	3.40	2BK36QT	121107	E1	0.94	1.75	1.25	0.44	3.0
3.95	3.20	3.60	2BK40QT	121108	E1	0.94	1.75	1.25	0.44	3.0
4.25	3.50	3.90	2BK45QT	121109	E1	0.94	1.75	1.25	0.44	3.6
4.45	3.70	4.10	2BK47QT	121110	A2	0.06	1.75	1.25	0.44	3.6
4.75	4.00	4.40	2BK50QT	121111	A2	0.06	1.75	1.25	0.44	3.9
4.95	4.20	4.60	2BK52QT	121112	A2	0.06	1.75	1.25	0.44	4.2
5.25	4.50	4.90	2BK55QT	121113	A2	0.06	1.75	1.25	0.44	4.5
5.45	4.70	5.10	2BK57QT	121114	A2	0.06	1.75	1.25	0.44	4.9
5.75	5.00	5.40	2BK60QT	121115	A2	0.06	1.75	1.25	0.44	5.0
5.95	5.20	5.60	2BK62QT	121116	A2	0.06	1.75	1.25	0.44	5.1
6.25	5.50	5.90	2BK65QT	121117	D3	0.31	1.75	1.25	0.19	5.1
6.45	5.70	6.10	2BK67QT	121118	D3	0.31	1.75	1.25	0.19	5.6
6.75	6.00	6.40	2BK70QT	121119	D3	0.06	1.75	1.25	0.44	5.7
6.95	6.20	6.60	2BK72QT		D3	0.31	1.75	1.25	0.19	6.0
7.75	7.00	7.40	2BK80QT	121120	D3	0.31	1.75	1.25	0.19	7.0
8.75	8.00	8.40	2BK90QT	121121	D3	0.06	1.75	1.25	0.44	8.2
9.75	9.00	9.40	2BK100QT	121122	D3	0.31	1.75	1.25	0.19	9.0
10.75	10.00	10.40	2BK110QT	121123	D3	0.06	1.75	1.25	0.44	9.9
11.75	11.00	11.40	2BK120QT	121124	D3	0.06	1.75	1.25	0.44	11.6
12.75	12.00	12.40	2BK130QT	121125	D3	0.06	1.75	1.25	0.44	13.7
13.75	13.00	13.40	2BK140QT	121126	D3	0.06	1.75	1.25	0.44	15.4
15.75	15.00	15.40	2BK160QT	121127	D3	0.06	1.75	1.25	0.44	18.1
18.75	18.00	18.40	2BK190QT	121016	D3	0.06	1.75	1.25	0.44	22.1

P.D. for "3L" = Datum + .25
P.D. for "4L" is same as O.D.
Weights are approximate and include Bushing



Variable Pitch Sheaves



One Groove

Two Groove

SHV NO.	O.D.	Overall Length	WT LBS	ONE GROOVE										MAX BORE		
				Stock Bores												
				1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8				
1VP25	2.58	1.59	0.7	127400												0.75
1VP30	2.87	1.66	1.1	121203	121207	127401										0.75
1VP34	3.15	1.88	1.4	121208	121209	121210	121211									1.13
1VP40	3.75	1.88	1.9	121212	121213	121214	121215									1.13
1VP44	4.15	1.88	2.4	121216	121217	121218	121219	121220	121221							1.13
1VP50	4.75	1.88	3.6	121222	121223	121224	121225	121226	121227							1.13
1VP56	5.35	1.88	4.4	121228	121229	121230	121231	121232	121233							1.13
1VP60	6.00	1.66	6.5			127402	127403		127404							1.63
1VP62	5.95	1.91	6.7		127405	121234	121235	121236	121237	121239	121240					1.63
1VP65	6.50	1.66	6.8			127406	127407		127441							1.63
1VP68	6.55	1.91	7.3		127408	121241	121242	121243	121244	121246	121247					1.63
1VP71	7.10	1.66	8.5			127409	127410		127411							1.63
1VP75	7.50	1.66	9.2			121248	121249		121251							1.63

SHV NO.	O.D.	Overall Length	WT LBS	TWO GROOVE										MAX BORE		
				Stock Bores												
				1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8				
2VP36	3.35	3.00	3.4	127412	127413	127414	127415	127416	127417							1.13
2VP42	3.95	3.00	4.4		127417	127418	127419	127420	127421							1.13
2VP50	4.75	3.00	6.3		121266	121267	121268	121269	121270							1.13
2VP56	5.35	3.00	7.8		121271	121272	121273	121274	121275							1.63
2VP60	6.00	3.25	10.6			127431	127432		127434			127435	127444		1.63	
2VP62	5.95	3.00	11.0			121276	121277	121278	121279	127422		121295			1.63	
2VP65	6.50	3.25	12.3			127423	127424		127425			127426	127445		1.63	
2VP68	6.55	3.00	12.7				121281	121282	121283	121285		121286			1.63	
2VP71	7.10	3.25	14.6			127427	127428		127429			127430	127446		1.63	
2VP75	7.50	3.25	16.5			121287	121288		121290			121293	127447		1.63	

Bore	Keyseat
1/2	None
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32
1-7/16 - 1-5/8	3/8 x 3/16



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

FHP Fixed Speed Drives

PROCEDURE

- 1. Calculate the Drive Ratio:** DriveR RPM divided by DriveN RPM.
- 2. Calculate the Design Horsepower:** Multiply motor HP by the "combined Correction Factor" listed below. If the exact type of machine is not listed, use the one that most nearly matches the application.
- 3. Select DriveR Sheave:** In the HP Rating Tables, scan the RPM column for the HP rating that is equal to or greater than the Design HP calculated in Step 2. The DriveR sheave size is listed in the left-hand column. Normally the smallest diameter sheave alternative that covers the Design HP will result in the most economical drive.
- 4. Select the DriveN Sheave:** Refer to the appropriate "Ratio Table". Choose the DriveN Sheave at the intersection of the calculated ratio and the DriveR Sheave.
- 5. Select Belt Length:** Add DriveR and DriveN sheave diameters. Locate this number on the top row of the Center Distance Table. Trace down to the desired center distance in this column. The appropriate belt length will be listed in the left hand column. Belt length is indicated by the belt nomenclature: e.g., 4L350 is 35.0" long, 5L530 is 53.0" long, B36 is 36" long, etc.

NOTE: This procedure will provide approximate center distance. For more accurate results, refer to the "Non-Standard Drive Selection Procedure" for S-L Classic V-Drives.

6. Two Belt Drives: If the Design Horsepower is greater than the belt listed belt rating, divide the DHP by two, and proceed as though it were a single belt drive. CAUTION: FHP belts are not matched, and are therefore not normally recommended for two-belt drives. A, B, AX, or BX belts are matched and may be substituted. Also, these classical belts may have a significantly higher HP rating, which could allow for a more economical single belt drive.

COMBINED CORRECTION FACTOR

Driven Machine	Speed Ratio	
	Under 1.5	1.5 and Over
Fans & Blowers	1.0	0.9
Domestic Laundry Mach.	1.1	1.0
Centrifugal Pumps	1.1	1.0
Generators	1.2	1.1
Rotary Compressors	1.3	1.1
Machine Tools	1.3	1.2
Reciprocating Pumps	1.4	1.3
Recip. Compressors	1.4	1.3
Woodworking Machy.	1.4	1.3

HORSEPOWER RATINGS

3L Section V-Belts

Small Shv.	Belt Horsepower Rating for RPM of FASTER SHAFT **											
	1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
1.50	0.07	0.09	0.11	0.07	0.09	0.10	0.11	0.11	0.11	0.11	0.10	0.09
1.75	0.13	0.17	0.25	0.12	0.15	0.19	0.21	0.23	0.25	0.26	0.26	0.26
2.00	0.18	0.25	0.38	0.16	0.22	0.27	0.31	0.35	0.38	0.40	0.42	0.42
2.25	0.23	0.32	0.50	0.21	0.29	0.35	0.41	0.46	0.50	0.54	0.56	0.57
2.50	0.28	0.39	0.62	0.25	0.35	0.43	0.51	0.57	0.62	0.66	0.68	0.69
2.75	0.34	0.46	0.73	0.30	0.41	0.51	0.60	0.68	0.74	0.78	0.80	0.80
3.00	0.39	0.54	0.83	0.34	0.47	0.59	0.69	0.78	0.84	0.88	0.90	0.89

**Synchronous belt drives are suggested for lower RPM's.
(continued next page)

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Horsepower Ratings

4L, A, AX Section Belts

Small Shv. O.D.	Belt Section	Belt Horsepower Rating for RPM of Faster Shaft **											
		1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
2.00*	4L	0.12	0.12	0.02	0.11	0.12	0.11	0.09	0.06	0.02	-	-	-
	A	-	-	-	-	-	-	-	-	-	-	-	-
	AX	-	1.24	1.40	-	-	1.30	1.38	1.42	1.40	1.35	1.25	1.08
2.25*	4L	0.23	0.28	0.30	0.21	0.26	0.30	0.31	0.31	0.30	0.27	0.22	0.15
	A	-	1.17	1.60	-	-	1.26	1.40	1.52	1.60	1.64	1.65	1.62
	AX	-	1.58	1.98	-	1.23	1.68	1.83	1.94	1.98	1.98	1.92	1.82
2.50	4L	0.34	0.44	0.57	0.31	0.40	0.47	0.53	0.56	0.57	0.56	0.54	0.47
	A	-	1.55	2.26	-	1.40	1.60	1.91	2.11	2.31	2.42	2.50	2.48
	AX	-	2.05	2.73	-	1.87	2.19	2.52	2.69	2.74	2.83	2.85	2.83
2.75	4L	0.45	0.60	0.83	0.41	0.54	0.65	0.73	0.79	0.83	0.83	0.81	0.78
	A	-	1.92	2.61	-	1.74	2.21	2.39	2.68	2.89	3.03	3.12	3.18
	AX	-	2.50	3.53	-	2.31	2.72	3.13	3.40	3.57	3.70	3.84	3.91
3.00	4L	0.56	0.75	1.07	0.50	0.67	0.82	0.94	1.02	1.07	1.09	1.07	1.01
	A	1.68	2.23	3.34	-	1.97	2.42	2.78	3.09	3.41	3.52	3.64	3.67
	AX	2.22	2.90	4.14	-	2.63	3.14	3.58	3.89	4.01	4.40	4.59	4.71
3.25	4L	0.67	0.90	1.30	0.60	0.81	0.99	1.13	1.24	1.31	1.33	1.30	1.23
	A	1.97	2.61	3.79	-	2.37	2.85	3.24	3.57	3.78	3.95	4.08	4.11
	AX	2.45	3.25	4.81	-	2.88	3.57	3.94	4.41	4.78	5.12	5.31	5.47
3.5	4L	0.77	1.05	1.52	0.69	0.94	1.15	1.32	1.45	1.53	1.55	1.51	1.41
	A	2.32	3.13	4.66	2.07	2.81	3.42	3.93	4.35	4.65	4.84	4.90	4.83
	AX	2.79	3.68	5.68	2.51	3.31	4.01	4.61	5.19	5.64	6.08	6.37	6.54
3.75	4L	0.86	1.20	1.73	0.78	1.07	1.31	1.51	1.65	1.73	1.75	1.69	1.55
	A	2.63	3.58	5.35	-	3.17	3.90	4.51	4.98	5.31	5.56	5.67	5.63
	AX	3.05	4.06	6.43	-	3.66	4.44	5.20	5.87	6.41	6.87	7.09	7.40
4.00	4L	0.98	1.34	1.92	0.87	1.20	1.47	1.69	1.84	1.92	1.92	1.84	1.65
	A	2.94	4.01	6.02	2.62	3.58	4.40	4.10	5.64	6.04	6.29	6.37	6.28
	AX	3.34	4.46	7.14	3.00	3.95	4.93	5.78	6.52	7.13	7.64	7.98	8.19

5L, B, BX Section Belts

Small Shv. O.D.	Belt Section	Belt Horsepower Rating for RPM of Faster Shaft **											
		1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
3.00*	5L	0.28	0.27	-	0.27	0.28	0.24	0.16	0.04	-	-	-	-
	B	1.35	1.58	1.28	-	1.51	1.62	1.61	1.50	1.27	0.95	0.45	-
	BX	2.90	3.72	5.16	-	3.38	4.02	4.51	4.90	5.15	5.31	5.33	5.25
3.25*	5L	0.46	0.52	0.28	0.43	0.50	1.52	0.49	0.41	0.26	0.04	-	-
	B	1.72	2.03	2.00	-	1.89	2.18	2.22	2.17	1.98	1.75	1.25	0.75
	BX	3.29	4.20	5.92	-	3.81	4.50	5.15	5.59	5.85	6.12	6.18	6.15
3.50	5L	0.63	0.77	0.65	0.58	0.72	0.80	0.82	0.76	0.63	0.42	0.12	-
	B	2.20	2.67	3.05	1.80	2.45	2.80	3.05	3.12	3.14	3.84	2.36	1.82
	BX	3.76	4.77	6.87	2.87	4.37	5.20	5.91	6.51	6.92	7.15	7.26	7.16
3.75	5L	0.81	1.01	1.00	0.74	0.94	1.07	1.13	1.10	0.99	0.77	0.44	-
	B	2.61	3.31	4.01	2.33	2.98	3.52	3.87	4.02	4.03	3.81	3.38	2.75
	BX	4.22	5.45	7.85	3.70	4.83	5.87	6.60	7.40	7.92	8.12	8.35	8.20
4.00	5L	0.98	1.25	1.33	0.89	1.15	1.33	1.43	1.43	1.31	1.08	0.71	0.19
	B	3.00	3.77	4.70	2.66	3.40	4.04	4.45	4.68	4.70	4.43	4.03	3.39
	BX	4.58	5.93	8.57	4.02	5.32	6.46	7.35	8.07	8.53	8.88	8.97	8.92
4.25	5L	1.15	1.49	1.63	1.04	1.36	1.59	1.72	1.73	1.62	1.35	0.93	0.33
	B	3.35	4.19	5.32	2.95	3.81	4.53	5.05	5.31	5.35	5.18	5.65	3.95
	BX	4.98	6.39	9.23	4.42	5.74	7.06	7.91	8.71	9.19	9.61	9.60	9.58
4.50	5L	1.32	1.72	1.91	1.19	1.57	1.84	2.00	2.02	1.89	1.59	1.10	0.39
	B	3.81	4.87	5.31	3.81	4.41	5.26	5.73	6.12	6.23	5.98	5.41	4.52
	BX	5.37	6.99	10.12	4.71	6.28	7.61	8.66	9.52	10.12	10.52	10.62	10.45
4.75	5L	1.49	1.95	2.16	1.34	1.77	2.09	2.27	2.29	2.14	1.79	1.21	0.38
	B	4.38	5.61	7.00	3.82	5.14	6.01	6.70	7.01	7.00	6.71	6.04	5.04
	BX	5.80	7.54	12.02	5.06	6.82	8.20	9.51	10.50	11.41	11.75	11.90	11.46
5.00	5L	1.66	2.17	2.39	1.49	1.98	2.33	2.53	2.55	2.36	1.94	1.26	0.28
	B	4.75	6.16	7.69	4.21	5.57	6.65	7.35	7.74	7.69	7.25	6.54	-
	BX	6.15	8.08	12.28	5.38	7.29	8.90	10.59	11.47	12.30	12.73	12.76	-

NOTES: * These sizes are below min. recommended diameter **Synchronous belt drives are suggested for lower RPM's.

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SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Ratio Table

AK, 2AK, AKQT, 2AKQT SHEAVE SERIES																		
Driven Shv.	Driver Sheave																	
	AK20	AK21	AK22	AK23	AK25	AK26	AK27	AK28	AK30	AK32	AK34	AK39	AK41	AK44	AK46	AK49	AK51	AK54
AK20	1.00	0.95	0.90	0.86	0.78	0.75	0.72	0.69	0.64	0.60	0.56	0.51	0.49	0.45	0.43	0.40	0.38	0.36
AK21	1.06	1.00	0.95	0.90	0.83	0.79	0.76	0.73	0.68	0.63	0.59	0.54	0.51	0.48	0.45	0.42	0.40	0.38
AK22	1.11	1.05	1.00	0.95	0.87	0.83	0.80	0.77	0.71	0.67	0.63	0.57	0.54	0.50	0.48	0.44	0.43	0.40
AK23	1.17	1.11	1.05	1.00	0.91	0.88	0.84	0.81	0.75	0.70	0.66	0.60	0.57	0.53	0.50	0.47	0.45	0.42
AK25	1.28	1.21	1.15	1.10	1.00	0.96	0.92	0.88	0.82	0.77	0.72	0.66	0.62	0.58	0.55	0.51	0.49	0.46
AK26	1.33	1.26	1.20	1.14	1.04	1.00	0.96	0.92	0.86	0.80	0.75	0.69	0.65	0.60	0.57	0.53	0.51	0.48
AK27	1.39	1.32	1.25	1.19	1.09	1.04	1.00	0.96	0.89	0.83	0.78	0.71	0.68	0.63	0.60	0.56	0.53	0.50
AK28	1.44	1.37	1.30	1.24	1.13	1.08	1.04	1.00	0.93	0.87	0.81	0.74	0.70	0.65	0.62	0.58	0.55	0.52
AK30	1.56	1.47	1.40	1.33	1.22	1.17	1.12	1.08	1.00	0.93	0.88	0.80	0.76	0.70	0.67	0.62	0.60	0.56
AK32	1.67	1.58	1.50	1.43	1.30	1.25	1.20	1.15	1.07	1.00	0.94	0.86	0.81	0.75	0.71	0.67	0.64	0.60
AK34	1.78	1.68	1.60	1.52	1.39	1.33	1.28	1.23	1.14	1.07	1.00	0.91	0.86	0.80	0.76	0.71	0.68	0.64
AK39	1.94	1.84	1.75	1.67	1.52	1.46	1.40	1.35	1.25	1.17	1.09	1.00	0.95	0.88	0.83	0.78	0.74	0.70
AK41	2.06	1.95	1.85	1.76	1.61	1.54	1.48	1.42	1.32	1.23	1.16	1.06	1.00	0.93	0.88	0.82	0.79	0.74
AK44	2.22	2.11	2.00	1.90	1.74	1.67	1.60	1.54	1.43	1.33	1.25	1.14	1.08	1.00	0.95	0.89	0.85	0.80
AK46	2.33	2.21	2.10	2.00	1.83	1.75	1.68	1.62	1.50	1.40	1.31	1.20	1.14	1.05	1.00	0.93	0.89	0.84
AK49	2.50	2.37	2.25	2.14	1.96	1.88	1.80	1.73	1.61	1.50	1.41	1.29	1.22	1.13	1.07	1.00	0.96	0.90
AK51	2.61	2.47	2.35	2.24	2.04	1.96	1.88	1.81	1.68	1.57	1.47	1.34	1.27	1.18	1.12	1.04	1.00	0.94
AK54	2.72	2.58	2.45	2.33	2.13	2.04	1.96	1.88	1.75	1.63	1.53	1.40	1.32	1.23	1.17	1.09	1.04	0.98
AK56	2.89	2.74	2.60	2.48	2.26	2.17	2.08	2.00	1.86	1.73	1.63	1.49	1.41	1.30	1.24	1.16	1.11	1.04
AK59	3.06	2.89	2.75	2.62	2.39	2.29	2.20	2.12	1.96	1.83	1.72	1.57	1.49	1.38	1.31	1.22	1.17	1.10
AK61	3.17	3.00	2.85	2.71	2.48	2.37	2.28	2.19	2.04	1.90	1.78	1.63	1.54	1.43	1.36	1.27	1.21	1.14
AK64	3.33	3.16	3.00	2.86	2.61	2.50	2.40	2.31	2.14	2.00	1.88	1.71	1.62	1.50	1.43	1.33	1.28	1.20
AK66	3.44	3.26	3.10	2.95	2.70	2.58	2.48	2.38	2.21	2.07	1.94	1.77	1.68	1.55	1.48	1.38	1.32	1.24
AK69	3.61	3.42	3.25	3.10	2.83	2.71	2.60	2.50	2.32	2.17	2.03	1.86	1.76	1.63	1.55	1.44	1.38	1.30
AK71	3.72	3.53	3.35	3.19	2.91	2.79	2.68	2.58	2.39	2.23	2.09	1.91	1.81	1.68	1.60	1.49	1.43	1.34
AK74	3.89	3.68	3.50	3.33	3.04	2.92	2.80	2.69	2.50	2.33	2.19	2.00	1.89	1.75	1.67	1.56	1.49	1.40
AK79	4.17	3.95	3.75	3.57	3.26	3.13	3.00	2.88	2.68	2.50	2.34	2.14	2.03	1.88	1.79	1.67	1.60	1.50
AK84	4.44	4.21	4.00	3.81	3.48	3.33	3.20	3.08	2.86	2.67	2.50	2.29	2.16	2.00	1.90	1.78	1.70	1.60
AK89	4.72	4.47	4.25	4.05	3.70	3.54	3.40	3.27	3.04	2.83	2.66	2.43	2.30	2.13	2.02	1.89	1.81	1.70
AK94	5.00	4.74	4.50	4.29	3.91	3.75	3.60	3.46	3.21	3.00	2.81	2.57	2.43	2.25	2.14	2.00	1.91	1.80
AK99	5.28	5.00	4.75	4.52	4.13	3.96	3.80	3.65	3.39	3.17	2.97	2.71	2.57	2.38	2.26	2.11	2.02	1.90
AK104	5.56	5.26	5.00	4.76	4.35	4.17	4.00	3.85	3.57	3.33	3.13	2.86	2.70	2.50	2.38	2.22	2.13	2.00
AK109	5.89	5.58	5.30	5.05	4.61	4.42	4.24	4.08	3.79	3.53	3.31	3.03	2.86	2.65	2.52	2.36	2.26	2.12
AK114	6.11	5.79	5.50	5.24	4.78	4.58	4.40	4.23	3.93	3.67	3.44	3.14	2.97	2.75	2.62	2.44	2.34	2.20
AK124	6.67	6.32	6.00	5.71	5.22	5.00	4.80	4.62	4.29	4.00	3.75	3.43	3.24	3.00	2.86	2.67	2.55	2.40
AK134	7.22	6.84	6.50	6.19	5.65	5.42	5.20	5.00	4.64	4.33	4.06	3.71	3.51	3.25	3.10	2.89	2.77	2.60
AK144	7.78	7.37	7.00	6.67	6.09	5.83	5.60	5.38	5.00	4.67	4.38	4.00	3.78	3.50	3.33	3.11	2.98	2.80
AK154	8.33	7.89	7.50	7.14	6.52	6.25	6.00	5.77	5.36	5.00	4.69	4.29	4.05	3.75	3.57	3.33	3.19	3.00
AK184	10.0	9.47	9.00	8.57	7.83	7.50	7.20	6.92	6.43	6.00	5.63	5.14	4.86	4.50	4.29	4.00	3.83	3.60



Ratio Table

BK, 2BK, BKQT, 2BKQT SERIES																					
Driven Shv.	Driver Sheave																				
	BK23	BK24	BK25	BK26	BK27	BK28	BK30	BK31	BK32	BK34	BK36	BK45	BK47	BK50	BK52	BK55	BK57	BK60	BK62	BK65	
BK23	1.00	0.95	0.91	0.88	0.84	0.81	0.75	0.72	0.70	0.66	0.62	0.58	0.54	0.51	0.48	0.46	0.43	0.41	0.39	0.38	0.36
BK24	1.05	1.00	0.96	0.92	0.88	0.85	0.79	0.76	0.73	0.69	0.65	0.61	0.56	0.54	0.50	0.48	0.45	0.43	0.41	0.39	0.37
BK25	1.10	1.05	1.00	0.96	0.92	0.88	0.82	0.79	0.77	0.72	0.68	0.64	0.59	0.56	0.52	0.50	0.47	0.45	0.43	0.41	0.39
BK26	1.14	1.09	1.04	1.00	0.96	0.92	0.86	0.83	0.80	0.75	0.71	0.67	0.62	0.59	0.55	0.52	0.49	0.47	0.44	0.43	0.41
BK27	1.19	1.14	1.09	1.04	1.00	0.96	0.89	0.86	0.83	0.78	0.74	0.69	0.64	0.61	0.57	0.54	0.51	0.49	0.46	0.45	0.42
BK28	1.24	1.18	1.13	1.08	1.04	1.00	0.93	0.90	0.87	0.81	0.76	0.72	0.67	0.63	0.59	0.57	0.53	0.51	0.48	0.46	0.44
BK30	1.33	1.27	1.22	1.17	1.12	1.08	1.00	0.97	0.93	0.88	0.82	0.78	0.72	0.68	0.64	0.61	0.57	0.55	0.52	0.50	0.47
BK31	1.38	1.32	1.26	1.21	1.16	1.12	1.04	1.00	0.97	0.91	0.85	0.81	0.74	0.71	0.66	0.63	0.59	0.57	0.54	0.52	0.49
BK32	1.43	1.36	1.30	1.25	1.20	1.15	1.07	1.03	1.00	0.94	0.88	0.83	0.77	0.73	0.68	0.65	0.61	0.59	0.56	0.54	0.51
BK34	1.52	1.45	1.39	1.33	1.28	1.23	1.14	1.10	1.07	1.00	0.94	0.89	0.82	0.78	0.73	0.70	0.65	0.63	0.59	0.57	0.54
BK36	1.62	1.55	1.48	1.42	1.36	1.31	1.21	1.17	1.13	1.06	1.00	0.94	0.87	0.83	0.77	0.74	0.69	0.67	0.63	0.61	0.58
BK40	1.71	1.64	1.57	1.50	1.44	1.38	1.29	1.24	1.20	1.13	1.06	1.00	0.92	0.88	0.82	0.78	0.73	0.71	0.67	0.64	0.61
BK45	1.86	1.77	1.70	1.63	1.56	1.50	1.39	1.34	1.30	1.22	1.15	1.08	1.00	0.95	0.89	0.85	0.80	0.76	0.72	0.70	0.66
BK47	1.95	1.86	1.78	1.71	1.64	1.58	1.46	1.41	1.37	1.28	1.21	1.14	1.05	1.00	0.93	0.89	0.84	0.80	0.76	0.73	0.69
BK50	2.10	2.00	1.91	1.83	1.76	1.69	1.57	1.52	1.47	1.38	1.29	1.22	1.13	1.07	1.00	0.96	0.90	0.86	0.81	0.79	0.75
BK52	2.19	2.09	2.00	1.92	1.84	1.77	1.64	1.59	1.53	1.44	1.35	1.28	1.18	1.12	1.05	1.00	0.94	0.90	0.85	0.82	0.78
BK55	2.33	2.23	2.13	2.04	1.96	1.88	1.75	1.69	1.63	1.53	1.44	1.36	1.26	1.20	1.11	1.07	1.00	0.96	0.91	0.88	0.83
BK57	2.43	2.32	2.22	2.12	2.04	1.96	1.82	1.76	1.70	1.59	1.50	1.42	1.31	1.24	1.16	1.11	1.04	1.00	0.94	0.91	0.86
BK60	2.57	2.45	2.35	2.25	2.16	2.08	1.93	1.86	1.80	1.69	1.59	1.50	1.38	1.32	1.23	1.17	1.10	1.06	1.00	0.96	0.92
BK62	2.67	2.55	2.43	2.33	2.24	2.15	2.00	1.93	1.87	1.75	1.65	1.56	1.44	1.37	1.27	1.22	1.14	1.10	1.04	1.00	0.95
BK65	2.81	2.68	2.57	2.46	2.36	2.27	2.11	2.03	1.97	1.84	1.74	1.64	1.51	1.44	1.34	1.28	1.20	1.16	1.09	1.05	1.00
BK67	2.90	2.77	2.65	2.54	2.44	2.35	2.18	2.10	2.03	1.91	1.79	1.69	1.56	1.49	1.39	1.33	1.24	1.20	1.13	1.09	1.03
BK70	3.05	2.91	2.78	2.67	2.56	2.46	2.29	2.21	2.13	2.00	1.88	1.78	1.64	1.56	1.45	1.39	1.31	1.25	1.19	1.14	1.08
BK72	3.14	3.00	2.87	2.75	2.64	2.54	2.36	2.28	2.20	2.06	1.94	1.83	1.69	1.61	1.50	1.43	1.35	1.29	1.22	1.18	1.12
BK75	3.29	3.14	3.00	2.88	2.76	2.65	2.46	2.38	2.30	2.16	2.03	1.92	1.77	1.68	1.57	1.50	1.41	1.35	1.28	1.23	1.17
BK77	3.38	3.23	3.09	2.96	2.84	2.73	2.54	2.45	2.37	2.22	2.09	1.97	1.82	1.73	1.61	1.54	1.45	1.39	1.31	1.27	1.20
BK80	3.52	3.36	3.22	3.08	2.96	2.85	2.64	2.55	2.47	2.31	2.18	2.06	1.90	1.80	1.68	1.61	1.51	1.45	1.37	1.32	1.25
BK85	3.76	3.59	3.43	3.29	3.16	3.04	2.82	2.72	2.63	2.47	2.32	2.19	2.03	1.93	1.80	1.72	1.61	1.55	1.46	1.41	1.34
BK90	4.00	3.82	3.65	3.50	3.36	3.23	3.00	2.90	2.80	2.63	2.47	2.33	2.15	2.05	1.91	1.83	1.71	1.65	1.56	1.50	1.42
BK95	4.24	4.05	3.87	3.71	3.56	3.42	3.18	3.07	2.97	2.78	2.62	2.47	2.28	2.17	2.02	1.93	1.82	1.75	1.65	1.59	1.51
BK100	4.48	4.27	4.09	3.92	3.76	3.62	3.36	3.24	3.13	2.94	2.76	2.61	2.41	2.29	2.14	2.04	1.92	1.84	1.74	1.68	1.59
BK105	4.71	4.50	4.30	4.12	3.96	3.81	3.54	3.41	3.30	3.09	2.91	2.75	2.54	2.41	2.25	2.15	2.02	1.94	1.83	1.77	1.68
BK110	4.95	4.73	4.52	4.33	4.16	4.00	3.71	3.59	3.47	3.25	3.06	2.89	2.67	2.54	2.36	2.26	2.12	2.04	1.93	1.86	1.76
BK115	5.19	4.95	4.74	4.54	4.36	4.19	3.89	3.76	3.63	3.41	3.21	3.03	2.79	2.66	2.48	2.37	2.22	2.14	2.02	1.95	1.85
BK120	5.43	5.18	4.96	4.75	4.56	4.38	4.07	3.93	3.80	3.56	3.35	3.17	2.92	2.78	2.59	2.48	2.33	2.24	2.11	2.04	1.93
BK130	5.90	5.64	5.39	5.17	4.96	4.77	4.43	4.28	4.13	3.88	3.65	3.44	3.18	3.02	2.82	2.70	2.53	2.43	2.30	2.21	2.10
BK140	6.38	6.09	5.83	5.58	5.36	5.15	4.79	4.62	4.47	4.19	3.94	3.72	3.44	3.27	3.05	2.91	2.73	2.63	2.48	2.39	2.27
BK160	7.33	7.00	6.70	6.42	6.16	5.92	5.50	5.31	5.13	4.81	4.53	4.28	3.95	3.76	3.50	3.35	3.14	3.02	2.85	2.75	2.61
BK190	8.76	8.36	8.00	7.67	7.36	7.08	6.57	6.34	6.13	5.75	5.41	5.11	4.72	4.49	4.18	4.00	3.76	3.61	3.41	3.29	3.12

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



SELECTION



TORQUE-TAMER

Center Distance/Belt Length

This table provides approximate center distance for the majority of V-Drives up to 3:1 ratio. Data is useful for higher ratios, but if more accurate results are required, use the belt length formula found in the "Special Drives" selection section for S-L Classic drives.

APPROXIMATE CENTER DISTANCES (in inches)

Belt Lgth.	Sum of Both V-Belt Sheave Diameters																				
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			
16	4.9	4.1																			
18	5.9	5.1																			
20	6.9	6.1																			
22	7.9	7.1	5.2																		
24	8.9	8.1	6.2																		
			7.2	6.3																	
26	9.9	9.1	8.2	7.3	6.5																
28	10.9	10.1	9.2	8.4	7.6	6.6															
30	11.9	11.1	10.2	9.4	8.6	7.7															
32	12.9	12.1	11.2	10.4	9.6	8.7	8.0														
34	13.9	13.1	12.2	11.4	10.6	9.7	9.0														
36	14.9	14.1	13.2	12.4	11.6	10.7	10.0	9.0													
38	15.9	15.1	14.2	13.4	12.6	11.8	11.0	10.0	9.1												
40	16.9	16.1	15.3	14.4	13.6	12.8	12.0	11.1	10.1												
42	17.9	17.1	16.3	15.4	14.6	13.8	13.1	12.1	11.2	10.2											
44	18.9	18.1	17.3	16.4	15.6	14.8	14.1	13.1	12.2	11.2											
46	19.9	19.1	18.3	17.4	16.6	15.8	15.1	14.1	13.2	12.3	10.9										
48	20.9	20.1	19.3	18.4	17.7	16.8	16.1	15.1	14.3	13.3	12.0	11.3									
50	21.9	21.1	20.3	19.4	18.7	17.8	17.1	16.2	15.3	14.4	13.1	12.4	11.7								
52	22.9	22.1	21.3	20.4	19.7	18.8	18.1	17.2	16.3	15.4	14.1	13.5	12.8								
54	23.9	23.1	22.3	21.4	20.7	19.8	19.1	18.2	17.3	16.4	15.2	14.5	13.8	13.2							
56	24.9	24.1	23.3	22.4	21.7	20.8	20.1	19.2	18.3	17.4	16.2	15.6	14.9	14.2							
58	25.9	25.1	24.3	23.4	22.7	21.8	21.1	20.2	19.3	18.5	17.3	16.6	15.9	15.2	13.5						
60	26.9	26.1	25.3	24.5	23.7	22.8	22.1	21.2	20.4	19.5	18.3	17.6	17.0	16.3	14.6	14.0					
62	27.9	27.1	26.3	25.5	24.7	23.8	23.1	22.2	21.4	20.5	19.4	18.7	18.0	17.3	15.7	15.1					
64	28.9	28.1	27.3	26.5	25.7	24.8	24.1	23.2	22.4	21.5	20.4	19.7	19.0	18.3	16.8	16.1	15.5				
66	29.9	29.1	28.3	27.5	26.7	25.9	25.1	24.2	23.4	22.5	21.4	20.7	20.0	19.3	17.8	17.2	16.5	14.9			
68	30.9	30.1	29.3	28.5	27.7	26.9	26.1	25.2	24.4	23.5	22.4	21.7	21.0	20.3	18.9	18.2	17.6	16.0			
70	31.9	31.1	30.3	29.5	28.7	27.9	27.1	26.2	25.4	24.5	23.5	22.8	22.1	21.4	20.0	19.3	18.6	17.1			
72	32.9	32.1	31.3	30.5	29.7	28.9	28.1	27.2	26.4	25.5	24.5	23.8	23.1	22.4	21.0	20.3	19.6	18.2			
74	33.9	33.1	32.3	31.5	30.7	29.9	29.1	28.2	27.4	26.5	25.5	24.8	24.1	23.4	22.0	21.3	20.6	19.2			
76	34.9	34.1	33.3	32.5	31.7	30.9	30.1	29.2	28.4	27.6	26.5	25.8	25.1	24.4	23.1	22.4	21.7	20.3			
78	35.9	35.1	34.2	33.5	32.7	31.9	31.1	30.2	29.4	28.6	27.5	26.8	26.1	25.4	24.1	23.4	22.7	21.3			
80	36.9	36.1	35.3	34.5	33.7	32.9	32.1	31.3	30.4	29.6	28.6	27.9	27.1	26.4	25.1	24.5	23.8	22.4			
82	37.6	36.7	35.9	35.1	34.3	33.5	32.7	31.9	31.0	30.2	29.2	28.5	27.8	27.0	25.8	25.1	24.4	23.1			
84	38.9	38.1	37.3	36.5	35.7	34.9	34.1	33.3	32.4	31.6	30.6	29.9	29.2	28.4	27.2	26.5	25.8	24.5			
86	39.6	38.7	37.9	37.1	36.3	35.5	34.7	33.9	33.0	32.2	31.2	30.5	29.8	29.0	27.8	27.1	26.4	25.2			
88	40.9	40.1	39.3	38.5	37.7	36.9	36.1	35.3	34.4	33.6	32.6	31.9	31.2	30.4	29.2	28.5	27.8	26.6			
90	41.9	41.1	40.3	39.5	38.7	37.9	37.1	36.3	35.5	34.6	33.6	32.9	32.2	31.4	30.2	29.5	28.8	27.6			
92	42.9	42.1	41.3	40.5	39.7	38.9	38.1	37.3	36.5	35.6	34.6	33.9	33.2	32.5	31.3	30.6	29.9	28.7			
94	43.9	43.1	42.3	41.5	40.7	39.9	39.1	38.3	37.5	36.6	35.6	34.9	34.2	33.5	32.3	31.6	30.9	29.7			
96	44.9	44.1	43.3	42.5	41.7	40.9	40.1	39.3	38.5	37.6	36.7	35.9	35.2	34.5	33.3	32.6	31.9	30.7			
98	45.9	45.1	44.3	43.5	42.7	41.9	41.1	40.3	39.5	38.6	37.7	36.9	36.2	35.5	34.3	33.6	32.9	31.7			
100	46.9	46.1	45.3	44.5	43.7	42.9	42.1	41.3	40.5	39.6	38.7	37.9	37.2	36.5	35.3	34.6	33.9	32.8			

The centers shown in this shaded area are below the recommended minimum.

Bushings

V-Drives

FHP

Drives Component Accessories



Variable Pitch Selection Procedure

1750 RPM MOTORS, FRACTIONAL THRU 30 HP

PROCEDURE

1. Calculate design HP: Motor HP x Service Factor
2. Determine motor shaft size from NEMA B MOTOR chart.
3. Scan Tables 1 & 2 for VP sheave and belt profile combination that will accommodate motor shaft size and design HP.
4. Go to associated VP SHEAVE-BELT table. Trace down the column headed by the selected VP Sheave size until the desired driven speed range is reached. The Driven Sheave size will be listed in the "Driven Sheave" column.
5. Calculate belt length as follows:
If CD/D is greater than 1.5:

FORMULA A: $L=2CD + 1.57(D+d)$

CD = Center Distance
D = Large Sheave diameter
d = small sheave diameter

If CD/D is less than 1.5:

FORMULA B:

$$L = 2 CD + 1.57 (D + d) + \frac{(D - d)^2}{4 CD}$$

NOTE: "L" Belt length is Outside Length for FHP belts, Pitch Length for Classical Belts (A, B, AX, BX)

EXAMPLE

A fan is to be driven at a speed in the range of 1400 to 1200 RPM by a 10 HP, 1750 RPM motor. Center Distance is 26". Desired Service Factor is 1.3.

SOLUTION

1. Calculate Design HP: $10 \times 1.3 = 13$ DHP.
2. Check NEMA B Motor shaft size: 1-3/8", from Table 3.
3. Scan Tables 1 & 2 for VP sheave size that covers 13 DHP and has 1-3/8" shaft capacity. Choose 2VP65 with AX belt (Other larger sizes are also suitable).
4. Check Selection Table for 2-Groove A-Section Belts. Locate column headed by "2VP65". Trace down to the "1425/1175" RPM range, which covers the 1400/1200 requirement. Trace over to the left hand column for the Driven Sheave size: Find Driven Sheave "2AK74".
5. Calculate belt length: Note that CD/D is $26/7.0 = 3.5$. This is greater than 1.5, so "Formula A" can be used. $L=2 \times 26 + 1.57(7.0+5.7)$, $L = 72.0$, Use Belt Size AX71 which has a pitch length of 72.3".

NOTE: Calculated center distance is for maximum driven RPM. Center distance at minimum RPM will be approx. 1" longer.

VARIABLE PITCH SHEAVE SELECTION TABLES

ONE GROOVE VP SHEAVES

Table 1.

SIZE	MAX/MIN PITCH DIA.			MAX. BORE	O.D.	BASIC HP RATING AT 1750 RPM *					
	4L/A	5L/B	5V			4L	A	AX	5L	B	BX
1VP25	--	--	--	1/2	2.32	...	...	...	...	...	...
1VP30	--	--	--	3/4	2.87	...	...	...	...	...	...
1VP34	2.9/1.9	3.2/2.4	--	7/8	3.15	0.75	1.50	2.00	0.63	0.34	3.45
1VP40	3.4/2.4	3.7/2.7	--	7/8	3.75	1.00	2.41	2.84	1.12	1.70	3.87
1VP44	3.8/2.9	4.1/3.1	--	1-1/8	4.15	1.30	3.13	3.57	1.48	2.87	4.66
1VP50	4.4/3.4	4.7/3.7	--	1-1/8	4.75	1.50	4.20	4.63	1.95	4.50	6.50
1VP56	5.0/4.0	5.3/4.3	--	1-1/8	5.35	...	5.20	5.67	2.20	5.15	8.10
1VP60	5.2/4.2	5.5/4.3	--	1-1/8	6.00	...	5.53	6.01	2.60	6.68	8.67
1VP62	5.6/4.6	5.9/4.9	6.3/5.3	1-1/4	5.95	...	6.18	6.68	3.00	7.70	9.80
1VP65	5.7/4.7	6.0/4.8	6.4/5.2	1-1/8	6.50	...	6.40	6.85	...	7.97	10.00
1VP68	6.2/5.2	6.5/5.5	6.9/5.9	1-3/8	6.55	...	7.10	7.60	...	9.30	11.30
1VP71	6.3/5.3	6.6/5.4	7.0/5.8	1-1/8	7.10	...	7.30	7.70	...	9.40	11.60
1VP75	6.7/5.7	7.0/5.8	7.4/6.2	1-1/8	7.50	...	8.00	8.50	...	10.40	12.60

(Cont. next page)

* For 3L Belts Only: 1VP25 2.2/1.4 P.D.
1VP30 2.7/1.8 P.D.

AC MOTORS
NEMA B
Table 3.

1750RPM HP	Shaft Dia.
1/4, 1/3	...
1/2, 3/4	5/8
1, 1.5, 2	7/8
3, 5	1-1/8
7-1/2, 10	1-3/8
15, 20	1-5/8
25, 30	1-7/8



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Variable Pitch Sheave Selection Tables

TWO GROOVE VP SHEAVES

Table 2.

SIZE	MAX/MIN PITCH DIA.			MAX. BORE	O.D.	TWO-BELT BASIC HP RATING AT 1750 RPM *						
	4L/A	5L/B	5V			4L	A	AX	5L	B	BX	5VX
2VP36	3.0/2.0	3.3/2.5	--	1	3.35	1.6	3.34	4.20	1.40	...	4.40	...
2VP42	3.6/2.6	3.9/2.9	--	1-1/8	3.95	2.4	5.54	6.42	2.60	2.98	6.34	...
2VP50	4.4/3.4	4.7/3.7	--	1-1/8	4.75	2.8	6.20	9.26	4.00	7.48	11.06	...
2VP56	5.0/4.0	5.3/4.3	--	1-1/8	5.35	...	10.40	11.34	4.40	9.40	11.76	...
2VP60	5.2/4.2	5.5/4.3	--	1-3/8	6.00	...	11.06	12.02	4.80	11.80	15.60	...
2VP62	5.6/4.6	5.9/4.9	6.3/5.3	1-3/8	5.95	...	12.36	13.36	6.00	13.90	17.82	34.00
2VP65	5.7/4.7	6.0/4.8	6.4/5.2	1-3/8	6.50	...	12.60	13.66	...	14.20	18.20	34.60
2VP68	6.2/5.2	6.5/5.5	6.9/5.9	1-3/8	6.55	...	14.20	15.20	...	17.00	21.00	38.00
2VP71	6.3/5.3	6.5/5.4	7.0/5.8	1-3/8	7.10	...	14.60	15.60	...	17.60	21.60	40.00
2VP75	6.7/5.7	7.0/5.8	7.4/6.2	1-3/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2VP60A	5.2/4.2	5.5/4.3	--	1-5/8	6.00	...	11.06	12.02	4.80	11.80	15.60	...
2VP65A	5.7/4.7	6.0/4.8	6.4/5.2	1-5/8	6.50	...	12.60	13.66	...	14.20	18.20	34.60
2VP71A	6.3/5.3	6.5/5.4	7.0/5.8	1-5/8	7.10	...	14.60	15.60	...	17.60	21.60	40.00
2VP75A	6.7/5.7	7.0/5.8	7.4/6.2	1-5/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2V56B70	6.7/5.7	7.0/5.8	7.4/6.2	1-7/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2V68B80	7.7/6.7	7.7/6.8	8.4/7.2	1-7/8	8.50	...	18.00	18.80	...	23.40	28.20	52.00

* Rating is at Max. Pitch Dia. Apply Arc and Length correction factors for greater accuracy.

1VP SHEAVE USING A OR AX BELT

DRIVEN SHV.		DRIVEN RPM FOR 1750 RPM MOTOR															
SIZE	P.D.	1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
AK20	1.80	2819	1847	3306	2333	3694	2722	4278	3306	4861	3889	--	--	--	--	--	--
AK21	1.90	2671	1750	3132	2211	3500	2579	4053	3132	4605	3684	4789	3868	--	--	--	--
AK22	2.00	2538	1663	2975	2100	3325	2450	3850	2975	4375	3500	4550	3675	4900	4025	4988	4113
AK23	2.10	2417	1583	2833	2000	3167	2333	3667	2833	4167	3333	4333	3500	4667	3833	4750	3917
AK25	2.30	2207	1446	2587	1826	2891	2130	3348	2587	3804	3043	3957	3196	4261	3500	4337	3576
AK26	2.40	2115	1385	2479	1750	2771	2042	3208	2479	3646	2917	3792	3062	4083	3354	4156	3427
AK27	2.50	2030	1330	2380	1680	2660	1960	3080	2380	3500	2800	3640	2940	3920	3220	3990	3290
AK28	2.60	1952	1279	2288	1615	2558	1885	2962	2288	3365	2692	3500	2827	3769	3096	3837	3163
AK30	2.80	1813	1188	2125	1500	2375	1750	2750	2125	3125	2500	3250	2625	3500	2875	3563	2938
AK32	3.00	1692	1108	1983	1400	2217	1633	2567	1983	2917	2333	3033	2450	3267	2683	3325	2742
AK34	3.20	1586	1039	1859	1313	2078	1531	2406	1859	2734	2188	2844	2297	3063	2516	3117	2570
AK39	3.50	1450	950	1700	1200	1900	1400	2200	1700	2500	2000	2600	2100	2800	2300	2850	2350
AK41	3.70	1372	899	1608	1135	1797	1324	2081	1608	2365	1892	2459	1986	2649	2176	2696	2223
AK44	4.00	1269	831	1488	1050	1663	1225	1925	1488	2188	1750	2275	1838	2450	2013	2494	2056
AK46	4.20	1208	792	1417	1000	1583	1167	1833	1417	2083	1667	2167	1750	2333	1917	2375	1958
AK49	4.50	1128	739	1322	933	1478	1089	1711	1322	1944	1556	2022	1633	2178	1789	2217	1828
AK51	4.70	1080	707	1266	894	1415	1043	1638	1266	1862	1489	1936	1564	2085	1713	2122	1750
AK54	4.90	1036	679	1214	857	1357	1000	1571	1214	1786	1429	1857	1500	2000	1643	2036	1679

(Cont. next page)

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheave size.

FEATURES AND BENEFITS PAGE PT8-2	SELECTION/DIMENSIONS PAGES PT8-3	SELECTION PAGES PT8-10	
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1VP Sheave using A or AX Belt

DRIVEN RPM FOR 1750 RPM MOTOR																	
DRIVEN SHV.		1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
AK56	5.20	976	639	1144	808	1279	942	1481	1144	1683	1346	1750	1413	1885	1548	1918	1582
AK59	5.50	923	605	1082	764	1209	891	1400	1082	1591	1273	1655	1336	1782	1464	1814	1495
AK61	5.70	890	583	1044	737	1167	860	1351	1044	1535	1228	1596	1289	1719	1412	1750	1443
AK64	6.00	846	554	992	700	1108	817	1283	992	1458	1167	1517	1225	1633	1342	1663	1371
AK66	6.20	819	536	960	677	1073	790	1242	960	1411	1129	1468	1185	1581	1298	1609	1327
AK69	6.50	781	512	915	646	1023	754	1185	915	1346	1077	1400	1131	1508	1238	1535	1265
AK71	6.70	757	496	888	627	993	731	1149	888	1306	1045	1358	1097	1463	1201	1489	1228
AK74	7.00	725	475	850	600	950	700	1100	850	1250	1000	1300	1050	1400	1150	1425	1175
AK79	7.50	677	443	793	560	887	653	1027	793	1167	933	1213	980	1307	1073	1330	1097
AK84	8.00	634	416	744	525	831	613	963	744	1094	875	1138	919	1225	1006	1247	1028
AK89	8.50	597	391	700	494	782	576	906	700	1029	824	1071	865	1153	947	1174	968
AK94	9.00	564	369	661	467	739	544	856	661	972	778	1011	817	1089	894	1108	914
AK99	9.50	534	350	626	442	700	516	811	626	921	737	958	774	1032	847	1050	866
AK104	10.00	508	333	595	420	665	490	770	595	875	700	910	735	980	805	998	823
AK109	10.60	479	314	561	396	627	462	726	561	825	660	858	693	925	759	941	776
AK114	11.00	461	302	541	382	605	445	700	541	795	636	827	668	891	732	907	748
AK124	12.00	423	277	496	350	554	408	642	496	729	583	758	613	817	671	831	685
AK134	13.00	390	256	458	323	512	377	592	458	673	538	700	565	754	619	767	633
AK144	14.00	363	238	425	300	475	350	550	425	625	500	650	525	700	575	713	588
AK154	15.00	338	222	397	280	443	327	513	397	583	467	607	490	653	537	665	548
AK184	18.00	282	185	331	233	369	272	428	331	486	389	506	408	544	447	554	457

DRIVEN RPM FOR 1750 RPM MOTOR							
DRIVEN SHV		1VP68		1VP71		1VP75	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN
AK30	2.80	3875	3250	3938	3313	4188	3563
AK32	3.00	3617	3033	3675	3092	3908	3325
AK34	3.20	3391	2844	3445	2898	3664	3117
AK39	3.50	3100	2600	3150	2650	3350	2850
AK41	3.70	2932	2459	2980	2507	3169	2696
AK44	4.00	2713	2275	2756	2319	2931	2494
AK46	4.20	2583	2167	2625	2208	2792	2375
AK49	4.50	2411	2022	2450	2061	2606	2217
AK51	4.70	2309	1936	2346	1973	2495	2122
AK54	4.90	2214	1857	2250	1893	2393	2036
AK56	5.20	2087	1750	2120	1784	2255	1918
AK59	5.50	1973	1655	2005	1686	2132	1814
AK61	5.70	1904	1596	1934	1627	2057	1750
AK64	6.00	1808	1517	1838	1546	1954	1663
AK66	6.20	1750	1468	1778	1496	1891	1609
AK69	6.50	1669	1400	1696	1427	1804	1535
AK71	6.70	1619	1358	1646	1384	1750	1489
AK74	7.00	1550	1300	1575	1325	1675	1425
AK79	7.50	1447	1213	1470	1237	1563	1330
AK84	8.00	1356	1138	1378	1159	1466	1247
AK89	8.50	1276	1071	1297	1091	1379	1174
AK94	9.00	1206	1011	1225	1031	1303	1108
AK99	9.50	1142	958	1161	976	1234	1050
AK104	10.00	1085	910	1103	928	1173	998
AK109	10.60	1024	858	1040	875	1106	941
AK114	11.00	986	827	1002	843	1066	907
AK124	12.00	904	758	919	773	977	831
AK134	13.00	835	700	848	713	902	767
AK144	14.00	775	650	788	663	838	713
AK154	15.00	723	607	735	618	782	665
AK184	18.00	603	506	613	515	651	554

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheaves size.



SELECTION



1VP Sheave using B or BX Belt

DRIVEN RPM FOR 1750 RPM MOTOR																	
DRIVEN SHV.		1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
BK23	2.10	2667	2000	3083	2250	3417	2583	3917	3083	4417	3583	4583	3583	4917	4083	5000	4000
BK24	2.20	2545	1909	2943	2148	3261	2466	3739	2943	4216	3420	4375	3420	4693	3898	4773	3818
BK25	2.30	2435	1826	2815	2054	3120	2359	3576	2815	4033	3272	4185	3272	4489	3728	4565	3652
BK26	2.40	2333	1750	2698	1969	2990	2260	3427	2698	3865	3135	4010	3135	4302	3573	4375	3500
BK28	2.60	2154	1615	2490	1817	2760	2087	3163	2490	3567	2894	3702	2894	3971	3298	4038	3231
BK30	2.80	2000	1500	2313	1688	2563	1938	2938	2313	3313	2688	3438	2688	3688	3063	3750	3000
BK31	2.90	1931	1448	2233	1629	2474	1871	2836	2233	3198	2595	3319	2595	3560	2957	3621	2897
BK32	3.00	1867	1400	2158	1575	2392	1808	2742	2158	3092	2508	3208	2508	3442	2858	3500	2800
BK34	3.20	1750	1313	2023	1477	2242	1695	2570	2023	2898	2352	3008	2352	3227	2680	3281	2625
BK36	3.40	1647	1235	1904	1390	2110	1596	2419	1904	2728	2213	2831	2213	3037	2522	3088	2471
BK40	3.60	1556	1167	1799	1312	1993	1507	2285	1799	2576	2090	2674	2090	2868	2382	2917	2333
BK45	3.90	1436	1077	1660	1212	1840	1391	2109	1660	2378	1929	2468	1929	2647	2199	2692	2154
BK47	4.10	1366	1024	1579	1152	1750	1323	2006	1579	2262	1835	2348	1835	2518	2091	2561	2049
BK50	4.40	1273	955	1472	1074	1631	1233	1869	1472	2108	1710	2188	1710	2347	1949	2386	1909
BK52	4.60	1217	913	1408	1027	1560	1179	1788	1408	2016	1636	2092	1636	2245	1864	2283	1826
BK55	4.90	1143	857	1321	964	1464	1107	1679	1321	1893	1536	1964	1536	2107	1750	2143	1714
BK57	5.10	1098	824	1270	926	1407	1064	1613	1270	1819	1475	1887	1475	2025	1681	2059	1647
BK60	5.40	1037	778	1199	875	1329	1005	1523	1199	1718	1394	1782	1394	1912	1588	1944	1556
BK62	5.60	1000	750	1156	844	1281	969	1469	1156	1656	1344	1719	1344	1844	1531	1875	1500
BK65	5.90	949	712	1097	801	1216	919	1394	1097	1572	1275	1631	1275	1750	1453	1780	1424
BK67	6.10	918	689	1061	775	1176	889	1348	1061	1520	1234	1578	1234	1693	1406	1721	1377
BK70	6.40	875	656	1012	738	1121	848	1285	1012	1449	1176	1504	1176	1613	1340	1641	1313
BK72	6.60	848	636	981	716	1087	822	1246	981	1405	1140	1458	1140	1564	1299	1591	1273
BK75	6.90	812	609	938	685	1040	786	1192	938	1344	1091	1395	1091	1496	1243	1522	1217
BK77	7.10	789	592	912	665	1011	764	1158	912	1306	1060	1356	1060	1454	1208	1479	1183
BK80	7.40	757	568	875	639	970	733	1111	875	1253	1017	1301	1017	1395	1159	1419	1135
BK85	7.90	709	532	820	598	908	687	1041	820	1174	953	1218	953	1307	1085	1329	1063
BK90	8.40	667	500	771	563	854	646	979	771	1104	896	1146	896	1229	1021	1250	1000
BK95	8.90	629	472	728	531	806	610	924	728	1042	846	1081	846	1160	963	1180	944
BK100	9.40	596	447	689	503	763	577	875	689	987	801	1024	801	1098	912	1117	894
BK105	9.90	566	424	654	477	725	548	831	654	937	760	972	760	1043	866	1061	848
BK110	10.40	538	404	623	454	690	522	791	623	892	724	925	724	993	825	1010	808
BK115	10.90	514	385	594	433	658	498	755	594	851	690	883	690	947	787	963	771
BK120	11.40	491	368	568	414	629	476	721	568	814	660	844	660	906	752	921	737
BK130	12.40	452	339	522	381	579	438	663	522	748	607	776	607	833	692	847	677
BK140	13.40	418	313	483	353	535	405	614	483	692	562	718	562	771	640	784	627
BK160	15.40	364	273	420	307	466	352	534	420	602	489	625	489	670	557	682	545
BK190	18.40	304	228	352	257	390	295	447	352	504	409	523	409	561	466	571	457

(Cont. next page)

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HORSEPOWER RATING TABLES from DODGE engineering catalog for Driven Sheave size.

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

FEATURES AND BENEFITS PAGE PT8-2	SELECTION/DIMENSIONS PAGES PT8-3	SELECTION PAGES PT8-10	
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1VP Sheave using B or BX Belt

DRIVEN RPM FOR 1750 RPM MOTOR							
DRIVEN SHV.	1VP68		1VP71		1VP75		
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN
BK28	2.60	4375	3702	4442	3635	4712	3904
BK30	2.80	4063	3438	4125	3375	4375	3625
BK31	2.90	3922	3319	3983	3259	4224	3500
BK34	3.20	3555	3008	3609	2953	3828	3172
BK36	3.40	3346	2831	3397	2779	3603	2985
BK40	3.60	3160	2674	3208	2625	3403	2819
BK45	3.90	2917	2468	2962	2423	3141	2603
BK47	4.10	2774	2348	2817	2305	2988	2476
BK50	4.40	2585	2188	2625	2148	2784	2307
BK52	4.60	2473	2092	2511	2054	2663	2207
BK55	4.90	2321	1964	2357	1929	2500	2071
BK57	5.10	2230	1887	2265	1853	2402	1990
BK60	5.40	2106	1782	2139	1750	2269	1880
BK62	5.60	2031	1719	2063	1688	2188	1813
BK65	5.90	1928	1631	1958	1602	2076	1720
BK67	6.10	1865	1578	1893	1549	2008	1664
BK70	6.40	1777	1504	1805	1477	1914	1586
BK72	6.60	1723	1458	1750	1432	1856	1538
BK75	6.90	1649	1395	1674	1370	1775	1471
BK77	7.10	1602	1356	1627	1331	1725	1430
BK80	7.40	1537	1301	1561	1277	1655	1372
BK85	7.90	1440	1218	1462	1196	1551	1285
BK90	8.40	1354	1146	1375	1125	1458	1208
BK95	8.90	1278	1081	1298	1062	1376	1140
BK100	9.40	1210	1024	1229	1005	1303	1080
BK105	9.90	1149	972	1167	955	1237	1025
BK110	10.40	1094	925	1111	909	1178	976
BK115	10.90	1044	883	1060	867	1124	931
BK120	11.40	998	844	1013	829	1075	890
BK130	12.40	917	776	931	762	988	819
BK140	13.40	849	718	862	705	914	757
BK160	15.40	739	625	750	614	795	659
BK190	18.40	618	523	628	514	666	552

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.



SELECTION



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

2VP Sheave Using A or AX Belt

DRIVEN RPM FOR 1750 RPM MOTOR															
DRIVEN SHV.		2VP36		2VP42		2VP50		2VP56		2VP60		2VP62		2VP65	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
2AK20	1.80	2917	1944	3500	2528	4278	3306	4861	3889	--	--	--	--	--	--
2AK21	1.90	2763	1842	3316	2395	4053	3132	4605	3684	4789	3868	--	--	--	--
2AK22	2.00	2625	1750	3150	2275	3850	2975	4375	3500	4550	3675	4900	4025	4988	4113
2AK23	2.10	2500	1667	3000	2167	3667	2833	4167	3333	4333	3500	4667	3833	4750	3917
2AK25	2.30	2283	1522	2739	1978	3348	2587	3804	3043	3957	3196	4261	3500	4337	3576
2AK26	2.40	2188	1458	2625	1896	3208	2479	3646	2917	3792	3062	4083	3354	4156	3427
2AK27	2.50	2100	1400	2520	1820	3080	2380	3500	2800	3640	2940	3920	3220	3990	3290
2AK28	2.60	2019	1346	2423	1750	2962	2288	3365	2692	3500	2827	3769	3096	3837	3163
2AK30	2.80	1875	1250	2250	1625	2750	2125	3125	2500	3250	2625	3500	2875	3563	2938
2AK32	3.00	1750	1167	2100	1517	2567	1983	2917	2333	3033	2450	3267	2683	3325	2742
2AK34	3.20	1641	1094	1969	1422	2406	1859	2734	2188	2844	2297	3063	2516	3117	2570
2AK39	3.50	1500	1000	1800	1300	2200	1700	2500	2000	2600	2100	2800	2300	2850	2350
2AK41	3.70	1419	946	1703	1230	2081	1608	2365	1892	2459	1986	2649	2176	2696	2223
2AK44	4.00	1313	875	1575	1138	1925	1488	2188	1750	2275	1838	2450	2013	2494	2056
2AK46	4.20	1250	833	1500	1083	1833	1417	2083	1667	2167	1750	2333	1917	2375	1958
2AK49	4.50	1167	778	1400	1011	1711	1322	1944	1556	2022	1633	2178	1789	2217	1828
2AK51	4.70	1117	745	1340	968	1638	1266	1862	1489	1936	1564	2085	1713	2122	1750
2AK54	5.00	1050	700	1260	910	1540	1190	1750	1400	1820	1470	1960	1610	1995	1645
2AK56	5.20	1010	673	1212	875	1481	1144	1683	1346	1750	1413	1885	1548	1918	1582
2AK59	5.50	955	636	1145	827	1400	1082	1591	1273	1655	1336	1782	1464	1814	1495
2AK61	5.70	921	614	1105	798	1351	1044	1535	1228	1596	1289	1719	1412	1750	1443
2AK64	6.00	875	583	1050	758	1283	992	1458	1167	1517	1225	1633	1342	1663	1371
2AK74	7.00	750	500	900	650	1100	850	1250	1000	1300	1050	1400	1150	1425	1175
2AK84	8.00	656	438	788	569	963	744	1094	875	1137	919	1225	1006	1247	1028
2AK94	9.00	583	389	700	506	856	661	972	778	1011	817	1089	894	1108	914
2AK104	10.00	525	350	630	455	770	595	875	700	910	735	980	805	998	823
2AK114	11.00	477	318	573	414	700	541	795	636	827	668	891	732	907	748
2AK124	12.00	438	292	525	379	642	496	729	583	758	613	817	671	831	685
2AK134	13.00	404	269	485	350	592	458	673	538	700	565	754	619	767	633
2AK144	14.00	375	250	450	325	550	425	625	500	650	525	700	575	713	588
2AK154	15.00	350	233	420	303	513	397	583	467	607	490	653	537	665	548
2AK184	18.00	292	194	350	253	428	331	486	389	506	408	544	447	554	457

DRIVEN RPM FOR 1750 RPM MOTOR							
DRIVEN SHV.		2VP68		2VP71		2VP75	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN
2AK27	2.50	4340	3640	4410	3710	4690	3990
2AK28	2.60	4173	3500	4240	3567	4510	3837
2AK30	2.80	3875	3250	3938	3313	4188	3563
2AK32	3.00	3617	3033	3675	3092	3908	3325
2AK34	3.20	3391	2844	3445	2898	3664	3117
2AK39	3.50	3100	2600	3150	2650	3350	2850
2AK41	3.70	2932	2459	2980	2507	3169	2696
2AK44	4.00	2713	2275	2756	2319	2931	2494
2AK46	4.20	2583	2167	2625	2208	2792	2375
2AK49	4.50	2411	2022	2450	2061	2606	2217
2AK51	4.70	2309	1936	2346	1973	2495	2122
2AK54	5.00	2170	1820	2205	1855	2345	1995
2AK56	5.20	2087	1750	2120	1784	2255	1918
2AK59	5.50	1973	1655	2005	1686	2132	1814
2AK61	5.70	1904	1596	1934	1627	2057	1750

DRIVEN RPM FOR 1750 RPM MOTOR							
DRIVEN SHV.		2VP68		2VP71		2VP75	
SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN
2AK64	6.00	1808	1517	1838	1546	1954	1663
2AK74	7.00	1550	1300	1575	1325	1675	1425
2AK84	8.00	1356	1138	1378	1159	1466	1247
2AK94	9.00	1206	1011	1225	1031	1303	1108
2AK104	10.00	1085	910	1103	928	1173	998
2AK114	11.00	986	827	1002	843	1066	907
2AK124	12.00	904	758	919	773	977	831
2AK134	13.00	835	700	848	713	902	767
2AK144	14.00	775	650	788	663	838	713
2AK154	15.00	723	607	735	618	782	665
2AK184	18.00	603	506	613	515	651	554

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

FEATURES AND BENEFITS PAGE PT8-2	SELECTION/DIMENSIONS PAGES PT8-3	SELECTION PAGES PT8-10	
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2VP Sheaves Using B or BX Belts

DRIVEN RPM FOR 1750 RPM MOTOR																
Dia.	Driven Sheave		2VP36		2VP42		2VP50		2VP56		2VP60		2VP62		2VP65	
O.D.	SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
2.5	2BK25	2.30	2511	1902	2967	2207	3576	2815	4033	3272	--	--	--	--	--	--
2.7	2BK27	2.50	2310	1750	2730	2030	3290	2590	3710	3010	3850	3010	4130	3430	4200	3360
2.95	2BK28	2.60	2221	1683	2625	1952	3163	2490	3567	2894	3702	2894	3971	3298	4038	3231
3.15	2BK30	2.80	2062	1563	2437	1813	2937	2312	3312	2687	3438	2687	3688	3063	3750	3000
3.35	2BK32	3.00	1925	1458	2275	1692	2742	2158	3092	2508	3208	2508	3442	2858	3500	2800
3.55	2BK34	3.20	1805	1367	2133	1586	2570	2023	2898	2352	3008	2352	3227	2680	3281	2625
3.75	2BK36	3.40	1699	1287	2007	1493	2419	1904	2728	2213	2831	2213	3037	2522	3088	2471
3.95	2BK40	3.60	1604	1215	1896	1470	2285	1799	2576	2090	2674	2090	2868	2382	2917	2333
4.25	2BK45	3.90	1481	1122	1750	1301	2109	1660	2378	1929	2468	1929	2647	2199	2692	2154
4.45	2BK47	4.10	1409	1067	1665	1238	2006	1579	2262	1835	2348	1835	2518	2091	2561	2049
4.75	2BK50	4.40	1312	994	1551	1153	1869	1472	2108	1710	2188	1710	2347	1949	2386	1909
4.95	2BK52	4.60	1255	951	1484	1103	1788	1408	2016	1636	2092	1636	2245	1864	2283	1826
5.25	2BK55	4.90	1179	893	1393	1036	1679	1321	1893	1536	1964	1536	2107	1750	2143	1714
5.45	2BK57	5.10	1132	858	1338	995	1613	1270	1819	1475	1887	1475	2025	1681	2059	1647
5.75	2BK60	5.40	1069	810	1264	940	1523	1199	1718	1394	1782	1394	1912	1588	1944	1556
5.95	2BK62	5.60	1031	781	1219	906	1469	1156	1656	1344	1719	1344	1844	1531	1875	1500
6.25	2BK65	5.90	979	742	1157	860	1394	1097	1572	1275	1631	1275	1750	1453	1780	1424
6.45	2BK67	6.10	947	717	1119	832	1348	1061	1520	1234	1578	1234	1693	1406	1721	1377
6.75	2BK70	6.40	902	684	1066	793	1285	1012	1449	1176	1504	1176	1613	1340	1641	1312
7.75	2BK80	7.40	780	591	922	686	1111	875	1253	1017	1301	1017	1395	1159	1419	1135
8.75	2BK90	8.40	688	521	813	604	979	771	1104	896	1146	896	1229	1021	1250	1000
9.75	2BK100	9.40	614	465	726	540	875	689	987	801	1024	801	1098	912	1117	894
11.75	2BK120	11.40	507	384	599	445	721	568	814	660	844	660	906	752	921	737
12.75	2BK130	12.40	466	353	550	409	663	522	748	607	776	607	833	692	847	677
13.75	2BK140	13.40	431	326	509	379	614	483	692	562	718	562	771	640	784	627
15.75	2BK160	15.40	375	284	443	330	534	420	602	489	625	489	670	557	682	545
18.75	2BK190	18.40	314	238	371	276	447	352	504	409	523	409	561	466	571	457

DRIVEN RPM FOR 1750 RPM MOTOR												
Dia.	Driven Sheave		2VP68		2VP71		2VP75		2V58B70		2V68B80	
O.D.	SIZE	P.D.	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
3.55	2BK34	3.20	3555	3008	3555	2953	3828	3172	3828	3172	--	--
3.75	2BK36	3.40	3346	2831	3346	2779	3603	2985	3603	2985	3963	3500
3.95	2BK40	3.60	3160	2674	3160	2625	3403	2819	3403	2819	3743	3306
4.25	2BK45	3.90	2917	2468	2917	2423	3141	2603	3141	2603	3455	3051
4.45	2BK47	4.10	2774	2348	2774	2305	2988	2476	2988	2476	3287	2902
4.75	2BK50	4.40	2585	2188	2585	2148	2784	2307	2784	2307	3062	2705
4.95	2BK52	4.60	2473	2092	2473	2054	2663	2207	2663	2207	2929	2587
5.25	2BK55	4.90	2321	1964	2321	1929	2500	2071	2500	2071	2750	2429
5.45	2BK57	5.10	2230	1887	2230	1853	2402	1990	2402	1990	2642	2333
5.75	2BK60	5.40	2106	1782	2106	1750	2269	1880	2269	1880	2495	2204
5.95	2BK62	5.60	2031	1719	2031	1687	2188	1813	2188	1813	2406	2125
6.25	2BK65	5.90	1928	1631	1928	1602	2076	1720	2076	1720	2284	2017
6.45	2BK67	6.10	1865	1578	1865	1549	2008	1664	2008	1664	2209	1951
6.75	2BK70	6.40	1777	1504	1777	1477	1914	1586	1914	1586	2105	1859
7.75	2BK80	7.40	1537	1301	1537	1277	1655	1372	1655	1372	1821	1608
8.75	2BK90	8.40	1354	1146	1354	1125	1458	1208	1458	1208	1604	1417
9.75	2BK100	9.40	1210	1024	1210	1005	1303	1080	1303	1080	1434	1266
11.75	2BK120	11.40	998	844	998	829	1075	890	1075	890	1182	1044
12.75	2BK130	12.40	917	776	917	762	988	819	988	819	1087	960
13.75	2BK140	13.40	849	718	849	705	914	757	914	757	1006	888
15.75	2BK160	15.40	739	625	739	614	795	659	795	659	875	773
18.75	2BK190	18.40	618	523	618	514	666	552	666	552	732	647

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.



SELECTION



2VP Sheaves Using 5VX Belts

DRIVEN RPM FOR 1750 RPM MOTOR														
DRIVEN SHEAVE	2VP62		2VP65		2VP68		2VP71		2VP75		2V58B70		2V68B80	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
2/5V4.4	2564	2157	2605	2116	2808	2401	2849	2360	3012	2523	3012	2442	3419	2930
2/5V4.65	2423	2038	2462	2000	2654	2269	2692	2231	2846	2385	2846	2308	3231	2769
2/5V4.9	2297	1932	2333	1896	2516	2151	2552	2115	2698	2260	2698	2188	3063	2625
2/5V5.2	2201	1851	2236	1816	2410	2061	2445	2026	2585	2166	2585	2096	2934	2515
2/5V5.5	2042	1718	2074	1685	2236	1912	2269	1880	2398	2009	2398	1944	2722	2333
2/5V5.9	1901	1599	1931	1569	2082	1780	2112	1750	2233	1871	2233	1810	2534	2172
2/5V6.3	1778	1496	1806	1468	1948	1665	1976	1637	2089	1750	2089	1694	2371	2032
2/5V6.7	1670	1405	1697	1379	1830	1564	1856	1538	1962	1644	1962	1591	2227	1909
2/5V7.1	1575	1325	1600	1300	1725	1475	1750	1450	1850	1550	1850	1500	2100	1800
2/5V7.5	1490	1253	1514	1230	1632	1395	1655	1372	1750	1466	1750	1419	1986	1703
2/5V8.0	1396	1174	1418	1152	1528	1307	1551	1285	1639	1373	1639	1329	1861	1595
2/5V8.5	1313	1104	1333	1083	1438	1229	1458	1208	1542	1292	1542	1250	1750	1500
2/5V9.0	1239	1042	1258	1022	1357	1160	1376	1140	1455	1219	1455	1180	1652	1416
2/5V9.25	1205	1014	1224	995	1320	1128	1339	1109	1415	1186	1415	1148	1607	1377
2/5V9.75	1142	961	1161	943	1251	1070	1269	1052	1342	1124	1342	1088	1523	1306
2/5V10.3	1081	909	1098	892	1184	1012	1201	995	1270	1064	1270	1029	1441	1235
2/5V10.9	1021	859	1037	843	1118	956	1134	940	1199	1005	1199	972	1361	1167
2/5V11.3	984	828	1000	813	1078	922	1094	906	1156	969	1156	938	1313	1125
2/5V11.8	942	793	957	778	1032	882	1047	868	1107	927	1107	897	1256	1077
2/5V12.5	889	748	903	734	974	833	988	819	1044	875	1044	847	1185	1016
2/5V13.2	842	708	855	695	922	788	935	775	989	828	989	802	1122	962
2/5V14.0	793	667	806	655	869	743	881	730	932	781	932	755	1058	906
2/5V15.0	740	622	752	611	810	693	822	681	869	728	869	705	987	846
2/5V16.0	693	583	704	572	759	649	770	638	814	682	814	660	925	792
2/5V18.7	593	499	602	489	649	555	659	546	696	583	696	565	790	677
2/5V21.2	523	440	531	431	572	489	581	481	614	514	614	498	697	597
2/5V23.6	469	395	477	387	514	439	521	432	551	462	551	447	626	536
2/5V28.0	395	332	401	326	433	370	439	364	464	389	464	376	527	452

NOTE: For drive selections below the bold line, use HP ratings on TABLE 1. or TABLE 2.

For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE ENGINEERING Catalog for driven sheave size.

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



Drive Component Accessories

Drive Component Accessories	
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DRIVES COMPONENT ACCESSORIES



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Wide Range Belts - REEVES



Belt Series	For Pulley Numbers
1422	95, 5675, 406
1922	96, 97, 7202, 408
2322	98, 409
2926	98-1/2, 9205, 411
3236	910, 410, 410/8
4430	912, 912-15, 1110, 412 412/15, 1320, 1330
4830	414, 414/25

WIDE RANGE BELTS FOR REEVES PULLEYS

For Adjustable Speed Drive Applications
Oil and Heat Resistant
Static Conducting
Industry Standard Belt Numbers

1st Two Digits=Belt Width in Sixteenth Inch
2nd Two Digits=Sheave Groove Angle
Remaining Digits=Pitch Length
in Tenths of an inch.

Belt Size	DODGE P/N	REEVES P/N	Belt Size	DODGE P/N	REEVES P/N	Belt Size	DODGE P/N	REEVES P/N
1422V SERIES			2322V SERIES (CONT)			3226V SERIES (CONT)		
1422V270	109407	8H95450	2322V486	-	8H95155	3226V903	109760	8H95197
1422V300	109409	8H95123	2322V521	109031	8H95156	3226V963	109761	8H95198
1422V330	109411	8H95451	2322V541	109607	8H95157	3226V1023	109762	8H95475
1422V360	109011	8H95124	2322V601	109601	8H95466	3226V1083	109763	8H95476
1422V400	109414	8H95452	2322V661	109033	8H95159	4430V SERIES		
1422V420	109012	8H95125	2322V681	109611	8H95467	4430V548	109848	8H95479
1422V466	109418	8H95453	2322V721	109034	8H95162	4430V555	109849	8H95480
1422V480	109013	8H95126	2322V801	109614	8H95163	4430V578	109852	8H95481
1422V540	109014	8H95127	2322V886	109617	8H95468	4430V610	109705	8H95482
1422V600	109422	8H95128	2322V1001	109619	8H95469	4430V630	109855	8H95483
1422V660	109423	8H95454	2926V SERIES			4430V660	109856	8H95484
1422V720	109424	8H95455	2926V471	109713	8H95477	4430V670	109705	8H95705
1422V780	109425	8H95456	2926V486	109715	8H95170	4430V690	109858	8H95485
1922V SERIES			2926V521	109717	8H95171	4430V700	109050	8H95486
1922V256	109493	8H95457	2926V546	109719	8H95172	4430V730	109862	8H95204
1922V321	109498	8H95133	2926V574	109720	8H95173	4430V740	109863	8H95740
1922V338	109500	8H95458	2926V586	109721	8H95174	4430V790	109837	8H95205
1922V363	109501	8H95134	2926V606	109722	8H95175	4430V850	109052	8H95206
1922V386	109020	8H95135	2926V636	109740	8H95177	4430V910	109053	8H95207
1922V403	109504	8H95459	2926V646	109724	8H95178	4430V970	109845	8H95208
1922V417	109505	8H95460	2926V686	109726	8H95180	4430V1030	109893	8H95209
1922V426	109021	8H95137	2926V726	109728	8H95182	4430V1090	109877	8H95210
1922V443	109507	8H95461	2926V776	109729	8H95183	4430V1150	109879	8H95488
1922V454	109508	8H95139	2926V834	109731	8H95184	4430V1320	109882	8H95489
1922V484	109022	8H95140	2926V856	109732	8H95185	4480V SERIES		
1922V544	109023	8H95142	2926V906	109734	8H95187	4830V614	109907	8H95490
1922V604	109024	8H95143	2926V966	109735	8H95478	4830V653	109908	8H95491
1922V646	109515	8H95462	3226V SERIES			4830V692	109909	8H95492
1922V666	109516	8H95145	3226V433	109749	8H95470	4830V699	109910	8H95493
1922V726	109520	8H95148	3226V465	109750	8H95471	4830V730	109911	8H95494
1922V751	109521	8H95463	3226V505	109751	8H95472	4830V850	109912	8H95495
1922V756	109522	8H95464	3226V545	109753	8H95473	4830V970	109913	8H95496
1922V806	109523	8H95149	3226V585	109754	8H95474	4830V1070	109914	8H95497
2322V SERIES			3226V603	109040	8H95192			
2322V364	109599	8H95465	3226V663	109041	8H95193			
2322V396	109601	8H95466	3226V723	109042	8H95194			
2322V421	109602	8H95153	3226V783	109043	8H95195			
2322V443	-	8H95154	3226V843	109044	8H95196			



DRIVES COMPONENT ACCESSORIES



Wide Range Belts

Part No.	Descr.	Wt.	Part No.	Descr.	Wt.	Part No.	Descr.	Wt.	Part No.	Descr.	Wt.
1200 SERIES			1900 SERIES			2500 SERIES			3200 SERIES		
109400	1228V255	.26	109520	1922V726	1.30	109100	2530V595	2.50	109752	3226V514	2.20
1400 SERIES			109522	1922V756	1.40	109652	2530V600	2.30	109753	3226V545	2.30
109407	1422V270	.30	109523	1922V806	1.50	109653	2530V610	2.50	109754	3226V585	2.50
109408	1422V290	.33	109524	1922V846	1.50	109101	2530V630	2.70	109040	3226V603	2.40
109409	1422V300	.30	109525	1922V891	1.60	109109	2530V660	2.60	109263	3226V650	2.93
109411	1422V330	.37	109533	1926V250	.50	109102	2530V670	2.60	109041	3226V663	2.80
109412	1422V340	.40	109068	1926V275	.53	109658	2530V690	2.60	109042	3226V723	3.10
109011	1422V360	.50	109542	1930V366	.80	109104	2530V730	3.00	109043	3226V783	3.40
109414	1422V400	.45	109543	1930V375	.81	109662	2530V740	2.80	109044	3226V843	3.60
109012	1422V420	.50	109544	1930V400	.87	109664	2530V790	3.00	109760	3226V903	3.90
109416	1422V440	.50	109545	1930V425	.90	109107	2530V840	3.30	109761	3226V963	4.10
109417	1422V460	.52	109546	1930V431	.93	109672	2530V990	3.70	109763	3226V1083	4.60
109418	1422V466	.52	109549	1930V491	1.10	109675	2530V1090	4.10	109766	3230V419	2.10
109419	1422V470	.53	109552	1930V541	1.10	2600 SERIES			109772	3230V670	3.40
109013	1422V480	.60	109554	1930V591	1.30	109688	2626V369	1.20	109774	3230V710	3.60
109014	1422V540	.70	109555	1930V600	1.30	109689	2626V388	1.20	109803	3236V369	1.60
109422	1422V600	.68	109557	1930V641	1.30	109692	2630V345	1.00	109805	3236V432	1.90
109423	1422V660	.74	109559	1930V691	1.50	109694	2636V332	1.10	109807	3236V478	2.40
109425	1422V780	.87	109561	1930V750	1.60	2800 SERIES			3400 SERIES		
109424	1430V215	.31	109562	1930V791	1.70	109696	2822V778	3.40	109822	3432V450	2.13
1600 SERIES			109565	1930V891	1.90	109698	2826V412	1.50	109809	3432V456	2.10
109459	1626V262	.42	109568	1930V991	2.10	109699	2826V452	1.60	109808	3432V480	2.27
109461	1626V293	.47	109571	1930V1091	2.30	109250	2830V337	1.13	109810	3432V484	2.20
109462	1626V304	.40	2100 SERIES			109701	2830V363	1.00	109269	3432V534	2.52
109463	1626V330	.50	109585	2126V309	.60	109700	2830V366	1.03	3600 SERIES		
109464	1626V339	.60	2200 SERIES			109251	2830V367	1.23	109817	3636V479	2.50
109466	1626V384	.70	109590	2226V307	.58	109702	2830V393	.99	3700 SERIES		
109469	1626V428	.68	109592	2230V266	.49	109703	2830V422	1.50	109821	3726V558	3.40
109470	1626V440	.70	109594	2230V275	.60	109706	2836V343	1.20	3800 SERIES		
109472	1626V513	.81	109596	2230V326	.69	109708	2836V380	1.30	109824	3826V465	2.60
109473	1626V517	.82	2300 SERIES			2900 SERIES			109826	3830V510	3.10
109475	1626V604	.95	109599	2322V364	.90	109710	2926V366	1.40	109827	3830V517	3.20
109477	1626V700	1.10	109601	2322V601	1.10	109711	2926V400	1.50	109835	3830V580	6.60
109480	1628V315	.51	109602	2322V421	1.00	109712	2926V426	1.60	109828	3830V587	3.30
109479	1628V210	.29	109604	2322V441	1.20	109713	2926V471	1.80	109830	3836V418	2.00
109482	1632V210	.40	109030	2322V481	1.50	109714	2926V477	1.60	109831	3836V426	2.10
1800 SERIES			109031	2322V521	1.60	109715	2926V486	1.80	109832	3836V654	3.50
109485	1822V328	.57	109607	2322V541	1.40	109716	2926V491	1.80	109833	3836V734	3.90
109487	1828V368	.73	109032	2322V601	1.80	109717	2926V521	2.00	109834	3836V794	4.40
1900 SERIES			109609	2322V621	1.60	109719	2926V546	1.90	4000 SERIES		
109493	1922V256	.50	109033	2322V661	1.90	109720	2926V574	2.10	109836	4030V538	3.40
109494	1922V277	.51	109611	2322V681	1.80	109721	2926V721	2.20	109840	4036V541	3.50
109495	1922V282	.60	109612	2322V701	1.80	109722	2926V606	2.10	109841	4036V547	3.60
109496	1922V289	.55	109034	2322V721	2.30	109723	2926V616	2.30	4200 SERIES		
109497	1922V302	.56	109614	2322V801	2.10	109740	2926V636	2.30	109843	4230V556	3.30
109498	1922V321	.60	109615	2322V826	2.30	109724	2926V724	2.40	109844	4230V605	3.60
109499	1922V332	.61	109617	2322V886	2.30	109725	2926V666	2.40	4400 SERIES		
109501	1922V363	.60	109618	2322V921	2.40	109726	2926V726	2.40	109846	4430V510	3.70
109502	1922V381	.70	109620	2322V1061	2.80	109727	2926V706	2.60	109847	4430V530	3.80
109020	1922V386	.80	109623	2326V310	.74	109728	2926V726	2.80	109848	4430V548	3.90
109504	1922V403	.70	109242	2326V359	.92	109729	2926V776	2.80	109849	4430V555	4.00
109505	1922V417	.76	109625	2330V273	.56	109730	2926V786	2.90	109851	4430V570	4.10
109021	1922V426	.90	2400 SERIES			109731	2926V834	2.90	109852	4430V578	4.20
109507	1922V443	.81	109631	2426V343	.82	109732	2926V856	3.10	109854	4430V610	4.30
109508	1922V454	.70	109637	2430V297	.71	109733	2926V891	3.52	109855	4430V630	4.40
109509	1922V460	.84	109639	2436V331	.77	109734	2926V906	3.30	109856	4430V660	4.50
109022	1922V484	1.20	2500 SERIES			109735	2926V966	3.50	109857	4430V670	4.70
109511	1922V526	.96	109641	2526V314	.92	109736	2926V1006	3.70	109858	4430V690	4.90
109023	1922V544	1.20	109644	2530V470	1.80	3200 SERIES			109050	4430V700	4.80
109024	1922V604	1.40	109647	2530V530	1.90	109745	3226V392	1.50	109861	4430V710	5.10
109514	1922V630	1.10	109648	2530V550	1.90	109262	3226V439	1.99	109862	4430V730	5.40
109515	1922V646	1.20	109650	2530V575	2.20	109764	3226V450	2.00	109863	4430V740	5.30
109516	1922V516	1.20				109750	3226V465	2.00			
109517	1922V686	1.20				109751	3226V505	2.20			
109517	1922V706	1.30									

TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories



DRIVES COMPONENT ACCESSORIES



TORQUE-TAMER

Bushings

V-Drives

FHP

Drives Component Accessories

Wide Range Belts (cont.)

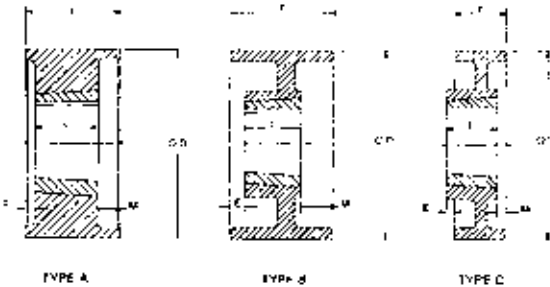
Part No.	Descr.	Wt.	Part No.	Descr.	Wt.	Part No.	Descr.	Wt.
4430 SERIES			4800 SERIES			3230HV SERIES		
109865	4430V760	5.40	109906	4830V602	4.70	109789	3230HV528	2.60
109051	4430V790	6.00	109908	4830V653	5.10	109790	3230HV553	2.80
109052	4430V850	6.30	109910	4830V699	5.50	109791	3230HV570	2.90
109053	4430V910	6.90	109916	4836V588	4.60	109792	3230HV585	2.90
109054	4430V970	6.70	109918	4836V618	4.90	109793	3230HV603	3.20
109875	4430V1030	7.50	109920	4836V655	5.20	109794	3230HV613	3.10
109877	4430V877	8.40	109057	4836V670	5.99	109795	3230HV620	3.10
109879	4430V1150	8.10	109927	4836V850	6.70	109796	3230HV626	3.10
109882	4430V1320	9.30	109066	4836V1180	11.52	109797	3230HV644	3.20
109885	4430V1610	11.40	5100 SERIES			109802	3230HV656	3.88
109886	4436V525	3.70	109825	5130V732	8.44	109798	3230HV670	3.40
109887	4436V551	3.90	109935	5228V930	9.70	109799	3230HV685	3.50
109889	4436V561	4.00	109936	5230V734	7.80	109800	3230HV702	3.50
109890	4436V576	4.10	109829	5230V867	10.16	109801	3230HV723	3.60
109892	4436V646	4.70	5600 SERIES			109806	3230HV821	4.85
4600 SERIES			109939	5636V750	8.20	109814	3230HV856	5.05
109894	4626V596	4.90	109940	5636V774	8.40	109816	3230HV931	5.49
109896	4630V650	5.90						
109897	4630V663	6.00						
109901	4630V733	7.39						
109904	4636V613	5.60						

TAPER-LOCK FLAT FACE PULLEYS

The TAPER-LOCK flat face pulley was designed primarily to be used with adjustable speed drives using wide range belts. They are made of quality gray iron and are carefully static balanced.



TAPER-LOCK bushings grip the shaft but can be easily removed. One of the outstanding features is that they go from "shelf-to-shaft" without costly re boring, keyseating or machining.



O.D.	Part No.	Description	Wt.	* DIMENSIONS		L	E	M
				Type				
2.5" FACE WIDTH								
5	330250	5 X 2.5-2012	4.6	A-1	1.25	0.25	1.0	
6	330251	6 X 2.5-2012	8.1	A-1	1.25	0.25	1.0	
7	330252	7 X 2.5-2012	8.0	B-2	1.25	0.38	0.88	
8	330253	8 X 2.5-2012	9.0	B-2	1.25	0.38	0.88	
9	330254	9 X 2.5-2012	13.5	B-2	1.25	0.44	0.81	
10	330255	10 X 2.5-2012	16.3	B-2	1.25	0.44	0.81	
11	330256	11 X 2.5-2012	17.9	B-3	1.25	0.44	0.81	
12	330257	12 X 2.5-2012	19.6	B-3	1.25	0.44	0.81	
14	330258	14 X 2.5-3020	23.4	C-3	2.0	0.38	0.88	
16	330259	16 X 2.5-3020	30.8	C-3	2.0	0.38	0.88	
18	330260	18 X 2.5-3020	35.3	C-3	2.0	0.38	0.88	
20	330261	20 X 2.5-3020	44.8	C-3	2.0	0.44	0.94	
3.25" FACE WIDTH								
10	330262	10 X 3.25-2012	18.2	B-3	1.25	0.81	1.19	
11	330263	11 X 3.25-2012	20.5	B-3	1.25	0.81	1.19	
12	330264	12 X 3.25-2012	22.4	B-3	1.25	0.81	1.19	
14	330265	14 X 3.25-3020	28.4	B-3	2.00	0.06	1.19	
16	330266	16 X 3.25-3020	39.4	B-3	2.00	0.06	1.19	
18	330267	18 X 3.25-3020	38.5	B-3	2.00	0.13	1.13	
20	330268	20 X 3.25-3020	48.8	B-3	2.00	0.13	1.13	
22	330269	22 X 3.25-3020	51.8	B-3	2.00	0.06	1.19	
24	330270	24 X 3.25-3020	58.3	B-3	2.00	0.13	1.13	
4.25" FACE WIDTH								
12	330271	12 x 4.25-3020	26.2	B-3	2.0	0.06	2.19	
14	330272	14 x 4.25-3020	26.2	B-3	2.0	0.13	2.13	
16	330273	16 x 4.25-3020	36.0	B-3	2.0	0.13	2.13	
18	330274	18 x 4.25-3020	41.7	B-3	2.0	0.13	2.13	
20	330279	20 x 4.25-3020	44.3	B-3	2.0	0.13	2.13	
22	330275	22 x 4.25-3020	55.8	B-3	2.0	0.13	2.13	
24	330276	24 x 4.25-3020	59.3	B-3	2.0	0.13	2.13	

* Sheave Type: -1 = Block, -2 = Web, -3 = Arm

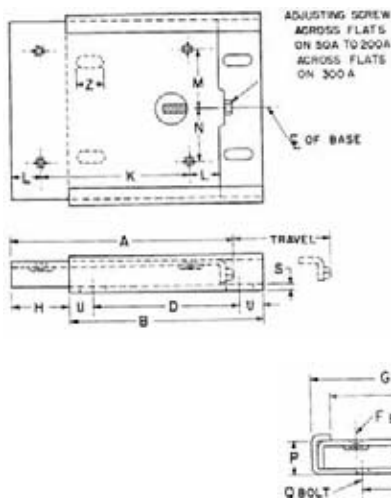


DODGE Motor Bases TYPE A SLIDE MOTOR BASES



Type A Motor Bases are fabricated of steel which offers a base of rugged design, compact and smooth in appearance. These bases, which are designed to provide adequate travel, are fully adjustable by the use of a single adjusting screw and have elongated mounting holes in the base plate.

Order by base number. Bases are tapped to receive popular NEMA frames and can be tapped on order for others by specifying the frame size required. See table below.



TYPE A SLIDE MOTOR BASE DIMENSIONS

Base No. Part No.	NEMA Motor Frame No.		Travel	A	B	C	D	E	F *	G	H	K	L
	1750 RPM	1160 RPM											
50A 122120	213	213, 213T	4.75	11.25	10.75	9.38	7.44	7	3/8	10.25	2.06	8.5	1.13
	215	215							3/8			8.5	1.13
	182T*	182T*							3/8			7.5	1.63
	184T*	184T*							3/8			7.5	1.63
100A 122121	254, 254U	254, 254U, 254T	4.75	13.5	13	12.81	8.25	10	1/2	14.25	2.38	10	1.5
	256U	256U							1/2			10	1.5
	213T*	.....							3/8			8.5	2.25
	215T*	215T*							3/8			5.5	2.25
	284, 284U, 284T	284, 284U, 284T	6.88	16.75	16.25	15.81	11.50	12	1/2	17.25	3.38	11	2.63
200A 122122	286U, 286T	286U, 286T							1/2			11	2.63
	324, 324U	324, 324U							5/8			12.5	1.88
	326, 326U	326, 326U							5/8			12.5	1.88
	254T*	.....							1/2			10	3.13
	256T*	256T*							1/2			10	3.13
	364, 364U	364, 364U	6.25	18.88	18.25	16.31	11.88	12.25	5/8	18.13	13.25	14	2.13
300A 122123	365	365							5/8			14	2.13
	324T*	324T*							5/8			12.5	2.88

Base No. Part No.	M	N	P	Q	S	U	Z
50A 122120	2.0	3.5					
	3.5	3.5					
	2.75	1.75	1.75	.38	.13	1.66	1.69
	2.75	2.75					
100A 122121	3.25	5.0					
	5.0	5.0					
	2.75	2.75	2	.68	.19	2.38	2.5
	3.5	3.5					
	5.25	4.25					
200A 122122	5.25	5.75					
	4.5	6.0					
	6.0	6.0	2.25	.68	.19	2.38	2.5
	4.75	3.5					
	4.75	5.25					
	5.13	6.13					
300A 122123	6.13	6.13	2.5	.68	.25	3.19	3.63
	5.63	4.83					

* Bases are tapped with national coarse threads for those motor frames not marked with an asterisk. Bases for motor frames marked with an asterisk will be drilled and tapped on order at an extra charge and will require "F" diameter motor bolts and nuts – when ordering specify NEMA motor frame size.



DRIVES COMPONENT ACCESSORIES



TORQUE-TAMER

Bushings

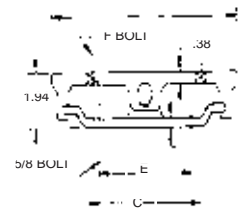
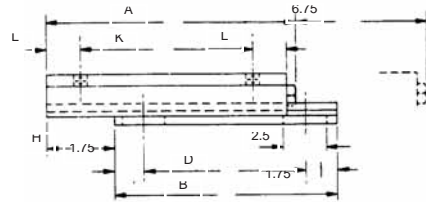
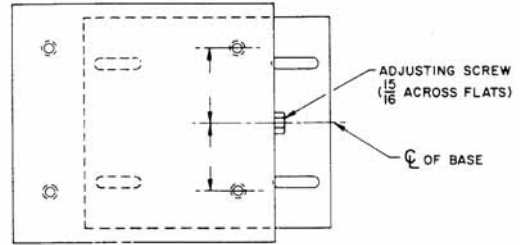
V-Drives

FHP

Drives Component Accessories

DODGE Motor Bases

TYPE B SLIDE MOTOR BASES



Type A Motor Bases are made of fabricated steel and include all of the same quality features as the Type A bases. Type B bases were primarily designed to be used where a base of heavier construction is required.

Order by base number. Bases are tapped to receive popular NEMA frames and can be tapped on order for others by specifying the frame size required. See table below.

TYPE B SLIDE MOTOR BASES

Base No. Part No.	NEMA Motor Frame No.		Wt.	A	B	C	D	E	F	G	H	K	L	M	N
	1750 RPM	1160 RPM													
11B 122114	254, 254U	254, 254U	37	14.38	13	9.25	9.5	6.5	1/2	13	3.88	10.0	2.0	4.13	4.13
	215*	215*, 215T*							3/8			8.5	2.75	3.5	3.5
	184T*	184T*							3/8			7.5	3.25	2.75	2.75
	213T*	213T*							3/8			8.5	2.75	2.75	2.75
22B 122115	284, 284U	284, 284U	37	14.38	13	9.25	9.5	6.5	1/2	13	3.88	11.0	1.5	4.75	4.75
	256U*	256U*, 265T*							1/2			10.0	2.0	5.0	5.0
	215T*	.....							3/8			8.5	2.75	3.5	3.5
	254T*	254T*							1/2			10.0	2.0	4.13	4.13
33B 122116	324, 324U	324, 324U	48	16.38	14	11.5	10.5	7.75	5/8	15.75	4.38	12.5	1.75	5.25	5.25
	326, 326U	326, 326U							5/8			12.5	1.75	6.0	6.0
	286U*, 286T*	286U*, 286T*							1/2			11.0	2.5	5.5	5.5
	256T*	.....							1/2			10.0	3.0	5.0	5.0
45B 122118	364, 364U	364, 364U	56	18.38	16	12.25	12.5	8	5/8	16.5	4.38	14.0	2.0	5.13	6.13
	365	365							5/8			14.0	2.0	6.13	6.13
	324T*	324T*							5/8			12.5	2.75	5.75	4.75

* Bases are tapped with national coarse threads for those motor frames not marked with an asterisk.

Bases for motor frames marked with an asterisk will be drilled and tapped on order at an extra charge and will require "F" diameter bolts and nuts – when ordering specify NEMA motor frame size.



Shaft Collars



Solid Steel Shaft Collars						
Shaft Size	Part Number		Dimensions			
	Steel	Stainless	O.D.	Width	Screw	Wt.
1/8	-	456225	3/8	1/4	#6	0.01
3/16	040001	456226	7/16	1/4	#8	0.01
1/4	040002	456227	1/2	5/16	#10	0.01
5/16	040003	456228	5/8	5/16	#10	0.02
3/8	040004	456229	3/4	3/8	1/4	0.03
7/16	040005		7/8	7/16	1/4	0.05
1/2	040006	456230	1	7/16	1/4	0.07
9/16	040007		1	7/16	1/4	0.06
5/8	040008	456231	1-1/8	1/2	5/16	0.09
11/16	040009		1-1/4	9/16	5/16	0.13
3/4	040010	456232	1-1/4	9/16	5/16	0.12
13/16	040011		1-1/4	9/16	5/16	0.11
7/8	040012	456233	1-1/2	9/16	5/16	0.18
15/16	040013		1-1/2	9/16	5/16	0.17
1	040014	456234	1-1/2	5/8	5/16	0.17
1-1/16	040015		1-3/4	5/8	5/16	0.26
1-1/8	040016	456235	1-3/4	5/8	5/16	0.24
1-3/16	040017		2	11/16	3/8	0.38
1-1/4	040018	456236	2	11/16	3/8	0.36
1-5/16	010019		2-1/8	11/16	3/8	0.41
1-3/8	040020		2-1/8	3/4	3/8	0.42
1-7/16	040021		2-1/4	3/4	3/8	0.48
1-1/2	040022	456237	2-1/4	3/4	3/8	0.45
1-9/16	040023		2-1/2	13/16	3/8	0.67
1-5/8	040024		2-1/2	13/16	3/8	0.63
1-11/16	040025		2-1/2	13/16	3/8	0.59
1-3/4	040026	456238	2-5/8	7/8	1/2	0.71
1-7/8	040027		2-3/4	7/8	1/2	0.76
1-15/16	040028		3	7/8	1/2	0.98
2	040029	456239	3	7/8	1/2	0.93
2-3/16	040030		3-1/4	15/16	1/2	1.16
2-1/4	040031		3-1/4	15/16	1/2	1.11
2-7/16	040032		3-1/2	1	1/2	1.36
2-1/2	040033		3-1/2	1	1/2	1.30
2-15/16	040034		4	1-1/8	1/2	1.83

Bore Tolerance	
Bore	Tolerance
1/8 - 1/2	+0.0005/+0.0025
9/16 - 2	+0.0005/+0.0030
>2	+0.0010/+0.0040

Solid Iron Shaft Collars				
Shaft Size	Part Number	Dimensions		
		O.D.	Width	Wt.
1-15/16	010020	3-3/8	1-3/8	1.75
2	010021	3-3/8	1-3/8	1.75
2-3/16	010024	3-3/4	1-3/8	3
2-7/16	010028	4-1/4	1-1/2	3
2-1/2	010029	4-1/4	1-1/2	3
2-11/16	010032	4-3/4	1-1/2	5
2-15/16	010036	5	1-5/8	5
3-3/16	010039	5-1/2	1-5/8	7
3-7/16	010043	5-3/4	1-3/4	8
3-15/16	010048	6-1/2	1-7/8	10.5
4-7/16	010051	7-1/4	2	13.5
4-15/16	010054	8	2-1/8	17
5-7/16	010055	8-3/4	2-1/8	20
5-15/16	010056	9-1/4	2-1/4	22
6	010057	9-1/4	2-1/4	22
6-1/2	010058	10	2-1/4	25
7	010059	10-1/2	2-3/8	30
7-1/2	010060	11-3/8	2-1/2	35
8	010061	12-1/8	2-7/8	45

Bore Tolerance	
Bore	Tolerance
<1-1/2	+0.002/+0.004
1-9/16 - 2-1/2	+0.003/+0.005
2-9/16 - 4	+0.003/+0.006
4-1/16 - 6	+0.003/+0.007
6-1/16 - 8	+0.004/+0.008

Split Iron Shaft Collars				
Shaft Size	Part Number	Dimensions		
		O.D.	Width	Wt.
1-1/8	010075	3-1/8	1-1/4	1.3
1-3/16	010076	3-1/8	1-1/4	1.3
1-1/4	010077	3-1/8	1-1/4	1.3
1-5/16	010078	3-3/8	1-7/16	1.5
1-7/16	010080	3-3/8	1-7/16	1.5
1-1/2	010081	3-3/8	1-7/16	1.5
1-11/16	010084	3-3/4	1-9/16	2.3
1-3/4	010085	3-3/4	1-9/16	2.3
1-15/16	010088	4-1/16	1-3/4	2.8
2	010089	4-1/16	1-3/4	2.8
2-3/16	010092	4-1/2	1-7/8	3.0
2-1/4	010093	4-1/2	1-7/8	3.0
2-7/16	010096	4-7/8	2	4.0
2-1/2	010097	4-7/8	2	4.0
2-11/16	010100	5-5/16	2-1/16	5.0
2-15/16	010104	5-5/8	2-5/16	5.8
3	010105	5-5/8	2-5/16	5.8
3-3/16	010107	6-1/16	2-3/8	8.5
3-7/16	010110	6-7/8	2-9/16	9.8
3-11/16	010112	6-13/16	2-5/8	10.0
3-15/16	010114	7-3/16	2-3/4	11.0
4-7/16	010117	8-1/8	3-5/16	16.5
4-15/16	010120	8-3/4	3-1/2	20.5
5-7/16	010123	9-5/8	3-3/4	28.0
5-15/16	010126	10-1/8	4-1/16	30.0
6	010127	10-1/8	4-1/16	30.0
6-1/2	010128	11	4-1/4	41.0
7	010129	12	4-1/2	46.0
7-1/2	010130	12-15/16	4-11/16	56.0
8	010131	13-5/8	5-1/16	69.0

Bore Tolerance	
Bore	Tolerance
<1-1/2	+0.002/+0.004
1-9/16 - 2-1/2	+0.003/+0.005
2-9/16 - 4	+0.003/+0.006
4-1/16 - 6	+0.003/+0.007
6-1/16 - 8	+0.004/+0.008



DRIVES COMPONENT ACCESSORIES



TORQUE-TAMER

Bushings

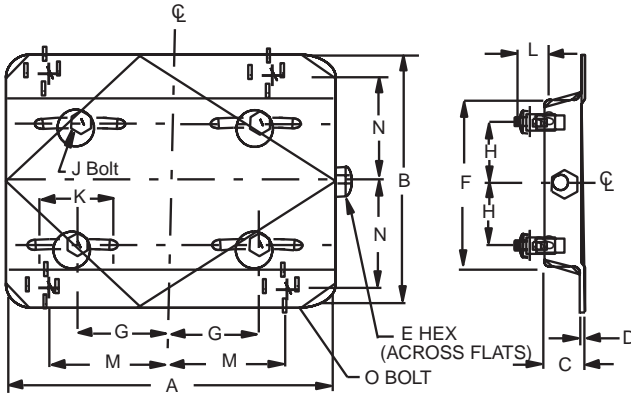
V-Drives

FHP

Drives Component Accessories

Adjustable NEMA Motor Bases

DODGE Adjustable motor bases provide a convenient method for mounting standard NEMA-frame motors. Hex-screw "E" is used to adjust the drive center distance over range "K" for tensioning V-Belt and Synchronous belt drives. Once the drive is tensioned, bolts "J" are tightened for a secure, stable mounting of the motor.



Style A



Style B

SPECIFICATIONS AND DIMENSIONS

Base No.	Part No.	Wt.	Style	Dimensions											Bolt Dimensions			
				A	B	C	D	F	G	H	K	L	M	N	Adj.	Hex	J	O
56	122090	3.0	A	10.63	6.50	1.13	0.08	4.50	2.44	1.50	3.00	0.87	3.81	2.88	3/8	9/16	5/16	3/8
143	122091	5.0	A	10.50	7.50	1.13	0.12	5.50	2.75	2.00	3.00	0.81	3.75	3.38	3/8	9/16	5/16	3/8
145	122092	6.0	A	10.50	8.50	1.13	0.12	6.50	2.75	2.50	3.00	0.81	3.75	3.88	3/8	9/16	5/16	3/8
182	122093	9.0	A	12.75	9.50	1.50	0.13	6.50	3.75	2.25	3.00	1.25	4.50	4.25	1/2	3/4	3/8	1/2
184	122094	9.5	A	12.75	10.50	1.50	0.13	7.50	3.75	2.75	3.00	1.25	4.50	4.75	1/2	3/4	3/8	1/2
213	122095	13.5	A	15.00	11.00	1.75	0.16	7.50	4.25	2.75	3.50	1.25	5.25	4.75	1/2	3/4	3/8	1/2
215	122096	15.5	A	15.00	12.50	1.75	0.16	9.00	4.25	3.50	3.50	1.25	5.25	5.50	1/2	3/4	3/8	1/2
254	122097	17.5	B	17.75	15.13	2.00	0.19	10.75	5.00	4.13	4.00	1.44	6.25	6.63	5/8	15/16	1/2	5/8
256	122098	18.5	B	17.75	16.88	2.00	0.19	12.50	5.00	5.00	4.00	1.44	6.25	7.50	5/8	15/16	1/2	5/8
284	122099	21.0	B	19.75	16.88	2.00	0.19	12.50	5.50	4.75	4.50	1.69	7.00	7.50	5/8	15/16	1/2	5/8
286	122100	22.0	B	19.75	18.38	2.00	0.19	14.00	5.50	5.50	4.50	1.69	7.00	8.25	5/8	15/16	1/2	5/8
324	122101	31.0	B	22.75	19.25	2.50	0.19	14.00	6.25	5.25	5.25	2.19	8.00	8.25	3/4	1-1/8	5/8	3/4
326	122102	32.0	B	22.75	20.75	2.50	0.19	15.50	6.25	6.00	5.25	2.19	8.00	9.25	3/4	1-1/8	5/8	3/4
364	122103	44.0	B	25.50	20.50	2.50	0.25	15.50	7.00	5.63	6.00	2.06	9.00	9.13	3/4	1-1/8	5/8	3/4
365	122104	45.0	B	25.50	21.50	2.50	0.25	16.50	7.00	6.13	6.00	2.06	9.00	9.63	3/4	1-1/8	5/8	3/4



DYNA-SYNC[®] Drives

Features/Benefits PT10-2

Specification: Pulleys

 XL Pitch PT10-3

 L Pitch PT10-4

 H Pitch PT10-5

 XH Pitch PT10-7

 Reborable PT10-9

Specification: Belts

 Dual DYNA-SYNC PT10-11

 XL Pitch PT10-12

 L Pitch PT10-12

 H Pitch PT10-13

 XH Pitch PT10-13

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Part Number Index INDEX-1

Keyword Index INDEX-29



FEATURES/BENEFITS



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

DYNA-SYNC Drives



The Original Timing Drive

- Synchronized No-Slip Transmission
- No Lubrication Required
- Efficiency: Approximately 98%
- Low Maintenance
- Virtually No Backlash
- Constant Linear Velocity
- Drive Ratios to 8.5:1
- Pitches: XL, L, H, and XH

DYNA-SYNC Belts



DYNA-SYNC Pulleys

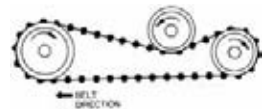


- Tough, Tensile Cords, No-Stretch Fiberglass
- Durable Neoprene Rubber Body
- Long-Wearing Nylon Duck Facing
- Oil, Heat, and Ozone Resistant

- Clean, Compact TAPER-LOCK Design
- Easy-on/Easy-off
- Precision Manufactured in ISO9000 Certified Plant
- Flanged Design Standard on Driver Sizes



- Dual-Sided Teeth Available for Serpentine Drives

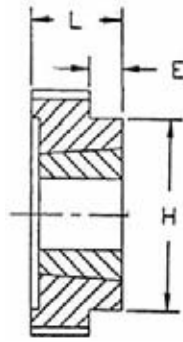




DYNA-SYNC Pulleys - XL, L Pitch

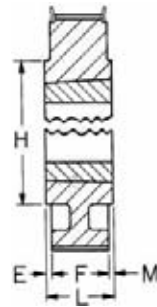


TAPER-LOCK



TAPER-LOCK

TYPE CF



TYPE C

XL037 - 1/5" Pitch (.375" Wide Belt)										F= 0.56"			
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Brushed Bore Range		Dimensions				
							Min.	Max.	E	H	L	M	
32	TL32XL037-1108	113021	.22	2.037	None	TL-1	1/2	1-1/8	-	2.04	0.88	0	
36	TL36XL037-1108	113022	.30	2.292		TL-1	1/2	1-1/8	0.32	2.13	0.88	0	
40	TL40XL037-1108	113023	.31	2.546		TL-1	1/2	1-1/8	0.32	2.25	0.88	0	
42	TL42XL037-1108	113024	.31	2.674		TL-1	1/2	1-1/8	0.32	2.37	0.88	0	
44	TL44XL037-1108	113046	.31	2.801		TL-1	1/2	1-1/8	0.32	2.63	0.88	0	
48	TL48XL037-1108	113047	.38	3.056		TL-1	1/2	1-1/8	0.32	2.88	0.88	0	
60	TL60XL037-1210	113048	.38	3.820		TL-1	1/2	1-1/4	0.44	3.50	1.00	0	
72	TL72XL037-1610	113049	.50	4.584		TL-1	1/2	1-11/16	0.44	4.00	1.00	0	

L050 - 3/8" Pitch (.5" Wide Belt)										F=0.75"			
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Brushed Bore Range		Dimensions				
							Min.	Max.	E	H	L	M	
18	TL18L050-1108	113575	.45	2.149	2.39	CF-1	1/2	1-1/8	.13	1.63	.88	0	
20	TL20L050-1108	113581	.68	2.387	2.63	CF-1	1/2	1-1/8	.13	1.81	.88	0	
21	TL21L050-1108	113399	.80	2.507	2.87	CF-1	1/2	1-1/8	.13	2.00	.88	0	
22	TL22L050-1108	113588	.90	2.626	2.87	CF-1	1/2	1-1/8	.13	2.06	.88	0	
24	TL24L050-1210	113464	1.0	2.865	3.11	CF-1	1/2	1-1/4	.25	2.25	1.00	0	
26	TL26L050-1210	113466	1.2	3.104	3.34	CF-1	1/2	1-1/4	.25	2.56	1.00	0	
28	TL28L050-1210	113468	1.4	3.342	3.58	CF-1	1/2	1-1/4	.25	2.75	1.00	0	
30	TL30L050-1610	113470	1.5	3.581	3.83	CF-1	1/2	1-11/16	.25	2.88	1.00	0	
32	TL32L050-1610	113472	1.9	3.820	4.06	CF-1	1/2	1-11/16	.25	3.06	1.00	0	
40	TL40L050-2012	113478	2.4	4.775	5.02	CF-1	1/2	2-1/8	.50	3.94	1.25	0	
48	TL48L050-2012	113484	3.2	5.730	6.02	CF-1	1/2	2-1/8	.50	3.94	1.25	0	
60	TL60L050-2012	113485	4.9	7.162	None	C-2	1/2	2-1/8	.25	4.38	1.25	.25	
72	TL72L050-2012	113486	6.5	8.594		C-2	1/2	2-1/8	.25	4.38	1.25	.25	
84	TL84L050-2517	113487	7.8	10.027		C-2	1/2	2-11/16	.50	4.38	1.75	.50	

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

‡ See page PT10-8 - PT10-10 for MPB sizes.



SPECIFICATIONS



DYNA-SYNC

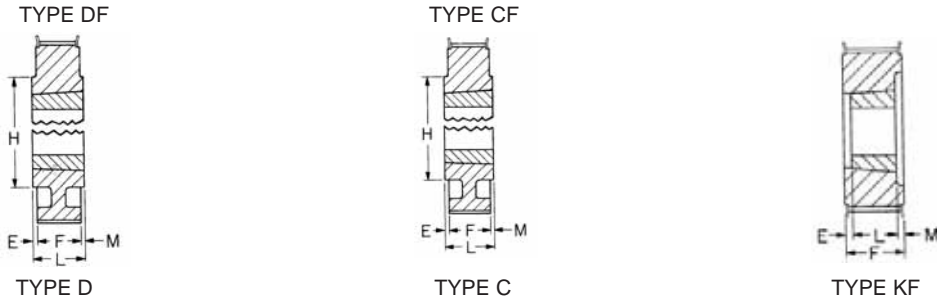
HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

DYNA-SYNC Pulleys - L Pitch



L075 - 3/8" Pitch (.75" Wide Belt)											F=1.00"		
No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bushed		Dimensions				
							Bore Range		E	H	L	M	
							Min.	Max.					
18	TL18L075-1108	113589	.45	2.149	2.39	KF-1	1/2	1-1/8	.06	....	.88	.06
20	TL20L075-1108	113594	.68	2.387	2.63	KF-1	1/2	1-1/8	.06	....	.88	.06
22	TL22L075-1108	113595	.90	2.626	2.87	KF-1	1/2	1-1/8	.06	....	.88	.06
24	TL24L075-1210	113513	1.0	2.865	3.11	KF-1	1/2	1-1/4	0	....	1.00	....
26	TL26L075-1210	113515	1.2	3.104	3.34	KF-1	1/2	1-1/4	0	....	1.00	....
28	TL28L075-1610	113517	1.2	3.342	3.58	KF-1	1/2	1-11/16	0	....	1.00	....
30	TL30L075-1610	113519	1.5	3.581	3.83	KF-1	1/2	1-11/16	0	....	1.00	....
32	TL32L075-1610	113521	1.9	3.820	4.06	KF-1	1/2	1-11/16	0	....	1.00	....
40	TL40L075-2012	113527	2.4	4.775	5.02	CF-1	1/2	2-1/8	.25	3.94	1.25	0	
48	TL48L075-2012	113533	3.2	5.730	6.02	CF-1	1/2	2-1/8	.25	3.94	1.25	0	
60	TL60L075-2012	113534	4.9	7.162	None	C-2	1/2	2-1/8	.13	4.38	1.25	.13	
72	TL72L075-2012	113535	6.5	8.594		C-1	1/2	2-1/8	.13	4.38	1.25	.13	
84	TL84L075-2517	113536	7.8	10.027		C-1	1/2	2-11/16	.25	4.88	1.75	.50	

L100 - 3/8" Pitch (1" Wide Belt)											F=1.25"		
No. of Teeth	Description ◇	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bushed		Dimensions				
							Bore Range		E	H	L	M	
							Min.	Max.					
18	TL18L100-1108	113599	.7	2.149	2.39	KF-1	1/2	1-1/8	.06	...	.87	.31
20	TL20L100-1108	113641	1.0	2.387	2.63	KF-1	1/2	1-1/8	.06	...	.87	.31
22	TL22L100-1108	113669	1.3	2.626	2.87	KF-1	1/2	1-1/8	.06	...	.87	.31
24	TL24L100-1210	113562	1.3	2.865	3.11	KF-1	1/2	1-1/4	.06	...	1	.19	
26	TL26L100-1210	113564	1.7	3.104	3.34	KF-1	1/2	1-1/4	.06	...	1	.19	
28	TL28L100-1610	113566	1.7	3.342	3.58	KF-1	1/2	1-11/16	.11	...	1	.15	
30	TL30L100-1610	113568	2.2	3.581	3.83	KF-1	1/2	1-11/16	.11	...	1	.15	
32	TL32L100-1610	113570	2.7	3.820	4.06	KF-1	1/2	1-11/16	.25	...	1	0	
40	TL40L100-2012	113576	3.6	4.775	5.02	KF-1	1/2	2-1/8	0	...	1.25	....
48	TL48L100-2012	113582	5.1	5.730	6.02	KF-1	1/2	2-1/8	0	...	1.25	....
60	TL60L100-2012	113583	6.0	7.162	None	C-2	1/2	2-1/8	0	4.38	1.25	....
72	TL72L100-2012	113584	8.0	8.594		C-2	1/2	2-1/8	0	4.38	1.25	....
84	TL84L100-2517	113585	9.2	10.027		C-1	1/2	2-11/16	.55	4.88	1.75	....

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

◇ See page PT10-8 - PT10-10 for MPB sizes.

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DYNA-SYNC Pulleys - L, H



† Dash 1 = Block, 2 = Web, 3 = Arm.
Letter "F" indicates pulley is flanged.

+ Available from stock in Min. Plain Bore (MPB) only.
Max. bore is without keyway. (If keyway is used,
reduce max. bore listed by twice the keyway depth.)

◇ See page PT10-9 for additional MPB sizes.

H100 - 1/2" Pitch (1" Wide Belt) (for H075 & H100 Belts) F=1.32"												
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
14	TL14H100-1108	113678	.8	2.228	2.48	KF-1	1/2	1-1/8	.06	....	.88	.42
16	TL16H100-1108	113684	1.3	2.546	2.80	KF-1	1/2	1-1/8	.06	....	.88	.42
18	TL18H100-1210	113605	1.2	2.865	3.11	KF-1	1/2	1-1/4	.06	....	1	.25
20	TL20H100-1210	113608	1.7	3.183	3.44	KF-1	1/2	1-1/4	.11	....	1	.25
22	TL22H100-1610	113611	1.8	3.501	3.75	KF-1	1/2	1-11/16	.11	....	1	.25
24	TL24H100-1610	113642	2.3	3.820	4.02	KF-1	1/2	1-11/16	.11	....	1	.25
26	TL26H100-2012	113615	2.2	4.138	4.39	KF-1	1/2	2-1/8	.06	....	1.25	0
28	TL28H100-2012	113617	2.8	4.456	4.70	KF-1	1/2	2-1/8	.06	....	1.25	0
30	TL30H100-2012	113620	4.2	4.775	5.02	KF-1	1/2	2-1/8	.06	....	1.25	0
32	TL32H100-2517	113623	4.1	5.093	5.33	CF-1	1/2	2-11/16	.44	4.44	1.75	0
40	TL40H100-2517	113629	7.8	6.366	6.58	CF-1	1/2	2-11/16	.44	4.44	1.75	0
48	TL48H100-2517	113635	12.1	7.639	8.02	CF-1	1/2	2-11/16	.44	4.44	1.75	0
60	TL60H100-3020	113636	10.3	9.549	None	C-2	7/8	3-1/4	.34	6.25	2	.34
72	TL72H100-3020	113637	14	11.459		C-1	7/8	3-1/4	.34	6.25	2	.34
84	TL84H100-3020	113638	20	13.369		C-2	7/8	3-1/4	.34	6.25	2	.34
96	TL96H100-3020	113639	27	15.279		C-2	7/8	3-1/4	.34	6.25	2	.34
120	TL120H100-3020	113640	38	19.099		C-3	7/8	3-1/4	0	6.25	2	.59

H150 - 1/2" Pitch (1.5" Wide Belt) F=1.86"												
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
14	TL14H150-1108	113691	1.0	2.228	2.48	KF-1	1/2	1	.47	....	.88	.88
16	TL16H150-1108	113692	1.5	2.546	2.80	KF-1	1/2	1	.47	....	.88	.88
18	TL18H150-1210	113693	1.6	2.865	3.11	KF-1	1/2	1-1/4	.11	....	1	.75
20	TL20H150-1210	113694	2.2	3.183	3.44	KF-1	1/2	1-1/4	.11	....	1	.75
22	TL22H150-1610	113695	2.5	3.501	3.75	KF-1	1/2	1-11/16	.11	....	1	.75
24	TL24H150-2012	113663	2.2	3.820	4.06	KF-1	1/2	2-1/8	.56	....	1.25	0
26	TL26H150-2012	113665	3.2	4.138	4.78	KF-1	1/2	2-1/8	.56	....	1.25	0
28	TL28H150-2012	113667	4.1	4.456	4.70	KF-1	1/2	2-1/8	.56	....	1.25	0
30	TL30H150-2012	113670	5.1	4.775	5.02	KF-1	1/2	2-1/8	.56	....	1.25	0
32	TL32H150-2517	113673	4.6	5.093	5.33	KF-1	1/2	2-11/16	.11	....	1.75	0
40	TL40H150-2517	113679	8.6	6.366	6.58	KF-1	1/2	2-11/16	.11	....	1.75	0
48	TL48H150-2517	113685	13.6	7.639	8.02	AF-2	1/2	2-11/16	0	....	1.75	.06
60	TL60H150-3020	113686	12.3	9.549	None	C-2	7/8	3-1/4	.09	6.25	2	.09
72	TL72H150-3020	113687	17.0	11.459		C-2	7/8	3-1/4	.09	6.25	2	.09
84	TL84H150-3020	113688	21.5	13.369		C-3	7/8	3-1/4	.09	6.25	2	.09
96	TL96H150-3020	113689	31	15.279		C-3	7/8	3-15/16	.09	6.25	2	.09
120	TL120H150-3020	113690	40	19.099		C-3	7/8	3-1/4	.09	6.25	2	.09

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SPECIFICATIONS



DYNA-SYNC

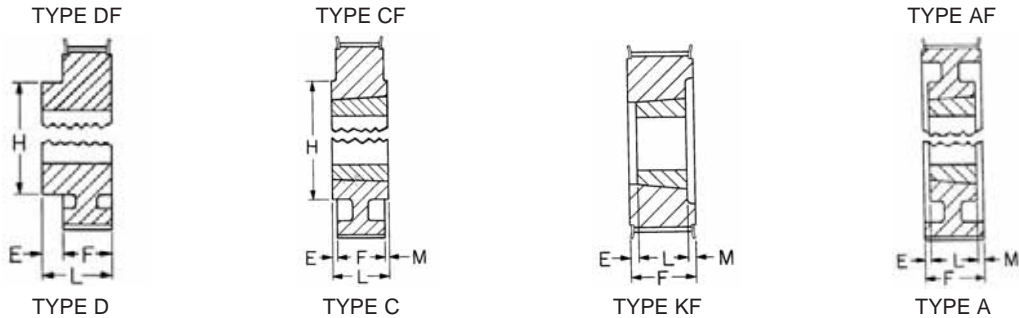
HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

DYNA-SYNC Pulleys - H



H200 - 1/2" Pitch (2" Wide Belt) F=2.34"

No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
16	TL16H200-1108	113072	1.9	2.546	2.80	KF-1	1/2	1-1/8	.75	0	.88	.72
18	TL18H200-1215	113704	1.8	2.865	3.11	KF-1	1/2	1-1/4	.44	0	1.5	.41
20	TL20H200-1215	113707	2.6	3.183	3.44	KF-1	1/2	1-1/4	.42	0	1.5	.42
22	TL22H200-1615	113710	28	3.501	3.75	KF-1	1/2	1-5/8	.42	0	1.5	.42
24	TL24H200-2012	113712	2.6	3.820	4.06	KF-1	1/2	2	.55	0	1.25	.55
26	TL26H200-2012	113714	3.6	4.138	4.78	KF-1	1/2	2	.55	0	1.25	.55
28	TL28H200-2012	113716	5.1	4.456	4.70	KF-1	1/2	2	.55	0	1.25	.55
30	TL30H200-2012	113719	7.0	4.775	5.02	KF-1	1/2	2	1.09	0	1.25	0
32	TL32H200-2517	113722	5.5	5.093	5.33	KF-1	1/2	2-1/2	.59	0	1.75	0
40	TL40H200-2517	113728	9.9	6.366	6.58	KF-1	1/2	2-1/2	.59	0	1.75	0
48	TL48H200-3020	113734	14.3	7.639	8.02	KF-1	7/8	3	.41	0	2	0
60	TL60H200-3020	113735	15.3	9.549	None	A-2	7/8	3	.17	0	2	.17
72	TL72H200-3020	113736	21	11.459		A-2	7/8	3-1/4	0	0	2	.34
84	TL84H200-3020	113737	23	13.369		A-3	7/8	3-1/4	0	0	2	.34
96	TL96H200-3535	113738	34	15.279		C-3	1-3/16	3-15/16	.40	7.0	3.5	.75
120	TL120H200-3020	113739	42	19.099	A-3	7/8	3-1/4	0	0	2	.34	

H300 - 1/2" Pitch (3" Wide Belt) F=3.38"

No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Fig. O.D.	Type †	Bushed Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
16	TL16H300-1108	113073	2.5	2.546	2.80	KF-1	1/2	1-1/8	1.28	0	.87	1.23
18	TL18H300-1215	113752	2.6	2.865	3.11	KF-1	1/2	1-1/4	.94	0	1.5	.94
20	TL20H300-1215	113755	3.9	3.183	3.44	KF-1	1/2	1-1/4	.94	0	1.5	.94
22	TL22H300-1615	113758	4.0	3.501	3.75	KF-1	1/2	1-11/16	.94	0	1.5	.94
24	TL24H300-2012	113760	4.3	3.820	4.06	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
26	TL26H300-2012	113762	5.4	4.138	4.78	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
28	TL28H300-2012	113764	6.8	4.456	4.70	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
30	TL30H300-2012	113767	7.5	4.775	5.02	KF-1	1/2	2-1/8	1.06	0	1.25	1.06
32	TL32H300-2517	113770	7.4	5.093	5.33	KF-1	1/2	2-11/16	.81	0	1.75	.81
40	TL40H300-2517	113776	12.1	6.366	6.58	KF-1	1/2	2-11/16	.81	0	1.75	.81
48	TL48H300-3020	113782	16.3	7.639	8.02	KF-1	7/8	3-1/4	.69	0	2	.69
60	TL60H300-3020	113783	17.3	9.549	None	A-2	7/8	3-1/4	.69	0	2	.69
72	TL72H300-3020	113784	23	11.459		A-2	7/8	3-1/4	.31	0	2	1.06
84	TL84H300-3020	113785	30	13.369		A-3	7/8	3-1/4	.69	0	2	.69
96	TL96H300-3535	113786	38	15.279		C-3	1-3/16	3-15/16	.06	0	3.5	.06
120	TL120H300-3535	113787	51	19.099	C-3	1-3/16	3-15/16	.125	7.0	3.5	0	

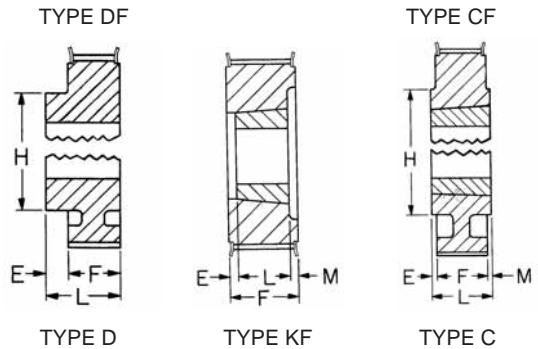
† Dash 1 = Block, 2 = Web, 3 = Arm. Letter "F" indicates pulley is flanged.

◇ See page PT10-8 - PT10-10 for MPB sizes.

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DYNA-SYNC Pulleys - XH



XH200 - 7/8" Pitch (2" Wide Belt)											F=2.56"	
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
18	TL18XH200-2012	113074	12	5.013	5.58	KF-1	1/2	2-1/8	.84	...	1.25	.47
20	TL20XH200-2012	113120	16	5.570	6.11	KF-1	1/2	2-1/8	.84	...	1.25	.47
22	TL22XH200-2517	113804	10.6	6.127	6.59	KF-1	1/2	2-11/16	.81	....	1.75	0
24	TL24XH200-3020	113807	11.3	6.685	7.28	KF-1	7/8	3-1/4	.56	....	2.0	0
26	TL26XH200-3020	113810	13.3	7.241	7.78	KF-1	7/8	3-1/4	.56	....	2.0	0
28	TL28XH200-3535	113813	13.5	7.799	8.27	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
30	TL30XH200-3535	113816	18.5	8.356	9.31	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
32	TL32XH200-3535	113819	21.5	8.913	9.52	CF-1	1-3/16	3-15/16	.94	6.50	3.5	0
40	TL40XH200-4040	113822	37.5	11.141	11.80	CF-1	1-7/16	4-7/16	1.44	8.50	4.0	0
48	TL48XH200-4040	113823	44.5	13.369	None	C-2	1-7/16	4-7/16	.72	8.50	4.0	.72
60	TL60XH200-4040	113824	47	16.711		C-3	1-7/16	4-7/16	.72	8.50	4.0	.72

XH300 - 7/8" Pitch (3" Wide Belt)											F=3.63"	
No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Bore Range		Dimensions			
							Min.	Max.	E	H	L	M
18	TL18XH300-2012	113121	15	5.013	5.58	KF-1	1/2	2-1/8	1.38	...	1.25	1.0
20	TL20XH300-2012	113122	19	5.570	6.11	KF-1	1/2	2-1/8	1.38	...	1.25	1.0
22	TL22XH300-2517	113854	13.6	6.127	6.59	KF-1	1/2	2-11/16	.94	....	1.75	.94
24	TL24XH300-3020	113857	15.3	6.685	7.28	KF-1	7/8	3-1/4	.81	....	2.0	.81
26	TL26XH300-3020	113860	17.3	7.241	7.78	KF-1	7/8	3-1/4	.81	....	2.0	.81
28	TL28XH300-3535	113863	17.3	7.799	8.27	KF-1	1-3/16	3-15/16	.13	....	3.5	....
30	TL30XH300-3535	113866	22.5	8.356	9.31	KF-1	1-3/16	3-15/16	.13	....	3.5	....
32	TL32XH300-3535	113869	26.5	8.913	9.52	KF-1	1-3/16	3-15/16	.13	....	3.5	....
40	TL40XH300-4040	113872	43.5	11.141	11.80	CF-1	1-7/16	4-7/16	.38	7.50	4.0	....
48	TL48XH300-4040	113873	51.5	13.369	None	C-1	1-7/16	4-7/16	.19	8.50	4.0	.19
60	TL60XH300-4040	113874	55.5	16.711		C-3	1-7/16	4-7/16	.19	8.50	4.0	.19

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

XXH Pulley Note: Discontinued Product. Recommend that drive be redesigned to HT100 or HT150. Refer to HT section of this catalog.



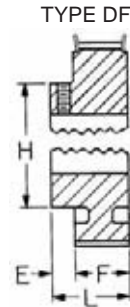
SPECIFICATIONS



DYNA-SYNC Pulleys - XL037



Minimum Plain Bore



TYPE D
Minimum Plain Bore

XL037 -1/5" Pitch (.375" Wide Belt) - MINIMUM PLAIN BORE F= 0.56

No. of Teeth	Description	Part No.	Wt.	Pitch Dia. (P.D.)	Max. Flg. O.D.	Type †	Reborable Bore*		Dimensions		
							St'k.	Max.	E	H	L
10	10XL037-MPB	113400	.03	.637	0.94	DF-1	3/16	3/16	0.25	0.49	0.813
11	11XL037-MPB	113401	.03	.700	0.95	DF-1	3/16	3/16	0.25	0.49	0.813
12	12XL037-MPB	113402	.06	.764	1.01	DF-1	3/16	1/4	0.25	0.50	0.813
14	14XL037-MPB	113403	.06	.891	1.14	DF-1	1/4	1/4	0.25	0.56	0.813
15	15XL037-MPB	113404	.09	.955	1.20	DF-1	1/4	5/16	0.25	0.63	0.813
16	16XL037-MPB	113405	.09	1.019	1.27	DF-1	1/4	3/8	0.25	0.69	0.813
18	18XL037-MPB	113406	.13	1.146	1.39	DF-1	1/4	1/2	0.25	0.81	0.813
20	20XL037-MPB	113407	.19	1.273	1.52	DF-1	1/4	9/16	0.35	0.94	0.88
21	21XL037-MPB	113408	.19	1.337	1.58	DF-1	1/4	9/16	0.35	0.94	0.88
22	22XL037-MPB	113409	.22	1.401	1.64	DF-1	1/4	5/8	0.35	1.00	0.88
24	24XL037-MPB	113410	.25	1.528	1.78	DF-1	1/4	11/16	0.35	1.06	0.91
28	28XL037-MPB	113411	.34	1.783	2.03	DF-1	1/4	13/16	0.35	1.19	0.91
30	30XL037-MPB	113412	.41	1.910	2.16	DF-1	5/16	15/16	0.35	1.38	0.91
32	32XL037-MPB	113413	.22	2.037	None	D-1	5/16	1-3/16	0.44	1.50	1.00
36	36XL037-MPB	113414	.30	2.292		D-1	5/16	1-3/16	0.44	1.50	1.00
40	40XL037-MPB	113415	.31	2.546		D-1	5/16	1-3/16	0.44	1.50	1.00
42	42XL037-MPB	113416	.31	2.674		D-2	5/16	1-3/16	0.44	1.50	1.00
44	44XL037-MPB	113417	.31	2.801		D-2	5/16	1-3/16	0.44	1.50	1.00
48	48XL037-MPB	113418	.38	3.056		D-2	5/16	1-3/16	0.44	1.50	1.00
60	60XL037-MPB	113419	.38	3.820		D-2	3/8	1-3/16	0.44	1.50	1.00
72	72XL037-MPB	113420	.50	4.584		D-2	3/8	1-3/16	0.44	1.50	1.00

† Dash 1 = Block, 2 = Web, 3 = Arm. (See page PT10-3, V-Drives Section) Letter "F" indicates pulley is flanged.

* Max. bore is without keyway. (If keyway is used, reduce max. bore listed by twice the keyway depth.) Standard keyways are listed above. Two hex-socket set screws furnished @ 90° are included in price of pulley.



SPECIFICATIONS



DYNA-SYNC Pulleys - Reborable

No. Teeth	Description	Part No.	Wt.	Diameter		Type	Bore		Dimensions			
				Pitch	Flange		Stock	Max.	H	L	E	
L Pitch - 3/8" Pitch				L050 (.5" Wide Belt)							F=0.75"	
10	10L050-MPB	113450+	0.28	1.194	1.44	DF	3/8	1/2	.81	1.25	0.50	
12	12L050-MPB	113451+	0.3	1.432	1.67	DF	3/8	3/4	1.06	1.25	0.50	
13	13L050-MPB	114441+	0.4	1.552	1.81	DF	3/8	3/4	1.13	1.25	0.50	
14	14L050-MPB	113452+	0.4	1.671	1.92	DF	3/8	7/8	1.13	1.25	0.50	
15	15L050-MPB	114442+	0.6	1.790	2.06	DF	3/8	7/8	1.34	1.25	0.50	
16	16L050-MPB	113453+	0.6	1.910	2.16	DF	1/2	1	1.44	1.25	0.50	
17	17L050-MPB	114301+	0.8	2.029	2.31	DF	1/2	1	1.44	1.25	0.50	
18	18L050-MPB	114302	0.8	2.149	2.38	DF	1/2	1	1.56	1.25	0.50	
19	19L050-MPB	114303	0.9	2.268	2.50	DF	1/2	1	1.69	1.25	0.50	
20	20L050-MPB	114304	1.0	2.387	2.63	DF	1/2	1	1.69	1.25	0.50	
21	21L050-MPB	114305	1.3	2.507	2.73	DF	1/2	1-1/4	2.00	1.25	0.50	
22	22L050-MPB	114306	1.4	2.626	2.88	DF	1/2	1-1/4	2.00	1.25	0.50	
24	24L050-MPB	114307	1.8	2.865	3.13	DF	1/2	1-3/8	2.25	1.25	0.50	
26	26L050-MPB	114308	2.1	3.104	3.38	DF	1/2	1-3/8	2.25	1.25	0.50	
28	28L050-MPB	114309	2.3	3.342	3.63	DF	1/2	1-3/8	2.25	1.25	0.50	
30	30L050-MPB	114310	2.4	3.581	3.81	DF	1/2	1-3/8	2.25	1.25	0.50	
32	32L050-MPB	114311	3.0	3.820	4.06	DF	1/2	1-5/8	2.63	1.25	0.50	
36	36L050-MPB	114443	3.8	4.297	4.69	DF	1/2	2-5/16	3.50	1.25	0.50	
40	40L050-MPB	114444	4.6	4.775	5.00	DF	1/2	2-3/8	3.63	1.25	0.50	
				L075 (.75" Wide Belt)							F=1.00"	
12	12L075-MPB	113500+	0.4	1.432	1.67	DF	3/8	13/16	1.06	1.50	0.50	
13	13L075-MPB	114445+	0.6	1.552	1.81	DF	3/8	3/4	1.13	1.50	0.50	
14	14L075-MPB	113501+	0.5	1.671	1.92	DF	3/8	7/8	1.13	1.50	0.50	
15	15L075-MPB	114446+	0.8	1.790	2.06	DF	1/2	7/8	1.34	1.50	0.50	
16	16L075-MPB	113502+	0.7	1.910	2.16	DF	1/2	1	1.44	1.50	0.50	
17	17L075-MPB	114312+	1.0	2.029	2.31	DF	1/2	1	1.44	1.50	0.50	
18	18L075-MPB	114313	1.0	2.149	2.38	DF	1/2	1	1.56	1.50	0.50	
19	19L075-MPB	114314	1.3	2.268	2.50	DF	1/2	1	1.69	1.50	0.50	
20	20L075-MPB	114315	1.3	2.387	2.63	DF	1/2	1-1/4	1.69	1.50	0.50	
21	21L075-MPB	114316	1.6	2.507	2.73	DF	5/8	1-1/4	2.00	1.50	0.50	
22	22L075-MPB	114317	1.8	2.626	2.88	DF	5/8	1-1/4	2.00	1.50	0.50	
24	24L075-MPB	114318	2.1	2.865	3.13	DF	5/8	1-3/8	2.25	1.50	0.50	
26	26L075-MPB	114319	2.4	3.104	3.38	DF	5/8	1-3/8	2.25	1.50	0.50	
28	28L075-MPB	114320	2.9	3.342	3.63	DF	5/8	1-3/8	2.25	1.50	0.50	
30	30L075-MPB	114321	3.0	3.581	3.81	DF	5/8	1-3/8	2.25	1.50	0.50	
32	32L075-MPB	114322	3.6	3.820	4.06	DF	5/8	1-5/8	2.63	1.50	0.50	
36	36L075-MPB	114447	4.4	4.297	4.69	DF	5/8	2-5/16	3.50	1.50	0.50	
40	40L075-MPB	114448	5.0	4.775	5.00	DF	5/8	2-3/8	3.63	1.50	0.50	
				L100 (1" Wide Belt)							F=1.25"	
13	13L100-MPB	114449+	0.7	1.552	1.81	DF	3/8	3/4	1.13	1.75	0.50	
14	14L100-MPB	113550+	0.6	1.671	1.92	DF	3/8	7/8	1.13	1.75	0.50	
15	15L100-MPB	114450+	1.0	1.790	2.06	DF	1/2	7/8	1.34	1.75	0.50	
16	16L100-MPB	113551+	0.8	1.910	2.16	DF	1/2	1	1.44	1.75	0.50	
17	17L100-MPB	114323+	1.0	2.029	2.31	DF	1/2	1	1.44	1.75	0.50	
18	18L100-MPB	114324	1.2	2.149	2.38	DF	1/2	1	1.56	1.75	0.50	
19	19L100-MPB	114325	1.4	2.268	2.50	DF	1/2	1	1.69	1.75	0.50	
20	20L100-MPB	114326	1.8	2.387	2.63	DF	1/2	1	1.69	1.75	0.50	
21	21L100-MPB	114327	2.0	2.507	2.73	DF	5/8	1-1/4	2.00	1.75	0.50	
22	22L100-MPB	114328	2.1	2.626	2.88	DF	5/8	1-1/4	2.00	1.75	0.50	
24	24L100-MPB	114329	2.5	2.865	3.13	DF	5/8	1-3/8	2.25	1.75	0.50	
26	26L100-MPB	114330	3.0	3.104	3.38	DF	5/8	1-5/8	2.44	1.75	0.50	
28	28L100-MPB	114331	3.6	3.342	3.63	DF	5/8	1-3/4	2.69	1.75	0.50	
30	30L100-MPB	114332	4.1	3.581	3.81	DF	5/8	1-7/8	2.81	1.75	0.50	
32	32L100-MPB	114333	4.8	3.820	4.06	DF	5/8	2	3.13	1.75	0.50	
36	36L100-MPB	114451	5.4	4.297	4.69	DF	5/8	2-5/16	3.50	1.75	0.50	
40	40L100-MPB	114452	6.0	4.775	5.00	DF	5/8	2-5/16	3.63	1.75	0.50	

+ Available from stock in Min. Plain Bore (MPB) only. Max. bore is without keyway.
(If keyway is used, reduce max. bore listed by twice the keyway depth.)

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SPECIFICATIONS



DYNA-SYNC

HT Synchronous Belts

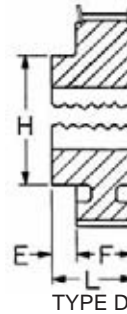
Sprockets

Conveyor Components

Engineering

DYNA-SYNC Pulleys - Reborable

TYPE DF



No. Teeth	Description	Part No.	Wt.	Diameter		Type	Bore		Dimensions			
				Pitch	Flange		Stock	Max.	H	L	E	
H Pitch - 1/2" Pitch				H100 (1" Wide Belt)						F=1.25"		
14	14H100-MPB	114334	1.4	2.228	2.44	DF	5/8	7/8	1.63	1.88	0.63	
16	16H100-MPB	114335	2.0	2.546	2.88	DF	5/8	1-1/8	1.88	2.00	0.75	
17	17H100-MPB	114453	2.3	2.706	3.00	DF	5/8	1-1/4	2.00	2.00	0.75	
18	18H100-MPB	114336	2.8	2.865	3.13	DF	5/8	1-3/8	2.25	2.00	0.75	
19	19H100-MPB	114337	3.1	3.024	3.38	DF	5/8	1-1/2	2.38	2.00	0.75	
20	20H100-MPB	114338	3.6	3.183	3.38	DF	5/8	1-5/8	2.50	2.13	0.88	
21	21H100-MPB	114339	3.9	3.342	3.63	DF	3/4	1-11/16	2.66	2.13	0.88	
22	22H100-MPB	114340	4.5	3.501	3.81	DF	3/4	1-3/4	2.75	2.25	1	
24	24H100-MPB	114341	5.6	3.820	4.06	DF	3/4	1-7/8	3.00	2.25	1	
26	26H100-MPB	114342	7.0	4.138	4.38	DF	3/4	2-1/4	3.38	2.38	1.13	
28	28H100-MPB	114343	8.0	4.456	4.69	DF	3/4	2-5/16	3.50	2.38	1.13	
30	30H100-MPB	114454	9.1	4.775	5.00	DF	3/4	2-3/8	3.63	2.38	1.13	
H150 (1.5" Wide Belt)				H150 (1.5" Wide Belt)						F=1.75"		
14	14H150-MPB	114344	1.8	2.228	2.44	DF	3/4	7/8	1.63	2.38	0.63	
16	16H150-MPB	114345	2.5	2.546	2.88	DF	3/4	1-1/8	1.88	2.50	0.75	
17	17H150-MPB	114455	3.0	2.706	3.00	DF	3/4	1-1/4	2.00	2.50	0.75	
18	18H150-MPB	114346	3.4	2.865	3.13	DF	3/4	1-3/8	2.25	2.50	0.75	
19	19H150-MPB	114347	3.9	3.024	3.38	DF	3/4	1-1/2	2.38	2.50	0.75	
20	20H150-MPB	114348	4.5	3.183	3.38	DF	3/4	1-5/8	2.50	2.63	0.88	
21	21H150-MPB	114349	5.0	3.342	3.63	DF	3/4	1-11/16	2.66	2.63	0.88	
22	22H150-MPB	114350	5.8	3.501	3.81	DF	3/4	1-3/4	2.75	2.75	1	
24	24H150-MPB	114351	6.9	3.820	4.06	DF	3/4	1-7/8	3.00	2.75	1	
26	26H150-MPB	114352	8.5	4.138	4.38	DF	3/4	2-1/4	3.38	2.75	1	
28	28H150-MPB	114353	10.1	4.456	4.69	DF	3/4	2-5/16	3.50	2.88	1.13	
30	30H150-MPB	114456	11.5	4.775	5.00	DF	3/4	2-3/8	3.63	2.88	1.13	
H200 (2" Wide Belt)				H200 (2" Wide Belt)						F=2.28"		
14	14H200-MPB	114354	2.3	2.228	2.44	DF	3/4	7/8	1.63	2.91	0.63	
16	16H200-MPB	114355	3.3	2.546	2.88	DF	3/4	1-1/8	1.88	3.03	0.75	
17	17H200-MPB	114457	3.8	2.706	3.00	DF	3/4	1-1/4	2.00	3.03	0.75	
18	18H200-MPB	114356	4.4	2.865	3.13	DF	3/4	1-3/8	2.25	3.03	0.75	
19	19H200-MPB	114357	5.0	3.024	3.38	DF	3/4	1-1/2	2.38	3.03	0.75	
20	20H200-MPB	114358	5.3	3.183	3.38	DF	3/4	1-5/8	2.50	3.16	0.88	
21	21H200-MPB	114359	5.9	3.342	3.63	DF	1	1-11/16	2.66	3.16	0.88	
22	22H200-MPB	114360	6.9	3.501	3.81	DF	1	1-3/4	2.75	3.28	1	
24	24H200-MPB	114361	8.3	3.820	4.06	DF	1	1-7/8	3.00	3.28	1	
26	26H200-MPB	114362	10.2	4.138	4.38	DF	1	2-1/4	3.38	3.41	1.13	
28	28H200-MPB	114363	11.8	4.456	4.69	DF	1	2-5/16	3.50	3.41	1.13	
30	30H200-MPB	114458	13.5	4.775	5.00	DF	1	2-3/8	3.63	3.41	1.13	
H300 (3" Wide Belt)				H300 (3" Wide Belt)						F=4.06"		
16	16H300-MPB	114364	4.5	2.546	2.88	DF	3/4	1-1/8	1.88	4.06	0.75	
17	17H300-MPB	114459	5.1	2.706	3.00	DF	3/4	1-1/4	2.00	4.06	0.75	
18	18H300-MPB	114365	6.0	2.865	3.13	DF	3/4	1-3/8	2.25	4.06	0.75	
19	19H300-MPB	114366	6.6	3.024	3.38	DF	3/4	1-1/2	2.38	4.06	0.75	
20	20H300-MPB	114367	7.5	3.183	3.38	DF	3/4	1-5/8	2.50	4.19	0.88	
21	21H300-MPB	114368	9.0	3.342	3.63	DF	1	1-11/16	2.66	4.19	0.88	
22	22H300-MPB	114369	10.9	3.501	3.81	DF	1	1-3/4	2.75	4.31	1	
24	24H300-MPB	114370	12.0	3.820	4.06	DF	1-1/8	1-7/8	3.00	4.31	1	
26	26H300-MPB	114371	13.4	4.138	4.38	DF	1-1/8	2-1/4	3.38	4.44	1.13	
28	28H300-MPB	114372	15.6	4.456	4.69	DF	1-1/8	2-5/16	3.50	4.44	1.13	
30	30H300-MPB	114460	18.0	4.775	5.00	DF	1-1/8	2-3/8	3.63	4.44	1.13	

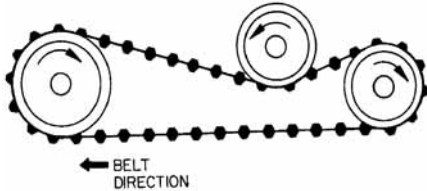
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Dual DYNA-SYNC Belts



For Serpentine Drives



DXL Series Dual DYNA-SYNC Belts					DL Series Dual DYNA-SYNC Belts						
Belt Lgth.	1/5" Pitch (XL)				Belt Lgth.	3/8" Pitch (L)					
	XL025 (1/4" Wide)		XL037 (3/8" Wide)			L050 (1/2" Wide)		L075 (3/4" Wide)		L100 (1" Wide)	
	Belt No.	Part No.	Belt No.	Part No.		Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.
12.0	D120XL025	110132	D120XL037	110133	15.0	D150L050	110187	D150L075	110158	D150L100	110189
13.0	D130XL025	110134	D130XL037	110135	18.7	D187L050	110190	D187L075	110191	D187L100	110192
14.0	D140XL025	110136	D140XL037	110137	21.0	D210L050	110193	D210L075	110194	D210L100	110195
15.0	D150XL025	110138	D150XL037	110139	22.5	D225L050	110196	D225L075	110197	D255L100	110198
16.0	D160XL025	110140	D160XL037	110141	24.0	D240L050	110199	D240L075	110200	D240L100	110201
17.0	D170XL025	110142	D170XL037	110143	25.5	D255L050	110202	D255L075	110203	D255L100	110204
18.0	D180XL025	110144	D180XL037	110145	27.0	D270L050	110205	D270L075	110206	D270L100	110207
19.0	D190XL025	110146	D190XL037	110147	28.5	D285L050	110208	D285L075	110209	D285L100	110210
20.0	D200XL025	110148	D200XL037	110149	30.0	D300L050	110211	D300L075	110212	D300L100	110213
21.0	D210XL025	110150	D210XL037	110151	32.2	D322L050	110214	D322L075	110215	D322L100	110216
22.0	D220XL025	110152	D220XL037	110153	34.5	D345L050	110217	D345L075	110218	D345L100	110219
23.0	D230XL025	110154	D230XL037	110155	36.7	D367L050	110220	D367L075	110221	D367L100	110222
24.0	D240XL025	110156	D240XL037	110157	39.0	D390L050	110223	D390L075	110224	D390L100	110225
25.0	D250XL025	110158	D250XL037	110159	42.0	D420L050	110226	D420L075	110227	D420L100	110228
26.0	D260XL025	110160	D260XL037	110161	45.0	D450L050	110229	D450L075	110230	D450L100	110231
28.0	D280XL025	110162	D280XL037	110163	48.0	D480L050	110232	D460L075	110233	D480L100	110234
29.0	D290XL025	110164	D290XL037	110165	51.0	D510L050	110235	D510L075	110236	D510L100	110237
30.0	D300XL025	110166	D300XL037	110167	54.0	D540L050	110238	D540L075	110239	D540L100	110240
31.0	D310XL025	110168	D310XL037	110169	60.0	D600L050	110241	D600L075	110242	D600L100	110243
33.0	D330XL025	110170	D330XL037	110171	66.0	D660L050	110244	D660L075	110245	D660L100	110246
	Avg. Wt. .03Lb.		Avg. Wt. 0.5Lb.			Avg. Wt. .14Lb.		Avg. Wt. .21Lb.		Avg. Wt. .26Lb.	

DH Series Dual DYNA-SYNC Belts

Belt Lgth.	1/2" Pitch (H)									
	H075 (3/4" Wide)		H100 (1" Wide)		H150 (1-1/2" Wide)		H200(2" Wide)		H300 (3" Wide)	
	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.	Belt No.	Part No.
24.0	D240H075	110247	D240H100	110248	D240H150	110249	D240H200	110250	D240H300	110251
27.0	D270H075	110252	D270H100	110253	D270H150	110254	D270H200	110255	D270H300	110256
30.0	D300H075	110257	D300H100	110258	D300H150	110259	D300H200	110260	D300H300	110261
33.0	D330H075	110262	D330H100	110263	D330H150	110264	D330H200	110265	D330H300	110266
36.0	D360H075	110267	D360H100	110268	D360H150	110269	D360H200	110270	D360H300	110271
39.0	D390H075	110272	D390H100	110273	D390H150	110274	D390H200	110275	D390H300	110276
42.0	D420H075	110277	D420H100	110278	D420H150	110279	D420H200	110280	D420H300	110281
45.0	D450H075	110282	D450H100	110283	D450H150	110284	D450H200	110285	D450H300	110286
48.0	D480H075	110287	D480H100	110288	D480H150	110289	D480H200	110290	D480H300	110291
51.0	D510H075	110292	D510H100	110293	D510H150	110294	D510H200	110295	D510H300	110296
54.0	D540H075	110297	D540H100	110298	D540H150	110299	D540H200	110300	D540H300	110301
57.0	D570H075	110302	D570H100	110303	D570H150	110304	D570H200	110305	D570H300	110306
60.0	D600H075	110307	D600H100	110308	D600H150	110309	D600H200	110310	D600H300	110311
63.0	D630H075	110312	D630H100	110313	D630H150	110314	D630H200	110315	D630H300	110316
66.0	D660H075	110317	D660H100	110318	D660H150	110319	D660H200	110320	D660H300	110321
70.0	D700H075	110322	D700H100	110323	D700H150	110324	D700H200	110325	D700H300	110326
75.0	D750H075	110327	D750H100	110328	D750H150	110329	D750H200	110330	D750H300	110331
80.0	D800H075	110332	D800H100	110333	D800H150	110334	D800H200	110335	D800H300	110336
85.0	D850H075	110337	D850H100	110338	D850H150	110339	D850H200	110340	D850H300	110341
90.0	D900H075	110342	D900H100	110343	D900H150	110344	D900H200	110345	D900H300	110346
100.0	D1000H075	110347	D1000H100	110348	D1000H150	110349	D1000H200	110350	D1000H300	110351
110.0	D1100H075	110352	D1100H100	110353	D1100H150	110354	D1100H200	110355	D1100H300	110356
125.0	D1250H075	110357	D1250H100	110358	D1250H150	110359	D1250H200	110360	D1250H300	110361
140.0	D1400H075	110362	D1400H100	110363	D1400H150	110364	D1400H200	110365	D1400H300	110366
170.0	D1700H075	110367	D1700H100	110368	D1700H150	110369	D1700H200	110370	D1700H300	110371
	Avg. Wt. .35Lb.		Avg. Wt. .47Lb.		Avg. Wt. .70Lb.		Avg. Wt. .94Lb.		Avg. Wt. 1.41Lb.	

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SPECIFICATIONS



DYNA-SYNC

DYNA-SYNC Belts

XL Series DYNA-SYNC Belts



HT Synchronous Belts

Belt Length	1/5" Pitch (XL)					
	XL025 (1/4" Wide)			XL037 (3/8" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
6.0	60XL025	465335	...	60XL037	464521	...
7.0	70XL025	464501	...	70XL037	464522	...
8.0	80XL025	464502	...	80XL037	464523	...
9.0	90XL025	464503	...	90XL037	464524	.01
10.0	100XL025	464504	...	100XL037	464525	.01
11.0	110XL025	464505	...	110XL037	464526	.01
12.0	120XL025	464506	...	120XL037	464527	.01
13.0	130XL025	464507	.01	130XL037	464528	.01
14.0	140XL025	464508	.01	140XL037	464529	.01
15.0	150XL025	464509	.01	150XL037	464530	.01
16.0	160XL025	464510	.01	160XL037	464531	.01
17.0	170XL025	464511	.01	170XL037	464532	.01
18.0	180XL025	464512	.01	180XL037	464533	.02
19.0	190XL025	464513	.01	190XL037	464534	.02
20.0	200XL025	464514	.01	200XL037	464535	.02
21.0	210XL025	464515	.01	210XL037	464536	.02
22.0	220XL025	464516	.01	220XL037	464537	.02
23.0	230XL025	464517	.01	230XL037	464538	.02
24.0	240XL025	464518	.01	240XL037	464539	.02
25.0	250XL025	464519	.01	250XL037	464540	.02
26.0	260XL025	464520	.02	260XL037	464541	.02

Sprockets

L Series DYNA-SYNC Belts

Belt Length	3/8" Pitch (L)								
	L050 (1/2" Wide)			L075 (3/4" Wide)			L100 (1" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
12.4	124L050	464542	.03	124L075	464562	.05	124L100	464582	.06
15.0	150L050	464543	.04	150L075	464563	.06	150L100	464583	.08
18.7	187L050	464544	.05	187L075	464564	.07	187L100	464534	.10
21.0	210L050	464545	.05	210L075	464565	.08	210L100	464585	.09
22.5	225L050	464546	.06	225L075	464566	.09	225L100	464586	.11
24.0	240L050	464547	.06	240L075	464567	.09	240L100	464587	.11
25.5	255L050	464548	.06	255L075	464568	.10	255L100	464588	.13
27.0	270L050	464549	.07	270L075	464569	.10	270L100	464589	.14
28.5	285L050	464550	.07	285L075	464570	.11	285L100	464590	.14
30.0	300L050	464551	.08	300L075	464571	.11	300L100	464591	.15
32.2	322L050	464552	.08	322L075	464572	.12	322L100	464592	.16
34.5	345L050	464553	.09	345L075	464573	.13	345L100	464593	.17
36.7	367L050	464554	.09	367L075	464574	.14	367L100	464594	.19
39.0	390L050	464555	.10	390L075	464575	.15	390L100	464595	.20
42.0	420L050	464556	.11	420L075	464576	.16	420L100	464596	.21
45.0	450L050	464557	.11	450L075	464577	.17	450L100	464597	.23
48.0	480L050	464558	.12	480L075	464578	.18	480L100	464598	.24
51.0	510L050	464559	.13	510L075	464579	.19	510L100	464599	.26
54.0	540L050	464560	.14	540L075	464580	.21	540L100	464600	.27
60.0	600L050	464561	.15	600L075	464581	.23	600L100	464601	.30

Conveyor Components

Engineering

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SPECIFICATIONS



DYNA-SYNC Belts

H Series DYNA-SYNC Belts

Belt Length	1/2" Pitch (H)														
	H075 (3/4" Wide)			H100 (1" Wide)			H150 (1-1/2" Wide)			H200 (2" Wide)			H300 (3" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
24.0	240H075	464602	.11	240H100	464621	.14	240H150	464645	.22	240H200	464772	.29	240H300	464778	.43
27.0	270H075	464603	.12	270H100	464622	.16	270H150	464646	.24	270H200	464773	.33	270H300	464779	.49
30.0	300H075	464604	.14	300H100	464623	.18	300H150	464647	.27	300H200	464774	.36	300H300	464780	.54
33.0	330H075	464605	.14	330H100	464624	.20	330H150	464648	.30	330H200	464775	.40	330H300	464781	.60
36.0	360H075	464606	.15	360H100	464625	.22	360H150	464649	.33	360H200	464664	.43	360H300	464736	.65
39.0	390H075	464607	.18	390H100	464626	.24	390H150	464650	.35	390H200	464665	.47	390H300	464737	.71
42.0	420H075	464608	.19	420H100	464627	.25	420H150	464651	.38	420H200	464666	.51	420H300	464738	.76
45.0	450H075	464609	.20	450H100	464628	.27	450H150	464652	.41	450H200	464667	.54	450H300	464739	.81
48.0	480H075	464610	.23	480H100	464629	.31	480H150	464653	.46	480H200	464668	.62	480H300	464740	.92
51.0	510H075	464611	.23	510H100	464630	.31	510H150	464654	.46	510H200	464669	.62	510H300	464741	.92
54.0	540H075	464612	.24	540H100	464631	.33	540H150	464655	.49	540H200	464670	.65	540H300	464683	.98
57.0	570H075	464613	.26	570H100	464632	.34	570H150	464656	.52	570H200	464671	.69	570H300	464684	1.03
60.0	600H075	464614	.27	600H100	464633	.36	600H150	464657	.54	600H200	464672	.72	600H300	464685	1.09
63.0	630H075	464615	.29	630H100	464634	.38	630H150	464658	.57	630H200	464673	.76	630H300	464686	1.14
66.0	660H075	464616	.30	660H100	464635	.40	660H150	464659	.60	660H200	464674	.80	660H300	464687	1.20
70.0	700H075	464617	.32	700H100	464636	.42	700H150	464660	.63	700H200	464675	.85	700H300	464688	1.27
75.0	750H075	464618	.34	750H100	464637	.45	750H150	464661	.68	750H200	464676	.91	750H300	464689	1.36
80.0	800H075	464619	.36	800H100	464638	.48	800H150	464662	.72	800H200	464677	.97	800H300	464742	1.45
85.0	850H075	464620	.38	850H100	464639	.51	850H150	464663	.77	850H200	464678	1.03	850H300	464743	1.54
90.0	900H075	464759	.41	900H100	464640	.54	900H150	464766	.82	900H200	464679	1.09	900H300	464744	1.63
100.0	1000H075	464760	.45	1000H100	464641	.60	1000H150	464767	.91	1000H200	464680	1.21	1000H300	464745	1.81
110.0	1100H075	464761	.50	1100H100	464642	.66	1100H150	464768	1.00	1100H200	464681	1.33	1100H300	464746	1.99
125.0	1250H075	464762	.57	1250H100	464643	.75	1250H150	464769	1.13	1250H200	464682	1.51	1250H300	464747	2.26
140.0	1400H075	464763	.63	1400H100	464644	.85	1400H150	464770	1.27	1400H200	464776	1.69	1400H300	464748	2.54
170.0	1700H075	464764	.77	1700H100	464765	1.03	1700H150	464771	1.54	1700H200	464777	2.05	1700H300	464749	3.08

XH Series DYNA-SYNC Belts

Belt Length	7/8" Pitch (XH)								
	XH200 (2" Wide)			XH300 (3" Wide)			XH400 (4" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
50.7	507XH200	464690	1.77	507XH300	464702	2.66	507XH400	464750	3.54
56.0	560XH200	464691	1.95	560XH300	464703	2.93	560XH400	464751	3.91
63.0	630XH200	464692	2.20	630XH300	464704	3.30	630XH400	464752	4.40
70.0	700XH200	464693	2.33	700XH300	464705	3.49	700XH400	464753	4.65
77.0	770XH200	464694	2.69	770XH300	464706	3.49	770XH400	464754	4.65
84.0	840XH200	464695	2.79	840XH300	464707	4.19	840XH400	464755	5.58
98.0	980XH200	464696	3.42	980XH300	464708	5.13	980XH400	464756	6.84
112.0	1120XH200	464697	3.72	1120XH300	464709	5.58	1120XH400	464757	7.45
126.0	1260XH200	464698	4.19	1260XH300	464710	6.28	1260XH400	464758	8.38
140.0	1400XH200	464699	4.65	1400XH300	464711	6.98	1400XH400	464782	9.31
154.0	1540XH200	464700	5.12	1540XH300	464712	7.68	1540XH400	464783	10.2
175.0	1750XH200	464701	5.82	1750XH300	464713	8.73	1750XH400	464784	10.6

XXH Series DYNA-SYNC Belts

Belt Length	1-1/4" Pitch (XXH)											
	XXH200 (2" Wide)			XXH300 (3" Wide)			XXH400 (4" Wide)			XXH500 (5" Wide)		
	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.	Belt No.	Part No.	Wt.
70.0	700XXH200	465301	3.23	700XXH300	465302	4.85	700XXH400	465303	6.47	700XXH500	465304	8.09
80.0	800XXH200	465305	3.70	800XXH300	465306	5.54	800XXH400	465307	7.39	800XXH500	465308	9.24
90.0	900XXH200	465309	4.38	900XXH300	465310	6.58	900XXH400	465311	8.77	900XXH500	465312	11.0
100.0	1000XXH200	465313	4.87	1000XXH300	465314	7.31	1000XXH400	465315	9.74	1000XXH500	465316	12.2
120.0	1200XXH200	465337	5.54	1200XXH300	465317	8.32	1200XXH400	465318	11.1	1200XXH500	465319	13.9
140.0	1400XXH200	465323	6.47	1400XXH300	465320	9.70	1400XXH400	465321	12.9	1400XXH500	465322	16.2
160.0	1600XXH200	465324	7.39	1600XXH300	465325	11.1	1600XXH400	465326	14.8	1600XXH500	465327	18.5
180.0	1800XXH200	465338	8.32	1800XXH300	465329	12.5	1800XXH400	465330	16.6	1800XXH500	465331	20.8

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SELECTION



DYNA-SYNC Drives

USING STANDARD MOTOR SPEEDS

Step 1—Determine Service Factor from steps on page PT10-16.

Step 2—Compute Design HP. Multiply normal running HP required or nameplate rating by service factor obtained in Step 1.

Step 3—Choose Belt Section. Using Table 1, read up from design HP figure obtained in Step 2 and over from the RPM of faster shaft. This intersection indicates belt section.

Step 4—Select the Drive, a). Using the belt section from Step 3, refer to Selection Tables beginning on page PT10-18. **b).** Under appropriate standard full-load motor RPM, find the driven RPM nearest to the desired speed. Trace right to columns headed "Pulley Combination." If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c).** On

same line trace right to the figure nearest the desired center distance and at top of column note belt number. **d).** Trace back on same line to appropriate column under heading "HP for a 1" Belt..." Divide the design HP obtained in Step 2 by the HP thus found in table. (Divide this value by Teeth in Mesh (T.I.M.) factor when applicable.) The result is the Belt Width Factor. Refer to table below right hand selection table to determine belt width required. If width shown is not stock go to next stock width listed. Add belt code, from table, to belt number found in Step 4c. (If wider stock belt is not shown in table, redesign drive to next larger pitch.) To check drive calculation: HP for a 1" Wide Belt x Belt Width factor x Teeth in Mesh factor = Actual HP rating of the drive. If actual rating is equal to or greater than Design HP, selection is O.K.

NOTE: Good practice dictates that shaft and bushing system (or alternate shaft mounting method) be verified for adequate rating.

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DYNA-SYNC Drives

USING STANDARD MOTOR SPEEDS

EXAMPLE OF SELECTION

Select a drive for a 3 cylinder reciprocating compressor to run 8 hours a day at about 270 RPM and to be driven by a 5 HP, 1160 RPM Design B squirrel cage motor. Centers are about 25".

Step 1—Service Factor from page PT10-16 is 2.2.

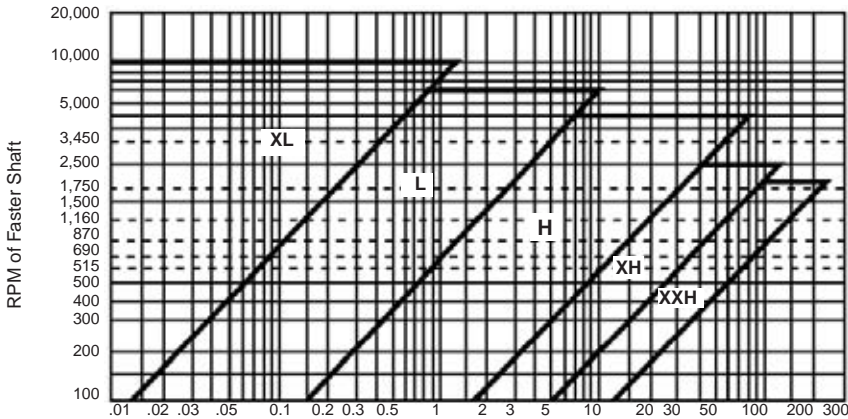
Step 2—Design HP = 5 x 2.2 = 11 HP.

Step 3—An "H" Cross Section is shown in Table 1 when reading to the right of 1160 RPM of faster shaft and up from 11 design HP.

Step 4—The H-Section drive tables begin on page PT10-30. On page PT10-34, the nearest driven speed for a 1160 RPM motor is 271 RPM. Two possible pulley

combinations are listed. The 28H driver/120H driven is preferred. On the same line the nearest center distance to 25" is 25.45". Note the 900 H belt at top of column. Tracing back on the same line, under 1160 RPM, the "HP for a 1" Belt" is 5.68. 11 design HP 5.68 = 1.937 Belt Width Factor. Belt Width Table indicates a 2" wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL28H200 DYNA-SYNC Pulley, (1) 2012 Taper-Lock (1) TL120H200 pulley, (1) TAPER-LOCK 3020 bushing, (1) 900H200 DYNA-SYNC Belt. To facilitate delivery, order by part numbers listed in Pulley, Bushing and Belt sections of this catalog.

Table 1 – Synchronous Cross Section Selection Chart





Service Factor

To determine the service factor for a DYNA-SYNC drive follow the three steps below.

Step 1. Determine the class of Driver from Table 2 below.

Step 2. Use Class of Driver and Type of Application in Table 4 at right to find the tentative service factor.

Step 3. Add the Additional Service Factor, when applicable, from Table 3 at bottom of page to the tentative service factor from Step 2 to determine the service factor for the application.

Table 2 – Class of Driver

Driver	Class I	Class II	Class III
A-C Electric Motors, Single Phase			All
Squirrel Cage, NEMA Design A, 3500 RPM	40 HP up	30 HP or less	
1750 RPM	100 HP up	5 to 75 HP	3 HP or less
1160 RPM	15 HP up	10 HP or less	
870 RPM	5 HP up	3 HP or less	
NEMA Design B, 3500 RPM		5 HP up	3 HP or less
1750 RPM		5 HP up	3 HP or less
1160 RPM		5 HP up	3 HP or less
870 RPM		2 HP up	1-1/2 HP or less
NEMA Design C, 1750 RPM		15 HP up	10 HP or less
1160 RPM		7-1/2 HP up	5 HP or less
870 RPM		All	
NEMA Design D, NEMA Design F	All		All
Wound Rotor,			
1750 RPM		20 HP	15 HP or less
1160 RPM		15 HP	10 HP or less
870 RPM		7-1/2 HP	5 HP or less
Synchronous		Norm. Torque	High Torque
D-C Electric Motors	Shunt	Compound	Series
Engines-Int. Comb	8 Cyl. up	6 Cyl	4 Cyl. or less
Hydraulic Motors			All
Line Shafts			All

Table 3 – Additional Service Factors†

Condition	Additional Factor
24 hour continuous operation	0.2
Use of an idler	0.2
Intermittent or seasonal operation	◇
Speed up drive:	
1 to 1.24 ratio	0.0
1.25 to 1.74 ratio	0.1
1.75 to 2.49 ratio	0.2
2.50 to 3.49 ratio	0.3
Over 3.49 ratio	0.4

† Additional service factors other than listed here are required for unusual condition such as torque reversal, heavy shock, when current to motor is reversed to either stop the motor rapidly or to run it in opposite direction, or when a brake is to be used. For such applications consult factory.

◇ Subtract 0.2 from tentative service factor.

Table 4 – Service Factors*

Application	Class		
	I	II	III
AGITATORS, MIXERS (Paddle or Propeller)			
Liquid	1.4	1.6	1.8
Semi-liquid	1.5	1.7	1.9
BAKERY MACHINERY DOUGH MIXERS	1.4	1.6	1.8
BRICK AND CLAY MACHINERY			
Augers, Mixers, Granulators	1.5	1.7	1.9
Pug Mills	1.8	2.0	2.2
CENTRIFUGES	1.8	1.9	...
COMPRESSORS			
Reciprocating	2.0	2.2	2.4
Centrifugal	1.8	1.7	1.8
CONVEYORS			
Light-Package Belt, oven	1.3	1.5	1.7
Belt, Ore, Coal, Sand	1.8	1.7	1.8
Apron, Bucket, Elevator, Pan	1.7	1.8	1.9
Flight, Screw	1.7	1.9	2.0
FANS, BLOWERS			
Centrifugal, Induced Draft Exhausters	1.8	1.8	2.0
Propeller, Mine fans, Positive Blowers	1.8	2.0	2.2
GENERATORS AND EXCITERS	1.6	1.8	2.0
HAMMER MILLS	1.7	1.9	2.1
LAUNDRY MACHINERY			
General	1.5	1.6	1.7
Extractors, Washers	1.6	1.8	2.0
LINE SHAFTS	1.5	1.7	1.9
MACHINE TOOLS			
Drill Presses, Lathes, Screw Machines	1.4	1.6	1.8
Boring Mills, Grinders	1.5	1.7	1.9
Milling Machines, Shapers	1.5	1.7	1.9
MILLS			
Ball, Rod, Pebble, etc. . . . .	...	2.2	2.5
PAPER MACHINERY			
Agitators, Calenders, Dryers	1.4	1.6	1.8
Beaters, Jordans, Nash Pumps, Pulpers	1.7	1.9	2.1
PRINTING MACHINERY			
Presses: Newspaper, Rotary, Embossing, Flat Bed, Magazine; Linotype Machines; Cutters; Folders	1.4	1.6	1.8
PUMPS			
Centrifugal, Gear, Rotary, Pipeline	1.5	1.7	1.9
Reciprocating	2.0	2.2	2.4
RUBBER PLANT MACHINERY	1.6	1.8	2.0
SAW MILL MACHINERY	1.6	1.8	2.0
SCREENS			
Vibrating (Shakers)	1.5	1.7	...
Drum, Conical	1.4	1.5	...
TEXTILE MACHINERY			
Looms, Spinning Frames, Twisters	1.6	1.8	2.0
Wrappers, Reels	1.5	1.7	...
WOODWORKING MACHINERY			
Lathes, Band Saws	1.3	1.4	...
Jointers, Circular Saws, Planers	1.4	1.6	...



DYNA-SYNC Drives

FOR SPEEDS OTHER THAN STANDARD MOTOR SPEEDS AND SPEED-UP DRIVES

For Speeds Other than Standard Motor Speeds:

Step 1—Calculate Speed Ratio = $\frac{\text{Driver RPM}}{\text{Driven RPM}}$

Step 2—Determine Service Factor from steps on page PT10-16.

Step 3—Calculate Design HP. Multiply normal running HP required or nameplate rating by service factor obtained in Step 2.

Step 4—Using Table 1 on page PT10-15 read up from design HP obtained in Step 3 and over from RPM of faster shaft. This intersection indicates belt section.

Step 5—Select the Drive. a.) Using the belt section obtained in Step 4, refer to Selection Tables beginning on PT10-18. **b.)** Read down ratio column to the value nearest to one calculated in Step 1. Trace right to columns headed "Pulley Combinations." If more than one is listed, the combination with the largest pulleys usually will offer the best belt life. (Note that one pulley must be flanged on all drives. If center distance exceeds 8 times P.D. of small pulley or shafts are vertical or inclined, both must be flanged.) **c.)** On the same line trace right to figure nearest the desired center distance and at top of column note belt number. **d.)** Now go to the **HP Table** for the appropriate belt section. Reading to the right of the speed of the faster pulley and down from the pulley size, the HP figure for a 1" belt will appear. Divide the design HP from Step 3 by the HP thus found in table. (Divide this value by Teeth in Mesh factor, when applicable.) The result is the Belt Width Factor. Refer to table below the HP Table to determine belt width factor required. If width shown is not in stock go to next stock width listed. Add belt code, from table, to belt number found in Step 5c. (If wider stock belt is not shown in table, redesign drive to next larger pitch).

EXAMPLE OF SELECTION

A printing machine embossing roll runs at 426 RPM, powered from an 800 RPM line shaft. The roll required 7 HP. Machine runs 8-10 hrs. a day. Center distance is approx. 20".

Step 1—Speed Ratio = $\frac{800}{426} = 1.88$

Step 2—Service Factor = 1.8

Step 3—Design HP = 7 x 1.8 = 12.6

Step 4—Belt Selection from Table 1 = H

Step 5—The H Section **Drive Tables** begin on page PT10-30. The ratio of 1.88 obtained in Step 1 is found on page PT10-32. Two pulley combinations are listed. The 32H driver /60H driven is preferred. On the same line the nearest center distance to 20" is 19.88. Note the 630H belt at top of column. Refer to H section **HP Tables** on page PT10-42. Opposite 800 RPM of faster shaft and under 32H pulley, the HP 4.50 = 2.8. This is the belt width factor. Referring to the H belt width table a 3" wide belt is stock. Add the 300 Code Width to the pulley and belt numbers and order the following:

(1) TL32H300 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK bushing (Check to see if bushing will fit equipment shafts).

(1) TL60H300 Pulley.

(1) 3020 bushing

(1) 630H300 DYNA-SYNC Belt.

To facilitate delivery, use part numbers listed in Pulley, Bushing and Belt sections of this catalog.

Example of a Speed-Up Drive

Select a drive for a continuous duty liquid agitator to run at about 2000 RPM and to be driven by a 10 HP, 1750 RPM squirrel cage motor Centers are about 10".

Step 1—Speed ratio is $2000 \div 1750 = 1.14$.

Step 2—Service factor from page PT10-3 is 1.8

Step 3—Design HP = $10 \times 1.8 = 18$ HP.

Step 4—An "H" Cross Section is shown in Table 1 when reading to the right of 2000 RPM and up from 18 design HP.

Step 5—Speed ratio calculated in Step 1 appears in Selection Table on page PT10-30. Two possible pulley combinations are listed. The 28H driver/32H driven is preferred. In a Speed-Up Drive, the 28H becomes the driven, the 32H, the driver. On the same line the nearest center distance to 10" is 10.5. Note the 360H belt at top of column. Referring to HP table on page PT10-42, the rating for a 1" wide belt is shown as 9.60 for a 28H pulley at 2000 RPM. 18 design HP $\div 9.601.875$ Belt Width Factor Belt Width Table indicates a 2" wide belt is required. Add code number 200 to belt and pulley number and order the following: (1) TL32H200 DYNA-SYNC Pulley, (1) 2517 TAPER-LOCK Bushing. (Check to see if bushings will fit equipment shafts). (1) TL28H200 Pulley, (1) 2012 bushing (with 2, max. bore). (1) 360H200 DYNA-SYNC belt.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

XL Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL	
3500	1750	1160	1.00	30XL	1.910	30XL	1.910	2.11	1.07	.71	....	....	....	....	2.50
3500	1750	1160	1.00	28XL	1.783	28XL	1.783	1.98	1.00	.66	....	....	....	2.20	2.70
3500	1750	1160	1.00	24XL	1.528	24XL	1.528	1.71	.86	.56	....	....	....	2.10	2.60
3500	1750	1160	1.00	22XL	1.401	22XL	1.401	1.57	.79	.52	....	....	1.80	2.30	2.80
3500	1750	1160	1.00	21XL	1.337	21XL	1.337	1.49	.75	.50	....	....	1.90	2.40	2.90
3500	1750	1160	1.00	20XL	1.273	20XL	1.273	1.42	.72	.46	....	....	2.00	2.50	3.00
3500	1750	1160	1.00	18XL	1.146	18XL	1.146	1.28	.64	.42	....	1.70	2.20	2.70	3.20
3500	1750	1160	1.00	16XL	1.019	16XL	1.019	1.15	.58	.38	1.40	1.90	2.40	2.90	3.40	
3500	1750	1160	1.00	15XL	.955	15XL	.955	1.07	.53	.36	1.50	2.00	2.50	3.00	3.50	
3500	1750	1160	1.00	14XL	.891	14XL	.891	1.00	.50	.33	1.60	2.10	2.60	3.10	3.60	
3500	1750	1160	1.00	12XL	.764	12XL	.764	.86	.43	.28	1.80	2.30	2.80	3.30	3.80	
3500	1750	1160	1.00	11XL	.700	11XL	.700	.79	.39	.26	1.90†	2.40†	2.90†	3.40†	3.90†	
3341	1667	1105	1.05	21XL	1.337	22XL	1.401	1.49	.75	.50	....	....	1.85	2.35	2.85
3333	1667	1105	1.05	20XL	1.273	21XL	1.337	1.42	.72	.46	....	....	1.95	2.45	2.95
3281	1641	1088	1.07	30XL	1.910	32XL	2.037	2.11	1.07	.71	....	....	....	....	2.39
3281	1641	1088	1.07	15XL	.955	16XL	1.019	1.07	.53	.36	1.45	1.95	2.45	2.95	3.45	
3267	1634	1083	1.07	28XL	1.783	30XL	1.910	1.98	1.00	.66	....	....	....	2.09	2.59
3267	1634	1083	1.07	14XL	.891	15XL	.955	1.00	.50	.33	1.55	2.05	2.55	3.05	3.55	
3208	1604	1063	1.09	22XL	1.401	24XL	1.528	1.57	.79	.52	....	....	....	2.19	2.69
3208	1604	1063	1.09	11XL	.700	12XL	.764	.79	.39	.26	1.85†	2.35†	2.85†	3.35†	3.85†	
3182	1591	1055	1.10	20XL	1.273	22XL	1.401	1.42	.72	.46	....	....	1.89	2.39	2.89
3150	1575	1044	1.11	18XL	1.146	20XL	1.273	1.28	.64	.42	....	1.59	2.09	2.59	3.09
3111	1556	1031	1.13	16XL	1.019	18XL	1.146	1.15	.58	.38	....	1.79	2.29	2.79	3.29
3063	1532	1015	1.14	28XL	1.783	32XL	2.037	1.98	1.00	.66	....	....	....	....	2.49
3063	1532	1015	1.14	21XL	1.337	24XL	1.528	1.49	.75	.50	....	....	1.74	2.24	2.74
3063	1532	1015	1.14	14XL	.891	16XL	1.019	1.00	.50	.33	1.49	1.99	2.49	2.99	3.49	
3000	1500	994	1.17	24XL	1.528	28XL	1.783	1.71	.86	.56	....	....	....	2.39	2.89
3000	1500	994	1.17	18XL	1.146	21XL	1.337	1.28	.64	.42	....	1.54	2.04	2.54	3.04
3000	1500	994	1.17	12XL	.764	14XL	.891	.86	.43	.28	1.69†	2.19†	2.69†	3.19†	3.69†	
2917	1458	967	1.20	30XL	1.910	36XL	2.292	2.11	1.07	.71	....	....	....	....	....
2917	1458	967	1.20	20XL	1.273	24XL	1.528	1.42	.72	.46	....	....	1.79	2.29	2.79
2917	1458	967	1.20	15XL	.955	18XL	1.146	1.07	.53	.36	1.34	1.84	2.34	2.84	3.34	
2864	1432	949	1.22	18XL	1.146	22XL	1.401	1.28	.64	.42	....	....	1.99	2.49	2.99
2800	1400	928	1.25	24XL	1.528	30XL	1.910	1.71	.86	.56	....	....	....	2.29	2.79
2800	1400	928	1.25	16XL	1.019	20XL	1.273	1.15	.58	.38	....	1.69	2.19	2.69	3.19
2800	1400	928	1.25	12XL	.764	15XL	.955	.86	.43	.28	1.6†	2.14†	2.64†	3.14†	3.64†	
2750	1375	911	1.27	22XL	1.401	28XL	1.783	1.57	.79	.52	....	....	....	1.99	2.49
2750	1375	911	1.27	11XL	.700	14XL	.891	.79	.39	.26	1.7†	2.24†	2.74†	3.24†	3.74†	
2722	1361	902	1.29	28XL	1.783	36XL	2.292	1.98	1.00	.66	....	....	....	....	2.28
2722	1361	902	1.29	14XL	.891	18XL	1.146	1.00	.50	.33	1.39	1.89	2.39	2.89	3.39	
2667	1333	884	1.31	16XL	1.019	21XL	1.337	1.15	.58	.38	....	1.64	2.14	2.64	3.14
2625	1313	870	1.33	30XL	1.910	40XL	2.546	2.11	1.07	.71	....	....	....	....	....
2625	1313	870	1.33	24XL	1.528	32XL	2.037	1.71	.86	.56	....	....	1.89	....	2.18
2625	1313	870	1.33	21XL	1.337	28XL	1.783	1.49	.75	.50	....	....	....	2.03	2.54
2625	1313	870	1.33	18XL	1.146	24XL	1.528	1.28	.64	.42	....	....	....	2.39	2.89
2625	1313	870	1.33	15XL	.955	20XL	1.273	1.07	.53	.36	....	1.74	2.24	2.74	3.24
2625	1313	870	1.33	12XL	.764	16XL	1.019	.86	.43	.28	1.59†	2.09†	2.59†	3.09†	3.59†	
2567	1283	851	1.36	22XL	1.401	30XL	1.910	1.57	.79	.52	....	....	....	2.38	2.88
2567	1283	851	1.36	11XL	.700	15XL	.955	.79	.39	.26	1.69†	2.19†	2.69†	3.19†	3.69†	
2545	1273	844	1.38	16XL	1.019	22XL	1.401	1.15	.58	.38	....	1.58	2.09	2.59	3.09
2500	1250	829	1.40	30XL	1.910	42XL	2.674	2.11	1.07	.71	....	1.68	....	....	....
2500	1250	829	1.40	20XL	1.273	28XL	1.783	1.42	.72	.46	....	....	....	2.08	2.58
2500	1250	829	1.40	15XL	.955	21XL	1.337	1.07	.53	.36	....	....	2.19	2.69	3.19
2450	1225	812	1.43	28XL	1.783	40XL	2.546	1.98	1.00	.66	....	....	....	....	....
2450	1225	812	1.43	21XL	1.337	30XL	1.910	1.49	.75	.50	....	....	....	1.92	2.43
2450	1225	812	1.43	14XL	.891	20XL	1.273	1.00	.50	.33	....	1.79	2.29	2.79	3.29
2406	1203	798	1.45	22XL	1.401	32XL	2.037	1.57	.79	.52	....	....	....	2.27	2.78
2406	1203	798	1.45	11XL	.700	16XL	1.019	.79	.39	.26	1.64†	2.14†	2.64†	3.14†	3.64†	

Δ HP ratings are for conventional speed-reduction drives.

† See Teeth in Mesh table on opposite page

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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SELECTION



XL Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts														
120XL	130XL	140XL	150XL	160XL	170XL	180XL	190XL	200XL	210XL	220XL	230XL	240XL	250XL	260XL
3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00
3.20	3.70	4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20
3.60	4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60
3.80	4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80
3.90	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90
4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00
4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20	10.70	11.20
4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90	11.40
4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60	11.10	11.60
4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80	11.30	11.80
4.90†	5.40†	5.90†	6.40†	6.90†	7.40†	7.90†	8.40†	8.90†	9.40†	9.90†	10.40†	10.90†	11.40†	11.90†
3.85	4.35	4.85	5.35	5.85	6.35	6.85	7.35	7.85	8.35	8.85	9.35	9.85	10.35	10.85
3.95	4.45	4.95	5.45	5.95	6.45	6.95	7.45	7.95	8.45	8.95	9.45	9.95	10.45	10.95
2.89	3.39	3.89	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90
4.45	4.95	5.45	5.95	6.45	6.95	7.45	7.95	8.45	8.95	9.45	9.95	10.45	10.95	11.45
3.09	3.59	4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10
4.55	5.05	5.55	6.05	6.55	7.05	7.55	8.05	8.55	9.05	9.55	10.05	10.55	11.05	11.55
3.69	4.20	4.70	5.20	5.70	6.20	6.70	7.20	7.70	8.20	8.70	9.20	9.70	10.20	10.70
4.85†	5.35†	5.85†	6.35†	6.85†	7.35†	7.85†	8.35†	8.85†	9.35†	9.85†	10.35†	10.85†	11.35†	11.85†
3.89	4.40	4.90	5.40	5.90	6.40	6.90	7.40	7.90	8.40	8.90	9.40	9.90	10.40	10.90
4.10	4.60	5.10	5.60	6.10	6.60	7.10	7.60	8.10	8.60	9.10	9.60	10.10	10.60	11.10
4.30	4.80	5.30	5.80	6.30	6.80	7.30	7.80	8.30	8.80	9.30	9.80	10.30	10.80	11.30
2.99	3.49	3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99
3.74	4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.24	9.74	10.24	10.74
4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
3.39	3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39
4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.04	9.54	10.04	10.54	11.04
4.70†	5.20†	5.70†	6.20†	6.70†	7.20†	7.70†	8.20†	8.70†	9.20†	9.70†	10.20†	10.70†	11.20†	11.70†
2.69	3.19	3.69	4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69
3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79
4.34	4.84	5.34	5.84	6.34	6.84	7.34	7.84	8.34	8.84	9.34	9.84	10.34	10.84	11.34
3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49	10.99
3.29	3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	11.19
4.64†	5.14†	5.64†	6.14†	6.64†	7.14†	7.64†	8.14†	8.64†	9.14†	9.64†	10.14†	10.64†	11.14†	11.64†
3.49	3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49
4.74†	5.24†	5.74†	6.24†	6.74†	7.24†	7.74†	8.24†	8.74†	9.24†	9.74†	10.24†	10.74†	11.24†	11.74†
2.78	3.29	3.79	4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79
4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39	10.89	11.39
4.14	4.64	5.14	5.64	6.14	6.64	7.14	7.64	8.14	8.64	9.14	9.64	10.14	10.64	11.14
2.48	2.98	3.48	3.98	4.48	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49
3.19	3.69	4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19
3.54	4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.04	9.54	10.04	10.54
3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39	10.89
4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.24	9.74	10.24	10.74	11.24
4.59†	5.09†	5.59†	6.09†	6.59†	7.09†	7.59†	8.09†	8.59†	9.09†	9.59†	10.09†	10.59†	11.09†	11.59†
3.39	3.89	4.39	4.89	5.39	5.89	6.39	6.89	7.39	7.89	8.39	8.89	9.39	9.89	10.39
4.69†	5.19†	5.69†	6.19†	6.69†	7.19†	7.69†	8.19†	8.69†	9.19†	9.69†	10.19†	10.69†	11.19†	11.69†
4.09	4.59	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59	11.09
....	2.87	3.37	3.88	4.38	4.88	5.38	5.88	6.38	6.88	7.39	7.89	8.39	8.89	9.39
3.59	4.09	4.59	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	11.19
2.57	3.07	3.58	4.08	4.58	5.08	5.58	6.08	6.58	7.09	7.59	8.09	8.59	9.09	9.59
3.43	3.84	4.44	4.94	5.44	5.94	6.44	6.94	7.44	7.94	8.44	8.94	9.44	9.94	10.44
4.29	4.79	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79	11.29
3.28	3.78	4.28	4.78	5.29	5.79	6.29	6.79	7.29	7.79	8.29	8.79	9.29	9.79	10.29
4.64†	5.14†	5.64†	6.14†	6.64†	7.14†	7.64†	8.14†	8.64†	9.14†	9.64†	10.14†	10.64†	11.14†	11.64†

XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

XL Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL	
2386	1193	791	1.47	15XL	1.901	44XL	2.801	2.11	1.07	.71	....	....	....	....	....
2386	1193	791	1.47	30XL	.955	22XL	1.401	1.07	.53	.36	....	1.63	2.13	2.64	3.14
2334	1167	773	1.50	28XL	1.783	42XL	2.674	1.98	1.00	.66	....	....	....	....	....
2334	1167	773	1.50	24XL	1.528	36XL	2.292	1.71	.86	.56	....	....	....	....	2.47
2334	1167	773	1.50	20XL	1.273	30XL	1.910	1.42	.72	.46	....	....	....	1.97	2.48
2334	1167	773	1.50	16XL	1.019	24XL	1.528	1.15	.58	.38	....	....	1.98	2.48	2.98
2334	1167	773	1.50	14XL	.891	21XL	1.337	1.00	.50	.33	....	1.73	2.23	2.74	3.24
2334	1167	773	1.50	12XL	.764	18XL	1.146	.86	.43	.28	1.48†	1.99†	2.49†	2.99†	3.99†	
2297	1148	761	1.52	21XL	1.337	32XL	2.037	1.49	.75	.50	....	....	....	2.32	2.82
2250	1125	746	1.56	18XL	1.146	28XL	1.783	1.28	.64	.42	....	....	....	2.17	2.68
2227	1114	738	1.57	28XL	1.783	44XL	2.801	1.98	1.00	.66	....	....	....	....	....
2227	1114	738	1.57	14XL	.891	22XL	1.401	1.00	.50	.33	....	1.68	2.18	2.68	3.19
2188	1094	725	1.60	30XL	1.910	48XL	3.056	2.11	1.07	.71	....	....	....	....	....
2188	1094	725	1.60	20XL	1.273	32XL	2.037	1.42	.72	.46	....	....	....	1.86	2.36
2188	1094	725	1.60	15XL	.955	24XL	1.528	1.07	.53	.36	....	1.52	2.02	2.53	3.03
2139	1059	709	1.64	22XL	1.401	36XL	2.292	1.57	.79	.52	....	....	....	....	2.56
2139	1069	709	1.64	11XL	.700	18XL	1.146	.790	.39	.26	1.53†	2.03†	2.54†	3.64†	3.54†	
2100	1050	696	1.67	24XL	1.528	40XL	2.546	1.71	.86	.56	....	....	....	....	....
2100	1050	696	1.67	18XL	1.146	30XL	1.910	1.28	.64	.42	....	....	....	2.06	2.57
2100	1050	696	1.67	12XL	.764	20XL	1.273	.86	.43	.28	1.37†	1.88†	2.38†	2.88†	3.39†	
2042	1021	677	1.71	28XL	1.783	48XL	3.056	1.98	1.00	.66	....	....	....	....	....
2042	1021	677	1.71	21XL	1.337	36XL	2.292	1.49	.75	.50	....	....	....	....	2.09
2042	1021	677	1.71	14XL	.891	24XL	1.528	1.00	.50	.33	....	1.56	2.07	2.58	3.08
2000	1000	663	1.75	24XL	1.528	42XL	2.674	1.71	.86	.56	....	....	....	....	....
2000	1000	663	1.75	16XL	1.019	28XL	1.783	1.15	.58	.38	....	....	1.75	2.26	2.77
2000	1000	663	1.75	12XL	.764	21XL	1.337	.86	.43	.28	1.31†	1.82†	2.33†	2.83†	3.33†	
1969	984	653	1.78	18XL	1.146	32XL	2.037	1.28	.64	.42	....	....	....	1.94	2.46
1944	972	644	1.80	20XL	1.273	36XL	2.292	1.42	.72	.46	....	....	....	....	2.13
1925	963	637	1.82	22XL	1.401	40XL	2.546	1.57	.79	.52	....	....	....	....	2.32
1925	963	637	1.82	11XL	.700	20XL	1.273	.790	.39	.26	1.42†	1.92†	2.43†	2.93†	3.43†	
1909	955	633	1.83	24XL	1.528	44XL	2.801	1.71	.86	.56	....	....	....	....	....
1909	955	633	1.83	12XL	.764	22XL	1.401	.86	.43	.28	....	1.77†	2.27†	2.78†	3.28†
1875	937	621	1.87	15XL	.955	28XL	1.783	1.07	.53	.36	....	....	1.80	2.31	2.82
1867	933	619	1.88	16XL	1.019	30XL	1.910	1.15	.58	.38	....	....	....	2.15	2.66
1838	919	609	1.90	21XL	1.337	40XL	2.546	1.49	.75	.50	....	....	....	....	2.37
1833	917	607	1.91	22XL	1.401	42XL	2.674	1.57	.79	.52	....	....	....	....	....
1833	917	607	1.91	11XL	.700	21XL	1.337	.790	.39	.26	1.36†	1.87†	2.37†	2.88†	3.38†	
1750	875	580	2.00	30XL	1.910	60XL	3.820	2.11	1.07	.71	....	....	....	....	....
1750	875	580	2.00	24XL	1.528	48XL	3.056	1.71	.86	.56	....	....	....	....	....
1750	875	580	2.00	22XL	1.401	44XL	2.801	1.57	.79	.52	....	....	....	....	....
1750	875	580	2.00	21XL	1.337	42XL	2.674	1.49	.75	.50	....	....	....	....	2.25
1750	875	580	2.00	20XL	1.273	40XL	2.546	1.42	.72	.46	....	....	....	....	2.41
1750	875	580	2.00	18XL	1.146	36XL	2.292	1.28	.64	.42	....	....	....	....	2.74
1750	875	580	2.00	16XL	1.019	32XL	2.037	1.15	.58	.38	....	....	....	2.03	2.54
1750	875	580	2.00	15XL	.955	30XL	1.910	1.07	.53	.36	....	....	1.68	2.19	2.70
1750	875	580	2.00	14XL	.891	28XL	1.783	1.00	.50	.33	....	....	....	....	....
1750	875	580	2.00	12XL	.764	24XL	1.528	.86	.43	.28	....	1.65†	2.16†	2.67†	3.17†
1750	875	580	2.00	11XL	.700	22XL	1.401	.790	.39	.26	1.30†	1.81†	2.32†	2.82†	3.33†	
1670	835	554	2.10	21XL	1.337	44XL	2.801	1.49	.75	.50	....	....	....	....	....
1666	833	552	2.10	20XL	1.273	42XL	2.674	1.42	.72	.46	....	....	....	....	2.29
1641	820	544	2.13	15XL	.955	32XL	2.037	1.07	.53	.36	....	....	....	2.07	2.59
1833	817	542	2.14	28XL	1.783	60XL	3.820	1.98	1.00	.66	....	....	....	....	....
1833	817	542	2.14	14XL	.891	30XL	1.910	1.08	.50	.33	....	....	1.72†	2.24†	2.75
1604	802	532	2.18	22XL	1.401	48XL	3.056	1.57	.79	.52	....	....	....	....	....
1604	802	532	2.18	11XL	.700	24XL	1.528	.790	.39	.26	....	1.69†	2.21†	2.71†	3.22†
1591	795	527	2.20	20XL	1.273	44XL	2.801	1.42	.72	.46	....	....	....	....	....
1575	788	523	2.22	18XL	1.146	40XL	2.546	1.28	.64	.42	....	....	....	....	2.50
1556	778	516	2.25	16XL	1.019	36XL	2.292	1.15	.58	.38	....	....	....	2.31	2.82

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† † See Teeth in Mesh table on opposite page.

▼ Flanges Required on both pulleys.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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XL Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts														
120XL	130XL	140XL	150XL	160XL	170XL	180XL	190XL	200XL	210XL	220XL	230XL	240XL	250XL	260XL
.....	2.76	3.27	3.77	4.27	4.77	5.28	5.78	6.28	6.78	7.28	7.78	8.28	8.78	9.28
4.14	4.64	5.14	5.64	6.14	6.64	7.14	7.64	8.14	8.64	9.14	9.64	10.14	10.64	11.14
2.46	2.96	3.47	3.97	4.47	4.98	5.48	5.98	6.48	6.98	7.48	7.98	8.48	8.98	9.49
2.97	3.47	3.98	4.48	4.98	5.48	5.98	6.48	6.99	7.49	7.99	8.49	8.99	9.49	9.99
3.48	3.98	4.48	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49
3.99	4.49	4.99	5.49	5.99	6.49	6.99	7.49	7.99	8.49	8.99	9.49	9.99	10.49	10.99
4.24	4.74	5.24	5.74	6.24	6.74	7.24	7.74	8.24	8.74	9.24	9.74	10.24	10.74	11.24
4.49†	4.99†	5.49†	5.99†	6.49†	6.99†	7.49†	7.99†	8.49†	8.99†	9.49†	9.99†	10.49†	10.99†	11.49†
3.33	3.83	4.33	4.83	5.33	5.84	6.34	6.84	7.34	7.84	8.34	8.84	9.34	9.84	10.34
3.68	4.18	4.68	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69
.....	2.85	3.36	3.86	4.37	4.87	5.37	5.87	6.38	6.88	7.38	7.88	8.38	8.88	9.38
4.19	4.69	5.19	5.69	6.19	6.69	7.19	7.69	8.19	8.69	9.19	9.69	10.19	10.69	11.19
.....	.....	3.04	3.55	4.06	4.56	5.06	5.57	6.07	6.57	7.07	7.57	8.08	8.58	9.08
3.37	3.88	4.38	4.88	5.38	5.88	6.38	6.88	7.39	7.89	8.39	8.89	9.39	9.89	10.39
4.04	4.54	5.04	5.54	6.04	6.54	7.04	7.54	8.04	8.54	9.04	9.54	10.04	10.54	11.04
3.06	3.57	4.07	4.57	5.08	5.58	6.08	6.58	7.08	7.58	8.08	8.58	9.08	9.59	10.09
4.54†	5.04†	5.54†	6.04†	6.54†	7.04†	7.54†	8.04†	8.54†	9.04†	9.54†	10.04†	10.54†	11.04†	11.54†
2.75	3.26	3.76	4.27	4.77	5.27	5.77	6.27	6.78	7.28	7.78	8.28	8.78	9.28	9.78
3.58	4.08	4.58	5.08	5.58	6.08	6.58	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59
4.39†	4.89†	5.39†	5.89†	6.39†	6.89†	7.39†	7.89†	8.39†	8.89†	9.39†	9.89†	10.39†	10.89†	11.39†
.....	.....	3.13	3.64	4.15	4.65	5.16	5.66	6.16	6.67	7.17	7.67	8.17	8.67	9.17
3.11	3.61	4.12	4.62	5.12	5.63	6.13	6.63	7.13	7.63	8.13	8.63	9.13	9.63	10.13
4.08	4.58	5.09	5.59	6.09	6.59	7.09	7.59	8.09	8.59	9.09	9.59	10.09	10.59	11.09
2.63	3.14	3.65	4.16	4.66	5.16	5.67	6.17	6.67	7.17	7.67	8.18	8.68	9.18	9.68
3.78	4.28	4.78	5.28	5.78	6.28	6.78	7.29	7.79	8.29	8.79	9.29	9.79	10.29	10.79
4.34†	4.84†	5.34†	5.84†	6.34†	6.84†	7.34†	7.84†	8.34†	8.84†	9.34†	9.84†	10.34†	10.84†	11.34†
3.47	3.97	4.47	4.98	5.48	5.98	6.48	6.98	7.48	7.98	8.48	8.98	9.49	9.99	10.49
3.15	3.66	4.16	4.67	5.17	5.67	6.17	6.68	7.18	7.68	8.18	8.68	9.18	9.68	10.18
2.84	3.35	3.85	4.36	4.86	5.36	5.87	6.37	6.87	7.37	7.87	8.38	8.88	9.38	9.88
4.44†	4.94†	5.44†	5.94†	6.44†	6.94†	7.44†	7.94†	8.44†	8.94†	9.44†	9.94†	10.44†	10.94†	11.44†
2.51	3.03	3.54	4.05	4.55	5.06	5.56	6.06	6.56	7.07	7.57	8.07	8.57	9.07	9.57
4.28†	4.78†	5.29†	5.79†	6.29†	6.79†	7.29†	7.79†	8.29†	8.79†	9.29†	9.79†	10.29†	10.79†	11.29†
3.82	4.33	4.83	5.33	5.83	6.33	6.83	7.33	7.83	8.34	8.84	9.34	9.84	10.34	10.84
3.67	4.17	4.67	5.18	5.68	6.18	6.68	7.18	7.68	8.18	8.68	9.18	9.69	10.19	10.69
2.88	3.39	3.90	4.40	4.91	5.41	5.91	6.42	6.92	7.42	7.92	8.42	8.93	9.43	9.93
2.72	3.23	3.74	4.25	4.75	5.26	5.76	6.26	6.77	7.27	7.77	8.27	8.77	9.27	9.77
4.38†	4.89†	5.39†	5.89†	6.39†	6.89†	7.39†	7.89†	8.39†	8.89†	9.39†	9.89†	10.39†	10.89†	11.39†
.....	.....	.....	.....	3.36	3.88	4.39	4.90	5.41	5.92	6.42	6.93	7.43	7.94	8.44
.....	2.79	3.31	3.82	4.33	4.84	5.34	5.85	6.35	6.85	7.36	7.86	8.38	8.86	9.36
2.60	3.12	3.63	4.14	4.64	5.15	5.65	6.16	6.66	7.16	7.66	8.17	8.67	9.17	9.67
2.76	3.28	3.79	4.29	4.80	5.30	5.81	6.31	6.81	7.31	7.82	8.32	8.82	9.32	9.82
2.93	3.44	3.94	4.45	4.95	5.46	5.96	6.46	6.97	7.47	7.97	8.47	8.97	9.47	9.98
3.24	3.75	4.26	4.76	5.26	5.77	6.27	6.77	7.27	7.77	8.28	8.78	9.28	9.78	10.28
3.56	4.06	4.57	5.07	5.57	6.07	6.58	7.08	7.58	8.08	8.58	9.08	9.58	10.08	10.58
3.71	4.22	4.72	5.22	5.73	6.23	6.73	7.23	7.73	8.23	8.73	9.23	9.73	10.23	10.73
3.87	4.37	4.88	5.38	5.88	6.38	6.88	7.38	7.88	8.38	8.88	9.38	9.89	10.39	10.89
4.18†	4.68†	5.18†	5.68†	6.18†	6.68†	7.19†	7.69†	8.19†	8.69†	9.19†	9.69†	10.19†	10.69†	11.19†
4.33†	4.83†	5.33†	5.84†	6.34†	6.84†	7.34†	7.84†	8.34†	8.84†	9.34†	9.84†	10.34†	10.84†	11.34†
2.64	3.16	3.67	4.18	4.69	5.19	5.70	6.20	6.71	7.21	7.71	8.21	8.71	9.22	9.72
2.81	3.32	3.83	4.34	4.84	5.35	5.85	6.36	6.86	7.36	7.86	8.37	8.87	9.37	9.87
3.60	4.11	4.61	5.12	5.62	6.12	6.62	7.12	7.63	8.13	8.63	9.13	9.63	10.13	10.63
.....	.....	.....	.....	3.44	3.96	4.48	4.99	5.50	6.01	6.52	7.02	7.53	8.03	8.53
3.76	4.27	4.77	5.27	5.77	6.27	6.78	7.28	7.78	8.28	8.78	9.28	9.78	10.28	10.78
.....	2.88	3.39	3.91	4.42	4.93	5.43	5.94	6.44	6.95	7.45	7.95	8.45	8.96	9.46
4.23†	4.73†	5.23†	5.73†	6.23†	6.73†	7.23†	7.73†	8.24†	8.74†	9.24†	9.74†	10.24†	10.74†	11.24†
2.69	3.20	3.72	4.23	4.73	5.24	5.74	6.25	6.75	7.26	7.76	8.26	8.76	9.26	9.77
3.01	3.53	4.03	4.54	5.05	5.55	6.05	6.56	7.06	7.56	8.07	8.57	9.07	9.57	10.07
3.33	3.84	4.35	4.85	5.36	5.86	6.36	6.87	7.37	7.87	8.37	8.87	9.37	9.87	10.38

XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80
‡	4	.80

Shaded area indicates stock belt widths.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

XL Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	60XL	70XL	80XL	90XL	100XL	110XL	
1531	766	508	2.29	21XL	1.337	48XL	3.056	1.49	.75	.50	....	....	....	....	....
1531	766	508	2.29	14XL	.891	32XL	2.037	1.00	.50	.33	....	....	....	2.12†	2.63†	3.14†
1500	750	498	2.33	18XL	1.146	42XL	2.674	1.28	.64	.42	....	....	....	....	....	2.37†
1500	750	498	2.33	12XL	.764	28XL	1.783	.86	.43	.28	....	....	1.93‡	2.44†	2.95†	3.46†
1458	729	483	2.40	30XL	1.910	72XL	4.584	2.11	1.07	.71	....	....	....	....	....	....
1458	729	483	2.40	20XL	1.273	48XL	3.056	1.42	.72	.46	....	....	....	....	....	....
1458	729	483	2.40	15XL	.955	36XL	2.292	1.07	.53	.36	....	....	....	....	2.35†	2.87†
1432	716	475	2.44	18XL	1.146	44XL	2.801	1.28	.64	.42	....	....	....	....	....	2.24†
1400	700	464	2.50	24XL	1.528	60XL	3.820	1.71	.86	.56	....	....	....	....	....	....
1400	700	464	2.50	16XL	1.019	40XL	2.546	1.15	.58	.38	....	....	....	....	2.05†	2.58†
1400	700	464	2.50	12XL	.764	30XL	1.910	.86	.43	.28	....	....	1.80‡	2.32†	....	3.35†
1375	688	456	2.55	11XL	.700	28XL	1.783	.79	.39	.26	....	....	1.97‡	2.49†	2.84†	3.50†
1361	681	451	2.57	28XL	1.783	72XL	4.584	1.98	1.00	.66	....	....	....	1.86†	3.00†	2.91†
1361	681	451	2.57	14XL	.891	36XL	2.292	1.00	.50	.33	....	....	....	....	2.39†	2.45†
1333	666	442	2.63	16XL	1.019	42XL	2.674	1.15	.58	.38	....	....	....	....	....	....
1312	656	435	2.67	18XL	1.146	48XL	3.056	1.28	.64	.42	....	....	....	....	....	....
1312	656	435	2.67	15XL	.955	40XL	2.546	1.07	.53	.36	....	....	....	....	2.09†	2.62†
1312	656	435	2.67	12XL	.764	32XL	2.037	.86	.43	.28	....	....	1.67‡	2.20†	2.72†	3.23†
1283	642	425	2.73	22XL	1.401	60XL	3.820	1.57	.79	.52	....	....	....	....	....	....
1283	642	425	2.73	11XL	.700	30XL	1.910	.79	.39	.26	....	....	1.85‡	2.37†	2.88†	3.39†
1273	638	422	2.75	16XL	1.019	44XL	2.801	1.15	.58	.38	....	....	....	....	....	2.32†
1250	625	414	2.80	15XL	.955	42XL	2.674	1.07	.53	.36	....	....	....	....	....	2.50†
1225	613	406	2.86	21XL	1.337	60XL	3.820	1.49	.75	.50	....	....	....	....	....	....
1225	613	406	2.86	14XL	.891	40XL	2.546	1.00	.50	.33	....	....	....	....	2.13†	2.67†
1203	601	399	2.91	11XL	.700	32XL	2.037	.79	.39	.26	....	....	1.71§	2.25†	2.78†	3.28†
1193	597	396	2.93	15XL	.955	44XL	2.801	1.07	.53	.36	....	....	....	....	....	2.36†
1167	583	387	3.00	24XL	1.528	72XL	4.584	1.71	.86	.56	....	....	....	....	....	....
1167	583	387	3.00	20XL	1.273	60XL	3.820	1.42	.72	.46	....	....	....	....	....	....
1167	583	387	3.00	16XL	1.019	48XL	3.056	1.15	.58	.38	....	....	....	....	....	....
1167	583	387	3.00	14XL	.891	42XL	2.874	1.00	.50	.33	....	....	....	....	1.99‡	2.54†
1167	583	387	3.00	12XL	.764	36XL	2.292	.86	.43	.28	....	....	....	1.94‡	2.48†	3.00†
1114	557	370	3.14	14XL	.891	44XL	2.801	1.00	.50	.33	....	....	....	....	....	2.40†
1094	547	363	3.20	15XL	.955	48XL	3.056	1.07	.53	.36	....	....	....	....	....	....
1089	535	355	3.27	22XL	1.401	72XL	4.584	1.57	.79	.52	....	....	....	....	....	....
1089	535	355	3.27	11XL	.700	36XL	2.292	.79	.39	.26	....	....	....	1.98§	2.52†	3.04†
1050	525	348	3.33	18XL	1.146	60XL	3.820	1.28	.64	.42	....	....	....	....	....	....
1050	525	348	3.33	12XL	.764	40XL	2.546	.86	.43	.28	....	....	....	....	2.21†	2.75†
1021	510	338	3.43	21XL	1.337	72XL	4.584	1.49	.75	.50	....	....	....	....	....	....
1021	510	338	3.43	14XL	.891	48XL	3.056	1.00	.50	.33	....	....	....	....	....	....
1000	500	331	3.50	12XL	.764	42XL	2.874	.86	.43	.28	....	....	....	....	2.07†	2.82†
972	486	322	3.60	20XL	1.273	72XL	4.584	1.42	.72	.46	....	....	....	....	....	....
963	481	319	3.64	11XL	.700	40XL	2.546	.79	.39	.26	....	....	....	....	2.25§	2.79†
955	477	316	3.67	12XL	.784	44XL	2.801	.86	.43	.28	....	....	....	....	....	2.48†
933	467	309	3.75	16XL	1.019	60XL	3.820	1.15	.58	.38	....	....	....	....	....	....
917	458	304	3.82	11XL	.700	42XL	2.674	.79	.39	.26	....	....	....	....	2.11§	2.66†
875	438	290	4.00	18XL	1.146	72XL	4.584	1.28	.64	.42	....	....	....	....	....	....
875	438	290	4.00	15XL	.955	60XL	3.820	1.07	.53	.36	....	....	....	....	....	....
875	438	290	4.00	12XL	.764	48XL	3.056	.86	.43	.28	....	....	....	....	....	2.19§
875	438	290	4.00	11XL	.700	44XL	2.801	.79	.39	.26	....	....	....	....	1.96§	2.52§
817	408	270	4.29	14XL	.891	60XL	3.820	1.00	.50	.33	....	....	....	....	....	....
802	401	266	4.36	11XL	.700	48XL	3.056	.79	.39	.26	....	....	....	....	....	2.23§
778	389	258	4.50	16XL	1.019	72XL	4.584	1.15	.58	.38	....	....	....	....	....	....
730	365	242	4.80	15XL	.955	72XL	4.584	1.07	.53	.36	....	....	....	....	....	....
700	350	232	5.00	12XL	.764	60XL	3.820	.86	.43	.28	....	....	....	....	....	....
681	340	226	5.14	14XL	.891	72XL	4.584	1.00	.50	.33	....	....	....	....	....	....
642	321	213	5.45	11XL	.700	60XL	3.820	.79	.39	.26	....	....	....	....	....	....
584	292	193	6.00	12XL	.764	72XL	4.584	.86	.43	.28	....	....	....	....	....	....
535	267	177	6.55	11XL	.700	72XL	4.584	.79	.39	.26	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.
 For Speed-Up Drives refer to page PT10-17.
 † Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.
 ‡ ‡ ‡ See Teeth in Mesh table on opposite page.
 § Flanges Required on both pulleys.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

L Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	124L	150L	187L	210L	225L	240L
3500	1750	1160		1.00	48L	5.730	48L	5.730	6.27	4.06	2.81
3500	1750	1160	1.00	40L	4.775	40L	4.775	5.87	3.47	2.36	....	....	....	....	....	....
3500	1750	1160	1.00	32L	3.820	32L	3.820	5.10	2.83	1.91	....	....	....	4.51	5.26	6.01
3500	1750	1160	1.00	30L	3.581	30L	3.581	4.86	2.66	1.79	....	....	....	4.88	5.63	6.38
3500	1750	1160	1.00	28L	3.342	28L	3.342	4.71	2.49	1.67	....	....	4.13	5.26	6.01	6.76
3500	1750	1160	1.00	26L	3.104	26L	3.104	4.35	2.32	1.56	....	....	4.51	5.83	6.38	7.13
3500	1750	1160	1.00	24L	2.865	24L	2.865	4.06	2.15	1.44	....	....	4.88	6.01	6.76	7.51
3500	1750	1160	1.00	22L	2.626	22L	2.626	3.77	1.98	1.32	....	3.38	5.26	6.39	7.13	7.89
3500	1750	1160	1.00	20L	2.387	20L	2.387	3.46	1.80	1.20	....	3.76	5.63	6.76	7.51	8.26
3500	1750	1160	1.00	18L	2.149	18L	2.149	3.15	1.62	1.08	2.82	4.13	6.01	7.14	7.89	8.64
3500	1750	1160	1.00	16L	1.910	16L	1.910	2.83	1.45	.97	3.20	4.51	6.39	7.51	8.26	9.01
3500	1750	1160	1.00	14L	1.671	14L	1.671	2.49	1.27	.85	3.57	4.89	6.76	7.89	8.64	9.39
....	1750	1160	1.00	12L	1.432	12L	1.432	....	1.09	.72	3.95	5.26	7.14	8.26	9.01	9.76
....	1750	1160	1.00	10L	1.194	10L	1.194	....	.91	.60	4.32†	5.64†	7.51	8.64†	9.39†	10.14†
3281	1641	1087	1.07	30L	3.581	32L	3.820	4.86	2.66	1.79	....	....	....	4.69	5.44	6.19
3267	1633	1083	1.07	28L	3.342	30L	3.581	4.61	2.49	1.67	....	....	3.94	5.07	5.82	6.57
3250	1625	1077	1.08	26L	3.104	28L	3.342	4.35	2.32	1.56	....	....	4.32	5.44	6.19	6.95
3231	1615	1071	1.08	24L	2.865	26L	3.104	4.06	2.15	1.44	....	....	4.69	5.82	6.57	7.32
3208	1604	1063	1.09	22L	2.626	24L	2.865	3.77	1.98	1.32	....	....	5.07	6.20	6.95	7.70
3182	1591	1055	1.10	20L	2.387	22L	2.626	3.46	1.80	1.20	....	3.57	5.45	6.57	7.32	8.07
3150	1575	1044	1.11	18L	2.149	20L	2.387	3.15	1.62	1.08	....	3.94	5.82	6.95	7.70	8.45
3111	1556	1031	1.13	16L	1.910	18L	2.149	2.83	1.45	.97	....	4.32	6.20	7.32	8.07	8.82
3063	1531	1015	1.14	28L	3.342	32L	3.820	4.61	2.49	1.67	....	....	....	4.88	5.63	6.38
3036	1531	1015	1.14	14L	1.671	16L	1.910	2.49	1.27	.85	3.38	4.70	6.57	7.70	8.45	9.20
3033	1517	1005	1.15	26L	3.104	30L	3.581	4.35	2.32	1.56	....	....	4.12	5.25	6.00	6.75
3000	1500	994	1.17	24L	2.865	28L	3.342	4.06	2.15	1.44	....	....	4.50	5.63	6.38	7.13
....	1500	994	1.17	12L	1.432	14L	1.671	....	1.09	.72	3.76†	5.07†	6.95†	8.07†	8.83†	9.57
2962	1481	982	1.18	22L	2.626	26L	3.104	3.77	1.98	1.32	....	....	4.88	6.00	6.76	7.51
2917	1458	967	1.20	40L	4.775	48L	5.730	5.87	3.47	2.36	....	....	....	....	....	....
2917	1458	967	1.20	20L	2.387	24L	2.865	3.46	1.80	1.20	....	3.37	5.25	6.38	7.13	7.88
....	1458	967	1.20	10L	1.194	12L	1.432	....	.91	.60	4.13†	5.45†	7.32†	8.45†	9.20†	9.95†
2864	1432	949	1.22	18L	2.149	22L	2.626	3.15	1.62	1.08	....	3.75	5.63	6.76	7.51	8.26
2844	1422	943	1.23	26L	3.104	32L	3.820	4.35	2.32	1.56	....	....	....	5.06	5.81	6.56
2800	1400	928	1.25	48L	5.730	60L	7.162	6.27	4.06	2.81	....	....	....	....	....	....
2800	1400	928	1.25	32L	3.820	40L	4.775	5.10	2.83	1.91	....	....	....	....	....	5.29
2800	1400	928	1.25	24L	2.865	30L	3.581	4.06	2.15	1.44	....	....	4.31	5.43	6.19	6.94
2800	1400	928	1.25	16L	1.910	20L	2.387	2.83	1.45	.97	2.81	4.13	6.01	7.13	7.88	8.63
2750	1375	911	1.27	22L	2.626	28L	3.342	3.77	1.98	1.32	....	....	....	5.81	6.56	7.31
2722	1361	902	1.29	14L	1.671	18L	2.149	2.49	1.27	.85	3.19	4.50	6.38	7.51	8.26	9.01
2692	1346	892	1.30	20L	2.387	26L	3.104	3.46	1.80	1.20	....	....	5.06	6.19	6.94	7.69
2625	1313	870	1.33	30L	3.581	40L	4.775	4.86	2.66	1.79	....	....	....	....	4.66	5.41
2625	1313	870	1.33	24L	2.865	32L	3.820	4.06	2.15	1.44	....	....	4.10	5.24	5.99	6.74
2625	1313	870	1.33	18L	2.149	24L	2.865	3.15	1.62	1.08	3.56†	3.55	5.44	6.56	7.31	8.06
....	1313	870	1.33	12L	1.432	16L	1.910	....	1.09	.72	....	4.88†	6.76†	7.88†	8.63†	9.38†
2567	1283	851	1.36	22L	2.626	30L	3.581	3.77	1.98	1.32	....	....	4.48	5.61	6.37	7.12
2545	1273	844	1.38	16L	1.910	22L	2.626	2.83	1.45	.97	2.61	3.93	5.81	6.94	7.69	8.44
2500	1250	829	1.40	20L	2.387	28L	3.342	3.46	1.80	1.20	....	....	4.86	5.99	6.74	7.49
....	1250	829	1.40	10L	1.194	14L	1.671	....	.91	.60	3.94†	5.26†	7.13†	8.26†	9.01†	9.76†
2450	1225	812	1.43	28L	3.342	40L	4.775	4.61	2.49	1.67	....	....	....	....	4.83	5.59
2450	1225	812	1.43	18L	2.149	20L	2.387	2.49	1.27	.85	2.99	4.31	6.19	7.32	8.07	8.82

Δ HP ratings are for conventional speed-reduction drives.

† ‡ § See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts													
255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
....	....	....	....	7.13	8.26	9.38	10.51	12.01	13.51	15.01	16.51	18.01	21.01
5.26	6.01	6.76	7.51	8.63	9.76	10.88	12.01	13.51	15.01	16.51	18.01	19.51	22.51
6.76	7.51	8.26	9.01	10.14	11.26	12.39	13.51	15.01	16.51	18.01	19.51	21.01	24.01
7.13	7.88	8.63	9.39	10.51	11.64	12.76	13.89	15.39	16.89	18.39	19.89	21.39	24.39
7.51	8.26	9.01	9.76	10.89	12.01	13.14	14.26	15.76	17.26	18.76	20.26	21.76	24.76
7.88	8.63	9.39	10.14	11.26	12.39	13.51	14.64	16.14	17.64	19.14	20.64	22.14	25.14
8.26	9.01	9.76	10.51	11.64	12.76	13.89	15.01	16.51	18.01	19.51	21.01	22.51	25.50
8.64	9.39	10.14	10.89	12.01	13.14	14.26	15.39	16.89	18.39	19.89	21.39	22.89	25.89
9.01	9.76	10.51	11.26	12.39	13.51	14.64	15.76	17.26	18.76	20.26	21.76	23.26	26.26
9.39	10.14	10.89	11.64	12.76	13.89	15.01	16.14	17.64	19.14	20.64	22.14	23.64	26.64
9.76	10.51	11.26	12.01	13.14	14.26	15.39	16.51	18.01	19.51	21.01	22.51	24.01	27.01
10.14	10.89	11.64	12.39	13.51	14.64	15.76	16.89	18.39	19.89	21.39	22.89	24.39	27.39
10.51	11.26	12.01	12.76	13.89	15.01	16.14	17.26	18.40	20.26	21.76	23.26	24.76	27.76
10.89†	11.64†	12.39†	13.14†	14.26†	15.39†	16.51†	17.64†	19.14†	20.64†	22.14†	23.64†	25.14†	28.14†
6.94	7.69	8.45	9.20	10.32	11.47	12.57	13.70	15.20	16.70	18.20	19.70	21.20	24.20
7.32	8.07	8.82	9.57	10.70	11.82	12.95	14.07	15.57	17.07	18.57	20.07	21.57	24.57
7.70	8.45	9.20	9.95	11.07	12.20	13.32	14.45	15.95	17.45	18.95	20.45	21.95	24.95
8.07	8.82	9.57	10.32	11.45	12.57	13.70	14.82	16.33	17.82	19.32	20.82	22.33	25.33
8.45	9.20	9.95	10.70	11.82	12.95	14.07	15.20	16.70	18.20	19.70	21.20	22.70	25.70
8.82	9.57	10.32	11.07	12.20	13.33	14.45	15.58	17.07	18.57	20.08	21.58	23.08	26.08
9.20	9.95	10.70	11.45	12.57	13.70	14.82	15.95	17.45	18.95	20.45	21.95	23.45	26.45
9.57	10.32	11.07	11.83	12.95	14.07	15.20	16.33	17.83	19.32	20.82	22.33	23.83	26.83
7.13	7.88	8.63	9.38	10.51	11.63	12.76	13.88	15.38	16.89	18.39	19.89	21.39	24.39
9.95	10.70	11.45	12.20	13.33	14.45	15.58	16.70	18.20	19.70	21.20	22.70	24.20	27.20
7.51	8.26	9.01	9.76	10.88	12.01	13.14	14.26	15.76	17.26	18.76	20.26	21.76	24.76
7.88	8.63	9.38	10.13	11.26	12.38	13.51	14.64	16.13	17.64	19.13	20.64	22.14	25.14
10.32†	11.07†	11.83†	12.58†	13.70†	14.83†	15.95†	17.08†	18.57†	20.08†	21.58†	23.08†	24.58†	27.58
8.26	9.01	9.76	10.51	11.63	12.76	13.88	15.01	16.51	18.01	19.51	21.01	22.51	25.51
....	....	5.99	6.74	7.87	9.00	10.12	11.25	12.75	14.25	15.75	17.25	18.76	21.76
8.63	9.38	10.13	10.88	12.01	13.13	14.26	15.38	16.89	18.39	19.89	21.39	22.89	25.89
10.70†	11.45†	12.20†	12.95†	14.08†	15.20†	16.33†	17.45†	18.95†	20.45†	21.95†	23.45†	24.95†	27.95†
9.01	9.76	10.51	11.26	12.39	13.51	14.64	15.76	17.26	18.76	20.26	21.76	23.26	26.26
7.31	8.06	8.81	9.57	10.69	11.82	12.94	14.11	15.57	17.07	18.57	20.07	21.57	24.57
....	....	....	....	....	7.45	8.58	9.36	10.86	12.36	13.87	15.37	16.87	19.87
5.99	6.74	7.49	8.25	9.37	10.50	11.62	12.75	14.25	15.75	17.26	18.76	20.26	23.26
7.69	8.44	9.19	9.04	11.07	12.19	13.32	14.44	15.94	17.45	18.95	20.45	21.95	24.95
9.38	10.13	10.88	11.64	12.76	13.89	15.01	16.13	17.64	19.14	20.64	22.14	23.64	26.64
8.06	8.81	9.57	10.32	11.44	12.57	13.69	14.82	16.32	17.82	19.32	20.82	22.32	25.32
9.76	10.51	11.26	12.01	13.14	14.26	15.39	16.51	18.01	19.51	21.01	22.51	24.01	27.01
8.44	9.19	9.94	10.69	11.82	12.94	14.11	15.20	16.70	18.20	19.70	21.20	22.70	25.70
6.17	6.92	7.67	8.43	9.55	10.68	11.81	12.93	14.44	15.94	17.44	18.94	20.44	23.44
7.49	8.25	9.00	9.75	10.88	12.00	13.13	14.25	15.75	17.26	18.76	20.26	21.76	24.76
8.82	9.57	10.32	11.07	12.19	13.32	14.45	15.57	17.07	18.57	20.07	21.57	23.07	26.07
10.13†	10.88†	11.64†	12.39†	13.51†	14.64†	15.76†	16.89†	18.39†	19.89†	21.39†	22.89†	24.39†	27.39†
7.87	8.62	9.37	10.13	11.25	12.38	13.50	14.63	16.13	17.63	19.13	20.63	22.13	25.13
9.19	9.94	10.69	11.44	12.57	13.70	14.82	15.95	17.45	18.95	20.45	21.95	23.45	26.45
8.25	9.00	9.75	10.50	11.63	12.75	13.88	15.00	16.51	18.01	19.51	21.01	22.51	25.51
10.51†	11.26†	12.01†	12.76†	13.89†	15.01†	16.14†	17.26†	18.76†	20.26†	21.77†	23.36†	24.76†	27.76†
6.34	7.10	7.85	8.60	9.73	10.86	11.99	13.12	14.62	16.12	17.62	19.12	20.63	23.63
9.57	10.32	11.07	11.82	12.95	14.11	15.20	16.32	17.82	19.32	20.82	22.32	23.82	26.82

L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	.60

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

L Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	124L	150L	187L	210L	225L	240L	
2423	1212	803	1.44	18L	2.149	26L	3.104	3.15	1.62	1.08	....	....	5.24	6.37	7.12	7.87
2406	1203	798	1.45	22L	2.626	32L	3.820	3.77	1.98	1.32	....	....	4.28	5.41	6.17	6.92
2333	1167	733	1.50	48L	5.730	72L	8.594	6.27	4.06	2.81	....	....	....	....	....	....
2333	1167	733	1.50	40L	4.775	60L	7.162	5.87	3.47	2.36	....	....	....	....	....	....
2333	1167	733	1.50	32L	3.820	48L	5.730	5.10	2.83	1.91	....	....	....	....	....	....
2333	1167	733	1.50	20L	2.387	30L	3.581	3.46	1.80	1.20	....	....	4.66	5.79	6.54	7.30
2333	1167	733	1.50	16L	1.910	24L	2.865	2.83	1.45	.97	....	3.73	5.61	6.74	7.50	8.25
....	1167	733	1.50	12L	1.432	18L	2.149	....	1.090	.72	3.36†	4.68†	6.56†	7.69†	8.44†	9.19†
2275	1138	754	1.54	26L	3.104	40L	4.775	4.35	2.32	1.56	....	....	....	4.24	5.00	5.76
2250	1125	746	1.56	18L	2.149	28L	3.342	3.15	1.62	1.08	....	....	5.04	6.07	6.92	7.67
2227	1114	738	1.57	14L	1.671	22L	2.626	2.490	1.27	.85	2.78	4.11	5.99	7.12	7.87	8.62
2188	1094	725	1.60	30L	3.581	48L	5.730	4.86	2.66	1.79	....	....	....	....	....	....
2188	1094	725	1.60	20L	2.387	32L	3.820	3.46	1.80	1.20	....	....	4.45	5.59	6.34	7.10
....	1094	725	1.60	10L	1.194	16L	1.910	....	.910	.600	3.74‡	5.06‡	6.94‡	8.07‡	8.82‡	9.57‡
2154	1077	714	1.63	16L	1.910	26L	3.104	2.83	1.45	.97	....	3.52	5.41	6.55	7.30	8.05
2100	1050	696	1.67	24L	2.865	40L	4.775	4.06	2.15	1.44	....	....	....	4.40	5.17	5.93
2100	1050	696	1.67	18L	2.149	30L	3.581	3.15	1.62	1.08	....	2.92	4.83	5.97	6.72	7.48
....	1050	696	1.67	12L	1.432	20L	2.387	....	1.090	.72	3.16†	4.48†	6.37†	7.50†	8.25†	9.00†
2042	1021	677	1.71	28L	3.342	48L	5.730	4.61	2.49	1.67	....	....	....	....	....	4.73
2042	1021	677	1.71	14L	1.671	24L	2.865	2.490	1.27	.85	....	3.90	5.79	6.92	7.67	8.43
2000	1000	663	1.75	48L	5.730	84L	10.027	6.27	4.06	2.81	....	....	....	....	....	....
2000	1000	663	1.75	16L	1.910	28L	3.342	2.83	1.45	.97	....	....	5.21	6.34	7.10	7.85
1969	985	652	1.78	18L	2.149	32L	3.820	3.15	1.62	1.08	....	....	4.62	5.76	6.52	7.27
1944	972	644	1.80	40L	4.775	72L	8.594	5.87	3.47	2.36	....	....	....	....	....	....
....	972	644	1.80	10L	1.194	18L	2.149	....	.910	.600	3.54‡	4.86‡	6.74‡	7.87‡	8.62‡	9.38‡
1925	963	638	1.82	22L	2.626	40L	4.775	3.77	1.98	1.32	....	....	....	4.57	5.34	6.10
....	955	633	1.83	12L	1.432	22L	2.626	....	1.090	.72	2.95†	4.28†	6.17†	7.50†	8.05†	8.80†
1896	948	628	1.85	26L	3.104	48L	5.730	4.35	2.32	1.56	....	....	....	....	....	4.89
1885	942	625	1.86	14L	1.671	26L	3.104	2.490	1.27	.85	....	3.69	5.59	6.72	7.48	8.23
1867	933	619	1.88	32L	3.820	60L	7.162	5.10	2.83	1.91	....	....	....	....	....	....
1867	933	619	1.88	16L	1.910	30L	3.581	2.83	1.45	.97	....	....	5.00	6.14	6.90	7.65
1750	875	580	2.00	30L	3.581	60L	7.162	4.86	2.66	1.79	....	....	....	....	....	....
1750	875	580	2.00	24L	2.865	48L	5.730	4.06	2.15	1.44	....	....	....	....	....	5.05
1750	875	580	2.00	20L	2.387	40L	4.775	3.46	1.80	1.20	....	....	....	4.73	5.50	6.27
1750	875	580	2.00	16L	1.910	32L	3.820	2.83	1.45	.97	....	....	4.79	5.93	6.69	7.45
1750	875	580	2.00	14L	1.671	28L	3.342	2.49	1.27	.85	....	3.47	5.38	6.52	7.27	8.03
....	875	580	2.00	12L	1.432	24L	2.865	....	1.090	.72	2.72†	4.07†	5.97†	7.10†	7.85†	8.61†
....	875	580	2.00	10L	1.194	20L	2.387	....	.910	.600	3.33‡	4.66‡	6.55‡	7.68‡	8.43‡	9.18‡
1667	833	552	2.10	40L	4.775	84L	10.027	5.87	3.47	2.36	....	....	....	....	....	....
1633	817	541	2.14	28L	3.342	60L	7.162	4.61	2.49	1.67	....	....	....	....	....	....
1633	817	541	2.14	14L	1.671	30L	3.581	2.490	1.27	.85	....	3.24†	5.17	6.31	7.07	7.83
....	808	535	2.17	12L	1.432	26L	3.104	....	1.090	.72	....	3.85†	5.76†	6.90†	7.65†	8.41†
1604	802	532	2.18	22L	2.626	48L	5.730	3.77	1.98	1.32	....	....	....	....	....	5.21
....	795	527	2.20	10L	1.194	22L	2.626	....	.910	.600	3.11‡	4.45‡	6.35‡	7.48‡	8.23‡	8.98‡
1575	788	522	2.22	18L	2.149	40L	4.775	3.15	1.62	1.08	....	....	....	4.89	5.67	6.44
1556	778	516	2.25	32L	3.820	72L	8.594	5.10	2.83	1.91	....	....	....	....	....	....
1531	766	507	2.29	14L	1.671	32L	3.820	2.490	1.27	.85	....	....	4.95†	6.10	6.86	7.62
1517	758	503	2.31	26L	3.104	60L	7.162	4.35	2.32	1.56	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

† ‡ See Teeth in Mesh table on opposite page.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts													
255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
8.62	9.37	10.13	10.88	12.00	13.13	14.25	15.38	16.88	18.38	19.88	21.38	22.88	25.88
7.67	8.43	9.18	9.93	11.06	12.18	13.31	14.44	15.94	17.44	18.94	20.44	21.94	24.94
....	....	....	....	....	....	....	8.13	9.65	11.17	12.68	14.19	15.69	18.70
5.17	5.93	6.69	7.45	8.58	9.71	10.84	11.97	13.48	14.98	16.48	17.99	19.49	22.49
8.05	8.80	9.55	10.31	11.43	12.56	13.69	14.81	16.31	17.81	19.32	20.82	22.32	25.32
9.00	9.75	10.50	11.24	12.38	13.50	14.63	15.76	17.26	18.76	20.26	21.76	23.26	26.26
9.94†	10.69†	11.44†	12.20†	13.32†	14.45†	15.57†	16.70†	18.20†	19.70†	21.20†	22.70†	24.20†	27.20†
6.52	7.27	8.03	8.78	9.91	11.04	12.17	13.30	14.80	16.30	17.80	19.31	20.81	23.81
8.43	9.18	9.93	10.68	11.81	12.94	14.06	15.19	16.69	18.19	19.69	21.19	22.69	25.69
9.37	10.13	10.88	11.63	12.75	13.88	15.00	16.13	17.63	19.13	20.63	22.13	23.63	26.63
5.34	6.10	6.86	7.62	8.75	9.89	11.02	12.15	13.66	15.16	16.66	18.17	19.67	22.67
7.85	8.60	9.36	10.11	11.24	12.37	13.49	14.62	16.12	17.62	19.12	20.63	22.13	25.13
10.32‡	11.07‡	11.82‡	12.57‡	13.70‡	14.82‡	15.95‡	17.07‡	18.57‡	20.07‡	21.57‡	23.07‡	24.57‡	27.57‡
8.80	9.55	10.31	11.06	12.19	13.31	14.44	15.56	17.06	18.56	20.07	21.57	23.07	26.07
6.69	7.45	8.20	8.96	10.09	11.22	12.35	13.48	14.98	16.48	17.99	19.49	20.99	23.99
8.23	8.98	9.73	10.49	11.61	12.74	13.87	14.99	16.50	18.00	19.50	21.00	22.50	25.50
9.75†	10.50†	11.25†	12.00†	13.13†	14.25†	15.38†	16.51†	18.01†	19.51†	21.01†	22.51†	24.01†	27.01†
5.50	6.27	7.03	7.79	8.93	10.06	11.20	12.33	13.83	15.34	16.84	18.35	19.85	22.86
9.18	9.93	10.68	11.43	12.56	13.69	14.81	15.94	17.44	18.94	20.44	21.94	23.44	26.44
....	....	....	....	....	....	....	....	8.35	9.90	11.43	12.96	14.47	17.50
8.61	9.36	10.11	10.86	11.99	13.12	14.24	15.37	16.87	18.37	19.88	21.38	22.88	25.88
8.03	8.78	9.53	10.29	11.42	12.55	13.67	14.80	16.30	17.80	19.31	20.81	22.31	25.31
....	....	....	....	....	....	7.64	8.80	10.33	11.85	13.37	14.89	16.40	19.42
10.13‡	10.88‡	11.63‡	12.38‡	13.51‡	14.63‡	15.76‡	16.88‡	18.38‡	19.88‡	21.38‡	22.88‡	24.38‡	27.39‡
6.86	7.62	8.38	9.13	10.27	11.40	12.53	13.66	15.16	16.66	18.17	19.67	21.17	24.18
9.56†	10.13†	11.06†	11.81†	12.94†	14.06†	15.19†	16.32†	17.82†	19.32†	20.82†	22.32†	23.82†	26.82†
5.67	6.43	7.20	7.96	9.10	10.24	11.37	12.50	14.01	15.52	17.02	18.53	20.03	23.04
8.98	9.73	10.49	11.24	12.37	13.49	14.62	15.75	17.25	18.75	20.25	21.75	23.25	26.25
....	....	....	6.15	7.32	8.47	9.61	10.75	12.27	13.78	15.29	16.80	18.31	21.32
8.41	9.16	9.91	10.67	11.80	12.92	14.05	15.18	16.68	18.18	19.68	21.18	22.68	25.69
....	....	....	6.31	7.48	8.63	9.78	10.92	12.44	13.96	15.47	16.98	18.49	21.50
5.83	6.60	7.37	8.13	9.27	10.41	11.55	12.68	14.19	15.70	17.20	18.71	20.21	23.22
7.03	7.79	8.55	9.31	10.44	11.57	12.70	13.83	15.34	16.84	18.35	19.85	21.35	24.36
8.20	8.96	9.71	10.47	11.60	12.73	13.85	14.98	16.48	17.99	19.49	20.99	22.49	25.50
8.78	9.54	10.29	11.04	12.17	13.30	14.43	15.55	17.05	18.56	20.06	21.56	23.06	26.06
9.36†	10.11†	10.86†	11.62†	12.74†	13.87†	15.00†	16.12†	17.62†	19.13†	20.63†	22.13†	23.62†	26.63†
9.93‡	10.68‡	11.43‡	12.19‡	13.31‡	14.44‡	15.56‡	16.69‡	18.19‡	19.69‡	21.19‡	22.69‡	24.19‡	27.20‡
....	....	....	....	....	....	....	....	9.00	10.55	12.10	13.63	15.16	18.19
....	....	5.68	6.47	7.64	8.80	9.95	11.69	12.61	14.13	15.64	17.15	18.66	21.68
8.58	9.34	10.09	10.85	11.97	13.10	14.23	15.36	16.86	18.36	19.86	21.37	22.87	25.87
9.16†	9.91†	10.67†	11.42†	12.55†	13.67†	14.80†	15.93†	17.43†	18.93†	20.43†	21.94†	23.44†	26.44†
5.99	6.77	7.54	8.30	9.44	10.58	11.72	12.85	14.36	15.87	17.38	18.89	20.39	23.40
9.74‡	10.49‡	11.24‡	11.99‡	13.12‡	14.24‡	15.37‡	16.50‡	18.00‡	19.50‡	21.00‡	22.50‡	24.00‡	27.01‡
7.20	7.96	8.72	9.48	10.62	11.75	12.88	14.01	15.52	17.02	18.53	20.03	21.53	24.54
....	....	....	....	....	7.10	8.29	9.45	11.00	12.53	14.06	15.58	17.09	20.12
8.38	9.13	9.89	10.64	11.77	12.90	14.03	15.16	16.67	18.17	19.67	21.17	22.68	25.68
....	....	5.84	6.63	7.80	8.97	10.12	11.26	12.79	14.30	15.82	17.33	18.84	21.85

L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	.60



SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

L Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts					
				Driver		Driven										
3500	1750	1160	No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	124L	150L	187L	210L	225L	240L	
....	750	497	2.33	12L	1.432	28L	3.342	....	1.090	.72	....	3.63	5.55	6.69	7.45†	8.20†
1458	729	483	2.40	30L	3.581	72L	8.594	4.86	2.66	1.79	....	....	....	....	....	....
1458	729	483	2.40	20L	2.387	48L	5.730	3.46	1.80	1.20	....	....	....	....	4.57	5.37
....	729	483	2.40	10L	1.194	24L	2.865	....	.910	.600	2.89‡	4.24‡	6.14‡	7.28‡	8.03‡	8.78‡
1400	700	464	2.50	24L	2.865	60L	7.162	4.06	2.15	1.44	....	....	....	....	....	....
1400	700	464	2.50	16L	1.910	40L	4.775	2.83	1.45	.97	....	....	....	5.05	5.83	6.60
....	700	464	2.50	12L	1.432	30L	3.581	....	1.090	.72	....	3.40‡	5.34‡	6.43‡	7.24‡	8.00‡
1361	681	451	2.57	28L	3.342	72L	8.594	4.61	2.49	1.67	....	....	....	....	....	....
....	673	446	2.60	10L	1.194	26L	3.104	....	.910	.600	2.64§	4.02‡	5.93‡	7.07‡	7.83‡	8.58‡
1333	667	442	2.63	32L	3.820	84L	10.027	5.10	2.83	1.91	....	....	....	....	....	....
1312	656	435	2.67	18L	2.149	48L	5.730	3.15	1.62	1.08	....	....	....	....	4.73	5.53
....	656	435	2.67	12L	1.432	32L	3.820	....	1.090	.72	....	3.15†	5.12†	6.27†	7.03†	7.79†
1283	642	425	2.73	22L	2.626	60L	7.162	3.77	1.98	1.32	....	....	....	....	....	....
1264	632	419	2.77	26L	3.104	72L	8.594	4.35	2.32	1.56	....	....	....	....	....	....
1250	625	414	2.80	30L	3.581	84L	10.027	4.86	2.66	1.79	....	....	....	....	....	....
....	625	414	2.80	10L	1.194	28L	3.342	....	.910	.600	....	3.79‡	5.72‡	6.86‡	7.62‡	8.38‡
1225	613	406	2.86	14L	1.671	40L	4.775	2.490	1.27	.85	....	....	....	5.21	5.99	6.77
1167	583	387	3.00	28L	3.342	84L	10.027	4.61	2.49	1.67	....	....	....	....	....	....
1167	583	387	3.00	24L	2.865	72L	8.594	4.06	2.15	1.44	....	....	....	....	....	....
1167	583	387	3.00	20L	2.387	60L	7.162	3.46	1.80	1.20	....	....	....	....	....	....
1167	583	387	3.00	16L	1.910	48L	5.730	2.83	1.45	.97	....	....	....	....	4.88	5.68
....	583	387	3.00	10L	1.194	30L	3.581	....	.910	.600	....	3.56§	5.50‡	6.65‡	7.41‡	8.17‡
....	547	363	3.20	10L	1.194	32L	3.820	....	.910	.600	....	3.30§	5.28‡	6.44‡	7.20‡	7.96‡
1684	542	359	3.23	26L	3.104	84L	10.027	4.35	2.32	1.56	....	....	....	....	....	....
1069	535	354	3.27	22L	2.626	72L	8.594	3.77	1.98	1.32	....	....	....	....	....	....
1050	525	348	3.33	18L	2.149	60L	7.162	3.15	1.62	1.08	....	....	....	....	....	....
....	525	348	3.33	12L	1.432	40L	4.775	....	1.090	.72	....	....	4.17†	5.37‡	6.15‡	6.93‡
1021	510	338	3.43	14L	1.671	48L	5.730	2.490	1.27	.85	....	....	....	4.19‡	5.03‡	5.84‡
1000	500	331	3.50	24L	2.865	84L	10.027	4.06	2.15	1.44	....	....	....	....	....	....
972	486	322	3.60	20L	2.387	72L	8.594	3.46	1.80	1.20	....	....	....	....	....	....
933	467	309	3.75	16L	1.910	60L	7.162	2.83	1.45	.97	....	....	....	....	....	....
916	458	304	3.82	22L	2.626	84L	10.027	3.77	1.98	1.32	....	....	....	....	....	....
875	438	290	4.00	18L	2.149	72L	8.594	3.15	1.62	1.08	....	....	....	....	....	....
....	438	290	4.00	12L	1.432	48L	5.730	....	1.090	.72	....	....	....	4.34‡	5.18‡	5.99‡
....	438	290	4.00	10L	1.194	40L	4.775	....	.910	.600	....	....	4.33§	5.53§	6.32‡	7.09‡
833	417	276	4.20	20L	2.387	84L	10.027	3.46	1.80	1.20	....	....	....	....	....	....
817	408	271	4.29	14L	1.671	60L	7.162	2.490	1.27	.85	....	....	....	....	....	....
778	389	258	4.50	16L	1.910	72L	8.594	2.83	1.45	.97	....	....	....	....	....	....
749	375	248	4.67	18L	2.149	84L	10.027	3.15	1.62	1.08	....	....	....	....	....	....
....	365	242	4.80	10L	1.194	48L	5.730	....	.910	.600	....	....	....	4.48§	5.33§	6.15§
....	350	232	5.00	12L	1.432	60L	7.162	....	1.090	.72	....	....	....	....	....	....
681	340	226	5.14	14L	1.671	72L	8.594	2.490	1.27	.85	....	....	....	....	....	....
667	333	221	5.25	16L	1.671	84L	10.027	2.83	1.45	.97	....	....	....	....	....	....
583	292	193	6.00	14L	1.671	84L	10.027	2.490	1.27	.85	....	....	....	....	....	....
....	292	193	6.00	12L	1.432	72L	8.594	....	1.090	.72	....	....	....	....	....	....
....	292	193	6.00	10L	1.194	60L	7.162	....	.910	.600	....	....	....	....	....	4.38*
....	250	166	7.00	12L	1.432	84L	10.027	....	1.090	.72	....	....	....	....	....	....
....	243	161	7.20	10L	1.194	72L	8.594	....	.910	.600	....	....	....	....	....	....
....	208	138	8.40	10L	1.194	84L	10.027	....	.910	.600	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† ‡ § * See Teeth in Mesh table on opposite page.

▼ Flanges Required on both pulleys.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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L Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts													
255L	270L	285L	300L	322L	345L	367L	390L	420L	450L	480L	510L	540L	600L
8.96†	9.71†	10.47†	11.22†	12.35†	13.48†	14.61†	15.73†	17.24†	18.74†	20.24†	21.74†	23.24†	26.25†
....	....	....	....	....	7.26	8.44	9.62	11.16	12.70	14.23	15.75	17.27	20.29
6.15	6.93	7.70	8.47	9.61	10.75	11.89	13.03	14.54	16.05	17.56	19.06	20.57	23.58
9.54‡	10.29‡	11.04‡	11.80‡	12.92‡	14.05‡	15.18‡	16.30‡	17.81‡	19.31‡	20.81‡	22.31‡	23.81‡	26.81‡
....	....	5.99	6.79	7.97	9.13	10.28	11.43	12.96	14.48	15.99	17.50	19.01	22.03
7.37	8.13	8.89	9.65	10.79	11.92	13.06	14.19	15.70	17.20	18.71	20.21	21.72	24.72
8.76†	9.51†	10.27†	11.02†	12.15†	13.28†	14.41†	15.54†	17.04†	18.54†	20.05†	21.55†	23.05†	26.05†
....	....	....	....	6.19	7.41	8.60	9.78	11.33	12.86	14.39	15.92	17.44	20.47
9.34‡	10.09‡	10.85‡	11.60‡	12.73‡	13.85‡	14.98‡	16.11‡	17.61‡	19.11‡	20.62‡	22.12‡	23.62‡	26.62‡
....	....	....	....	....	....	....	8.02	9.63	11.20	12.75	14.30	15.83	18.88
6.31	7.09	7.87	8.64	9.78	10.92	12.06	13.20	14.72	16.23	17.73	19.24	20.75	23.76
8.55†	9.31†	10.07†	10.82†	11.95†	13.08†	14.21†	15.34†	16.85†	18.35†	19.85†	21.36†	22.86†	25.86†
....	5.33	6.15	6.95	8.13	9.29	10.45	11.60	13.18	14.65	16.16	17.68	19.19	22.21♥
....	....	....	....	6.34	7.56	8.76	9.94	11.49	13.03	14.56	16.09	17.61	20.64
....	....	....	....	....	....	....	8.17	9.78	11.36	12.92	14.46	16.00	19.05
9.14‡	9.89‡	10.65‡	11.40‡	12.53‡	13.66‡	14.79‡	15.91‡	17.42‡	18.92‡	20.42‡	21.92‡	23.43‡	26.43‡
7.54	8.30	9.06	9.83	10.96	12.10	13.23	14.36	15.87	17.38	18.89	20.39	21.89	24.90
....	....	....	....	....	....	7.08	8.33	9.94	11.52	13.08	14.63	16.16	19.22
....	....	....	....	6.49	7.72	8.92	10.10	11.65	13.20	14.73	16.26	17.78	20.81
....	5.48	6.30	7.10	8.29	9.46	10.61	11.77	13.29	14.82	16.34	17.85	19.36♥	22.38♥
6.47	7.26	8.03	8.80	9.95	11.10	12.24	13.37	14.89	16.40	17.91	19.42	20.93	23.94
8.93‡	9.69‡	10.44‡	11.20‡	12.33‡	13.46‡	14.59‡	15.72‡	17.22‡	18.73‡	20.23‡	21.73‡	23.23‡	26.24‡
8.72‡	9.48‡	10.24‡	11.00‡	12.13‡	13.26‡	14.39‡	15.52‡	17.02‡	18.53‡	20.03‡	21.54‡	23.04‡	26.04‡
....	....	....	....	....	....	7.22	8.48	10.10	11.68	13.24	14.79	16.33	19.39
....	....	....	....	6.64	7.87	9.07	10.26	11.82	13.36	14.90	16.43	17.95	20.99
....	5.62	6.45	7.26	8.45	9.62	10.78	11.93	13.46	14.99	16.51	18.02♥	19.54♥	22.56♥
7.70†	8.47†	9.23†	10.00†	11.14†	12.27†	13.40†	14.54†	16.05†	17.56†	19.06†	20.57†	22.08†	25.08†
6.63†	7.42†	8.19†	8.97†	10.12	11.26	12.41	13.55	15.06	16.57	18.08	19.59	21.10	24.11
....	....	....	....	....	....	7.37	8.63	10.25	11.84	13.40	14.95	16.49	19.56
....	....	....	....	6.78	8.02	9.23	10.42	11.98	13.53	15.06	16.59	18.12	21.16
4.91	5.77	6.60	7.41	8.60	9.78	10.94	12.10	13.63	15.16	16.68♥	18.20♥	19.71♥	22.73♥
....	....	....	....	....	....	7.51	8.78	10.40	12.00	13.56	15.12	16.66	19.18
....	....	....	5.61†	6.93	8.18	9.39	10.58	12.14	13.69	15.23	16.76	18.29♥	21.33♥
6.79‡	7.58‡	8.36‡	9.13‡	10.28†	11.43†	12.58†	13.72†	15.23†	16.75†	18.25†	19.77†	21.28†	24.29†
7.87‡	8.64‡	9.40‡	10.17‡	11.31‡	12.44‡	13.58‡	14.72‡	16.23‡	17.73‡	19.24‡	20.75‡	22.25‡	25.26‡
....	....	....	....	....	....	7.66	8.93	10.56	12.15	13.72	15.28	16.82	19.89♥
5.05‡	5.92‡	6.75‡	7.57‡	8.76†	9.94†	11.11†	12.26†	13.80♥	15.33♥	16.85♥	18.37♥	19.83♥	22.91♥
....	....	....	5.75‡	7.08†	8.33†	9.54	10.73	12.30	13.85	15.40♥	16.93♥	18.46♥	21.50♥
....	....	....	....	6.45†	7.80†	9.08	10.71	12.31	13.88	15.44	17.00	18.56	21.63♥
6.95	7.74‡	8.52‡	9.29‡	10.45‡	11.60‡	12.75‡	13.89‡	15.41‡	16.92‡	18.44‡	19.95‡	21.46‡	24.47‡
5.19§	6.07‡	6.90‡	7.72‡	8.92‡	10.10‡	11.27‡	12.43‡♥	13.97‡♥	15.49‡♥	17.02‡♥	18.54‡♥	20.06‡♥	23.08‡♥
....	....	....	5.89‡	7.22‡	8.48†	9.70†	10.89†	12.46†	14.02‡♥	15.56‡♥	17.10‡♥	18.63‡♥	21.67‡♥
....	....	....	....	....	6.58‡	7.94†	9.22†	10.87	12.47	14.04	15.60♥	17.15♥	20.23♥
....	....	....	....	....	6.72‡	8.09†	9.37†	11.02†	12.62†	14.20‡♥	15.76‡♥	17.32‡♥	20.39♥
....	....	....	6.03§	7.37	8.63‡	9.85‡	11.05‡	12.62‡♥	14.18‡♥	15.73‡♥	17.26‡♥	18.79‡♥	21.84‡♥
5.33§	6.21§	7.05§	7.87§	9.08§	10.26‡♥	11.43‡♥	12.59‡♥	14.13‡♥	15.66‡♥	17.19‡♥	18.71‡♥	20.23‡♥	23.26‡♥
....	....	....	....	....	6.86§	8.23§	9.52‡	11.17‡♥	12.78‡♥	14.36‡♥	15.93‡♥	17.48‡♥	20.56‡♥
....	....	....	6.17♣	7.51§	8.78§	10.00§♥	11.20§♥	12.78‡♥	14.34‡♥	15.89‡♥	17.43‡♥	18.96‡♥	22.01‡♥
....	....	....	....	....	7.00§	8.37§	9.67§♥	11.32§♥	12.93§♥	14.52‡♥	16.09‡♥	17.64‡♥	20.73‡♥

L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80
‡	4	.60

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
§	3	.40
♣	2	.20

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

H Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
				Driver		Driven											
3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	240H	270H	300H	330H	360H	390H	420H
....	1750	1160		1.00	48H	7.839	48H	7.639	13.84	9.55
3500	1750	1160	1.00	40H	6.366	40H	6.366	20.08	11.79	8.03	....	....	....	....	8.01	9.51	11.01
3500	1750	1160	1.00	32H	5.093	32H	5.093	17.40	9.60	6.48	....	5.51	7.01	8.51	10.01	11.51	13.01
3500	1750	1160	1.00	30H	4.775	30H	4.775	16.59	9.03	6.08	....	6.01	7.51	9.01	10.51	12.01	13.51
3500	1750	1160	1.00	28H	4.456	28H	4.456	15.74	8.46	5.68	5.01	6.51	8.01	9.51	11.01	12.51	14.01
3500	1750	1160	1.00	26H	4.138	26H	4.138	14.80	7.88	5.28	5.51	7.01	8.51	10.01	11.51	13.01	14.51
3500	1750	1160	1.00	24H	3.820	24H	3.820	13.82	7.30	4.89	6.01	7.51	9.01	10.51	12.01	13.51	15.01
3500	1750	1160	1.00	22H	3.501	22H	3.501	12.84	6.71	4.48	6.51	8.01	9.51	11.01	12.51	14.01	15.51
3500	1750	1160	1.00	20H	3.183	20H	3.183	11.77◊	6.11	4.08	7.01	8.51	10.01	11.51	13.01	14.51	16.01
3500	1750	1160	1.00	18H	2.865	18H	2.865	10.71◊	5.52◊	3.68	7.51	9.01	10.51	12.01	13.51	15.01	16.51
....	1750	1160	1.00	16H	2.546	16H	2.546	....	4.91◊	3.27◊	8.01	9.51	11.01	12.51	14.01	15.51	17.01
....	....	1160	1.00	14H	2.228	14H	2.228	....	....	2.86◊	8.51	10.01	11.51	13.01	14.51	16.01	17.51
3281	1641	1087	1.07	30H	4.775	32H	5.093	16.59	9.03	6.08	....	5.75	7.25	8.76	10.26	11.76	13.26
3267	1633	1083	1.07	28H	4.456	30H	4.775	15.74	8.46	5.68	....	6.25	7.26	9.26	10.76	12.26	13.76
3250	1625	1077	1.08	26H	4.138	28H	4.456	14.80	7.88	5.28	5.25	6.75	8.26	9.76	11.26	12.76	14.26
3231	1615	1071	1.08	24H	3.820	26H	4.138	13.82	7.30	4.89	5.76	7.26	8.76	10.26	11.76	13.26	14.76
3208	1604	1063	1.09	22H	3.501	24H	3.820	12.84	6.71	4.48	6.26	7.76	9.26	10.76	12.26	13.76	15.26
3182	1591	1055	1.10	20H	3.183	22H	3.501	11.77◊	6.11	4.08	6.76	8.26	9.76	11.26	12.76	14.26	15.76
3150	1575	1044	1.11	18H	2.865	20H	3.183	10.71◊	5.52◊	3.68	7.26	8.76	10.26	11.76	13.26	14.76	16.26
....	1556	1031	1.13	16H	2.546	18H	2.865	....	4.91◊	3.27◊	7.76	9.26	10.76	12.26	13.76	15.26	16.76
3063	1531	1015	1.14	28H	4.456	32H	5.093	15.74	8.46	5.68	....	6.00	7.50	9.00	10.50	12.01	13.51
....	....	1015	1.14	14H	2.228	16H	2.546	....	....	2.86◊	8.26	9.76	11.26	12.76	14.26	15.76	17.26
3033	1517	1005	1.15	26H	4.138	30H	4.775	14.80	7.88	5.28	5.00	6.50	8.00	9.50	11.00	12.51	14.01
3000	1500	994	1.17	24H	3.820	28H	4.456	13.82	7.30	4.89	5.50	7.00	8.50	10.00	11.50	13.01	14.51
2962	1481	982	1.18	22H	3.501	26H	4.138	12.84	6.71	4.48	6.00	7.50	9.00	10.50	12.01	13.50	15.01
2917	1458	967	1.20	40H	6.366	48H	7.639	20.08	11.79	8.03	....	....	....	....	....	8.48	9.99
2917	1458	967	1.20	20H	3.183	24H	3.820	11.77◊	6.11	4.08	6.50	8.00	9.50	11.00	12.51	14.01	15.51
2864	1432	949	1.22	18H	2.865	22H	3.501	10.71◊	5.52◊	3.68	7.01	8.50	10.00	11.51	13.01	14.51	16.01
2844	1422	943	1.23	26H	4.138	32H	5.093	14.80	7.88	5.28	....	6.24	7.74	9.24	10.75	12.25	13.75
....	1400	928	1.25	48H	7.639	60H	9.549	....	13.84	9.55	....	....	....	....	....	....	....
2800	1400	928	1.25	32H	5.093	40H	6.366	17.40	9.60	6.48	....	....	....	7.43	8.98	10.49	11.99
2800	1400	928	1.25	24H	3.820	30H	4.775	13.82	7.30	4.89	5.24	6.40	8.24	9.75	11.25	12.75	14.25
....	1400	928	1.25	16H	2.546	20H	3.183	....	4.91◊	3.27◊	7.50	9.00	10.50	12.01	13.51	15.01	16.51
2750	1375	911	1.27	22H	3.501	28H	4.456	12.84	6.71	4.48	5.74	7.24	8.74	10.25	11.75	13.25	14.75
....	....	902	1.29	14H	2.228	18H	2.865	....	....	2.86◊	8.00	9.50	11.01	12.51	14.01	15.51	17.02
2692	1346	892	1.30	20H	3.183	26H	4.138	11.77◊	6.11	4.08	6.24	7.74	9.25	10.75	12.25	13.75	15.26
2625	1313	870	1.33	30H	4.775	40H	6.366	16.59	9.03	6.08	....	....	6.20	7.72	9.22	10.73	12.24
2625	1313	870	1.33	24H	3.820	32H	5.093	13.82	7.30	4.89	4.97	6.48	7.98	9.49	10.99	12.49	14.00
2625	1313	870	1.33	18H	2.865	24H	3.820	10.71◊	5.52◊	3.68	6.74	8.24	9.75	11.25	12.75	14.25	15.76
2567	1283	851	1.36	22H	3.501	30H	4.775	12.84	6.71	4.48	5.47	6.98	8.48	9.99	11.49	12.99	14.50
....	1273	844	1.38	16H	2.546	22H	3.501	....	4.91◊	3.27◊	7.24	8.75	10.25	11.75	13.25	14.75	16.25
2500	1250	829	1.40	20H	3.183	28H	4.456	11.77◊	6.11	4.08	5.97	7.48	8.99	10.49	11.99	13.49	15.00
2450	1225	812	1.43	28H	4.456	40H	6.366	15.74	8.46	5.68	....	....	6.50	7.95	9.46	10.97	12.47
....	....	812	1.43	14H	2.228	20H	3.183	....	....	2.86◊	7.75	9.25	10.75	12.25	13.75	15.25	16.75
2423	1212	803	1.44	18H	2.865	26H	4.138	10.71◊	5.52◊	3.68	6.48	7.98	9.49	10.99	12.49	14.00	15.50
2406	1203	798	1.45	22H	3.501	32H	5.093	12.84	6.71	4.48	5.20	6.71	8.22	9.73	11.23	12.73	14.24

Δ HP ratings are for conventional speed-reduction drives.

▼ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◊ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H
10.51	12.01	13.51	15.01	16.51	18.01	19.51	21.01	23.01	25.51	28.01	30.51	33.01	38.01	43.01	50.51	58.01	73.01
12.51	14.01	15.51	17.01	18.51	20.01	21.51	23.01	25.01	27.51	30.01	32.51	35.01	40.01	45.01	52.51	60.01	75.01
14.51	16.01	17.51	19.01	20.51	22.01	23.51	25.01	27.01	29.51	32.01	34.51	37.01	42.01	47.01	54.51	62.01	77.01
15.01	16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.51	30.01	32.51	35.01	37.51	42.51	47.51	55.01	62.51	77.51
15.51	17.01	18.51	20.01	21.51	23.01	24.51	26.01	28.01	30.51	33.01	35.51	38.01	43.01	48.01	55.51	63.01	78.01
16.01	17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.51	31.01	33.51	36.01	38.51	43.51	48.51	56.01	63.51	78.51
16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.01	29.01	31.51	34.01	36.51	39.01	44.01	49.01	56.51	64.01	79.01
17.01	18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.01	30.01	32.51	35.01	37.51	40.01	45.01	50.01	57.51	65.01	80.01
18.01	19.51	21.01	22.51	24.01	25.51	27.01	28.51	30.51	33.01	35.51	38.01	40.51	45.51	50.51	58.01	65.51	80.51
18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.01	31.01	33.51	36.01	38.51	41.01	46.01	51.01	58.51	66.01	81.01
19.01	20.51	22.01	23.51	25.01	26.51	28.01	29.51	31.51	34.01	36.51	39.01	41.51	46.51	51.51	59.01	66.51	81.51
14.76	16.26	17.76	19.26	20.76	22.26	23.76	25.26	27.26	29.76	32.26	34.76	37.26	42.26	47.26	54.76	62.26	77.26
15.26	16.76	18.26	19.76	21.26	22.76	24.26	25.76	27.76	30.26	32.76	35.26	37.76	42.76	47.76	55.26	62.76	77.76
15.76	17.26	18.76	20.26	21.76	23.26	24.76	26.26	28.26	30.76	33.26	35.76	38.26	43.26	48.26	55.76	63.26	78.26
16.26	17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.76	31.26	33.76	36.26	38.76	43.76	48.76	56.26	63.76	78.76
16.76	18.26	19.76	21.26	22.76	24.26	25.76	27.26	29.26	31.76	34.26	36.76	39.26	44.26	49.26	56.76	64.26	79.26
17.26	18.76	20.36	21.76	23.26	24.76	26.26	27.76	29.76	32.26	34.76	37.26	39.76	44.76	49.76	57.26	64.76	79.76
17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.26	30.26	32.76	35.26	37.76	40.26	45.26	50.26	57.76	62.26	80.26
18.26	19.76	21.26	22.76	24.26	25.76	27.26	28.76	30.76	33.26	35.76	38.26	40.76	45.76	50.76	58.26	65.76	80.76
15.01	16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.51	30.01	32.51	35.01	37.51	42.51	47.51	55.01	62.51	77.51
18.76	20.26	21.76	23.36	24.76	26.26	27.76	29.26	31.26	33.76	36.26	38.76	41.26	46.26	51.26	58.76	66.26	81.26
15.51	17.01	18.51	20.01	21.51	23.01	24.51	26.01	28.01	30.51	33.01	35.51	38.01	43.01	48.01	55.51	63.01	78.01
16.01	17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.51	31.01	33.51	36.01	38.51	43.51	48.51	56.01	63.51	78.51
16.51	18.01	19.51	21.01	22.51	24.01	25.51	27.01	29.01	31.51	34.01	36.51	39.01	44.01	49.01	56.51	64.01	79.01
11.49	12.99	14.49	16.00	17.50	19.00	20.50	22.00	24.00	26.51	29.00	31.50	34.00	39.01	44.00	51.51	59.01	74.01
17.01	18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
17.51	19.01	20.51	22.01	23.51	25.01	26.51	28.01	30.01	32.51	35.01	37.50	40.01	45.01	50.01	57.51	65.01	80.01
15.24	16.75	18.25	19.76	21.25	22.76	24.26	25.76	27.76	30.25	32.76	35.26	37.76	42.76	47.76	55.26	62.76	77.76
8.95	10.46	11.97	13.47	14.98	16.48	17.98	19.48	21.49	23.99	26.49	28.99	31.50	36.50	41.50	49.00	56.50	71.50
13.49	15.00	16.50	18.00	19.50	21.00	22.50	24.00	26.00	28.50	31.00	33.50	36.01	41.00	46.01	53.51	61.01	76.01
15.75	17.25	18.80	20.25	21.76	23.26	24.76	26.25	28.26	30.76	33.26	35.75	38.26	43.26	48.26	55.76	63.26	78.26
18.01	19.51	21.01	22.51	24.01	25.51	27.01	28.51	30.51	33.01	35.51	38.01	40.51	45.51	50.51	58.01	65.51	80.51
16.25	17.75	19.25	20.76	22.26	23.76	25.26	26.76	28.76	31.26	33.76	36.26	38.76	43.76	48.76	56.26	63.76	78.76
18.51	20.01	21.51	23.01	24.51	26.01	27.51	29.01	31.01	33.51	36.01	38.51	41.01	46.01	51.01	58.51	66.01	81.01
16.75	18.25	19.76	21.26	22.76	24.26	25.76	27.26	29.26	31.76	34.26	36.76	39.26	44.26	49.26	56.76	64.26	79.26
13.74	15.24	16.74	18.24	19.74	21.25	22.75	24.25	26.25	28.75	31.25	33.75	36.25	41.25	46.25	53.75	61.26	76.26
15.50	17.00	18.50	20.00	21.50	23.00	24.50	26.00	28.00	30.50	33.00	35.51	38.01	43.00	48.01	55.51	63.01	78.01
17.25	18.80	20.26	21.76	23.26	24.76	26.25	27.76	29.76	32.25	34.76	37.26	39.76	44.76	49.76	57.26	64.76	79.76
16.00	17.50	19.00	20.50	22.00	23.50	25.00	26.50	28.50	31.00	33.51	36.01	38.50	43.51	48.51	56.01	63.51	78.52
17.76	19.26	20.76	22.26	23.76	25.26	26.76	28.26	30.26	32.76	35.26	37.76	40.26	45.26	50.26	57.76	65.26	80.26
16.50	18.00	19.50	21.00	22.50	24.00	25.50	27.00	29.01	31.50	34.01	36.50	39.01	44.00	49.01	56.51	64.01	79.01
13.98	15.48	16.98	18.48	19.99	21.49	22.99	24.49	26.49	29.00	31.50	34.00	36.50	41.50	46.50	54.00	61.50	76.50
18.26	19.76	21.26	22.76	24.26	25.76	27.26	28.75	30.76	33.26	35.76	38.26	40.77	45.76	50.76	58.26	65.76	80.76
17.00	18.50	20.00	21.50	23.00	24.50	26.01	27.50	29.51	32.01	34.51	37.01	39.51	44.51	49.51	57.01	64.51	79.51
15.74	17.24	18.74	20.24	21.75	23.18	24.75	26.25	28.25	30.75	33.25	35.75	38.25	43.25	48.25	55.76	63.25	78.26

H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

H Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
				Driver		Driven											
3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	240H	270H	300H	330H	360H	390H	420H
....	1167	773		1.50	48H	7.639	72H	11.459	13.84	9.55
2333	1167	773	1.50	40H	6.366	60H	9.549	20.08	11.79	8.03	....	....	....	....	....	....	8.35
2333	1167	773	1.50	32H	5.093	48H	7.639	17.40	9.60	6.48	....	....	....	....	7.90	9.42	10.93
2333	1167	773	1.50	20H	3.183	30H	4.775	11.770	6.11	4.08	5.70	7.21	8.72	10.23	11.73	13.24	14.74
....	1167	773	1.50	16H	2.546	24H	3.820	....	4.910	3.270	6.98	8.48	9.99	11.49	12.99	14.50	16.00
2275	1138	754	1.54	26H	4.138	40H	6.366	14.80	7.88	5.28	....	....	6.66	8.18	9.69	11.20	12.71
2250	1125	746	1.56	18H	2.865	28H	4.456	10.710	5.520	3.68	6.21	7.72	9.22	10.73	12.23	13.74	15.24
....	....	738	1.57	14H	2.228	22H	3.501	....	....	2.860	7.48	8.99	10.49	11.99	13.50	15.00	16.50
2188	1094	725	1.60	30H	4.775	48H	7.639	16.59	9.03	6.08	....	....	....	6.60	8.13	9.65	11.17
2188	1094	725	1.60	20H	3.183	32H	5.093	11.770	6.11	4.08	5.42	6.94	8.45	9.96	11.47	12.97	14.48
....	1077	714	1.63	16H	2.546	26H	4.138	....	4.910	3.270	6.71	8.22	9.73	11.23	12.73	14.24	15.74
2100	1050	696	1.67	24H	3.820	40H	6.366	13.82	7.30	4.89	....	....	6.89	8.41	9.93	11.44	12.95
2100	1050	696	1.67	18H	2.865	30H	4.775	10.710	5.520	3.68	5.93	7.45	8.96	10.46	11.97	13.48	14.98
2042	1021	677	1.71	28H	4.456	48H	7.639	15.74	8.46	5.68	....	....	....	6.82	8.35	9.88	11.40
....	....	677	1.71	14H	2.228	24H	3.820	....	....	2.860	7.22	8.72	10.23	11.74	13.24	14.74	16.24
....	1000	663	1.75	48H	7.639	84H	13.369	....	13.84	9.55	....	....	....	....	....	....	....
....	1000	663	1.75	16H	2.546	28H	4.456	....	4.910	3.270	6.44	7.95	9.46	10.97	12.47	13.98	15.48
1969	985	652	1.78	18H	2.865	32H	5.093	10.710	5.520	3.68	5.65	7.17	8.69	10.20	11.71	13.21	14.72
1944	972	644	1.80	40H	6.366	72H	11.459	20.08	11.79	8.03	....	....	....	....	....	....	....
1925	963	638	1.82	22H	3.501	40H	6.366	12.84	6.71	4.48	....	5.57	7.11	8.64	10.16	11.67	13.18
1896	948	628	1.85	26H	4.138	48H	7.639	14.80	7.88	5.28	....	....	....	7.04	8.58	10.11	11.63
....	....	625	1.86	14H	2.226	26H	4.138	....	....	2.860	6.94	8.45	9.96	11.47	12.97	14.48	15.98
1867	933	619	1.88	32H	5.093	60H	9.549	17.40	9.60	6.48	....	....	....	....	....	7.68	9.24
....	933	619	1.88	16H	2.546	30H	4.775	....	4.910	3.270	6.16	7.68	9.19	10.70	12.21	13.71	15.22
....	875	580	2.00	48H	7.639	96H	15.279	....	13.84	9.55	....	....	....	....	....	....	....
1750	875	580	2.00	30H	4.775	60H	9.549	16.59	9.03	6.08	....	....	....	....	....	7.89	9.45
1750	875	580	2.00	24H	3.820	48H	7.639	13.82	7.30	4.89	....	....	....	7.25	8.80	10.33	11.85
1750	875	580	2.00	20H	3.183	40H	6.366	11.770	6.11	4.08	....	5.78	7.33	8.86	10.39	11.90	13.41
....	875	580	2.00	16H	2.546	32H	5.093	....	4.910	3.270	5.87	7.40	8.92	10.43	11.94	13.45	14.96
....	....	580	2.00	14H	2.228	28H	4.456	....	....	2.660	6.67	8.18	9.69	11.20	12.71	14.22	15.72
1667	833	552	2.10	40H	6.366	84H	13.369	20.08	11.79	8.03	....	....	....	....	....	....	....
1633	817	541	2.14	28H	4.456	60H	9.549	15.74	8.46	5.68	....	....	....	....	....	8.10	9.67
....	....	541	2.14	14H	2.228	30H	4.775	....	....	2.860	6.38	7.90	9.42	10.94	12.44	13.95	15.46
1604	802	532	2.18	22H	3.501	48H	7.639	12.84	6.71	4.48	....	....	....	7.47	9.02	10.55	12.08
1575	788	522	2.22	18H	2.865	40H	6.366	10.710	5.520	3.68	....	6.00	7.55	9.09	10.61	12.13	13.65
1556	778	516	2.25	32H	5.093	72H	11.459	17.40	9.60	6.48	....	....	....	....	....	....	....
....	....	507	2.29	14H	2.228	32H	5.093	....	....	2.860	6.09	7.62	9.15	10.66	12.18	13.68	15.19
1517	758	503	2.31	26H	4.138	60H	9.549	14.80	7.88	5.28	....	....	....	....	....	8.31	9.88
1458	729	483	2.40	40H	6.366	96H	15.279	20.08	11.79	8.03	....	....	....	....	....	....	....
1458	729	483	2.40	30H	4.775	72H	11.459	16.59	9.03	6.08	....	....	....	....	....	....	....
1458	729	483	2.40	20H	3.183	48H	7.639	11.770	6.11	4.08	....	....	6.09	7.68	9.24	10.78	12.31
....	700	464	2.50	48H	7.639	120H	19.099	....	13.84	9.55	....	....	....	....	....	....	....
1400	700	464	2.50	24H	3.820	60H	9.549	13.82	7.30	4.89	....	....	....	....	....	8.52	10.10
....	700	464	2.50	16H	2.546	40H	6.366	....	4.910	3.270	....	6.21	7.77	9.31	10.84	12.36	13.88
1361	681	451	2.57	28H	4.456	72H	11.459	15.74	8.46	5.68	....	....	....	....	....	....	....
1333	667	442	2.63	32H	5.093	84H	13.369	17.40	9.60	6.48	....	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.

▼ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts

450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H
....	....	10.33	11.85	13.37	14.88	16.40	17.91	19.92	22.43	24.94	27.44	29.95	34.96	39.96	47.47	54.98	69.99
9.88	11.40	12.91	14.42	15.93	17.44	18.94	20.45	22.45	24.96	27.46	29.97	32.47	37.48	42.48	49.98	57.49	72.49
12.44	13.95	15.46	16.97	18.47	19.97	21.47	22.97	24.98	27.48	29.98	32.49	34.99	39.99	44.99	52.50	60.00	74.99
16.24	17.74	19.24	20.75	22.25	23.75	25.25	26.75	28.75	31.25	33.75	36.25	38.75	43.76	48.76	56.27	63.75	78.76
17.50	19.00	20.50	22.00	23.50	25.00	26.50	28.00	30.01	32.51	35.01	37.50	40.01	45.02	50.01	57.51	65.01	80.01
14.21	15.72	17.22	18.73	20.23	21.73	23.23	24.74	26.74	29.24	31.74	34.24	36.75	41.75	46.75	54.25	61.75	76.75
16.74	18.24	19.75	21.25	22.75	24.25	25.75	27.25	29.25	31.75	34.25	36.49	39.25	44.26	49.25	56.75	64.26	79.26
18.00	19.50	21.00	22.50	24.00	25.50	27.01	28.50	30.51	33.01	35.51	38.01	40.51	45.51	50.50	58.02	65.51	80.51
12.68	14.19	15.69	17.20	18.70	20.21	21.71	23.22	25.22	27.72	30.23	32.13	35.23	40.24	45.24	52.74	60.25	75.25
15.98	17.48	18.99	20.49	21.99	23.49	24.99	26.49	28.50	31.00	33.50	36.00	38.50	43.50	48.50	56.00	63.52	78.51
17.24	18.74	20.25	21.75	23.18	24.75	26.25	27.75	29.75	32.25	34.75	37.25	39.76	44.76	49.76	57.25	64.76	79.77
14.45	15.96	17.46	18.97	20.47	21.97	23.48	24.98	26.98	29.48	31.99	34.49	36.99	41.99	47.00	54.50	62.00	77.01
16.48	17.96	19.49	20.99	22.49	23.99	25.49	26.99	29.00	31.50	34.00	36.50	39.00	44.00	49.00	56.51	64.01	79.01
12.91	14.42	15.93	17.44	18.94	20.45	21.95	23.46	25.46	27.97	30.47	32.97	35.48	40.48	45.48	52.99	60.49	75.49
17.74	19.24	20.75	22.25	23.75	25.25	26.75	28.25	30.25	32.75	35.25	37.75	40.25	45.26	50.27	57.76	65.25	80.26
....	....	....	....	11.65	13.19	14.73	16.25	18.28	20.81	23.33	25.85	28.34	33.39	38.40	45.92	53.43	68.45
16.98	18.49	19.99	21.49	22.99	24.49	26.00	27.49	29.50	32.00	34.50	37.00	39.50	44.50	49.50	57.01	64.50	79.51
16.22	17.73	19.23	20.73	22.23	23.73	25.24	26.74	28.74	31.24	33.74	36.24	38.75	43.75	48.75	56.25	63.75	78.77
....	9.67	11.22	12.75	14.28	15.81	17.32	18.84	20.85	23.37	25.88	28.40	30.90	35.92	40.93	48.44	55.95	70.97
14.69	16.20	17.70	19.21	20.71	22.21	23.72	25.22	27.22	29.73	32.23	34.73	37.23	42.24	47.24	54.74	62.25	77.25
13.14	14.65	16.16	17.67	19.18	20.68	22.19	23.69	25.70	28.21	30.71	33.21	35.72	40.72	45.73	53.24	60.74	75.74
17.49	18.99	20.49	21.99	23.49	24.99	26.49	27.99	30.00	32.50	35.00	37.50	40.00	45.00	50.00	57.50	65.00	80.01
10.78	12.31	13.83	15.35	16.86	18.37	19.88	21.39	23.40	25.91	28.42	30.93	33.44	38.45	43.45	50.96	58.47	73.48
16.72	18.23	19.73	21.23	22.73	24.24	25.74	27.24	29.24	31.74	34.24	36.75	39.25	44.25	49.25	56.75	64.26	79.25
....	....	....	....	....	....	12.94	14.50	16.56	19.12	21.67	24.21	26.74	31.78	36.81	44.35	51.87	66.90
11.00	12.53	14.06	15.58	17.09	18.61	20.35	21.63	23.64	26.15	28.66	31.17	33.68	38.69	43.70	51.21	58.71	73.73
13.37	14.89	16.40	17.91	19.42	20.92	22.43	23.93	25.94	28.45	30.95	33.46	35.96	40.97	45.97	53.48	60.98	75.99
14.92	16.43	17.94	19.45	20.95	22.45	23.96	25.46	27.47	29.97	32.47	34.97	37.48	42.48	47.48	54.99	62.49	77.50
16.46	17.97	19.47	20.87	22.48	23.98	25.48	26.98	28.99	31.48	33.99	36.49	38.99	43.99	49.00	56.50	64.00	79.01
17.22	18.73	20.23	21.73	23.23	24.74	26.24	27.74	29.74	32.24	34.74	37.25	39.75	44.75	49.75	57.25	64.75	79.75
....	....	....	10.94	12.51	14.07	15.61	17.15	19.19	21.73	24.26	26.78	29.30	34.33	39.35	46.88	54.40	69.42
11.21	12.75	14.28	15.80	17.32	18.84	20.35	21.86	23.87	26.39	28.90	31.41	33.91	38.93	43.94	51.45	58.95	73.97
16.96	18.47	19.97	21.47	22.98	24.46	25.98	27.48	29.48	31.99	34.49	36.99	39.49	44.49	49.50	57.01	64.50	79.50
13.60	15.12	16.66	18.14	19.65	21.16	22.67	24.17	26.18	28.69	31.19	33.70	36.20	41.21	46.22	53.72	61.23	76.24
15.16	16.67	18.18	19.68	21.19	22.69	24.20	25.70	27.71	30.21	32.71	35.22	37.72	42.73	47.73	55.23	62.74	77.74
8.93	10.52	12.08	13.63	15.17	16.70	18.23	19.75	21.78	24.30	26.82	29.34	31.85	36.87	41.89	49.41	56.92	71.94
16.70	18.20	19.70	21.21	22.72	24.22	25.72	27.22	29.23	31.73	34.23	36.73	39.24	44.24	49.24	56.75	64.25	79.25
11.44	12.97	14.51	16.03	17.55	19.07	20.58	22.09	24.11	26.62	29.13	31.64	34.15	39.17	44.18	51.69	59.20	74.21
....	....	....	....	....	12.18	13.78	15.35	17.43	20.01	22.57	25.11	27.65	32.71	37.75	45.29	52.82	67.87
9.14	10.76	12.30	13.85	15.39	16.93	18.45	19.98	22.01	24.53	27.05	29.57	32.09	37.11	42.13	49.65	57.16	72.19
13.83	15.35	16.86	18.37	19.89	21.39	22.90	24.41	26.42	28.92	31.43	33.94	36.44	41.45	46.46	53.97	61.47	76.48
....	....	....	....	....	....	....	....	....	15.43	18.09	20.71	23.30	28.43	33.52	41.11	48.67	63.75
11.65	13.20	14.73	16.25	17.77	19.30	20.81	22.33	24.34	26.86	29.37	31.88	34.39	39.41	44.42	51.93	59.44	74.46
15.39	16.90	18.41	19.92	21.43	22.93	24.44	25.94	27.95	30.45	32.96	35.46	37.97	42.97	47.97	55.48	62.98	77.99
9.34	10.94	12.51	14.07	15.61	17.15	18.68	20.20	22.23	24.76	27.28	29.80	32.32	37.35	42.37	49.89	57.40	72.43
....	....	10.15	11.77	13.36	14.93	16.49	18.03	20.08	22.63	25.17	27.70	30.23	35.22	40.30	47.83	55.36	70.39

H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

H Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ			Nominal C.D. Using DYNA-SYNC Belts						
				Driver		Driven											
3500	1750	1160		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	3500	1750	1160	240H	270H	300H	330H	360H	390H	420H
1312	656	435		2.67	18H	2.865	48H	7.639	10.71◇	5.52◇	3.68	6.30	7.89	9.45	11.00
1283	642	425	2.73	22H	3.501	60H	9.549	12.84	6.71	4.48	7.10	8.73	10.31
1264	632	419	2.77	26H	4.138	72H	11.459	14.80	7.88	5.28	....	....	....	....	....	....	....
1250	625	414	2.80	30H	4.775	84H	13.369	16.59	9.03	6.08	....	....	....	....	....	....	....
....	....	406	2.86	14H	2.228	40H	6.366	....	....	2.86◇	4.80†	6.42†	7.99†	9.53	11.06	12.59	14.11
1167	583	387	3.00	40H	6.366	120H	19.099	20.08	11.79	8.03	....	....	....	....	....	....	....
1167	583	387	3.00	32H	5.093	96H	15.279	17.40	9.60	6.48	....	....	....	....	....	....	....
1167	583	387	3.00	28H	4.456	84H	13.369	15.74	8.46	5.68	....	....	....	....	....	....	....
1167	583	387	3.00	24H	3.820	72H	11.459	13.82	7.30	4.89	....	....	....	....	....	....	8.08
1167	583	387	3.00	20H	3.183	60H	9.549	11.77◇	6.11	4.08	....	....	....	....	7.30	8.93	10.52
....	583	387	3.00	16H	2.546	48H	7.639	....	4.91◇	3.27◇	....	....	6.50	8.10	9.67	11.22	12.75
1094	547	363	3.20	30H	4.775	96H	15.279	16.59	9.03	6.08	....	....	....	....	....	....	....
1084	542	359	3.23	26H	4.138	84H	13.369	14.80	7.88	5.28	....	....	....	....	....	....	....
1069	535	354	3.27	22H	3.501	72H	11.459	12.84	6.71	4.48	....	....	....	....	....	....	8.28
1050	525	348	3.33	18H	2.865	60H	9.549	10.71◇	5.52◇	3.68	....	....	....	....	7.50	9.14	10.77
1021	510	338	3.43	28H	4.456	96H	15.279	15.74	8.46	5.68	....	....	....	....	....	....	....
....	....	338	3.43	14H	2.228	48H	7.639	....	....	2.86◇	....	....	6.70†	8.95†	9.88†	11.44†	12.98
1000	500	331	3.50	24H	3.820	84H	13.369	13.82	7.30	4.89	....	....	....	....	....	....	....
972	486	322	3.60	20H	3.183	72H	11.459	11.77◇	6.11	4.08	....	....	....	....	....	....	8.47
948	474	314	3.69	26H	4.138	96H	15.279	14.80	7.88	5.28	....	....	....	....	....	....	....
933	467	309	3.75	32H	5.093	120H	19.099	17.40	9.60	6.48	....	....	....	....	....	....	....
....	467	309	3.75	16H	2.546	60H	9.549	....	4.91◇	3.27◇	....	....	....	....	7.69†	9.34†	10.94
916	458	304	3.82	22H	3.501	84H	13.369	12.84	6.71	4.48	....	....	....	....	....	....	....
875	438	290	4.00	30H	4.775	120H	19.099	16.59	9.03	6.08	....	....	....	....	....	....	....
875	438	290	4.00	24H	3.820	96H	15.279	13.82	7.30	4.89	....	....	....	....	....	....	....
875	438	290	4.00	18H	2.865	72H	11.459	10.71◇	5.52◇	3.68	....	....	....	....	....	....	8.67
833	417	276	4.20	20H	3.183	84H	13.369	11.77◇	6.11	4.08	....	....	....	....	....	....	....
817	408	271	4.29	28H	4.456	120H	19.099	15.74	8.46	5.68	....	....	....	....	....	....	....
....	....	271	4.29	14H	2.228	60H	9.549	....	....	2.86◇	....	....	....	6.12‡	7.89‡	9.55†	11.15†
802	401	266	4.36	22H	3.501	96H	15.279	12.84	6.71	4.48	....	....	....	....	....	....	....
....	389	258	4.50	16H	2.546	72H	11.459	....	4.91◇	3.27◇	....	....	....	....	....	....	8.86†
758	379	251	4.62	26H	4.138	120H	19.099	14.80	7.88	5.28	....	....	....	....	....	....	....
749	375	248	4.67	18H	2.865	84H	13.369	10.71◇	5.52	3.68	....	....	....	....	....	....	....
729	365	242	4.80	20H	3.183	96H	15.279	11.71◇	6.11	4.08	....	....	....	....	....	....	....
700	350	232	5.00	24H	3.820	120H	19.099	13.82	7.30	4.89	....	....	....	....	....	....	....
....	....	226	5.14	14H	2.228	72H	11.459	....	....	2.86◇	....	....	....	....	....	7.22§	9.05‡
....	333	221	5.25	16H	2.546	84H	13.369	....	4.91◇	3.27◇	....	....	....	....	....	....	....
656	323	217	5.33	18H	2.865	96H	15.279	10.71◇	5.52◇	3.68	....	....	....	....	....	....	....
642	321	213	5.45	22H	3.501	120H	19.099	12.84	6.71	4.48	....	....	....	....	....	....	....
583	294	193	6.00	20H	3.183	120H	19.099	11.77◇	6.11	4.08	....	....	....	....	....	....	....
....	292	193	6.00	16H	2.546	96H	15.219	....	4.91◇	3.27◇	....	....	....	....	....	....	....
....	....	193	6.00	14H	2.228	84H	13.369	....	....	2.86◇	....	....	....	....	....	....	....
525	262	174	6.67	18H	2.865	120H	19.099	10.71◇	5.52◇	3.68◇	....	....	....	....	....	....	....
....	....	169	6.86	14H	2.228	96H	15.279	....	....	3.27◇	....	....	....	....	....	....	....
....	233	155	7.50	16H	2.546	120H	19.099	....	4.91◇	2.86◇	....	....	....	....	....	....	....
....	....	135	8.57	14H	2.228	120H	19.099	....	....	....	....	....	....	....	....	....	....

Δ HP ratings are for conventional speed-reduction drives.
 For Speed-Up Drives refer to page PT10-17.

† ‡ § See Teeth in Mesh table on opposite page.
 ♥ Flanges Required on both pulleys.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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H Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts																		
450H	480H	510H	540H	570H	600H	630H	660H	700H	750H	800H	850H	900H	1000H	1100H	1250H	1400H	1700H	
14.06	15.58	17.09	18.61	20.35	21.63	23.14	24.64	26.65	29.16	31.67	34.18	36.68	41.69	46.70	54.21	61.71	76.73	
11.87	13.42	14.95	16.48	18.00	19.52	21.04	22.56	24.58	27.09	29.61♥	32.12♥	34.63♥	39.65♥	44.66♥	52.17♥	56.69♥	74.70♥	
9.55	11.15	12.73	14.29	15.83	17.37	18.90	20.43	22.46	24.99	27.52	30.04	32.55	37.58♥	42.60♥	50.13♥	57.64♥	72.67♥	
.....	
15.62	17.13	18.65	20.15	21.66	23.17	23.67	26.18	28.19	30.69	33.20	35.70	38.21	43.21	48.22	55.72	63.23	78.24	
.....	.....	.....	.....	.....	.....	.....	.....	13.47	16.24	18.92	21.56	24.16	29.31	34.42	42.03	49.60	64.70♥
.....	.....	.....	.....	11.34	12.99	14.81	16.20	18.29	20.88	23.45	26.01	28.55	33.62	38.67	46.23♥	53.77♥	68.62♥
.....	.....	10.55	12.18	13.78	15.36	16.92	18.47	20.52	23.08	25.62	28.16	30.69	35.73♥	40.77♥	48.31♥	55.83♥	70.87♥
9.75	11.36	12.94	14.50	16.05	17.59	19.13	20.65	22.69	26.22	27.75	30.27	32.79♥	37.82♥	42.84♥	50.37♥	57.88♥	72.91♥	
12.09	13.63	15.17	16.70	18.23	19.75	21.27	22.79	24.81	27.32♥	29.84♥	32.35♥	38.87♥	39.88♥	44.90♥	52.42♥	59.93♥	94.95♥	
14.28	15.80	17.32	18.84	20.35	21.86	23.37	24.88	26.89	29.40	31.91	34.42	36.92	41.93	46.94	54.45	81.96	76.97	
.....	.....	.....	.....	11.54	13.20	14.81	16.41	18.51	21.10	23.67	26.23	28.79	33.85	38.90♥	46.46♥	54.00♥	69.06♥
.....	9.05	10.75	12.39	13.99	15.57	17.13	18.68	20.74	23.30	25.85	28.38	30.91	35.96♥	41.00♥	48.54♥	56.07♥	71.11♥	
9.95	11.56	13.15	14.72	16.27	17.81	19.35	20.88	22.91	25.45	27.98	30.50♥	33.02♥	38.05♥	43.08♥	50.61♥	58.12♥	73.15♥	
12.30	13.85	15.39	16.93	18.46	19.98	21.50	23.02♥	25.04♥	27.56♥	30.07♥	32.59♥	35.10♥	40.12♥	45.14♥	52.66♥	60.17♥	75.19♥	
.....	.....	.....	.....	11.73	13.40	15.02	16.62	18.72	21.32	23.89	26.45	29.00	34.08	39.13♥	46.70♥	54.24♥	69.30♥
14.51	16.03	17.55	19.07	20.58	22.09	23.61	25.11	27.13	29.64	32.15	34.68	37.16	42.17	47.18	54.70	62.20	77.22♥	
.....	9.24	10.95	12.59	14.20	15.78	17.35	18.90	20.96	23.52	26.07	28.61	31.14	36.20	41.23♥	48.78♥	56.35♥	71.35♥	
10.15	11.77	13.36	14.93	16.49	18.03	19.57	21.10	23.14	25.68♥	28.21♥	30.73♥	33.25♥	38.29♥	43.31♥	50.84♥	58.36♥	73.40♥	
.....	10.19	11.93	13.60	15.23	16.83	18.93	21.53	24.11	26.67	29.23	34.31♥	39.36♥	46.93♥	54.48♥	69.54♥
.....	.....	.....	.....	.....	.....	.....	.....	14.25	17.05	19.75	22.40	25.02	30.19	35.31	42.94	50.52	65.64♥
12.51	14.07	15.61	17.15	18.86	21.20	21.73♥	23.26♥	25.27♥	27.79♥	30.31♥	32.82♥	35.34	40.36♥	45.38♥	52.90♥	60.41♥	75.43♥	
.....	9.43	11.14	12.79	14.40	15.99	17.56	19.12	21.18	23.74	26.30	28.84♥	31.37♥	36.43♥	41.47♥	49.01♥	56.54♥	71.59♥	
.....	.....	.....	.....	.....	.....	.....	.....	14.44	17.25	19.96	22.61	25.23	30.41	35.53	43.16	50.75	65.87♥
.....	17.03	19.14	21.75	24.33	27.00	29.45	34.53♥	39.59♥	47.16	54.71	69.78♥
10.35	11.98	13.57	15.14	16.70	18.25	19.79	21.32	23.36♥	25.90♥	28.44♥	30.96♥	33.48♥	38.52♥	43.55♥	51.08♥	58.60♥	73.64♥	
.....	9.62	11.34	12.99	14.61	16.20	17.77	19.33	21.40	23.97	26.52♥	29.06♥	31.60♥	36.66♥	41.70♥	49.25♥	56.78♥	71.83♥	
.....	.....	.....	.....	.....	.....	.....	.....	14.63	17.45	20.16	22.82	25.45	30.63	35.76	43.39	50.98	66.11♥
12.73†	14.29†	15.83†	17.37	21.95♥	18.90♥	20.43♥	23.47♥	25.50♥	28.02♥	30.54♥	33.06♥	35.57♥	40.60♥	45.61♥	53.14	60.65	75.67♥	
.....	.....	.....	10.57	12.32	14.00	15.63	17.24	19.36	21.96	24.55	27.12	29.67♥	34.76♥	39.82♥	47.39♥	54.94♥	70.01♥
10.55†	12.1†	13.78	15.36	16.92	18.47	20.01	21.55♥	23.59♥	26.13♥	28.66♥	31.19♥	33.72♥	38.75♥	43.78♥	51.32	58.84	73.88♥	
.....	10.00†	.....	.....	.....	.....	.....	12.43	14.82	17.65	20.37	23.03	25.66	30.85	35.98	43.62	51.21	66.34♥
.....	9.81†	11.54	13.20	14.82	15.41	17.99	19.55	21.62	24.19	26.74	29.29	31.83♥	36.89♥	41.93♥	49.48	57.02	72.07
.....	10.75	12.51	14.20	15.84	17.45	19.57	22.18	24.77	27.34	29.90	34.99	40.05	47.63	55.18	70.25
.....	.....	.....	.....	.....	.....	.....	.....	15.02	17.84	20.57	23.24	25.87	31.06	36.20	43.84	51.44	66.57♥
10.75†	12.39†	13.99†	15.57†	17.13†	18.69†♥	20.23†♥	21.77♥	23.81♥	26.35♥	28.89♥	31.42♥	33.95♥	38.99♥	44.02	51.55	59.08	74.12	
.....	10.00†	11.73†	13.40	15.02	16.62	18.20	19.76	21.84	24.39	26.96	29.51	32.08	37.12	42.16	49.72	57.25	72.31	
.....	.....	.....	10.94†	12.71†	14.40	16.04	17.65	19.78	22.39	24.98	27.56	30.12	35.21	40.28	47.86	55.41	70.49
.....	12.79	15.21	18.04	20.78	23.45	26.08	31.28	36.42	44.07	51.67	66.81
.....	12.98†	15.40	18.24	20.98	23.66	26.29	31.50	36.64	44.29	51.90	67.04
.....	.....	9.20§	11.13‡	12.90	14.59†	16.24†	17.86	19.99	22.61	25.20	27.78	30.34	35.44	40.51	48.09	55.65	70.73
8.30§	10.19‡	11.93‡	13.60‡	15.23‡	16.83‡	18.41♥	19.98†	22.05†	24.63†	27.19	29.74	32.28	37.34	42.39	49.95	57.49	72.55	
.....	.....	9.37§	11.31‡	13.09‡	.....	.....	13.16†	15.59†	18.44	21.18	23.86	26.51	31.71	36.86	44.52	52.13	67.27
.....	.....	.....	.....	.....	14.79‡	16.44†	18.07†	20.19†	22.82†	25.42†	27.99†	30.56†	35.66	40.74	48.32	55.88	70.96
.....	.....	.....	.....	.....	.....	.....	13.64‡	15.78†	18.64†	21.38†	24.07	26.72	31.93	37.08	44.74	52.35	67.50
.....	.....	.....	.....	.....	.....	11.49§	13.53§	15.97‡	18.83‡	21.59†	24.28†	26.93†	32.14†	37.30	44.97	52.58	67.74

H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Teeth in Mesh graph (T.I.M.)

Table Symbol	No. of Teeth in Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth in Mesh In Small Pulley	Factor
‡	4	.60
§	3	.40



SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

XH Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ		
				Driver		Driven				
1750	1160	870		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	1750	1160	870
1750	1160	870		1.00	40XH	11.141	40XH	11.141	22.22	17.44	13.79
1750	1160	870	1.00	32XH	8.913	32XH	8.913	19.87	14.57	11.29
1750	1160	870	1.00	30XH	8.356	30XH	8.356	19.06	13.79	10.63
1750	1160	870	1.00	28XH	7.799	28XH	7.799	18.16	12.97	9.97
1750	1160	870	1.00	26XH	7.241	26XH	7.241	17.17	12.13	9.29
1750	1160	870	1.00	24XH	6.685	24XH	6.685	16.14	11.29	8.61
1750	1160	870	1.00	22XH	6.127	22XH	6.127	15.03	10.41	7.92
1750	1160	870	1.00	20XH	5.570	20XH	5.570	13.85	9.51	7.23
1750	1160	870	1.00	18XH	5.013	18XH	5.013	....	8.61	6.52
1641	1088	816	1.07	30XH	8.356	32XH	8.913	19.06	13.79	10.63
1633	1083	812	1.07	28XH	7.799	30XH	8.356	18.16	12.97	9.97
1625	1077	808	1.08	26XH	7.241	28XH	7.799	17.17	12.13	9.29
1615	1071	803	1.08	24XH	6.685	26XH	7.241	16.14	11.29	8.61
1604	1063	798	1.09	22XH	6.127	24XH	6.685	15.03	10.41	7.92
1591	1055	791	1.10	20XH	5.570	22XH	6.127	13.85	9.51	7.23
1531	1044	783	1.11	18XH	5.013	20XH	5.570	....	8.61	6.52
1517	1015	761	1.14	28XH	7.799	32XH	8.913	18.16	12.97	9.97
1500	1005	754	1.15	26XH	7.241	30XH	8.356	17.17	12.13	9.29
1500	994	746	1.17	24XH	6.685	28XH	7.799	16.14	11.29	8.61
1481	982	736	1.18	22XH	6.127	26XH	7.241	15.03	10.41	7.92
1458	967	725	1.20	40XH	11.141	48XH	13.369	22.22	17.44	13.79
1458	967	725	1.20	20XH	5.570	24XH	6.685	13.85	9.51	7.23
1422	949	712	1.22	18XH	5.013	22XH	6.127	....	8.61	6.52
1400	943	707	1.23	26XH	7.241	32XH	8.913	17.17	12.13	9.29
1400	928	696	1.25	32XH	8.913	40XH	11.141	19.87	14.57	11.29
1400	928	696	1.25	24XH	6.685	30XH	8.356	16.14	11.29	8.61
1375	911	684	1.27	22XH	6.127	28XH	7.799	15.03	10.41	7.92
1346	892	669	1.30	20XH	5.570	26XH	7.241	13.85	9.51	7.23
1313	870	653	1.33	30XH	8.356	40XH	11.141	19.06	13.79	10.63
1313	870	653	1.33	24XH	6.685	32XH	8.913	16.14	11.29	8.61
1283	870	653	1.33	18XH	5.013	24XH	6.685	....	8.61	6.52
1250	851	638	1.36	22XH	6.127	30XH	8.356	15.03	10.41	7.92
1250	829	621	1.40	20XH	5.570	28XH	7.799	13.85	9.51	7.23
1225	812	609	1.43	28XH	7.799	40XH	11.141	18.16	12.97	9.97
1225	803	602	1.44	18XH	5.013	26XH	7.241	....	8.61	6.52
1203	798	598	1.45	22XH	6.127	32XH	8.913	15.03	10.41	7.92
1167	773	580	1.50	40XH	11.141	60XH	16.711	22.22	17.44	13.79
1167	773	580	1.50	32XH	8.913	48XH	13.369	19.87	14.57	11.29
1167	773	580	1.50	20XH	5.570	30XH	8.356	13.85	9.51	7.23
1138	754	566	1.54	26XH	7.241	40XH	11.141	17.17	12.13	9.29
1094	746	559	1.56	18XH	5.013	28XH	7.799	....	8.61	6.52
1094	725	544	1.60	30XH	8.356	48XH	13.369	19.06	13.79	10.63
1094	725	544	1.60	20XH	5.570	32XH	8.913	13.85	9.51	7.23
1050	696	522	1.67	24XH	6.685	40XH	11.141	16.14	11.29	8.61
1050	696	522	1.67	18XH	5.013	30XH	8.356	....	8.61	6.52
1021	677	508	1.71	28XH	7.799	48XH	13.369	18.16	12.97	9.97
972	653	489	1.78	18XH	5.013	32XH	8.913	....	8.61	6.52
972	644	483	1.80	40XH	11.141	72XH	20.054	22.22	17.44	13.79
963	638	479	1.82	22XH	6.127	40XH	11.141	15.03	10.41	7.92

Δ HP ratings are for conventional speed-reduction drives.

▼ Flanges Required on both pulleys.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts											
507XH	560XH	630XH	700XH	770XH	840XH	980XH	1120XH	1260XH	1400XH	1540XH	1750XH
....	....	14.00	17.50	21.00	24.50	31.50	38.50	45.50	52.50	59.50	70.00
11.37	14.00	17.50	21.00	24.50	28.00	35.00	42.00	49.00	56.00	63.00	73.50
12.25	14.87	18.37	21.87	25.37	28.87	35.87	42.87	49.87	56.87	63.87	74.37
13.12	15.75	19.25	22.75	26.25	29.75	36.75	43.75	50.75	57.75	64.75	75.25
14.00	16.62	20.12	23.62	27.12	30.62	37.62	44.62	51.62	58.62	65.62	76.12
14.87	17.50	21.00	24.50	28.00	31.50	38.50	45.50	52.50	59.50	66.50	77.00
15.75	18.37	21.87	25.37	28.87	32.37	39.37	46.37	53.37	60.37	67.37	77.87
16.62	19.25	22.75	26.25	29.75	33.25	40.25	47.25	54.25	61.25	68.25	78.75
17.50	20.12	23.62	27.12	30.62	34.12	41.12	48.12	55.12	62.12	69.12	79.62
11.80	14.43	17.93	21.43	24.93	28.43	35.43	42.43	49.43	56.43	63.43	73.93
12.68	15.31	18.81	22.31	25.81	29.31	36.31	43.31	50.31	57.31	64.31	74.81
13.56	16.18	19.68	23.18	26.68	30.18	37.18	44.18	51.18	58.18	65.18	75.68
14.43	17.06	20.56	24.06	27.56	31.06	38.06	45.06	52.06	59.06	66.06	76.56
15.31	17.93	21.43	24.93	28.43	31.93	38.93	45.93	52.93	59.93	66.93	77.43
16.18	18.81	22.31	25.81	29.31	32.81	39.81	46.81	53.81	60.81	67.81	78.31
17.06	19.68	23.18	26.68	30.18	33.68	40.68	47.68	54.68	61.68	68.68	79.18
12.23	14.86	18.36	21.86	25.36	28.87	35.87	42.87	49.87	56.87	63.87	74.37
13.11	15.74	19.24	22.74	26.24	29.74	36.74	43.74	50.74	57.74	64.74	75.24
13.98	16.61	20.11	23.61	27.12	30.62	37.62	44.62	51.62	58.62	65.62	76.12
14.66	17.49	20.99	24.49	27.99	31.49	38.49	45.49	52.49	59.49	66.49	76.99
....	....	....	15.71	19.21	22.72	29.72	36.73	43.73	50.73	57.74	68.24
15.74	18.36	21.86	25.36	28.87	32.37	39.37	46.37	53.37	60.37	67.37	77.87
16.61	19.24	22.74	26.24	29.74	33.24	40.24	47.24	54.24	61.24	68.24	78.74
12.66	15.29	18.79	22.29	25.79	29.30	36.30	43.30	50.30	57.30	64.30	74.80
....	....	....	15.71	19.21	22.72	29.72	36.73	43.73	50.73	57.74	68.24
13.53	16.16	19.67	23.17	26.67	30.17	37.17	44.18	51.18	58.18	65.18	75.68
14.41	17.04	20.54	24.04	27.55	31.05	38.05	45.05	52.05	59.05	66.05	76.55
15.29	17.91	21.42	24.92	28.42	31.92	38.92	45.93	52.93	59.93	66.93	77.43
....	....	....	15.71	19.21	22.72	29.72	36.73	43.73	50.73	57.74	68.24
13.07	15.71	19.21	22.72	26.22	29.72	36.73	43.73	50.73	57.74	64.74	75.24
16.16	18.79	22.29	25.79	29.30	32.80	39.80	46.80	53.80	60.80	67.80	78.30
13.95	16.58	20.09	23.59	27.10	30.60	37.60	44.61	51.61	58.61	65.61	76.11
14.83	17.46	20.97	24.47	27.97	31.48	38.48	45.48	52.48	59.49	66.49	76.99
10.36	13.01	16.54	20.05	23.56	27.07	34.08	41.09	48.09	55.10	62.10	72.60
15.71	18.34	21.84	25.35	28.85	32.35	39.35	46.36	53.36	60.36	67.36	77.86
13.49	16.12	19.63	23.14	26.65	30.15	37.16	44.16	51.16	58.17	65.17	75.67
....	....	....	....	16.38	19.93	26.98	34.01	41.03	48.04	55.05	65.56
....	....	13.82	17.35	20.88	24.39	31.42	38.43	45.44	52.45	59.45	69.96
14.37	17.00	20.51	24.02	27.52	31.03	38.03	45.04	52.04	59.04	66.04	76.55
10.76	13.42	16.95	20.47	23.98	27.49	34.50	41.50	48.52	55.52	62.53	73.03
15.24	17.88	21.39	24.89	28.40	31.90	38.91	45.91	52.91	59.92	66.92	77.42
....	....	14.21	17.76	21.29	24.81	31.83	38.85	45.86	52.87	59.88	70.39
13.89	16.54	20.05	23.56	27.07	30.58	37.58	44.59	51.59	58.60	65.60	76.10
11.15	13.82	17.35	20.88	24.39	27.91	34.92	41.94	48.94	55.95	62.96	73.46
14.78	17.42	20.93	24.44	27.95	31.45	38.45	45.46	52.47	59.47	66.47	76.98
....	11.02	14.60	18.16	21.69	25.22	32.25	39.27	46.29	53.30	60.31	70.82
14.30	16.95	20.47	23.98	27.49	31.00	38.01	45.02	52.02	59.03	66.03	76.53
....	....	....	....	....	16.90	24.08	31.18	38.24	45.28	52.31	62.84
11.54	14.21	17.76	21.29	24.81	28.32	35.34	42.36	49.37	56.38	63.38	73.89

XH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8	9	10	11	12	13	14
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400

Shaded area indicates stock belt widths.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



XH Stock Drive Selections

Driven Speeds for Motor Speeds of			Speed Ratio	Pulley Combination				HP for a 1 Wide Belt for Motor Speeds of Δ		
				Driver		Driven				
1750	1160	870		No. of Teeth	Pitch Diam.	No. of Teeth	Pitch Diam.	1750	1160	870
948	628	471		1.85	26XH	7.241	48XH	13.369	17.17	12.13
933	618	464	1.88	32XH	8.913	60XH	16.711	19.87	14.57	11.29
875	580	435	2.00	30XH	8.356	60XH	16.711	19.06	13.79	10.63
875	580	435	2.00	24XH	6.685	48XH	13.369	16.140	11.29	8.61
875	580	435	2.00	20XH	5.570	40XH	11.141	13.850	9.510	7.230
833	552	414	2.10	40XH	11.141	84XH	23.396	22.22	17.44	13.79
817	541	407	2.14	28XH	7.799	60XH	16.711	18.16	12.97	9.97
802	531	399	2.18	22XH	6.127	48XH	13.369	15.030	10.410	7.92
....	523	392	2.22	18XH	5.013	40XH	11.141	....	8.610	6.520
778	516	387	2.25	32XH	8.913	72XH	20.054	19.87	14.57	11.29
758	502	377	2.31	26XH	7.241	60XH	16.711	17.17	12.13	9.29
729	483	363	2.40	40XH	11.141	96XH	26.738	22.22	17.44	13.79
729	483	363	2.40	30XH	8.356	72XH	20.054	19.06	13.79	10.63
729	483	363	2.40	20XH	5.570	48XH	13.369	13.850	9.510	7.230
700	464	348	2.50	24XH	6.685	60XH	16.711	16.140	11.29	8.61
681	451	339	2.57	28XH	7.799	72XH	20.054	18.16	12.97	9.97
667	442	331	2.63	32XH	8.913	84XH	23.396	19.87	14.57	11.29
....	434	326	2.67	18XH	5.013	48XH	13.369	....	8.610	6.520
642	425	319	2.73	22XH	6.127	60XH	16.711	15.030	10.410	7.92
632	419	314	2.77	26XH	7.241	72XH	20.054	17.17	12.13	9.29
625	414	311	2.80	30XH	8.356	84XH	23.396	19.06	13.79	10.63
583	387	290	3.00	40XH	11.141	120XH	33.423	22.22	17.44	13.79
583	387	290	3.00	32XH	8.913	96XH	26.738	19.87	14.57	11.29
583	387	290	3.00	28XH	7.799	84XH	23.396	18.16	12.97	9.97
583	387	290	3.00	24XH	6.685	72XH	20.054	16.140	11.29	8.61
583	387	290	3.00	20XH	5.570	60XH	16.711	13.850	9.510	7.230
547	363	272	3.20	30XH	8.356	96XH	26.738	19.06	13.79	10.63
542	359	269	3.23	26XH	7.241	84XH	23.396	17.17	12.13	9.29
535	355	266	3.27	22XH	6.127	72XH	20.054	15.030	10.410	7.92
....	348	261	3.33	18XH	5.013	60XH	16.711	....	8.610	6.520
510	338	254	3.43	28XH	7.799	96XH	26.738	18.16	12.97	9.97
500	331	249	3.50	24XH	6.685	84XH	23.396	16.140	11.29	8.61
486	322	242	3.60	20XH	5.570	72XH	20.054	13.850	9.510	7.230
474	314	236	3.69	26XH	7.241	96XH	26.738	17.17	12.13	9.29
467	309	232	3.75	32XH	8.913	120XH	33.423	19.87	14.57	11.29
458	304	228	3.82	22XH	6.127	84XH	23.396	15.030	10.41	7.92
438	290	218	4.00	30XH	8.356	120XH	33.423	19.06	13.790	10.63
438	290	218	4.00	24XH	6.685	98XH	26.738	16.140	11.29	8.61
....	290	218	4.00	18XH	5.013	72XH	20.054	....	8.610	6.520
416	276	207	4.20	20XH	5.570	84XH	23.396	13.850	9.510	7.230
408	270	203	4.29	28XH	7.799	120XH	33.423	18.16	12.97	9.97
401	266	200	4.36	22XH	6.127	96XH	26.738	15.030	10.410	7.92
379	251	188	4.62	26XH	7.241	120XH	33.423	17.17	12.13	9.29
....	249	186	4.67	18XH	5.013	84XH	23.396	....	8.610	6.520
365	242	181	4.80	20XH	5.570	96XH	26.738	13.850	9.510	7.230
350	232	174	5.00	24XH	6.685	120XH	33.423	16.140	11.29	8.61
....	217	162	5.33	18XH	5.013	96XH	26.738	....	8.610	6.520
321	212	159	5.45	22XH	6.127	120XH	33.423	15.03	10.410	7.92
292	193	145	6.00	20XH	5.570	120XH	33.423	13.850	9.510	7.230
....	174	130	6.67	18XH	5.013	120XH	33.423	....	8.610	6.520

Δ HP ratings are for conventional speed-reduction drives.

For Speed-Up Drives refer to page PT10-17.

◇ Pulley Diameter is below recommended minimum. A reduction in belt life should be expected. Suggest alternate drive selection, whenever possible.

† † See Teeth in Mesh table on opposite page.

♥ Flanges Required on both pulleys.

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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XH Stock Drive Selections

Nominal Center Distance Using DYNA-SYNC Belts												
507XH	560XH	630XH	700XH	770XH	840XH	980XH	1120XH	1260XH	1400XH	1540XH	1750XH	
....	11.39	14.99	18.55	22.10	25.63	32.66	39.69	46.71	53.72	60.73	71.24	
....	14.34	17.95	21.52	28.60	35.66	42.69	49.72	56.74	67.26	
....	14.71	18.33	21.91	29.01	36.07	43.11	50.13	57.15	67.68♥	
....	11.77	15.38	18.95	22.50	26.03	33.08	40.11	47.13	54.14♥	61.15♥	71.67♥	
11.92	14.60	18.16	21.69	25.22	28.74	35.76	42.78	49.79	56.80	63.81	74.32	
....	20.97	28.20	35.34	42.43	49.49	60.06	
....	15.08	18.71	22.30	29.41	36.47	43.52	50.55	57.57	68.10♥	
....	12.14	15.77	19.34	22.90	26.43	33.49	40.52	47.54	54.56♥	61.58♥	72.09♥	
12.30	14.99	18.55	22.10	25.83	29.15	36.18	43.20	50.21	57.23	64.24	74.75	
....	18.40	25.64	32.77	39.86	46.91	53.96	64.50	
....	15.45	19.09	22.69	29.81	36.88	43.93	50.96	57.99♥	68.52♥	
....	25.02	32.30	39.47	46.59	57.21	
....	15.03	18.76	26.02	33.17	40.26	47.32	54.37	64.92	
....	12.51	16.15	19.73	23.29	26.84	33.90	40.94	47.96♥	54.98♥	62.00♥	72.52♥	
....	15.82	19.47	23.07	30.20	37.28	44.34	51.38	58.41♥	68.94♥	
....	15.38	19.13	26.41	33.56	40.66	47.73	54.78	65.33♥	
10.05	12.87	16.53	20.12	23.69	27.24	34.30	41.35♥	48.38♥	55.40♥	62.42♥	72.94♥	
....	12.41	16.19	19.85	23.46	30.60	37.69	44.74	51.79♥	58.82♥	69.36♥	
....	15.74	19.50	26.79	33.95	41.06	48.13	55.19	65.75♥	
....	22.81	30.11	37.30	44.42	51.51	62.10	
....	25.52	33.10	40.45	51.28	
....	18.85	26.48	33.81	41.02	48.17	58.82	
....	23.17	30.49	37.69	44.82	51.91	62.51♥	
....	16.09	19.86	27.17	34.34	41.46	48.53	55.59♥	66.16♥	
....	12.76	16.55	20.22	23.84	30.99	38.09	45.15♥	52.20♥	59.23♥	69.77♥	
....	19.19	26.84	34.19	41.41	48.56	59.22	
....	15.82	27.55	34.73	42.07	49.44	56.81	67.33♥	
....	16.44	20.22	23.53	30.87	38.15	45.21	52.26	62.78♥	
....	13.11	16.91	20.60	24.22	31.39	38.49	45.56♥	52.61♥	59.65♥	70.19♥	
....	19.53	27.21	34.57	41.79	48.95	59.62	
....	16.16	23.89	31.25	38.46	45.60	52.71	63.32♥	
....	16.78	20.58	27.93	35.12	42.25	49.34♥	56.41♥	66.98♥	
....	19.87	27.57	34.94	42.18	49.34	60.01♥	
....	26.90	34.55	41.94	52.82	
....	16.49	24.25	31.62	38.84	46.00	53.10♥	63.72♥	
....	27.25	34.91	42.31	53.20	
....	20.20	27.93	35.31	42.56	49.73	60.41♥	
....	13.08†	17.13	20.94	28.30	35.51	42.64♥	49.74♥	56.81♥	67.39♥	
....	16.83	24.61	32.00	39.23	46.39♥	53.50♥	64.13♥	
....	27.59	35.27	42.68	53.58	
....	20.54	28.28	35.69	42.94	50.12♥	60.81♥	
....	27.93	35.83	43.05	53.96	
....	17.16†	24.97	32.37	39.61	46.78♥	53.90♥	64.53♥	
....	20.88	28.64	36.06	43.32	50.51♥	61.20♥	
....	28.27	35.98	43.42	54.34♥	
....	21.21	29.00	36.43	43.70♥	50.89♥	61.60♥	
....	28.61	36.34	43.79	54.72♥	
....	20.40†	28.95	36.69	44.16	55.10♥	
....	20.71‡	29.29	37.05	44.52♥	55.48♥	

XH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8	9	10	11	12	13	14
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400

Teeth in Mesh factor (T.I.M.)

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
None	6 or More	1.00
†	5	.80

Shaded area indicates stock belt widths.

Table Symbol	No. of Teeth In Mesh In Small Pulley	Factor
‡	4	.60

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-14
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SELECTION



XL Basic Horsepower Ratings

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys													
	10XL .637 P.D.	11XL .700 P.D.	12XL .764 P.D.	14XL .891 P.D.	15XL .955 P.D.	16XL 1.019 P.D.	18XL 1.146 P.D.	20XL 1.273 P.D.	21XL 1.337 P.D.	22XL 1.401 P.D.	24XL 1.528 P.D.	28XL 1.783 P.D.	30XL 1.910 P.D.	
100	.02	.02	.02	.03	.03	.03	.04	.04	.04	.04	.05	.06	.06	
200	.04	.04	.05	.06	.06	.07	.07	.08	.08	.09	.10	.11	.12	
300	.06	.07	.07	.09	.09	.10	.11	.12	.13	.13	.14	.17	.18	
400	.08	.09	.10	.11	.12	.13	.14	.16	.17	.17	.19	.23	.24	
500	.10	.11	.12	.14	.15	.16	.18	.20	.21	.22	.24	.29	.30	
600	.12	.13	.14	.17	.18	.19	.22	.24	.26	.27	.29	.34	.37	
700	.14	.15	.17	.20	.21	.23	.26	.28	.30	.31	.34	.40	.43	
800	.16	.17	.19	.23	.24	.26	.30	.33	.34	.36	.40	.48	.49	
900	.18	.20	.22	.26	.27	.30	.33	.37	.39	.40	.44	.51	.55	
1000	.20	.22	.24	.29	.31	.33	.37	.41	.43	.45	.49	.57	.62	
1100	.22	.25	.26	.31	.34	.36	.40	.45	.47	.49	.54	.63	.68	
1160	.23	.26	.28	.33	.36	.38	.42	.46	.50	.52	.56	.66	.71	
1200	.24	.27	.29	.34	.37	.39	.44	.49	.52	.54	.59	.68	.74	
1300	.26	.29	.31	.37	.40	.42	.48	.53	.56	.58	.64	.74	.80	
1400	.28	.31	.34	.40	.43	.46	.52	.57	.60	.63	.69	.80	.86	
1500	.30	.34	.36	.43	.46	.49	.55	.61	.64	.67	.74	.86	.92	
1600	.33	.36	.40	.46	.49	.53	.59	.65	.69	.72	.79	.91	.98	
1700	.35	.38	.42	.49	.52	.56	.63	.67	.73	.77	.83	.97	1.04	
1750	.36	.39	.43	.50	.53	.58	.64	.72	.75	.79	.86	1.00	1.07	
1800	.37	.40	.44	.51	.55	.59	.66	.74	.77	.81	.88	1.03	1.10	
2000	.41	.45	.49	.57	.62	.65	.74	.82	.86	.90	.98	1.15	1.23	
2200	.45	.49	.54	.63	.68	.72	.81	.90	.94	.99	1.08	1.25	1.34	
2400	.49	.54	.59	.68	.74	.79	.88	.98	1.03	1.07	1.18	1.37	1.46	
2600	.53	.58	.64	.74	.80	.85	.96	1.06	1.12	1.17	1.25	1.48	1.58	
2800	.57	.63	.69	.80	.86	.92	1.03	1.15	1.20	1.26	1.37	1.59	1.71	
3000	.61	.67	.74	.86	.92	.98	1.10	1.23	1.28	1.34	1.46	1.71	1.82	
3200	.65	.72	.79	.91	.98	1.05	1.18	1.30	1.37	1.43	1.56	1.81	1.94	
3400	.69	.77	.83	.97	1.04	1.11	1.25	1.38	1.45	1.52	1.66	1.92	2.05	
3500	.72	.79	.86	1.00	1.07	1.15	1.28	1.42	1.49	1.57	1.71	1.98	2.11	
3600	.74	.81	.88	1.03	1.10	1.18	1.32	1.46	1.54	1.61	1.75	2.03	2.16	
3800	.78	.83	.93	1.09	1.17	1.24	1.39	1.54	1.62	1.70	1.84	2.13	2.27	
4000	.82	.90	.98	1.15	1.23	1.30	1.46	1.63	1.71	1.78	1.94	2.24	2.39	
4200	.86	.94	1.03	1.20	1.28	1.37	1.53	1.71	1.76	1.86	2.03	2.35	2.50	
4400	.90	.99	1.08	1.25	1.34	1.43	1.61	1.78	1.86	1.95	2.12	2.45	2.61	
4600	.94	1.03	1.13	1.31	1.40	1.50	1.68	1.86	1.95	2.04	2.21	2.55	2.71	
4800	.98	1.07	1.18	1.37	1.46	1.56	1.75	1.94	2.03	2.13	2.30	2.65	2.82	
5000	1.02	1.12	1.23	1.42	1.52	1.63	1.82	2.01	2.11	2.20	2.39	2.75	2.92	
5500	....	....	....	....	1.67	1.78	2.00	2.20	2.30	2.41	2.61	2.99	3.18
6000	....	....	....	....	1.82	1.94	2.16	2.39	2.50	2.61	2.82	3.23	3.41
6500	....	....	....	....	1.96	2.09	2.34	2.57	2.69	2.80	3.03	3.42	3.64
7000	....	....	....	....	2.11	2.24	2.50	2.75	2.87	2.99	3.23	3.65	3.84
7500	....	....	....	....	2.25	2.39	2.66	2.92	3.05	3.18	3.41	3.84	4.03
8000	....	....	....	....	....	....	2.82	3.10	3.23	3.34	3.59	4.02	4.21
8500	....	....	....	....	....	....	2.97	3.26	3.39	3.52	3.76	4.19	4.37
9000	....	....	....	....	....	....	3.13	3.41	3.55	3.68	3.92	4.34	4.51
9500	....	....	....	....	....	....	3.28	3.56	3.70	3.83	4.07	4.47	4.63
10000	....	....	....	....	....	....	3.41	3.71	3.84	3.97	4.21	4.59	4.72

XL Belt Width Table

Belt Width Factor	.15	.28	.35	.42	.57	.71	.86	1.00	1.29	1.56
Belt Width	1/4	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2
Belt Width Code	025	037	043	050	062	075	087	100	125	150

Shaded area indicates stock belt widths.

◊ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

FEATURES/BENEFITS PAGE PT10-2	PULLEY SPECIFICATIONS PAGES PT10-3	BELT SPECIFICATIONS PAGES PT10-11	ENGINEERING/TECHNICAL PAGES PT10-44
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L Basic Horsepower Ratings

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys																		
	10L P.D.	12L P.D.	13L△ P.D.	14L P.D.	15L△ P.D.	16L P.D.	17L P.D.	18L P.D.	19L P.D.	20L P.D.	21L P.D.	22L P.D.	24L P.D.	26L P.D.	28L P.D.	30L P.D.	32L P.D.	40L P.D.	48L P.D.
100	.050	.06	.07	.07	.08	.08	.09	.09	.10	.10	.11	.12	.13	.14	.15	.16	.17	.21	.25
200	.100	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22	.23	.25	.27	.29	.31	.33	.42	.50
300	.160	.19	.20	.22	.23	.25	.27	.28	.30	.31	.33	.34	.38	.41	.44	.47	.50	.63	.75
400	.210	.25	.27	.29	.31	.33	.35	.38	.40	.42	.44	.46	.50	.54	.58	.62	.67	.83	1.00
500	.260	.31	.34	.37	.39	.42	.44	.47	.50	.52	.55	.57	.63	.68	.73	.78	.83	1.04	1.24
600	.310	.37	.41	.44	.47	.50	.53	.56	.59	.63	.66	.69	.75	.81	.87	.94	1.00	1.24	1.49
700	.370	.44	.47	.51	.55	.58	.62	.66	.69	.73	.77	.80	.87	.95	1.02	1.09	1.16	1.45	1.73
800	.420	.50	.54	.58	.62	.67	.71	.75	.79	.83	.87	.92	1.00	1.08	1.16	1.24	1.32	1.85	1.97
870	.450	.54	.59	.63	.68	.73	.77	.82	.86	.91	.95	1.00	1.08	1.17	1.26	1.35	1.44	1.79	2.14
900	.470	.56	.61	.66	.70	.75	.80	.84	.89	.94	.98	1.03	1.12	1.21	1.30	1.40	1.49	1.65	2.21
1000	.520	.62	.68	.73	.78	.83	.89	.94	.99	1.04	1.09	1.14	1.24	1.34	1.45	1.55	1.65	2.05	2.44
1100	.570	.69	.75	.80	.86	.92	.97	1.03	1.08	1.14	1.20	1.25	1.36	1.48	1.59	1.70	1.81	2.25	2.67
1160	.600	.72	.79	.85	.91	.97	1.03	1.08	1.14	1.20	1.26	1.32	1.44	1.56	1.67	1.79	1.91	2.36	2.81
1200	.630	.750	.81	.88	.94	1.00	1.06	1.12	1.18	1.24	1.30	1.36	1.49	1.61	1.73	1.85	1.97	2.44	2.90
1300	.680	.810	.88	.95	1.01	1.08	1.15	1.21	1.28	1.34	1.41	1.48	1.61	1.74	1.87	2.00	2.13	2.63	3.12
1400	.730	.870	.95	1.02	1.09	1.16	1.23	1.30	1.38	1.45	1.52	1.59	1.73	1.87	2.01	2.15	2.29	2.82	3.34
1500	.780	.940	1.020	1.09	1.16	1.24	1.32	1.40	1.47	1.55	1.62	1.70	1.85	2.00	2.15	2.30	2.44	3.01	3.55
1600	.830	1.000	1.080	1.16	1.24	1.32	1.41	1.49	1.57	1.65	1.73	1.81	1.97	2.13	2.28	2.44	2.60	3.20	3.76
1700	.890	1.060	1.150	1.23	1.32	1.41	1.49	1.58	1.66	1.75	1.83	1.92	2.09	2.26	2.42	2.59	2.75	3.38	3.97
1750	.910	1.090	1.170	1.27	1.36	1.45	1.54	1.62	1.71	1.80	1.89	1.98	2.15	2.32	2.49	2.66	2.83	3.47	4.06
1800	....	1.120	1.210	1.300	1.39	1.49	1.58	1.67	1.76	1.85	1.94	2.03	2.21	2.38	2.56	2.73	2.90	3.55	4.16
1900	....	1.180	1.270	1.380	1.47	1.57	1.66	1.76	1.85	1.95	2.04	2.14	2.32	2.51	2.69	2.87	3.05	3.73	4.35
2000	....	1.240	1.350	1.450	1.55	1.65	1.75	1.85	1.95	2.05	2.15	2.25	2.44	2.63	2.82	3.01	3.19	3.89	4.54
2200	....	1.360	1.480	1.590	1.70	1.81	1.92	2.03	2.14	2.25	2.35	2.46	2.67	2.88	3.08	3.28	3.49	4.23	4.89
2400	....	1.490	1.610	1.730	1.85	1.97	2.09	2.21	2.32	2.44	2.56	2.67	2.90	3.12	3.34	3.56	3.76	4.54	5.21
2500	....	1.550	1.680	1.800	1.920	2.05	2.17	2.30	2.42	2.54	2.66	2.78	3.01	3.24	3.47	3.68	3.90	4.69	5.35
2600	....	1.610	1.740	1.870	2.000	2.13	2.26	2.38	2.51	2.63	2.76	2.88	3.12	3.36	3.59	3.81	4.03	4.83	5.48
2800	....	1.730	1.870	2.010	2.140	2.29	2.42	2.56	2.69	2.82	2.96	3.09	3.34	3.59	3.83	4.06	4.29	5.10	5.73
3000	....	1.850	2.000	2.150	2.290	2.44	2.59	2.73	2.87	3.01	3.15	3.29	3.55	3.81	4.06	4.30	4.54	5.35	5.94
3200	....	....	2.130	2.280	2.440	2.60	2.74	2.90	3.04	3.19	3.34	3.48	3.76	4.03	4.29	4.54	4.77	5.57	6.11
3400	....	....	2.260	2.420	2.580	2.75	2.91	3.07	3.22	3.37	3.53	3.67	3.97	4.24	4.50	4.76	4.99	5.78	6.23
3500	....	....	2.320	2.490	2.650	2.83	2.99	3.15	3.31	3.46	3.62	3.77	4.06	4.35	4.61	4.86	5.10	5.87	6.27
3600	....	....	....	2.550	2.730	2.900	3.070	3.23	3.39	3.55	3.71	3.86	4.16	4.45	4.72	4.97	5.21	5.95	6.31
3800	....	....	....	2.690	2.860	3.030	3.220	3.40	3.56	3.73	3.89	4.05	4.35	4.64	4.91	5.16	5.40	6.09	6.33
4000	....	....	....	2.830	3.000	3.200	3.370	3.56	3.73	3.89	4.06	4.23	4.54	4.83	5.10	5.34	5.57	6.21	6.31
4200	....	....	....	....	3.150	3.340	3.530	3.72	3.88	4.06	4.23	4.40	4.72	5.01	5.28	5.52	5.74	6.28	6.23
4400	....	....	....	....	3.280	3.490	3.670	3.86	4.04	4.22	4.40	4.57	4.89	5.19	5.44	5.68	5.88	6.33	6.09†
4600	....	....	....	....	3.410	3.630	3.820	4.01	4.20	4.38	4.56	4.73	5.05	5.34	5.59	5.82	6.01	6.35	5.89†
4800	....	....	....	....	3.540	3.770	3.960	4.17	4.35	4.54	4.72	4.89	5.20	5.48	5.73	5.94	6.12	6.32	5.63†
5000	....	....	....	....	3.670	3.910	4.100	4.310	4.500	4.68	4.86	5.04	5.35	5.63	5.86	6.06	6.20	6.26	5.30†
5200	....	....	....	....	3.810	4.030	4.230	4.450	4.630	4.82	5.01	5.18	5.48	5.76	5.98	6.15	6.27	6.16†	4.91†
5400	....	....	....	....	3.930	4.170	4.370	4.590	4.770	4.96	5.14	5.31	5.61	5.88	6.07	6.23	6.32	6.01†	4.44†
5600	....	....	....	....	4.050	4.290	4.500	4.720	4.910	5.09	5.28	5.44	5.73	5.98	6.16	6.28	6.34	5.83†	3.89†
5800	....	....	....	....	4.170	4.420	4.620	4.840	5.040	5.22	5.40	5.57	5.84	6.07	6.23	6.32	6.34	5.60†	3.27†
6000	....	....	....	....	4.290	4.550	4.750	4.970	5.150	5.34	5.52	5.68	5.93	6.15	6.28	6.35	6.33	5.32†	2.57†

L Belt Width Table

Belt Width Factor	.28	.35	.45	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36
Belt Width	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3
Belt Width Code	037	043	050	062	075	087	100	125	150	175	200	250	300

Shaded area indicates stock belt widths.

△ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.
A reduction in belt life should be expected. Suggest alternate drive, when ever possible.



SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

H Basic Horsepower Ratings

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys																
	14H 2.228 P.D.	16H 2.546 P.D.	17H 2.706 P.D.	18H 2.865 P.D.	19H 3.024 P.D.	20H 3.183 P.D.	21H 3.342 P.D.	22H 3.501 P.D.	24H 3.820 P.D.	26H 4.138 P.D.	28H 4.456 P.D.	30H 4.775 P.D.	32H 5.039 P.D.	36HA 5.730 P.D.	40H 6.366 P.D.	44HA 7.003 P.D.	48H 7.639 P.D.
100	.25	.28	.30	.32	.34	.35	.37	.39	.42	.46	.50	.53	.57	.64	.71	.78	.85
200	.50	.57	.60	.64	.67	.71	.74	.78	.85	.92	.99	1.06	1.13	1.27	1.41	1.56	1.70
300	.74	.85	.90	.96	1.01	1.06	1.11	1.17	1.27	1.38	1.49	1.59	1.70	1.91	2.12	2.33	2.54
400	.99	1.13	1.20	1.27	1.34	1.41	1.49	1.56	1.70	1.84	1.98	2.12	2.26	2.54	2.82	3.10	3.38
500	1.24	1.41	1.50	1.59	1.68	1.77	1.86	1.94	2.12	2.30	2.47	2.65	2.82	3.17	3.52	3.87	4.22
600	1.49	1.70	1.80	1.91	2.02	2.12	2.23	2.33	2.54	2.75	2.96	3.17	3.38	3.80	4.22	4.64	5.05
700	1.73	1.98	2.10	2.23	2.35	2.47	2.59	2.72	2.96	3.21	3.45	3.70	3.94	4.43	4.91	5.40	5.88
800	1.98	2.26	2.40	2.54	2.68	2.82	2.96	3.10	3.38	3.66	3.94	4.22	4.50	5.05	5.60	6.15	6.69
870	2.15	2.46	2.61	2.76	2.91	3.07	3.22	3.37	3.68	3.98	4.28	4.58	4.89	5.49	6.08	6.67	7.26
900	2.230	2.54	2.70	2.86	3.01	3.17	3.33	3.49	3.80	4.11	4.43	4.74	5.05	5.67	6.29	6.89	7.50
1000	2.470	2.82	3.00	3.17	3.35	3.52	3.70	3.87	4.22	4.57	4.91	5.26	5.60	6.29	6.96	7.63	8.30
1100	2.720	3.10	3.30	3.49	3.68	3.87	4.06	4.26	4.64	5.02	5.40	5.77	6.15	6.90	7.63	8.36	9.08
1160	2.860	3.27	3.47	3.68	3.88	4.08	4.28	4.48	4.89	5.28	5.68	6.08	6.48	7.26	8.03	8.80	9.55
1200	....	3.380	3.59	3.80	4.01	4.22	4.43	4.64	5.05	5.46	5.88	6.29	6.69	7.50	8.30	9.08	9.86
1300	....	3.660	3.89	4.12	4.34	4.57	4.79	5.01	5.46	5.91	6.35	6.79	7.23	8.10	8.95	9.79	10.62
1400	....	3.940	4.19	4.43	4.67	4.91	5.15	5.39	5.87	6.35	6.83	7.30	7.77	8.69	9.60	10.49	11.36
1500	....	4.220	4.480	4.74	5.00	5.26	5.51	5.77	6.28	6.79	7.30	7.80	8.30	9.28	10.24	11.18	12.09
1600	....	4.500	4.780	5.05	5.33	5.60	5.87	6.15	6.69	7.23	7.77	8.30	8.82	9.86	10.87	11.85	12.80
1700	....	4.770	5.070	5.36	5.65	5.94	6.23	6.52	7.10	7.67	8.23	8.79	9.34	10.43	11.49	12.51	13.50
1750	....	4.910	5.220	5.52	5.81	6.11	6.41	6.71	7.30	7.88	8.46	9.03	9.60	10.71	11.79	12.84	13.84
1800	....	5.050	5.360	5.670	5.98	6.28	6.59	6.89	7.50	8.10	8.69	9.28	9.86	10.99	12.09	13.15	14.18
1900	....	5.420	5.660	5.980	6.30	6.62	6.94	7.26	7.90	8.53	9.15	9.76	10.36	11.55	12.69	13.78	14.83
2000	....	5.60	5.950	6.280	6.62	6.96	7.30	7.63	8.29	8.95	9.60	10.24	10.87	12.10	13.27	14.40	15.46
2100	....	....	....	6.590	6.94	7.29	7.65	8.00	8.69	9.37	10.05	10.71	11.36	12.63	13.84	14.99	16.08
2200	....	....	....	6.890	7.26	7.63	8.00	8.36	9.08	9.79	10.49	11.18	11.85	13.16	14.40	15.57	16.66
2300	....	....	....	7.200	7.58	7.96	8.34	8.72	9.47	10.21	10.93	11.64	12.33	13.68	14.94	16.13	17.23
2400	....	....	....	7.500	7.90	8.29	8.69	9.08	9.85	10.62	11.37	12.09	12.80	14.18	15.46	16.66	17.76
2500	....	....	....	7.800	8.210	8.62	9.03	9.44	10.23	11.02	11.80	12.54	13.27	14.68	15.98	17.18	18.27
2600	....	....	....	8.100	8.520	8.95	9.37	9.79	10.61	11.42	12.22	12.98	13.72	15.16	16.47	17.67	18.75
2800	....	....	....	8.690	9.140	9.59	10.04	10.49	11.35	12.21	13.05	13.84	14.61	16.09	17.41	18.60	19.63
3000	....	....	....	9.280	9.750	10.23	10.70	11.18	12.08	12.98	13.85	14.67	15.46	16.96	18.27	19.42	20.38
3200	....	....	....	9.850	10.360	10.85	11.35	11.85	12.79	13.72	14.63	15.46	16.27	17.78	19.06	20.14	20.99
3400	....	....	....	10.430	10.950	11.47	11.99	12.51	13.48	14.45	15.37	16.22	17.03	18.53	19.76	20.75	21.46†
3500	....	....	....	10.710	11.240	11.77	12.31	12.84	13.82	14.80	15.74	16.59	17.40	18.89	20.08	21.01	21.63†
3600	....	....	....	....	....	12.070	12.62	13.16	14.16	15.15	16.09	16.95	17.75	19.22	20.37	21.24†	21.77†
3800	....	....	....	....	....	12.670	13.23	13.79	14.81	15.82	16.78	17.63	18.42	19.85	20.89	21.60†	21.92†
4000	....	....	....	....	....	13.240	13.82	14.40	15.44	16.46	17.43	18.27	19.04	20.40	21.31†	21.83†	21.90†
4200	....	....	....	....	....	13.810	14.41	15.00	16.04	17.08	18.05	18.87	19.61	20.88	21.62†	21.93†	21.70†
4400	....	....	....	....	....	14.360	14.97	15.57	16.63	17.67	18.62	18.42	20.12	21.27†	21.83†	21.87†	21.32†
4600	....	....	....	....	....	14.900	15.520	16.13	17.18	18.22	19.16	19.90	20.57	21.58†	21.82†	21.67†	20.73†
4800	....	....	....	....	....	15.420	16.050	16.67	17.71	18.74	19.66	20.37	20.96	21.81†	21.89†	21.30†	19.93†
5000	....	....	....	....	....	15.930	16.560	17.19	18.22	19.23	20.12	20.77	21.29†	21.95†	21.73†	20.77†	....
5200	....	....	....	....	....	16.410	17.050	17.69	18.69	19.68	20.53	21.11†	21.54†	21.99†	21.44†	20.06†	....
5400	....	....	....	....	....	16.890	17.530	18.160	19.13	20.09	20.90	21.39†	21.73†	21.93†	21.02†	....	....
5600	....	....	....	....	....	17.340	17.980	18.610	19.55	20.47	21.22†	21.62†	21.85†	21.76†	20.45†	....	....
5800	....	....	....	....	....	17.770	18.410	19.040	19.93	20.80	21.49†	21.78†	21.89†	21.50†	19.75†	....	....
6000	....	....	....	....	....	18.190	18.820	19.410	20.27	21.10†	21.70†	21.88†	21.85†	21.12†	....	....	....

H Belt Width Table

Belt Width Factor	.42	.57	.71	.86	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32
Belt Width	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5	6	7	8
Belt Width Code	050	062	075	087	100	125	150	175	200	250	300	350	400	500	600	700	800

Shaded area indicates stock belt widths.

Δ Special non-stock sizes.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◊ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

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SELECTION



XH Basic Horsepower Ratings

XXH Basic Horsepower Ratings

RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys									RPM of Faster Shaft	HP for a 1" Wide Belt for Various Pulleys								
	18 XH 5.013 P.D.	20 XH 5.570 P.D.	22 XH 6.127 P.D.	24 XH 6.685 P.D.	26 XH 7.241 P.D.	28 XH 7.799 P.D.	30 XH 8.356 P.D.	32 XH 8.913 P.D.	40 XH 11.141 P.D.		18 XXH 7.162 P.D.	20 XXH 7.958 P.D.	22 XXH 8.753 P.D.	24 XXH 9.549 P.D.	26 XXH 10.345 P.D.	30 XXH 11.937 P.D.	32 XXH 13.528 P.D.	40 XXH 15.915 P.D.	
100	0.760	0.84	0.93	1.01	1.11	1.18	1.26	1.34	1.68	100	1.330	1.48	1.83	1.77	1.92	2.21	2.51	2.95	
200	1.510	1.68	1.85	2.02	2.19	2.36	2.52	2.69	3.37	200	2.660	2.95	3.24	3.54	3.84	4.42	5.00	5.87	
300	2.280	2.52	2.78	3.03	3.28	3.54	3.78	4.03	5.02	300	3.980	4.42	4.85	5.29	5.72	6.58	7.45	8.73	
400	3.030	3.37	3.70	4.03	4.37	4.70	5.02	5.36	6.66	400	5.290	5.87	6.44	7.02	7.60	8.73	9.85	11.49	
480	3.630	4.03	4.43	4.82	5.22	5.62	6.00	6.40	7.95	480	6.330	7.02	7.70	8.39	9.06	10.40	11.71	13.61	
500	3.780	4.200	4.61	5.02	5.44	5.85	6.26	6.71	8.26	500	6.630	7.310	8.02	8.73	9.43	10.81	12.17	14.13	
510	3.860	4.290	4.71	5.12	5.54	5.97	6.37	6.80	8.42	510	6.720	7.450	8.17	8.89	9.61	11.02	12.39	14.39	
570	4.300	4.770	5.25	5.72	6.17	6.65	7.10	7.56	9.36	570	7.500	8.310	9.11	9.90	10.68	12.23	13.73	15.89	
600	4.530	5.020	5.52	6.00	6.50	6.98	7.47	7.95	9.82	600	7.880	8.730	9.57	10.40	11.22	12.83	14.39	16.62	
680	5.120	5.680	6.24	6.80	7.34	7.88	8.42	8.96	11.04	680	8.890	9.850	10.78	11.71	12.62	14.39	16.09	18.49	
700	5.270	5.840	6.42	6.98	7.54	8.10	8.66	9.21	11.35	700	9.150	10.130	11.09	12.03	12.96	14.77	16.51	18.93	
800	6.000	6.660	7.31	7.95	8.59	9.21	9.83	10.44	12.80	800	10.400	11.490	12.56	13.62	14.64	16.62	18.49	21.02	
870	6.520	7.230	7.92	8.61	9.29	9.97	10.63	11.29	13.79	870	10.850	12.430	13.56	14.70	15.79	17.88	19.78	22.34	
900	6.740	7.460	8.190	8.90	9.59	10.29	10.97	11.64	14.18	900	11.690	12.830	14.000	15.15	16.23	18.37	20.31	22.86	
1000	7.470	8.260	9.050	9.82	10.59	11.35	12.08	12.80	15.51	1000	12.830	14.140	15.400	16.62	17.80	20.01	21.98	24.44	
1100	8.190	9.050	9.910	10.75	11.56	12.38	13.15	13.92	16.74	1100	14.000	15.400	16.940	18.00	19.26	21.50	23.45	25.70	
1160	8.610	9.510	10.410	11.29	12.13	12.97	13.79	14.57	17.44	1160	14.700	16.140	17.520	18.84	20.01	22.34	24.23	26.29	
1200	....	9.830	10.750	11.640	12.51	13.37	14.29	14.99	17.89	1200	....	16.620	18.030	19.370	20.62	22.88	24.71	26.62
1300	....	10.590	11.570	12.510	13.44	14.32	15.18	16.01	18.94	1300	....	17.800	19.260	19.880	21.88	24.07	26.75	27.18
1400	....	11.350	12.370	13.370	14.32	15.25	16.14	16.98	19.87	1400	....	18.930	20.410	21.790	23.03	26.10	26.54	27.33
1500	....	12.080	13.150	14.190	15.18	16.14	17.03	17.89	20.71	1500	....	19.190	21.500	22.880	24.07	26.95	27.06	27.05
1600	....	12.800	13.920	14.990	16.01	16.98	17.14	18.82	21.42	1600	....	21.020	22.520	23.840	24.98	26.62	27.32	26.33†
1700	....	13.500	14.660	15.760	16.80	17.78	18.68	19.51	21.99	1700	....	21.990	23.450	24.710	25.75	27.07	27.27	25.11†
1750	....	13.850	15.030	16.140	17.17	18.16	19.06	19.87	22.22	1750	....	22.430	23.880	25.110	26.08	27.22	27.12	24.31†
1800	....	....	15.370	16.510	17.560	18.53	19.42	20.22	22.35	1800	....	22.870	24.290	26.470	26.380	27.31	26.89	23.36†
1900	....	....	16.070	17.220	18.650	19.23	20.69	20.86	22.70	1900	....	23.690	25.040	26.110	26.860	27.31	26.18†	....
2000	....	....	16.740	17.890	18.940	19.87	20.71	21.42	22.84	2000	....	24.440	25.700	26.620	27.180	27.08	26.11†	....
2100	....	....	17.390	18.530	19.560	20.48	21.25	21.88	22.81	2100	....	25.110	26.240	27.000	27.330	26.56†	23.66†	....
2200	....	....	18.000	19.430	20.140	21.01	21.72	22.27	22.61	2200	....	25.700	26.690	27.240	27.310	26.79†	....	....
2300	....	....	18.580	19.700	20.670	21.47	22.11	22.55	22.30†	2300	....	26.210	27.030	27.330	27.090	24.74†	....	....
2400	....	....	19.130	20.220	21.140	21.88	22.42	22.75	21.65†	2400	....	26.620	27.240	27.280	26.69†	23.36†	....	....
2500	....	....	....	20.710	21.570	22.220	22.64	22.84	20.89†	2500	....	29.950	27.330	27.060	26.07†	....	....	....
2600	....	....	....	21.140	21.940	22.490	22.80	22.82	19.92†	2600	....	27.180	27.300	26.69†	25.25†	....	....	....
2800	....	....	....	21.890	22.490	22.810	22.81	22.47†	....	2800	....	27.340	26.830	25.40†	22.95†	....	....	....
3000	....	....	....	22.420	22.800	22.810	22.44†	21.65†	....	3000	....	27.070	26.79	23.36†	....	....	....	....
3200	....	....	....	22.750	22.820	22.47†0	21.65†	20.33†	....	3200	....	....	....	....	....	....	....	....
3400	....	....	....	22.840	22.880	21.78†0	20.42†	18.48†	....	3400	....	....	....	....	....	....	....	....
3500	....	....	....	22.810	22.34†0	21.29†0	19.64†	....	....	3500	....	....	....	....	....	....	....	....
3600	....	....	....	22.710	22.02†0	20.72†0	18.73†	....	....	3600	....	....	....	....	....	....	....	....
3800	....	....	....	22.31†0	21.41†0	19.22†0	....	....	....	3800	....	....	....	....	....	....	....	....
4000	....	....	....	21.65†0	19.92†0	....	....	....	....	4000	....	....	....	....	....	....	....	....
4200	....	....	....	20.71†0	18.33†0	....	....	....	....	4200	....	....	....	....	....	....	....	....
4400	....	....	....	19.47†0	....	....	....	....	....	4400	....	....	....	....	....	....	....	....

XH, XXH Belt Width Table

Belt Width Factor	1.00	1.29	1.56	1.84	2.14	2.72	3.36	4.06	4.76	6.15	7.50	8.89	10.32	11.70	13.10	14.41	15.84	17.16	18.62
Belt Width	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	3-1/2	4	5Δ	6	7	8	9	10	11	12	13	14
Belt Width Code	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	1300	1400

Shaded area indicates stock belt widths.

† Belt Speed exceeds 6500 FPM – consult Dodge.

◇ Pulley diameter is below recommended minimum.

A reduction in belt life should be expected. Suggest alternate drive, when ever possible.

Δ Stock with XXH Series only.

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Dimensions, Tolerances, etc.

Warning—Do not use DYNA-SYNC Pulleys with belt speeds exceeding 6500 fpm. May cause pulleys to fragment resulting in personal injury or property damage.

Concentricity and Face Run-Out Tolerances

Runout (T.I.R. \diamond)	O.D.	Tol.
Radial	8" & under	.005"
	For each add'l. inch of O.D. add .0005"	
Axial	1" & Under	.001"
	For each add'l. inch of O.D. thru 10" add .001"	
	For each add'l. inch of O.D. over 10" add .0005"	

\diamond Total Indicator Reading

Standard Keyways

Bore Range	Keyway
5/16 - 7/16 Incl.	3/32 x 3/64
Over 7/16 - 9/16 Incl.	1/8 x 1/16
Over 9/16 - 7/8 Incl.	3/16 x 3/32
Over 7/8 - 1-1/4 Inc.	1/4 x 1/8
Over 1-1/4 - 1-3/8 Inc.	5/16 x 5/32
Over 1-3/8 - 1-3/4 Incl.	3/8 x 3/16
Over 1-3/4 - 2-1/4 Inc.	1/2 x 1/4
Over 2-1/4 - 2-3/4 Incl.	5/8 x 5/16
Over 2-3/4 - 3-1/4 Incl.	3/4 x 3/8

Reborable Pulley Bore Tolerances

Bore Size	Tol.
15/16" & Under	.0010" - .0000"
1" to 1-15/16"	.0015" - .0000"
2" to 2-15/16"	.0020" - .0000"
3" & Over	.0025" - .0000"

Pulley Outside Diameter/Diameter Over Belt

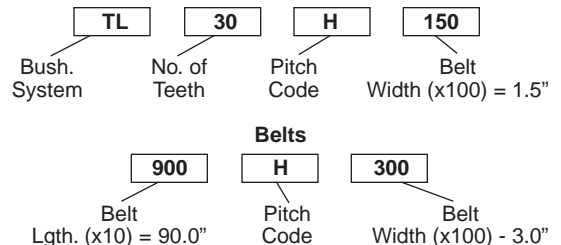
Pitch	Pulley O.D.	Diameter Over Belt
XL	P.D.- 0.02"	P.D.+0.08"
L	P.D.- 0.03"	P.D.+0.11"
H	P.D.- 0.054"	P.D.+0.11"
XH	P.D.- 0.11"	P.D.+0.27"
XXH	P.D.- 0.12"	.....

Rebore Charges—Reborable pulley alteration charges are shown in MLP Price Book. TAPER-LOCK pulleys accommodate all common tolerance variations found in commercial shafting.

Balancing—All DYNA-SYNC Pulleys have been given a careful static balance for operation up to 6500 FPM. When vibration is a problem, dynamic balancing is recommended – Consult price book MLP. (See Warning above)

Special Pulleys—In 1/5 thru 1-1/4" pitches, pulleys can be made to suit customer's specifications and may be furnished in sizes not listed on previous pages. Send us your inquiry.

NOMENCLATURE Pulleys



1/5" pitch (XL)	3/8" pitch (L)	1/2" pitch (H)	7/8" pitch (XH)	1-1/4" pitch (XXH)
Typical uses are shown below the Tooth Dimensions Sketches . . .				
Business machines, instrumentation, sound equipment.	FHP applications such as home appliances, small tools, pumps, blowers.	Machine tools, pumps, fans, presses, motor-generator sets.	Medium-torque applications – such as heavy industrial equipment.	High-torque applications – such as heavy industrial equipment.

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Installing / Tensioning DYNA-SYNC Drives

Alignment

Use straight edge to check parallel and offset alignment. Align pulleys within 1/4° or 1/16" per foot center distance. Supporting framework must be rigid.

Pulley Flanges

At least one pulley must have flanges. If center distance is more than 8 times the diameter of the smallest pulley, both pulleys should be flanged. Vertical shaft drives may require flanges on both pulleys.

Installation

Reduce center distance so that belt can be slipped into place without forcing. Do not pry belt onto pulleys. Increase center distance to tighten belt. Belt should be snug, but not excessively tight. If belt has a tendency to "jump teeth" during operation, increase belt tension.

Idlers

Adjustable center distance is preferred over idlers to tension belt. Idlers should be positioned on the slack side of the drive. Inside idlers are preferred over outside idlers. Idler diameter should be at least as large as the smallest pulley.

TENSIONING THE DRIVE –

Simple Tensioning Procedure:

Step 1 – Calculate the value of the deflection force "f" from the following formula, referring to drawing below.

$$\text{Force of Deflection } f = \frac{T + (S/L) K}{16}$$

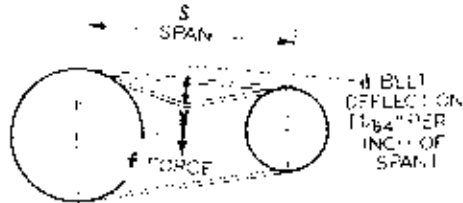
Where S = Span distance in inches

T = Tension in Lbs. from Table below

K = Constant from Table

L = Length of Belt

Step 2 – Using a straight edge as a reference, apply enough force to deflect belt 1/64" for every inch of center span. If this force is less than the calculated "f", increase center distance of pulleys. If more than "f", decrease center distance of pulleys.



Belt Deflection Force T and K Values

Belt Pitch	Values #	Belt Width														
		1/4	3/8	1/2	5/8	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10
XL 1/5"	T	6.7	10	15	20	24.2	34.2	...	...	...	...	...	...	...	...	...
	K	.85	1.7	2.7	3.6	4.7	6.7	...	...	...	...	...	...	...	...	...
L 3/8"	T	...	11.4	17.1	22.1	27.9	39.3	61.4	...	...	...	...	...	...	...	...
	K	...	8.5	9.9	14	17	24	37	...	...	...	...	...	...	...	...
H 1/2"	T	...	...	39.3	53.3	66	93.3	145.3	200	254	313	444	574	700	...	...
	K	...	...	17	22	32	46	71	95	125	152	210	265	320	...	...
XH 7/8"	T	...	...	...	...	...	...	...	227	288	356	504	652	795	1094	1388
	K	...	...	...	...	...	...	...	190	250	305	440	568	700	1080	1330
XXH 1-1/4"	T	...	...	...	...	...	...	...	556	707	873	1238	1599	1950	2683	3406
	K	...	...	...	...	...	...	...	310	410	500	710	920	1100	1500	...

#T = Tension in Pounds; K = constant for above formula.

Allowable Working Tension (Ta) Lbs.

Belt Pitch	Belt Width																
	1/4	3/8	1/2	5/8	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14
XL 1/5"	8	12	18	24	29	41	...	...	...	...	...	...	...	...	...	...	...
L 3/8"	...	16	24	31	39	55	86	118	150	185	...	...	...	...	...	...	...
H 1/2"	59	80	99	140	218	300	381	470	666	861	1050	...	...	...	...
XH 7/8"	409	519	641	908	1175	1431	1969	2499	3022	3552
XXH 1-1/4"	500	636	786	1114	1439	1755	2415	3065	3706	4357

Note: These values have not been corrected for centrifugal force loss.

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NOTES



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

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HT Synchronous Belt Drives

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FEATURES/BENEFITS



DODGE HT200 Drives

High Torque Synchronous Belt Drives

- 200% Rating of HTD
- Quieter Operation
- More Compact
- 8MM & 14MM Pitch

Plus all the benefits of standard HTD Drives:

- Positive, non-slip drive
- No lubrication required
- Non-stretch
- Corrosion resistant
- Abrasion resistant
- Virtually no backlash
- Clean operation
- Long life
- Low maintenance



THE TECHNOLOGY OF HT200 PERFORMANCE

Advanced Tooth Profile Design

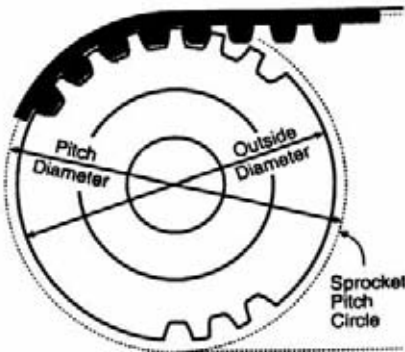
- Optimizes distribution of load forces between belt and sprocket.
- Improves dynamic efficiency between sprocket and belt.
- Increases torque capacity.
- Allows more compact, narrower drive.
- Operates more quietly.

New Belt Construction

- Tougher Chloroprene rubber resists tooth shear, increases load capacity.
- Strong, stretch-resistant tensile cords.
- Tough, wear-resistant nylon tooth facing keeps friction low, protects from wear.

HT200: The Next Level

- 200% rating at HTD
- New Belt Construction
- Compact Design
- Uses HT TAPER-LOCK Sprockets
- Competitively Priced





DODGE HT200 Drives



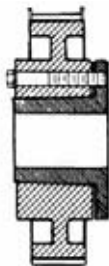
HT TAPER-LOCK Sprockets

- **Torque Rated:** Shaft gripping strength to meet the higher demands of the 200% rating of HT200 Belts.
- **Compatible:** Accepts HT200 or standard HTD belts.
- **Compact:** Save shaft space with compact TAPER-LOCK design.
- **Reduce Overhung Load:** Compact design allows closer mounting to motor or reducer bearings. Improves bearing life, reduces maintenance costs.

TAPER-LOCK
THE Compact Synchronous Drive



TAPER-LOCK HT



FLANGE-BUSHED
SPROCKET

Compact TAPER-LOCK design takes up less shaft space than narrow width belts or products using flanged style bushing. The result is a more compact, economical synchronous drive.

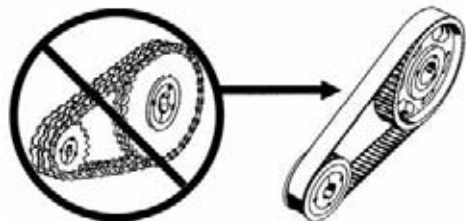


DODGE QD HTD Sprockets

- Rated for capacity of standard HTD belts.
- Compatible for standard HTD belts.
- Can run HT200 belts at HTD rating.
- Use HT200 belts for quieter operation than with HTD belts.

Caution: Standard QD style HTD sprockets manufactured by DODGE or by others may not have the torque capacity for the higher rated HT200 belts. HT TAPER-LOCK sprockets from DODGE are designed to handle the higher loads.

Upgrade Roller Chain Drives to DODGE HT200



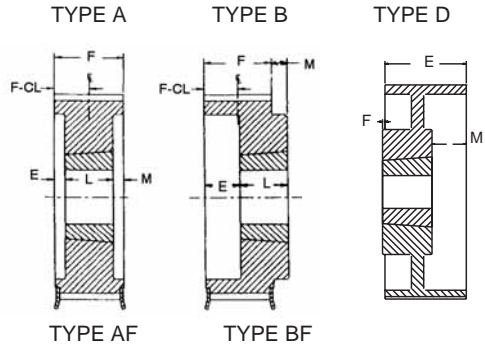
- **Clean:** No lubrication required. No messy oil drips or spills.
- **Quiet:** No metal-to-metal contact.
- **Smooth Operation:** No chordal action of chain drive that results in vibration and speed variation.
- **Economical Drive Guard:** Basic enclosed or ventilated guard will suffice. Oil seals, filler and drain plugs not required.



SPECIFICATION



HT TAPER-LOCK Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

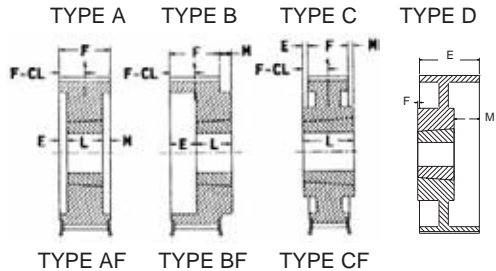
5MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			P.D.	O.D.	FLANGE		E	M	Min.	Max		
5M-15			F = 0.89"									
P32-5M-15-MPB	112465	32	2.005	1.960	2.125		0.50	0	1/2	7/8	0.8	0.0016
P34-5M-15-MPB	112466	34	2.130	2.085	2.375		0.50	0	1/2	1	0.9	0.0021
P36-5M-15-MPB	114640	36	2.256	2.211	2.375		0.50	0	1/2	1-1/8	1.1	0.0028
P36-5M-15-1108	112467	36	2.256	2.211	2.375	A1F	0	0	1/2	1-1/8	0.47	0.0028
P38-5M-15-1108	112468	38	2.381	2.336	2.613	A1F	0	0	1/2	1-1/8	0.57	0.0036
P40-5M-15-1108	112469	40	2.506	2.461	2.733	A1F	0	0	1/2	1-1/8	0.68	0.0047
P44-5M-15-1108	112470	44	2.757	2.712	3.090	A1F	0	0	1/2	1-1/8	0.91	0.0072
P48-5M-15-1210	112471	48	3.008	2.963	3.328	B1F	0	0.11	1/2	1-1/4	1.0	0.0105
P52-5M-15-1210	112472	52	3.258	3.213	3.566	B1F	0	0.11	1/2	1-1/4	1.3	0.0153
P56-5M-15-1610	112473	56	3.509	3.464	3.805	B1F	0	0.11	1/2	1-11/16	1.4	0.0192
P60-5M-15-1610	112474	60	3.760	3.715	4.044	B1F	0	0.11	1/2	1-11/16	1.7	0.0267
P64-5M-15-1610	112475	64	4.010	3.965	4.170	B1F	0	0.11	1/2	1-11/16	2.1	0.0353
P68-5M-15-1610	112476	68	4.261	4.216	4.520	B1F	0	0.11	1/2	1-11/16	2.4	0.0458
P72-5M-15-1610	112477	72	4.511	4.466	4.670	B1F	0	0.11	1/2	1-11/16	2.8	0.0583
P80-5M-15-1610	112478	80	5.013	4.968	...	B1	0	0.11	1/2	1-11/16	3.7	0.0906
P90-5M-15-1610	112479	90	5.639	5.594	...	B1	0	0.11	1/2	1-11/16	4.9	0.1474
P112-5M-15-2012	112480	112	7.018	6.973	...	B1	0	0.36	1/2	2-1/8	8.3	0.3750
5M-25			F = 1.28"									
P32-5M-25-MPB	112481	32	2.005	1.960	2.125		0.50	0	1/2	7/8	1.1	0.0024
P34-5M-25-MPB	112482	34	2.130	2.085	2.375		0.50	0	1/2	1	1.2	0.0031
P36-5M-25-1108	112483	36	2.256	2.211	2.375	A1F	0	0.41	1/2	1-1/8	0.65	0.0039
P38-5M-25-1108	112484	38	2.381	2.336	2.613	A1F	0	0.41	1/2	1-1/8	0.73	0.0048
P40-5M-25-1108	112485	40	2.506	2.461	2.733	A1F	0	0.41	1/2	1-1/8	0.85	0.0061
P44-5M-25-1108	112486	44	2.757	2.712	3.090	A1F	0	0.41	1/2	1-1/8	1.1	0.0091
P48-5M-25-1210	112487	48	3.008	2.963	3.328	A1F	0	0.28	1/2	1-1/4	1.2	0.0130
P52-5M-25-1210	112488	52	3.258	3.213	3.566	A1F	0	0.28	1/2	1-1/4	1.6	0.0185
P56-5M-25-1610	112489	56	3.509	3.464	3.805	A1F	0	0.28	1/2	1-11/16	1.6	0.0240
P60-5M-25-1610	112490	60	3.760	3.715	4.044	A1F	0	0.28	1/2	1-11/16	2.1	0.0335
P64-5M-25-1610	112491	64	4.010	3.965	4.170	A1F	0	0.28	1/2	1-11/16	2.4	0.0430
P68-5M-25-2012	112492	68	4.261	4.216	4.520	A1F	0.03	0.00	1/2	2-1/8	2.7	0.0571
P72-5M-25-2012	112493	72	4.511	4.466	4.670	A1F	0.03	0.00	1/2	2-1/8	3.3	0.0751
P80-5M-25-2012	112494	80	5.013	4.968	...	A1	0.03	0.00	1/2	2-1/8	4.5	0.1215
P90-5M-25-2012	112495	90	5.639	5.594	...	A1	0.03	0.00	1/2	2-1/8	6.2	0.2032
P112-5M-25-2012	112496	112	7.018	6.973	...	A1	0.03	0.00	1/2	2-1/8	10.7	0.5102

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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HT TAPER-LOCK Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

8MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR*2 (Lb-Ft*2)
			P.D.	O.D.	FLANGE		E	M	Min.	Max.		
8M-20 F = 1.13"												
P22-8M-20-1108*	112850	22	2.206	2.152	2.559	A1F	0.00	0.26	1/2	1-1/8	0.5	0.0027
P24-8M-20-1108	112851	24	2.406	2.352	2.756	A1F	0.00	0.26	1/2	1-1/8	0.7	0.0044
P26-8M-20-1108	112852	26	2.607	2.553	2.953	A1F	0.00	0.26	1/2	1-1/8	0.9	0.0065
P28-8M-20-1108	112853	28	2.807	2.753	3.150	A1F	0.26	0.00	1/2	1-1/8	1.2	0.0093
P30-8M-20-1210	112854	30	3.008	2.954	3.346	A1F	0.13	0.00	1/2	1-1/4	1.2	0.0116
P32-8M-20-1210	112855	32	3.208	3.154	3.543	A1F	0.00	0.13	1/2	1-1/4	1.4	0.0157
P34-8M-20-1610	112856	34	3.409	3.355	3.819	A1F	0.13	0.00	1/2	1-11/16	1.4	0.0185
P36-8M-20-1610	112857	36	3.609	3.555	3.937	A1F	0.13	0.00	1/2	1-11/16	1.7	0.0246
P38-8M-20-1610	112858	38	3.810	3.756	4.134	A1F	0.13	0.00	1/2	1-11/16	2.0	0.0320
P40-8M-20-1610	112859	40	4.010	3.956	4.331	A1F	0.13	0.00	1/2	1-11/16	2.4	0.0406
P44-8M-20-2012	112860	44	4.411	4.357	4.764	B1F	0.00	0.12	1/2	2-1/8	2.7	0.0585
P48-8M-20-2012	112861	48	4.812	4.758	5.157	B1F	0.00	0.12	1/2	2-1/8	3.7	0.0916
P56-8M-20-2012	112862	56	5.614	5.560	5.945	B1F	0.00	0.12	1/2	2-1/8	5.6	0.1768
P64-8M-20-2012	112863	64	6.416	6.362	6.772	B1F	0.00	0.12	1/2	2-1/8	7.7	0.3075
P72-8M-20-2012	112864	72	7.218	7.164	7.598	B1F	0.00	0.12	1/2	2-1/8	10	0.4991
P80-8M-20-2517	112865	80	8.020	7.966	8.386	B1F	0.00	0.62	1/2	2-11/16	13	0.7725
P90-8M-20-2517	112866	90	9.023	8.969	...	C2	0.31	0.31	1/2	2-11/16	12	0.9037
8M-30 F = 1.5"												
P22-8M-30-1108*	112867	22	2.206	2.152	2.559	A1F	0.00	0.63	1/2	1-1/8	0.64	0.0036
P24-8M-30-1108	112868	24	2.406	2.352	2.756	A1F	0.00	0.63	1/2	1-1/8	0.90	0.0058
P26-8M-30-1108	112869	26	2.607	2.553	2.953	A1F	0.00	0.63	1/2	1-1/8	1.1	0.0082
P28-8M-30-1108	112870	28	2.807	2.753	3.150	A1F	0.00	0.63	1/2	1-1/8	1.5	0.0124
P30-8M-30-1210	112871	30	3.008	2.954	3.346	A1F	0.00	0.50	1/2	1-1/4	1.5	0.0152
P32-8M-30-1210	112872	32	3.208	3.154	3.543	A1F	0.00	0.50	1/2	1-1/4	1.7	0.0199
P34-8M-30-1610	112873	34	3.409	3.355	3.819	A1F	0.00	0.50	1/2	1-11/16	1.8	0.0241
P36-8M-30-1610	112874	36	3.609	3.555	3.937	A1F	0.00	0.50	1/2	1-11/16	2.2	0.0323
P38-8M-30-1610	112875	38	3.810	3.756	4.134	A1F	0.00	0.50	1/2	1-11/16	2.5	0.0409
P40-8M-30-2012	112876	40	4.010	3.956	4.331	A1F	0.00	0.25	1/2	2-1/8	2.3	0.0453
P44-8M-30-2012	112877	44	4.411	4.357	4.764	A1F	0.00	0.25	1/2	2-1/8	3.2	0.0712
P48-8M-30-2012	112878	48	4.812	4.758	5.157	A1F	0.00	0.25	1/2	2-1/8	4.2	0.1069
P56-8M-30-2012	112879	56	5.614	5.560	5.945	A1F	0.00	0.25	1/2	2-1/8	6.3	0.2087
P64-8M-30-2517	112880	64	6.416	6.362	6.772	B1F	0.00	0.25	1/2	2-11/16	9.5	0.4044
P72-8M-30-2517	112881	72	7.218	7.164	7.598	B1F	0.00	0.25	1/2	2-11/16	13	0.6599
P80-8M-30-2517	112882	80	8.020	7.966	8.386	B1F	0.00	0.25	1/2	2-11/16	16	1.019
P90-8M-30-2517	112883	90	9.023	8.969	...	C2	0.13	0.13	1/2	2-11/16	22	1.650
P112-8M-30-2517	112884	112	11.229	11.175	...	C2	0.13	0.13	1/2	2-11/16	24	1.764
P144-8M-30-2517	112849	114	14.437	14.383	...	D3	0.38	0.13	1/2	2-11/16	31	6.014

TAPER-LOCK sprockets limited to torque capacity of bushing.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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SPECIFICATION



HT TAPER-LOCK Sprockets 8MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			P.D.	O.D.	FLANGE		E	M	Min.	Max		
			F = 2.33"									
P28-8M-50-1108*	112885	28	2.807	2.753	3.150	A1F	0.00	1.50	1/2	1-1/8	2.1	0.0182
P30-8M-50-1210	112886	30	3.008	2.954	3.346	A1F	0.00	1.38	1/2	1-1/4	2.2	0.0231
P32-8M-50-1210	114821	32	3.208	3.154	3.543	A1F	0.00	1.38	1/2	1-1/4	2.3	0.0281
P34-8M-50-1610	114822	34	3.409	3.355	3.819	A1F	0.00	1.38	1/2	1-11/16	4.0	0.0457
P36-8M-50-1610	112889	36	3.609	3.555	3.937	A1F	0.00	1.38	1/2	1-11/16	2.7	0.0431
P38-8M-50-1610	112890	38	3.810	3.756	4.134	A1F	0.00	1.38	1/2	1-11/16	3.1	0.0540
P40-8M-50-2012	112891	40	4.010	3.956	4.331	A1F	0.00	1.13	1/2	2-1/8	3.5	0.0685
P44-8M-50-2012	112892	44	4.411	4.357	4.764	A1F	0.00	1.13	1/2	2-1/8	4.3	0.0999
P48-8M-50-2012	112893	48	4.812	4.758	5.157	A1F	0.00	1.13	1/2	2-1/8	5.5	0.1491
P56-8M-50-2517	112894	56	5.614	5.560	5.945	A1F	0.00	0.63	1/2	2-11/16	8.1	0.2957
P64-8M-50-2517	112895	64	6.416	6.362	6.772	A1F	0.00	0.63	1/2	2-11/16	12	0.5272
P72-8M-50-2517	112896	72	7.218	7.164	7.598	A1F	0.00	0.63	1/2	2-11/16	16	0.8625
P80-8M-50-2517	112897	80	8.020	7.966	8.386	A1F	0.00	0.63	1/2	2-11/16	20	1.343
P90-8M-50-3020	112898	90	9.023	8.969	...	A1	0.00	0.38	7/8	3-1/4	27	2.277
P112-8M-50-3020	112899	112	11.229	11.175	...	A2	0.00	0.38	7/8	3-1/4	30	3.746
P144-8M-50-3020	114833	144	14.437	14.383	...	A3	0.00	0.38	7/8	3-1/4	49	8.988
P192-8M-50-3020	112901	192	19.249	19.195	...	A3	0.00	0.38	7/8	3-1/4	108	32.21
			F = 3.75"									
P34-8M-85-1615	114823	34	3.409	3.355	3.810	A1F	0.75	1.50	1/2	1-11/16	3.9	0.0547
P36-8M-85-1615	114825	36	3.609	3.555	4.009	A1F	0.75	1.50	1/2	1-11/16	4.4	0.0694
P40-8M-85-2012	114828	40	4.010	3.956	4.410	A1F	1.25	1.25	1/2	2-1/8	4.7	0.0970
P44-8M-85-2012	114504	44	4.411	4.357	4.764	A1F	1.25	1.25	1/2	2-1/8	5.9	0.1447
P48-8M-85-2012	114505	48	4.812	4.758	5.212	A1F	1.25	1.25	1/2	2-1/8	7.6	0.2146
P56-8M-85-2517	114506	56	5.614	5.560	6.014	A1F	0.81	1.19	1/2	2-11/16	11	0.4058
P64-8M-85-2517	114507	64	6.416	6.362	6.716	A1F	0.59	1.41	1/2	2-11/16	15	0.6987
P72-8M-85-3020	114508	72	7.218	7.164	7.500	A1F	0.88	0.88	7/8	3-1/4	18	1.121
P80-8M-85-3020	114509	80	8.020	7.966	8.420	A1F	0.50	1.25	7/8	3-1/4	22	1.642
P90-8M-85-3020	114510	90	9.023	8.969	...	A1	0.50	1.25	7/8	3-1/4	32	2.846
P112-8M-85-3020	114511	112	11.229	11.175	...	A2	0.50	1.25	7/8	3-1/4	33	4.621
P144-8M-85-3535	114834	144	14.437	14.383	...	A3	0.00	0.25	1-3/16	3-15/16	54	11.06
P192-8M-85-3535	114513	192	19.249	19.195	...	A3	0.13	0.13	1-3/16	3-15/16	125	39.63

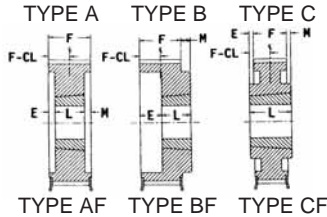
14 MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			P.D.	O.D.	FLANGE		E	M	Min.	Max		
			F = 2.13"									
P28-14M-40-2012*	112902	28	4.912	4.802	5.560	A1F	0.00	0.88	1/2	2-1/8	5.9	0.1531
P29-14M-40-2012	112903	29	5.088	4.978	5.560	A1F	0.00	0.88	1/2	2-1/8	6.6	0.1810
P30-14M-40-2012	112904	30	5.263	5.153	6.125	A1F	0.00	0.88	1/2	2-1/8	6.5	0.1935
P32-14M-40-2012	112905	32	5.614	5.504	6.125	A1F	0.00	0.88	1/2	2-1/8	8.0	0.2651
P34-14M-40-2012	112906	34	5.965	5.855	6.500	A1F	0.00	0.88	1/2	2-1/8	9.4	0.3498
P36-14M-40-2517	112907	36	6.316	6.206	6.875	A1F	0.00	0.38	1/2	2-11/16	11	0.4443
P38-14M-40-2517	112908	38	6.667	6.557	7.219	A1F	0.00	0.38	1/2	2-11/16	12	0.5658
P40-14M-40-2517	112909	40	7.018	6.908	7.500	A1F	0.00	0.38	1/2	2-11/16	14	0.7134
P44-14M-40-2517	112910	44	7.720	7.610	8.343	A1F	0.00	0.38	1/2	2-11/16	18	1.046
P48-14M-40-2517	112911	48	8.421	8.311	8.937	A1F	0.00	0.38	1/2	2-11/16	22	1.527
P52-14M-40-2517	112912	52	9.123	9.013	9.687	A1F	0.00	0.38	1/2	2-11/16	26	2.126
P56-14M-40-2517	112913	56	9.825	9.715	10.375	A1F	0.00	0.38	1/2	2-11/16	31	2.878
P60-14M-40-3020	112914	60	10.527	10.417	11.062	A2F	0.00	0.13	7/8	3-1/4	29	3.177
P64-14M-40-3020	112915	64	11.229	11.119	11.750	A2F	0.00	0.13	7/8	3-1/4	31	3.872
P68-14M-40-3020	112916	68	11.930	11.820	12.500	A2F	0.00	0.13	7/8	3-1/4	31	4.446
P72-14M-40-3020	112917	72	12.632	12.522	13.187	A2F	0.00	0.13	7/8	3-1/4	34	5.410
P80-14M-40-3020	114840	80	14.036	13.926	14.625	A3F	0.00	0.13	7/8	3-1/4	34	7.474
P90-14M-40-3020	114851	90	15.790	15.680	...	A3	0.00	0.13	7/8	3-1/4	40	9.396
P112-14M-40-3020	114470	112	19.650	19.540	...	A3	0.00	0.13	7/8	3-1/4	101	29.66
P144-14M-40-3020	114471	144	25.264	25.154	...	A3	0.00	0.13	7/8	3-1/4	154	75.16
P168-14M-40-3020	114852	168	29.475	29.265	...	A3	0.00	0.13	7/8	3-1/4	133	113.3
P192-14M-40-3020	114853	192	33.686	33.576	...	A3	0.00	0.13	7/8	3-1/4	168	189.8

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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HT TAPER-LOCK Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

14MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			P.D.	O.D.	FLANGE		E	M	Min.	Max		
14M-55												
F = 2.75"												
P28-14M-55-2012	112922	28	4.912	4.802	5.560	A1F	0.00	1.50	1/2	2-1/8	7.4	0.1948
P29-14M-55-2012	112923	29	5.088	4.978	5.560	A1F	0.00	1.50	1/2	2-1/8	8.4	0.2314
P30-14M-55-2517	114836	30	5.263	5.153	6.125	A1F	0.00	1.00	1/2	2-11/16	7.4	0.2371
P32-14M-55-2517	112925	32	5.614	5.504	6.125	A1F	0.00	1.00	1/2	2-11/16	9.3	0.3276
P34-14M-55-2517	112926	34	5.965	5.855	6.500	A1F	0.00	1.00	1/2	2-11/16	11	0.4379
P36-14M-55-2517	112927	36	6.316	6.206	6.875	A1F	0.00	1.00	1/2	2-11/16	12	0.5400
P38-14M-55-2517	112928	38	6.667	6.557	7.219	A1F	0.00	1.00	1/2	2-11/16	14	0.6868
P40-14M-55-2517	112929	40	7.018	6.908	7.500	A1F	0.00	1.00	1/2	2-11/16	17	0.8719
P44-14M-55-2517	112930	44	7.720	7.610	8.343	A1F	0.00	1.00	1/2	2-11/16	20	1.234
P48-14M-55-3020	112931	48	8.421	8.311	8.937	A1F	0.00	0.75	7/8	3-1/4	24	1.840
P52-14M-55-3020	112932	52	9.123	9.013	9.687	A1F	0.00	0.75	7/8	3-1/4	30	2.573
P56-14M-55-3020	112933	56	9.825	9.715	10.375	A1F	0.00	0.75	7/8	3-1/4	35	3.489
P60-14M-55-3020	112934	60	10.527	10.417	11.062	A1F	0.00	0.75	7/8	3-1/4	42	4.647
P64-14M-55-3020	112935	64	11.229	11.119	11.750	A1F	0.00	0.75	7/8	3-1/4	48	6.012
P68-14M-55-3020	112936	68	11.930	11.820	12.500	A2F	0.00	0.75	7/8	3-1/4	40	5.909
P72-14M-55-3020	112937	72	12.632	12.522	13.187	A2F	0.00	0.75	7/8	3-1/4	45	7.387
P80-14M-55-3020	114841	80	14.036	13.926	14.625	A3F	0.00	0.75	7/8	3-1/4	42	9.021
P90-14M-55-3020	114859	90	15.790	15.680	...	A3	0.00	0.75	7/8	3-1/4	45	12.36
P112-14M-55-3020	114472	112	19.650	19.540	...	A3	0.00	0.75	7/8	3-1/4	117	36.86
P144-14M-55-3020	114854	144	25.264	25.154	...	A3	0.00	0.75	7/8	3-1/4	98	65.38
P168-14M-55-3020	114860	168	29.475	29.265	...	A3	0.19	0.56	7/8	3-1/4	146	150.2
P192-14M-55-3535	114755	192	33.686	33.576	...	C3	0.00	0.75	1-3/16	3-15/16	432	404.3
14M-85												
F = 4"												
P28-14M-85-2012*	112944	28	4.912	4.802	5.560	A1F	1.31	1.44	1/2	2-1/8	10	0.2787
P29-14M-85-2012*	112945	29	5.088	4.978	5.560	A1F	1.31	1.44	1/2	2-1/8	12	0.3321
P30-14M-85-2517	114837	30	5.263	5.153	6.125	A1F	0.50	1.75	1/2	2-11/16	10	0.3326
P32-14M-85-2517	112947	32	5.614	5.504	6.125	A1F	0.81	1.44	1/2	2-11/16	13	0.4590
P34-14M-85-2517	112948	34	5.965	5.855	6.500	A1F	0.81	1.44	1/2	2-11/16	15	0.6143
P36-14M-85-3020	112949	36	6.316	6.206	6.875	A1F	0.53	1.47	7/8	3-1/4	14	0.6948
P38-14M-85-3020	112950	38	6.667	6.557	7.219	A1F	0.53	1.47	7/8	3-1/4	17	0.8975
P40-14M-85-3020	112951	40	7.018	6.908	7.500	A1F	0.53	1.47	7/8	3-1/4	20	1.161
P44-14M-85-3020	112952	44	7.720	7.610	8.343	A1F	0.53	1.47	7/8	3-1/4	24	1.615
P48-14M-85-3020	112953	48	8.421	8.311	8.937	A1F	0.53	1.47	7/8	3-1/4	31	2.432
P52-14M-85-3535	112954	52	9.123	9.013	9.687	A1F	0.00	0.50	1-3/16	3-15/16	37	3.356
P56-14M-85-3535	112955	56	9.825	9.715	10.375	A1F	0.00	0.50	1-3/16	3-15/16	52	5.300
P60-14M-85-3535	112956	60	10.527	10.417	11.062	A1F	0.00	0.50	1-3/16	3-15/16	63	7.128
P64-14M-85-3535	112957	64	11.229	11.119	11.750	A1F	0.00	0.50	1-3/16	3-15/16	74	9.334
P68-14M-85-3535	112958	68	11.930	11.820	12.500	A2F	0.00	0.50	1-3/16	3-15/16	63	9.169
P72-14M-85-3535	112959	72	12.632	12.522	13.187	A1F	0.00	0.50	1-3/16	3-15/16	97	15.19
P80-14M-85-3535	112960	80	14.036	13.926	14.625	A2F	0.00	0.50	1-3/16	3-15/16	63	13.04
P90-14M-85-3535	114474	90	15.790	15.680	...	A2	0.00	0.50	1-3/16	3-15/16	72	18.14
P112-14M-85-3535	114844	112	19.650	19.540	...	A3	0.00	0.50	1-3/16	3-15/16	131	44.18
P144-14M-85-4040	114855	144	25.264	25.154	...	A3	0.00	0.00	1-7/16	4-7/16	137	92.10
P168-14M-85-4040	114489	168	29.475	29.265	...	A3	0.00	0.00	1-7/16	4-7/16	192	194.5
P192-14M-85-4040	114850	192	33.686	33.576	...	A3	0.00	0.00	1-7/16	4-7/16	448	444.6

TAPER-LOCK Sprockets limited to torque capacity of bushing.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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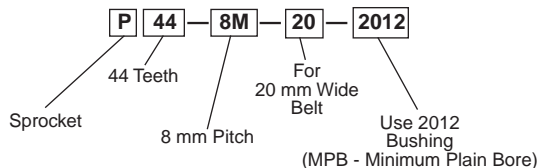
SPECIFICATION



HT TAPER-LOCK Sprockets



NOMENCLATURE EXAMPLE



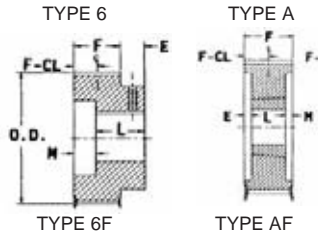
14MM SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			TYPE	DIMENSIONS (IN.)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			P.D.	O.D.	FLANGE		E	M	Min.	Max.		
14M-115			F = 5.25"									
P30-14M-115-2517	114838	30	5.263	5.153	5.763	A1F	1.75	1.75	1/2	2-11/16	13	0.4386
P32-14M-115-2517	114517	32	5.614	5.504	6.114	A1F	1.75	1.75	1/2	2-11/16	16	0.5873
P34-14M-115-2517	114518	34	5.965	5.855	6.465	A1F	1.75	1.75	1/2	2-11/16	19	0.7908
P36-14M-115-3020	114519	36	6.316	6.206	6.816	A1F	1.63	1.63	7/8	3-1/4	18	0.8766
P38-14M-115-3020	114494	38	6.667	6.557	7.167	A1F	1.63	1.63	7/8	3-1/4	20	1.100
P40-14M-115-3020	114475	40	7.018	6.908	7.518	A1F	1.63	1.63	7/8	3-1/4	23	1.357
P44-14M-115-3535	114522	44	7.720	7.610	8.395	A1F	0.88	0.88	1-3/16	3-15/16	30	2.144
P48-14M-115-3535	114523	48	8.421	8.311	8.941	A1F	0.88	0.88	1-3/16	3-15/16	40	3.277
P52-14M-115-4040	114524	52	9.123	9.013	9.687	A1F	0.63	0.63	1-7/16	4-7/16	47	4.545
P56-14M-115-4040	114525	56	9.825	9.715	10.355	A1F	0.63	0.63	1-7/16	4-7/16	58	6.335
P60-14M-115-4040	114526	60	10.527	10.417	11.067	A1F	0.63	0.63	1-7/16	4-7/16	70	8.589
P64-14M-115-4545	114527	64	11.229	11.119	11.750	A1F	0.38	0.38	1-15/16	4-15/16	82	11.47
P68-14M-115-4545	114528	68	11.930	11.820	12.500	A1F	0.38	0.38	1-15/16	4-15/16	97	14.91
P72-14M-115-4545	114529	72	12.632	12.522	13.066	A1F	0.00	0.75	1-15/16	4-15/16	113	19.06
P80-14M-115-4545	114530	80	14.036	13.926	14.620	A2F	0.38	0.38	1-15/16	4-15/16	148	29.66
P90-14M-115-4545	114476	90	15.790	15.680	...	A2	0.38	0.38	1-15/16	4-15/16	117	28.30
P112-14M-115-4545	114477	112	19.650	19.540	...	A2	0.00	0.75	1-15/16	4-15/16	173	64.72
P144-14M-115-4545	114856	144	25.264	25.154	...	A3	0.38	0.38	1-15/16	4-15/16	120	172.2
P168-14M-115-4545	114848	168	29.475	29.265	...	A3	0.38	0.38	1-15/16	4-15/16	223	243.3
P192-14M-115-4545	114482	192	33.686	33.576	...	A3	0.38	0.38	1-15/16	4-15/16	475	496.5
P216-14M-115-6050	114857	216	37.896	37.786	...	A3	0.00	0.25	4-7/16	6	686	378.0
14M-170			F = 7.38"									
P40-14M-170-3535*	114539	40	7.018	6.908	7.518	A1F	1.94	1.94	1-3/16	3-15/16	29	1.780
P44-14M-170-3535	114540	44	7.720	7.610	8.395	A1F	1.94	1.94	1-3/16	3-15/16	39	2.828
P48-14M-170-3535	114541	48	8.421	8.311	8.941	A1F	1.94	1.94	1-3/16	3-15/16	51	4.283
P52-14M-170-4040	114542	52	9.123	9.013	9.687	A1F	1.13	2.25	1-7/16	4-7/16	59	5.877
P56-14M-170-4040	114543	56	9.825	9.715	10.355	A1F	1.13	2.25	1-7/16	4-7/16	71	8.051
P60-14M-170-4545	114544	60	10.527	10.417	11.067	A1F	0.75	2.13	1-15/16	4-15/16	83	10.85
P64-14M-170-4545	114545	64	11.229	11.119	11.750	A1F	0.63	2.25	1-15/16	4-15/16	94	13.71
P68-14M-170-4545	114546	68	11.930	11.820	12.500	A1F	0.63	2.25	1-15/16	4-15/16	113	18.15
P72-14M-170-4545	114547	72	12.632	12.522	13.066	A1F	0.63	2.25	1-15/16	4-15/16	130	23.00
P80-14M-170-4545	114548	80	14.036	13.926	14.625	A1F	1.03	1.84	1-15/16	4-15/16	166	35.12
P90-14M-170-4545	114478	90	15.790	15.680	...	A2	0.63	2.25	1-15/16	4-15/16	159	42.03
P112-14M-170-4545	114479	112	19.650	19.540	...	D2	0.25	3.12	1-15/16	4-15/16	215	81.30
P144-14M-170-6050	114858	144	25.264	25.154	...	A3	1.19	1.19	4-7/16	6	264	207.9
P168-14M-170-6050	114499	168	29.475	29.265	...	A3	1.19	1.19	4-7/16	6	462	384.2
P192-14M-170-6050	117846	192	33.686	33.576	...	A3	1.19	1.19	4-7/16	6	616	655.7
P216-14M-170-6050	117848	216	37.896	37.786	...	A2	1.19	1.19	4-7/16	6	563	851.7

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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HT Sprockets



PLAIN BORE HT SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS			DIMENSIONS (INCHES)			Bore Range		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			Pitch	O.D.	FLANGE	E	L	M	Min.	Max.		
			8 MM Pitch			Type 6F						
P22-8M-20-MPB	110700	22	2.206	2.152	2.606	0.60	1.80	0.00	1/2	1-3/16	1.3	0.0048
P22-8M-30-MPB	110720	22	2.206	2.152	2.606	0.60	2.10	0.00	1/2	1-3/16	1.6	0.0060
P24-8M-30-MPB	110721	24	2.406	2.352	2.756	0.60	2.10	0.00	1/2	1-1/4	1.9	0.0061
P26-8M-30-MPB	110722	26	2.607	2.553	2.906	0.80	2.30	0.00	1/2	1-1/4	2.4	0.0087
P28-8M-50-MPB	114484	28	2.807	2.753	3.207	0.60	2.50	0.50	1/2	1-1/2	3.7	0.0240
P30-8M-50-MPB	110741	30	3.008	2.954	3.346	0.60	2.50	0.50	1/2	1-1/2	4.3	0.0319
P38-8M-85-MPB	114827	38	3.810	3.756	4.201	0.60	3.30	1.10	1/2	1-7/8	9.7	0.1204
			14 MM Pitch			Type 6F						
P28-14M-85-MPB	110830	28	4.912	4.802	5.562	1.00	4.00	1.00	1-1/4	2-11/16	17	0.3128
P29-14M-85-MPB	110831	29	5.088	4.978	5.562	1.00	4.00	1.00	1-1/4	2-11/16	19	0.3654
P28-14M-115-MPB	110855	28	4.912	4.802	5.562	1.30	5.00	1.50	1-1/4	2-11/16	22	0.4077
P29-14M-115-MPB	110856	29	5.088	4.978	5.562	1.30	5.00	1.50	1-1/4	2-11/16	24	0.4768
P36-14M-170-MPB	110880	36	6.316	6.206	6.816	1.30	6.00	2.60	1-1/2	3-3/8	47	1.593
P38-14M-170-MPB	110881	38	6.667	6.557	7.167	1.30	6.00	2.60	1-1/2	3-3/8	54	1.987
P40-14M-170-MPB	110882	40	7.018	6.908	7.518	1.30	6.00	2.60	1-1/2	3-3/4	60	2.479

FIN-FAN SPROCKETS

For Cooling Tower Drives

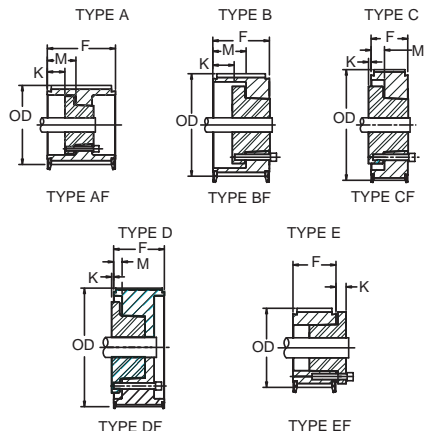
TAPER-LOCK			14 MM Pitch			Type A						
P168-14M-40-3020	114852	168	29.475	29.265	...	0.00	2.00	0.10	7/8	3-1/4	133	113.3
P192-14M-40-3020	114853	192	33.686	33.576	...	0.00	2.00	0.10	7/8	3-1/4	168	189.8
P168-14M-55-3020	114860	168	29.475	29.265	...	0.00	2.00	0.80	7/8	3-1/4	146	150.2
F192-14M-55-3020	114993	192	33.686	33.576	...	0.00	2.00	0.80	7/8	3-1/4	162	170.9
F216-14M-55-3020	114994	216	37.896	37.786	...	0.00	2.00	0.80	7/8	3-1/4	195	254.6
QD			14 MM Pitch			Type A						
F168-14M-55-E	114375	168	29.475	29.265	...	0.60	1.60	0.60	7/8	3-1/2	151.7	102.6
F192-14M-55-E	114376	192	33.686	33.576	...	0.60	1.60	0.60	7/8	3-1/2	127.8	143.5
F144-14M-85-E	114377	144	25.262	25.154	...	0.60	1.60	1.20	7/8	3-1/2	140.3	77.97
F168-14M-85-E	114378	168	29.475	29.265	...	0.00	1.60	1.20	7/8	3-1/2	175.1	129.5
F192-14M-85-E	114379	192	33.686	33.576	...	0.00	1.60	1.20	7/8	3-1/2	183.0	210.5
F216-14M-85-E	114380	216	37.896	37.786	...	0.00	1.60	1.20	7/8	3-1/2	218.1	288.9



SPECIFICATION



QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

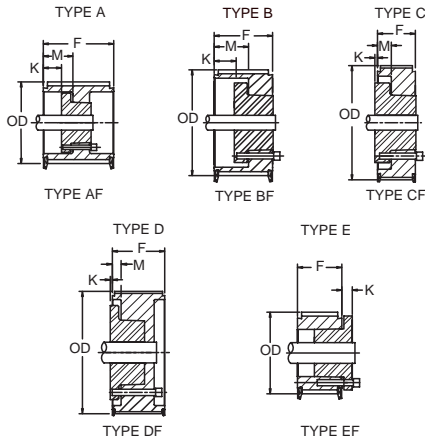
5MM QD HTD SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			Pitch	O.D.	FLANGE		M	K	Min.	Max.		
5M-15			F=0.89"									
P38-5M-15-JA	114641	38	2.381	2.336	2.613	E1F	0.00	0.51	1/2	1-1/4	0.6	0.0030
P40-5M-15-JA	114642	40	2.506	2.461	2.733	E1F	0.00	0.51	1/2	1-1/4	0.7	0.0039
P44-5M-15-JA	114643	44	2.757	2.712	3.090	E1F	0.00	0.51	1/2	1-1/4	0.9	0.0061
P48-5M-15-JA	114644	48	3.008	2.963	3.328	D1F	0.31	0.20	1/2	1-1/4	0.9	0.0076
P52-5M-15-JA	114645	52	3.258	3.213	3.566	D1F	0.31	0.20	1/2	1-1/4	1.1	0.0106
P56-5M-15-SH	114646	56	3.509	3.464	3.805	E1F	0.00	0.68	1/2	1-11/16	1.5	0.0169
P60-5M-15-SH	114647	60	3.760	3.715	4.044	E1F	0.00	0.68	1/2	1-11/16	1.8	0.0233
P64-5M-15-SH	114648	64	4.010	3.965	4.170	E1F	0.00	0.68	1/2	1-11/16	2.1	0.0312
P68-5M-15-SDS	114649	68	4.261	4.216	4.520	D1F	0.14	0.56	1/2	2	2.1	0.0369
P72-5M-15-SDS	114650	72	4.511	4.466	4.670	D1F	0.14	0.56	1/2	2	2.4	0.0463
P80-5M-15-SDS	114651	80	5.013	4.968	...	C1	0.14	0.56	1/2	2	3.1	0.0732
P90-5M-15-SDS	114652	90	5.639	5.594	...	C1	0.14	0.56	1/2	2	4.1	0.1204
P112-5M-15-SDS	114653	112	7.018	6.973	...	C1	0.14	0.56	1/2	2	6.9	0.3033
5M-25			F=1.28"									
P38-5M-25-JA	114655	38	2.381	2.336	2.613	E1F	0.00	0.51	1/2	1-1/4	0.9	0.0043
P40-5M-25-JA	114656	40	2.506	2.461	2.733	E1F	0.00	0.51	1/2	1-1/4	1.0	0.0056
P44-5M-25-JA	114657	44	2.757	2.712	3.090	E1F	0.00	0.51	1/2	1-1/4	1.3	0.0088
P48-5M-25-JA	114658	48	3.008	2.963	3.328	B1F	0.72	0.21	1/2	1-1/4	1.1	0.0097
P52-5M-25-JA	114659	52	3.258	3.213	3.566	B1F	0.72	0.21	1/2	1-1/4	1.3	0.0133
P56-5M-25-SH	114660	56	3.509	3.464	3.805	C1F	0.47	0.21	1/2	1-11/16	1.7	0.0206
P60-5M-25-SH	114661	60	3.760	3.715	4.044	C1F	0.47	0.21	1/2	1-11/16	2.1	0.0285
P64-5M-25-SH	114662	64	4.010	3.965	4.170	C1F	0.47	0.21	1/2	1-11/16	2.4	0.0379
P68-5M-25-SDS	114663	68	4.261	4.216	4.520	C1F	0.53	0.17	1/2	2	2.6	0.0479
P72-5M-25-SDS	114664	72	4.511	4.466	4.670	C1F	0.53	0.17	1/2	2	2.8	0.0564
P80-5M-25-SDS	114665	80	5.013	4.968	...	C1	0.53	0.17	1/2	2	3.6	0.0875
P90-5M-25-SDS	114666	90	5.639	5.594	...	C1	0.53	0.17	1/2	2	4.7	0.1414
P112-5M-25-SDS	114667	112	7.018	6.973	...	C1	0.53	0.17	1/2	2	7.7	0.3595

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

8MM QD HTD SPROCKETS

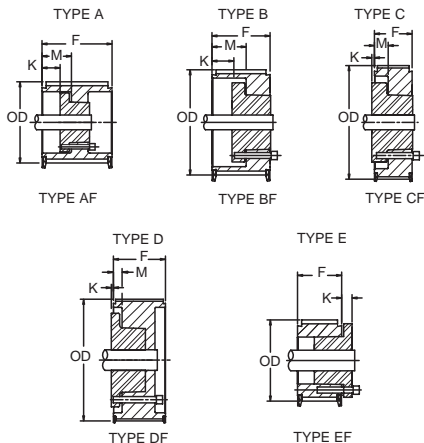
SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		Bore Sizes		Approx. Weight (LBS.)	Approx. WR ^{^2} (Lb-Ft ^{^2})
			Pitch	O.D.	FLANGE		M	K	Min.	Max.		
8M-20												
P24-8M-20-JA	110701	24	2.406	2.352	2.756	E1F	0.00	0.51	1/2	1-1/4	0.8	0.0039
P26-8M-20-JA	110702	26	2.607	2.553	2.906	E1F	0.00	0.51	1/2	1-1/4	1.0	0.0059
P28-8M-20-QT	110703	28	2.807	2.759	3.207	E1F	0.00	1.42	3/8	1-1/2	1.1	0.0078
P30-8M-20-QT	110704	30	3.008	2.958	3.408	E1F	0.00	1.42	3/8	1-1/2	1.3	0.0110
P32-8M-20-QT	110705	32	3.208	3.156	3.608	E1F	0.00	1.42	3/8	1-1/2	1.6	0.0148
P34-8M-20-SH	110706	34	3.409	3.355	3.810	E1F	0.00	0.68	1/2	1-11/16	1.6	0.0181
P36-8M-20-SH	110707	36	3.609	3.555	4.009	C1F	0.31	0.37	1/2	1-11/16	1.7	0.0213
P38-8M-20-SH	110708	38	3.810	3.756	4.210	C1F	0.31	0.37	1/2	2	2.0	0.0272
P40-8M-20-SH	111709	40	4.010	3.956	4.410	C1F	0.31	0.37	1/2	2	2.3	0.0353
P44-8M-20-SDS	110710	44	4.411	4.357	4.764	C1F	0.38	0.32	1/2	2	2.6	0.0490
P48-8M-20-SDS	110711	48	4.812	4.758	5.212	C1F	0.38	0.32	1/2	2	3.4	0.0771
P56-8M-20-SDS	110712	56	5.614	5.560	6.014	C1F	0.38	0.32	1/2	2	4.6	0.1370
P64-8M-20-SDS	110713	64	6.416	6.362	6.716	C1F	0.38	0.32	1/2	2	6.8	0.2639
P72-8M-20-SDS	110714	72	7.218	7.164	7.500	C1F	0.38	0.32	1/2	2	8.8	0.4298
P80-8M-20-SDS	110715	80	8.020	7.966	8.420	C1F	0.38	0.32	1/2	2	11	0.6433
P90-8M-20-SDS	110716	90	9.023	8.969	...	C2	0.38	0.32	1/2	2	12	0.9369
8M-30 F = 1.5"												
P28-8M-30-QT	110723	28	2.807	2.759	3.207	E1F	0.00	1.20	1/2	1-1/2	1.4	0.0104
P30-8M-30-QT	110724	30	3.008	2.958	3.408	E1F	0.00	1.20	3/8	1-1/2	1.8	0.0146
P32-8M-30-QT	110725	32	3.208	3.156	3.608	E1F	0.00	1.20	3/8	1-1/2	2.1	0.0197
P34-8M-30-SH	110726	34	3.409	3.355	3.810	B1F	0.69	0.01	1/2	1-11/16	1.6	0.0186
P36-8M-30-SH	110727	36	3.609	3.555	4.009	B1F	0.69	0.01	1/2	1-11/16	2.0	0.0259
P38-8M-30-SH	110728	38	3.810	3.756	4.210	B1F	0.69	0.01	1/2	1-11/16	2.3	0.0328
P40-8M-30-SH	110729	40	4.010	3.956	4.410	B1F	0.69	0.01	1/2	1-11/16	2.8	0.0435
P44-8M-30-SDS	110730	44	4.411	4.357	4.764	B1F	0.75	0.05	1/2	2	3.0	0.0595
P48-8M-30-SDS	110731	48	4.812	4.758	5.212	B1F	0.75	0.05	1/2	2	3.8	0.0880
P56-8M-30-SDS	110732	56	5.614	5.560	6.014	B1F	0.75	0.05	1/2	2	5.2	0.1633
P64-8M-30-SK	110733	64	6.416	6.362	6.716	C1F	0.25	0.64	1/2	2-5/8	8.6	0.3421
P72-8M-30-SK	110734	72	7.218	7.164	7.500	C1F	0.25	0.64	1/2	2-5/8	12	0.5710
P80-8M-30-SK	110735	80	8.020	7.966	8.420	C2	0.25	0.64	1/2	2-5/8	11	0.6487
P90-8M-30-SK	110736	90	9.023	8.969	...	C2	0.25	0.64	1/2	2-5/8	16	1.2862
P112-8M-30-SK	110737	112	11.229	11.175	...	C2	0.25	0.64	1/2	2-5/8	22	2.703



SPECIFICATION



QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

8MM QD HTD SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		BORE SIZES		Approx. Weight (Lbs.)	Approx. WR ² (Lb-Ft ²)
			PITCH	O.D.	FLANGE		M	K	MIN.	MAX.		
8M-50												
F = 2.38"												
P28-8M-50-JA	110738	28	2.807	2.759	3.207	A1F	0.81	0.30	1/2	1-1/4	1.7	0.0127
P30-8M-50-JA	110739	30	3.008	2.958	3.408	A1F	0.81	0.30	1/2	1-1/4	1.9	0.0172
P32-8M-50-QT	110742	32	3.208	3.156	3.608	A1F	0.81	0.30	3/8	1-1/2	2.1	0.0214
P34-8M-50-SH	110743	34	3.409	3.355	3.810	D1F	0.50	0.18	1/2	1-11/16	2.2	0.0263
P36-8M-50-SH	110744	36	3.609	3.555	4.009	D1F	0.50	0.18	1/2	1-11/16	2.8	0.0367
P38-8M-50-SH	110745	38	3.810	3.756	4.210	D1F	0.50	0.18	1/2	1-11/16	3.1	0.0462
P40-8M-50-SH	110746	40	4.010	3.956	4.410	D1F	0.50	0.18	1/2	1-11/16	3.9	0.0632
P44-8M-50-SD	110747	44	4.411	4.357	4.764	D1F	0.56	1.74	1/2	2	5.5	0.1068
P48-8M-50-SD	110748	48	4.812	4.758	5.212	D1F	0.56	1.74	1/2	2	7.2	0.1644
P56-8M-50-SK	110749	56	5.614	5.560	6.014	D1F	0.56	0.33	1/2	2-15/16	11	0.3314
P64-8M-50-SK	110750	64	6.416	6.362	6.716	D1F	0.56	0.33	1/2	2-15/16	10	0.4400
P72-8M-50-SK	110751	72	7.218	7.164	7.500	D1F	0.56	0.33	1/2	2-15/16	16	0.8488
P80-8M-50-SF	110752	80	8.020	7.966	8.420	D1F	0.56	0.38	1/2	2-15/16	20	1.335
P90-8M-50-SF	110753	90	9.023	8.969	...	D1	0.56	0.38	1/2	2-15/16	25	2.102
P112-8M-50-SF	110754	112	11.229	11.175	...	D2	0.75	0.19	1/2	2-15/16	32	4.152
P144-8M-50-E	110755	144	14.437	14.383	...	D3	0.38	0.82	7/8	3-1/2	45	9.391
P192-8M-50-E	110756	192	19.249	19.195	...	D3	0.38	0.82	7/8	3-1/2	65	20.42
8M-85												
F = 3.75"												
P34-8M-85-SH	110760	34	3.409	3.355	3.810	A1F	1.50	0.82	1/2	1-11/16	3.1	0.0376
P36-8M-85-SH	110761	36	3.609	3.555	4.009	A1F	1.50	0.82	1/2	1-11/16	3.9	0.0535
P38-8M-85-SH	110762	38	3.810	3.756	4.210	A1F	1.50	0.82	1/2	1-11/16	4.4	0.0671
P40-8M-85-SD	110763	40	4.010	3.956	4.410	A1F	1.25	0.55	1/2	2	4.9	0.0836
P44-8M-85-SD	110764	44	4.411	4.357	4.764	A1F	1.25	0.55	1/2	2	7.8	0.1589
P48-8M-85-SD	110765	48	4.812	4.758	5.212	A1F	1.25	0.55	1/2	2	11	0.2496
P56-8M-85-SK	110766	56	5.614	5.560	6.014	A1F	1.25	0.36	1/2	2-5/8	12	0.4191
P64-8M-85-SK	110767	64	6.42	6.362	6.716	A1F	1.25	0.36	1/2	2-5/8	17	0.7664
P72-8M-85-SF	110768	72	7.218	7.164	7.500	A1F	1.25	0.31	1/2	2-15/16	19	1.114
P80-8M-85-SF	110769	80	8.020	7.966	8.420	A1F	1.25	0.31	1/2	2-15/16	29	1.982
P90-8M-85-SF	110770	90	9.023	8.969	...	A1	1.25	0.31	1/2	2-15/16	26	2.253
P112-8M-85-SF	110771	112	11.229	11.175	...	A2	1.25	0.31	1/2	2-15/16	38	5.286
P144-8M-85-E	110772	144	14.437	14.383	...	D3	1.06	0.14	7/8	3-1/2	61	14.031
P192-8M-85-E	110773	192	19.249	19.195	...	D3	1.06	0.14	7/8	3-1/2	76	26.80

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM QD HTD Sprockets

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		BORE SIZES		Approx. Weight (LBS.)	Approx. WR ² (Lb-Ft ²)
			PITCH	O.D.	FLANGE		M	K	MIN.	MAX.		
14M-40												
F = 2.13"												
P28-14M-40-SK	110780	28	4.912	4.808	5.562	E1F	0.00	0.89	0.5	2-5/8	5.8	0.1301
P29-14M-40-SK	110781	29	5.088	4.983	5.562	E1F	0.00	0.89	0.5	2-5/8	6.5	0.1561
P30-14M-40-SK	110782	30	5.263	5.157	5.763	D1F	0.44	0.45	0.5	2-5/8	6.2	0.1629
P32-14M-40-SK	110783	32	5.614	5.507	6.114	D1F	0.44	0.45	0.5	2-5/8	7.8	0.2310
P34-14M-40-SK	110784	34	5.965	5.858	6.465	D1F	0.44	0.45	0.5	2-5/8	9.4	0.3113
P36-14M-40-SF	110785	36	6.316	6.208	6.816	D1F	0.44	0.50	0.5	2-15/16	9.6	0.3693
P38-14M-40-SF	110786	38	6.667	6.559	7.167	D1F	0.44	0.50	0.5	2-15/16	12	0.5080
P40-14M-40-SF	110787	40	7.018	6.909	7.518	D1F	0.44	0.50	0.5	2-15/16	13	0.6096
P44-14M-40-E	110788	44	7.720	7.610	8.395	D1F	0.38	0.82	0.875	3-1/2	16	0.9305
P48-14M-40-E	110789	48	8.421	8.311	8.941	D1F	0.38	0.82	0.875	3-1/2	20	1.360
P52-14M-40-E	110790	52	9.123	9.013	9.687	D1F	0.25	0.95	0.875	3-1/2	25	1.991
P56-14M-40-E	110791	56	9.825	9.715	10.355	D1F	0.25	0.95	0.875	3-1/2	29	2.583
P60-14M-40-E	110792	60	10.527	10.417	11.067	D1F	0.44	0.76	0.875	3-1/2	34	3.494
P64-14M-40-E	110793	64	11.229	11.119	11.750	D1F	0.44	0.76	0.875	3-1/2	39	4.489
P68-14M-40-E	110794	68	11.930	11.820	12.500	D2F	0.44	0.76	0.875	3-1/2	34	4.368
P72-14M-40-E	110795	72	12.632	12.522	13.066	D2F	0.31	0.89	0.875	3-1/2	40	5.811
P80-14M-40-E	110796	80	14.036	13.926	14.620	D3F	0.44	0.76	0.875	3-1/2	39	7.005
P90-14M-40-E	110797	90	15.790	15.680	...	D3	0.25	0.95	0.875	3-1/2	40	8.633
P112-14M-40-E	110798	112	19.650	19.540	...	D3	0.25	0.95	0.875	3-1/2	67	21.62
P144-14M-40-E	110799	144	25.264	25.154	...	D3	0.25	0.95	0.875	3-1/2	66	38.99
P168-14M-40-F	110759	168	29.475	29.265	...	C3	0.37	1.79	1	4	91	74.83
P192-14M-40-F	110774	192	33.686	33.576	...	C3	0.37	1.79	1	4	108	117.1
14M-55												
F = 2.75"												
P28-14M-55-SK	110805	28	4.912	4.808	5.562	E1F	0.00	0.89	0.5	2-5/8	7.3	0.1657
P29-14M-55-SK	110806	29	5.088	4.983	5.562	E1F	0.00	0.89	0.5	2-5/8	8.2	0.1991
P30-14M-55-SK	110807	30	5.263	5.157	5.763	D1F	0.75	0.14	0.5	2-5/8	7.5	0.1989
P32-14M-55-SK	110808	32	5.614	5.507	6.114	D1F	0.75	0.14	0.5	2-5/8	9.5	0.2868
P34-14M-55-SK	110809	34	5.965	5.858	6.465	D1F	0.75	0.14	0.5	2-5/8	11	0.3851
P36-14M-55-SF	110810	36	6.316	6.208	6.816	D1F	0.75	0.19	0.5	2-15/16	11	0.4515
P38-14M-55-SF	110811	38	6.667	6.559	7.167	D1F	0.75	0.19	0.5	2-15/16	14	0.6139
P40-14M-55-SF	110812	40	7.018	6.909	7.518	D1F	0.75	0.19	0.5	2-15/16	15	0.7440
P44-14M-55-E	110813	44	7.720	7.610	8.395	D1F	0.56	0.64	0.875	3-1/2	19	1.136
P48-14M-55-E	110814	48	8.421	8.311	8.941	D1F	0.56	0.64	0.875	3-1/2	23	1.641
P52-14M-55-E	110815	52	9.123	9.013	9.687	D1F	0.56	0.64	0.875	3-1/2	30	2.454
P56-14M-55-E	110816	56	9.825	9.715	10.355	D1F	0.56	0.64	0.875	3-1/2	32	3.030
P60-14M-55-E	110817	60	10.527	10.417	11.067	D1F	0.56	0.64	0.875	3-1/2	38	4.038
P64-14M-55-F	110818	64	11.229	11.119	11.750	D1F	0.13	1.29	1	4	54	6.267
P68-14M-55-F	110819	68	11.930	11.820	12.500	D1F	0.13	1.29	1	4	62	8.029
P72-14M-55-F	110820	72	12.632	12.522	13.066	D1F	0.13	1.29	1	4	71	10.32
P80-14M-55-F	110821	80	14.036	13.926	14.620	D1F	0.13	1.29	1	4	89	15.76
P90-14M-55-F	110822	90	15.790	15.680	...	D2	0.13	1.29	1	4	61	12.67
P112-14M-55-F	110823	112	19.650	19.540	...	D3	0.13	1.29	1	4	80	25.72
P144-14M-55-F	110824	144	25.264	25.154	...	D3	0.13	1.29	1	4	90	55.45
P168-14M-55-F	110825	168	29.475	29.265	...	D3	0.13	1.29	1	4	111	95.26
P192-14M-55-F	110826	192	33.686	33.576	...	D3	0.13	1.29	1	4	134	149.7
P216-14M-55-F	110827	216	37.896	37.786	...	D3	0.13	1.29	1	4	159	223.9
14M-85												
F = 4"												
P30-14M-85-SK	110832	30	5.263	5.157	5.763	A1F	1.38	0.49	1/2	2-11/16	10	0.2715
P32-14M-85-SK	110833	32	5.614	5.507	6.114	A1F	1.38	0.49	1/2	2-5/8	13	0.3993
P34-14M-85-SK	110834	34	5.965	5.858	6.465	A1F	1.38	0.49	1/2	2-5/8	15	0.5387
P36-14M-85-SF	110835	36	6.316	6.208	6.816	A1F	1.5	0.56	1/2	2-15/16	15	0.6171
P38-14M-85-SF	110836	38	6.667	6.559	7.167	A1F	1.38	0.44	1/2	2-15/16	19	0.8559
P40-14M-85-SF	110837	40	7.018	6.909	7.518	A1F	1.38	0.44	1/2	2-15/16	22	1.097
P44-14M-85-E	110838	44	7.720	7.610	8.395	D1F	1.19	0.01	7/8	3-1/2	23	1.390
P48-14M-85-E	110839	48	8.421	8.311	8.941	D1F	1.19	0.01	7/8	3-1/2	29	2.133
P52-14M-85-E	110840	52	9.123	9.013	9.687	D1F	1.19	0.01	7/8	3-1/2	35	2.972
P56-14M-85-F	110841	56	9.825	9.715	10.355	D1F	0.75	0.67	1	4	46	4.426
P60-14M-85-F	110842	60	10.527	10.417	11.067	D1F	0.75	0.67	1	4	57	6.259
P64-14M-85-F	110843	64	11.229	11.119	11.750	D1F	0.75	0.67	1	4	64	7.866
P68-14M-85-F	110852	68	11.930	11.820	12.500	D1F	0.75	0.67	1	4	75	10.40
P72-14M-85-F	110844	72	12.632	12.522	13.066	D1F	0.75	0.67	1	4	89	13.74
P80-14M-85-F	110845	80	14.036	13.926	14.620	D1F	0.75	0.67	1	4	100	18.65
P90-14M-85-F	110846	90	15.790	15.680	...	D3	0.75	0.67	1	4	57	12.19
P112-14M-85-F	110847	112	19.650	19.540	...	D3	0.75	0.67	1	4	94	32.92
P144-14M-85-F	110848	144	25.264	25.154	...	D3	0.75	0.67	1	4	129	73.66
P168-14M-85-F	110849	168	29.475	29.265	...	D3	0.69	0.73	1	4	144	126.7
P192-14M-85-F	110850	192	33.686	33.576	...	D3	0.69	0.73	1	4	178	203.8
P216-14M-85-F	110851	216	37.896	37.786	...	D3	0.69	0.73	1	4	216	315.6

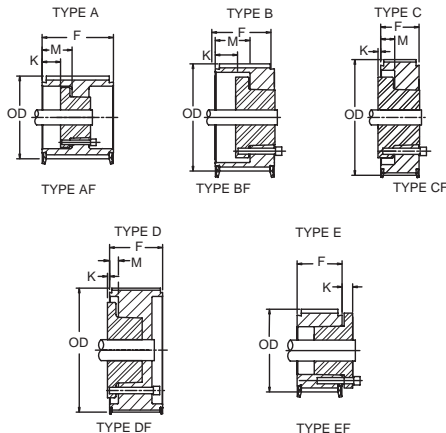
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SPECIFICATION



QD HTD Sprockets



The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

14MM QD HTD SPROCKETS

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		BORE SIZES		Approx. Weight (Lbs.)	Approx. WR ² (Lb-Ft ²)
			PITCH	O.D.	FLANGE		M	K	MIN.	MAX.		
14M-115												
F = 5.25"												
P30-14M-115-SK	110857	30	5.263	5.157	5.763	A1F	2.00	1.11	1/2	2-5/8	12	0.3441
P32-14M-115-SK	110858	32	5.614	5.507	6.114	A1F	2.00	1.11	1/2	2-5/8	16	0.5084
P34-14M-115-SK	110859	34	5.965	5.858	6.465	A1F	2.00	1.11	1/2	2-5/8	20	0.7035
P36-14M-115-SF	110860	36	6.316	6.208	6.816	A1F	2.00	1.06	1/2	2-15/16	19	0.7834
P38-14M-115-SF	110861	38	6.667	6.559	7.167	A1F	2.00	1.06	1/2	2-15/16	22	1.000
P40-14M-115-SF	110862	40	7.018	6.909	7.518	A1F	2.00	1.06	1/2	2-15/16	26	1.306
P44-14M-115-E	110863	44	7.720	7.610	8.395	A1F	2.00	0.80	7/8	3-1/2	27	1.717
P48-14M-115-E	110864	48	8.421	8.311	8.941	A1F	1.94	0.74	7/8	3-1/2	36	2.657
P52-14M-115-F	110865	52	9.123	9.013	9.687	D1F	1.38	0.05	1	4	48	4.133
P56-14M-115-F	110866	56	9.825	9.715	10.355	D1F	1.38	0.05	1	4	54	5.326
P60-14M-115-F	110867	60	10.527	10.417	11.067	D1F	1.38	0.05	1	4	63	7.105
P64-14M-115-J	110868	64	11.229	11.119	11.750	D1F	1.00	0.20	1-1/2	4-1/2	81	10.377
P68-14M-115-J	110869	68	11.930	11.820	12.500	D1F	1.00	0.20	1-1/2	4-1/2	90	12.89
P72-14M-115-J	110870	72	12.632	12.522	13.066	D1F	1.00	0.20	1-1/2	4-1/2	101	16.06
P80-14M-115-J	110871	80	14.036	13.926	14.620	D2F	1.00	0.20	1-1/2	4-1/2	108	21.04
P90-14M-115-J	110872	90	15.790	15.680	...	D2	1.00	0.20	1-1/2	4-1/2	121	29.10
P112-14M-115-J	110873	112	19.650	19.540	...	D3	1.00	0.20	1-1/2	4-1/2	117	46.65
P144-14M-115-J	110874	144	25.264	25.154	...	D3	1.06	0.14	1-1/2	4-1/2	157	113.9
P168-14M-115-J	110875	168	29.475	29.265	...	D3	1.06	0.14	1-1/2	4-1/2	198	209.1
P192-14M-115-J	110876	192	33.686	33.576	...	D3	1.06	0.14	1-1/2	4-1/2	240	265.8
P216-14M-115-J	110877	216	37.896	37.786	...	D3	1.06	0.14	1-1/2	4-1/2	284	401.7
14M-170												
F = 7.38"												
P44-14M-170-E	110883	44	7.720	7.610	8.395	A1F	2.88	1.68	7/8	3-1/2	35	2.273
P48-14M-170-E	110884	48	8.421	8.311	8.941	A1F	2.88	1.68	7/8	3-1/2	46	3.550
P52-14M-170-F	110885	52	9.123	9.013	9.687	A1F	2.44	1.02	1	4	61	5.430
P56-14M-170-F	110886	56	9.825	9.715	10.355	A1F	2.44	1.02	1	4	67	6.860
P60-14M-170-J	110887	60	10.527	10.417	11.067	A1F	2.28	1.08	1-1/2	4-1/2	81	9.546
P64-14M-170-J	110888	64	11.229	11.119	11.750	A1F	2.13	0.93	1-1/2	4-1/2	100	13.31
P68-14M-170-J	110897	68	11.930	11.820	12.500	A1F	2.13	0.93	1-1/2	4-1/2	108	16.08
P72-14M-170-J	110889	72	12.632	12.522	13.066	A1F	2.13	0.93	1-1/2	4-1/2	119	19.72
P80-14M-170-J	110890	80	14.036	13.926	14.620	A2F	2.13	0.93	1-1/2	4-1/2	129	26.66
P90-14M-170-J	110891	90	15.790	15.680	...	A2	2.13	0.93	1-1/2	4-1/2	163	41.42
P112-14M-170-M	110892	112	19.650	19.540	...	D3	1.44	0.30	2	5-1/2	188	63.86
P144-14M-170-M	110893	144	25.264	25.154	...	D3	1.44	0.30	2	5-1/2	240	146.9
P168-14M-170-M	110894	168	29.475	29.265	...	D3	1.44	0.30	2	5-1/2	279	247.5
P192-14M-170-M	110895	192	33.686	33.576	...	D3	1.44	0.30	2	5-1/2	541	746.7
P216-14M-170-M	110896	216	37.896	37.786	...	D3	1.44	0.30	2	5-1/2	443	774.6

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QD HTD Sprockets

20MM QD HTD Sprockets

SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		Bore Sizes		Approx. Weight (LBS.)
			Pitch	O.D.	FLANGE		M	K	Min.	Max	
20M-115											
F = 5.38"											
P34-20M-115-F	114668	34	8.522	8.352	9.449	A1F	1.44	0.02	1	4	42
P36-20M-115-F	114669	36	9.023	8.853	9.843	A1F	1.44	0.02	1	4	50
P38-20M-115-F	114670	38	9.524	9.354	10.443	A1F	1.44	0.02	1	4	55
P40-20M-115-F	114671	40	10.026	9.855	10.827	A1F	1.44	0.02	1	4	61
P44-20M-115-F	114672	44	11.028	10.858	11.811	A1F	1.44	0.02	1	4	74
P48-20M-115-J	114673	48	12.031	11.861	12.795	D1F	1.19	0.01	1-1/2	4-1/2	100
P52-20M-115-J	114674	52	13.033	12.863	13.764	D2F	1.19	0.01	1-1/2	4-1/2	96
P56-20M-115-J	114675	56	14.036	13.856	14.764	D2F	1.19	0.01	1-1/2	4-1/2	103
P60-20M-115-J	114676	60	15.038	14.868	15.927	D2F	1.19	0.01	1-1/2	4-1/2	110
P64-20M-115-J	114677	64	16.041	15.871	16.929	D2F	1.19	0.01	1-1/2	4-1/2	119
P68-20M-115-J	114678	68	17.032	16.873	17.927	D2F	1.19	0.01	1-1/2	4-1/2	125
P72-20M-115-J	114679	72	18.046	17.876	18.898	D2F	1.19	0.01	1-1/2	4-1/2	135
P80-20M-115-M	114680	80	20.051	19.881	20.866	D2F	0.19	1.55	2	5-1/2	216
P90-20M-115-M	114681	90	22.557	22.387	23.425	D2F	0.19	1.55	2	5-1/2	247
P112-20M-115-M	114682	112	28.071	27.901	...	D3	0.19	1.55	2	5-1/2	273
P144-20M-115-N	114683	144	36.092	35.922	...	C3	0.00	2.05	2-7/16	5-7/8	392
P168-20M-115-N	114684	168	42.107	41.937	...	C3	0.00	2.05	2-7/16	5-7/8	469
P192-20M-115-N	114685	192	48.122	47.952	...	C3	0.00	2.05	2-7/16	5-7/8	552
P216-20M-115-N	114686	216	54.136	53.958	...	C3	0.00	2.05	2-7/16	5-7/8	618
20M-170											
F = 7.5"											
P34-20M-170-MPB	114687	34	8.522	8.352	9.449	6F	2.25	1.25	2-1/8	4-3/8	81
P36-20M-170-MPB	114688	36	9.023	8.853	9.843	6F	2.25	1.25	2-1/8	4-1/2	93
P38-20M-170-J	114689	38	9.524	9.354	10.443	A1F	2.19	0.99	1-1/2	4-1/2	72
P40-20M-170-J	114690	40	10.026	9.855	10.827	A1F	2.19	0.99	1-1/2	4-1/2	80
P44-20M-170-J	114691	44	11.028	10.858	11.811	A1F	2.19	0.99	1-1/2	4-1/2	97
P48-20M-170-M	114692	48	12.031	11.861	12.795	D1F	1.50	0.24	2	5-1/2	148
P52-20M-170-M	114693	52	13.033	12.863	13.764	D1F	1.50	0.24	2	5-1/2	175
P56-20M-170-M	114694	56	14.036	13.856	14.764	D1F	1.50	0.24	2	5-1/2	204
P60-20M-170-M	114695	60	15.038	14.868	15.927	D1F	1.50	0.24	2	5-1/2	233
P64-20M-170-M	114696	64	16.041	15.871	16.929	D2F	1.50	0.24	2	5-1/2	210
P68-20M-170-M	114697	68	17.032	16.873	17.927	D2F	1.50	0.24	2	5-1/2	222
P72-20M-170-M	114698	72	18.046	17.876	18.898	D2F	1.50	0.24	2	5-1/2	230
P80-20M-170-M	114699	80	20.051	19.881	20.866	D2F	1.50	0.24	2	5-1/2	249
P90-20M-170-M	114700	90	22.557	22.387	23.425	D2F	1.50	0.24	2	5-1/2	285
P112-20M-170-N	114701	112	28.071	27.901	...	D3	1.25	0.80	2-7/16	5-7/8	361
P144-20M-170-N	114702	144	36.092	35.922	...	D3	1.25	0.80	2-7/16	5-7/8	478
P168-20M-170-P	114703	168	42.107	41.937	...	C3	1.06	1.24	2-7/16	7	658
P192-20M-170-P	114704	192	48.122	47.952	...	C3	1.06	1.24	2-7/16	7	739
P216-20M-170-P	114705	216	54.136	53.958	...	C3	1.06	1.24	2-7/16	7	901
20M-230											
F = 9.88"											
P38-20M-230-MPB	114706	38	9.524	9.354	10.443	6F	2.63	1.25	2-7/8	5-1/4	120
P40-20M-230-MPB	114707	40	10.026	9.855	10.827	6F	2.63	1.25	2-7/8	5-7/8	147
P44-20M-230-MPB	114708	44	11.028	10.858	11.811	6F	2.63	1.25	2-7/8	6	180
P48-20M-230-M	114709	48	12.031	11.861	12.795	A1F	2.00	0.26	2	5-1/2	164
P52-20M-230-M	114710	52	13.033	12.863	13.764	A1F	2.00	0.26	2	5-1/2	193
P56-20M-230-M	114711	56	14.036	13.856	14.764	A1F	2.00	0.26	2	5-1/2	224
P60-20M-230-M	114712	60	15.038	14.868	15.927	A1F	2.00	0.26	2	5-1/2	252
P64-20M-230-M	114713	64	16.041	15.871	16.929	A2F	2.00	0.26	2	5-1/2	233
P68-20M-230-N	114714	68	17.032	16.873	17.927	D1F	1.81	0.24	2-7/16	5-7/8	375
P72-20M-230-N	114715	72	18.046	17.876	18.898	D2F	1.81	0.24	2-7/16	5-7/8	339
P80-20M-230-N	114716	80	20.051	19.881	20.866	D2F	1.81	0.24	2-7/16	5-7/8	331
P90-20M-230-N	114717	90	22.557	22.387	23.425	D2F	1.81	0.24	2-7/16	5-7/8	370
P112-20M-230-N	114718	112	28.071	27.901	...	D3	1.81	0.24	2-7/16	5-7/8	409
P144-20M-230-P	114719	144	36.092	35.922	...	D3	1.31	0.99	2-15/16	7	622
P168-20M-230-P	114720	168	42.107	41.937	...	D3	1.31	0.99	2-15/16	7	742
P192-20M-230-W	114721	192	48.122	47.952	...	C3	1.50	1.06	4	8-1/2	1111
P216-20M-230-W	114722	216	54.136	53.958	...	C3	1.50	1.06	4	8-1/2	1238

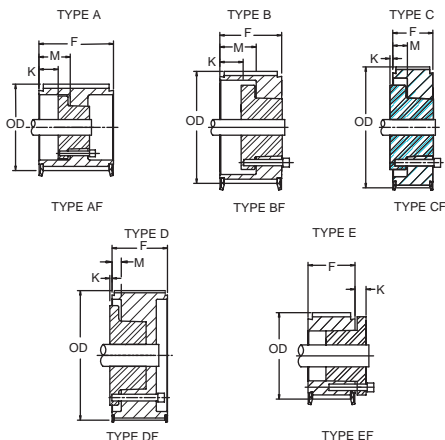
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SPECIFICATION



QD HTD Sprockets



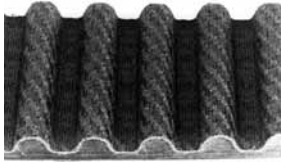
The figure following the sketch reference letter in the "Type" column indicates the construction of the sprocket (1 = Solid, 2 = Web, and 3 = Arms), and the letter "F" indicates that the sprocket has flanges.

20MM QD HTD SPROCKETS

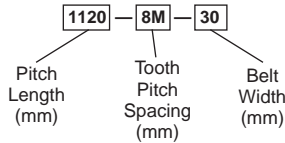
SPROCKET NUMBER	PART NO.	NO. OF TEETH	DIAMETERS (INCHES)			TYPE	DIMENSIONS (INCHES)		Bore Sizes		WT. (LBS)
			Pitch	O.D.	FLANGE		M	K	Min.	Max.	
20M-290											
						F = 12.25"					
P52-20M-290-N	114723	52	13.033	12.863	13.764	A1F	2.50	0.50	2-7/16	5-7/8	202.7
P56-20M-290-N	114724	56	14.036	13.856	14.764	A1F	2.50	0.50	2-7/16	5-7/8	238.8
P60-20M-290-N	114725	60	15.038	14.868	15.927	A1F	2.50	0.50	2-7/16	5-7/8	276.5
P64-20M-290-N	114726	64	16.041	15.871	16.929	A1F	2.50	0.50	2-7/16	5-7/8	319.8
P68-20M-290-N	114727	68	17.032	16.873	17.927	A1F	2.50	0.50	2-7/16	5-7/8	367.9
P72-20M-290-N	114728	72	18.046	17.876	18.898	A2F	2.50	0.50	2-7/16	5-7/8	364.0
P80-20M-290-N	114729	80	20.051	19.881	20.866	A2F	2.50	0.50	2-7/16	5-7/8	369.6
P90-20M-290-N	114730	90	22.557	22.387	23.425	A2F	2.50	0.50	2-7/16	5-7/8	424.3
P112-20M-290-P	114731	112	28.071	27.901	...	A2	2.50	0.25	2-15/16	7	614.6
P144-20M-290-P	114732	144	36.092	35.922	...	A3	2.50	0.25	2-15/16	7	679.8
P168-20M-290-W	114733	168	42.107	41.937	...	A3	2.69	0.19	4	8-1/2	1117.1
P192-20M-290-W	114734	192	48.122	47.952	...	A3	2.69	0.19	4	8-1/2	1281.0
P216-20M-290-W	114735	216	54.136	53.958	...	A3	2.69	0.19	4	8-1/2	1175.6
20M-340											
						F = 14.25"					
P52-20M-340-N	114736	52	13.033	12.863	13.764	A1F	2.50	0.50	2-7/16	5-7/8	221.0
P56-20M-340-N	114737	56	14.036	13.856	14.764	A1F	2.50	0.50	2-7/16	5-7/8	258.0
P60-20M-340-N	114738	60	15.038	14.868	15.927	A1F	2.50	0.50	2-7/16	5-7/8	293.4
P64-20M-340-N	114739	64	16.041	15.871	16.929	A1F	2.50	0.50	2-7/16	5-7/8	337.9
P68-20M-340-N	114740	68	17.032	16.873	17.927	A1F	2.50	0.50	2-7/16	5-7/8	388.1
P72-20M-340-N	114741	72	18.046	17.876	18.898	A2F	2.50	0.50	2-7/16	5-7/8	393.1
P80-20M-340-P	114742	80	20.051	19.881	20.866	A1F	3.50	1.25	2-15/16	7	560.0
P90-20M-340-P	114743	90	22.557	22.387	23.425	A2F	3.50	1.25	2-15/16	7	497.3
P112-20M-340-P	114744	112	28.071	27.901	...	A2	3.50	1.25	2-15/16	7	653.3
P144-20M-340-W	114745	144	36.092	35.922	...	A3	2.63	0.13	4	8-1/2	851.0
P168-20M-340-W	114746	168	42.107	41.937	...	A3	2.63	0.13	4	8-1/2	1177.0
P192-20M-340-S	114747	192	48.122	47.952	...	D3	1.13	2.38	5-1/2	10	1519.4
P216-20M-340-S	114748	216	54.136	53.958	...	D3	1.13	2.38	5-1/2	10	1473.5



DODGE HT200 Belts



BELT NOMENCLATURE



- 200% Rating of HTD Belts
- For Use on TAPER-LOCK HT Sprockets

Note: Belt length is in millimeters.

To convert to inches, divide by 25.4.

Example: 2600-8M-30 belt size

$2600 \div 25.4 = 102.36$ inches belt length

5 MM Pitch HT200 Belts

15MM Wide			15MM Wide			25MM Wide			25MM Wide		
Description	P/N	Wgt.	Description	P/N	Wgt.	Description	P/N	Wgt.	Description	P/N	Wgt.
300-5M-15	142100	0.04	650-5M-15	142110	0.09	300-5M-25	142122	0.07	650-5M-25	142132	0.15
355-5M-15	142101	0.05	700-5M-15	142111	0.09	355-5M-25	142123	0.08	700-5M-25	142133	0.15
375-5M-15	142102	0.05	750-5M-15	142112	0.10	375-5M-25	142124	0.09	750-5M-25	142134	0.17
400-5M-15	142103	0.05	800-5M-15	142113	0.11	400-5M-25	142125	0.09	800-5M-25	142135	0.18
405-5M-15	142145	0.05	850-5M-15	142148	0.11	405-5M-25	142149	0.09	850-5M-25	142152	0.19
425-5M-15	142104	0.06	900-5M-15	142114	0.12	425-5M-25	142126	0.10	900-5M-25	142136	0.20
450-5M-15	142105	0.06	1000-5M-15	142115	0.14	450-5M-25	142127	0.10	1000-5M-25	142137	0.23
500-5M-15	142106	0.07	1150-5M-15	142116	0.16	500-5M-25	142128	0.11	1150-5M-25	142138	0.26
535-5M-15	142107	0.07	1300-5M-15	142117	0.18	535-5M-25	142129	0.12	1300-5M-25	142139	0.29
565-5M-15	142108	0.08	1450-5M-15	142118	0.20	565-5M-25	142130	0.13	1450-5M-25	142140	0.34
580-5M-15	142146	0.08	1600-5M-15	142119	0.22	580-5M-25	142150	0.13	1600-5M-25	142141	0.36
600-5M-15	142109	0.08	1720-5M-15	142120	0.23	600-5M-25	142131	0.14	1720-5M-25	142142	0.39
625-5M-15	142147	0.09	2100-5M-15	142121	0.29	625-5M-25	142151	0.14	2100-5M-25	142143	0.47

8 MM Pitch HT200 Belts

20MM Wide			30MM Wide			50MM Wide			85MM Wide		
Description	Part No.	Wt.	Description	Part No.	Wt.	Description	Part No.	Wt.	Description	Part No.	Wt.
384-8M-20	146400	0.12	384-8M-30	146433	0.19	384-8M-50	146466	0.33	384-8M-85	146499	0.55
480-8M-20	146401	0.13	480-8M-30	146434	0.20	480-8M-50	146467	0.34	480-8M-85	146500	0.57
560-8M-20	146402	0.16	560-8M-30	146435	0.23	560-8M-50	146468	0.39	560-8M-85	146501	0.66
600-8M-20	146403	0.17	600-8M-30	146436	0.25	600-8M-50	146469	0.42	600-8M-85	146502	0.71
640-8M-20	146404	0.18	640-8M-30	146437	0.27	640-8M-50	146470	0.45	640-8M-85	146503	0.76
720-8M-20	146405	0.20	720-8M-30	146438	0.30	720-8M-50	146471	0.50	720-8M-85	146504	0.85
800-8M-20	146406	0.22	800-8M-30	146439	0.33	800-8M-50	146472	0.56	800-8M-85	146505	0.95
840-8M-20	146407	0.23	840-8M-30	146440	0.35	840-8M-50	146473	0.59	840-8M-85	146505	1.00
880-8M-20	146408	0.25	880-8M-30	146441	0.37	880-8M-50	146474	0.61	880-8M-85	146507	1.04
920-8M-20	146409	0.26	920-8M-30	146442	0.39	920-8M-50	146475	0.64	920-8M-85	146508	1.09
960-8M-20	146410	0.27	960-8M-30	146443	0.40	960-8M-50	146476	0.67	960-8M-85	146509	1.14
1040-8M-20	146411	0.29	1040-8M-30	146444	0.43	1040-8M-50	146477	0.74	1040-8M-85	146510	1.23
1064-8M-20	146412	0.30	1064-8M-30	146445	0.45	1064-8M-50	146478	0.76	1064-8M-85	146511	1.27
1120-8M-20	146413	0.31	1120-8M-30	146446	0.47	1120-8M-50	146479	0.78	1120-8M-85	146512	1.33
1160-8M-20	146414	0.32	1160-8M-30	146447	0.48	1160-8M-50	146480	0.8	1160-8M-85	146513	1.28
1200-8M-20	146415	0.34	1200-8M-30	146448	0.50	1200-8M-50	146481	0.84	1200-8M-85	146514	1.42
1224-8M-20	146416	0.35	1224-8M-30	146449	0.51	1224-8M-50	146482	0.87	1224-8M-85	146515	1.47
1280-8M-20	146417	0.36	1280-8M-30	146450	0.53	1280-8M-50	146483	0.89	1280-8M-85	146516	1.52
1440-8M-20	146418	0.40	1440-8M-30	146451	0.60	1440-8M-50	146484	1.01	1440-8M-85	146517	1.71
1512-8M-20	146419	0.42	1512-8M-30	146452	0.62	1512-8M-50	146485	1.05	1512-8M-85	146518	1.79
1584-8M-20	146420	0.43	1584-8M-30	146453	0.65	1584-8M-50	146486	1.09	1584-8M-85	146519	1.82
1600-8M-20	146421	0.45	1600-8M-30	146454	0.67	1600-8M-50	146487	1.11	1600-8M-85	146520	1.90
1760-8M-20	146422	0.49	1760-8M-30	146455	0.73	1760-8M-50	146488	1.23	1760-8M-85	146521	2.08
1800-8M-20	146423	0.50	1800-8M-30	146456	0.75	1800-8M-50	146489	1.25	1800-8M-85	146522	2.13
2000-8M-20	146424	0.56	2000-8M-30	146457	0.83	2000-8M-50	146490	1.39	2000-8M-85	146523	2.37
2200-8M-20	146425	0.60	2200-8M-30	146458	0.90	2200-8M-50	146491	1.50	2200-8M-85	146524	2.55
2400-8M-20	146426	0.67	2400-8M-30	146459	1.00	2400-8M-50	146492	1.67	2400-8M-85	146525	2.84
2600-8M-20	146427	0.79	2600-8M-30	146460	1.09	2600-8M-50	146493	1.81	2600-8M-85	146526	3.09
2800-8M-20	146428	0.80	2800-8M-30	146461	1.17	2800-8M-50	146494	1.95	2800-8M-85	146527	3.32
3048-8M-20	146429	0.85	3040-8M-30	146462	1.27	3040-8M-50	146495	2.00	3040-8M-85	146528	3.62
3280-8M-20	146430	0.92	3280-8M-30	146463	1.37	3280-8M-50	146496	2.29	3280-8M-85	146529	3.89
3600-8M-20	146431	1.01	3600-8M-30	146464	1.51	3600-8M-50	146497	2.51	3600-8M-85	146530	4.27
4400-8M-20	146432	1.23	4400-8M-30	146465	1.84	4400-8M-50	146498	3.07	4400-8M-85	146531	5.22

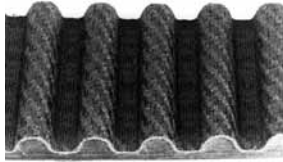
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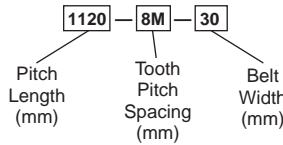
SPECIFICATION



DODGE HT200 Belts



BELT NOMENCLATURE



- 200% Rating of HTD Belts
- For Use on TAPER-LOCK HT Sprockets

Note: Belt length is in millimeters.

To convert to inches, divide by 25.4

Example: 2600-8M-30 belt size

$$2600 \div 25.4 = 102.36 \text{ inches belt length}$$

14 MM Pitch HT200 Belts

40MM Wide			55MM Wide			85MM Wide			115MM Wide			170MM Wide		
Description	Part No.	Wt.	Description	Part No.	Wt.	Description	Part No.	Wt.	Description	Part No.	Wt.	Description	Part No.	Wt.
966-14M-40	146532	0.84	966-14M-55	146554	1.15	966-14M-85	146576	1.78	966-14M-115	146598	2.41	966-14M-170	146620	3.56
1190-14M-40	146533	1.03	1190-14M-55	146555	1.42	1190-14M-85	146577	2.20	1190-14M-115	146599	2.98	1190-14M-170	146621	4.39
1400-14M-40	146534	1.21	1400-14M-55	146556	1.67	1400-14M-85	146578	2.58	1400-14M-115	146600	3.50	1400-14M-170	146622	5.16
1610-14M-40	146535	1.40	1610-14M-55	146557	1.92	1610-14M-85	146579	2.97	1610-14M-115	146601	4.02	1610-14M-170	146623	5.95
1778-14M-40	146536	1.54	1778-14M-55	146558	2.13	1778-14M-85	146580	3.28	1778-14M-115	146602	4.45	1778-14M-170	146624	6.56
1890-14M-40	146537	1.64	1890-14M-55	146559	2.26	1890-14M-85	146581	3.49	1890-14M-115	146603	4.73	1890-14M-170	146625	6.97
2100-14M-40	146538	1.82	2100-14M-55	146560	2.51	2100-14M-85	146582	3.88	2100-14M-115	146604	5.25	2100-14M-170	146626	7.75
2310-14M-40	146539	2.00	2310-14M-55	146561	2.76	2310-14M-85	146583	4.26	2310-14M-115	146605	5.77	2310-14M-170	146627	8.53
2450-14M-40	146540	2.13	2450-14M-55	146562	2.93	2450-14M-85	146584	4.52	2450-14M-115	146606	6.13	2450-14M-170	146628	9.04
2590-14M-40	146541	2.25	2590-14M-55	146563	3.10	2590-14M-85	146585	4.78	2590-14M-115	146607	6.47	2590-14M-170	146629	9.55
2800-14M-40	146542	2.43	2800-14M-55	146564	3.34	2800-14M-85	146586	5.17	2800-14M-115	146608	7.00	2800-14M-170	146630	10.33
3150-14M-40	146543	2.73	3150-14M-55	146565	3.77	3150-14M-85	146587	5.82	3150-14M-115	146609	7.87	3150-14M-170	146631	11.62
3360-14M-40	146544	2.91	3360-14M-55	146566	4.02	3360-14M-85	146588	6.20	3360-14M-115	146610	8.39	3360-14M-170	146632	12.39
3500-14M-40	146545	3.03	3500-14M-55	146567	4.19	3500-14M-85	146589	6.46	3500-14M-115	146611	8.75	3500-14M-170	146633	12.90
3850-14M-40	146546	3.33	3850-14M-55	146568	4.60	3850-14M-85	146590	7.10	3850-14M-115	146612	9.62	3850-14M-170	146634	14.20
4326-14M-40	146547	3.74	4326-14M-55	146569	5.17	4326-14M-85	146591	8.00	4326-14M-115	146613	10.80	4326-14M-170	146635	15.96
4578-14M-40	146548	3.96	4578-14M-55	146570	5.48	4578-14M-85	146592	8.45	4578-14M-115	146614	11.42	4578-14M-170	146636	16.90
4956-14M-40	146549	4.29	4956-14M-55	146571	5.90	4956-14M-85	146593	9.11	4956-14M-115	146615	12.33	4956-14M-170	146637	18.23
5320-14M-40	146550	4.61	5320-14M-55	146572	6.33	5320-14M-85	146594	9.28	5320-14M-115	146616	13.24	5320-14M-170	146638	19.57
5740-14M-40	146551	4.97	5740-14M-55	146573	6.83	5740-14M-85	146595	10.55	5740-14M-115	146617	14.29	5740-14M-170	146639	25.00
6160-14M-40	146552	5.33	6160-14M-55	146574	7.33	6160-14M-85	146596	11.32	6160-14M-115	146618	15.34	6160-14M-170	146640	22.67
6860-14M-40	146553	5.94	6860-14M-55	146575	8.16	6860-14M-85	146597	12.61	6860-14M-115	146619	17.08	6860-14M-170	146641	25.25

20MM Pitch HTD Belts

115MM Wide			170MM Wide			230MM Wide			290MM Wide			340MM Wide		
Size	Part No.	WT.	Size	Part No.	WT.	Size	Part No.	WT.	Size	Part No.	WT.	Size	Part No.	WT.
2000-20M-115	142288	6.0	2000-20M-170	142303	9.0	2000-20M-230	142318	12.0	2000-20M-290	142333	16.0	2000-20M-340	142348	19.0
2500-20M-115	142289	8.0	2500-20M-170	142304	11.0	2500-20M-230	142319	15.0	2500-20M-290	142334	20.0	2500-20M-340	142349	24.0
3400-20M-115	142290	11.0	3400-20M-170	142305	16.0	3400-20M-230	142320	22.0	3400-20M-290	142335	27.0	3400-20M-340	142350	32.0
3800-20M-115	142291	12.0	3800-20M-170	142306	18.0	3800-20M-230	142321	24.5	3800-20M-290	142336	30.5	3800-20M-340	142351	35.5
4200-20M-115	142292	13.0	4200-20M-170	142307	20.0	4200-20M-230	142322	27.0	4200-20M-290	142337	34.0	4200-20M-340	142352	39.0
4600-20M-115	142293	14.5	4600-20M-170	142308	21.5	4600-20M-230	142323	29.5	4600-20M-290	142338	37.0	4600-20M-340	142353	43.0
5000-20M-115	142294	16.0	5000-20M-170	142309	23.0	5000-20M-230	142324	32.0	5000-20M-290	142339	40.0	5000-20M-340	142354	47.0
5200-20M-115	142295	16.5	5200-20M-170	142310	24.0	5200-20M-230	142325	33.0	5200-20M-290	142340	41.5	5200-20M-340	142355	49.0
5400-20M-115	142296	17.0	5400-20M-170	142311	25.0	5400-20M-230	142326	34.0	5400-20M-290	142341	43.0	5400-20M-340	142356	51.0
5600-20M-115	142297	17.5	5600-20M-170	142312	26.0	5600-20M-230	142327	35.5	5600-20M-290	142342	44.5	5600-20M-340	142357	52.5
5800-20M-115	142298	18.0	5800-20M-170	142313	27.0	5800-20M-230	142328	37.0	5800-20M-290	142343	46.0	5800-20M-340	142358	54.0
6000-20M-115	142299	19.0	6000-20M-170	142314	28.0	6000-20M-230	142329	38.0	6000-20M-290	142344	48.0	6000-20M-340	142359	56.0
6200-20M-115	142300	20.0	6200-20M-170	142315	29.0	6200-20M-230	142330	39.0	6200-20M-290	142345	50.0	6200-20M-340	142360	58.0
6400-20M-115	142301	21.0	6400-20M-170	142316	30.0	6400-20M-230	142331	40.5	6400-20M-290	142346	51.5	6400-20M-340	142361	60.0
6600-20M-115	142302	22.0	6600-20M-170	142317	31.0	6600-20M-230	142332	42.0	6600-20M-290	142347	53.0	6600-20M-340	142362	62.0

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HT200/HTD Drive Selection Procedure

PROCEDURE

1. **Obtain required information:**
 - Motor name plate HP
 - Motor or DriveR RPM and Shaft size
 - DriveN Machine RPM and Shaft size
 - Approximate center distance
 - Service factor information
2. **Determine Service Factor: (Page PT11-20)**
 - Determine type of Driven Machine from Table 1
 - Choose Basic Service Factor in appropriate column of the following S.F. Table
 - Add additional service factor for slow speed drives, idlers or speed up drives were applicable
3. **Calculate Design Horsepower:**
 - Multiply Motor HP or normal running HP times Service Factor from Step 2
 - Note: Recommended Min. Sprocket Diameter, if applicable, from NEMA table on page PT11-21.
4. **Determine Belt Pitch: (Page PT11-21)**
 - Choose belt pitch based upon Design HP and RPM of faster shaft
5. **Select Smaller Sprocket:**
 - Look at Basic HP rating tables of belt Pitch selected in Step 4
 - Scan HP rating at RPM of faster shaft. (Pg. PT11-22 thru PT11-26)
 - Find sprocket size(s) that have HP rating at or above Design HP
6. **Calculate Drive Ratio:**
 - Divide Fast Shaft RPM by Slow Shaft RPM
7. **Select Sprockets and Belt:**
 - Refer to "Ratio/Center Distance" Tables for Belt pitch chosen in Step 4. (Pg. PT11-35 - PT11-63)
 - Trace down left hand column to approximate ratio calculated in Step 6
 - Choose drive that has small sprocket at or above the number of teeth determined in Step 5
 - On this same line, trace to the right until the number closest to the required center distance is reached
 - Trace to the top of this column and note the belt size that gives this center distance
 - Also note the "Belt Length Correction Factor" at the top or bottom of this same column
8. **Finalize Selection:**
 - Multiply "Belt Length Correction Factor" times indicated rating obtained from HP table
 - Verify that Design HP is equal to or less than this corrected HP value
 - Note: If Correction Factor is greater than 1.0 corrected HP may allow selection of smaller less expensive drive
9. **Specify Drive:**
 - DriveR Sprocket and Bushing
 - DriveN Sprocket and Bushing
 - Belt
 - Verify that bushing bore has capacity for shaft size

Example

Step 1. Required Information: Select an HT200 drive to connect a 15HP APG gearmotor to a package conveyor headshaft. Reducer output is 125 RPM, shaft size is 2". Headshaft is 2-3/4" and is to run at 70 RPM. Center distance is 19-23", operation is 14 hrs/day.

Step 2: Service Factor: Package Conveyor requires 1.4 basic Service Factor. Add 0.3 for slow speed drive application (step 2 at left). Net S.F. = 1.7

Step 3. Design HP: $1.7 \times 15 = 25.5$ HP.

Step 4. Belt Pitch: Referring to page PT11-21, most probable belt pitch for 25.5 Des. HP at 125 RPM is 14MM.

Step 5. Select Small Sprocket: Scan 14MM HP Tables. Since there is no 125 RPM line, it will be necessary to interpolate. Start with the 100 RPM line. Observe that a 38 tooth sprocket for a 115MM wide belt gives 22.3 HP. Interpolation for 125 RPM gives 27.5 HP. Other alternatives are also available (see below)

Step 6. Drive Ratio: $125 / 70 \text{ RPM} = 1.79:1$

Step 7. Sprocket Selection: Refer to 14MM Ratio/Center Distance tables. For 1.79 ratio, note that there are 5 drive combinations in the 1.78 to 1.80 range. The 38 tooth DriveR and the 68 tooth DriveN combination appears to be good, however we need to account for the belt length correction factor of .95, which gives us a net design HP of 25.7. (Note 20.2 C.D. requires a 1778 length code belt)

Step 8. Finalize Selection: Select the 38 to 68 tooth combination with a 1778 length code belt for 20.2" C.D. From step 7, rated HP is 25.7

Alternatively, select the 40 to 72 tooth combination with a 1778 length code belt for 19.4 C.D. With interpolation and correction, the rated HP is 27.22.

Step 9. Specify Drive:

Original Selection:

DriveR Sprocket: P38-14M-115-3020, P/N 114520 Bushing. 3020 x 2", P/N 117118

DriveN Sprocket: P68-14M-115-4545, P/N 114528 Bushing. 4545 x 2-3/4", P/N 117426

Belt: 1778-14M-115 HT200 Belt, P/N 146602 Shaft capacity is verified by availability of bore sizes.

Alternative Selection:

DriveR Sprocket: P40-14M-115-3020, P/N 114475 Bushing. 3020 x 2", P/N 117118

DriveN Sprocket: P68-14M-115-4545, P/N 114529 Bushing. 4545 x 2-3/4", P/N 117426

Belt: 1778-14M-115 HT200 Belt, P/N 146602 Shaft capacity is verified by availability of bore sizes.

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SELECTION



Service Factors

Table 1

DriveN Machine	DriveR					
	Intermittent Service Up to 8 hours Daily or Seasonal	Normal Service 8 - 16 hours Daily	Continuous Service 16 - 24 hours Daily	Intermittent Service Up to 8 hours Daily or Seasonal	Normal Service 8 - 16 hours Daily	Continuous Service 16 - 24 hours Daily
The driveN machines listed below are representative samples only. Select a driveN machine whose load characteristics most closely approximate those of the machine being considered.	AC Motors: Normal Torque, Squirrel Cage, Synchronous, Split Phase, Inverter Controlled DC Motors: Shunt Wound Stepper Motors Engines: Multiple Cylinder Internal Combustion			AC Motors: High Torque, High Slip, Repulsion-Induction, Single Phase, Series Wound, Slip Ring DC Motors: Series Wound, Compound Wound Servo Motors Engines: Single Cylinder Internal Combustion Line Shafts Clutches		
Display, Dispensing Equipment, Instrumentation, Measuring Equipment, Medical Equipment, Office, Projection Equipment	1.0	1.2	1.4	1.2	1.4	1.6
Appliances, Sweepers, Sewing Machines Screens, Oven Screens, Drum, Conical Woodworking Equipment (Light): Band Saws, Drills, Lathes	1.1	1.3	1.5	1.3	1.5	1.7
Agitators for Liquids, Conveyors: Belt, Light Package, Drill Press, Lathes, Saws, Laundry Machinery, Wood Working Equipment (Heavy): Circular Saws, Jointers, Planers	1.2	1.4	1.6	1.6	1.8	2.0
Agitators for Semi-Liquids, Compressor: Centrifugal, Conveyor Belt: Ore, Coal, Sand Dough Mixers, Line Shafts, Machine Tools: Grinder, Shaper, Boring Mill, Milling Machines, Paper Machinery (except Pulpers): Presses, Punches, Shears, Printing Machinery, Pumps: Centrifugal, Gear, Screens: Revolving, Vibratory	1.3	1.5	1.7	1.6	1.8	2.0
Brick Machinery (except Pug Mills) Conveyor: Apron, Pan, Bucket, Elevator, Extractors, Washers, Fans, Centrifugal Blowers, Generators & Exciters, Hoists, Rubber Calender, Mills, Extruders	1.4	1.6	1.8	1.8	2.0	2.2
Centrifuges, Screw Conveyors Hammer Mill, Paper Pulpers, Textile Machinery	1.5	1.7	1.9	1.9	2.1	2.3
Blowers: Positive Displacement, Mine Fans, Pulverizers	1.6	1.8	2.0	2.0	2.2	2.4
Compressors: Reciprocating, Crushers: Gyrotory, Jaw, Roll, Mills: Ball, Rod, Pebble, etc., Pumps: Reciprocating Saw Mill Equipment	1.7	1.9	2.1	2.1	2.3	2.5

These service factors are adequate for most belt drive applications. Note that service factors cannot be substituted for good engineering judgment. Service factors may be adjusted based upon an understanding of the severity of actual drive operation conditions.

Additional Service Factors

Low Speed Drives

8mm, 14,, & 20mm Belts Only	
Smaller Sprocket Speed	
Up to 200 rpm	Add 0.3
201 to 400 rpm	Add 0.2
401 to 600 rpm	Add 0.1
Each Idler	Add 0.2

Speed-up Drives

For speed up drives, add the basic service factor to the additional factor given below.

Speed-up Ratio Range	Additional Factor	Speed-up Ratio Range	Additional Factor
1 to 1.24	none	2.50 to 3.49	.30
1.25 to 1.74	.10	3.50 & over	.40
1.75 to 2.49	.20		

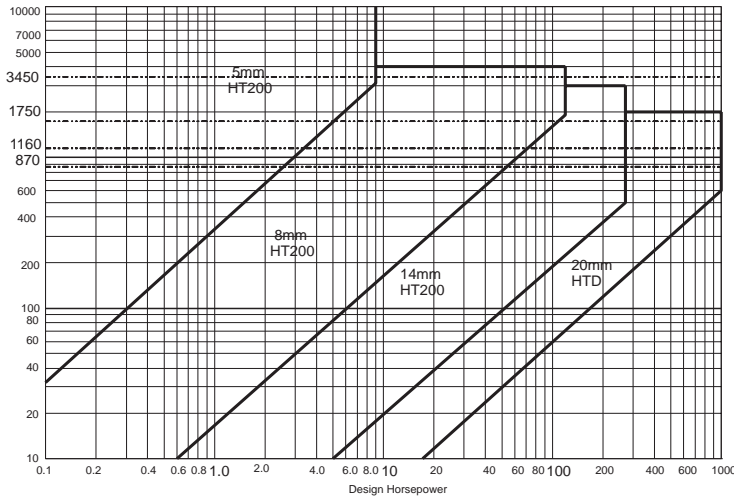
Unusual Conditions

Additional service factors are required for unusual conditions such as load reversal, heavy shock, plugged motor stop, electric brake. Consult factory for recommendation.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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Belt Pitch Selection Guide



Synchronous belt drive noise increases as a function of Design Horsepower and operating RPM. This is indicated on the chart at the left. Provisions should be made to design drive guards for sound absorption accordingly.

Recommended Minimum Sprocket Diameters & Face Width Synchronous Belt Drives Used On General Purpose Electric Motors

Motor Horse power	Min. Sprocket Dia. (in.)				Maximum Face Width			
	870	1160	1750	3450	870	1160	1750	3450
1/2	2.0	-	-	-	2.25	-	-	-
3/4	2.16	2.0	-	-	2.25	2.25	-	-
1	2.16	2.16	2.0	-	2.75	2.25	2.25	-
1-1/2	2.16	2.16	2.16	2.0	2.75	2.75	2.25	2.25
2	2.7	2.16	2.16	2.16	3.38	2.75	2.25	2.25
3	2.7	2.7	2.16	2.16	3.38	3.38	2.75	2.25
5	3.42	2.7	2.7	2.16	4.0	3.38	2.75	2.75
7-1/2	4.0	3.42	2.7	2.7	4.0	4.0	3.38	2.75
10	4.0	4.0	3.42	2.7	4.63	4.0	3.38	3.38
15	4.7	4.0	4.0	3.42	4.63	4.63	4.0	3.38
20	5.4	4.7	4.0	4.0	5.25	4.63	4.0	4.0
25	6.12	5.4	4.0	4.0	5.25	5.25	4.63	4.0
30	6.12	6.12	4.7	-	5.87	5.25	4.63	-
40	7.4	6.12	5.4	-	5.88	5.88	5.25	-
50	7.6	7.4	6.12	-	7.25	5.88	5.25	-
60	9.0	8.1	6.7	-	7.25	7.25	5.88	-
75	8.6	9.0	7.8	-	8.5	7.25	5.88	-
100	10.8	9.0	7.8	-	8.5	8.5	7.25	-
125	11.3	10.8	9.5	-	8.5	8.5	7.25	-
150	11.88	11.88	9.5	-	11.63	8.5	8.5	-
200	11.88	11.88	11.88	-	11.63	11.63	11.63	-
250	13.5	11.88	11.88	-	11.63	11.63	9.38	-
300	-	-	11.88	-	-	11.63	11.63	-
350	-	-	11.88	-	-	11.63	11.63	-
400	-	-	12.69	-	-	-	11.63	-

NOTE: For a given motor horsepower and speed, the total belt pull is related to the motor sprocket size. As this size **decreases**, the total belt pull **increases**. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors. The sprocket on the motor (DriveR Sprocket) should be at least this large.



SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

8M-20		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)															
RPM SMALL SHAFT	22 2.21	24 2.41	26 2.61	28 2.81	30 3.01	32 3.21	34 3.41	36 3.61	38 3.81	40 4.01	44 4.41	48 4.81	56 5.61	64 6.42	72 7.22	80 8.02	
10	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.18	0.22	0.25	0.29	0.32	
20	0.12	0.14	0.16	0.18	0.20	0.21	0.23	0.25	0.27	0.28	0.32	0.35	0.42	0.49	0.55	0.62	
40	0.24	0.27	0.31	0.34	0.37	0.41	0.44	0.48	0.51	0.54	0.61	0.68	0.81	0.94	1.07	1.20	
60	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.69	0.74	0.79	0.89	0.99	1.18	1.38	1.57	1.76	
100	0.55	0.63	0.72	0.80	0.88	0.96	1.04	1.12	1.20	1.28	1.44	1.60	1.91	2.23	2.54	2.84	
200	1.04	1.20	1.36	1.52	1.67	1.83	1.98	2.14	2.29	2.45	2.75	3.06	3.67	4.27	4.87	5.46	
300	1.51	1.74	1.97	2.20	2.44	2.66	2.89	3.12	3.35	3.57	4.02	4.47	5.36	6.24	7.12	7.99	
400	1.96	2.27	2.57	2.87	3.18	3.48	3.78	4.07	4.37	4.67	5.26	5.85	7.02	8.17	9.32	10.5	
500	2.40	2.78	3.16	3.53	3.90	4.27	4.64	5.01	5.38	5.74	6.47	7.20	8.64	10.1	11.5	12.9	
600	2.83	3.28	3.73	4.17	4.62	5.06	5.50	5.93	6.37	6.80	7.67	8.53	10.2	11.9	13.6	15.3	
700	3.26	3.78	4.29	4.80	5.32	5.83	6.34	6.84	7.35	7.85	8.85	9.84	11.8	13.8	15.7	17.6	
800	3.68	4.26	4.85	5.43	6.01	6.59	7.17	7.74	8.31	8.88	10.0	11.1	13.4	15.6	17.8	20.0	
870	3.96	4.60	5.23	5.86	6.49	7.12	7.74	8.36	8.98	9.60	10.8	12.0	14.5	16.9	19.2	21.6	
1000	4.49	5.22	5.94	6.66	7.38	8.09	8.80	9.50	10.2	10.9	12.3	13.7	16.5	19.2	21.9	24.5	
1160	5.13	5.97	6.80	7.62	8.45	9.26	10.1	10.9	11.7	12.5	14.1	15.7	18.9	22.0	25.1	28.1	
1200	5.29	6.15	7.01	7.86	8.71	9.56	10.4	11.2	12.1	12.9	14.6	16.2	19.5	22.7	25.9	29.0	
1400	6.07	7.07	8.06	9.04	10.0	11.0	12.0	12.9	13.9	14.9	16.8	18.7	22.4	26.1	29.8	33.4	
1600	6.84	7.97	9.09	10.2	11.3	12.4	13.5	14.6	15.7	16.8	19.0	21.1	25.3	29.5	33.6	37.7	
1750	7.41	8.64	9.86	11.1	12.3	13.5	14.7	15.9	17.1	18.2	20.6	22.9	27.5	32.0	36.5	40.8	
2000	8.35	9.73	11.1	12.5	13.9	15.2	16.6	17.9	19.3	20.6	23.2	25.8	31.0	36.1	41.1	45.9	
2400	9.81	11.4	13.1	14.7	16.3	17.9	19.5	21.1	22.7	24.3	27.4	30.5	36.5	42.4	48.2	53.8	
2800	11.2	13.1	15.0	16.9	18.7	20.6	22.4	24.2	26.0	27.8	31.4	34.9	41.8	48.5	54.9	61.2	
3200	12.6	14.8	16.9	19.0	21.1	23.2	25.2	27.3	29.3	31.3	35.3	39.2	46.9	54.2	61.3	67.7	
3450	13.5	15.8	18.0	20.3	22.5	24.8	27.0	29.1	31.3	33.5	37.7	41.9	50.0	57.7	65.1	71.5	
4000	15.3	17.9	20.5	23.1	25.6	28.2	30.7	33.1	35.6	38.0	42.8	47.4	56.4				
4500	16.9	19.8	22.7	25.5	28.4	31.1	33.9	36.6	39.3	42.0	47.2	52.2					
5000	18.5	21.7	24.8	27.9	31.0	34.0	37.0	40.0	42.9	45.7	51.3	56.7					
5500	20.0	23.5	26.9	30.2	33.6	36.8	40.0	43.2	46.3	49.3	55.3						

8M-30		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)															
RPM SMALL SHAFT	22 2.21	24 2.41	26 2.61	28 2.81	30 3.01	32 3.21	34 3.41	36 3.61	38 3.81	40 4.01	44 4.41	48 4.81	56 5.61	64 6.42	72 7.22	80 8.02	
10	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.22	0.23	0.26	0.29	0.34	0.40	0.45	0.51	
20	0.20	0.22	0.25	0.28	0.31	0.33	0.36	0.39	0.42	0.44	0.50	0.55	0.66	0.76	0.87	0.98	
40	0.37	0.43	0.48	0.53	0.59	0.64	0.69	0.75	0.80	0.85	0.96	1.06	1.27	1.47	1.68	1.88	
60	0.54	0.62	0.70	0.78	0.86	0.94	1.01	1.09	1.17	1.25	1.40	1.55	1.86	2.16	2.46	2.76	
100	0.87	1.00	1.12	1.25	1.38	1.51	1.63	1.76	1.89	2.01	2.26	2.51	3.00	3.49	3.98	4.47	
200	1.64	1.89	2.13	2.38	2.63	2.87	3.12	3.36	3.60	3.84	4.33	4.80	5.76	6.70	7.64	8.58	
300	2.37	2.74	3.10	3.46	3.82	4.18	4.54	4.90	5.25	5.61	6.32	7.02	8.42	9.80	11.2	12.5	
400	3.08	3.56	4.04	4.51	4.99	5.46	5.93	6.40	6.87	7.33	8.26	9.18	11.0	12.8	14.6	16.4	
500	3.77	4.36	4.95	5.54	6.13	6.71	7.29	7.87	8.45	9.02	10.2	11.3	13.6	15.8	18.0	20.2	
600	4.45	5.15	5.85	6.55	7.25	7.94	8.63	9.31	10.0	10.7	12.0	13.4	16.1	18.7	21.4	24.0	
700	5.11	5.93	6.74	7.54	8.35	9.15	9.95	10.7	11.5	12.3	13.9	15.5	18.6	21.6	24.7	27.7	
800	5.77	6.69	7.61	8.52	9.44	10.3	11.2	12.1	13.0	13.9	15.7	17.5	21.0	24.5	27.9	31.4	
870	6.22	7.22	8.22	9.20	10.2	11.2	12.2	13.1	14.1	15.1	17.0	18.9	22.7	26.5	30.2	33.9	
1000	7.05	8.19	9.33	10.5	11.6	12.7	13.8	14.9	16.0	17.1	19.3	21.5	25.8	30.1	34.3	38.5	
1160	8.06	9.37	10.7	12.0	13.3	14.5	15.8	17.1	18.4	19.6	22.2	24.7	29.6	34.5	39.4	44.2	
1200	8.31	9.66	11.0	12.3	13.7	15.0	16.3	17.6	19.0	20.3	22.9	25.4	30.6	35.6	40.6	45.6	
1400	9.54	11.1	12.7	14.2	15.7	17.3	18.8	20.3	21.8	23.3	26.3	29.3	35.2	41.0	46.8	52.4	
1600	10.7	12.5	14.3	16.0	17.8	19.5	21.2	23.0	24.7	26.4	29.8	33.1	39.8	46.3	52.8	59.1	
1750	11.6	13.6	15.5	17.4	19.3	21.2	23.0	24.9	26.8	28.6	32.3	36.0	43.2	50.3	57.2	64.1	
2000	13.1	15.3	17.5	19.6	21.8	23.9	26.0	28.1	30.2	32.3	36.5	40.6	48.7	56.7	64.5	72.1	
2400	15.4	18.0	20.5	23.1	25.6	28.1	30.7	33.1	35.6	38.1	43.0	47.8	57.3	66.6	75.6	84.4	
2800	17.6	20.6	23.6	26.5	29.4	32.3	35.2	38.0	40.9	43.7	49.3	54.8	65.6	76.1	86.2	96.0	
3200	19.8	23.2	26.5	29.8	33.1	36.4	39.6	42.8	46.0	49.2	55.4	61.6	73.6	85.2	96.2		
3450	21.1	24.7	28.3	31.9	35.4	38.9	42.3	45.8	49.2	52.5	59.2	65.7	78.4	90.6	102.2		
4000	24.0	28.1	32.2	36.2	40.3	44.2	48.1	52.0	55.9	59.7	67.1	74.5	88.5				
4500	26.6	31.1	35.6	40.1	44.5	48.9	53.2	57.5	61.7	65.9	74.0	82.0					
5000	29.0	34.0	39.0	43.8	48.7	53.4	58.1	62.8	67.3	71.8	80.6	89.1					
5500	31.4	36.8	42.2	47.5	52.7	57.8	62.9	67.8	72.7	77.5	86.8						

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

8M-50		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)														
RPM SMALL SHAFT	22 2.21	24 2.41	26 2.61	28 2.81	30 3.01	32 3.21	34 3.41	36 3.61	38 3.81	40 4.01	44 4.41	48 4.81	56 5.61	64 6.42	72 7.22	80 8.02
10	0.18	0.20	0.23	0.25	0.28	0.30	0.33	0.35	0.38	0.40	0.45	0.50	0.59	0.69	0.78	0.88
20	0.34	0.39	0.44	0.49	0.53	0.58	0.63	0.68	0.72	0.77	0.86	0.96	1.14	1.33	1.51	1.70
40	0.65	0.74	0.84	0.93	1.02	1.11	1.21	1.30	1.39	1.48	1.66	1.84	2.20	2.56	2.92	3.27
60	0.94	1.08	1.22	1.35	1.49	1.63	1.76	1.90	2.03	2.17	2.43	2.70	3.23	3.75	4.28	4.80
100	1.51	1.73	1.96	2.18	2.40	2.62	2.84	3.06	3.28	3.50	3.93	4.36	5.22	6.08	6.92	7.77
200	2.85	3.28	3.71	4.14	4.57	4.99	5.42	5.84	6.26	6.68	7.52	8.35	10.0	11.7	13.3	14.9
300	4.12	4.76	5.39	6.02	6.65	7.27	7.90	8.52	9.14	9.75	11.0	12.2	14.6	17.0	19.4	21.8
400	5.36	6.19	7.02	7.85	8.67	9.49	10.3	11.1	11.9	12.7	14.4	16.0	19.2	22.3	25.5	28.6
500	6.56	7.59	8.61	9.63	10.7	11.7	12.7	13.7	14.7	15.7	17.7	19.7	23.6	27.5	31.4	35.2
600	7.74	8.96	10.2	11.4	12.6	13.8	15.0	16.2	17.4	18.6	20.9	23.3	28.0	32.6	37.2	41.7
700	8.89	10.3	11.7	13.1	14.5	15.9	17.3	18.7	20.1	21.4	24.2	26.9	32.3	37.6	42.9	48.2
800	10.0	11.6	13.2	14.8	16.4	18.0	19.6	21.1	22.7	24.2	27.3	30.4	36.5	42.6	48.6	54.5
870	10.8	12.6	14.3	16.0	17.7	19.4	21.1	22.8	24.5	26.2	29.5	32.9	39.5	46.0	52.5	58.9
1000	12.3	14.2	16.2	18.2	20.1	22.1	24.0	25.9	27.9	29.8	33.6	37.4	44.9	52.4	59.7	67.0
1160	14.0	16.3	18.6	20.8	23.1	25.3	27.5	29.7	32.0	34.1	38.5	42.9	51.5	60.0	68.5	76.8
1200	14.4	16.8	19.1	21.5	23.8	26.1	28.4	30.7	33.0	35.2	39.8	44.2	53.1	61.9	70.6	79.2
1400	16.6	19.3	22.0	24.7	27.4	30.0	32.7	35.3	38.0	40.6	45.8	51.0	61.2	71.3	81.3	91.2
1600	18.7	21.8	24.8	27.9	30.9	33.9	36.9	39.9	42.9	45.9	51.8	57.6	69.2	80.6	91.8	102.9
1750	20.2	23.6	26.9	30.2	33.5	36.8	40.1	43.3	46.6	49.8	56.2	62.5	75.0	87.4	99.5	111.4
2000	22.8	26.6	30.3	34.1	37.8	41.5	45.2	48.9	52.6	56.2	63.4	70.6	84.7	98.5	112.1	125.4
2400	26.8	31.3	35.7	40.2	44.6	48.9	53.3	57.6	62.0	66.2	74.7	83.1	99.7	115.8	131.5	146.8
2800	30.7	35.8	41.0	46.1	51.2	56.2	61.2	66.2	71.1	76.0	85.7	95.3	114.1	132.3	149.9	166.9
3200	34.4	40.3	46.1	51.9	57.6	63.2	68.9	74.5	80.0	85.5	96.4	107.1	128.0	148.1	167.4	
3450	36.8	43.0	49.2	55.4	61.5	67.6	73.6	79.6	85.5	91.3	102.9	114.3	136.4	157.5	177.7	
4000	41.8	48.9	56.0	63.0	70.0	76.9	83.7	90.4	97.1	103.7	116.8	129.5	154.0			
4500	46.2	54.1	62.0	69.7	77.4	85.0	92.6	100.0	107.3	114.5	128.7	142.5				
5000	50.5	59.1	67.8	76.2	84.7	92.9	101.1	109.1	117.1	124.9	140.1	154.9				
5500	54.6	64.0	73.4	82.5	91.6	100.5	109.3	117.9	126.4	134.7	150.9					

8M-85		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)														
RPM SMALL SHAFT	22 2.21	24 2.41	26 2.61	28 2.81	30 3.01	32 3.21	34 3.41	36 3.61	38 3.81	40 4.01	44 4.41	48 4.81	56 5.61	64 6.42	72 7.22	80 8.02
10	0.31	0.35	0.40	0.44	0.48	0.53	0.57	0.61	0.65	0.70	0.78	0.87	1.03	1.20	1.36	1.53
20	0.59	0.68	0.76	0.84	0.93	1.01	1.09	1.18	1.26	1.34	1.50	1.67	1.99	2.31	2.63	2.95
40	1.13	1.29	1.45	1.61	1.78	1.94	2.10	2.26	2.42	2.57	2.89	3.21	3.83	4.46	5.07	5.69
60	1.64	1.88	2.12	2.36	2.59	2.83	3.07	3.30	3.53	3.77	4.23	4.70	5.62	6.53	7.44	8.34
100	2.63	3.01	3.40	3.79	4.17	4.56	4.94	5.32	5.70	6.08	6.84	7.59	9.09	10.6	12.0	13.5
200	4.96	5.71	6.46	7.20	7.95	8.69	9.43	10.2	10.9	11.6	13.1	14.5	17.4	20.3	23.1	25.9
300	7.17	8.28	9.38	10.5	11.6	12.7	13.7	14.8	15.9	17.0	19.1	21.2	25.5	29.7	33.8	38.0
400	9.32	10.8	12.2	13.7	15.1	16.5	17.9	19.4	20.8	22.2	25.0	27.8	33.3	38.8	44.3	49.7
500	11.4	13.2	15.0	16.8	18.5	20.3	22.1	23.8	25.6	27.3	30.8	34.2	41.0	47.8	54.6	61.2
600	13.5	15.6	17.7	19.8	21.9	24.0	26.1	28.2	30.3	32.3	36.4	40.5	48.6	56.7	64.7	72.6
700	15.5	17.9	20.4	22.8	25.3	27.7	30.1	32.5	34.9	37.3	42.0	46.8	56.1	65.4	74.7	83.8
800	17.5	20.2	23.0	25.8	28.6	31.3	34.0	36.8	39.5	42.2	47.6	52.9	63.6	74.1	84.5	94.9
870	18.8	21.8	24.9	27.8	30.8	33.8	36.8	39.7	42.7	45.6	51.4	57.2	68.7	80.1	91.4	102.5
1000	21.3	24.8	28.2	31.6	35.0	38.4	41.8	45.1	48.5	51.8	58.5	65.1	78.2	91.1	103.9	116.6
1160	24.4	28.3	32.3	36.2	40.1	44.0	47.9	51.7	55.6	59.4	67.0	74.6	89.6	104.5	119.1	133.6
1200	25.1	29.2	33.3	37.3	41.4	45.4	49.4	53.4	57.4	61.3	69.2	77.0	92.5	107.8	122.9	137.8
1400	28.9	33.6	38.3	43.0	47.6	52.3	56.9	61.5	66.1	70.6	79.7	88.7	106.5	124.1	141.5	158.6
1600	32.5	37.9	43.2	48.5	53.8	59.0	64.3	69.4	74.6	79.8	90.1	100.2	120.4	140.2	159.7	179.0
1750	35.2	41.0	46.8	52.6	58.3	64.0	69.7	75.4	81.0	86.6	97.7	108.8	130.6	152.0	173.1	193.9
2000	39.6	46.2	52.8	59.3	65.8	72.3	78.7	85.1	91.4	97.8	110.3	122.8	147.3	171.4	195.0	218.2
2400	46.6	54.4	62.2	69.9	77.6	85.2	92.8	100.3	107.8	115.2	130.0	144.6	173.4	201.4	228.8	255.4
2800	53.3	62.3	71.3	80.2	89.0	97.8	106.5	115.1	123.7	132.3	149.2	165.9	198.5	230.2	260.9	290.5
3200	59.9	70.1	80.2	90.2	100.2	110.0	119.9	129.6	139.3	148.8	167.7	186.4	222.7	257.6	291.2	
3450	64.0	74.9	85.7	96.4	107.0	117.6	128.1	138.4	148.7	158.9	179.1	198.8	237.3	274.1	309.1	
4000	72.7	85.1	97.5	109.6	121.8	133.7	145.6	157.4	169.0	180.5	203.1	225.3	267.9			
4500	80.3	94.1	107.8	121.3	134.7	147.9	161.0	173.9	186.7	199.3	224.0	248.0				
5000	87.8	102.9	117.9	132.7	147.3	161.7	175.9	189.9	203.7	217.3	243.8	269.4				
5500	95.0	111.4	127.7	143.6	159.4	174.9	190.2	205.2	220.0	234.4	262.5					

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-40		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)															
RPM SMALL SHAFT	28 4.91	29 5.09	30 5.26	32 5.61	34 5.97	36 6.32	38 6.67	40 7.02	44 7.72	48 8.42	52 9.12	56 9.82	60 10.53	64 11.23	68 11.93	72 12.63	80 14.04
10	0.56	0.58	0.60	0.65	0.70	0.74	0.79	0.83	0.92	1.01	1.10	1.19	1.28	1.37	1.46	1.55	1.72
20	1.04	1.09	1.13	1.22	1.31	1.40	1.48	1.57	1.74	1.91	2.08	2.25	2.42	2.59	2.75	2.92	3.25
40	1.95	2.04	2.12	2.29	2.46	2.62	2.79	2.95	3.27	3.60	3.92	4.24	4.55	4.87	5.18	5.49	6.11
60	2.81	2.94	3.06	3.30	3.54	3.78	4.02	4.26	4.73	5.19	5.66	6.12	6.58	7.03	7.49	7.94	8.83
100	4.44	4.64	4.83	5.22	5.60	5.98	6.36	6.74	7.49	8.23	8.97	9.71	10.4	11.2	11.9	12.6	14.0
200	8.21	8.58	8.94	9.67	10.4	11.1	11.8	12.5	13.9	15.3	16.7	18.1	19.4	20.8	22.1	23.5	26.1
300	11.7	12.3	12.8	13.8	14.9	15.9	16.9	17.9	20.0	22.0	23.9	25.9	27.9	29.8	31.7	33.6	37.4
400	15.1	15.8	16.4	17.8	19.1	20.5	21.8	23.1	25.7	28.3	30.9	33.4	35.9	38.4	40.9	43.4	48.3
500	18.3	19.1	20.0	21.6	23.3	24.9	26.5	28.1	31.3	34.5	37.6	40.7	43.7	46.8	49.8	52.8	58.7
600	21.4	22.4	23.4	25.3	27.3	29.2	31.1	33.0	36.7	40.4	44.1	47.7	51.3	54.8	58.4	61.9	68.8
800	27.5	28.7	30.0	32.5	35.0	37.4	39.9	42.3	47.1	51.9	56.6	61.2	65.8	70.3	74.8	79.3	88.0
870	29.5	30.9	32.2	34.9	37.6	40.2	42.9	45.5	50.6	55.7	60.8	65.8	70.7	75.6	80.4	85.1	94.5
1000	33.2	34.8	36.3	39.3	42.3	45.3	48.3	51.2	57.1	62.8	68.5	74.1	79.6	85.0	90.4	95.7	106.2
1160	37.7	39.4	41.1	44.6	48.0	51.4	54.8	58.1	64.7	71.2	77.6	84.0	90.2	96.3	102.3	108.3	119.9
1200	38.7	40.6	42.3	45.9	49.4	52.9	56.4	59.8	66.6	73.3	79.9	86.4	92.8	99.0	105.2	111.3	123.2
1400	44.1	46.2	48.2	52.3	56.3	60.3	64.2	68.1	75.8	83.4	90.8	98.1	105.3	112.3	119.2	126.0	139.2
1600	49.3	51.6	53.9	58.4	62.9	67.3	71.7	76.1	84.7	93.1	101.3	109.4	117.2	125.0	132.5	139.8	154.0
1750	53.1	55.5	58.0	62.9	67.7	72.5	77.2	81.9	91.1	100.1	108.9	117.4	125.8	134.0	141.9	149.6	164.3
2000	59.2	61.9	64.7	70.1	75.5	80.8	86.1	91.3	101.4	111.3	120.9	130.2	139.3	148.0	156.5	164.6	
2400	68.5	71.7	74.9	81.2	87.3	93.4	99.4	105.3	116.8	127.9	138.6	148.8					
2800	77.3	80.9	84.4	91.5	98.4	105.2	111.8	118.3	130.9	142.9							
3200	85.5	89.5	93.4	101.1	108.6	116.0	123.2	130.1	143.5								
3600	93.2	97.5	101.7	110.0	118.1	125.9	133.5										
4000	100.4	105.0	109.5	118.2	126.7	134.8											

14M-55		Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)															
RPM SMALL SHAFT	28 4.91	29 5.09	30 5.26	32 5.61	34 5.97	36 6.32	38 6.67	40 7.02	44 7.72	48 8.42	52 9.12	56 9.82	60 10.53	64 11.23	68 11.93	72 12.63	80 14.04
10	0.83	0.87	0.90	0.97	1.04	1.11	1.18	1.25	1.39	1.52	1.66	1.79	1.92	2.06	2.19	2.32	2.58
20	1.57	1.63	1.70	1.83	1.96	2.09	2.23	2.36	2.61	2.87	3.13	3.38	3.63	3.88	4.13	4.38	4.87
40	2.93	3.06	3.18	3.43	3.68	3.93	4.18	4.42	4.91	5.40	5.88	6.36	6.83	7.30	7.77	8.24	9.17
60	4.22	4.40	4.59	4.95	5.31	5.67	6.03	6.38	7.09	7.79	8.49	9.18	9.87	10.6	11.2	11.9	13.2
100	6.66	6.96	7.25	7.82	8.40	8.97	9.54	10.1	11.2	12.4	13.5	14.6	15.7	16.7	17.8	18.9	21.0
200	12.3	12.9	13.4	14.5	15.6	16.7	17.7	18.8	20.9	23.0	25.0	27.1	29.1	31.2	33.2	35.2	39.1
300	17.6	18.4	19.2	20.7	22.3	23.8	25.4	26.9	29.9	32.9	35.9	38.9	41.8	44.7	47.6	50.5	56.1
400	22.6	23.7	24.7	26.7	28.7	30.7	32.7	34.7	38.6	42.5	46.3	50.1	53.9	57.7	61.4	65.1	72.4
500	27.5	28.7	30.0	32.4	34.9	37.3	39.8	42.2	47.0	51.7	56.4	61.0	65.6	70.2	74.7	79.2	88.0
600	32.2	33.6	35.1	38.0	40.9	43.8	46.6	49.4	55.1	60.6	66.1	71.5	76.9	82.3	87.6	92.8	103.2
800	41.2	43.1	45.0	48.7	52.4	56.1	59.8	63.5	70.7	77.8	84.8	91.8	98.7	105.5	112.2	118.9	132.0
870	44.2	46.3	48.3	52.4	56.4	60.3	64.3	68.2	76.0	83.6	91.2	98.7	106.0	113.3	120.6	127.7	141.7
1000	49.8	52.1	54.4	59.0	63.5	68.0	72.4	76.9	85.6	94.2	102.7	111.1	119.4	127.6	135.6	143.6	159.2
1160	56.5	59.1	61.7	66.9	72.0	77.1	82.2	87.2	97.1	106.9	116.5	125.9	135.3	144.5	153.5	162.4	179.8
1200	58.1	60.8	63.5	68.8	74.1	79.4	84.6	89.7	99.9	110.0	119.8	129.6	139.1	148.6	157.8	167.0	184.8
1400	66.1	69.2	72.3	78.4	84.4	90.4	96.3	102.2	113.7	125.1	136.2	147.2	158.0	168.5	178.9	189.0	208.7
1600	73.9	77.4	80.8	87.6	94.3	101.0	107.6	114.2	127.0	139.6	152.0	164.0	175.9	187.4	198.7	209.7	231.0
1750	79.6	83.3	87.0	94.3	101.6	108.8	115.9	122.9	136.7	150.1	163.3	176.2	188.7	200.9	212.8	224.4	246.5
2000	88.7	92.9	97.0	105.2	113.3	121.3	129.1	136.9	152.1	166.9	181.3	195.3	208.9	222.0	234.7		
2400	102.7	107.5	112.3	121.7	131.0	140.2	149.1	158.0	175.2	191.9	207.9	223.3					
2800	115.9	121.3	126.7	137.2	147.6	157.7	167.7	177.5	196.3	214.3							
3200	128.3	134.2	140.1	151.7	163.0	174.0	184.7	195.2	215.3								
3600	139.8	146.3	152.6	165.0	177.1	188.8	200.2										
4000	150.6	157.5	164.2	177.3	190.0	202.2											

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-85	Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
RPM SMALL SHAFT	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04
10	1.39	1.45	1.51	1.62	1.74	1.85	1.97	2.08	2.31	2.54	2.76	2.98	3.20	3.43	3.64	3.86	4.30
20	2.61	2.72	2.83	3.05	3.27	3.49	3.71	3.93	4.36	4.78	5.21	5.63	6.05	6.47	6.88	7.30	8.12
40	4.89	5.10	5.30	5.72	6.14	6.55	6.96	7.37	8.19	8.99	9.80	10.6	11.4	12.2	13.0	13.7	15.3
60	7.03	7.34	7.64	8.25	8.85	9.45	10.0	10.6	11.8	13.0	14.1	15.3	16.4	17.6	18.7	19.8	22.1
100	11.1	11.6	12.1	13.0	14.0	15.0	15.9	16.8	18.7	20.6	22.4	24.3	26.1	27.9	29.7	31.5	35.0
200	20.5	21.5	22.4	24.2	26.0	27.8	29.5	31.3	34.8	38.3	41.7	45.2	48.6	51.9	55.3	58.6	65.2
300	29.3	30.7	32.0	34.6	37.2	39.7	42.3	44.8	49.9	54.9	59.9	64.8	69.7	74.5	79.3	84.1	93.6
400	37.7	39.4	41.1	44.5	47.8	51.2	54.5	57.8	64.3	70.8	77.2	83.6	89.9	96.1	102.3	108.5	120.7
500	45.8	47.9	49.9	54.1	58.2	62.2	66.3	70.3	78.3	86.1	93.9	101.7	109.3	116.9	124.5	131.9	146.7
600	53.6	56.1	58.5	63.3	68.2	72.9	77.7	82.4	91.8	101.0	110.2	119.2	128.2	137.1	145.9	154.7	171.9
800	68.6	71.8	74.9	81.2	87.4	93.6	99.7	105.8	117.8	129.6	141.4	153.0	164.5	175.8	187.1	198.2	220.1
870	73.7	77.2	80.5	87.3	93.9	100.6	107.1	113.7	126.6	139.4	152.0	164.4	176.7	188.9	200.9	212.8	236.2
1000	83.0	86.9	90.7	98.3	105.8	113.3	120.7	128.1	142.7	157.0	171.2	185.2	199.0	212.6	226.1	239.3	265.4
1160	94.1	98.5	102.9	111.5	120.1	128.6	137.0	145.3	161.9	178.1	194.1	209.9	225.4	240.8	255.8	270.7	299.7
1200	96.9	101.4	105.8	114.7	123.6	132.3	141.0	149.6	166.6	183.3	199.7	215.9	231.9	247.6	263.1	278.3	308.0
1400	110.2	115.4	120.5	130.6	140.7	150.6	160.5	170.3	189.6	208.5	227.1	245.3	263.3	280.9	298.1	315.1	347.9
1600	123.2	129.0	134.7	146.0	157.2	168.4	179.4	190.3	211.7	232.7	253.3	273.4	293.1	312.4	331.2	349.6	385.0
1750	132.6	138.8	145.0	157.2	169.3	181.3	193.1	204.8	227.8	250.2	272.2	293.6	314.5	334.9	354.7	374.0	410.8
2000	147.9	154.9	161.7	175.3	188.8	202.1	215.2	228.1	253.5	278.2	302.2	325.6	348.2	370.1	391.2		
2400	171.2	179.2	187.2	202.9	218.4	233.6	248.6	263.3	292.1	319.8	346.5	372.1					
2800	193.2	202.2	211.1	228.7	246.0	262.9	279.5	295.8	327.2	357.2							
3200	213.8	223.7	233.5	252.8	271.6	290.0	307.9	325.4	358.8								
3600	233.1	243.8	254.4	275.1	295.2	314.7	333.7										
4000	251.0	262.4	273.6	295.5	316.7	337.1											

14M-115	Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
RPM SMALL SHAFT	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04
10	1.94	2.03	2.11	2.27	2.43	2.59	2.75	2.92	3.23	3.55	3.86	4.18	4.49	4.80	5.10	5.41	6.02
20	3.65	3.81	3.96	4.27	4.58	4.89	5.19	5.50	6.10	6.70	7.29	7.88	8.47	9.06	9.64	10.2	11.4
40	6.84	7.13	7.43	8.01	8.59	9.17	9.75	10.3	11.5	12.6	13.7	14.8	15.9	17.0	18.1	19.2	21.4
60	9.85	10.3	10.7	11.5	12.4	13.2	14.1	14.9	16.5	18.2	19.8	21.4	23.0	24.6	26.2	27.8	30.9
100	15.5	16.2	16.9	18.3	19.6	20.9	22.3	23.6	26.2	28.8	31.4	34.0	36.5	39.1	41.6	44.1	49.0
200	28.8	30.0	31.3	33.8	36.4	38.9	41.3	43.8	48.7	53.6	58.4	63.2	68.0	72.7	77.4	82.1	91.3
300	41.1	42.9	44.7	48.4	52.0	55.6	59.2	62.8	69.9	76.9	83.8	90.7	97.5	104.3	111.1	117.8	131.0
400	52.8	55.2	57.6	62.3	67.0	71.7	76.3	80.9	90.1	99.1	108.1	117.0	125.8	134.6	143.2	151.8	168.9
500	64.1	67.0	69.9	75.7	81.4	87.1	92.8	98.4	109.6	120.6	131.5	142.3	153.1	163.7	174.2	184.7	205.4
600	75.1	78.5	81.9	88.7	95.4	102.1	108.8	115.4	128.5	141.4	154.2	166.9	179.5	192.0	204.3	216.5	240.7
800	96.1	100.5	104.9	113.7	122.4	131.0	139.5	148.1	164.9	181.5	197.9	214.2	230.3	246.2	261.9	277.4	308.1
870	103.2	108.0	112.7	122.2	131.5	140.8	150.0	159.1	177.3	195.1	212.8	230.2	247.4	264.5	281.3	298.0	330.7
1000	116.2	121.6	127.0	137.6	148.2	158.6	169.0	179.3	199.7	219.8	239.7	259.2	278.6	297.7	316.5	335.1	371.6
1160	131.8	137.9	144.0	156.1	168.1	180.0	191.8	203.5	226.6	249.3	271.8	293.8	315.6	337.1	358.1	379.0	419.6
1200	135.6	141.9	148.2	160.6	173.0	185.2	197.4	209.4	233.2	256.6	279.6	302.3	324.7	346.7	368.3	389.6	431.2
1400	154.3	161.5	168.7	182.9	197.0	210.9	224.7	238.4	265.4	291.9	317.9	343.5	368.6	393.2	417.4	441.1	487.1
1600	172.5	180.5	188.5	204.4	220.1	235.7	251.1	266.4	296.4	325.8	354.6	382.8	410.4	437.4	463.7	489.4	538.9
1750	185.7	194.4	203.0	220.1	237.0	253.8	270.3	286.7	318.9	350.3	381.0	411.0	440.3	468.8	496.6	523.5	575.1
2000	207.1	216.8	226.4	245.5	264.3	282.9	301.3	319.4	354.9	389.5	423.1	455.8	487.4	518.1	547.7		
2400	239.7	250.9	262.0	284.0	305.7	327.0	348.0	368.7	408.9	447.7	485.1	521.0					
2800	270.4	283.1	295.5	320.2	344.4	368.1	391.3	414.1	458.1	500.1							
3200	299.3	313.2	326.9	353.9	380.2	406.0	431.1	455.5	502.4								
3600	326.3	341.3	356.1	385.1	413.3	440.6	467.1										
4000	351.4	367.4	383.1	413.7	443.3	471.9											

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HT200 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-170 RPM SMALL SHAFT	Rated Horsepower for Small Sprocket (Number of Teeth and Pitch Diameter, Inches)																
	28 4.91	29 5.09	30 5.26	32 5.61	34 5.97	36 6.32	38 6.67	40 7.02	44 7.72	48 8.42	52 9.12	56 9.82	60 10.53	64 11.23	68 11.93	72 12.63	80 14.04
10	2.96	3.08	3.20	3.45	3.70	3.94	4.19	4.43	4.91	5.39	5.87	6.35	6.82	7.29	7.76	8.22	9.15
20	5.55	5.79	6.03	6.50	6.96	7.43	7.89	8.35	9.27	10.2	11.1	12.0	12.9	13.8	14.6	15.5	17.3
40	10.4	10.8	11.3	12.2	13.1	13.9	14.8	15.7	17.4	19.1	20.8	22.5	24.2	25.9	27.6	29.2	32.5
60	15.0	15.6	16.3	17.6	18.8	20.1	21.4	22.6	25.1	27.6	30.1	32.6	35.0	37.4	39.8	42.2	47.0
100	23.6	24.7	25.7	27.8	29.8	31.8	33.8	35.9	39.8	43.8	47.7	51.6	55.5	59.4	63.2	67.0	74.5
200	43.7	45.6	47.6	51.4	55.3	59.1	62.8	66.6	74.1	81.5	88.8	96.1	103.4	110.5	117.7	124.8	138.8
300	62.4	65.2	68.0	73.6	79.1	84.6	90.0	95.4	106.2	116.8	127.4	137.9	148.3	158.6	168.8	179.0	199.1
400	80.3	83.9	87.5	94.7	101.8	108.9	116.0	123.0	136.9	150.6	164.3	177.8	191.2	204.5	217.7	230.8	256.8
500	97.4	101.9	106.3	115.0	123.8	132.4	141.0	149.6	166.5	183.3	199.9	216.3	232.7	248.8	264.8	280.8	312.2
600	114.1	119.3	124.5	134.8	145.0	155.2	165.3	175.4	195.3	214.9	234.4	253.7	272.8	291.8	310.5	329.1	365.9
800	146.1	152.8	159.5	172.8	186.0	199.1	212.1	225.0	250.6	275.9	300.9	325.6	350.0	374.2	398.0	421.7	468.3
870	156.9	164.2	171.4	185.7	199.9	214.0	228.0	241.9	269.4	296.6	323.4	349.9	376.1	402.0	427.6	452.9	502.7
1000	176.7	184.9	193.0	209.2	225.2	241.1	256.9	272.6	303.6	334.1	364.3	394.1	423.4	452.4	481.0	509.3	564.8
1160	200.3	209.7	218.9	237.3	255.5	273.6	291.5	309.3	344.4	379.0	413.1	446.7	479.7	512.3	544.4	576.0	637.8
1200	206.1	215.7	225.2	244.2	262.9	281.6	300.0	318.3	354.4	390.0	425.0	459.5	493.5	526.9	559.8	592.2	655.5
1400	234.6	245.5	256.4	278.0	299.4	320.6	341.6	362.4	403.4	443.6	483.2	522.1	560.2	597.7	634.4	670.4	740.4
1600	262.1	274.4	286.6	310.7	334.6	358.3	381.7	404.9	450.5	495.2	539.0	581.8	623.8	664.8	704.8	743.9	819.2
1750	282.2	295.5	308.6	334.6	360.3	385.8	410.9	435.8	484.7	532.5	579.2	624.8	669.3	712.6	754.8	795.8	874.2
2000	314.7	329.5	344.1	373.1	401.8	430.0	457.9	485.5	539.5	592.0	643.1	692.8	740.9	787.5	832.4		
2400	364.3	381.4	398.3	431.7	464.7	497.1	529.0	560.3	621.5	680.5	737.3	791.9					
2800	411.0	430.3	449.2	486.7	523.4	559.5	594.8	629.4	696.3	760.1							
3200	454.9	476.1	496.9	537.9	578.0	617.1	655.2	692.4	763.6								
3600	496.0	518.8	541.3	585.3	628.2	669.7	710.0										
4000	534.2	558.5	582.3	628.9	673.9	717.3											

Operation in shaded area will result in a reduction of belt life.



HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

5M-15 RPM SMALL SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)													
	32 2.0	34 2.1	36 2.3	38 2.38	40 2.5	44 2.8	45 2.8	48 3.0	50 3.1	52 3.3	56 3.5	60 3.8	64 4.0	68 4.2
10	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.07
20	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.13
40	0.10	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18	0.19	0.21	0.22	0.24	0.25
60	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.25	0.26	0.27	0.30	0.32	0.35	0.37
100	0.24	0.26	0.28	0.30	0.32	0.36	0.37	0.40	0.42	0.44	0.48	0.51	0.55	0.59
200	0.44	0.48	0.52	0.56	0.59	0.67	0.69	0.74	0.78	0.82	0.89	0.97	1.04	1.11
300	0.63	0.69	0.75	0.80	0.86	0.96	0.99	1.07	1.13	1.18	1.29	1.39	1.50	1.60
400	0.82	0.89	0.96	1.04	1.11	1.25	1.28	1.39	1.46	1.53	1.67	1.81	1.94	2.08
500	1.00	1.09	1.17	1.26	1.35	1.52	1.57	1.70	1.78	1.87	2.04	2.21	2.38	2.54
600	1.17	1.27	1.38	1.48	1.59	1.79	1.84	2.00	2.10	2.20	2.40	2.60	2.80	3.00
800	1.50	1.64	1.78	1.91	2.05	2.31	2.38	2.58	2.71	2.84	3.10	3.36	3.62	3.87
1000	1.83	1.99	2.16	2.33	2.49	2.82	2.90	3.14	3.30	3.46	3.78	4.10	4.41	4.72
1200	2.14	2.34	2.53	2.73	2.92	3.31	3.40	3.69	3.88	4.07	4.44	4.81	5.18	5.55
1400	2.44	2.67	2.90	3.12	3.34	3.78	3.89	4.22	4.44	4.65	5.08	5.51	5.93	6.35
1600	2.74	2.99	3.25	3.50	3.75	4.25	4.37	4.74	4.99	5.23	5.71	6.19	6.66	7.13
1800	3.03	3.31	3.59	3.87	4.15	4.71	4.84	5.25	5.52	5.79	6.32	6.85	7.38	7.89
2000	3.31	3.62	3.93	4.24	4.55	5.15	5.30	5.75	6.05	6.34	6.92	7.50	8.07	8.64
2400	3.86	4.23	4.59	4.95	5.31	6.02	6.19	6.72	7.06	7.40	8.08	8.75	9.41	10.1
2800	4.39	4.81	5.23	5.64	6.04	6.85	7.05	7.64	8.04	8.42	9.19	9.95	10.7	11.4
3200	4.90	5.37	5.84	6.30	6.75	7.65	7.87	8.53	8.97	9.40	10.2	11.1	11.9	12.7
3600	5.40	5.91	6.43	6.93	7.43	8.42	8.66	9.39	9.86	10.3	11.3	12.2	13.0	13.9
4000	5.87	6.43	6.99	7.54	8.09	9.16	9.42	10.2	10.7	11.2	12.2	13.2	14.1	15.0
5000	6.99	7.66	8.32	8.97	9.61	10.9	11.2	12.1	12.6	13.2	14.3	15.4	16.4	17.4
6000	8.00	8.76	9.51	10.2	11.0	12.3	12.7	13.7	14.3	14.9	16.1	17.1	18.1	
8000	9.69	10.6	11.5	12.3	13.1	14.6	14.9	15.9	16.6					
10000	10.9	11.8	12.7	13.6	14.4									
12000	11.5													
14000														

5M-25 RPM SMALL SHAFT	Rated Horsepower for Small Sprocket (Number of Grooves and Pitch Diameter, Inches)													
	32 2.0	34 2.1	36 2.3	38 2.38	40 2.5	44 2.8	45 2.8	48 3.0	50 3.1	52 3.3	56 3.5	60 3.8	64 4.0	68 4.2
10	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12
20	0.09	0.10	0.11	0.11	0.12	0.14	0.14	0.15	0.16	0.17	0.18	0.20	0.21	0.22
40	0.17	0.19	0.20	0.22	0.23	0.26	0.27	0.29	0.30	0.31	0.34	0.37	0.40	0.42
60	0.25	0.27	0.29	0.31	0.33	0.37	0.38	0.42	0.44	0.46	0.50	0.54	0.58	0.62
100	0.40	0.43	0.46	0.50	0.53	0.60	0.61	0.66	0.69	0.73	0.79	0.86	0.92	0.98
200	0.74	0.80	0.86	0.93	0.99	1.12	1.15	1.24	1.30	1.36	1.49	1.61	1.73	1.85
300	1.06	1.15	1.24	1.33	1.43	1.61	1.65	1.79	1.88	1.97	2.15	2.32	2.50	2.67
400	1.36	1.48	1.61	1.73	1.84	2.08	2.14	2.32	2.43	2.55	2.78	3.01	3.24	3.47
500	1.66	1.81	1.96	2.10	2.25	2.54	2.61	2.83	2.97	3.11	3.40	3.68	3.96	4.24
600	1.95	2.12	2.30	2.47	2.64	2.99	3.07	3.33	3.50	3.67	4.00	4.33	4.66	4.99
800	2.51	2.73	2.96	3.19	3.41	3.86	3.97	4.30	4.52	4.74	5.17	5.60	6.03	6.46
1000	3.04	3.32	3.60	3.88	4.15	4.70	4.83	5.24	5.50	5.77	6.30	6.83	7.35	7.87
1200	3.56	3.89	4.22	4.55	4.87	5.51	5.67	6.15	6.46	6.78	7.40	8.02	8.64	9.25
1400	4.07	4.45	4.83	5.20	5.57	6.31	6.49	7.04	7.40	7.76	8.47	9.18	9.89	10.6
1600	4.56	4.99	5.41	5.83	6.25	7.08	7.29	7.90	8.31	8.71	9.52	10.3	11.1	11.9
1800	5.05	5.52	5.99	6.46	6.92	7.84	8.07	8.75	9.20	9.65	10.5	11.4	12.3	13.2
2000	5.52	6.04	6.56	7.07	7.58	8.59	8.84	9.58	10.1	10.6	11.5	12.5	13.5	14.4
2400	6.44	7.04	7.65	8.25	8.85	10.0	10.3	11.2	11.8	12.3	13.5	14.6	15.7	16.8
2800	7.32	8.01	8.71	9.39	10.1	11.4	11.8	12.7	13.4	14.0	15.3	16.6	17.8	19.0
3200	8.17	8.95	9.73	10.5	11.3	12.8	13.1	14.2	14.9	15.7	17.1	18.5	19.8	21.2
3600	8.99	9.85	10.7	11.6	12.4	14.0	14.4	15.6	16.4	17.2	18.8	20.3	21.7	23.1
4000	9.79	10.7	11.7	12.6	13.5	15.3	15.7	17.0	17.9	18.7	20.3	21.9	23.5	25.0
5000	11.6	12.8	13.9	15.0	16.0	18.1	18.6	20.1	21.1	22.0	23.9	25.7	27.3	28.9
6000	13.3	14.6	15.9	17.1	18.3	20.6	21.1	22.8	23.8	24.8	26.8	28.6	30.2	
8000	16.1	17.6	19.1	20.5	21.8	24.3	24.9	26.6	27.6					
10000	18.2	19.7	21.2	22.6	23.9									
12000	19.2													
14000														

Shaded area indicates sprocket and RPM which can be used only if a reduction in belt life is allowable.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

8M-20		HT100 Horsepower Rating—20MM Wide Belt (.79 in.)															
RPM Small Sprocket	No. Teeth																
	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80	
10	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.08	0.08	0.09	0.11	0.12	0.14	0.15	
20	0.04	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.17	0.18	0.21	0.24	0.27	0.30	
40	0.08	0.10	0.12	0.14	0.17	0.19	0.22	0.25	0.29	0.30	0.33	0.36	0.42	0.48	0.55	0.61	
60	0.12	0.15	0.18	0.22	0.25	0.29	0.33	0.38	0.43	0.45	0.50	0.55	0.64	0.73	0.82	0.91	
100	0.22	0.25	0.30	0.36	0.42	0.48	0.55	0.63	0.72	0.76	0.83	0.91	1.06	1.21	1.36	1.51	
200	0.44	0.50	0.60	0.71	0.83	0.96	1.10	1.25	1.41	1.51	1.66	1.79	2.06	2.33	2.59	2.84	
300	0.66	0.72	0.87	1.03	1.20	1.39	1.59	1.80	2.03	2.20	2.39	2.59	2.97	3.35	3.72	4.09	
400	0.87	0.95	1.12	1.33	1.56	1.80	2.06	2.34	2.63	2.84	3.10	3.35	3.84	4.33	4.81	5.28	
500	1.09	1.19	1.37	1.63	1.91	2.20	2.52	2.86	3.21	3.47	3.78	4.09	4.69	5.28	5.86	6.43	
600	1.31	1.43	1.62	1.92	2.25	2.60	2.97	3.36	3.78	4.09	4.45	4.81	5.51	6.21	6.88	7.55	
700	1.53	1.67	1.86	2.20	2.58	2.98	3.41	3.86	4.34	4.69	5.11	5.51	6.32	7.11	7.88	8.64	
800	1.75	1.91	2.09	2.48	2.91	3.36	3.84	4.35	4.89	5.28	5.75	6.21	7.11	7.99	8.85	9.69	
870	1.90	2.07	2.26	2.68	3.13	3.62	4.13	4.68	5.26	5.69	6.19	6.68	7.65	8.59	9.51	10.41	
1000	2.18	2.38	2.58	3.03	3.54	4.09	4.68	5.30	5.95	6.43	7.00	7.55	8.64	9.69	10.72	11.72	
1160	2.53	2.76	2.99	3.46	4.04	4.67	5.33	6.04	6.79	7.33	7.97	8.59	9.82	11.00	12.15	13.27	
1200	2.62	2.85	3.09	3.56	4.16	4.81	5.49	6.22	6.99	7.55	8.20	8.85	10.11	11.32	12.50	13.64	
1400	3.05	3.33	3.60	4.08	4.77	5.50	6.29	7.12	8.01	8.64	9.38	10.11	11.52	12.89	14.20	15.46	
1600	3.48	3.80	4.11	4.58	5.36	6.18	7.06	7.99	8.98	9.69	10.52	11.32	12.89	14.38	15.81	17.17	
1750	3.81	4.15	4.49	4.95	5.79	6.68	7.63	8.64	9.70	10.47	11.35	12.21	13.88	15.46	16.96	18.37	
2000	4.34	4.73	5.11	5.61	6.49	7.49	8.55	9.68	10.87	11.72	12.70	13.64	15.46	17.17	18.76	20.23	
2400	5.19	5.65	6.11	6.69	7.58	8.74	9.97	11.28	12.66	13.64	14.75	15.81	17.82	19.66	21.31	22.78	
2800	6.03	6.56	7.08	7.75	8.62	9.93	11.33	12.80	14.36	15.46	16.67	17.82	19.94	21.83	23.44	24.77	
3200			8.04	8.79	9.60	11.06	12.61	14.24	15.96	17.17	18.45	19.66	21.83	23.65	25.09		
3500					10.36	11.86	13.52	15.26	17.10	18.37	19.69	20.92	23.06	24.77			
4000						13.12	14.94	16.85	18.86	20.23	21.57	22.78	24.77				
4500							16.23	18.29	20.44	21.89	23.20	24.33					
5000								19.57	21.85	23.33	24.55	25.52					
5500									23.05	24.55	25.61						
PD: MM	56.0	61.1	66.2	71.3	76.4	81.5	86.6	91.7	96.8	101.9	112.0	122.2	142.6	163.0	183.3	203.7	
Inches	2.21	2.41	2.61	2.81	3.01	3.21	3.41	3.61	3.81	4.01	4.41	4.81	5.61	6.42	7.22	8.02	

8M-30		HT100 Horsepower Rating—30MM Wide Belt (1.18 in.)															
RPM Small Sprocket	No. Teeth																
	22	24	26	28	30	32	34	36	38	40	44	48	56	64	72	80	
10	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.17	0.19	0.21	0.24	
20	0.07	0.08	0.10	0.11	0.13	0.15	0.17	0.20	0.23	0.24	0.26	0.29	0.33	0.38	0.43	0.48	
40	0.13	0.16	0.19	0.23	0.26	0.31	0.35	0.40	0.45	0.48	0.53	0.57	0.67	0.76	0.86	0.96	
60	0.20	0.24	0.29	0.34	0.40	0.46	0.52	0.59	0.68	0.72	0.79	0.86	1.00	1.15	1.29	1.43	
100	0.34	0.40	0.48	0.57	0.66	0.76	0.87	0.99	1.13	1.19	1.31	1.43	1.67	1.91	2.15	2.39	
200	0.69	0.78	0.94	1.12	1.31	1.52	1.74	1.97	2.22	2.39	2.62	2.83	3.25	3.67	4.08	4.48	
300	1.03	1.13	1.37	1.62	1.90	2.19	2.51	2.85	3.20	3.46	3.77	4.08	4.69	5.28	5.87	6.45	
400	1.38	1.50	1.77	2.10	2.46	2.84	3.25	3.69	4.15	4.48	4.89	5.28	6.06	6.83	7.59	8.33	
500	1.72	1.88	2.17	2.57	3.01	3.48	3.98	4.51	5.07	5.48	5.97	6.45	7.40	8.33	9.25	10.15	
600	2.07	2.26	2.55	3.03	3.54	4.09	4.68	5.31	5.96	6.45	7.02	7.59	8.70	9.79	10.86	11.91	
700	2.41	2.63	2.93	3.48	4.07	4.70	5.37	6.09	6.84	7.40	8.05	8.70	9.97	11.21	12.43	13.62	
800	2.76	3.01	3.30	3.92	4.58	5.29	6.05	6.86	7.71	8.33	9.06	9.79	11.21	12.60	13.96	15.29	
870	3.00	3.27	3.56	4.22	4.94	5.70	6.52	7.39	8.30	8.97	9.76	10.54	12.07	13.56	15.01	16.43	
1000	3.44	3.76	4.07	4.78	5.59	6.45	7.38	8.36	9.39	10.15	11.03	11.91	13.62	15.29	16.92	18.50	
1160	3.99	4.35	4.71	5.45	6.37	7.36	8.41	9.52	10.70	11.56	12.57	13.56	15.49	17.36	19.18	20.95	
1200	4.13	4.50	4.87	5.62	6.57	7.58	8.66	9.81	11.03	11.91	12.94	13.96	15.95	17.87	19.74	21.55	
1400	4.81	5.25	5.68	6.43	7.52	8.68	9.92	11.23	12.62	13.62	14.80	15.95	18.19	20.35	22.43	24.43	
1600	5.49	5.99	6.48	7.23	8.45	9.75	11.14	12.61	14.17	15.29	16.60	17.87	20.35	22.72	24.98	27.14	
1750	6.00	6.54	7.08	7.82	9.13	10.54	12.04	13.63	15.30	16.51	17.91	19.28	21.91	24.43	26.81	29.06	
2000	6.85	7.46	8.07	8.85	10.25	11.82	13.50	15.28	17.15	18.50	20.04	21.55	24.43	27.14	29.67	32.03	
2400	8.19	8.92	9.64	10.56	11.96	13.80	15.75	17.81	19.99	21.55	23.29	24.98	28.17	31.11	33.77	36.15	
2800	9.52	10.35	11.18	12.24	13.60	15.68	17.89	20.22	22.68	24.43	26.34	28.17	31.57	34.60	37.22	39.40	
3200			12.70	13.89	15.17	17.47	19.92	22.50	25.22	27.14	29.18	31.11	34.60	37.56	39.94		
3500					16.38	18.75	21.37	24.13	27.03	29.06	31.17	33.13	36.60	39.40			
4000						20.76	23.64	26.66	29.85	32.03	34.19	36.15	39.40				
4500							25.71	28.98	32.40	34.70	36.83	38.67					
5000								31.05	34.67	37.04	39.05	40.68					
5500									36.64	39.05	40.82						
PD: MM	56.0	61.1	66.2	71.3	76.4	81.5	86.6	91.7	96.8	101.9	112.0	122.2	142.6	163.0	183.3	203.7	
Inches	2.21	2.41	2.61	2.81	3.01	3.21	3.41	3.61	3.81	4.01	4.41	4.81	5.61	6.42	7.22	8.02	

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-7	ENGINEERING/TECHNICAL PAGES PT11-64
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HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

8M-50		HT100 Horsepower Rating-50MM Wide Belt (1.97 in.)											
RPM Small Sprocket	No. Teeth												
	28	30	32	34	36	38	40	44	48	56	64	72	80
10	0.10	0.11	0.13	0.15	0.17	0.20	0.21	0.23	0.25	0.29	0.33	0.37	0.41
20	0.20	0.23	0.26	0.30	0.34	0.39	0.41	0.45	0.50	0.58	0.66	0.74	0.83
40	0.39	0.46	0.53	0.60	0.69	0.79	0.83	0.91	0.99	1.16	1.32	1.49	1.65
60	0.59	0.69	0.79	0.91	1.03	1.18	1.24	1.36	1.49	1.74	1.98	2.23	2.48
100	0.98	1.15	1.32	1.51	1.71	1.96	2.07	2.27	2.48	2.89	3.31	3.72	4.13
200	1.94	2.28	2.63	3.01	3.41	3.84	4.13	4.53	4.90	5.63	6.35	7.07	7.77
300	2.81	3.29	3.80	4.35	4.93	5.54	6.00	6.53	7.07	8.12	9.15	10.16	11.17
400	3.64	4.26	4.93	5.63	6.39	7.18	7.77	8.46	9.15	10.50	11.83	13.14	14.43
500	4.45	5.21	6.02	6.89	7.80	8.78	9.49	10.33	11.17	12.81	14.43	16.01	17.58
600	5.25	7.14	7.09	8.11	9.19	10.33	11.17	12.16	13.14	15.06	16.95	18.81	20.63
700	6.02	7.04	8.14	9.31	10.54	11.85	12.81	13.95	15.06	17.26	19.42	21.53	23.60
800	6.79	7.94	9.17	10.48	11.88	13.35	14.43	15.70	16.95	19.42	21.83	24.18	26.49
870	7.31	8.55	9.88	11.29	12.79	14.38	15.54	16.91	18.25	20.90	23.48	26.01	28.47
1000	8.28	9.68	11.18	12.78	14.47	16.27	17.58	19.11	20.63	23.60	26.49	29.31	32.06
1160	9.44	11.04	12.75	14.57	16.50	18.54	20.03	21.77	23.48	26.83	30.09	33.25	36.31
1200	9.73	11.37	13.13	15.01	17.00	19.10	20.63	22.42	24.18	27.63	30.97	34.21	37.35
1400	11.14	13.02	15.04	17.18	19.45	21.85	23.60	25.63	27.63	31.52	35.27	38.88	42.35
1600	12.52	14.64	16.89	19.30	21.85	24.54	26.49	28.75	30.97	35.27	39.38	43.32	47.08
1750	13.54	15.82	18.26	20.86	23.61	26.51	28.61	31.04	33.41	37.99	42.35	46.50	50.43
2000	15.33	17.75	20.48	23.39	26.47	29.72	32.06	34.74	37.35	42.35	47.08	51.51	55.63
2400	18.30	20.73	23.91	27.29	30.87	34.64	37.35	40.38	43.32	48.89	54.02	58.69	62.88
2800	21.22	23.58	27.19	31.01	35.06	39.32	42.35	45.69	48.89	54.83	60.14	64.78	68.68
3200	24.09	26.30	30.30	34.54	39.03	43.75	47.08	50.65	54.02	60.14	65.38	69.65	
3500		28.41	32.53	37.07	41.86	46.91	50.43	54.12	57.57	63.68	68.58		
4000			36.04	41.03	46.30	51.82	55.63	59.42	62.88	68.68			
4500				44.67	50.35	56.30	60.32	64.08	67.37				
5000					53.99	60.30	64.47	68.04	70.99				
5500						63.81	68.04	71.25					
PD: MM	71.3	76.4	81.5	86.6	91.7	96.8	101.9	112.0	122.2	142.6	163.0	183.3	203.7
Inches	2.81	3.01	3.21	3.41	3.61	3.81	4.01	4.41	4.81	5.61	6.42	7.22	8.02

8M-85		HT100 Horsepower Rating-85MM Wide Belt (3.35 in.)									
RPM Small Sprocket	No. Teeth										
	34	36	38	40	44	48	56	64	72	80	
10	0.26	0.30	0.34	0.36	0.40	0.43	0.50	0.58	0.65	0.72	
20	0.53	0.60	0.68	0.72	0.79	0.86	1.01	1.15	1.29	1.44	
40	1.05	1.19	1.37	1.44	1.58	1.73	2.01	2.30	2.59	2.88	
60	1.58	1.79	2.05	2.16	2.37	2.59	3.02	3.45	3.88	4.32	
100	2.63	2.98	3.42	3.60	3.96	4.32	5.40	5.75	6.47	7.19	
200	5.24	5.94	6.68	7.19	7.88	8.53	9.80	11.05	12.29	13.51	
300	7.56	8.57	9.64	10.43	11.36	12.29	14.12	15.91	17.68	19.43	
400	9.80	11.11	12.49	13.51	14.72	15.91	18.27	20.58	22.85	25.10	
500	11.98	13.58	15.26	16.50	17.97	19.43	22.29	25.10	27.86	30.57	
600	14.10	15.98	17.97	19.43	21.15	22.85	26.21	29.49	32.72	35.89	
700	16.19	18.34	20.62	22.29	24.26	26.21	30.03	33.78	37.45	41.06	
800	18.23	20.66	23.22	25.10	27.31	29.49	33.78	37.97	42.08	46.09	
870	19.65	22.26	25.02	27.03	29.41	31.76	36.36	40.85	45.25	49.54	
1000	22.23	25.18	28.30	30.57	33.25	35.89	41.06	46.09	51.00	55.79	
1160	25.34	28.70	32.25	34.84	37.87	40.85	46.69	52.35	57.86	63.19	
1200	26.11	29.57	33.23	35.89	39.01	42.08	48.07	53.89	59.53	65.00	
1400	29.89	33.84	38.02	41.06	44.60	48.07	54.84	61.37	67.67	73.73	
1600	33.58	38.01	42.70	46.09	50.03	53.89	61.37	68.55	75.42	81.98	
1750	36.29	41.07	46.13	49.79	54.01	58.14	66.12	73.73	80.97	87.83	
2000	40.70	46.06	51.71	55.79	60.45	65.00	73.73	81.98	89.71	96.92	
2400	47.50	53.73	60.29	65.00	70.30	75.42	85.13	94.11	102.29	109.65	
2800	53.98	61.03	68.45	73.73	79.55	85.13	95.53	104.84	113.00	119.91	
3200	60.14	67.95	76.18	81.98	88.21	94.11	104.84	114.07	121.64		
3500	64.55	72.90	81.69	87.83	94.28	100.32	111.07	119.91			
4000	71.47	80.65	90.29	96.92	103.58	109.65	119.91				
4500	77.84	87.75	98.13	105.15	111.77	117.59					
5000		94.15	105.17	112.46	118.77	124.03					
5500			111.35	118.77	124.50						
PD: MM	86.6	91.7	96.8	101.9	112.0	122.2	142.6	163.0	183.3	203.7	
Inches	3.41	3.61	3.81	4.01	4.41	4.81	5.61	6.42	7.22	8.02	

Operation in shaded area will result in a reduction of belt life.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



DYNA-SYNCH

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-40		HT100 Horsepower Rating-40MM Wide Belt (1.57 in.)															
RPM Small Sprocket	No. Teeth																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
10	0.24	0.25	0.26	0.28	0.31	0.36	0.42	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	1.04
20	0.49	0.50	0.52	0.56	0.61	0.72	0.84	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	2.09
40	0.97	1.01	1.04	1.11	1.22	1.44	1.68	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.41	3.61	4.18
60	1.46	1.51	1.56	1.67	1.83	2.16	2.52	3.00	3.30	3.61	3.91	4.21	4.51	4.81	5.11	5.41	6.27
100	2.43	2.52	2.61	2.78	3.05	3.61	4.20	5.01	5.51	6.01	6.51	7.01	7.51	8.01	8.51	9.01	10.44
200	4.87	5.04	5.21	5.21	6.10	7.21	8.40	9.79	10.75	12.01	13.01	14.01	15.01	16.01	17.01	18.00	20.86
300	6.68	7.01	7.39	7.31	9.15	10.81	12.16	13.16	14.36	17.08	19.50	20.99	22.49	23.98	25.47	26.96	30.54
400	8.20	8.69	9.21	9.26	11.44	14.40	14.96	16.13	17.52	20.58	25.91	25.83	28.64	29.74	31.26	32.86	36.08
500	9.59	10.23	10.90	11.10	13.54	16.91	17.49	18.81	20.36	23.67	29.43	29.52	32.49	33.67	35.34	37.13	40.69
600	10.89	11.68	12.49	12.85	15.52	19.15	19.82	21.27	22.95	26.43	32.49	32.76	35.81	37.03	38.83	40.75	44.56
700	12.12	13.05	13.99	14.52	17.37	21.21	21.97	23.54	25.33	28.93	35.18	35.63	38.69	39.93	41.81	43.82	47.80
800	13.28	14.35	15.41	16.12	19.12	23.14	23.98	25.64	27.52	31.19	37.56	38.16	41.19	42.42	44.35	46.42	50.49
870	14.06	15.22	16.37	17.20	20.30	24.40	25.31	27.02	28.95	32.66	39.05	39.76	42.74	43.94	45.89	47.98	52.06
1000	15.46	16.77	18.07	19.13	22.37	26.61	27.61	29.42	31.43	35.14	41.50	42.38	45.22	46.34	48.26	50.34	54.33
1160	17.09	18.57	20.03	21.37	24.73	29.07	30.19	32.10	34.15	37.80	43.99	45.03	47.61	48.56	50.39	52.36	56.04
1200	17.48	19.01	20.51	21.91	25.29	29.65	30.79	32.72	34.78	38.41	44.53	45.60	48.10	49.00	50.79	52.72	56.29
1400	19.38	21.08	22.74	24.48	27.93	32.32	33.58	35.58	47.64	41.07	46.76	47.91	49.95	50.52	52.03	53.65	56.42
1600	21.18	23.00	24.80	26.84	30.31	34.64	36.00	38.04	40.02	43.18	48.27	49.36	50.83	50.96	52.03	53.16	54.72
1750	22.47	24.36	26.23	28.47	31.92	36.17	37.59	39.63	41.51	44.39	48.94	49.90	50.86	50.58	51.23	51.86	
2000	24.54	26.46	28.41	30.94	34.28	38.32	39.80	41.79	43.43	45.76	49.23	49.77	49.76	48.62	48.34		
2400	27.78	29.46	31.38	34.20	37.24	40.76	42.25	44.04	45.04	46.18	47.55	46.88					
2800		32.17	33.75	36.58	39.15	41.99	43.33	44.74	44.77	44.41							
*3200			38.02	39.99	42.01	43.02	43.88										
*3500				39.95	41.28	41.89											
PD: MM	124.8	129.2	133.7	142.6	151.5	160.4	169.3	178.3	196.1	213.9	231.7	249.6	267.4	285.2	303.0	320.9	356.5
Inches	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04

14M-55		HT100 Horsepower Rating-55MM Wide Belt (2.17 in.)															
RPM Small Sprocket	No. Teeth																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
10	0.35	0.36	0.38	0.40	0.44	0.52	0.60	0.72	0.79	0.86	0.94	1.01	1.08	1.15	1.23	1.30	1.50
20	0.70	0.73	0.75	0.80	0.88	1.04	1.21	1.44	1.59	1.73	1.87	2.02	2.16	2.31	2.45	2.59	3.01
40	1.40	1.45	1.50	1.60	1.76	2.08	2.42	2.88	3.17	3.46	3.75	4.04	4.32	4.61	4.90	5.19	6.01
60	2.10	2.18	2.25	2.40	2.64	3.11	3.63	4.32	4.76	5.19	5.62	6.05	6.49	6.92	7.35	7.78	9.02
100	3.50	3.63	3.75	4.00	4.39	5.19	6.05	7.21	7.93	8.65	9.37	10.09	10.81	11.53	12.25	12.97	15.03
200	7.00	7.25	7.50	7.50	8.78	10.38	12.09	14.10	15.47	17.29	18.72	20.16	21.60	23.04	24.47	25.91	30.02
300	9.61	10.09	10.63	10.52	13.17	15.56	17.51	18.94	20.66	24.58	28.06	30.21	32.36	34.51	36.65	38.79	43.95
400	11.80	12.50	13.25	13.32	16.46	20.73	21.52	23.21	25.22	29.62	37.29	37.17	41.21	42.80	44.98	47.29	51.92
500	13.80	14.73	15.69	15.97	19.49	24.34	25.17	27.07	29.31	34.06	42.36	42.49	46.75	48.45	50.86	53.43	58.55
600	15.67	16.81	17.97	18.49	22.33	27.55	28.52	30.61	33.03	38.04	46.76	47.15	51.53	53.29	55.88	58.64	64.13
700	17.44	18.78	20.13	20.89	25.00	30.53	31.62	33.87	36.45	41.63	50.63	51.27	55.68	57.46	60.17	63.07	68.80
800	19.11	20.65	22.18	23.19	27.52	33.29	34.51	36.90	39.60	44.89	54.05	54.92	59.28	61.04	63.82	66.80	72.66
870	20.24	21.90	23.56	24.75	29.21	35.12	36.42	38.89	41.67	47.00	56.19	57.22	61.51	63.24	66.03	69.04	74.91
1000	22.25	24.14	26.01	27.52	32.19	38.29	39.73	42.34	45.23	50.57	59.72	60.99	65.07	66.68	69.45	72.44	78.19
1160	24.60	26.73	28.83	30.75	35.59	41.84	43.45	46.19	49.15	54.40	63.30	64.80	68.51	69.89	72.52	75.35	80.65
1200	25.16	27.35	29.51	31.53	36.40	42.67	44.31	47.09	50.05	55.27	64.08	65.62	69.22	70.52	73.09	75.87	81.00
1400	27.90	30.33	32.73	35.22	40.20	46.51	48.33	51.21	54.16	59.11	67.30	68.95	71.89	72.71	74.88	77.21	81.19
1600	30.48	33.10	35.69	38.62	43.62	49.85	51.81	54.74	57.59	62.13	69.46	71.04	73.15	73.33	74.88	76.50	78.75
1750	32.34	35.05	37.75	40.97	45.94	52.04	54.09	57.02	59.74	63.89	70.43	71.82	73.20	72.79	73.72	74.64	
2000	35.32	38.08	40.89	44.53	49.34	55.14	57.28	60.15	62.51	65.85	70.84	71.63	71.60	69.97			
2400	39.97	42.40	45.16	49.22	53.59	58.65	60.80	63.37	64.81	66.46	68.42	67.46					
2800		46.29	48.57	52.64	56.34	60.42	62.35	64.39	64.43	63.91							
*3200			54.71	57.55	60.45	61.91	63.14										
*3500				57.50	59.40	60.28											
PD: MM	124.8	129.2	133.7	142.6	151.5	160.4	169.3	178.3	196.1	213.9	231.7	249.6	267.4	285.2	303.0	320.9	356.5
Inches	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04

Operation in shaded area will result in a reduction of belt life.

* Operation in this speed range may require sound dampening guard.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-85		HT100 Horsepower Rating-85MM Wide Belt (3.35 in.)															
RPM Small Sprocket	No. Teeth																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
10	0.58	0.60	0.62	0.66	0.72	0.85	0.99	1.19	1.30	1.42	1.54	1.66	1.78	1.90	2.02	2.13	2.47
20	1.15	1.19	1.23	1.32	1.45	1.71	1.99	2.37	2.61	2.84	3.08	3.32	3.56	3.79	4.03	4.27	4.95
40	2.30	2.39	2.47	2.63	2.89	3.41	3.98	4.74	5.22	5.69	6.16	6.64	7.11	7.59	8.06	8.53	9.89
60	3.46	3.58	3.70	3.95	4.34	5.12	5.97	7.11	7.82	8.53	9.24	9.96	10.67	11.38	12.09	12.80	14.84
100	5.76	5.97	6.17	6.58	7.23	8.54	9.95	11.85	13.04	14.22	15.41	16.59	17.78	18.96	20.14	21.33	24.72
200	11.52	11.93	12.34	12.34	14.45	17.07	19.89	23.18	25.44	28.43	30.80	33.16	35.52	37.89	40.25	42.61	49.38
300	15.80	16.60	17.48	17.30	21.66	25.59	28.79	31.15	33.99	40.42	46.15	49.69	53.22	56.76	60.28	63.81	72.29
400	19.40	20.56	21.80	21.91	27.07	34.09	35.40	38.18	41.48	48.72	61.33	61.13	67.79	70.40	73.98	77.79	85.39
500	22.70	24.22	25.80	26.27	32.06	40.03	41.40	44.53	48.20	56.03	69.66	69.88	76.90	79.69	83.66	87.89	96.31
600	25.78	27.65	29.56	30.41	36.72	45.32	46.91	50.34	54.33	62.56	76.91	77.55	84.76	87.66	91.91	96.45	105.5
700	28.68	30.88	33.11	34.36	41.11	50.21	52.01	55.71	59.95	68.47	83.28	84.33	91.58	94.51	98.96	103.7	113.2
800	31.43	33.96	36.48	38.14	45.26	54.76	56.76	60.69	65.13	73.83	88.89	90.33	97.50	100.4	105.0	109.9	119.5
870	33.29	36.02	38.75	40.70	48.04	57.76	59.90	63.97	68.53	77.30	92.43	94.11	101.2	104.0	108.6	113.6	123.2
1000	36.60	39.70	42.77	45.27	52.94	62.98	65.35	69.65	74.39	83.17	98.22	100.3	107.0	109.7	114.2	119.1	128.6
1160	40.45	43.96	47.42	50.58	58.54	68.82	71.46	75.97	80.83	89.48	104.1	106.6	112.7	114.9	119.3	123.9	132.6
1200	41.39	44.99	48.54	51.85	59.87	70.18	72.89	77.45	82.32	90.91	105.4	107.9	113.9	116.0	120.2	124.8	133.2
1400	45.88	49.88	53.83	57.93	66.12	76.49	79.49	84.22	89.08	97.22	110.7	113.4	118.2	119.6	123.2	127.0	133.5
1600	50.14	54.44	58.70	63.52	71.74	81.99	85.22	90.03	94.73	102.2	114.2	116.8	120.3	120.6	123.2	125.8	129.5
1750	53.20	57.65	62.09	67.39	75.55	85.60	88.97	93.79	98.26	105.1	115.8	118.1	120.4	119.7	121.2	122.8	
*2000	58.09	62.63	67.25	73.23	81.15	90.69	94.21	98.93	102.8	108.3	116.5	117.8	115.1	114.4			
*2400	65.74	69.74	74.28	80.96	88.14	96.47	100.0	104.2	106.6	109.3	112.5	111.0					
*2800		76.13	79.89	86.59	92.66	99.38	102.5	105.9	106.0	105.1							
*3200			89.98	94.66	99.43	101.8	103.9										
*3500				94.57	97.70	99.15											
PD: MM	124.8	129.2	133.7	142.6	151.5	160.4	169.3	178.3	196.1	213.9	231.7	249.6	267.4	285.2	303.0	320.9	356.5
Inches	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04

14M-115		HT100 Horsepower Rating-115MM Wide Belt (4.53 in.)															
RPM Small Sprocket	No. Teeth																
	28	29	30	32	34	36	38	40	44	48	52	56	60	64	68	72	80
10	0.81	0.84	0.87	0.93	1.02	1.21	1.41	1.67	1.84	2.01	2.18	2.34	2.51	2.68	2.85	3.01	3.49
20	1.63	1.69	1.74	1.86	2.04	2.41	2.81	3.35	3.68	4.02	4.35	4.69	5.02	5.36	5.69	6.03	6.99
40	3.26	3.37	3.49	3.72	4.08	4.82	5.62	6.70	7.37	8.04	8.71	9.38	10.05	10.72	11.39	12.06	13.97
60	4.88	5.06	5.23	5.58	6.12	7.24	8.43	10.05	11.05	12.06	13.06	14.06	15.07	16.07	17.08	18.08	20.96
100	8.14	8.43	8.72	9.30	10.21	12.06	14.05	16.74	18.42	20.09	21.76	23.44	25.11	26.78	28.46	30.13	34.92
200	16.27	16.85	17.43	17.43	20.41	24.11	28.09	32.75	35.94	40.16	43.51	46.85	50.19	53.53	56.86	60.20	69.76
300	22.32	23.45	24.70	24.44	30.60	36.15	40.68	44.00	48.01	57.11	65.20	70.20	75.19	80.18	85.10	90.14	102.1
400	27.41	29.05	30.80	30.96	38.25	48.16	50.01	53.93	58.59	68.83	86.65	86.36	95.76	99.45	104.5	109.9	120.6
500	32.07	34.22	36.45	37.11	45.29	56.55	58.48	62.90	68.10	79.15	98.42	98.72	108.6	112.6	118.2	124.2	136.1
600	36.42	39.06	41.76	42.95	51.88	64.02	66.27	71.12	76.75	88.39	108.7	109.6	119.7	123.8	129.8	136.3	149.0
700	40.51	43.63	46.78	48.54	58.08	70.93	73.47	78.70	84.69	96.73	117.6	119.1	129.4	133.5	139.8	146.5	159.9
800	44.41	47.97	51.54	53.89	63.95	77.36	80.18	85.73	92.02	104.3	125.6	127.6	137.7	141.8	148.3	155.2	168.8
870	47.03	50.89	54.74	57.50	67.87	81.60	84.62	90.37	96.82	109.2	130.6	133.0	142.9	146.9	153.4	160.4	174.1
1000	51.70	56.08	60.43	63.96	74.79	88.97	92.32	98.39	105.1	117.5	138.8	141.7	151.2	154.9	161.4	168.3	181.7
1160	57.15	62.10	66.99	71.45	82.69	97.22	100.9	107.3	114.2	126.4	147.1	150.6	159.2	162.4	168.5	175.1	187.4
1200	58.47	63.55	68.57	73.26	84.57	99.15	103.0	109.4	116.3	128.4	148.9	152.5	160.8	163.9	169.8	176.3	188.2
*1400	64.82	70.47	76.05	81.84	93.41	108.1	112.3	119.0	125.8	137.3	156.4	160.2	167.0	168.9	174.0	179.4	188.7
*1600	70.83	76.91	82.93	89.74	101.4	115.8	120.4	127.2	133.8	144.4	161.4	165.1	170.0	170.4	174.0	177.8	183.0
*1750	75.15	81.44	87.71	95.21	106.7	120.9	125.7	132.5	138.8	148.4	163.7	166.9	170.1	169.1	171.3	173.4	
*2000	82.07	88.48	95.00	103.5	114.6	128.1	133.1	139.8	145.2	153.0	164.6	166.4	162.6	161.6			
*2400	92.88	98.53	104.9	114.4	124.5	136.3	141.3	147.3	150.6	154.4	159.0	150.7					
*2800		107.6	112.9	122.3	130.9	140.4	144.9	149.6	149.7	148.5							
*3200			127.1	133.7	140.5	143.9	146.7										
*3500				133.6	138.0	140.1											
PD: MM	124.8	129.2	133.7	142.6	151.5	160.4	169.3	178.3	196.1	213.9	231.7	249.6	267.4	285.2	303.0	320.9	356.5
Inches	4.91	5.09	5.26	5.61	5.97	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04

Operation in shaded area will result in a reduction of belt life.

* Operation in this speed range may require sound dampening guard.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

14M-170		HT100 Horsepower Rating—170MM Wide Belt (6.69 in.)											
RPM Small Sprocket	No. Teeth												
	36	38	40	44	48	52	56	60	64	68	72	80	
10	1.89	2.20	2.62	2.88	3.14	3.40	3.66	3.93	4.19	4.45	4.71	5.46	
20	3.77	4.39	5.24	5.76	6.28	6.81	7.33	7.85	8.38	8.90	9.42	10.92	
40	7.54	8.79	10.47	11.52	12.56	13.61	14.66	15.71	16.75	17.80	18.85	21.84	
60	11.31	13.18	15.71	17.28	18.85	20.42	21.99	23.56	25.13	26.70	28.27	32.76	
100	18.85	21.96	26.17	28.79	31.41	34.02	36.64	39.26	41.87	44.49	47.10	54.59	
200	37.69	43.92	51.20	56.19	62.79	68.01	73.23	78.46	83.68	88.89	94.11	109.1	
300	56.51	63.59	68.78	75.06	89.27	101.9	109.7	117.5	125.3	133.1	140.9	159.6	
400	75.29	78.19	84.31	91.60	107.6	135.5	135.0	149.7	155.5	163.4	171.8	188.6	
500	88.40	91.43	98.34	106.5	123.7	153.9	154.3	169.8	176.0	184.8	194.1	212.7	
600	100.1	103.6	111.2	120.0	138.2	169.9	171.3	187.2	193.6	203.0	213.0	232.9	
700	110.9	114.9	123.0	132.4	151.2	183.9	186.2	202.2	208.7	218.5	229.1	249.9	
800	120.9	125.3	134.0	143.8	163.1	196.3	199.5	215.3	221.7	231.8	242.6	263.9	
870	127.6	132.3	141.3	151.4	170.7	204.1	207.9	223.4	229.7	239.9	250.8	272.1	
1000	139.1	144.3	153.8	164.3	183.7	216.9	221.5	236.4	242.2	252.3	263.1	284.0	
1160	152.0	157.8	167.8	178.5	197.6	229.9	235.4	248.9	253.9	263.4	273.7	292.9	
=1200	155.0	161.0	171.0	181.8	200.8	232.8	238.4	251.4	256.1	265.5	275.6	294.2	
=1400	168.9	175.5	186.0	196.7	214.7	244.4	250.4	261.1	264.1	272.0	280.4	294.9	
=1600	181.1	188.2	198.8	209.2	225.7	252.3	258.0	265.7	266.4	272.0	277.9	286.1	
=1750	189.0	196.5	207.1	217.0	232.1	255.8	260.9	265.9	264.4	267.8	271.1		
=2000	200.3	208.1	218.5	227.0	239.2	257.3	260.2	260.1	254.2	252.7			
=2400	213.1	220.8	230.2	235.4	241.4	248.5	245.0						
=2800	219.5	226.5	233.9	234.0	232.1								
=3200	219.6	224.9	229.4										
=3500	215.8	219.0											
PD: MM	160.4	169.3	178.3	196.1	213.9	231.7	249.6	267.4	285.2	303.0	320.9	356.5	
Inches	6.32	6.67	7.02	7.72	8.42	9.12	9.82	10.53	11.23	11.93	12.63	14.04	

20M-115		HT100 Horsepower Rating—115MM Wide Belt (4.53 in.)												
RPM Small Sprocket	No. Teeth													
	34	36	38	40	44	48	52	56	60	64	68	72	80	90
*10	2.7	2.9	3.1	3.3	3.6	4.0	4.3	4.6	4.9	5.1	5.4	5.6	6.1	6.7
*20	5.4	5.8	6.1	6.5	7.3	7.9	8.6	9.2	9.8	10.3	10.8	11.3	12.3	13.4
*30	8.1	8.7	9.2	9.8	10.9	11.9	12.9	13.8	14.7	15.4	16.2	16.9	18.4	20.2
*40	10.7	11.5	12.3	13.1	14.5	15.8	17.1	18.5	19.5	20.6	21.6	22.6	24.6	26.9
*50	13.4	14.4	15.3	16.3	18.1	19.8	21.4	23.1	24.4	25.7	27.0	28.2	30.7	33.6
*60	16.1	17.3	18.4	19.6	21.8	23.7	25.7	27.7	29.3	30.8	32.4	33.9	36.8	40.3
*80	21.5	23.1	24.5	26.1	29.0	31.6	34.3	36.9	39.1	41.1	43.1	45.1	49.0	53.7
*100	26.8	28.8	30.7	32.6	36.3	39.6	42.8	46.1	48.8	51.4	53.9	56.4	61.3	67.1
*150	40.3	43.2	46.0	48.9	54.4	59.3	64.2	69.2	73.2	77.0	80.8	84.5	91.8	100.5
*200	53.7	57.6	61.3	65.2	72.4	79.0	85.6	92.1	97.4	102.5	107.5	112.5	122.1	133.6
*300	77.7	83.5	88.7	94.3	105.8	117.7	125.4	132.9	140.3	147.5	154.5	161.4	174.8	190.8
*400	97.9	105.0	111.5	118.5	132.7	147.5	156.8	165.9	174.8	183.4	191.8	200.0	215.8	234.3
*500	116.7	125.0	132.7	140.9	157.6	174.8	185.5	195.9	206.0	215.8	225.2	234.3	251.6	271.5
*600	134.3	143.8	152.5	161.8	180.6	200.0	211.9	223.3	234.3	244.8	254.9	264.5	282.5	302.5
730	155.7	166.5	176.4	186.9	208.2	230.0	242.9	255.2	266.2	277.9	288.2	297.9	315.3	333.2
800	166.6	178.1	188.5	199.5	221.9	244.8	258.2	270.7	282.5	293.5	303.7	313.1	329.4	345.0
870	177.0	189.1	200.0	211.6	235.0	258.8	272.4	285.0	296.6	307.5	317.4	326.2	340.9	353.4
970	191.2	204.0	215.5	227.8	252.4	277.3	272.4	285.0	296.6	307.5	317.4	326.2	340.9	353.4
1170	217.0	231.0	243.4	256.6	282.8	309.0	321.8	332.8	342.0	349.3	354.7	358.0	358.5	
=1200	220.6	234.7	247.3	260.5	286.9	313.1	325.6	336.3	345.0	351.7	356.4	358.9	357.2	
=1460	248.6	263.5	276.4	289.9	316.3	341.8	350.6	356.5	356.2	358.6	354.5			
=1600	261.3	276.3	289.0	302.3	327.8	351.7	357.5	359.3						
=1750	273.0	287.8	300.0	312.7	336.5	357.9	359.2	355.7						
=2000	288.1	301.8	312.5	323.4	342.3	357.2								
PD: MM	216.45	229.18	241.92	254.65	280.11	305.58	331.04	356.51	381.97	407.44	432.90	458.37	509.30	572.96
Inches	8.522	9.023	9.524	10.026	11.028	12.031	13.033	14.036	15.038	16.041	17.043	18.046	20.051	22.557

Operation in shaded area will result in a reduction of belt life.

* Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.

= Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

20M-170		HT100 Horsepower Rating—170MM Wide Belt (6.69 in.)												
RPM Small Sprocket	No. Teeth													
	34	36	38	40	44	48	52	56	60	64	68	72	80	90
*10	4.2	4.5	4.8	5.1	5.6	6.1	6.7	7.2	7.6	8.0	8.4	8.8	9.5	10.4
*20	8.3	9.0	9.5	10.1	11.3	12.3	13.3	14.3	15.2	16.0	16.8	17.5	19.0	20.9
*30	12.5	13.4	14.3	15.2	16.9	18.4	20.0	21.5	22.8	23.9	25.1	26.3	28.6	31.3
*40	16.7	17.9	19.1	20.3	22.5	24.6	26.6	28.7	30.3	31.9	33.5	35.1	38.1	41.8
*50	20.8	22.4	23.8	25.3	28.2	30.7	33.3	35.8	37.9	39.9	41.9	43.8	47.6	52.2
*60	25.0	26.9	28.6	30.4	33.8	36.9	39.9	43.0	45.5	47.9	50.3	52.6	57.1	62.6
*80	33.4	35.8	38.1	40.5	45.1	49.1	53.2	57.3	60.7	63.8	67.0	70.1	76.1	83.5
*100	41.7	44.8	47.6	50.7	56.3	61.4	66.5	71.7	75.8	79.8	83.7	87.6	95.1	104.3
*150	62.5	67.2	71.4	76.0	84.4	92.1	99.7	107.4	113.6	119.6	125.4	131.2	142.5	156.1
*200	83.3	89.5	95.2	101.2	112.5	122.7	132.9	143.1	151.3	159.2	167.0	174.7	189.6	207.6
*300	120.7	129.6	137.8	146.5	164.4	182.4	194.8	206.5	217.9	229.1	240.0	250.7	271.5	296.5
*400	152.1	163.1	173.2	184.0	206.2	229.1	243.6	257.8	271.5	285.0	298.1	310.8	335.4	364.3
*500	181.2	194.3	206.2	218.8	244.8	271.5	288.3	304.5	320.2	335.4	350.1	364.3	391.4	422.6
*600	208.7	223.4	236.9	251.3	280.7	310.8	329.4	347.2	364.3	380.8	396.6	411.7	439.9	471.4
730	242.0	258.8	274.1	290.5	323.6	357.6	377.8	397.1	415.4	432.7	449.0	464.2	491.8	520.5
800	258.9	276.8	293.0	310.2	345.2	380.8	401.7	421.4	439.9	457.2	473.4	488.3	514.4	539.9
870	275.1	293.9	310.9	329.0	365.5	402.7	424.0	443.9	462.4	479.5	495.1	509.3	533.1	554.1
970	297.3	317.2	335.2	354.3	392.8	431.7	453.2	473.0	490.9	507.1	521.4	533.8	552.8	
1170	337.7	359.5	379.0	399.6	440.7	481.7	502.1	519.9	534.9	547.0	556.3	562.6	565.8	
=1200	343.3	365.4	385.0	405.8	447.1	488.3	508.3	525.6	539.9	551.2	559.4	564.4	564.5	
=1460	387.3	410.7	431.0	452.4	494.2	534.5	549.3	559.6	565.2	565.8	561.3			
=1600	407.5	431.1	451.2	472.3	512.9	551.2	561.5	566.0	564.5					
=1750	426.3	449.7	469.1	489.4	527.6	562.3	566.2	562.8						
=2000	450.8	472.8	490.1	507.8	539.1	564.5								
PD: MM	216.45	229.18	241.92	254.65	280.11	305.58	331.04	356.51	381.97	407.44	432.90	458.37	509.30	572.96
Inches	8.522	9.023	9.524	10.026	11.028	12.031	13.033	14.036	15.038	16.041	17.043	18.046	20.051	22.557

20M-230		HT100 Horsepower Rating—230MM Wide Belt (9.06 in.)										
RPM Small Sprocket	No. Teeth											
	38	40	44	48	52	56	60	64	68	72	80	90
*10	6.6	7.0	7.8	8.5	9.2	10.0	10.5	11.1	11.6	12.2	13.2	14.5
*20	13.2	14.1	15.6	17.1	18.5	19.9	21.1	22.2	23.3	24.3	26.4	29.0
*30	19.8	21.1	23.5	25.6	27.7	29.9	31.6	33.3	34.9	36.5	39.7	43.5
*40	26.5	28.1	31.3	34.1	37.0	39.8	42.1	44.3	46.5	48.7	52.9	58.0
*50	33.1	35.2	39.1	42.7	46.2	49.8	52.6	55.4	58.1	60.8	66.1	72.5
*60	39.7	42.2	46.9	51.2	55.4	59.7	63.2	66.5	69.8	73.0	79.3	87.0
*80	52.9	56.3	62.6	68.2	73.9	79.6	84.2	88.6	93.0	97.3	105.7	115.9
*100	66.1	70.3	78.2	85.3	92.4	99.5	105.2	110.8	116.2	121.6	132.1	144.8
*150	99.2	105.5	117.2	127.9	138.5	149.1	157.7	166.0	174.2	182.2	199.9	216.8
*200	132.1	140.6	156.2	170.4	184.5	198.7	210.1	221.1	231.9	242.5	263.3	288.3
*300	191.3	203.4	228.2	253.9	270.5	286.7	302.6	318.1	333.3	348.2	377.1	411.8
*400	240.5	255.5	286.3	318.1	338.3	358.0	377.1	395.8	414.0	431.8	465.9	506.2
*500	286.3	303.9	340.0	377.1	400.4	422.9	444.8	465.9	486.4	506.2	543.9	587.4
*600	329.1	349.1	389.8	431.8	457.4	482.4	506.2	529.1	551.1	572.2	611.6	655.7
730	380.8	403.5	449.6	496.8	525.0	551.9	577.4	601.5	624.3	645.7	684.4	724.9
800	406.9	430.9	479.5	529.1	558.3	585.8	611.6	635.9	658.5	679.4	716.2	752.5
870	432.0	457.1	508.0	559.7	589.4	617.2	643.1	667.1	689.0	709.0	742.8	773.0
=970	465.8	492.4	546.0	600.2	630.3	657.9	683.2	705.9	726.1	743.8	771.1	
=1170	526.9	555.6	612.9	670.2	698.9	724.0	745.3	762.8	776.3	785.7	791.9	
=1200	535.3	564.2	621.9	679.4	707.7	732.1	752.5	768.8	780.9	788.7	790.6	
=1460	599.8	629.7	688.1	744.8	766.1	781.2	789.9	791.9	787.0			
=1600	628.2	657.8	714.8	768.8	784.0	791.4	790.6					
=1750	653.6	682.2	736.0	785.4	791.9	788.7						
=2000	683.8	709.0	753.7	790.6								
PD: MM	241.92	254.65	280.11	305.58	331.04	356.51	381.97	407.44	432.90	458.37	509.30	572.96
Inches	9.524	10.026	11.028	12.031	13.033	14.036	15.038	16.041	17.043	18.046	20.051	22.557

- Operation in shaded area will result in a reduction of belt life.
- * Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.
- = Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

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SELECTION



HT100 Basic Horsepower Rating

NOTE: Multiply rating by Belt Length Correction Factor from Ratio/Center Distance Tables

20M-290		HT100 Horsepower Rating—290MM Wide Belt (11.42 in.)							
RPM Small Sprocket	No. Teeth								
	52	56	60	64	68	72	80	90	
*10	11.8	12.7	13.5	14.2	14.9	15.6	16.9	18.6	
*20	23.7	25.5	27.0	28.4	29.8	31.1	33.8	37.1	
*30	35.5	38.2	40.4	42.6	44.7	46.7	50.8	55.7	
*40	47.3	50.9	53.9	56.7	59.5	62.3	67.7	74.2	
*50	59.1	63.7	67.4	70.9	74.4	77.9	84.6	92.7	
*60	71.0	76.4	80.8	85.1	89.3	93.4	101.5	111.1	
*80	94.6	101.9	107.8	113.4	119.0	124.5	135.3	148.3	
*100	118.2	127.3	134.7	141.8	148.7	155.6	169.0	185.3	
*150	177.2	190.8	201.9	212.4	222.9	233.2	253.2	277.4	
*200	236.1	254.2	268.9	282.9	296.8	310.4	336.9	368.9	
*300	346.2	366.9	387.2	407.1	426.6	445.6	482.7	527.1	
*400	433.0	458.2	482.7	506.6	529.9	552.7	596.4	648.1	
*500	512.5	541.4	569.4	596.4	622.7	648.1	696.4	752.3	
*600	585.7	617.5	648.1	677.5	705.7	732.8	783.4	840.1	
730	672.2	706.6	739.3	770.3	799.6	827.1	877.0	929.2	
800	714.9	750.1	783.4	814.5	843.6	870.6	918.1	965.1	
870	754.8	790.6	823.8	854.6	882.9	908.7	952.4	992.0	
=970	807.3	842.9	875.4	904.7	930.9	953.8	989.4		
=1170	895.7	928.1	955.7	978.5	996.3	1008.9	1018.0		
=1200	907.0	938.5	965.1	986.4	1002.4	1012.9	1016.7		
=1460	982.9	1002.9	1014.7	1018.0					
=1600	1006.5	1016.8	1016.7						
=1750	1017.7	1014.6							
=2000									
PD: MM	331.04	356.51	381.97	407.44	432.90	458.37	509.30	572.96	
Inches	13.033	14.036	15.038	16.041	17.043	18.046	20.051	22.557	

20M-340		HT100 Horsepower Rating—340MM Wide Belt (13.39 in.)							
RPM Small Sprocket	No. Teeth								
	52	56	60	64	68	72	80	90	
*10	14.0	15.1	15.9	16.8	17.6	18.4	20.0	21.9	
*20	28.0	30.1	31.9	33.5	35.2	36.8	40.0	43.9	
*30	41.9	45.2	47.8	50.3	52.8	55.2	60.0	65.8	
*40	55.9	60.2	63.7	67.1	70.4	73.6	80.0	87.7	
*50	69.9	75.3	79.6	83.8	88.0	92.0	100.0	109.6	
*60	83.9	90.3	95.6	100.6	105.6	110.4	120.0	131.5	
*80	111.8	120.4	127.4	134.1	140.7	147.2	159.9	175.3	
*100	139.8	150.5	159.2	167.6	175.8	184.0	199.8	219.0	
*150	209.5	225.6	238.7	251.2	263.5	275.6	299.3	328.0	
*200	279.2	300.5	317.9	334.5	350.8	366.9	398.3	436.2	
*300	409.3	433.8	457.8	481.3	504.3	526.9	570.7	623.1	
*400	511.9	541.7	570.7	599.0	626.5	653.4	705.2	766.3	
*500	605.9	640.1	673.2	705.2	736.3	766.3	823.5	889.7	
*=600	692.5	730.1	766.3	801.1	834.5	866.5	926.5	993.7	
=730	794.8	835.6	874.3	911.0	945.7	978.3	1037.4	1099.5	
=800	845.3	887.1	926.5	963.4	997.8	1029.8	1086.3	1142.2	
=870	892.7	935.0	974.4	1010.9	1044.5	1075.1	1127.2	1174.4	
=970	954.8	997.0	1035.6	1070.4	1101.5	1128.7	1171.4		
=1170	1059.7	1098.2	1131.1	1158.3	1179.6	1194.8	1206.4		
=1200	1073.1	1110.6	1142.2	1167.7	1187.0	1199.8	1205.2		
=1460	1163.5	1187.5	1202.0	1206.5	1200.6				
=1600	1192.0	1204.6	1205.2						
=1750	1205.8	1202.8							
=2000									
PD: MM	331.04	356.51	381.97	407.44	432.90	458.37	509.30	572.96	
Inches	13.033	14.036	15.038	16.041	17.043	18.046	20.051	22.557	

Operation in shaded area will result in a reduction of belt life.

* Refer to page PT11-20 for additional Service Factors for speeds of 600 RPM or less.

= Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard.

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5MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																						
	Driver		Driven		300-5M	355-5M	375-5M	400-5M	425-5M	450-5M	550-5M	535-5M	565-5M	600-5M	650-5M	700-5M	750-5M	800-5M	900-5M	1000-5M	1150-5M	1300-5M	1450-5M	1600-5M	1720-5M	2100-5M	
	No. of teeth	Pitch Dia. In.	No. of teeth	Pitch Dia. In.	0.77	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.95	0.98	1.00	1.01	1.03	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29	
Length Factor*					0.77	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.95	0.98	1.00	1.01	1.03	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29	
1.00	32	2.005	32	2.005	2.76	3.84	4.23	4.73	5.22	5.71	6.69	7.38	7.97	8.66	9.65	10.63	11.62	12.60	14.57	16.54	19.49	22.44	25.40	28.35	30.71	38.19	
1.00	34	2.130	34	2.130	2.56	3.64	4.03	4.53	5.02	5.51	6.49	7.18	7.77	8.46	9.45	10.43	11.42	12.40	14.37	16.34	19.29	22.24	25.20	28.15	30.51	37.99	
1.00	36	2.256	36	2.256	...	3.45	3.84	4.33	4.82	5.32	6.30	6.99	7.58	8.27	9.25	10.24	11.22	12.21	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80	
1.00	38	2.381	38	2.381	...	3.25	3.64	4.13	4.62	5.12	6.10	6.79	7.38	8.07	9.05	10.04	11.02	12.01	13.97	15.94	18.90	21.85	24.80	27.75	30.12	37.60	
1.00	40	2.506	40	2.506	...	3.05	3.44	3.94	4.43	4.92	5.90	6.59	7.18	7.87	8.86	9.84	10.83	11.81	13.78	15.75	18.70	21.65	24.61	27.56	29.92	37.40	
1.00	44	2.757	44	2.757	...	...	...	3.54	4.03	4.53	5.51	6.20	6.79	7.48	8.46	9.45	10.43	11.42	13.38	15.35	18.31	21.26	24.21	27.17	29.53	37.01
1.00	48	3.008	48	3.008	...	...	...	3.64	4.14	4.64	5.62	6.30	6.89	7.58	8.56	9.54	10.53	11.52	13.48	15.45	18.40	21.35	24.30	27.26	29.62	37.10
1.00	52	3.258	52	3.258	...	...	...	...	3.74	4.24	5.22	5.90	6.49	7.18	8.16	9.14	10.13	11.12	13.08	15.05	18.00	20.95	23.90	26.85	29.21	36.69
1.00	56	3.509	56	3.509	...	...	...	...	...	3.84	4.82	5.50	6.09	6.78	7.76	8.74	9.73	10.72	12.68	14.65	17.60	20.55	23.50	26.45	28.81	36.29
1.00	60	3.760	60	3.760	...	...	...	...	...	4.03	5.01	5.69	6.28	6.97	7.95	8.93	9.92	10.91	12.87	14.84	17.79	20.74	23.69	26.64	29.00	36.48
1.00	64	4.010	64	4.010	...	...	...	...	...	4.22	5.20	5.88	6.47	7.16	8.14	9.12	10.11	11.10	13.06	15.03	17.98	20.93	23.88	26.83	29.19	36.67
1.00	68	4.261	68	4.261	...	...	...	...	...	4.41	5.39	6.07	6.66	7.35	8.33	9.31	10.30	11.29	13.25	15.22	18.17	21.12	24.07	27.02	29.38	36.86
1.04	50	3.133	52	3.258	...	...	...	...	3.84	4.82	5.51	6.10	6.79	7.78	8.76	9.75	10.73	12.70	14.67	17.62	20.57	23.53	26.48	28.84	36.32	
1.05	38	2.381	40	2.506	...	3.15	3.54	4.04	4.53	5.02	6.00	6.69	7.28	7.97	8.96	9.94	10.93	11.91	13.88	15.85	18.80	21.75	24.71	27.66	30.02	37.50	
1.06	36	2.256	38	2.381	...	3.05	3.44	4.23	4.72	5.22	6.20	6.89	7.48	8.17	9.15	10.14	11.12	12.11	14.07	16.04	19.00	21.95	24.90	27.85	30.22	37.70	
1.06	34	2.130	36	2.256	...	3.54	3.93	4.43	4.92	5.41	6.39	7.08	7.67	8.37	9.35	10.34	11.32	12.31	14.27	16.24	19.20	22.15	25.10	28.05	30.42	37.90	
1.06	68	4.261	72	4.511	...	...	...	...	...	...	...	...	...	4.92	5.90	6.89	7.87	8.86	10.82	12.79	15.75	18.70	21.66	24.61	26.97	34.45
1.06	32	2.005	34	2.130	2.66	3.74	4.13	4.63	5.12	5.61	6.59	7.28	7.87	8.56	9.55	10.53	11.52	12.50	14.47	16.44	19.39	22.34	25.30	28.25	30.61	38.09	
1.06	64	4.010	68	4.261	4.62	5.31	6.30	7.28	8.27	9.25	11.22	13.19	16.14	19.09	22.05	25.00	27.36	34.84
1.07	60	3.760	64	4.010	...	...	...	...	...	...	4.43	5.02	5.71	6.69	7.68	8.66	9.65	10.63	12.60	14.57	17.52	20.47	23.42	26.37	28.73	36.21
1.07	56	3.509	60	3.760	...	...	...	...	...	4.13	4.82	5.41	6.10	7.08	8.07	9.06	10.04	11.02	13.00	14.97	17.92	20.87	23.82	26.77	29.13	36.61
1.08	52	3.258	56	3.509	...	...	...	...	...	4.52	5.21	5.80	6.49	7.48	8.46	9.45	10.43	11.42	13.38	15.35	18.30	21.25	24.20	27.15	29.51	36.99
1.08	48	3.008	52	3.258	...	...	...	...	3.94	4.92	5.61	6.20	6.89	7.87	8.86	9.84	10.83	11.81	13.78	15.75	18.70	21.65	24.60	27.55	29.91	37.39
1.09	44	2.757	48	3.008	...	...	3.34	3.84	4.33	5.31	6.00	6.59	7.28	8.27	9.25	10.24	11.22	12.21	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80
1.10	40	2.506	44	2.757	...	...	3.24	3.74	4.23	4.72	5.71	6.40	6.99	7.68	8.66	9.65	10.63	11.62	13.58	15.55	18.51	21.46	24.41	27.36	30.71	38.19
1.11	36	2.256	40	2.506	...	3.25	3.64	4.13	4.62	5.12	6.10	6.79	7.38	8.07	9.05	10.04	11.02	12.01	13.97	15.94	18.90	21.85	24.80	27.75	30.12	37.60	
1.12	34	2.130	38	2.381	...	3.44	3.84	4.33	4.82	5.32	6.30	6.99	7.58	8.27	9.25	10.24	11.22	12.21	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80	
1.13	32	2.005	36	2.256	2.56	3.64	4.03	4.53	5.02	5.51	6.49	7.18	7.77	8.46	9.45	10.43	11.42	12.40	14.37	16.34	19.29	22.24	25.20	28.15	30.51	37.99	
1.13	64	4.010	72	4.511	4.42	5.11	6.10	7.08	8.07	9.05	11.02	12.99	15.95	18.90	21.85	24.80	27.17	34.65
1.13	60	3.760	68	4.261	...	...	...	...	...	4.81	5.50	6.49	7.48	8.46	9.45	11.41	13.38	16.34	19.29	22.24	25.19	28.14	31.09	34.04	36.40	43.88
1.14	56	3.509	64	4.010	...	...	...	...	...	4.62	5.21	5.90	6.89	7.87	8.86	9.84	10.83	11.81	13.78	16.73	19.68	22.64	25.59	28.54	30.90	38.38
1.15	52	3.258	60	3.760	...	...	...	...	...	4.32	5.01	5.60	6.29	7.28	8.26	9.25	10.23	11.22	13.19	15.16	18.11	21.06	24.01	26.96	29.32	36.80
1.16	38	2.381	44	2.757	...	2.95	3.34	3.84	4.33	4.82	5.80	6.49	7.08	7.77	8.76	9.74	10.73	11.71	13.68	15.65	18.60	21.55	24.50	27.45	29.82	37.30	
1.17	48	3.008	56	3.509	...	...	...	...	3.73	4.71	5.41	6.00	6.69	7.67	8.66	9.64	10.63	11.62	13.58	15.55	18.50	21.45	24.40	27.35	29.71	37.19
1.18	34	2.130	40	2.506	...	3.34	3.73	4.23	4.72	5.22	6.20	6.89	7.48	8.17	9.15	10.14	11.12	12.11	14.07	16.04	19.00	21.95	24.90	27.85	30.22	37.70	
1.18	68	4.261	80	5.013	...	...	...	...	...	...	...	...	...	...	5.50	6.49	7.47	8.46	10.42	12.40	15.35	18.30	21.26	24.21	26.57	34.05
1.18	44	2.757	52	3.258	...	...	...	...	3.63	4.13	5.11	5.80	6.39	7.08	8.07	9.05	10.04	11.02	12.99	14.96	17.91	20.86	23.82	26.77	29.13	36.61
1.19	32	2.005	38	2.381	...	3.54	3.93	4.43	4.92	5.41	6.39	7.08	7.67	8.36	9.35	10.33	11.32	12.30	14.27	16.24	19.19	22.14	25.10	28.05	30.42	37.90	
1.20	40	2.506	48	3.008	...	...	3.54	4.03	4.52	5.50	6.19	6.78	7.48	8.46	9.45	10.43	11.42	12.40	14.37	16.34	19.29	22.24	25.19	27.55	30.02	37.50
1.20	60	3.760	72	4.511	...	...	...	...	...	...	4.61	5.30	6.29	7.27	8.26	9.25	10.23	11.22	13.18	15.14	18.09	21.04	23.99	26.94	29.30	36.78
1.21	56	3.509	68	4.261	...	...	...	...	...	4.41	5.00	5.70	6.68	7.67	8.65	9.64	10.63	11.61	13.58	15.55	18.50	21.45	24.40	27.35	29.71	37.19
1.22	36	2.256	44	2.757	...	3.04	3.43	3.93	4.42	4.92	5.90	6.59	7.18	7.87	8.85	9.84	10.82	11.81	13.78	15.75	18.70	21.65	24.61	27.56	29.92	37.40	
1.23	52	3.258	64	4.010	...	...	...	...	4.11	4.60	5.59	6.28	6.87	7.56	8.54	9.53	10.52	11.51	13.47	15.44	18.39	21.34	24.29	27.24	29.60	37.08
1.25	32	2.005	40	2.506	...	3.44	3.83	4.32	4.82	5.31	6.29	6.98	7.57	8.26	9.25	10.23	11.22	12.20	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80	
1.25	48	3.008	60	3.760	...	...	...	...	...	4.51	5.20	5.79	6.48	7.47	8.46	9.44	10.43	11.42	13.38	15.35	18.30	21.25	24.20	27.15	29.51	36.99
1.25	64	4.010	80	5.013	...	...	...	...	...	...	4.70	5.69	6.67	7.66	8.65	9.64	10.62	11.61	13.57	15.54	18.49	21.44	24.39	27.34	29.70	37.18
1.26	38	2.381	48	3.008	...	3.13	3.63	4.12	4																		



SELECTION



5MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																						
	Driver		Driven		300-5M	355-5M	375-5M	400-5M	425-5M	450-5M	550-5M	535-5M	565-5M	600-5M	650-5M	700-5M	750-5M	800-5M	900-5M	1000-5M	1150-5M	1300-5M	1450-5M	1600-5M	1720-5M	2100-5M	
	No. of teeth	Pitch Dia. In.	No. of teeth	Pitch Dia. In.																							
Length Factor					0.77	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.95	0.98	1.00	1.01	1.03	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29	
1.39	52	3.258	72	4.511	...	...	...	...	...	4.38	4.98	5.67	6.66	7.65	8.64	9.63	11.60	13.57	16.53	19.48	22.43	25.39	27.75	35.23		
1.40	40	2.506	56	3.509	...	...	...	3.61	4.11	5.09	5.78	6.38	7.07	8.06	9.04	10.03	11.01	12.98	14.95	17.91	20.86	23.82	26.77	29.13	36.61	
1.41	64	4.010	90	5.639	...	...	...	...	...	...	...	...	...	5.15	6.15	7.14	8.13	10.10	12.08	15.04	17.99	20.95	23.90	26.27	33.75	
1.41	34	2.130	48	3.008	...	2.92	3.32	3.81	4.31	4.80	5.79	6.48	7.07	7.76	8.75	9.73	10.72	11.71	13.67	15.64	18.60	21.55	24.51	27.46	29.82	37.30	
1.42	48	3.008	68	4.261	...	...	...	...	...	...	4.08	4.78	5.37	6.07	7.06	8.05	9.03	10.02	11.99	13.96	16.92	19.87	22.83	25.78	28.14	35.63
1.43	56	3.509	80	5.013	...	...	...	...	...	...	...	...	...	5.06	6.06	7.05	8.04	9.03	11.00	12.97	15.93	18.88	21.84	24.79	27.16	34.64
1.44	36	2.256	52	3.258	...	...	...	3.51	4.00	4.50	5.49	6.18	6.77	7.46	8.45	9.44	10.42	11.41	13.37	15.35	18.30	21.25	24.21	27.16	29.33	37.01
1.46	44	2.757	64	4.010	...	...	...	...	...	...	4.48	5.18	5.77	6.46	7.45	8.44	9.43	10.42	12.38	14.36	17.31	20.27	23.22	26.17	28.54	36.02
1.47	38	2.381	56	3.509	...	...	...	...	3.70	4.20	5.18	5.88	6.47	7.16	8.15	9.14	10.12	11.11	13.08	15.05	18.01	20.96	23.91	26.86	29.23	36.71
1.50	32	2.005	48	3.008	...	3.01	3.41	3.91	4.40	4.90	5.88	6.57	7.17	7.86	8.84	9.83	10.82	11.80	13.77	15.74	18.70	21.65	24.60	27.55	29.92	37.40	
1.50	40	2.506	60	3.760	...	...	...	...	...	3.89	4.88	5.57	6.17	6.86	7.85	8.84	9.82	10.81	12.78	14.75	17.71	20.66	23.62	26.57	28.93	36.41
1.50	48	3.008	72	4.511	...	...	...	...	...	...	4.56	5.16	5.86	6.85	7.84	8.83	9.82	11.79	13.76	16.72	19.67	22.63	25.58	27.94	35.43	
1.50	60	3.760	90	5.639	...	...	...	...	...	...	...	...	...	5.33	6.33	7.32	8.31	10.29	12.27	15.23	18.18	21.14	24.09	26.46	33.95	
1.53	34	2.130	52	3.258	...	...	3.10	3.60	4.09	4.59	5.58	6.27	6.87	7.56	8.54	9.53	10.52	11.50	13.47	15.44	18.40	21.35	24.31	27.26	29.62	37.10
1.54	52	3.258	80	5.013	...	...	...	...	...	...	...	...	4.54	5.24	6.24	7.23	8.22	9.21	11.18	13.16	16.12	19.07	22.03	24.98	27.35	34.83
1.55	44	2.757	68	4.261	...	...	...	...	...	...	4.26	4.96	5.56	6.25	7.24	8.23	9.22	10.21	12.18	14.15	17.11	20.06	23.02	25.97	28.34	35.82
1.56	36	2.256	56	3.509	...	...	...	3.29	3.79	4.29	5.27	5.97	6.56	7.26	8.24	9.23	10.22	11.20	13.17	15.14	18.10	21.05	24.01	26.96	29.33	36.81
1.58	38	2.381	60	3.760	...	...	...	...	3.47	3.98	4.97	5.66	6.26	6.95	7.94	8.93	9.92	10.91	12.87	14.85	17.80	20.76	23.71	26.66	29.03	36.51
1.60	40	2.506	64	4.010	...	...	...	...	...	3.66	4.66	5.36	5.95	6.65	7.64	8.63	9.62	10.61	12.57	14.55	17.51	20.46	23.42	26.37	28.73	36.21
1.61	56	3.509	90	5.639	...	...	...	...	...	...	...	...	...	5.51	6.51	7.50	8.50	10.48	12.45	15.42	18.37	21.33	24.29	26.65	34.14	
1.63	32	2.005	52	3.258	...	...	3.18	3.69	4.18	4.68	5.67	6.37	6.96	7.65	8.64	9.63	10.61	11.60	13.57	15.54	18.50	21.45	24.40	27.35	29.72	37.20
1.64	44	2.757	72	4.511	...	...	...	...	...	...	4.04	4.74	5.34	6.04	7.03	8.02	9.01	10.00	11.97	13.95	16.91	19.86	22.82	25.77	28.14	35.62
1.65	34	2.130	56	3.509	...	...	...	3.38	3.87	4.38	5.37	6.06	6.66	7.35	8.34	9.33	10.31	11.30	13.27	15.24	18.20	21.15	24.11	27.06	29.42	36.90
1.65	68	4.261	112	7.018	...	...	...	...	...	...	...	...	...	...	...	...	...	6.75	8.75	10.74	13.71	16.67	19.64	22.59	24.96	32.45
1.67	36	2.256	60	3.760	...	...	...	...	3.56	4.07	5.06	5.76	6.35	7.04	8.03	9.02	10.01	11.00	12.97	14.94	17.90	20.85	23.81	26.76	29.13	36.61
1.67	48	3.008	80	5.013	...	...	...	...	...	...	...	4.71	5.42	6.42	7.41	8.41	9.40	11.37	13.35	16.31	19.26	22.22	25.18	27.54	35.03	
1.68	38	2.381	64	4.010	...	...	...	...	3.75	4.75	5.45	6.05	6.74	7.73	8.72	9.71	10.70	12.67	14.64	17.60	20.55	23.51	26.46	28.83	36.31	
1.70	40	2.506	68	4.261	...	...	...	...	...	4.44	5.14	5.74	6.44	7.43	8.42	9.41	10.40	12.37	14.34	17.30	20.26	23.21	26.17	28.53	36.01	
1.73	52	3.258	90	5.639	...	...	...	...	...	...	4.67	5.68	6.69	7.68	8.68	9.67	10.66	12.64	15.61	18.56	21.52	24.48	26.85	34.33		
1.75	32	2.005	56	3.509	...	...	3.46	3.96	4.47	4.96	5.46	6.15	6.75	7.44	8.43	9.42	10.41	11.39	13.36	16.34	19.29	22.25	25.20	27.15	29.52	37.00
1.75	64	4.010	112	7.018	5.91	6.92	8.93	10.92	13.90	16.86	19.83	22.78	25.15	32.64
1.77	34	2.130	60	3.760	...	...	...	3.65	4.15	5.15	5.85	6.44	7.14	8.13	9.12	10.11	11.09	13.06	15.04	18.00	20.95	23.91	26.86	29.23	36.70	
1.78	36	2.256	64	4.010	...	...	...	...	3.84	4.84	5.54	6.14	6.83	7.82	8.82	9.80	10.79	12.76	14.74	17.70	20.65	23.61	26.56	28.93	36.41	
1.79	38	2.381	68	4.261	...	...	...	...	...	4.53	5.23	5.83	6.53	7.52	8.51	9.50	10.49	12.46	14.44	17.40	20.35	23.31	26.26	28.63	36.11	
1.80	40	2.506	72	4.511	...	...	...	...	...	4.21	4.92	5.52	6.22	7.21	8.21	9.20	10.19	12.16	14.14	17.10	20.05	23.01	25.96	28.33	35.81	
1.80	50	3.133	90	5.639	...	...	...	...	...	...	...	4.75	5.77	6.77	7.77	8.77	9.77	10.75	12.73	15.70	18.66	21.62	24.57	26.94	34.43	
1.82	44	2.757	80	5.013	...	...	...	...	...	...	4.28	4.89	5.59	6.60	7.59	8.59	9.58	11.56	13.54	16.50	19.45	22.41	25.37	27.73	35.22	
1.87	60	3.760	112	7.018	6.08	7.10	9.10	11.10	14.08	17.05	20.01	22.97	25.34	32.83
1.88	32	2.005	60	3.760	...	...	3.23	3.73	4.24	5.24	5.94	6.53	7.23	8.22	9.21	10.20	11.19	13.16	15.13	18.09	21.04	24.00	26.95	29.32	36.80	
1.88	48	3.008	90	5.639	...	...	...	...	...	...	4.84	5.86	6.86	7.86	8.86	9.86	10.86	12.83	15.83	18.79	21.75	24.71	27.04	34.52		
1.88	34	2.130	64	4.010	...	...	...	3.41	3.92	4.93	5.63	6.23	6.92	7.92	8.91	9.90	10.89	12.86	14.83	17.79	20.75	23.70	26.66	29.02	36.51	
1.89	36	2.256	68	4.261	...	...	...	...	3.60	4.61	5.32	5.92	6.62	7.61	8.60	9.59	10.58	12.56	14.53	17.49	20.45	23.41	26.36	28.72	36.21	
1.90	38	2.381	72	4.511	...	...	...	...	...	4.29	5.00	5.61	6.31	7.30	8.30	9.29	10.28	12.26	14.23	17.19	20.15	23.11	26.06	28.43	35.91	
2.00	32	2.005	64	4.010	...	...	...	3.50	4.01	5.02	5.72	6.32	7.01	8.01	9.00	9.99	10.98	12.95	14.93	17.89	20.84	23.80	26.75	29.12	36.60	
2.00	34	2.130	68	4.261	...	...	...	...	3.69	4.70	5.41	6.01	6.71	7.70	8.70	9.69	10.68	12.65	14.63	17.59	20.54	23.50	26.45	28.82	36.30	
2.00	36	2.256	72	4.511	...	...	...	...	...	4.38	5.09	5.69	6.40	7.39	8.39	9.38	10.37	12.35	14.33	17.29	20.24	23.20	26.16	28.52	36.01	
2.00	40	2.506	80	5.013	...	...	...	...	...	4.45	5.06	5.77	6.77	7.77	8.77	9.77	10.76	12.74	14.72	17.69	20.64	23.60	26.56	28.92	36.41	
2.00	56	3.509	112	7.018	6.25	7.27	9.28	11.28	14.26	17.23	20.20	23.16	25.53	33.03
2.05	44	2.757	90	5.639	...	...	...	...	...	...	...	...	...	5.01	6.03	7.04	8.04	9.04	11.03	13.01	15.98	18.94	21.90	24.86	27.23	34.72
2.11	38	2.381	80	5.013	...	...	...	...	...	...	4.53	5.14	5.85	6.86	7.86	8.86	9.85	11.83	13.82	16.78	19.7					



SELECTION



5MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																						
	Driver		Driven		300-5M	355-5M	375-5M	400-5M	425-5M	450-5M	550-5M	535-5M	565-5M	600-5M	650-5M	700-5M	750-5M	800-5M	900-5M	1000-5M	1150-5M	1300-5M	1450-5M	1600-5M	1720-5M	2100-5M	
	No. of teeth	Pitch Dia. In.	No. of teeth	Pitch Dia. In.
Length Factor*					0.77	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.95	0.98	1.00	1.01	1.03	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29	
2.50	32	2.005	80	5.013	...	...	...	...	...	...	4.05	4.78	5.40	6.11	7.12	8.13	9.13	10.13	12.11	14.09	17.06	20.02	22.98	25.94	28.31	35.80
2.50	36	2.256	90	5.639	...	...	...	...	...	...	...	...	4.60	5.34	6.37	7.38	8.39	9.40	11.39	13.38	16.35	19.32	22.28	25.24	27.61	35.10
2.55	44	2.757	112	7.018	...	...	...	...	...	...	...	...	...	...	...	5.70	6.75	7.78	9.81	11.82	14.81	17.78	20.76	23.72	26.10	33.60
2.65	34	2.130	90	5.639	...	...	...	...	...	...	...	...	4.69	5.42	6.45	7.47	8.48	9.49	11.48	13.47	16.44	19.41	22.37	25.33	27.70	35.19
2.80	40	2.506	112	7.018	...	...	...	...	...	...	...	...	...	...	...	5.86	6.91	7.95	9.98	11.99	14.99	17.97	20.94	23.91	26.28	33.78
2.81	32	2.005	90	5.639	...	...	...	...	...	...	...	4.12	4.77	5.50	6.54	7.56	8.57	9.57	11.57	13.56	16.54	19.50	22.47	25.43	27.80	35.29
2.95	38	2.381	112	7.018	...	...	...	...	...	...	...	...	...	...	...	5.94	7.00	8.03	10.06	12.08	15.08	18.06	21.04	24.00	26.38	33.88
3.11	36	2.256	112	7.018	4.92	6.02	7.08	8.11	10.15	12.17	15.17	18.15	21.13	24.09	26.47	33.97
3.29	34	2.130	112	7.018	5.00	6.10	7.16	8.20	10.24	12.26	15.26	18.24	21.22	24.19	26.56	34.07
3.50	32	2.005	112	7.018	5.08	6.18	7.24	8.28	10.32	12.34	15.35	18.33	21.31	24.28	26.66	34.16
Length Factor*					0.77	0.81	0.83	0.84	0.86	0.88	0.90	0.92	0.94	0.95	0.98	1.00	1.01	1.03	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29	

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged.
 Large Sprocket should be ordered with flanges as a special.

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																
	Driver		Driven		384-8M	480-8M	560-8M	600-8M	640-8M	720-8M	800-8M	840-8M	880-8M	920-8M	960-8M	1040-8M	1064-8M	1120-8M	1160-8M	1200-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches																	
Length Factor*					0.70	0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	22	2.206	22	2.206	4.09	5.98	7.56	8.34	9.13	10.71	12.28	13.07	13.86	14.64	15.43	17.00	17.48	18.58	19.37	20.15	
1.00	24	2.406	24	2.406	3.78	5.67	7.25	8.03	8.82	10.40	11.97	12.76	13.55	14.33	15.12	16.69	17.17	18.27	19.06	19.84	
1.00	26	2.607	26	2.607	3.46	5.35	6.93	7.71	8.50	10.08	11.65	12.44	13.23	14.01	14.80	16.37	16.85	17.95	18.74	19.52	
1.00	28	2.807	28	2.807	...	5.04	6.62	7.40	8.19	9.77	11.34	12.13	12.92	13.70	14.49	16.06	16.54	17.64	18.43	19.21	
1.00	30	3.008	30	3.008	...	4.73	6.30	7.09	7.88	9.45	11.03	11.81	12.60	13.39	14.18	15.75	16.22	17.32	18.11	18.90	
1.00	32	3.208	32	3.208	...	4.41	5.99	6.77	7.56	9.14	10.71	11.50	12.29	13.07	13.86	15.43	15.91	17.01	17.80	18.58	
1.00	34	3.409	34	3.409	...	4.10	5.67	6.46	7.25	8.82	10.40	11.18	11.97	12.76	13.55	15.12	15.59	16.69	17.48	18.27	
1.00	36	3.609	36	3.609	...	...	5.36	6.14	6.93	8.51	10.08	10.87	11.66	12.44	13.23	14.80	15.28	16.38	17.17	17.95
1.00	38	3.810	38	3.810	...	...	5.04	5.83	6.62	8.19	9.77	10.55	11.34	12.13	12.92	14.49	14.96	16.06	16.85	17.64
1.00	40	4.010	40	4.010	...	...	4.73	5.51	6.30	7.88	9.45	10.24	11.03	11.81	12.60	14.17	14.65	15.75	16.54	17.32
1.00	44	4.411	44	4.411	...	...	...	...	5.67	7.25	8.82	9.61	10.40	11.18	11.97	13.54	14.02	15.12	15.91	16.69
1.00	48	4.812	48	4.812	...	...	...	...	...	6.62	8.19	8.98	9.77	10.55	11.34	12.91	13.39	14.49	15.28	16.06
1.00	56	5.614	56	5.614	...	...	...	...	...	...	6.93	7.72	8.51	9.29	10.08	11.65	12.13	13.23	14.02	14.80
1.00	64	6.416	64	6.416	...	...	...	...	...	...	...	...	7.25	8.03	8.82	10.39	10.87	11.97	12.76	13.54
1.00	72	7.218	72	7.218	...	...	...	...	...	...	...	...	...	...	...	9.13	9.61	10.71	11.50	12.28
1.00	80	8.020	80	8.020	...	...	...	...	...	...	...	...	...	...	...	...	...	9.45	10.24	11.02
1.05	38	3.810	40	4.010	...	...	4.88	5.67	6.46	8.03	9.61	10.39	11.18	11.97	12.76	14.33	14.80	15.90	16.69	17.48
1.06	36	3.609	38	3.810	...	...	5.20	5.98	6.77	8.35	9.92	10.71	11.50	12.28	13.07	14.64	15.12	16.22	17.01	17.79
1.06	34	3.409	36	3.609	...	...	5.51	6.30	7.09	8.66	10.24	11.02	11.81	12.60	13.39	14.96	15.43	16.53	17.32	18.11
1.06	32	3.208	34	3.409	...	...	4.25	5.83	6.61	7.40	8.98	10.55	11.34	12.13	12.91	13.70	15.27	15.75	16.85	17.64
1.07	30	3.008	32	3.208	...	...	4.57	6.14	6.93	7.72	9.29	10.87	11.65	12.44	13.23	14.02	15.59	16.06	17.16	17.95
1.07	28	2.807	30	3.008	...	...	4.88	6.46	7.24	8.03	9.61	11.18	11.97	12.76	13.54	14.33	15.90	16.38	17.48	18.27
1.08	26	2.607	28	2.807	3.31	5.20	6.77	7.56	8.35	9.92	11.50	12.28	13.07	13.86	14.65	16.22	16.69	17.79	18.58	19.37	
1.08	24	2.406	26	2.607	3.62	5.51	7.09	7.87	8.66	10.24	11.81	12.60	13.39	14.17	14.96	16.53	17.01	18.11	18.90	19.68	
1.09	22	2.206	24	2.406	3.94	5.83	7.40	8.19	8.98	10.55	12.13	12.91	13.70	14.49	15.28	16.85	17.32	18.42	19.21	20.00	
1.09	44	4.411	48	4.812	...	...	...	...	5.35	6.93	8.50	9.29	10.08	10.86	11.65	13.22	13.70	14.80	15.59	16.38
1.10	40	4.010	44	4.411	...	...	...	5.19	5.98	7.56	9.13	9.92	10.71	11.49	12.28	13.85	14.33	15.43	16.22	17.00
1.11	36	3.609	40	4.010	...	...	5.04	5.82	6.61	8.19	9.76	10.55	11.34	12.12	12.91	14.48	14.96	16.06	16.85	17.63
1.11	72	7.218	80	8.020	...	...	...	...	...	...	...	...	...	...	...	8.49	8.97	10.07	10.86	11.65
1.12	34	3.409	38	3.810	...	...	5.35	6.14	6.93	8.50	10.08	10.86	11.65	12.44	13.23	14.80	15.27	16.37	17.16	17.95
1.13	32	3.208	36	3.609	...	4.09	5.67	6.45	7.24	8.82	10.39	11.18	11.97	12.75	13.54	15.11	15.59	16.69	17.48	18.26	
1.13	64	6.416	72	7.218	...	...	...	...	...	...	...	...	...	7.39	8.18	9.75	10.23	11.33	12.12	12.91
1.13	80	8.020	90	9.023	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9.44	10.22
1.13	30	3.008	34	3.409	...	4.41	5.98	6.77	7.56	9.13	10.71	11.49	12.28	13.07	13.86	15.43	15.90	17.00	17.79	18.58	
1.14	28	2.807	32	3.208	...	4.72	6.30	7.08	7.87	9.45	11.02	11.81	12.60	13.38	14.17	15.74	16.22	17.32	18.11	18.89	
1.14	56	5.614	64	6.416	...	...	...	...	...	...	...	7.08	7.87	8.65	9.44	11.01	11.49	12.59	13.38	14.17
1.15	26	2.607	30	3.008	...	5.04	6.61	7.40	8.19	9.76	11.34	12.12	12.91	13.70	14.49	16.06	16.53	17.63	18.42	19.21	
1.16	38	3.810	44	4.411	...	...	...	5.34	6.14	7.71	9.29	10.07	10.86	11.65	12.44	14.01	14.49	15.59	16.38	17.16
Length Factor*					0.70	0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																		
	Driver		Driven		1224-8M	1280-8M	1440-8M	1512-8M	1584-8M	1600-8M	1760-8M	1800-8M	2000-8M	2200-8M	2400-8M	2600-8M	2800-8M	3048-8M	3280-8M	3600-8M	4400-8M		
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Diam. Inches																			
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1.00	22	2.206	22	2.206	20.63	21.73	24.88	26.30	27.71	28.03	31.18	31.97	35.90	39.84	43.78	47.71	51.65	56.53	61.10	67.40	83.15		
1.00	24	2.406	24	2.406	20.32	21.42	24.57	25.99	27.40	27.72	30.87	31.66	35.59	39.53	43.47	47.40	51.34	56.22	60.79	67.09	82.84		
1.00	26	2.607	26	2.607	20.00	21.10	24.25	25.67	27.08	27.40	30.55	31.34	35.27	39.21	43.15	47.08	51.02	55.90	60.47	66.77	82.52		
1.00	28	2.807	28	2.807	19.69	20.79	23.94	25.36	26.77	27.09	30.24	31.03	34.96	38.90	42.84	46.77	50.71	55.59	60.16	66.46	82.21		
1.00	30	3.008	30	3.008	19.37	20.47	23.62	25.04	26.46	26.77	29.92	30.71	34.65	38.58	42.52	46.46	50.40	55.28	59.84	66.14	81.89		
1.00	32	3.208	32	3.208	19.06	20.16	23.31	24.73	26.14	26.46	29.61	30.40	34.33	38.27	42.21	46.14	50.08	54.96	59.53	65.83	81.58		
1.00	34	3.409	34	3.409	18.74	19.84	22.99	24.41	25.83	26.14	29.29	30.08	34.02	37.95	41.89	45.83	49.77	54.65	59.21	65.51	81.26		
1.00	36	3.609	36	3.609	18.43	19.53	22.68	24.10	25.51	25.83	28.98	29.77	33.70	37.64	41.58	45.51	49.45	54.33	58.90	65.20	80.95		
1.00	38	3.810	38	3.810	18.11	19.21	22.36	23.78	25.20	25.51	28.66	29.45	33.39	37.32	41.26	45.20	49.14	54.02	58.58	64.88	80.63		
1.00	40	4.010	40	4.010	17.80	18.90	22.05	23.47	24.88	25.20	28.35	29.14	33.07	37.01	40.95	44.88	48.82	53.70	58.27	64.57	80.32		
1.00	44	4.411	44	4.411	17.17	18.27	21.42	22.84	24.25	24.57	27.72	28.51	32.44	36.38	40.32	44.25	48.19	53.07	57.64	63.94	79.69		
1.00	48	4.812	48	4.812	16.54	17.64	20.79	22.21	23.62	23.94	27.09	27.88	31.81	35.75	39.69	43.62	47.56	52.44	57.01	63.31	79.06		
1.00	56	5.614	56	5.614	15.28	16.38	19.53	20.95	22.36	22.68	25.83	26.62	30.55	34.49	38.43	42.36	46.30	51.18	55.75	62.05	77.80		
1.00	64	6.416	64	6.416	14.02	15.12	18.27	19.69	21.10	21.42	24.57	25.36	29.29	33.23	37.17	41.10	45.04	49.92	54.49	60.79	76.54		
1.00	72	7.218	72	7.218	12.76	13.86	17.01	18.43	19.84	20.16	23.31	24.10	28.03	31.97	35.91	39.84	43.78	48.66	53.23	59.53	75.28		
1.00	80	8.020	80	8.020	11.50	12.60	15.75	17.17	18.58	18.90	22.05	22.84	26.77	30.71	34.65	38.58	42.52	47.40	51.97	58.27	74.02		
1.05	38	3.810	40	4.010	17.95	19.05	22.20	23.62	25.04	25.35	28.50	29.29	33.23	37.16	41.10	45.04	48.98	53.86	58.42	64.72	80.47		
1.06	36	3.609	38	3.810	18.27	19.37	22.52	23.94	25.35	25.67	28.82	29.61	33.54	37.48	41.42	45.35	49.29	54.17	58.74	65.04	80.79		
1.06	34	3.409	36	3.609	18.58	19.68	22.83	24.25	25.67	25.98	29.13	29.92	33.86	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10		
1.06	32	3.208	34	3.409	18.90	20.00	23.15	24.57	25.98	26.30	29.45	30.24	34.17	38.11	42.05	45.98	49.92	54.80	59.37	65.67	81.42		
1.07	30	3.008	32	3.208	19.21	20.31	23.46	24.88	26.30	26.61	29.76	30.55	34.49	38.42	42.36	46.30	50.24	55.12	59.68	65.98	81.73		
1.07	28	2.807	30	3.008	19.53	20.63	23.78	25.20	26.61	26.93	30.08	30.87	34.80	38.74	42.68	46.61	50.55	55.43	60.00	66.30	82.05		
1.08	26	2.607	28	2.807	19.84	20.94	24.09	25.51	26.93	27.24	30.39	31.18	35.12	39.05	42.99	46.93	50.87	55.75	60.31	66.61	82.36		
1.08	24	2.406	26	2.607	20.16	21.26	24.41	25.83	27.24	27.56	30.71	31.50	35.43	39.37	43.31	47.24	51.18	56.06	60.63	66.93	82.68		
1.09	22	2.206	24	2.406	20.47	21.57	24.72	26.14	27.56	27.87	31.02	31.81	35.75	39.68	43.62	47.56	51.50	56.38	60.94	67.24	82.99		
1.09	44	4.411	48	4.812	16.85	17.95	21.10	22.52	23.94	24.25	27.40	28.19	32.13	36.06	40.00	43.94	47.88	52.76	57.32	63.62	79.37		
1.10	40	4.010	44	4.411	17.48	18.58	21.73	23.15	24.57	24.88	28.03	28.82	32.76	36.69	40.63	44.57	48.51	53.39	57.95	64.25	80.00		
1.11	36	3.609	40	4.010	18.11	19.21	22.36	23.78	25.20	25.51	28.66	29.45	33.39	37.32	41.26	45.20	49.14	54.02	58.58	64.88	80.63		
1.11	72	7.218	80	8.020	12.12	13.22	16.37	17.79	19.21	19.52	22.67	23.46	27.40	31.33	35.27	39.21	43.15	48.03	52.60	58.90	74.65		
1.12	34	3.409	38	3.810	18.42	19.52	22.67	24.09	25.51	25.82	28.97	29.76	33.70	37.63	41.57	45.51	49.45	54.33	58.89	65.19	80.94		
1.13	32	3.208	36	3.609	18.74	19.84	22.99	24.41	25.83	26.14	29.29	30.08	34.02	37.95	41.89	45.83	49.77	54.65	59.21	65.51	81.26		
1.13	64	6.416	72	7.218	13.38	14.48	17.63	19.05	20.47	20.78	23.93	24.72	28.66	32.59	36.53	40.47	44.41	49.29	53.86	60.16	75.91		
1.13	80	8.020	90	9.023	10.70	11.80	14.95	16.37	17.79	18.10	21.25	22.04	25.98	29.92	33.86	37.79	41.73	46.61	51.18	57.48	73.23		
1.13	30	3.008	34	3.409	19.05	20.15	23.30	24.72	26.14	26.45	29.60	30.39	34.33	38.26	42.20	46.14	50.08	54.96	59.52	65.82	81.57		
1.14	28	2.807	32	3.208	19.37	20.47	23.62	25.04	26.46	26.77	29.92	30.71	34.65	38.58	42.52	46.46	50.40	55.28	59.84	66.14	81.89		
1.14	56	5.614	64	6.416	14.64	15.74	18.89	20.31	21.73	22.04	25.19	25.98	29.92	33.85	37.79	41.73	45.67	50.55	55.12	61.42	77.17		
1.15	26	2.607	30	3.008	19.68	20.78	23.93	25.35	26.77	27.08	30.23	31.02	34.96	38.89	42.83	46.77	50.71	55.59	60.15	66.45	82.20		
1.16	38	3.810	44	4.411	17.64	18.74	21.89	23.31	24.72	25.04	28.19	28.98	32.91	36.85	40.79	44.72	48.66	53.54	58.11	64.41	80.16		
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																
	Driver		Driven		384-8M	480-8M	560-8M	600-8M	640-8M	720-8M	800-8M	840-8M	880-8M	920-8M	960-8M	1040-8M	1064-8M	1120-8M	1160-8M	1200-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches																	
Length Factor*					0.70	0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.17	24	2.406	28	2.807	3.46	5.35	6.93	7.71	8.50	10.08	11.65	12.44	13.23	14.01	14.80	16.37	16.85	17.95	18.74	19.52	
1.17	48	4.812	56	5.614	...	...	...	...	...	5.97	7.55	8.34	9.13	9.91	10.70	12.27	12.75	13.85	14.64	15.43
1.18	34	3.409	40	4.010	...	...	5.19	5.98	6.77	8.34	9.92	10.70	11.49	12.28	13.07	14.64	15.12	16.22	17.01	17.79
1.18	22	2.206	26	2.607	3.77	5.67	7.24	8.03	8.82	10.39	11.97	12.75	13.54	14.33	15.12	16.69	17.16	18.26	19.05	19.84	
1.19	32	3.208	38	3.810	...	...	5.50	6.29	7.08	8.66	10.23	11.02	11.81	12.59	13.38	14.96	15.43	16.53	17.32	18.11
1.20	30	3.008	36	3.609	...	4.24	5.82	6.61	7.40	8.97	10.55	11.33	12.12	12.91	13.70	15.27	15.75	16.85	17.64	18.42	
1.20	40	4.010	48	4.812	6.66	7.24	8.81	9.60	10.39	11.17	11.96	13.54	14.01	15.11	15.90	16.69
1.21	28	2.807	34	3.409	...	4.56	6.14	6.92	7.71	9.29	10.86	11.65	12.44	13.22	14.01	15.59	16.06	17.16	17.95	18.74	
1.22	36	3.609	44	4.411	...	...	4.71	5.50	6.29	7.87	9.44	10.23	11.02	11.80	12.59	14.17	14.64	15.74	16.53	17.32
1.23	26	2.607	32	3.208	...	4.87	6.45	7.24	8.03	9.60	11.18	11.96	12.75	13.54	14.33	15.90	16.38	17.48	18.27	19.05	
1.25	24	2.406	30	3.008	3.29	5.19	6.77	7.55	8.34	9.92	11.49	12.28	13.07	13.85	14.64	16.22	16.69	17.79	18.58	19.37	
1.25	32	3.208	40	4.010	...	...	5.34	6.13	6.92	8.50	10.07	10.86	11.65	12.43	13.22	14.80	15.27	16.37	17.16	17.95
1.25	64	6.416	80	8.020	9.10	9.57	10.68	11.47	12.26
1.25	72	7.218	90	9.023	9.25	10.04	10.83
1.26	38	3.810	48	4.812	...	...	...	5.01	5.81	7.39	8.96	9.75	10.54	11.33	12.12	13.69	14.16	15.27	16.06	16.84
1.27	30	3.008	38	3.810	...	4.08	5.66	6.44	7.23	8.81	10.39	11.17	11.96	12.75	13.54	15.11	15.58	16.69	17.48	18.26	
1.27	22	2.206	28	2.807	3.61	5.50	7.08	7.87	8.66	10.23	11.81	12.59	13.38	14.17	14.96	16.53	17.01	18.11	18.90	19.68	
1.27	44	4.411	56	5.614	...	...	...	...	...	6.27	7.85	8.64	9.43	10.22	11.01	12.58	13.06	14.16	14.95	15.73
1.29	28	2.807	36	3.609	...	4.39	5.97	6.76	7.55	9.13	10.70	11.49	12.28	13.06	13.86	15.43	15.90	17.00	17.79	18.58	
1.29	56	5.614	72	7.218	...	...	...	...	...	...	...	...	7.20	7.99	8.79	10.36	10.84	11.94	12.73	13.52
1.29	34	3.409	44	4.411	...	...	4.86	5.65	6.44	8.02	9.60	10.38	11.17	11.96	12.75	14.32	14.79	15.90	16.69	17.47
1.31	26	2.607	34	3.409	...	4.71	6.29	7.07	7.86	9.44	11.02	11.80	12.59	13.38	14.17	15.74	16.22	17.32	18.11	18.89	
1.33	24	2.406	32	3.208	...	5.02	6.60	7.39	8.18	9.76	11.33	12.12	12.91	13.69	14.49	16.06	16.53	17.63	18.42	19.21	
1.33	30	3.008	40	4.010	...	...	5.49	6.28	7.07	8.65	10.23	11.01	11.80	12.59	13.38	14.95	15.42	16.53	17.32	18.10
1.33	36	3.609	48	4.812	...	...	...	5.16	5.96	7.54	9.12	9.90	10.69	11.48	12.27	13.84	14.32	15.42	16.21	17.00
1.33	48	4.812	64	6.416	...	...	...	...	...	...	6.88	7.67	8.47	9.26	10.05	11.62	12.10	13.20	13.99	14.78
1.36	28	2.807	38	3.810	...	4.22	5.81	6.59	7.39	8.96	10.54	11.33	12.12	12.90	13.69	15.26	15.74	16.84	17.63	18.42	
1.36	22	2.206	30	3.008	3.44	5.34	6.92	7.70	8.50	10.07	11.65	12.43	13.22	14.01	14.80	16.37	16.85	17.95	18.74	19.52	
1.38	32	3.208	44	4.411	...	...	5.00	5.79	6.59	8.17	9.75	10.53	11.33	12.11	12.90	14.47	14.95	16.05	16.84	17.63
1.39	26	2.607	36	3.609	...	4.54	6.12	6.91	7.70	9.28	10.86	11.64	12.43	13.22	14.01	15.58	16.06	17.16	17.95	18.73	
1.40	40	4.010	56	5.614	...	...	...	...	...	6.57	8.15	8.94	9.73	10.52	11.31	12.89	13.36	14.46	15.26	16.04
1.40	80	8.020	112	11.229
1.41	64	6.416	90	9.023	8.24	8.72	9.83	10.63	11.42
1.41	34	3.409	48	4.812	...	...	...	5.31	6.10	7.69	9.27	10.05	10.85	11.63	12.42	14.00	14.47	15.57	16.36	17.15
1.42	24	2.406	34	3.409	...	4.86	6.44	7.23	8.02	9.59	11.17	11.96	12.75	13.53	14.32	15.89	16.37	17.47	18.26	19.05	
1.43	28	2.807	40	4.010	...	4.05	5.64	6.43	7.22	8.80	10.38	11.16	11.96	12.74	13.53	15.10	15.58	16.68	17.47	18.26	
1.43	56	5.614	80	8.020	8.10	9.69	10.17	11.27	12.07	12.86
1.46	22	2.206	32	3.208	3.27	5.17	6.75	7.54	8.33	9.91	11.49	12.27	13.06	13.85	14.64	16.21	16.69	17.79	18.58	19.36	
Length Factor*					0.70	0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																	
	Driver		Driven		1224-8M	1280-8M	1440-8M	1512-8M	1584-8M	1600-8M	1760-8M	1800-8M	2000-8M	2200-8M	2400-8M	2600-8M	2800-8M	3048-8M	3280-8M	3600-8M	4400-8M	
	No. of teeth	Pitch Diam. Inches	No. of teeth	Pitch Diam. Inches																		
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1.17	24	2.406	28	2.807	20.00	21.10	24.25	25.67	27.08	27.40	30.55	31.34	35.28	39.21	43.15	47.09	51.03	55.91	60.47	66.77	82.52	
1.17	48	4.812	56	5.614	15.90	17.00	20.15	21.57	22.99	23.30	26.45	27.24	31.18	35.11	39.05	42.99	46.93	51.81	56.38	62.68	78.43	
1.18	34	3.409	40	4.010	18.27	19.37	22.52	23.94	25.35	25.67	28.82	29.61	33.54	37.48	41.42	45.35	49.29	54.17	58.74	65.04	80.79	
1.18	22	2.206	26	2.607	20.31	21.41	24.56	25.98	27.40	27.71	30.86	31.65	35.59	39.52	43.46	47.40	51.34	56.22	60.78	67.08	82.83	
1.19	32	3.208	38	3.810	18.58	19.68	22.83	24.25	25.67	25.98	29.13	29.92	33.86	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10	
1.20	30	3.008	36	3.609	18.90	20.00	23.15	24.57	25.98	26.30	29.45	30.24	34.17	38.11	42.05	45.98	49.92	54.80	59.37	65.67	81.42	
1.20	40	4.010	48	4.812	17.16	18.26	21.41	22.83	24.25	24.56	27.71	28.50	32.44	36.37	40.31	44.25	48.19	53.07	57.63	63.93	79.69	
1.21	28	2.807	34	3.409	19.21	20.31	23.46	24.88	26.30	26.61	29.76	30.55	34.49	38.42	42.36	46.30	50.24	55.12	59.68	65.98	81.73	
1.22	36	3.609	44	4.411	17.79	18.89	22.04	23.46	24.88	25.19	28.34	29.13	33.07	37.00	40.94	44.88	48.82	53.70	58.26	64.56	80.32	
1.23	26	2.607	32	3.208	19.53	20.63	23.78	25.20	26.61	26.93	30.08	30.87	34.80	38.74	42.68	46.61	50.55	55.43	60.00	66.30	82.05	
1.25	24	2.406	30	3.008	19.84	20.94	24.09	25.51	26.93	27.24	30.39	31.18	35.12	39.05	42.99	46.93	50.87	55.75	60.31	66.61	82.36	
1.25	32	3.208	40	4.010	18.42	19.52	22.67	24.09	25.51	25.82	28.97	29.76	33.70	37.63	41.57	45.51	49.45	54.33	58.89	65.19	80.95	
1.25	64	6.416	80	8.020	12.73	13.83	16.99	18.41	19.83	20.14	23.29	24.08	28.02	31.96	35.90	39.83	43.77	48.66	53.22	59.52	75.27	
1.25	72	7.218	90	9.023	11.30	12.41	15.56	16.99	18.40	18.72	21.87	22.66	26.60	30.54	34.48	38.41	42.35	47.24	51.80	58.10	73.85	
1.26	38	3.810	48	4.812	17.32	18.42	21.57	22.99	24.40	24.72	27.87	28.66	32.59	36.53	40.47	44.41	48.35	53.23	57.79	64.09	79.84	
1.27	30	3.008	38	3.810	18.74	19.84	22.99	24.41	25.82	26.14	29.29	30.08	34.01	37.95	41.89	45.82	49.76	54.64	59.21	65.51	81.26	
1.27	22	2.206	28	2.807	20.16	21.26	24.41	25.83	27.24	27.56	30.71	31.50	35.43	39.37	43.31	47.24	51.18	56.06	60.63	66.93	82.68	
1.27	44	4.411	56	5.614	16.21	17.31	20.46	21.88	23.30	23.61	26.76	27.55	31.49	35.43	39.37	43.30	47.24	52.12	56.69	62.99	78.74	
1.29	28	2.807	36	3.609	19.05	20.15	23.30	24.72	26.14	26.45	29.60	30.39	34.33	38.26	42.20	46.14	50.08	54.96	59.52	65.82	81.57	
1.29	56	5.614	72	7.218	13.99	15.10	18.25	19.67	21.09	21.40	24.55	25.34	29.28	33.22	37.16	41.09	45.03	49.92	54.48	60.78	76.53	
1.29	34	3.409	44	4.411	17.95	19.05	22.20	23.62	25.03	25.35	28.50	29.29	33.22	37.16	41.10	45.04	48.98	53.86	58.42	64.72	80.47	
1.31	26	2.607	34	3.409	19.37	20.47	23.62	25.04	26.45	26.77	29.92	30.71	34.64	38.58	42.52	46.45	50.39	55.27	59.84	66.14	81.89	
1.33	24	2.406	32	3.208	19.68	20.78	23.93	25.35	26.77	27.08	30.23	31.02	34.96	38.89	42.83	46.77	50.71	55.59	60.15	66.45	82.20	
1.33	30	3.008	40	4.010	18.58	19.68	22.83	24.25	25.66	25.98	29.13	29.92	33.85	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10	
1.33	36	3.609	48	4.812	17.47	18.57	21.72	23.14	24.56	24.87	28.02	28.81	32.75	36.69	40.63	44.56	48.50	53.38	57.95	64.25	80.00	
1.33	48	4.812	64	6.416	15.26	16.36	19.51	20.93	22.35	22.66	25.81	26.60	30.54	34.48	38.42	42.35	46.29	51.18	55.74	62.04	77.79	
1.36	28	2.807	38	3.810	18.89	19.99	23.14	24.56	25.98	26.29	29.44	30.23	34.17	38.10	42.05	45.98	49.92	54.80	59.37	65.67	81.42	
1.36	22	2.206	30	3.008	20.00	21.10	24.25	25.67	27.08	27.40	30.55	31.34	35.27	39.21	43.15	47.08	51.02	55.90	60.47	66.77	82.52	
1.38	32	3.208	44	4.411	18.10	19.20	22.35	23.77	25.19	25.50	28.65	29.44	33.38	37.32	41.26	45.19	49.13	54.01	58.58	64.88	80.63	
1.39	26	2.607	36	3.609	19.21	20.31	23.46	24.88	26.29	26.61	29.76	30.55	34.48	38.42	42.36	46.30	50.24	55.12	59.68	65.98	81.73	
1.40	40	4.010	56	5.614	16.52	17.62	20.77	22.19	23.61	23.92	27.07	27.86	31.80	35.74	39.68	43.61	47.55	52.44	57.00	63.30	79.05	
1.40	80	8.020	112	11.229	...	9.95	13.13	14.56	15.98	16.30	19.46	20.25	24.20	28.14	32.09	36.03	39.97	44.85	49.42	55.72	71.48	
1.41	64	6.416	90	9.023	11.90	13.00	16.17	17.59	19.01	19.33	22.48	23.27	27.21	31.15	35.10	39.03	42.97	47.86	52.42	58.72	74.48	
1.41	34	3.409	48	4.812	17.62	18.73	21.88	23.30	24.71	25.03	28.18	28.97	32.91	36.84	40.78	44.72	48.66	53.54	58.10	64.40	80.16	
1.42	24	2.406	34	3.409	19.52	20.62	23.77	25.19	26.61	26.92	30.07	30.86	34.80	38.73	42.67	46.61	50.55	55.43	60.00	66.30	82.05	
1.43	28	2.807	40	4.010	18.73	19.83	22.98	24.40	25.82	26.13	29.28	30.07	34.01	37.95	41.89	45.82	49.76	54.64	59.21	65.51	81.26	
1.43	56	5.614	80	8.020	13.33	14.44	17.60	19.02	20.44	20.75	23.91	24.70	28.64	32.57	36.52	40.45	44.40	49.28	53.84	60.14	75.90	
1.46	22	2.206	32	3.208	19.84	20.94	24.09	25.51	26.92	27.24	30.39	31.18	35.11	39.05	42.99	46.93	50.87	55.75	60.31	66.61	82.36	
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches															
	Driver		Driven		480-8M	560-8M	600-8M	640-8M	720-8M	800-8M	840-8M	880-8M	920-8M	960-8M	1040-8M	1064-8M	1120-8M	1160-8M	1200-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches																
Length Factor*					0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.46	44	4.411	64	6.416	...	...	...	...	...	7.18	7.97	8.76	9.55	10.35	11.92	12.40	13.50	14.30	15.08
1.46	26	2.607	38	3.810	4.37	5.95	6.74	7.54	9.12	10.69	11.48	12.27	13.06	13.85	15.42	15.89	16.99	17.78	18.57	
1.47	30	3.008	44	4.411	...	5.15	5.94	6.74	8.32	9.90	10.69	11.48	12.26	13.05	14.63	15.10	16.20	16.99	17.78	
1.47	38	3.810	56	5.614	...	...	...	...	6.71	8.30	9.09	9.88	10.67	11.46	13.04	13.51	14.62	15.41	16.19
1.50	24	2.406	36	3.609	4.69	6.27	7.06	7.85	9.43	11.01	11.80	12.59	13.37	14.16	15.73	16.21	17.31	18.10	18.89	
1.50	32	3.208	48	4.812	...	4.66	5.45	6.25	7.84	9.42	10.20	11.00	11.78	12.58	14.15	14.62	15.73	16.52	17.30	
1.50	48	4.812	72	7.218	...	...	...	...	...	...	6.98	7.78	8.58	9.37	10.96	11.43	12.54	13.33	14.12
1.54	26	2.607	40	4.010	4.19	5.79	6.58	7.37	8.95	10.53	11.32	12.11	12.89	13.69	15.26	15.73	16.83	17.62	18.41	
1.55	22	2.206	34	3.409	5.00	6.59	7.38	8.17	9.75	11.32	12.11	12.90	13.69	14.48	16.05	16.52	17.62	18.42	19.20	
1.56	36	3.609	56	5.614	...	...	...	5.26	6.86	8.45	9.24	10.03	10.82	11.61	13.19	13.66	14.77	15.56	16.35
1.56	72	7.218	112	11.229	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1.57	28	2.807	44	4.411	...	5.30	6.09	6.88	8.47	10.05	10.84	11.63	12.42	13.21	14.78	15.25	16.36	17.15	17.93	
1.58	24	2.406	38	3.810	4.51	6.10	6.89	7.69	9.27	10.85	11.63	12.42	13.21	14.00	15.57	16.05	17.15	17.94	18.72	
1.60	30	3.008	48	4.812	...	4.80	5.60	6.39	7.98	9.57	10.35	11.15	11.93	12.73	14.30	14.78	15.88	16.67	17.45	
1.60	40	4.010	64	6.416	...	...	...	...	5.86	7.46	8.26	9.06	9.85	10.64	12.22	12.70	13.80	14.60	15.38
1.61	56	5.614	90	9.023	...	...	...	...	...	...	...	...	...	...	8.81	9.29	10.41	11.21	12.00
1.64	22	2.206	36	3.609	4.83	6.42	7.21	8.00	9.58	11.16	11.95	12.74	13.52	14.32	15.89	16.36	17.46	18.25	19.04	
1.64	44	4.411	72	7.218	...	...	...	...	...	6.46	7.27	8.07	8.87	9.66	11.25	11.73	12.83	13.63	14.42
1.65	34	3.409	56	5.614	...	...	...	5.40	7.00	8.59	9.38	10.18	10.97	11.76	13.34	13.81	14.92	15.71	16.50
1.67	24	2.406	40	4.010	4.34	5.93	6.72	7.52	9.10	10.68	11.47	12.26	13.05	13.84	15.41	15.89	16.99	17.78	18.56	
1.67	48	4.812	80	8.020	...	...	...	...	...	...	...	7.06	7.87	8.67	10.27	10.75	11.86	12.65	13.45
1.68	38	3.810	64	6.416	...	...	...	...	6.00	7.61	8.40	9.20	9.99	10.79	12.37	12.85	13.95	14.75	15.53
1.69	26	2.607	44	4.411	...	5.44	6.23	7.03	8.62	10.20	10.99	11.78	12.57	13.36	14.93	15.41	16.51	17.30	18.09	
1.71	28	2.807	48	4.812	...	4.94	5.74	6.54	8.13	9.71	10.50	11.30	12.08	12.88	14.45	14.93	16.03	16.82	17.61	
1.73	22	2.206	38	3.810	4.66	6.25	7.04	7.83	9.42	11.00	11.78	12.57	13.36	14.15	15.72	16.20	17.30	18.09	18.88	
1.75	32	3.208	56	5.614	...	...	...	5.54	7.14	8.74	9.53	10.33	11.12	11.91	13.49	13.96	15.07	15.86	16.65
1.75	64	6.416	112	11.229	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9.45
1.78	36	3.609	64	6.416	...	...	...	...	6.14	7.75	8.55	9.35	10.14	10.94	12.52	13.00	14.10	14.90	15.68
1.80	40	4.010	72	7.218	...	...	...	...	...	6.74	7.55	8.35	9.15	9.95	11.54	12.02	13.13	13.92	14.71
1.80	80	8.020	144	14.437	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1.82	22	2.206	40	4.010	4.48	6.08	6.87	7.66	9.25	10.83	11.62	12.41	13.20	13.99	15.56	16.04	17.14	17.93	18.72	
1.82	44	4.411	80	8.020	...	...	...	...	...	...	...	7.34	8.15	8.95	10.55	11.03	12.15	12.95	13.74
1.83	24	2.406	44	4.411	3.97	5.58	6.38	7.18	8.76	10.35	11.14	11.93	12.72	13.51	15.08	15.56	16.66	17.45	18.24	
1.85	26	2.607	48	4.812	...	5.08	5.88	6.68	8.27	9.86	10.65	11.44	12.23	13.03	14.60	15.08	16.18	16.97	17.76	
1.87	30	3.008	56	5.614	...	...	4.86	5.68	7.29	8.88	9.68	10.47	11.26	12.06	13.64	14.11	15.22	16.01	16.80
1.88	48	4.812	90	9.023	...	...	...	...	...	...	...	...	...	7.75	9.37	9.85	10.98	11.78	12.58
1.88	34	3.409	64	6.416	...	...	...	...	6.28	7.89	8.69	9.49	10.28	11.08	12.66	13.14	14.25	15.04	15.83
1.90	38	3.810	72	7.218	...	...	...	...	...	6.88	7.68	8.49	9.29	10.09	11.68	12.16	13.27	14.07	14.86
Length Factor*					0.80	0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																	
	Driver		Driven		1224-8M	1280-8M	1440-8M	1512-8M	1584-8M	1600-8M	1760-8M	1800-8M	2000-8M	2200-8M	2400-8M	2600-8M	2800-8M	3048-8M	3280-8M	3600-8M	4400-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Diam. Inches																		
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1.46	44	4.411	64	6.416	15.56	16.66	19.82	21.24	22.65	22.97	26.12	26.91	30.85	34.79	38.73	42.66	46.61	51.49	56.05	62.35	78.11	
1.46	26	2.607	38	3.810	19.05	20.15	23.30	24.72	26.13	26.45	29.60	30.39	34.32	38.26	42.20	46.14	50.08	54.96	59.52	65.82	81.57	
1.47	30	3.008	44	4.411	18.25	19.36	22.51	23.93	25.34	25.66	28.81	29.60	33.54	37.47	41.41	45.35	49.29	54.17	58.73	65.03	80.79	
1.47	38	3.810	56	5.614	16.67	17.77	20.92	22.35	23.76	24.08	27.23	28.02	31.96	35.89	39.83	43.77	47.71	52.59	57.16	63.46	79.21	
1.50	24	2.406	36	3.609	19.36	20.46	23.61	25.03	26.45	26.76	29.91	30.70	34.64	38.58	42.52	46.45	50.39	55.27	59.84	66.14	81.89	
1.50	32	3.208	48	4.812	17.78	18.88	22.03	23.45	24.87	25.18	28.33	29.13	33.06	37.00	40.94	44.87	48.81	53.70	58.26	64.56	80.31	
1.50	48	4.812	72	7.218	14.60	15.70	18.86	20.28	21.70	22.01	25.17	25.96	29.90	33.84	37.78	41.71	45.66	50.54	55.10	61.40	77.16	
1.54	26	2.607	40	4.010	18.88	19.99	23.14	24.56	25.97	26.29	29.44	30.23	34.17	38.10	42.04	45.98	49.92	54.80	59.36	65.66	81.41	
1.55	22	2.206	34	3.409	19.68	20.78	23.93	25.35	26.76	27.08	30.23	31.02	34.95	38.89	42.83	46.77	50.71	55.59	60.15	66.45	82.20	
1.56	36	3.609	56	5.614	16.82	17.92	21.08	22.50	23.92	24.23	27.38	28.17	32.11	36.05	39.99	43.92	47.87	52.75	57.31	63.61	79.36	
1.56	72	7.218	112	11.229	...	10.51	13.71	15.14	16.57	16.89	20.06	20.85	24.80	28.75	32.70	36.64	40.58	45.47	50.04	56.34	72.10	
1.57	28	2.807	44	4.411	18.41	19.51	22.66	24.08	25.50	25.81	28.96	29.76	33.69	37.63	41.57	45.50	49.44	54.33	58.89	65.19	80.94	
1.58	24	2.406	38	3.810	19.20	20.30	23.45	24.87	26.29	26.60	29.75	30.54	34.48	38.42	42.36	46.29	50.23	55.11	59.68	65.98	81.73	
1.60	30	3.008	48	4.812	17.93	19.03	22.18	23.61	25.02	25.34	28.49	29.28	33.22	37.15	41.09	45.03	48.97	53.85	58.42	64.72	80.47	
1.60	40	4.010	64	6.416	15.86	16.96	20.12	21.54	22.96	23.28	26.43	27.22	31.16	35.10	39.04	42.97	46.92	51.80	56.36	62.66	78.42	
1.61	56	5.614	90	9.023	12.48	13.59	16.76	18.19	19.61	19.93	23.09	23.88	27.82	31.76	35.71	39.65	43.59	48.47	53.04	59.34	75.10	
1.64	22	2.206	36	3.609	19.52	20.62	23.77	25.19	26.60	26.92	30.07	30.86	34.80	38.73	42.67	46.61	50.55	55.43	59.99	66.29	82.04	
1.64	44	4.411	72	7.218	14.90	16.00	19.16	20.58	22.00	22.32	25.47	26.26	30.20	34.14	38.09	42.02	45.97	50.85	55.41	61.72	77.47	
1.65	34	3.409	56	5.614	16.97	18.07	21.23	22.65	24.07	24.38	27.54	28.33	32.26	36.20	40.14	44.08	48.02	52.90	57.47	63.77	79.52	
1.67	24	2.406	40	4.010	19.04	20.14	23.29	24.71	26.13	26.44	29.60	30.39	34.32	38.26	42.20	46.13	50.07	54.96	59.52	65.82	81.57	
1.67	48	4.812	80	8.020	13.92	15.03	18.20	19.62	21.04	21.36	24.51	25.31	29.25	33.19	37.13	41.07	45.01	49.90	54.46	60.77	76.52	
1.68	38	3.810	64	6.416	16.01	17.11	20.27	21.69	23.11	23.43	26.58	27.37	31.31	35.25	39.19	43.13	47.07	51.95	56.52	62.82	78.57	
1.69	26	2.607	44	4.411	18.56	19.66	22.82	24.24	25.65	25.97	29.12	29.91	33.85	37.78	41.72	45.66	49.60	54.48	59.05	65.35	81.10	
1.71	28	2.807	48	4.812	18.08	19.18	22.34	23.76	25.18	25.49	28.64	29.43	33.37	37.31	41.25	45.18	49.13	54.01	58.57	64.87	80.62	
1.73	22	2.206	38	3.810	19.35	20.45	23.61	25.03	26.44	26.76	29.91	30.70	34.64	38.57	42.51	46.45	50.39	55.27	59.83	66.14	81.89	
1.75	32	3.208	56	5.614	17.12	18.23	21.38	22.80	24.22	24.54	27.69	28.48	32.42	36.36	40.30	44.23	48.18	53.06	57.62	63.92	79.68	
1.75	64	6.416	112	11.229	9.94	11.07	14.28	15.72	17.15	17.47	20.65	21.44	25.40	29.35	33.30	37.24	41.19	46.08	50.65	56.96	72.72	
1.78	36	3.609	64	6.416	16.16	17.26	20.42	21.85	23.26	23.58	26.73	27.53	31.47	35.40	39.35	43.28	47.23	52.11	56.67	62.98	78.73	
1.80	40	4.010	72	7.218	15.19	16.30	19.46	20.88	22.30	22.62	25.78	26.57	30.51	34.45	38.39	42.33	46.27	51.16	55.72	62.03	77.78	
1.80	80	8.020	144	14.437	...	...	...	11.68	13.15	13.47	16.70	17.50	21.49	25.46	29.43	33.39	37.34	42.24	46.82	53.13	68.90
1.82	22	2.206	40	4.010	19.19	20.29	23.45	24.87	26.28	26.60	29.75	30.54	34.48	38.41	42.35	46.29	50.23	55.11	59.68	65.98	81.73	
1.82	44	4.411	80	8.020	14.22	15.33	18.49	19.92	21.34	21.66	24.82	25.61	29.55	33.49	37.44	41.38	45.32	50.20	54.77	61.08	76.83	
1.83	24	2.406	44	4.411	18.71	19.82	22.97	24.39	25.81	26.12	29.27	30.06	34.00	37.94	41.88	45.81	49.76	54.64	59.20	65.50	81.25	
1.85	26	2.607	48	4.812	18.23	19.34	22.49	23.91	25.33	25.64	28.80	29.59	33.53	37.46	41.40	45.34	49.28	54.16	58.73	65.03	80.78	
1.87	30	3.008	56	5.614	17.27	18.38	21.53	22.96	24.37	24.69	27.84	28.63	32.57	36.51	40.45	44.39	48.33	53.21	57.78	64.08	79.83	
1.88	48	4.812	90	9.023	13.06	14.17	17.35	18.78	20.20	20.52	23.69	24.48	28.43	32.37	36.32	40.26	44.20	49.09	53.66	59.96	75.72	
1.88	34	3.409	64	6.416	16.31	17.41	20.57	22.00	23.42	23.73	26.89	27.68	31.62	35.56	39.50	43.44	47.38	52.26	56.83	63.13	78.88	
1.90	38	3.810	72	7.218	15.34	16.45	19.61	21.03	22.45	22.77	25.93	26.72	30.66	34.60	38.55	42.48	46.43	51.31	55.88	62.18	77.94	
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.



SELECTION



8MM Pitch HT200 Belt Drive Selection Table

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Speed Ratio	Sprocket Combinations				Center Distance, Inches														
	Driver		Driven		560-8M	600-8M	640-8M	720-8M	800-8M	840-8M	880-8M	920-8M	960-8M	1040-8M	1064-8M	1120-8M	1160-8M	1200-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches															
Length Factor*					0.80	0.80	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2.00	22	2.206	44	4.411	5.72	6.52	7.32	8.91	10.50	11.28	12.08	12.87	13.66	15.23	15.71	16.81	17.60	18.39	
2.00	24	2.406	48	4.812	5.22	6.02	6.82	8.42	10.01	10.80	11.59	12.38	13.18	14.75	15.23	16.33	17.12	17.91	
2.00	28	2.807	56	5.614	...	5.00	5.82	7.43	9.03	9.82	10.62	11.41	12.21	13.78	14.26	15.37	16.16	16.95	
2.00	32	3.208	64	6.416	...	...	...	6.41	8.03	8.83	9.63	10.43	11.23	12.81	13.29	14.40	15.19	15.98
2.00	36	3.609	72	7.218	...	...	...	...	7.01	7.82	8.63	9.43	10.24	11.83	12.31	13.42	14.22	15.01
2.00	40	4.010	80	8.020	...	...	...	...	...	6.79	7.61	8.42	9.23	10.84	11.32	12.43	13.23	14.03
2.00	56	5.614	112	11.229	...	...	...	...	...	...	...	...	...	...	...	...	9.17	9.99
2.00	72	7.218	144	14.437	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2.05	44	4.411	90	9.023	...	...	...	...	...	...	...	7.19	8.01	9.64	10.13	11.26	12.06	12.86
2.11	38	3.810	80	8.020	...	...	...	...	...	6.92	7.75	8.56	9.37	10.98	11.46	12.58	13.38	14.17
2.12	34	3.409	72	7.218	...	...	...	...	7.15	7.96	8.77	9.57	10.38	11.97	12.45	13.56	14.36	15.15
2.13	30	3.008	64	6.416	...	...	...	6.55	8.17	8.97	9.77	10.57	11.37	12.96	13.44	14.54	15.34	16.13
2.15	26	2.607	56	5.614	...	5.13	5.95	7.57	9.17	9.96	10.76	11.56	12.35	13.93	14.41	15.52	16.31	17.10	
2.18	22	2.206	48	4.812	5.35	6.16	6.97	8.56	10.15	10.95	11.74	12.53	13.32	14.90	15.38	16.48	17.27	18.06	
2.22	36	3.609	80	8.020	...	...	...	...	...	7.05	7.88	8.70	9.51	11.12	11.60	12.72	13.52	14.32
2.25	32	3.208	72	7.218	...	...	...	...	7.28	8.10	8.91	9.71	10.52	12.12	12.60	13.71	14.51	15.30
2.25	40	4.010	90	9.023	...	...	...	...	...	...	...	7.45	8.28	9.92	10.41	11.54	12.34	13.14
2.25	64	6.416	144	14.437	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2.29	28	2.807	64	6.416	...	...	...	6.69	8.31	9.11	9.92	10.71	11.51	13.10	13.58	14.69	15.49	16.28
2.33	24	2.406	56	5.614	5.26	6.09	6.91	7.71	9.31	10.11	10.91	11.70	12.50	14.08	14.56	15.66	16.46	17.25	
2.33	48	4.812	112	11.229	...	...	...	...	...	...	...	...	...	...	...	8.86	9.70	10.53
2.35	34	3.409	80	8.020	...	...	...	...	6.35	7.19	8.01	8.83	9.65	11.26	11.74	12.86	13.66	14.46
2.37	38	3.810	90	9.023	...	...	...	...	...	...	6.74	7.58	8.41	10.05	10.54	11.67	12.48	13.28
2.40	30	3.008	72	7.218	...	...	...	5.75	7.42	8.23	9.05	9.85	10.66	12.26	12.74	13.85	14.65	15.44
2.40	80	8.020	192	19.249	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2.46	26	2.607	64	6.416	...	...	5.16	6.82	8.45	9.25	10.06	10.86	11.66	13.25	13.73	14.84	15.63	16.42
2.50	32	3.208	80	8.020	...	...	...	...	6.48	7.32	8.15	8.97	9.78	11.40	11.88	13.00	13.81	14.60
2.50	36	3.609	90	9.023	...	...	...	...	...	...	6.86	7.71	8.55	10.19	10.68	11.81	12.62	13.43
2.55	22	2.206	56	5.614	4.56	5.40	6.22	7.85	9.45	10.25	11.05	11.85	12.64	14.23	14.70	15.81	16.61	17.39	
2.55	44	4.411	112	11.229	...	...	...	...	...	...	...	...	...	...	...	9.12	9.96	10.79
2.57	28	2.807	72	7.218	...	...	...	5.88	7.55	8.37	9.19	9.99	10.80	12.40	12.88	14.00	14.80	15.59
2.57	56	5.614	144	14.437	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2.65	34	3.409	90	9.023	...	...	...	...	...	...	6.99	7.84	8.68	10.32	10.81	11.95	12.76	13.56
2.67	24	2.406	64	6.416	...	...	5.29	6.96	8.59	9.39	10.20	11.00	11.80	13.39	13.87	14.98	15.78	16.57
2.67	30	3.008	80	8.020	...	...	...	...	6.61	7.45	8.28	9.10	9.92	11.54	12.02	13.14	13.95	14.75
2.67	72	7.218	192	19.249	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2.77	26	2.607	72	7.218	...	...	...	6.01	7.68	8.50	9.32	10.13	10.94	12.54	13.02	14.14	14.94	15.73
2.80	40	4.010	112	11.229	...	...	...	...	...	...	...	...	...	...	8.16	9.37	10.22	11.06
2.81	32	3.208	90	9.023	...	...	...	...	...	...	7.12	7.97	8.81	10.46	10.95	12.09	12.90	13.70
2.86	28	2.807	80	8.020	...	...	...	...	6.74	7.58	8.41	9.24	10.06	11.67	12.16	13.28	14.09	14.89
Length Factor*					0.80	0.80	0.90	0.90	0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																	
	Driver		Driven		1224-8M	1280-8M	1440-8M	1512-8M	1584-8M	1600-8M	1760-8M	1800-8M	2000-8M	2200-8M	2400-8M	2600-8M	2800-8M	3048-8M	3280-8M	3600-8M	4400-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Diam. Inches																		
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
2.00	22	2.206	44	4.411	18.87	19.97	23.12	24.54	25.96	26.27	29.43	30.22	34.16	38.09	42.03	45.97	49.91	54.79	59.36	65.66	81.41	
2.00	24	2.406	48	4.812	18.39	19.49	22.64	24.07	25.48	25.80	28.95	29.74	33.68	37.62	41.56	45.50	49.44	54.32	58.88	65.18	80.94	
2.00	28	2.807	56	5.614	17.42	18.53	21.69	23.11	24.53	24.84	28.00	28.79	32.73	36.66	40.61	44.54	48.49	53.37	57.93	64.24	79.99	
2.00	32	3.208	64	6.416	16.46	17.56	20.72	22.15	23.57	23.88	27.04	27.83	31.77	35.71	39.65	43.59	47.53	52.42	56.98	63.29	79.04	
2.00	36	3.609	72	7.218	15.49	16.59	19.76	21.18	22.60	22.92	26.08	26.87	30.81	34.75	38.70	42.64	46.58	51.46	56.03	62.34	78.09	
2.00	40	4.010	80	8.020	14.51	15.62	18.79	20.22	21.64	21.96	25.12	25.91	29.85	33.80	37.74	41.68	45.63	50.51	55.08	61.38	77.14	
2.00	56	5.614	112	11.229	10.49	11.63	14.85	16.29	17.73	18.05	21.23	22.03	25.99	29.94	33.90	37.85	41.80	46.69	51.26	57.57	73.33	
2.00	72	7.218	144	14.437	...	...	...	12.22	13.69	14.02	17.26	18.07	22.07	26.05	30.02	33.98	37.94	42.84	47.42	53.74	69.51
2.05	44	4.411	90	9.023	13.34	14.46	17.64	19.07	20.50	20.82	23.98	24.78	28.73	32.67	36.62	40.56	44.51	49.40	53.96	60.27	76.03	
2.11	38	3.810	80	8.020	14.65	15.76	18.94	20.36	21.79	22.10	25.27	26.06	30.00	33.95	37.90	41.84	45.78	50.67	55.23	61.54	77.30	
2.12	34	3.409	72	7.218	15.63	16.74	19.91	21.33	22.75	23.07	26.23	27.02	30.97	34.91	38.85	42.79	46.73	51.62	56.19	62.49	78.25	
2.13	30	3.008	64	6.416	16.61	17.71	20.87	22.30	23.72	24.03	27.19	27.98	31.92	35.86	39.81	43.75	47.69	52.57	57.14	63.44	79.20	
2.15	26	2.607	56	5.614	17.57	18.68	21.84	23.26	24.68	24.99	28.15	28.94	32.88	36.82	40.76	44.70	48.64	53.52	58.09	64.39	80.14	
2.18	22	2.206	48	4.812	18.54	19.64	22.80	24.22	25.63	25.95	29.10	29.89	33.83	37.77	41.71	45.65	49.59	54.47	59.04	65.34	81.09	
2.22	36	3.609	80	8.020	14.80	15.91	19.08	20.51	21.94	22.25	25.42	26.21	30.16	34.10	38.05	41.99	45.93	50.82	55.39	61.69	77.45	
2.25	32	3.208	72	7.218	15.78	16.89	20.06	21.48	22.90	23.22	26.38	27.17	31.12	35.06	39.00	42.94	46.89	51.77	56.34	62.64	78.40	
2.25	40	4.010	90	9.023	13.63	14.75	17.93	19.37	20.79	21.11	24.28	25.07	29.03	32.97	36.92	40.87	44.81	49.70	54.27	60.58	76.34	
2.25	64	6.416	144	14.437	...	...	11.24	12.75	14.23	14.56	17.81	18.62	22.64	26.62	30.60	34.57	38.53	43.44	48.02	54.34	70.12
2.29	28	2.807	64	6.416	16.55	17.86	21.02	22.45	23.87	24.18	27.34	28.13	32.08	36.02	39.96	43.90	47.84	52.73	57.29	63.60	79.35	
2.33	24	2.406	56	5.614	17.72	18.83	21.99	23.41	24.83	25.14	28.30	29.09	33.03	36.97	40.91	44.85	48.79	53.68	58.24	64.55	80.30	
2.33	48	4.812	112	11.229	11.03	12.17	15.41	16.86	18.30	18.62	21.81	22.61	26.58	30.54	34.50	38.45	42.40	47.29	51.87	58.18	73.95	
2.35	34	3.409	80	8.020	14.94	16.05	19.23	20.66	22.08	22.40	25.56	26.36	30.31	34.25	38.20	42.14	46.09	50.97	55.54	61.85	77.60	
2.37	38	3.810	90	9.023	13.77	14.89	18.08	19.51	20.94	21.26	24.43	25.22	29.17	33.12	37.07	41.02	44.97	49.85	54.42	60.73	76.49	
2.40	30	3.008	72	7.218	15.92	17.03	20.20	21.63	23.05	23.37	26.53	27.32	31.27	35.21	39.16	43.10	47.04	51.93	56.49	62.80	78.56	
2.40	80	8.020	192	19.249	...	...	...	...	...	...	...	...	17.04	21.16	25.21	29.24	33.24	38.18	42.79	49.14	64.97
2.46	26	2.607	64	6.416	16.90	18.01	21.17	22.60	24.02	24.33	27.49	28.28	32.23	36.17	40.11	44.05	48.00	52.88	57.45	63.75	79.51	
2.50	32	3.208	80	8.020	15.08	16.20	19.38	20.81	22.23	22.55	25.71	26.51	30.46	34.40	38.35	42.29	46.24	51.12	55.69	62.00	77.76	
2.50	36	3.609	90	9.023	13.91	15.03	18.22	19.66	21.08	21.40	24.57	25.37	29.32	33.27	37.23	41.17	45.12	50.01	54.58	60.88	76.65	
2.55	22	2.206	56	5.614	17.87	18.98	22.14	23.56	24.98	25.30	28.45	29.24	33.18	37.12	41.07	45.01	48.95	53.83	58.40	64.70	80.46	
2.55	44	4.411	112	11.229	11.29	12.44	15.69	17.14	18.58	18.90	22.10	22.90	26.87	30.83	34.79	38.75	42.70	47.59	52.17	58.48	74.25	
2.57	28	2.807	72	7.218	16.07	17.18	20.35	21.78	23.20	23.52	26.68	27.47	31.42	35.36	39.31	43.25	47.19	52.08	56.65	62.95	78.71	
2.57	56	5.614	144	14.437	...	...	11.76	13.28	14.77	15.10	18.36	19.18	23.20	27.20	31.18	35.15	39.12	44.03	48.62	54.94	70.73
2.65	34	3.409	90	9.023	14.05	15.17	18.37	19.80	21.23	21.55	24.72	25.52	29.47	33.42	37.38	41.32	45.27	50.16	54.73	61.04	76.80	
2.67	24	2.406	64	6.416	17.05	18.16	21.32	22.75	24.17	24.48	27.64	28.44	32.38	36.32	40.27	44.21	48.15	53.03	57.60	63.90	79.66	
2.67	30	3.008	80	8.020	15.23	16.34	19.52	20.95	22.38	22.70	25.86	26.66	30.61	34.55	38.50	42.44	46.39	51.28	55.85	62.15	77.91	
2.67	72	7.218	192	19.249	...	...	...	...	...	...	...	...	17.56	21.70	25.77	29.80	33.81	38.76	43.37	49.73	65.56
2.77	26	2.607	72	7.218	16.21	17.32	20.50	21.93	23.35	23.67	26.83	27.62	31.57	35.51	39.46	43.40	47.35	52.23	56.80	63.11	78.86	
2.80	40	4.010	112	11.229	11.56	12.71	15.97	17.42	18.86	19.19	22.38	23.18	27.16	31.13	35.09	39.04	43.00	47.90	52.47	58.79	74.56	
2.81	32	3.208	90	9.023	14.19	15.31	18.51	19.95	21.38	21.69	24.87	25.66	29.62	33.57	37.53	41.47	45.42	50.31	54.88	61.19	76.95	
2.86	28	2.807	80	8.020	15.37	16.49	19.67	21.10	22.53	22.84	26.01	26.80	30.76	34.70	38.65	42.60	46.54	51.43	56.00	62.31	78.07	
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		720-8M	800-8M	840-8M	880-8M	920-8M	960-8M	1040-8M	1064-8M	1120-8M	1160-8M	1200-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2.91	22	2.206	64	6.416	7.09	8.72	9.53	10.34	11.14	11.94	13.53	14.01	15.13	15.92	16.72	
2.95	38	3.810	112	11.229	...	...	...	...	...	...	...	8.29	9.50	10.35	11.19
3.00	24	2.406	72	7.218	6.14	7.82	8.64	9.46	10.27	11.08	12.68	13.17	14.28	15.08	15.88	
3.00	30	3.008	90	9.023	...	...	6.36	7.24	8.10	8.94	10.59	11.09	12.22	13.04	13.84
3.00	48	4.812	144	14.437	...	...	...	...	...	...	...	...	...	...	...
3.00	64	6.416	192	19.249	...	...	...	...	...	...	...	...	...	...	...
3.08	26	2.607	80	8.020	...	6.86	7.71	8.55	9.37	10.19	11.81	12.30	13.42	14.23	15.03	
3.11	36	3.609	112	11.229	...	...	...	...	...	...	7.88	8.41	9.63	10.48	11.32
3.21	28	2.807	90	9.023	...	...	6.48	7.37	8.22	9.07	10.73	11.22	12.36	13.18	13.98
3.27	22	2.206	72	7.218	6.27	7.95	8.77	9.59	10.41	11.22	12.82	13.31	14.43	15.23	16.02	
3.27	44	4.411	144	14.437	...	...	...	...	...	...	...	...	...	...	...
3.29	34	3.409	112	11.229	...	...	...	...	...	...	8.00	8.54	9.75	10.61	11.45
3.33	24	2.406	80	8.020	...	6.99	7.84	8.68	9.50	10.33	11.95	12.44	13.56	14.37	15.17	
3.43	56	5.614	192	19.249	...	...	...	...	...	...	...	...	...	...	...
3.46	26	2.607	90	9.023	...	...	6.61	7.49	8.35	9.20	10.86	11.35	12.50	13.31	14.12
3.50	32	3.208	112	11.229	...	...	...	...	...	...	8.12	8.66	9.88	10.74	11.58
3.60	40	4.010	144	14.437	...	...	...	...	...	...	...	...	...	...	...
3.64	22	2.206	80	8.020	...	7.12	7.97	8.81	9.64	10.46	12.09	12.58	13.70	14.51	15.31	
3.73	30	3.008	112	11.229	...	...	...	...	...	...	8.24	8.78	10.01	10.87	11.71
3.75	24	2.406	90	9.023	...	...	6.73	7.62	8.48	9.33	10.99	11.49	12.63	13.45	14.26
3.79	38	3.810	144	14.437	...	...	...	...	...	...	...	...	...	...	...
4.00	28	2.807	112	11.229	...	...	...	...	...	...	8.36	8.91	10.13	10.99	11.84
4.00	36	3.609	144	14.437	...	...	...	...	...	...	...	...	...	...	...
4.00	48	4.812	192	19.249	...	...	...	...	...	...	...	...	...	...	...
4.09	22	2.206	90	9.023	...	5.92	6.85	7.74	8.61	9.46	11.12	11.62	12.77	13.59	14.40	
4.24	34	3.409	144	14.437	...	...	...	...	...	...	...	...	...	...	...
4.31	26	2.607	112	11.229	...	...	...	...	...	...	8.48	9.03	10.26	11.12	11.97
4.36	44	4.411	192	19.249	...	...	...	...	...	...	...	...	...	...	...
4.50	32	3.208	144	14.437	...	...	...	...	...	...	...	...	...	...	...
4.67	24	2.406	112	11.229	...	...	...	...	...	...	8.60	9.15	10.38	11.25	12.10
4.80	30	3.008	144	14.437	...	...	...	...	...	...	...	...	...	...	...
4.80	40	4.010	192	19.249	...	...	...	...	...	...	...	...	...	...	...
5.05	38	3.810	192	19.249	...	...	...	...	...	...	...	...	...	...	...
5.09	22	2.206	112	11.229	...	...	...	...	...	...	8.72	9.27	10.51	11.38	12.23
5.14	28	2.807	144	14.437	...	...	...	...	...	...	...	...	...	...	...
5.33	36	3.609	192	19.249	...	...	...	...	...	...	...	...	...	...	...
5.54	26	2.607	144	14.437	...	...	...	...	...	...	...	...	...	...	...
5.65	34	3.409	192	19.249	...	...	...	...	...	...	...	...	...	...	...
6.00	24	2.406	144	14.437	...	...	...	...	...	...	...	...	...	...	...
6.00	32	3.208	192	19.249	...	...	...	...	...	...	...	...	...	...	...
6.40	30	3.008	192	19.249	...	...	...	...	...	...	...	...	...	...	...
6.55	22	2.206	144	14.437	...	...	...	...	...	...	...	...	...	...	...
6.86	28	2.807	192	19.249	...	...	...	...	...	...	...	...	...	...	...
Length Factor*					0.90	0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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8MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches																	
	Driver		Driven		1224-8M	1280-8M	1440-8M	1512-8M	1584-8M	1600-8M	1760-8M	1800-8M	2000-8M	2200-8M	2400-8M	2600-8M	2800-8M	3048-8M	3280-8M	3600-8M	4400-8M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Diam. Inches																		
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
2.91	22	2.206	64	6.416	17.19	18.30	21.47	22.90	24.32	24.63	27.79	28.59	32.53	36.47	40.42	44.36	48.30	53.19	57.75	64.06	79.82	
2.95	38	3.810	112	11.229	11.69	12.84	16.10	17.56	19.01	19.33	22.53	23.33	27.31	31.27	35.24	39.19	43.15	48.05	52.62	58.94	74.71	
3.00	24	2.406	72	7.218	16.36	17.47	20.65	22.08	23.50	23.81	26.98	27.77	31.72	35.67	39.61	43.55	47.50	52.39	56.96	63.26	79.02	
3.00	30	3.008	90	9.023	14.33	15.45	18.65	20.09	21.52	21.84	25.01	25.81	29.77	33.72	37.68	41.62	45.57	50.46	55.03	61.34	77.11	
3.00	48	4.812	144	14.437	...	...	12.27	13.80	15.30	15.63	18.91	19.73	23.76	27.77	31.76	35.74	39.71	44.62	49.21	55.54	71.33
3.00	64	6.416	192	19.249	...	...	...	...	...	...	...	...	18.08	22.23	26.31	30.36	34.37	39.33	43.95	50.31	66.16
3.08	26	2.607	80	8.020	15.51	16.63	19.81	21.25	22.67	22.99	26.16	26.95	30.90	34.85	38.80	42.75	46.70	51.58	56.15	62.46	78.22	
3.11	36	3.609	112	11.229	11.82	12.98	16.24	17.70	19.15	19.47	22.67	23.47	27.45	31.42	35.39	39.34	43.30	48.20	52.77	59.09	74.86	
3.21	28	2.807	90	9.023	14.47	15.59	18.80	20.23	21.67	21.98	25.16	25.96	29.92	33.87	37.83	41.77	45.72	50.61	55.19	61.50	77.26	
3.27	22	2.206	72	7.218	16.50	17.61	20.79	22.22	23.65	23.96	27.13	27.92	31.87	35.82	39.76	43.71	47.67	52.54	57.11	63.41	79.17	
3.27	44	4.411	144	14.437	...	...	12.52	14.06	15.56	15.89	19.18	20.00	24.04	28.05	32.05	36.03	40.00	44.92	49.51	55.84	71.64
3.29	34	3.409	112	11.229	11.95	13.11	16.38	17.84	19.29	19.61	22.81	23.61	27.60	31.57	35.53	39.49	43.45	48.35	52.92	59.24	75.02	
3.33	24	2.406	80	8.020	15.65	16.77	19.96	21.39	22.82	23.14	26.31	27.10	31.05	35.00	38.96	42.90	46.85	51.74	56.31	62.61	78.38	
3.43	56	5.614	192	19.249	...	...	...	...	...	...	13.39	14.19	18.60	22.77	26.86	30.91	34.94	39.90	44.53	50.89	66.75
3.46	26	2.607	90	9.023	14.61	15.73	18.94	20.38	21.81	22.13	25.31	26.10	30.06	34.02	37.98	41.92	45.87	50.76	55.34	61.65	77.41	
3.50	32	3.208	112	11.229	12.08	13.24	16.52	17.98	19.43	19.75	22.95	23.76	27.74	31.71	35.68	39.64	43.60	48.50	53.07	59.39	75.17	
3.60	40	4.010	144	14.437	...	...	12.78	14.32	15.82	16.16	19.45	20.27	24.32	28.34	32.34	36.32	40.29	45.21	49.80	56.13	71.94
3.64	22	2.206	80	8.020	15.80	16.91	20.10	21.54	22.96	23.28	26.45	27.25	31.20	35.15	39.11	43.05	47.00	51.89	56.46	62.77	78.53	
3.73	30	3.008	112	11.229	12.21	13.38	16.65	18.11	19.56	19.89	23.10	23.90	27.88	31.86	35.83	39.79	43.75	48.64	53.22	59.54	75.32	
3.75	24	2.406	90	9.023	14.75	15.87	19.08	20.52	21.95	22.27	25.45	26.25	30.21	34.17	38.13	42.07	46.02	50.92	55.49	61.80	77.57	
3.79	38	3.810	144	14.437	...	...	12.90	14.45	15.96	16.29	19.59	20.41	24.46	28.48	32.48	36.46	40.44	45.36	49.95	56.28	72.09
4.00	28	2.807	112	11.229	12.35	13.51	16.79	18.25	19.70	20.03	23.24	24.04	28.03	32.00	35.97	39.93	43.89	48.79	53.37	59.69	75.47	
4.00	36	3.609	144	14.437	...	9.42	13.03	14.57	16.09	16.42	19.72	20.54	24.60	28.62	32.62	36.61	40.59	45.50	50.10	56.43	72.24	
4.00	48	4.812	192	19.249	...	...	...	...	...	...	13.88	14.78	19.12	23.30	27.41	31.47	35.50	40.47	45.10	51.47	67.34
4.09	22	2.206	90	9.023	14.88	16.01	19.22	20.66	22.10	22.42	25.60	26.40	30.36	34.32	38.27	42.22	46.17	51.07	55.64	61.95	77.72	
4.24	34	3.409	144	14.437	...	9.53	13.16	14.70	16.22	16.55	19.86	20.68	24.74	28.76	32.76	36.75	40.73	45.65	50.25	56.58	72.39	
4.31	26	2.607	112	11.229	12.48	13.64	16.93	18.39	19.84	20.17	23.38	24.18	28.17	32.15	36.12	40.08	44.04	48.94	53.52	59.84	75.63	
4.36	44	4.411	192	19.249	...	...	...	...	...	...	4.12	15.03	19.38	25.57	27.68	31.74	35.78	40.75	45.39	51.76	67.63
4.50	32	3.208	144	14.437	...	9.65	13.28	14.83	16.35	16.68	19.99	20.81	24.88	28.90	32.91	36.89	40.88	45.80	50.39	56.73	72.54	
4.67	24	2.406	112	11.229	12.61	13.77	17.06	18.53	19.98	20.30	23.52	24.32	28.32	32.29	36.27	40.23	44.19	49.09	53.67	59.99	75.78	
4.80	30	3.008	144	14.437	...	9.77	13.41	14.96	16.48	16.81	20.13	20.95	25.01	29.04	33.05	37.04	41.02	45.94	50.54	56.88	72.69	
4.80	40	4.010	192	19.249	...	...	...	...	...	...	14.37	15.27	19.63	23.83	27.95	32.02	36.05	41.03	45.67	52.05	67.93
5.05	38	3.810	192	19.249	...	...	...	...	...	...	14.49	15.40	19.76	23.96	28.08	32.15	36.19	41.18	45.82	52.19	68.08
5.09	22	2.206	112	11.229	12.74	13.90	17.20	18.67	20.12	20.44	23.66	24.47	28.46	32.44	36.41	40.38	44.34	49.24	53.82	60.14	75.93	
5.14	28	2.807	144	14.437	...	9.89	13.53	15.09	16.61	16.94	20.26	21.08	25.15	29.18	33.19	37.18	41.17	46.09	50.69	57.02	72.84	
5.33	36	3.609	192	19.249	...	...	...	...	...	...	14.61	15.52	19.89	24.09	28.22	32.29	36.33	41.32	45.96	52.34	68.22
5.54	26	2.607	144	14.437	...	10.00	13.66	15.21	16.74	17.07	20.39	21.22	25.29	29.32	33.33	37.32	41.31	46.23	50.83	57.17	72.99	
5.65	34	3.409	192	19.249	...	...	...	...	...	...	14.73	15.64	20.02	24.23	28.35	32.43	36.47	41.46	46.10	52.48	68.37
6.00	24	2.406	144	14.437	...	10.12	13.78	15.34	16.87	17.20	20.53	21.35	25.43	29.46	33.47	37.47	41.45	46.38	50.98	57.32	73.14	
6.00	32	3.208	192	19.249	...	...	...	...	...	...	14.85	15.76	20.14	24.36	28.49	32.56	36.61	41.60	46.24	52.63	68.52
6.40	30	3.008	192	19.249	...	...	...	...	...	...	14.97	15.89	20.27	24.49	28.62	32.70	36.75	41.74	46.38	52.77	68.66
6.55	22	2.206	144	14.437	8.80	10.24	13.91	15.47	17.00	17.33	20.66	21.49	25.56	29.60	33.62	37.61	41.60	46.53	51.13	57.47	73.29	
6.86	28	2.807	192	19.249	...	...	...	...	...	...	15.09	16.01	20.40	24.62	28.75	32.84	36.89	41.88	46.53	52.91	68.81
Length Factor*					1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.



SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M	
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches												
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05	
1.00	28	4.912	28	4.912	11.30	15.71	19.84	23.98	27.28	29.49	33.62	37.75	40.51	43.27	47.40	
1.00	29	5.088	29	5.088	11.02	15.43	19.57	23.70	27.01	29.21	33.35	37.48	40.24	42.99	47.13	
1.00	30	5.263	30	5.263	10.75	15.16	19.29	23.43	26.73	28.94	33.07	37.20	39.96	42.72	46.85	
1.00	32	5.614	32	5.614	10.20	14.61	18.74	22.88	26.18	28.39	32.52	36.65	39.41	42.17	46.30	
1.00	34	5.965	34	5.965	9.65	14.06	18.19	22.33	25.63	27.84	31.97	36.10	38.86	41.62	45.75	
1.00	36	6.316	36	6.316	9.09	13.50	17.64	21.77	25.08	27.28	31.42	35.55	38.31	41.06	45.20	
1.00	38	6.667	38	6.667	8.54	12.95	17.09	21.22	24.53	26.73	30.87	35.00	37.76	40.51	44.65	
1.00	40	7.018	40	7.018	7.99	12.40	16.54	20.67	23.98	26.18	30.32	34.45	37.21	39.96	44.10	
1.00	44	7.720	44	7.720	...	11.30	15.43	19.57	22.87	25.08	29.21	33.34	36.10	38.86	42.99	
1.00	48	8.421	48	8.421	...	10.20	14.33	18.47	21.77	23.98	28.11	32.24	35.00	37.76	41.89	
1.00	52	9.123	52	9.123	...	...	13.23	17.36	20.67	22.87	27.01	31.14	33.90	36.65	40.79
1.00	56	9.825	56	9.825	...	...	12.13	16.26	19.57	21.77	25.91	30.04	32.80	35.55	39.69
1.00	60	10.527	60	10.527	...	...	...	15.16	18.46	20.67	24.80	28.93	31.69	34.45	38.58
1.00	64	11.229	64	11.229	...	...	...	14.06	17.36	19.57	23.70	27.83	30.59	33.35	37.48
1.00	68	11.930	68	11.930	...	...	...	12.96	16.26	18.47	22.60	26.73	29.49	32.25	36.38
1.00	72	12.632	72	12.632	...	...	...	...	15.16	17.36	21.50	25.63	28.39	31.14	35.28
1.00	80	14.036	80	14.036	...	...	...	...	...	15.16	19.29	23.42	26.18	28.94	33.07
1.03	29	5.088	30	5.263	10.88	15.30	19.43	23.57	26.87	29.08	33.21	37.34	40.10	42.86	46.99	
1.04	28	4.912	29	5.088	11.16	15.57	19.71	23.84	27.15	29.35	33.49	37.62	40.38	43.13	47.27	
1.05	38	6.667	40	7.018	8.26	12.68	16.81	20.95	24.25	26.46	30.59	34.72	37.48	40.24	44.37	
1.06	36	6.316	38	6.667	8.82	13.23	17.36	21.50	24.80	27.01	31.14	35.27	38.03	40.79	44.92	
1.06	34	5.965	36	6.316	9.37	13.78	17.91	22.05	25.35	27.56	31.69	35.82	38.58	41.34	45.47	
1.06	68	11.930	72	12.632	...	...	...	...	15.71	17.91	22.05	26.18	28.94	31.69	35.83
1.06	32	5.614	34	5.965	9.92	14.33	18.47	22.60	25.91	28.11	32.25	36.38	39.14	41.89	46.03	
1.06	64	11.229	68	11.930	15.50	16.81	19.01	23.15	27.28	30.04	32.79	36.93
1.07	30	5.263	32	5.614	10.47	14.88	19.02	23.15	26.46	28.66	32.80	36.93	39.69	42.44	46.58	
1.07	60	10.527	64	11.229	...	...	...	14.60	17.91	20.11	24.25	28.38	31.14	33.90	38.03
1.07	28	4.912	30	5.263	11.02	15.43	19.57	23.70	27.01	29.21	33.35	37.48	40.24	42.99	47.13	
1.07	56	9.825	60	10.527	...	...	11.57	15.71	19.01	21.22	25.35	29.48	32.24	35.00	39.13
1.08	52	9.123	56	9.825	...	...	12.67	16.81	20.12	22.32	26.46	30.59	33.35	36.10	40.24
1.08	48	8.421	52	9.123	...	9.64	13.78	17.91	21.22	23.42	27.56	31.69	34.45	37.20	41.34	
1.09	44	7.720	48	8.421	...	10.74	14.88	19.01	22.32	24.53	28.66	32.79	35.55	38.31	42.44	
1.10	40	7.018	44	7.720	...	11.84	15.98	20.12	23.42	25.63	29.76	33.89	36.65	39.41	43.54	
1.10	29	5.088	32	5.614	10.61	15.02	19.15	23.29	26.59	28.80	32.93	37.06	39.82	42.58	46.71	
1.11	36	6.316	40	7.018	8.54	12.95	17.08	21.22	24.52	26.73	30.87	35.00	37.76	40.51	44.65	
1.11	72	12.632	80	14.036	...	...	...	...	14.04	16.24	20.38	24.51	27.28	30.03	34.17
1.12	34	5.965	38	6.667	9.09	13.50	17.64	21.77	25.08	27.28	31.42	35.55	38.31	41.06	45.20	
1.13	32	5.614	36	6.316	9.64	14.05	18.19	22.32	25.63	27.83	31.97	36.10	38.86	41.61	45.75	
1.13	64	11.229	72	12.632	...	...	...	12.94	16.24	18.45	22.59	26.72	29.48	32.24	36.37
1.13	80	14.036	90	15.790	...	...	...	...	...	...	17.89	22.03	24.79	27.55	31.68
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05	

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.00	28	4.912	28	4.912	54.29	58.42	61.18	68.07	77.44	82.40	89.84	97.01	105.27	113.54	127.32	
1.00	29	5.088	29	5.088	54.02	58.15	60.91	67.79	77.16	82.13	89.57	96.73	105.00	113.27	127.05	
1.00	30	5.263	30	5.263	53.74	57.87	60.63	67.52	76.89	81.85	89.29	96.46	104.72	112.99	126.77	
1.00	32	5.614	32	5.614	53.19	57.32	60.08	66.97	76.34	81.30	88.74	95.91	104.17	112.44	126.22	
1.00	34	5.965	34	5.965	52.64	56.77	59.53	66.42	75.79	80.75	88.19	95.36	103.62	111.89	125.67	
1.00	36	6.316	36	6.316	52.09	56.22	58.98	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	
1.00	38	6.667	38	6.667	51.54	55.67	58.43	65.31	74.68	79.65	87.09	94.25	102.52	110.79	124.57	
1.00	40	7.018	40	7.018	50.99	55.12	57.88	64.76	74.13	79.10	86.54	93.70	101.97	110.24	124.02	
1.00	44	7.720	44	7.720	49.88	54.01	56.77	63.66	73.03	77.99	85.43	92.60	100.86	109.13	122.91	
1.00	48	8.421	48	8.421	48.78	52.91	55.67	62.56	71.93	76.89	84.33	91.50	99.76	108.03	121.81	
1.00	52	9.123	52	9.123	47.68	51.81	54.57	61.45	70.82	75.79	83.23	90.39	98.66	106.93	120.71	
1.00	56	9.825	56	9.825	46.58	50.71	53.47	60.35	69.72	74.69	82.13	89.29	97.56	105.83	119.61	
1.00	60	10.527	60	10.527	45.47	49.60	52.36	59.25	68.62	73.58	81.02	88.19	96.45	104.72	118.50	
1.00	64	11.229	64	11.229	44.37	48.50	51.26	58.15	67.52	72.48	79.92	87.09	95.35	103.62	117.40	
1.00	68	11.930	68	11.930	43.27	47.40	50.16	57.05	66.42	71.38	78.82	85.99	94.25	102.52	116.30	
1.00	72	12.632	72	12.632	42.17	46.30	49.06	55.94	65.31	70.28	77.72	84.88	93.15	101.42	115.20	
1.00	80	14.036	80	14.036	39.96	44.09	46.85	53.74	63.11	68.07	75.51	82.68	90.94	99.21	112.99	
1.03	29	5.088	30	5.263	53.88	58.01	60.77	67.66	77.03	81.99	89.43	96.60	104.86	113.13	126.91	
1.04	28	4.912	29	5.088	54.16	58.29	61.05	67.93	77.30	82.27	89.71	96.87	105.14	113.41	127.19	
1.05	38	6.667	40	7.018	51.26	55.39	58.15	65.04	74.41	79.37	86.81	93.98	102.24	110.51	124.29	
1.06	36	6.316	38	6.667	51.81	55.94	58.70	65.59	74.96	79.92	87.36	94.53	102.79	111.06	124.84	
1.06	34	5.965	36	6.316	52.36	56.49	59.25	66.14	75.51	80.47	87.91	95.08	103.34	111.61	125.39	
1.06	68	11.930	72	12.632	42.72	46.85	49.61	56.49	65.86	70.83	78.27	85.43	93.70	101.97	115.75	
1.06	32	5.614	34	5.965	52.92	57.05	59.81	66.69	76.06	81.03	88.47	95.63	103.90	112.17	125.95	
1.06	64	11.229	68	11.930	43.82	47.95	50.71	57.59	66.97	71.93	79.37	86.54	94.80	103.07	116.85	
1.07	30	5.263	32	5.614	53.47	57.60	60.36	67.24	76.61	81.58	89.02	96.18	104.45	112.72	126.50	
1.07	60	10.527	64	11.229	44.92	49.05	51.81	58.70	68.07	73.03	80.47	87.64	95.90	104.17	117.95	
1.07	28	4.912	30	5.263	54.02	58.15	60.91	67.79	77.16	82.13	89.57	96.73	105.00	113.27	127.05	
1.07	56	9.825	60	10.527	46.02	50.15	52.91	59.80	69.17	74.13	81.57	88.74	97.00	105.27	119.06	
1.08	52	9.123	56	9.825	47.13	51.26	54.02	60.90	70.27	75.24	82.68	89.84	98.11	106.38	120.16	
1.08	48	8.421	52	9.123	48.23	52.36	55.12	62.00	71.38	76.34	83.78	90.95	99.21	107.48	121.26	
1.09	44	7.720	48	8.421	49.33	53.46	56.22	63.11	72.48	77.44	84.88	92.05	100.31	108.58	122.36	
1.10	40	7.018	44	7.720	50.43	54.56	57.32	64.21	73.58	78.54	85.98	93.15	101.41	109.68	123.46	
1.10	29	5.088	32	5.614	53.60	57.73	60.49	67.38	76.75	81.71	89.15	96.32	104.58	112.85	126.63	
1.11	36	6.316	40	7.018	51.54	55.67	58.43	65.31	74.68	79.65	87.09	94.25	102.52	110.79	124.57	
1.11	72	12.632	80	14.036	41.06	45.19	47.95	54.84	64.21	69.17	76.61	83.78	92.04	100.31	114.09	
1.12	34	5.965	38	6.667	52.09	56.22	58.98	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	
1.13	32	5.614	36	6.316	52.64	56.77	59.53	66.41	75.78	80.75	88.19	95.35	103.62	111.89	125.67	
1.13	64	11.229	72	12.632	43.26	47.39	50.15	57.04	66.41	71.38	78.82	85.98	94.25	102.52	116.30	
1.13	80	14.036	90	15.790	38.57	42.71	45.47	52.35	61.72	66.69	74.13	81.29	89.56	97.83	111.61	
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches											
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05
1.13	30	5.263	34	5.965	10.19	14.60	18.74	22.87	26.18	28.38	32.52	36.65	39.41	42.17	46.30
1.13	60	10.527	68	11.930	...	...	...	14.04	17.35	19.55	23.69	27.82	30.58	33.34	37.48
1.14	28	4.912	32	5.614	10.74	15.15	19.29	23.43	26.73	28.94	33.07	37.20	39.96	42.72	46.85
1.14	56	9.825	64	11.229	...	...	...	15.14	18.45	20.66	24.79	28.93	31.69	34.44	38.58
1.15	52	9.123	60	10.527	...	...	12.11	16.25	19.55	21.76	25.90	30.03	32.79	35.54	39.68
1.16	38	6.667	44	7.720	...	12.11	16.25	20.39	23.69	25.90	30.04	34.17	36.93	39.68	43.82
1.17	48	8.421	56	9.825	...	...	13.21	17.35	20.66	22.86	27.00	31.13	33.89	36.65	40.78
1.17	29	5.088	34	5.965	10.32	14.74	18.87	23.01	26.32	28.52	32.66	36.79	39.55	42.30	46.44
1.18	34	5.965	40	7.018	8.80	13.22	17.36	21.49	24.80	27.00	31.14	35.27	38.03	40.78	44.92
1.18	68	11.930	80	14.036	...	...	...	...	14.57	16.78	20.92	25.05	27.82	30.57	34.71
1.18	44	7.720	52	9.123	...	10.17	14.31	18.45	21.76	23.97	28.10	32.23	34.99	37.75	41.89
1.19	32	5.614	38	6.667	9.35	13.77	17.91	22.04	25.35	27.55	31.69	35.82	38.58	41.34	45.47
1.20	30	5.263	36	6.316	9.91	14.32	18.46	22.59	25.90	28.11	32.24	36.37	39.13	41.89	46.02
1.20	40	7.018	48	8.421	...	11.28	15.42	19.56	22.86	25.07	29.21	33.34	36.10	38.85	42.99
1.20	60	10.527	72	12.632	...	...	...	13.46	16.78	18.99	23.13	27.26	30.02	32.78	36.92
1.21	28	4.912	34	5.965	10.46	14.87	19.01	23.15	26.45	28.66	32.79	36.92	39.68	42.44	46.57
1.21	56	9.825	68	11.930	...	...	...	14.57	17.88	20.09	24.23	28.36	31.13	33.88	38.02
1.22	36	6.316	44	7.720	7.96	12.38	16.52	20.66	23.97	26.17	30.31	34.44	37.20	39.95	44.09
1.23	52	9.123	64	11.229	...	...	11.53	15.68	18.99	21.19	25.33	29.47	32.23	34.98	39.12
1.24	29	5.088	36	6.316	10.04	14.46	18.59	22.73	26.04	28.24	32.38	36.51	39.27	42.02	46.16
1.25	32	5.614	40	7.018	9.07	13.49	17.62	21.76	25.07	27.27	31.41	35.54	38.30	41.06	45.19
1.25	48	8.421	60	10.527	...	...	12.63	16.78	20.09	22.30	26.44	30.57	33.33	36.09	40.22
1.25	64	11.229	80	14.036	...	...	...	...	15.09	17.30	21.45	25.59	28.35	31.11	35.25
1.25	72	12.632	90	15.790	...	...	...	...	...	14.80	18.95	23.09	25.86	28.62	32.76
1.26	38	6.667	48	8.421	...	11.54	15.69	19.83	23.13	25.34	29.48	33.61	36.37	39.13	43.26
1.27	30	5.263	38	6.667	9.62	14.04	18.18	22.31	25.62	27.83	31.96	36.09	38.85	41.61	45.74
1.27	44	7.720	56	9.825	...	9.59	13.74	17.88	21.19	23.40	27.54	31.67	34.43	37.19	41.33
1.29	28	4.912	36	6.316	10.17	14.59	18.73	22.87	26.17	28.38	32.51	36.64	39.41	42.16	46.30
1.29	56	9.825	72	12.632	...	...	...	13.99	17.31	19.52	23.66	27.80	30.56	33.32	37.46
1.29	34	5.965	44	7.720	8.22	12.65	16.79	20.93	24.24	26.44	30.58	34.71	37.47	40.23	44.36
1.30	40	7.018	52	9.123	...	10.70	14.85	18.99	22.30	24.51	28.64	32.78	35.54	38.29	42.43
1.31	52	9.123	68	11.930	...	...	...	15.09	18.41	20.62	24.77	28.90	31.66	34.42	38.56
1.31	29	5.088	38	6.667	9.75	14.17	18.31	22.45	25.76	27.96	32.10	36.23	38.99	41.75	45.88
1.32	68	11.930	90	15.790	...	...	...	...	...	15.31	19.47	23.62	26.39	29.15	33.29
1.33	30	5.263	40	7.018	9.33	13.75	17.89	22.03	25.34	27.55	31.68	35.81	38.57	41.33	45.47
1.33	36	6.316	48	8.421	...	11.80	15.95	20.09	23.40	25.61	29.75	33.88	36.64	39.40	43.53
1.33	48	8.421	64	11.229	...	...	12.05	16.20	19.52	21.73	25.87	30.00	32.77	35.52	39.66
1.33	60	10.527	80	14.036	...	...	...	...	15.61	17.83	21.98	26.12	28.88	31.64	35.79
1.36	28	4.912	38	6.667	9.88	14.30	18.45	22.58	25.89	28.10	32.23	36.37	39.13	41.88	46.02
1.36	44	7.720	60	10.527	...	...	13.15	17.31	20.62	22.83	26.97	31.11	33.87	36.63	40.76
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.13	30	5.263	34	5.965	53.19	57.32	60.08	66.97	76.34	81.30	88.74	95.91	104.17	112.44	126.22	
1.13	60	10.527	68	11.930	44.37	48.50	51.26	58.14	67.51	72.48	79.92	87.08	95.35	103.62	117.40	
1.14	28	4.912	32	5.614	53.74	57.87	60.63	67.52	76.89	81.85	89.29	96.46	104.72	112.99	126.77	
1.14	56	9.825	64	11.229	45.47	49.60	52.36	59.25	68.62	73.58	81.02	88.19	96.45	104.72	118.50	
1.15	52	9.123	60	10.527	46.57	50.70	53.46	60.35	69.72	74.68	82.12	89.29	97.55	105.82	119.60	
1.16	38	6.667	44	7.720	50.71	54.84	57.60	64.48	73.85	78.82	86.26	93.42	101.69	109.96	123.74	
1.17	48	8.421	56	9.825	47.67	51.80	54.57	61.45	70.82	75.79	83.23	90.39	98.66	106.93	120.71	
1.17	29	5.088	34	5.965	53.33	57.46	60.22	67.10	76.47	81.44	88.88	96.04	104.31	112.58	126.36	
1.18	34	5.965	40	7.018	51.81	55.94	58.70	65.59	74.96	79.92	87.36	94.53	102.79	111.06	124.84	
1.18	68	11.930	80	14.036	41.60	45.73	48.49	55.38	64.75	69.72	77.16	84.32	92.59	100.86	114.64	
1.18	44	7.720	52	9.123	48.78	52.91	55.67	62.55	71.92	76.89	84.33	91.49	99.76	108.03	121.81	
1.19	32	5.614	38	6.667	52.36	56.49	59.25	66.14	75.51	80.47	87.91	95.08	103.34	111.61	125.39	
1.20	30	5.263	36	6.316	52.91	57.04	59.80	66.69	76.06	81.02	88.46	95.63	103.89	112.16	125.94	
1.20	40	7.018	48	8.421	49.88	54.01	56.77	63.66	73.03	77.99	85.43	92.60	100.86	109.13	122.91	
1.20	60	10.527	72	12.632	43.81	47.94	50.70	57.59	66.96	71.92	79.36	86.53	94.80	103.07	116.85	
1.21	28	4.912	34	5.965	53.46	57.59	60.35	67.24	76.61	81.58	89.02	96.18	104.45	112.72	126.50	
1.21	56	9.825	68	11.930	44.91	49.04	51.80	58.69	68.06	73.03	80.47	87.63	95.90	104.17	117.95	
1.22	36	6.316	44	7.720	50.98	55.11	57.87	64.76	74.13	79.09	86.53	93.70	101.96	110.23	124.01	
1.23	52	9.123	64	11.229	46.01	50.14	52.91	59.79	69.16	74.13	81.57	88.73	97.00	105.27	119.05	
1.24	29	5.088	36	6.316	53.05	57.18	59.94	66.83	76.20	81.16	88.60	95.77	104.03	112.30	126.08	
1.25	32	5.614	40	7.018	52.08	56.21	58.97	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	
1.25	48	8.421	60	10.527	47.12	51.25	54.01	60.89	70.27	75.23	82.67	89.84	98.10	106.37	120.15	
1.25	64	11.229	80	14.036	42.14	46.28	49.04	55.92	65.30	70.26	77.70	84.87	93.14	101.41	115.19	
1.25	72	12.632	90	15.790	39.66	43.79	46.55	53.44	62.81	67.78	75.22	82.39	90.65	98.92	112.71	
1.26	38	6.667	48	8.421	50.15	54.28	57.04	63.93	73.30	78.26	85.71	92.87	101.14	109.41	123.19	
1.27	30	5.263	38	6.667	52.64	56.77	59.53	66.41	75.78	80.75	88.19	95.35	103.62	111.89	125.67	
1.27	44	7.720	56	9.825	48.22	52.35	55.11	62.00	71.37	76.33	83.77	90.94	99.20	107.48	121.26	
1.29	28	4.912	36	6.316	53.19	57.32	60.08	66.96	76.33	81.30	88.74	95.90	104.17	112.44	126.22	
1.29	56	9.825	72	12.632	44.35	48.48	51.24	58.13	67.50	72.47	79.91	87.08	95.34	103.61	117.39	
1.29	34	5.965	44	7.720	51.25	55.38	58.15	65.03	74.40	79.37	86.81	93.97	102.24	110.51	124.29	
1.30	40	7.018	52	9.123	49.32	53.45	56.21	63.10	72.47	77.44	84.88	92.04	100.31	108.58	122.36	
1.31	52	9.123	68	11.930	45.45	49.59	52.35	59.23	68.61	73.57	81.01	88.18	96.44	104.72	118.50	
1.31	29	5.088	38	6.667	52.77	56.90	59.66	66.55	75.92	80.88	88.32	95.49	103.75	112.02	125.81	
1.32	68	11.930	90	15.790	40.19	44.33	47.09	53.98	63.35	68.32	75.76	82.93	91.20	99.47	113.25	
1.33	30	5.263	40	7.018	52.36	56.49	59.25	66.13	75.50	80.47	87.91	95.08	103.34	111.61	125.39	
1.33	36	6.316	48	8.421	50.42	54.56	57.32	64.20	73.57	78.54	85.98	93.14	101.41	109.68	123.46	
1.33	48	8.421	64	11.229	46.56	50.69	53.45	60.34	69.71	74.67	82.11	89.28	97.55	105.82	119.60	
1.33	60	10.527	80	14.036	42.68	46.82	49.58	56.47	65.84	70.81	78.25	85.42	93.68	101.95	115.73	
1.36	28	4.912	38	6.667	52.91	57.04	59.80	66.69	76.06	81.02	88.46	95.63	103.89	112.16	125.94	
1.36	44	7.720	60	10.527	47.66	51.79	54.55	61.44	70.81	75.78	83.22	90.38	98.65	106.92	120.70	
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches											
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05
1.37	38	6.667	52	9.123	...	10.95	15.11	19.25	22.57	24.77	28.91	33.05	35.81	38.56	42.70
1.38	32	5.614	44	7.720	8.48	12.91	17.05	21.20	24.50	26.71	30.85	34.98	37.74	40.50	44.64
1.38	29	5.088	40	7.018	9.46	13.88	18.03	22.17	25.47	27.68	31.82	35.95	38.71	41.47	45.60
1.39	52	9.123	72	12.632	...	...	...	14.50	17.83	20.04	24.19	28.33	31.09	33.85	37.99
1.40	40	7.018	56	9.825	...	10.10	14.26	18.41	21.73	23.94	28.08	32.21	34.97	37.73	41.87
1.40	80	14.036	112	19.650	...	...	...	...	...	...	...	18.80	21.59	24.37	28.52
1.41	64	11.229	90	15.790	...	...	...	...	...	15.82	19.99	24.14	26.91	29.68	33.82
1.41	34	5.965	48	8.421	...	12.06	16.21	20.36	23.67	25.88	30.02	34.15	36.91	39.67	43.80
1.42	48	8.421	68	11.930	...	...	11.44	15.61	18.94	21.15	25.30	29.43	32.20	34.96	39.10
1.43	28	4.912	40	7.018	9.59	14.02	18.16	22.30	25.61	27.82	31.95	36.08	38.85	41.60	45.74
1.43	56	9.825	80	14.036	...	...	...	12.78	16.12	18.34	22.50	26.65	29.41	32.18	36.32
1.44	36	6.316	52	9.123	...	11.21	15.37	19.52	22.83	25.04	29.18	33.31	36.08	38.83	42.97
1.46	44	7.720	64	11.229	...	...	12.55	16.72	20.04	22.25	26.40	30.54	33.30	36.06	40.20
1.47	30	5.263	44	7.720	8.73	13.17	17.32	21.46	24.77	26.98	31.12	35.25	38.01	40.77	44.91
1.47	38	6.667	56	9.825	...	10.35	14.52	18.68	21.99	24.20	28.34	32.48	35.24	38.00	42.14
1.50	32	5.614	48	8.421	7.87	12.32	16.48	20.62	23.94	26.14	30.28	34.42	37.18	39.94	44.07
1.50	40	7.018	60	10.527	...	9.48	13.67	17.83	21.15	23.36	27.50	31.64	34.41	37.16	41.30
1.50	48	8.421	72	12.632	...	...	...	15.01	18.34	20.56	24.72	28.86	31.62	34.39	38.53
1.50	60	10.527	90	15.790	...	...	...	...	14.08	16.32	20.50	24.66	27.43	30.20	34.35
1.52	29	5.088	44	7.720	8.86	13.30	17.45	21.60	24.91	27.11	31.25	35.39	38.15	40.90	45.04
1.53	34	5.965	52	9.123	...	11.47	15.63	19.78	23.10	25.31	29.45	33.58	36.35	39.10	43.24
1.54	52	9.123	80	14.036	...	...	...	13.28	16.63	18.86	23.02	27.17	29.94	32.70	36.85
1.55	44	7.720	68	11.930	...	...	11.94	16.12	19.45	21.67	25.82	29.96	32.73	35.49	39.63
1.56	36	6.316	56	9.825	...	10.60	14.78	18.94	22.25	24.46	28.61	32.75	35.51	38.27	42.41
1.56	72	12.632	112	19.650	...	...	...	...	...	...	...	19.80	22.60	25.39	29.56
1.57	28	4.912	44	7.720	8.98	13.43	17.58	21.73	25.04	27.25	31.39	35.52	38.28	41.04	45.18
1.58	38	6.667	60	10.527	...	9.73	13.92	18.09	21.41	23.62	27.77	31.91	34.67	37.43	41.57
1.60	30	5.263	48	8.421	8.11	12.58	16.74	20.89	24.20	26.41	30.55	34.69	37.45	40.21	44.34
1.60	40	7.018	64	11.229	...	...	13.06	17.24	20.56	22.78	26.93	31.07	33.83	36.59	40.73
1.61	56	9.825	90	15.790	...	...	...	...	14.58	16.82	21.01	25.18	27.95	30.72	34.87
1.63	32	5.614	52	9.123	...	11.72	15.89	20.04	23.36	25.57	29.71	33.85	36.61	39.37	43.51
1.64	44	7.720	72	12.632	...	...	11.31	15.52	18.86	21.08	25.24	29.38	32.15	34.91	39.06
1.65	34	5.965	56	9.825	...	10.85	15.03	19.20	22.52	24.73	28.87	33.01	35.78	38.54	42.67
1.65	68	11.930	112	19.650	...	...	...	...	...	...	...	20.30	23.10	25.89	30.07
1.66	29	5.088	48	8.421	8.24	12.71	16.87	21.02	24.33	26.54	30.68	34.82	37.58	40.34	44.48
1.67	36	6.316	60	10.527	...	9.97	14.17	18.35	21.67	23.88	28.03	32.17	34.94	37.70	41.84
1.67	48	8.421	80	14.036	...	...	...	13.77	17.13	19.36	23.53	27.69	30.46	33.23	37.38
1.68	38	6.667	64	11.229	...	...	13.31	17.49	20.82	23.04	27.19	31.33	34.10	36.86	41.00
1.70	40	7.018	68	11.930	...	...	12.43	16.63	19.97	22.19	26.34	30.49	33.26	36.02	40.16
1.71	28	4.912	48	8.421	8.36	12.83	17.00	21.15	24.47	26.68	30.82	34.95	37.72	40.48	44.61
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.37	38	6.667	52	9.123	49.59	53.72	56.49	63.37	72.74	77.71	85.15	92.32	100.58	108.85	122.63	
1.38	32	5.614	44	7.720	51.53	55.66	58.42	65.30	74.68	79.64	87.08	94.25	102.51	110.78	124.56	
1.38	29	5.088	40	7.018	52.49	56.62	59.38	66.27	75.64	80.61	88.05	95.21	103.48	111.75	125.53	
1.39	52	9.123	72	12.632	44.89	49.02	51.78	58.67	68.05	73.01	80.45	87.62	95.89	104.16	117.94	
1.40	40	7.018	56	9.825	48.76	52.89	55.65	62.54	71.91	76.88	84.32	91.49	99.75	108.02	121.80	
1.40	80	14.036	112	19.650	35.44	39.58	42.35	49.25	58.63	63.60	71.05	78.22	86.49	94.76	108.55	
1.41	64	11.229	90	15.790	40.73	44.86	47.62	54.52	63.89	68.86	76.31	83.47	91.74	100.01	113.80	
1.41	34	5.965	48	8.421	50.70	54.83	57.59	64.47	73.85	78.81	86.25	93.42	101.68	109.95	123.74	
1.42	48	8.421	68	11.930	45.99	50.13	52.89	59.78	69.15	74.12	81.56	88.72	96.99	105.26	119.04	
1.43	28	4.912	40	7.018	52.63	56.76	59.52	66.41	75.78	80.74	88.18	95.35	103.61	111.89	125.67	
1.43	56	9.825	80	14.036	43.22	47.35	50.12	57.01	66.38	71.35	78.79	85.96	94.23	102.50	116.28	
1.44	36	6.316	52	9.123	49.86	54.00	56.76	63.64	73.02	77.98	85.42	92.59	100.85	109.13	122.91	
1.46	44	7.720	64	11.229	47.09	51.23	53.99	60.88	70.25	75.22	82.66	89.83	98.09	106.36	120.14	
1.47	30	5.263	44	7.720	51.80	55.93	58.69	65.58	74.95	79.91	87.35	94.52	102.79	111.06	124.84	
1.47	38	6.667	56	9.825	49.03	53.16	55.92	62.81	72.18	77.15	84.59	91.76	100.02	108.30	122.08	
1.50	32	5.614	48	8.421	50.97	55.10	57.86	64.75	74.12	79.08	86.53	93.69	101.96	110.23	124.01	
1.50	40	7.018	60	10.527	48.20	52.33	55.09	61.98	71.35	76.32	83.76	90.93	99.19	107.47	121.25	
1.50	48	8.421	72	12.632	45.43	49.56	52.32	59.21	68.59	73.55	81.00	88.16	96.43	104.70	118.49	
1.50	60	10.527	90	15.790	41.26	45.39	48.16	55.05	64.43	69.40	76.85	84.01	92.28	100.56	114.34	
1.52	29	5.088	44	7.720	51.93	56.07	58.83	65.71	75.08	80.05	87.49	94.66	102.92	111.19	124.97	
1.53	34	5.965	52	9.123	50.14	54.27	57.03	63.92	73.29	78.25	85.70	92.86	101.13	109.40	123.18	
1.54	52	9.123	80	14.036	43.75	47.89	50.65	57.54	66.92	71.89	79.33	86.50	94.77	103.04	116.83	
1.55	44	7.720	68	11.930	46.53	50.66	53.43	60.32	69.69	74.66	82.10	89.27	97.53	105.81	119.59	
1.56	36	6.316	56	9.825	49.30	53.43	56.20	63.08	72.46	77.42	84.86	92.03	100.30	108.57	122.35	
1.56	72	12.632	112	19.650	36.49	40.63	43.40	50.31	59.70	64.67	72.12	79.29	87.57	95.84	109.63	
1.57	28	4.912	44	7.720	52.07	56.20	58.96	65.85	75.22	80.19	87.63	94.79	103.06	111.33	125.11	
1.58	38	6.667	60	10.527	48.47	52.60	55.36	62.25	71.62	76.59	84.03	91.20	99.47	107.74	121.52	
1.60	30	5.263	48	8.421	51.24	55.37	58.13	65.02	74.39	79.36	86.80	93.96	102.23	110.50	124.28	
1.60	40	7.018	64	11.229	47.63	51.77	54.53	61.42	70.79	75.76	83.20	90.37	98.64	106.91	120.69	
1.61	56	9.825	90	15.790	41.79	45.93	48.69	55.59	64.97	69.94	77.38	84.55	92.82	101.10	114.88	
1.63	32	5.614	52	9.123	50.41	54.54	57.30	64.19	73.56	78.53	85.97	93.13	101.40	109.67	123.45	
1.64	44	7.720	72	12.632	45.96	50.10	52.86	59.75	69.13	74.09	81.54	88.71	96.97	105.25	119.03	
1.65	34	5.965	56	9.825	49.57	53.70	56.47	63.35	72.73	77.69	85.14	92.30	100.57	108.84	122.62	
1.65	68	11.930	112	19.650	37.01	41.16	43.93	50.84	60.23	65.20	72.65	79.83	88.10	96.38	110.17	
1.66	29	5.088	48	8.421	51.37	55.51	58.27	65.15	74.53	79.49	86.93	94.10	102.37	110.64	124.42	
1.67	36	6.316	60	10.527	48.74	52.87	55.63	62.52	71.90	76.86	84.31	91.47	99.74	108.01	121.79	
1.67	48	8.421	80	14.036	44.28	48.42	51.19	58.08	67.46	72.43	79.87	87.04	95.31	103.58	117.37	
1.68	38	6.667	64	11.229	47.90	52.03	54.80	61.69	71.06	76.03	83.47	90.64	98.91	107.18	120.96	
1.70	40	7.018	68	11.930	47.06	51.20	53.96	60.85	70.23	75.20	82.64	89.81	98.08	106.35	120.13	
1.71	28	4.912	48	8.421	51.51	55.64	58.40	65.29	74.66	79.63	87.07	94.24	102.50	110.77	124.56	
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches											
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05
1.73	52	9.123	90	15.790	...	...	...	...	15.06	17.32	21.51	25.69	28.47	31.24	35.40
1.73	30	5.263	52	9.123	...	11.97	16.15	20.30	23.62	25.83	29.98	34.12	36.88	39.64	43.78
1.75	32	5.614	56	9.825	...	11.10	15.29	19.46	22.78	24.99	29.14	33.28	36.04	38.80	42.94
1.75	64	11.229	112	19.650	...	...	...	...	...	...	16.55	20.79	23.60	26.40	30.58
1.77	34	5.965	60	10.527	...	10.22	14.43	18.60	21.93	24.14	28.30	32.44	35.20	37.96	42.11
1.78	36	6.316	64	11.229	...	...	13.56	17.74	21.08	23.30	27.45	31.59	34.36	37.12	41.27
1.79	38	6.667	68	11.930	...	...	12.68	16.88	20.22	22.44	26.60	30.75	33.52	36.28	40.43
1.79	29	5.088	52	9.123	...	12.10	16.27	20.43	23.75	25.97	30.11	34.25	37.01	39.77	43.91
1.80	40	7.018	72	12.632	...	...	11.79	16.02	19.36	21.59	25.75	29.91	32.68	35.44	39.59
1.80	80	14.036	144	25.264	...	...	...	...	...	...	...	...	...	...	23.58
1.82	44	7.720	80	14.036	...	...	...	14.26	17.63	19.87	24.05	28.21	30.98	33.75	37.90
1.86	28	4.912	52	9.123	7.70	12.22	16.40	20.56	23.88	26.10	30.24	34.38	37.15	39.91	44.05
1.87	30	5.263	56	9.825	...	11.34	15.54	19.71	23.04	25.25	29.40	33.54	36.31	39.07	43.21
1.87	60	10.527	112	19.650	...	...	...	...	...	...	17.02	21.28	24.10	26.90	31.08
1.88	32	5.614	60	10.527	...	10.46	14.68	18.86	22.19	24.40	28.56	32.70	35.47	38.23	42.37
1.88	48	8.421	90	15.790	...	...	...	...	15.55	17.81	22.02	26.20	28.98	31.76	35.92
1.88	34	5.965	64	11.229	...	9.56	13.80	18.00	21.33	23.55	27.71	31.86	34.63	37.39	41.53
1.89	36	6.316	68	11.930	...	...	12.92	17.13	20.48	22.70	26.86	31.01	33.78	36.55	40.69
1.90	38	6.667	72	12.632	...	...	12.03	16.26	19.62	21.84	26.01	30.17	32.94	35.70	39.85
1.93	29	5.088	56	9.825	...	11.47	15.67	19.84	23.17	25.38	29.53	33.67	36.44	39.20	43.34
2.00	28	4.912	56	9.825	...	11.59	15.79	19.97	23.30	25.51	29.66	33.81	36.57	39.33	43.48
2.00	30	5.263	60	10.527	...	10.70	14.93	19.11	22.44	24.66	28.82	32.96	35.73	38.49	42.64
2.00	32	5.614	64	11.229	...	9.79	14.05	18.25	21.59	23.81	27.97	32.12	34.89	37.65	41.80
2.00	34	5.965	68	11.930	...	...	13.17	17.38	20.73	22.96	27.12	31.27	34.04	36.81	40.96
2.00	36	6.316	72	12.632	...	...	12.27	16.51	19.87	22.10	26.27	30.42	33.20	35.96	40.11
2.00	40	7.018	80	14.036	...	...	...	14.74	18.12	20.37	24.55	28.72	31.50	34.27	38.42
2.00	56	9.825	112	19.650	...	...	...	...	...	...	17.50	21.76	24.59	27.39	31.59
2.00	72	12.632	144	25.264	...	...	...	...	...	...	...	...	...	20.23	24.54
2.05	44	7.720	90	15.790	...	...	...	12.58	16.02	18.29	22.51	26.70	29.49	32.27	36.43
2.07	29	5.088	60	10.527	...	10.82	15.05	19.24	22.57	24.79	28.95	33.09	35.86	38.63	42.77
2.10	80	14.036	168	29.475	...	...	...	...	...	...	...	...	...	...	...
2.11	38	6.667	80	14.036	...	...	...	14.98	18.37	20.61	24.81	28.98	31.76	34.53	38.68
2.12	34	5.965	72	12.632	...	...	12.51	16.76	20.12	22.35	26.52	30.68	33.46	36.23	40.38
2.12	68	11.930	144	25.264	...	...	...	...	...	...	...	...	...	20.69	25.01
2.13	32	5.614	68	11.930	...	...	13.41	17.63	20.98	23.21	27.38	31.53	34.31	37.07	41.22
2.13	30	5.263	64	11.229	...	10.03	14.29	18.50	21.84	24.07	28.23	32.38	35.15	37.91	42.06
2.14	28	4.912	60	10.527	...	10.94	15.17	19.37	22.70	24.92	29.08	33.23	35.99	38.76	42.90
2.15	52	9.123	112	19.650	...	...	...	...	...	...	17.97	22.25	25.08	27.89	32.09
2.21	29	5.088	64	11.229	...	10.14	14.42	18.63	21.97	24.19	28.36	32.51	35.28	38.05	42.19
2.22	36	6.316	80	14.036	...	...	10.88	15.22	18.61	20.86	25.06	29.23	32.01	34.79	38.94
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches											
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.73	52	9.123	90	15.790	42.31	46.45	49.22	56.12	65.50	70.47	77.92	85.09	93.36	101.64	115.43
1.73	30	5.263	52	9.123	50.67	54.81	57.57	64.46	73.83	78.80	86.24	93.41	101.67	109.94	123.73
1.75	32	5.614	56	9.825	49.84	53.97	56.74	63.62	73.00	77.97	85.41	92.58	100.84	109.11	122.90
1.75	64	11.229	112	19.650	37.52	41.67	44.45	51.36	60.76	65.73	73.19	80.36	88.64	96.92	110.71
1.77	34	5.965	60	10.527	49.00	53.14	55.90	62.79	72.17	77.13	84.58	91.74	100.01	108.28	122.07
1.78	36	6.316	64	11.229	48.17	52.30	55.07	61.96	71.33	76.30	83.74	90.91	99.18	107.45	121.24
1.79	38	6.667	68	11.930	47.33	51.47	54.23	61.12	70.50	75.47	82.91	90.08	98.35	106.62	120.41
1.79	29	5.088	52	9.123	50.81	54.94	57.70	64.59	73.97	78.93	86.38	93.54	101.81	110.08	123.86
1.80	40	7.018	72	12.632	46.49	50.63	53.39	60.29	69.67	74.63	82.08	89.25	97.52	105.79	119.57
1.80	80	14.036	144	25.264	30.63	34.82	37.61	44.56	54.00	58.99	66.46	73.64	81.93	90.22	104.02
1.82	44	7.720	80	14.036	44.81	48.95	51.72	58.61	67.99	72.96	80.41	87.58	95.85	104.12	117.91
1.86	28	4.912	52	9.123	50.94	55.08	57.84	64.73	74.10	79.07	86.51	93.68	101.95	110.22	124.00
1.87	30	5.263	56	9.825	50.11	54.24	57.00	63.89	73.27	78.24	85.68	92.85	101.11	109.39	123.17
1.87	60	10.527	112	19.650	38.04	42.19	44.97	51.88	61.28	66.26	73.72	80.90	89.17	97.45	111.25
1.88	32	5.614	60	10.527	49.27	53.41	56.17	63.06	72.44	77.40	84.85	92.02	100.28	108.56	122.34
1.88	48	8.421	90	15.790	42.84	46.98	49.75	56.65	66.04	71.01	78.46	85.63	93.90	102.18	115.97
1.88	34	5.965	64	11.229	48.43	52.57	55.33	62.23	71.60	76.57	84.01	91.18	99.45	107.72	121.51
1.89	36	6.316	68	11.930	47.60	51.73	54.50	61.39	70.77	75.74	83.18	90.35	98.62	106.89	120.68
1.90	38	6.667	72	12.632	46.76	50.90	53.66	60.55	69.93	74.90	82.35	89.52	97.79	106.06	119.85
1.93	29	5.088	56	9.825	50.24	54.38	57.14	64.03	73.40	78.37	85.81	92.98	101.25	109.52	123.30
2.00	28	4.912	56	9.825	50.38	54.51	57.27	64.16	73.54	78.51	85.95	93.12	101.39	109.66	123.44
2.00	30	5.263	60	10.527	49.54	53.67	56.44	63.33	72.71	77.67	85.12	92.29	100.55	108.83	122.61
2.00	32	5.614	64	11.229	48.70	52.84	55.60	62.49	71.87	76.84	84.28	91.45	99.72	108.00	121.78
2.00	34	5.965	68	11.930	47.86	52.00	54.76	61.66	71.04	76.01	83.45	90.62	98.89	107.16	120.95
2.00	36	6.316	72	12.632	47.02	51.16	53.93	60.82	70.20	75.17	82.62	89.79	98.06	106.33	120.12
2.00	40	7.018	80	14.036	45.34	49.48	52.25	59.15	68.53	73.50	80.95	88.12	96.39	104.67	118.45
2.00	56	9.825	112	19.650	38.55	42.71	45.48	52.40	61.81	66.79	74.25	81.43	89.71	97.99	111.78
2.00	72	12.632	144	25.264	31.61	35.82	38.62	45.58	55.03	60.02	67.50	74.69	82.99	91.28	105.09
2.05	44	7.720	90	15.790	43.36	47.50	50.27	57.18	66.57	71.54	78.99	86.17	94.44	102.72	116.51
2.07	29	5.088	60	10.527	49.67	53.81	56.57	63.46	72.84	77.81	85.25	92.42	100.69	108.96	122.75
2.10	80	14.036	168	29.475	26.71	31.00	33.84	40.88	50.39	55.41	62.91	70.13	78.44	86.74	100.57
2.11	38	6.667	80	14.036	45.60	49.74	52.51	59.41	68.80	73.77	81.22	88.39	96.66	104.94	118.72
2.12	34	5.965	72	12.632	47.29	51.43	54.19	61.09	70.47	75.44	82.89	90.06	98.33	106.60	120.39
2.12	68	11.930	144	25.264	32.10	36.31	39.12	46.09	55.54	60.54	68.02	75.22	83.51	91.81	105.62
2.13	32	5.614	68	11.930	48.13	52.27	55.03	61.93	71.31	76.28	83.72	90.89	99.16	107.43	121.22
2.13	30	5.263	64	11.229	48.97	53.10	55.87	62.76	72.14	77.11	84.55	91.72	99.99	108.27	122.05
2.14	28	4.912	60	10.527	49.81	53.94	56.70	63.60	72.98	77.94	85.39	92.56	100.83	109.10	122.88
2.15	52	9.123	112	19.650	39.06	43.22	46.00	52.92	62.33	67.32	74.78	81.96	90.24	98.52	112.32
2.21	29	5.088	64	11.229	49.10	53.24	56.00	62.89	72.27	77.24	84.69	91.86	100.13	108.40	122.19
2.22	36	6.316	80	14.036	45.86	50.01	52.77	59.68	69.06	74.03	81.48	88.66	96.93	105.20	118.99
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches											
	Length Factor*				0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05
2.25	32	5.614	72	12.632	...	...	12.74	17.00	20.37	22.60	26.78	30.94	33.72	36.49	40.64
2.25	40	7.018	90	15.790	...	...	...	13.04	16.50	18.78	23.01	27.20	30.00	32.78	36.95
2.25	64	11.229	144	25.264	...	...	...	...	...	...	...	...	...	21.15	25.49
2.27	30	5.263	68	11.930	...	9.32	13.65	17.88	21.23	23.46	27.64	31.79	34.57	37.33	41.48
2.29	28	4.912	64	11.229	...	10.26	14.54	18.75	22.10	24.32	28.49	32.64	35.41	38.18	42.32
2.33	48	8.421	112	19.650	...	...	...	...	...	...	18.43	22.73	25.56	28.38	32.59
2.33	72	12.632	168	29.475	...	...	...	...	...	...	...	...	...	...	...
2.35	29	5.088	68	11.930	...	9.43	13.77	18.00	21.36	23.59	27.76	31.92	34.70	37.46	41.61
2.35	34	5.965	80	14.036	...	...	11.11	15.46	18.86	21.11	25.31	29.48	32.27	35.04	39.20
2.37	38	6.667	90	15.790	...	...	...	13.27	16.74	19.02	23.25	27.45	30.25	33.03	37.20
2.40	30	5.263	72	12.632	...	...	12.98	17.25	20.62	22.85	27.03	31.20	33.98	36.75	40.90
2.40	60	10.527	144	25.264	...	...	...	...	...	...	...	...	18.64	21.61	25.96
2.40	80	14.036	192	33.686	...	...	...	...	...	...	...	...	...	...	...
2.43	28	4.912	68	11.930	...	9.54	13.89	18.13	21.49	23.72	27.89	32.05	34.83	37.59	41.74
2.47	68	11.930	168	29.475	...	...	...	...	...	...	...	...	...	...	...
2.48	29	5.088	72	12.632	...	...	13.10	17.37	20.74	22.98	27.16	31.33	34.10	36.87	41.03
2.50	32	5.614	80	14.036	...	...	11.34	15.69	19.10	21.36	25.56	29.74	32.52	35.30	39.46
2.50	36	6.316	90	15.790	...	...	...	13.49	16.97	19.26	23.50	27.70	30.50	33.29	37.46
2.55	44	7.720	112	19.650	...	...	...	...	...	14.46	18.89	23.20	26.05	28.87	33.08
2.57	28	4.912	72	12.632	...	...	13.21	17.49	20.86	23.10	27.29	31.45	34.23	37.00	41.16
2.57	56	9.825	144	25.264	...	...	...	...	...	...	...	...	19.09	22.06	26.43
2.63	64	11.229	168	29.475	...	...	...	...	...	...	...	...	...	...	21.15
2.65	34	5.965	90	15.790	...	...	...	13.72	17.21	19.50	23.74	27.95	30.75	33.54	37.71
2.67	30	5.263	80	14.036	...	...	11.56	15.93	19.34	21.60	25.81	29.99	32.78	35.56	39.72
2.67	72	12.632	192	33.686	...	...	...	...	...	...	...	...	...	...	...
2.70	80	14.036	216	37.896	...	...	...	...	...	...	...	...	...	...	...
2.76	29	5.088	80	14.036	...	...	11.67	16.05	19.46	21.72	25.93	30.12	32.91	35.68	39.85
2.77	52	9.123	144	25.264	...	...	...	...	...	...	...	...	19.53	22.51	26.89
2.80	40	7.018	112	19.650	...	...	...	...	...	14.90	19.36	23.68	26.53	29.36	33.58
2.80	60	10.527	168	29.475	...	...	...	...	...	...	...	...	...	...	21.59
2.81	32	5.614	90	15.790	...	...	...	13.95	17.44	19.73	23.99	28.20	31.00	33.79	37.97
2.82	68	11.930	192	33.686	...	...	...	...	...	...	...	...	...	...	...
2.86	28	4.912	80	14.036	...	...	11.78	16.17	19.58	21.85	26.06	30.24	33.03	35.81	39.98
2.95	38	6.667	112	19.650	...	...	...	...	...	15.12	19.58	23.91	26.77	29.60	33.83
3.00	30	5.263	90	15.790	...	...	...	14.17	17.68	19.97	24.23	28.45	31.25	34.04	38.22
3.00	48	8.421	144	25.264	...	...	...	...	...	...	...	...	19.97	22.97	27.36
3.00	56	9.825	168	29.475	...	...	...	...	...	...	...	...	...	...	22.02
3.00	64	11.229	192	33.686	...	...	...	...	...	...	...	...	...	...	...
3.00	72	12.632	216	37.896	...	...	...	...	...	...	...	...	...	...	...
3.10	29	5.088	90	15.790	...	...	...	14.28	17.79	20.09	24.35	28.57	31.38	34.17	38.35
3.11	36	6.316	112	19.650	...	...	...	...	...	15.34	19.81	24.15	27.01	29.84	34.07
3.20	60	10.527	192	33.686	...	...	...	...	...	...	...	...	...	...	...
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
2.25	32	5.614	72	12.632	47.55	51.69	54.46	61.35	70.74	75.71	83.16	90.33	98.60	106.87	120.66	
2.25	40	7.018	90	15.790	43.88	48.03	50.80	57.70	67.10	72.07	79.53	86.70	94.98	103.25	117.04	
2.25	64	11.229	144	25.264	32.59	36.81	39.62	46.59	56.05	61.05	68.54	75.74	84.04	92.33	106.15	
2.27	30	5.263	68	11.930	48.39	52.53	55.30	62.19	71.57	76.54	83.99	91.16	99.43	107.71	121.49	
2.29	28	4.912	64	11.229	49.23	53.37	56.13	63.03	72.41	77.38	84.82	91.99	100.26	108.54	122.32	
2.33	48	8.421	112	19.650	39.56	43.73	46.51	53.44	62.86	67.84	75.30	82.49	90.77	99.05	112.85	
2.33	72	12.632	168	29.475	27.65	31.95	34.81	41.86	51.39	56.42	63.93	71.16	79.47	87.78	101.62	
2.35	29	5.088	68	11.930	48.52	52.66	55.43	62.33	71.71	76.68	84.12	91.29	99.57	107.84	121.63	
2.35	34	5.965	80	14.036	46.12	50.27	53.04	59.94	69.33	74.30	81.75	88.92	97.20	105.47	119.26	
2.37	38	6.667	90	15.790	44.14	48.29	51.06	57.97	67.36	72.34	79.79	86.97	95.24	103.52	117.31	
2.40	30	5.263	72	12.632	47.81	51.95	54.72	61.62	71.00	75.98	83.42	90.60	98.87	107.14	120.93	
2.40	60	10.527	144	25.264	33.08	37.30	40.11	47.10	56.56	61.57	69.06	76.26	84.56	92.86	106.68	
2.40	80	14.036	192	33.686	- - -	26.89	29.82	37.02	46.66	51.72	59.28	66.54	74.89	83.22	97.08	
2.43	28	4.912	68	11.930	48.66	52.80	55.56	62.46	71.84	76.81	84.26	91.43	99.70	107.98	121.76	
2.47	68	11.930	168	29.475	28.11	32.43	35.28	42.35	51.89	56.92	64.44	71.67	79.99	88.30	102.14	
2.48	29	5.088	72	12.632	47.94	52.09	54.85	61.75	71.14	76.11	83.56	90.73	99.00	107.28	121.06	
2.50	32	5.614	80	14.036	46.39	50.53	53.30	60.20	69.59	74.57	82.02	89.19	97.47	105.74	119.53	
2.50	36	6.316	90	15.790	44.40	48.55	51.32	58.23	67.63	72.60	80.06	87.23	95.51	103.79	117.58	
2.55	44	7.720	112	19.650	40.07	44.24	47.02	53.96	63.38	68.36	75.83	83.01	91.30	99.58	113.39	
2.57	28	4.912	72	12.632	48.08	52.22	54.99	61.89	71.27	76.24	83.69	90.86	99.14	107.41	121.20	
2.57	56	9.825	144	25.264	33.56	37.79	40.61	47.60	57.07	62.08	69.57	76.78	85.08	93.38	107.20	
2.63	64	11.229	168	29.475	28.57	32.90	35.76	42.84	52.39	57.42	64.95	72.18	80.50	88.82	102.67	
2.65	34	5.965	90	15.790	44.65	48.81	51.58	58.49	67.89	72.87	80.32	87.50	95.78	104.06	117.85	
2.67	30	5.263	80	14.036	46.65	50.79	53.56	60.47	69.86	74.83	82.29	89.46	97.73	106.01	119.80	
2.67	72	12.632	192	33.686	- - -	27.79	30.74	37.97	47.63	52.71	60.28	67.54	75.90	84.24	98.12	
2.70	80	14.036	216	37.896	- - -	22.16	25.32	32.85	42.73	47.86	55.51	62.82	72.23	79.60	93.51	
2.76	29	5.088	80	14.036	46.78	50.92	53.69	60.60	69.99	74.97	82.42	89.59	97.87	106.15	119.94	
2.77	52	9.123	144	25.264	34.04	38.28	41.10	48.10	57.58	62.59	70.09	77.30	85.60	93.91	107.73	
2.80	40	7.018	112	19.650	40.57	44.75	47.53	54.47	63.90	68.89	76.35	83.54	91.83	100.12	113.92	
2.80	60	10.527	168	29.475	29.03	33.37	36.24	43.33	52.89	57.93	65.46	72.69	81.02	89.34	103.19	
2.81	32	5.614	90	15.790	44.91	49.07	51.84	58.75	68.15	73.13	80.59	87.77	96.04	104.33	118.12	
2.82	68	11.930	192	33.686	23.63	28.19	31.15	38.41	48.09	53.18	60.76	68.03	76.39	84.73	98.61	
2.86	28	4.912	80	14.036	46.91	51.05	53.82	60.73	70.12	75.10	82.55	89.73	98.00	106.28	120.07	
2.95	38	6.667	112	19.650	40.82	45.00	47.79	54.73	64.16	69.15	76.62	83.80	92.09	100.38	114.19	
3.00	30	5.263	90	15.790	45.17	49.32	52.10	59.02	68.42	73.40	80.85	88.03	96.31	104.59	118.39	
3.00	48	8.421	144	25.264	34.52	38.77	41.59	48.60	58.09	63.10	70.60	77.81	86.12	94.43	108.26	
3.00	56	9.825	168	29.475	29.49	33.84	36.71	43.81	53.38	58.43	65.96	73.20	81.53	89.86	103.71	
3.00	64	11.229	192	33.686	24.14	28.69	31.65	38.91	48.60	53.69	61.27	68.55	76.91	85.26	99.15	
3.00	72	12.632	216	37.896	- - -	23.01	26.19	33.76	43.67	48.82	56.48	63.81	72.22	80.61	94.53	
3.10	29	5.088	90	15.790	45.30	49.45	52.23	59.15	68.55	73.53	80.99	88.17	96.44	104.73	118.52	
3.11	36	6.316	112	19.650	41.07	45.25	48.04	54.99	64.42	69.41	76.88	84.07	92.36	100.65	114.45	
3.20	60	10.527	192	33.686	24.49	29.08	32.06	39.34	49.06	54.15	61.75	69.03	77.40	85.75	99.64	
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.



SELECTION



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches										
	Driver		Driven		966-14M	1190-14M	1400-14M	1610-14M	1778-14M	1890-14M	2100-14M	2310-14M	2450-14M	2590-14M	2800-14M
	No. of Teeth	Pitch Dia. Inches	No. of Teeth	Pitch Dia. Inches											
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05
3.21	28	4.912	90	15.790	...	...	...	14.40	17.91	20.21	24.47	28.69	31.50	34.29	38.48
3.23	52	9.123	168	29.475	...	...	...	...	...	...	...	...	...	...	22.46
3.27	44	7.720	144	25.264	...	...	...	...	...	...	...	17.29	20.41	23.42	27.82
3.29	34	5.965	112	19.650	...	...	...	...	...	15.56	20.04	24.39	27.25	30.09	34.32
3.38	64	11.229	216	37.896	...	...	...	...	...	...	...	...	...	...	...
3.43	56	9.825	192	33.686	...	...	...	...	...	...	...	...	...	...	...
3.50	32	5.614	112	19.650	...	...	...	...	13.25	15.77	20.27	24.62	27.49	30.33	34.56
3.50	48	8.421	168	29.475	...	...	...	...	...	...	...	...	...	...	22.89
3.60	40	7.018	144	25.264	...	...	...	...	...	...	...	17.71	20.85	23.86	28.28
3.69	52	9.123	192	33.686	...	...	...	...	...	...	...	...	...	...	...
3.73	30	5.263	112	19.650	...	...	...	...	13.46	15.99	20.50	24.85	27.72	30.57	34.81
3.79	38	6.667	144	25.264	...	...	...	...	...	...	...	17.92	21.06	24.09	28.51
3.82	44	7.720	168	29.475	...	...	...	...	...	...	...	...	...	...	23.32
3.86	29	5.088	112	19.650	...	...	...	...	13.57	16.10	20.61	24.97	27.84	30.69	34.93
3.86	56	9.825	216	37.896	...	...	...	...	...	...	...	...	...	...	...
4.00	28	4.912	112	19.650	...	...	...	...	13.67	16.21	20.72	25.09	27.96	30.81	35.05
4.00	36	6.316	144	25.264	...	...	...	...	...	...	...	18.13	21.28	24.31	28.74
4.00	48	8.421	192	33.686	...	...	...	...	...	...	...	...	...	...	...
4.20	40	7.018	168	29.475	...	...	...	...	...	...	...	...	...	18.87	23.75
4.24	34	5.965	144	25.264	...	...	...	...	...	...	...	18.34	21.50	24.53	28.97
4.36	44	7.720	192	33.686	...	...	...	...	...	...	...	...	...	...	...
4.42	38	6.667	168	29.475	...	...	...	...	...	...	...	...	...	19.08	23.97
4.50	32	5.614	144	25.264	...	...	...	...	...	...	...	18.55	21.72	24.76	29.20
4.50	48	8.421	216	37.896	...	...	...	...	...	...	...	...	...	...	...
4.67	36	6.316	168	29.475	...	...	...	...	...	...	...	...	...	19.28	24.18
4.80	30	5.263	144	25.264	...	...	...	...	...	...	...	18.76	21.93	24.98	29.43
4.80	40	7.018	192	33.686	...	...	...	...	...	...	...	...	...	...	...
4.91	44	7.720	216	37.896	...	...	...	...	...	...	...	...	...	...	...
4.94	34	5.965	168	29.475	...	...	...	...	...	...	...	...	...	19.48	24.39
4.97	29	5.088	144	25.264	...	...	...	...	...	...	...	18.86	22.04	25.09	29.54
5.05	38	6.667	192	33.686	...	...	...	...	...	...	...	...	...	...	...
5.14	28	4.912	144	25.264	...	...	...	...	...	...	...	18.97	22.15	25.20	29.66
5.25	32	5.614	168	29.475	...	...	...	...	...	...	...	...	...	19.69	24.61
5.33	36	6.316	192	33.686	...	...	...	...	...	...	...	...	...	...	...
5.40	40	7.018	216	37.896	...	...	...	...	...	...	...	...	...	...	...
5.60	30	5.263	168	29.475	...	...	...	...	...	...	...	...	...	19.89	24.82
5.65	34	5.965	192	33.686	...	...	...	...	...	...	...	...	...	...	...
5.65	38	6.667	216	37.896	...	...	...	...	...	...	...	...	...	...	...
5.79	29	5.088	168	29.475	...	...	...	...	...	...	...	...	...	19.99	24.93
6.00	28	4.912	168	29.475	...	...	...	...	...	...	...	...	...	20.09	25.03
6.00	32	5.614	192	33.686	...	...	...	...	...	...	...	...	...	...	...
6.00	36	6.316	216	37.896	...	...	...	...	...	...	...	...	...	...	...
6.35	34	5.965	216	37.896	...	...	...	...	...	...	...	...	...	...	...
6.40	30	5.263	192	33.686	...	...	...	...	...	...	...	...	...	...	...
6.62	29	5.088	192	33.686	...	...	...	...	...	...	...	...	...	...	...
6.75	32	5.614	216	37.896	...	...	...	...	...	...	...	...	...	...	...
6.86	28	4.912	192	33.686	...	...	...	...	...	...	...	...	...	...	...
Length Factor*					0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05	1.05

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.



14MM Pitch HT200 Belt Drive Selection Table

Speed Ratio	Sprocket Combinations				Center Distance, Inches											
	Driver		Driven		3150-14M	3360-14M	3500-14M	3850-14M	4326-14M	4578-14M	4956-14M	5320-14M	5740-14M	6160-14M	6860-14M	
	No. of teeth	Pitch Dia. Inches	No. of teeth	Pitch Dia. Inches												
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
3.21	28	4.912	90	15.790	45.42	49.58	52.36	59.28	68.68	73.66	81.12	88.30	96.58	104.86	118.66	
3.23	52	9.123	168	29.475	29.95	34.30	37.18	44.30	53.88	58.92	66.46	73.71	82.04	90.37	104.23	
3.27	44	7.720	144	25.264	35.00	39.25	42.08	49.09	58.59	63.61	71.11	78.33	86.64	94.95	108.78	
3.29	34	5.965	112	19.650	41.32	45.51	48.30	55.24	64.67	69.67	77.14	84.33	92.62	100.91	114.72	
3.38	64	11.229	216	37.896	---	23.85	27.05	34.66	44.60	49.77	57.45	64.79	73.21	81.61	95.55	
3.43	56	9.825	192	33.686	25.01	29.58	32.56	39.85	49.57	54.66	62.26	69.55	77.92	86.28	100.17	
3.50	32	5.614	112	19.650	41.57	45.76	48.55	55.50	64.93	69.93	77.40	84.59	92.88	101.17	114.98	
3.50	48	8.421	168	29.475	30.41	34.77	37.66	44.78	54.37	59.42	66.97	74.21	82.55	90.89	104.75	
3.60	40	7.018	144	25.264	35.48	39.73	42.56	49.59	59.10	64.12	71.62	78.84	87.16	95.47	109.30	
3.69	52	9.123	192	33.686	25.35	29.96	32.96	40.28	50.02	55.12	62.73	70.02	78.40	86.77	100.67	
3.73	30	5.263	112	19.650	41.82	46.01	48.80	55.75	65.19	70.18	77.66	84.85	93.15	101.44	115.25	
3.79	38	6.667	144	25.264	35.71	39.98	42.81	49.84	59.35	64.37	71.88	79.10	87.42	95.73	109.57	
3.82	44	7.720	168	29.475	30.86	35.23	38.12	45.26	54.86	59.92	67.47	74.72	83.06	91.40	105.26	
3.86	29	5.088	112	19.650	41.95	46.14	48.93	55.88	65.32	70.31	77.79	84.98	93.28	101.57	115.38	
3.86	56	9.825	216	37.896	---	24.69	27.91	35.56	45.53	50.71	58.41	65.77	74.20	82.61	96.56	
4.00	28	4.912	112	19.650	42.07	46.26	49.05	56.01	65.45	70.44	77.92	85.11	93.41	101.70	115.51	
4.00	36	6.316	144	25.264	35.95	40.22	43.05	50.08	59.60	64.62	72.13	79.36	87.67	95.99	109.83	
4.00	48	8.421	192	33.686	25.87	30.47	33.46	40.78	50.52	55.63	63.24	70.54	78.93	87.29	101.20	
4.20	40	7.018	168	29.475	31.31	35.70	38.59	45.74	55.35	60.41	67.97	75.22	83.57	91.91	105.78	
4.24	34	5.965	144	25.264	36.19	40.46	43.29	50.33	59.85	64.87	72.39	79.61	87.93	96.25	110.09	
4.36	44	7.720	192	33.686	26.30	30.91	33.91	41.24	51.00	56.11	63.73	71.03	79.43	87.80	101.71	
4.42	38	6.667	168	29.475	31.54	35.93	38.83	45.98	55.60	60.66	68.22	75.48	83.83	92.17	106.04	
4.50	32	5.614	144	25.264	36.43	40.70	43.54	50.58	60.10	65.13	72.64	79.87	88.19	96.51	110.35	
4.50	48	8.421	216	37.896	---	25.53	28.76	36.45	46.46	51.66	59.37	66.74	75.19	83.60	97.57	
4.67	36	6.316	168	29.475	31.76	36.16	39.06	46.22	55.84	60.91	68.47	75.73	84.08	92.42	106.30	
4.80	30	5.263	144	25.264	36.66	40.94	43.78	50.82	60.35	65.38	72.90	80.12	88.45	96.77	110.61	
4.80	40	7.018	192	33.686	26.73	31.35	34.36	41.70	51.48	56.60	64.22	71.53	79.93	88.30	102.22	
4.91	44	7.720	216	37.896	---	25.95	29.19	36.89	46.92	52.13	59.85	67.22	75.68	84.10	98.07	
4.94	34	5.965	168	29.475	31.99	36.39	39.29	46.46	56.08	61.15	68.72	75.98	84.33	92.68	106.56	
4.97	29	5.088	144	25.264	36.78	41.06	43.90	50.94	60.47	65.50	73.02	80.25	88.58	96.90	110.74	
5.05	38	6.667	192	33.686	26.94	31.57	34.58	41.93	51.72	56.84	64.47	71.78	80.18	88.55	102.47	
5.14	28	4.912	144	25.264	36.90	41.18	44.02	51.07	60.60	65.63	73.15	80.38	88.71	97.03	110.87	
5.25	32	5.614	168	29.475	32.22	36.62	39.53	46.69	56.33	61.40	68.97	76.23	84.59	92.93	106.81	
5.33	36	6.316	192	33.686	27.16	31.80	34.81	42.17	51.95	57.08	64.71	72.02	80.43	88.80	102.73	
5.40	40	7.018	216	37.896	---	26.36	29.62	37.34	47.38	52.59	60.33	67.71	76.17	84.59	98.57	
5.60	30	5.263	168	29.475	32.44	36.85	39.76	46.93	56.57	61.64	69.22	76.48	84.84	93.19	107.07	
5.65	34	5.965	192	33.686	27.26	31.94	34.97	42.35	52.16	57.29	64.93	72.25	80.65	89.04	102.96	
5.65	38	6.667	216	37.896	---	26.57	29.83	37.56	47.61	52.83	60.56	67.95	76.41	84.84	98.82	
5.79	29	5.088	168	29.475	32.55	36.96	39.87	47.05	56.69	61.77	69.34	76.61	84.97	93.32	107.20	
6.00	28	4.912	168	29.475	32.67	37.08	39.99	47.17	56.81	61.89	69.46	76.73	85.09	93.44	107.33	
6.00	32	5.614	192	33.686	27.59	32.24	35.25	42.63	52.43	57.56	65.20	72.52	80.92	89.31	103.23	
6.00	36	6.316	216	37.896	---	26.78	30.04	37.78	47.85	53.06	60.80	68.19	76.66	85.09	99.07	
6.35	34	5.965	216	37.896	---	26.99	30.25	38.00	48.08	53.30	61.04	68.43	76.90	85.33	99.32	
6.40	30	5.263	192	33.686	27.80	32.46	35.48	42.86	52.67	57.80	65.44	72.76	81.17	89.56	103.49	
6.62	29	5.088	192	33.686	27.79	32.49	35.53	42.93	52.75	57.89	65.54	72.86	81.28	89.66	103.60	
6.75	32	5.614	216	37.896	---	27.20	30.47	38.22	48.30	53.53	61.28	68.67	77.15	85.58	99.58	
6.86	28	4.912	192	33.686	28.01	32.67	35.70	43.09	52.90	58.04	65.68	73.01	81.42	89.81	103.74	
Length Factor*					1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10

Center distance is greater than eight times the Small Sprocket and the Large Sprocket is not flanged. Large Sprocket should be ordered with flanges as a special.

* This length correction factor must be used to determine the proper belt width.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



20MM Ratio/Center Distance Tables

Drive Ratio	Sprocket Combination				Nominal Center Distance										
	Driver		Driven		Belt Length Code Designation										
	No. Th.	Pitch Dia.	No. Th.	Pitch Dia.	2000	2500	3400	3800	4200	4600	5000	5400	5800	6200	6600
	Belt Length Factor →				0.8	0.9	0.95	1.0			1.05			1.1	
1.00	34	8.522	34	8.522	26.0	35.8	53.6	61.4	69.3	77.2	85.0	92.9	100.8	108.7	116.5
1.00	36	9.023	36	9.023	25.2	35.0	52.8	60.6	68.5	76.4	84.3	92.1	100.0	107.9	115.8
1.00	38	9.524	38	9.524	24.4	34.3	52.0	59.9	67.7	75.6	83.5	91.3	99.2	107.1	115.0
1.00	40	10.026	40	10.026	23.6	33.5	51.2	59.1	66.9	74.8	82.7	90.6	98.4	106.3	114.2
1.00	44	11.028	44	11.028	22.1	31.9	49.6	57.5	65.4	73.2	81.1	89.0	96.9	104.7	112.6
1.00	48	12.031	48	12.031	20.5	30.3	48.0	55.9	63.8	71.7	79.5	87.4	95.3	103.2	111.0
1.00	52	13.033	52	13.033	18.9	28.8	46.5	54.3	62.2	70.1	78.0	85.8	93.7	101.6	109.5
1.00	56	14.036	56	14.036	17.3	27.2	44.9	52.8	60.6	68.5	76.4	84.3	92.1	100.0	107.9
1.00	60	15.038	60	15.038	...	25.6	43.3	51.2	59.1	66.9	74.8	82.7	90.6	98.4	106.3
1.00	64	16.041	64	16.041	...	24.0	41.7	49.6	57.5	65.4	73.2	81.1	89.0	96.9	104.7
1.00	68	17.043	68	17.043	...	22.5	40.2	48.0	55.9	63.8	71.7	79.5	87.4	95.3	103.2
1.00	72	18.046	72	18.046	...	20.9	38.6	46.5	54.3	62.2	70.1	78.0	85.8	93.7	101.6
1.00	80	20.051	80	20.051	...	...	35.4	43.3	51.2	59.1	66.9	74.8	82.7	90.6	98.4
1.00	90	22.557	90	22.557	...	...	31.5	39.4	47.3	55.1	63.0	70.9	78.8	86.6	94.5
1.05	38	9.524	40	10.026	24.0	33.9	51.6	59.5	67.3	75.2	83.1	91.0	98.8	106.7	114.6
1.06	36	9.023	38	9.524	24.8	34.7	52.4	60.2	68.1	76.0	83.9	91.7	99.6	107.5	115.4
1.06	34	8.522	36	9.023	25.6	35.4	53.2	61.0	68.9	76.8	84.7	92.5	100.4	108.3	116.1
1.06	68	17.043	72	18.046	...	21.7	39.4	47.3	55.1	63.0	70.9	78.8	86.6	94.5	102.4
1.06	64	16.041	68	17.043	...	23.2	41.0	48.8	56.7	64.6	72.5	80.3	88.2	96.1	103.9
1.07	60	15.038	64	16.041	...	24.8	42.5	50.4	58.3	66.2	74.0	81.9	89.8	97.6	105.5
1.07	56	14.036	60	15.038	16.5	26.4	44.1	52.0	59.9	67.7	75.6	83.5	91.3	99.2	107.1
1.08	52	13.033	56	14.036	18.1	28.0	45.7	53.6	61.4	69.3	77.2	85.0	92.9	100.8	108.7
1.08	48	12.031	52	13.033	19.7	29.5	47.3	55.1	63.0	70.9	78.7	86.6	94.5	102.4	110.2
1.09	44	11.028	48	12.031	21.3	31.1	48.8	56.7	64.6	72.4	80.3	88.2	96.1	103.9	111.8
1.10	40	10.026	44	11.028	22.8	32.7	50.4	58.3	66.1	74.0	81.9	89.8	97.6	105.5	113.4
1.11	36	9.023	40	10.026	24.4	34.3	52.0	59.8	67.7	75.6	83.5	91.3	99.2	107.1	115.0
1.11	72	18.046	80	20.051	...	...	37.0	44.9	52.8	60.6	68.5	76.4	84.3	92.1	100.0
1.12	34	8.522	38	9.524	25.2	35.0	52.8	60.6	68.5	76.4	84.3	92.1	100.0	107.9	115.8
1.13	64	16.041	72	18.046	...	22.4	40.2	48.0	55.9	63.8	71.7	79.5	87.4	95.3	103.2
1.13	80	20.051	90	22.557	...	...	33.5	41.3	49.2	57.1	65.0	72.8	80.7	88.6	96.5
1.13	60	15.038	68	17.043	...	24.0	41.7	49.6	57.5	65.4	73.2	81.1	89.0	96.9	104.7
1.14	56	14.036	64	16.041	...	25.6	43.3	51.2	59.1	66.9	74.8	82.7	90.6	98.4	106.3
1.15	52	13.033	60	15.038	17.3	27.2	44.9	52.8	60.6	68.5	76.4	84.3	92.1	100.0	107.9
1.16	38	9.524	44	11.028	23.2	33.1	50.8	58.7	66.5	74.4	82.3	90.2	98.0	105.9	113.8
1.17	48	12.031	56	14.036	18.9	28.7	46.5	54.3	62.2	70.1	78.0	85.8	93.7	101.6	109.5
1.18	34	8.522	40	10.026	24.8	34.6	52.4	60.2	68.1	76.0	83.9	91.7	99.6	107.5	115.4
1.18	68	17.043	80	20.051	...	...	37.8	45.7	53.5	61.4	69.3	77.2	85.0	92.9	100.8
1.18	44	11.028	52	13.033	20.5	30.3	48.0	55.9	63.8	71.7	79.5	87.4	95.3	103.2	111.0
1.20	40	10.026	48	12.031	22.0	31.9	49.6	57.5	65.4	73.2	81.1	89.0	96.9	104.7	112.6
1.20	60	15.038	72	18.046	...	23.2	40.9	48.8	56.7	64.6	72.4	80.3	88.2	96.1	103.9
1.21	56	14.036	68	17.043	...	24.8	42.5	50.4	58.3	66.1	74.0	81.9	89.8	97.6	105.5
1.22	36	9.023	44	11.028	23.6	33.5	51.2	59.1	66.9	74.8	82.7	90.6	98.4	106.3	114.2
1.23	52	13.033	64	16.041	...	26.3	44.1	52.0	59.8	67.7	75.6	83.5	91.3	99.2	107.1
1.24	90	22.557	112	28.072	...	...	...	34.9	42.8	50.7	58.6	66.5	74.4	82.3	90.1
1.25	48	12.031	60	15.038	18.1	27.9	45.7	53.5	61.4	69.3	77.2	85.0	92.9	100.8	108.7
1.25	64	16.041	80	20.051	...	20.8	38.5	46.4	54.3	62.2	70.1	77.9	85.8	93.7	101.6
1.25	72	18.046	90	22.557	...	...	35.0	42.9	50.7	58.6	66.5	74.4	82.3	90.1	98.0
1.26	38	9.524	48	12.031	22.4	32.3	50.0	57.9	65.7	73.6	81.5	89.4	97.2	105.1	113.0
1.27	44	11.028	56	14.036	19.6	29.5	47.2	55.1	63.0	70.9	78.7	86.6	94.5	102.4	110.2
1.29	56	14.036	72	18.046	...	23.9	41.7	49.6	57.5	65.3	73.2	81.1	89.0	96.8	104.7

NOTES: All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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20MM Ratio/Center Distance Tables

Drive Ratio	Sprocket Combination				Nominal Center Distance											
	Driver		Driven		Belt Length Code Designation											
	No. Th.	Pitch Dia.	No. Th.	Pitch Dia.	2000	2500	3400	3800	4200	4600	5000	5400	5800	6200	6600	
	Belt Length Factor →				0.8	0.9	0.95	1.0			1.05			1.1		
1.29	34	8.522	44	11.028	24.0	33.8	51.6	59.4	67.3	75.2	83.1	90.9	98.8	106.7	114.6	
1.30	40	10.026	52	13.033	21.2	31.1	48.8	56.7	64.6	72.4	80.3	88.2	96.1	103.9	111.8	
1.31	52	13.033	68	17.043	...	25.5	43.3	51.2	59.0	66.9	74.8	82.7	90.5	98.4	106.3	
1.32	68	17.043	90	22.557	...	...	35.7	43.6	51.5	59.4	67.3	75.2	83.0	90.9	98.8
1.33	36	9.023	48	12.031	22.8	32.6	50.4	58.3	66.1	74.0	81.9	89.8	97.6	105.5	113.4	
1.33	48	12.031	64	16.041	17.2	27.1	44.8	52.7	60.6	68.5	76.4	84.2	92.1	100.0	107.9	
1.33	60	15.038	80	20.051	...	21.5	39.3	47.2	55.1	63.0	70.8	78.7	86.6	94.5	102.3	
1.36	44	11.028	60	15.038	18.8	28.7	46.4	54.3	62.2	70.1	77.9	85.8	93.7	101.6	109.4	
1.37	38	9.524	52	13.033	21.6	31.5	49.2	57.1	64.9	72.8	80.7	88.6	96.4	104.3	112.2	
1.38	52	13.033	72	18.046	...	24.7	42.5	50.3	58.2	66.1	74.0	81.9	89.7	97.6	105.5	
1.40	40	10.026	56	14.036	20.4	30.3	48.0	55.9	63.8	71.6	79.5	87.4	95.3	103.1	111.0	
1.40	80	20.051	112	28.072	...	...	28.9	36.8	44.7	52.6	60.5	68.4	76.3	84.2	92.1
1.41	64	16.041	90	22.557	...	...	36.5	44.4	52.3	60.2	68.0	75.9	83.8	91.7	99.6
1.41	34	8.522	48	12.031	23.2	33.0	50.8	58.6	66.5	74.4	82.3	90.1	98.0	105.9	113.8	
1.42	48	12.031	68	17.043	...	...	26.3	34.2	42.1	50.0	57.9	65.8	73.7	81.6	89.5
1.43	56	14.036	80	20.051	...	22.2	40.0	47.9	55.8	63.7	71.6	79.5	87.4	95.2	103.1	
1.44	36	9.023	52	13.033	22.0	31.8	49.6	57.5	65.3	73.2	81.1	89.0	96.8	104.7	112.6	
1.45	44	11.028	64	16.041	17.9	27.8	45.6	53.5	61.4	69.3	77.1	85.0	92.9	100.8	108.6	
1.47	38	9.524	56	14.036	20.7	30.6	48.4	56.3	64.1	72.0	79.9	87.8	95.6	103.5	111.4	
1.50	40	10.026	60	15.038	19.5	29.4	47.2	55.1	62.9	70.8	78.7	86.6	94.5	102.3	110.2	
1.50	48	12.031	72	18.046	...	25.4	43.2	51.1	59.0	66.9	74.7	82.6	90.5	98.4	106.3	
1.50	60	15.038	90	22.557	...	...	37.2	45.1	53.0	60.9	68.8	76.7	84.6	92.5	100.3
1.53	34	8.522	52	13.033	22.3	32.2	50.0	57.8	65.7	73.6	81.5	89.3	97.2	105.1	113.0	
1.54	52	13.033	80	20.051	...	23.0	40.8	48.7	56.6	64.5	72.4	80.2	88.1	96.0	103.9	
1.55	44	11.028	68	17.043	17.0	27.0	44.8	52.7	60.6	68.4	76.3	84.2	92.1	100.0	107.8	
1.56	36	9.023	56	14.036	21.1	31.0	48.8	56.6	64.5	72.4	80.3	88.2	96.0	103.9	111.8	
1.56	72	18.046	112	28.072	...	...	30.3	38.2	46.2	54.1	62.0	69.9	77.8	85.7	93.6
1.58	38	9.524	60	15.038	19.9	29.8	47.6	55.4	63.3	71.2	79.1	87.0	94.8	102.7	110.6	
1.60	40	10.026	64	16.041	18.6	28.6	46.4	54.3	62.1	70.0	77.9	85.8	93.7	101.5	109.4	
1.60	90	22.557	144	36.092	...	...	...	...	36.0	44.0	51.9	59.8	67.8	75.7	83.6
1.61	56	14.036	90	22.557	...	...	37.9	45.9	53.8	61.7	69.6	77.4	85.3	93.2	101.1
1.64	44	11.028	72	18.046	...	26.1	44.0	51.9	59.7	67.6	75.5	83.4	91.3	99.2	107.0	
1.65	34	8.522	56	14.036	21.5	31.4	49.1	57.0	64.9	72.8	80.7	88.5	96.4	104.3	112.2	
1.65	68	17.043	112	28.072	...	...	31.0	39.0	46.9	54.8	62.7	70.7	78.5	86.4	94.3
1.67	36	9.023	60	15.038	20.2	30.2	47.9	55.8	63.7	71.6	79.5	87.4	95.2	103.1	111.0	
1.67	48	12.031	80	20.051	...	23.7	41.5	49.4	57.3	65.2	73.1	81.0	88.9	96.8	104.7	
1.68	38	9.524	64	16.041	19.0	28.9	46.7	54.6	62.5	70.4	78.3	86.2	94.0	101.9	109.8	
1.70	40	10.026	68	17.043	17.8	27.7	45.5	53.4	61.3	69.2	77.1	85.0	92.9	100.7	108.6	
1.73	52	13.033	90	22.557	...	20.7	38.7	46.6	54.5	62.4	70.3	78.2	86.1	94.0	101.9	
1.75	64	16.041	112	2.072	...	...	31.7	39.7	47.6	55.6	63.5	71.4	79.3	87.2	95.1
1.76	34	9.023	60	15.038	20.6	30.5	48.3	56.2	64.1	72.0	79.9	87.7	95.6	103.5	111.4	
1.78	36	9.023	64	16.041	19.4	29.3	47.1	55.0	62.9	70.8	78.7	86.5	94.4	102.3	110.2	
1.79	38	9.524	68	17.043	18.1	28.1	45.9	53.8	61.7	69.6	77.5	85.4	93.2	101.1	109.0	
1.80	40	10.026	72	18.046	16.8	26.9	44.7	52.6	60.5	68.4	76.3	84.2	92.0	99.9	107.8	
1.80	80	20.051	144	36.092	...	...	...	...	37.7	45.7	53.7	61.7	69.6	77.5	85.4
1.82	44	11.028	80	20.051	...	24.4	42.3	50.2	58.1	66.0	73.9	81.8	89.7	97.5	105.4	
1.87	60	15.038	112	28.072	...	...	32.4	40.4	48.4	56.3	64.2	72.1	80.0	87.9	95.8
1.87	90	22.557	168	42.108	...	...	...	...	...	38.5	46.6	54.6	62.6	70.6	78.5
1.88	48	12.031	90	22.557	...	21.4	39.4	47.3	55.3	63.2	71.1	79.0	86.8	94.7	102.6	
1.88	34	8.522	64	16.041	19.7	29.7	47.5	55.4	63.3	71.2	79.0	86.9	94.8	102.7	110.6	
Belt Length Factor →					0.8	0.9	0.95	1.0			1.05			1.1		

NOTES: All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.
 Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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SELECTION



20MM Ratio/Center Distance Tables

Drive Ratio	Sprocket Combination				Nominal Center Distance										
	Driver		Driven		Belt Length Code Designation										
	No. Th.	Pitch Dia.	No. Th.	Pitch Dia.	2000	2500	3400	3800	4200	4600	5000	5400	5800	6200	6600
					Belt Length Factor →			0.8	0.9	0.95	1.0			1.05			1.1
1.89	36	9.023	68	17.043	18.4	28.4	46.3	54.2	62.1	70.0	77.9	85.7	93.6	101.5	109.4
1.89	38	9.524	72	18.046	17.2	27.2	45.1	53.0	60.9	68.8	76.7	84.5	92.4	100.3	108.2
2.00	34	8.522	68	17.043	18.8	28.8	46.6	54.6	62.5	70.3	78.2	86.1	94.0	101.9	109.8
2.00	36	9.023	72	18.046	17.5	27.6	45.4	53.3	61.2	69.1	77.0	84.9	92.8	100.7	108.6
2.00	40	10.026	80	20.051	...	25.1	43.0	50.9	58.8	66.7	74.6	82.5	90.4	98.3	106.2
2.00	56	14.036	112	28.072	...	...	33.1	41.1	49.1	57.0	65.0	72.9	80.8	88.7	96.6
2.00	72	18.046	144	36.092	...	...	...	30.9	39.1	47.1	55.1	63.1	71.1	79.0	86.9
2.05	44	11.028	90	22.557	...	22.1	40.1	48.1	56.0	63.9	71.8	79.7	87.6	95.5	103.4
2.10	80	20.051	168	42.108	...	...	...	...	...	40.2	48.3	56.4	64.4	72.3	80.3
2.11	38	9.524	80	20.051	...	25.4	43.4	51.3	59.2	67.1	75.0	82.9	90.8	98.7	106.6
2.12	34	8.522	72	18.046	17.8	27.9	45.8	53.7	61.6	69.5	77.4	85.3	93.2	101.1	109.0
2.12	68	17.043	144	36.092	...	...	...	31.6	39.8	47.8	55.8	63.8	71.8	79.7	87.6
2.13	90	22.557	192	48.123	...	...	...	...	...	40.9	49.1	57.2	65.2	73.2	81.2
2.15	52	13.033	112	28.072	...	...	33.8	41.8	49.8	57.8	65.7	73.6	81.5	89.4	97.3
2.22	36	9.023	80	20.051	...	25.8	43.7	51.7	59.6	67.5	75.4	83.3	91.2	99.1	107.0
2.25	40	10.026	90	22.557	...	22.7	40.8	48.8	56.7	64.6	72.6	80.5	88.4	96.2	104.1
2.25	64	16.041	144	36.092	...	...	...	32.3	40.4	48.5	56.5	64.5	72.5	80.4	88.4
2.33	48	12.031	112	28.072	...	...	34.5	42.5	50.5	58.5	66.4	74.4	82.3	90.2	98.1
2.33	72	18.046	168	42.108	...	...	...	...	33.2	41.5	49.7	57.7	65.8	73.8	81.7
2.35	34	8.522	80	20.051	...	26.1	44.1	52.0	59.9	67.9	75.8	83.7	91.5	99.4	107.3
2.37	38	9.524	90	22.557	...	23.1	41.2	49.2	57.1	65.0	72.9	80.8	88.7	96.6	104.5
2.40	60	15.038	144	36.092	...	...	...	32.9	41.1	49.2	57.3	65.2	73.2	81.2	89.1
2.40	80	20.051	192	48.123	...	...	...	...	...	42.5	50.7	58.9	67.0	75.0	83.0
2.40	90	22.557	216	54.139	...	...	...	...	...	...	43.1	51.4	59.6	67.8	76.0
2.47	68	17.043	168	42.108	...	...	...	...	33.9	42.2	50.3	58.4	66.5	74.5	82.5
2.50	36	9.023	90	22.557	...	23.4	41.5	49.5	57.5	65.4	73.3	81.2	89.1	97.0	104.9
2.55	44	11.028	112	28.072	...	...	35.1	43.2	51.2	59.2	67.1	75.1	83.0	90.9	98.8
2.57	56	14.036	144	36.092	...	...	...	33.6	41.8	49.9	58.0	66.0	73.9	81.9	89.8
2.63	64	16.041	168	42.108	...	...	...	...	34.5	42.8	51.0	59.1	67.2	75.2	83.2
2.65	34	8.522	90	22.557	...	23.7	41.9	49.9	57.8	65.7	73.7	81.6	89.5	97.4	105.3
2.67	72	18.046	192	48.123	...	...	...	...	...	35.4	43.8	52.1	60.3	68.3	76.4
2.70	80	20.051	216	54.139	...	...	...	...	...	...	44.8	53.1	61.3	69.5	77.6
2.77	52	13.033	144	36.092	...	...	...	34.2	42.5	50.6	58.7	66.7	74.7	82.6	90.6
2.80	40	10.026	112	28.072	...	...	35.8	43.9	51.9	59.9	67.9	75.8	83.7	91.7	99.6
2.80	60	15.038	168	42.108	...	...	...	...	35.2	43.5	51.7	59.8	67.9	75.9	83.9
2.82	68	17.043	192	48.123	...	...	...	...	...	36.1	44.5	52.8	60.9	69.0	77.1
2.95	38	9.524	112	28.072	...	...	36.2	44.3	52.3	60.3	68.2	76.2	84.1	92.0	99.9
3.00	48	12.031	144	36.092	...	...	26.4	34.9	43.1	51.3	59.3	67.4	75.4	83.3	91.3
3.00	56	14.036	168	42.108	...	...	...	...	35.8	44.2	52.4	60.5	68.6	76.6	84.6
3.00	64	16.041	192	48.123	...	...	...	...	...	36.7	45.1	53.4	61.6	69.7	77.8
3.00	72	18.046	216	54.139	...	...	...	...	...	...	46.1	54.4	62.7	70.8	78.9
3.11	36	9.023	112	28.072	...	...	36.5	44.6	52.6	60.6	68.6	76.5	84.5	92.4	100.3
3.18	68	17.043	216	54.139	...	...	...	...	...	...	38.1	46.7	55.1	63.3	71.5
3.20	60	15.038	192	48.123	...	...	...	...	...	37.3	45.8	54.1	62.3	70.4	78.5
3.23	52	13.033	168	42.108	...	...	...	...	36.5	44.8	53.1	61.2	69.3	77.3	85.3
3.27	44	11.028	144	36.092	...	...	27.1	35.6	43.8	52.0	60.0	68.1	76.1	84.1	92.0
3.29	34	8.522	112	28.072	...	...	36.8	44.9	53.0	61.0	69.0	76.9	84.8	92.8	100.7
3.38	64	16.041	216	54.139	...	...	...	...	...	...	38.8	47.3	55.7	64.0	72.2
3.43	56	14.036	192	48.123	...	...	...	...	...	38.0	46.4	54.8	63.0	71.1	79.2
3.50	48	12.031	168	42.108	...	...	...	...	37.1	45.5	53.7	61.9	70.0	78.0	86.0

NOTES: All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	ENGINEERING/TECHNICAL PAGES PT11-64
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20MM Ratio/Center Distance Tables

Drive Ratio	Sprocket Combination				Nominal Center Distance											
	Driver		Driven		Belt Length Code Designation											
	No. Th.	Pitch Dia.	No. Th.	Pitch Dia.	2000	2500	3400	3800	4200	4600	5000	5400	5800	6200	6600	
	Belt Length Factor →				0.8	0.9	0.95	1.0			1.05			1.1		
3.60	40	10.026	144	36.092	...	...	27.7	36.2	44.5	52.6	60.7	68.8	76.8	84.8	92.7
3.60	60	15.038	216	54.139	...	...	...	...	...	...	39.4	48.0	56.4	64.7	72.9
3.69	52	13.033	192	48.123	...	...	...	...	...	38.6	47.1	55.4	63.6	71.8	79.9
3.79	38	9.524	144	36.092	...	...	28.0	36.5	44.8	53.0	61.1	69.1	77.1	85.1	93.1
3.82	44	11.028	168	42.108	...	...	...	29.1	37.8	46.1	54.4	62.6	70.6	78.7	86.7
3.86	56	14.036	216	54.139	...	...	...	...	...	...	40.0	48.6	57.0	65.3	73.5
4.00	36	9.023	144	36.092	...	...	28.3	36.9	45.1	53.3	61.4	69.5	77.5	85.5	93.4
4.00	48	12.031	192	48.123	...	...	...	...	...	39.2	47.7	56.1	64.3	72.5	80.6
4.15	52	13.033	216	54.139	...	...	...	...	...	...	40.7	49.3	57.7	66.0	74.2
4.20	40	10.026	168	42.108	...	...	...	29.7	38.4	46.8	55.1	63.2	71.3	79.4	87.4
4.24	34	8.522	144	36.092	...	...	28.7	37.2	45.5	53.7	61.8	69.8	77.8	85.8	93.8
4.36	44	11.028	192	48.123	...	...	...	...	...	39.9	48.4	56.7	65.0	73.1	81.2
4.42	38	9.524	168	42.108	...	...	...	30.1	38.7	47.1	55.4	63.6	71.7	79.7	87.8
4.50	48	12.031	216	54.139	...	...	...	...	...	...	41.3	49.9	58.3	66.7	74.9
4.67	36	9.023	168	42.108	...	...	...	30.4	39.0	47.5	55.7	63.9	72.0	80.1	88.1
4.80	40	10.026	192	48.123	...	...	...	...	31.7	40.5	49.0	57.4	65.6	73.8	81.9
4.91	44	11.028	216	54.139	...	...	...	...	...	...	41.9	50.6	59.0	67.3	75.6
4.94	34	8.522	168	4.108	...	...	...	30.7	39.4	47.8	56.1	64.2	72.4	80.4	88.5
5.05	38	9.524	192	48.123	32.0	40.8	49.4	57.7	66.0	74.2	82.3
5.33	36	9.023	192	48.123	32.3	41.1	49.7	58.0	66.3	74.5	82.6
5.40	40	10.026	216	54.139	...	...	...	...	...	...	42.5	51.2	59.6	68.0	76.2
5.65	34	8.522	192	48.123	32.6	41.4	50.0	58.4	66.6	74.8	83.0
5.68	38	9.524	216	54.139	...	...	...	...	...	33.9	42.9	51.5	60.0	68.3	76.6
6.00	36	9.023	216	54.139	...	...	...	...	...	34.2	43.2	51.8	60.3	68.6	76.9
6.35	34	8.522	216	54.139	...	...	...	...	...	34.5	43.5	52.1	60.6	69.0	77.2
Belt Length Factor →					0.8	0.9	0.95	1.0			1.05			1.1		

NOTES: All 20MM HTD Drives operating above 1000 RPM may require a sound dampening guard.
Belt lengths of 5200, 5600, 6000, and 6400 are also available. Interpolate center distance.



Overhung Load Calculations

Overhung load is an important consideration for drive design. Motor and reducer bearings are rated for specific load capacities to achieve calculated life. If the drive design is such that bearing loads are exceeded, life will be proportionally reduced. Likewise, if the drive exerts a lesser load on the bearings, life will be extended. Needless to say, drive design that keeps bearing loads below ratings can pay big dividends.

BELT PULL: The basis for overhung load calculation is belt pull. Belt pull is the result of torque being transmitted when the belt exerts a pull on the sprocket diameter.

EXAMPLE: 5 horsepower at 200 RPM is 1,575 inch-pounds of torque. If a 6 inch diameter sprocket is used, (3 inch radius), $1,575/3 = 525$ pounds effective belt pull is required. Note that if a larger diameter sprocket is used, belt pull is reduced accordingly.

Belt pull can be calculated using the following formula:

$$\text{Belt Pull (lbs)} = \frac{126,000 \times \text{DHP} \times \text{F}}{\text{RPM} \times \text{PD}}$$

Where: DHP = Design Horsepower
 F = Drive Factor (1.3 for sync. belt)
 RPM = Shaft RPM
 PD = Pitch Diameter of Sprocket

BEARING LOAD: Belt pull translates into bearing load and is greatly affected by the location of the sprocket on the shaft. Fig. 1 shows an example of what happens as the distance between the centerline of belt pull and the adjacent bearing is extended.

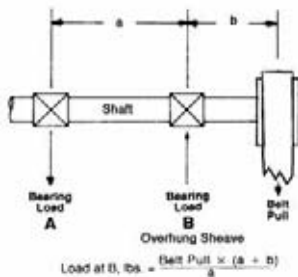


Fig. 1

a	b	Belt Pull	Bearing Load "B"
10 in.	1 in.	500 lbs.	550 lbs.
10 in.	5 in.	500 lbs.	750 lbs.

Now consider the same situation for a motor or gearbox. Referring to Fig. 2, it should be obvious that the HT/HTD sprocket should be mounted as close as possible to the face of the gearbox.

As the distance between the gearbox face and HT/HTD sprocket increases, the bearing load is also increased, which leads to a reduction in bearing life.

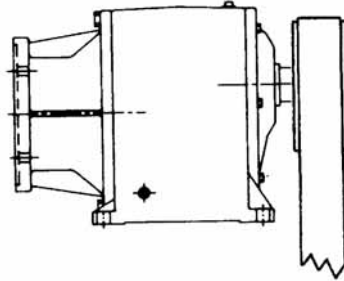


Fig. 2

Another warning from gearbox manufacturers is that the centerline of belt pull should not extend beyond the end of the shaft. Given a choice of a small diameter, wide face-width drive design, or a larger diameter, narrower face-width alternative, the latter would be preferable if bearing life is an important consideration.

DRIVE DESIGN CONSIDERATIONS

For any given application, there are usually several possible drive alternatives. In some cases, the selection with the smallest diameter sprockets might be the least expensive. As can be seen from the previous discussion, this alternative could be a bad choice. Smaller diameter sprockets lead to higher belt pull; their greater width is also more sensitive to misalignment.



HT/HTD Drive Installation

SPROCKET INSTALLATION

1. Thoroughly inspect the bore of the sprocket and the tapered surface of the bushing. Any paint, dirt, oil or grease must be removed.
2. Assemble bushing into sprocket. Loosely insert the screws into assembly. At least one sprocket must have flanges.
3. With key in keyseat of shaft, slide sprocket to its desired position with screw heads to the outside. If it is hard to slide the bushing onto the shaft, check shaft for burrs, etc.
4. Line up assembly so as not to misalign belts and tighten screws evenly and progressively. Apply the recommended torque to screws.

SPROCKET ALIGNMENT

HT/HTD sprocket alignment and parallelism of the shafts are very important. Proper alignment helps to equalize the load across the entire belt width, thereby reducing wear and extending belt life.

Place a straightedge against the outside edge of the sprockets and move sprockets until the straightedge touches the two outside and two inside edges of the sprockets. The straightedge should cross the sprockets as close to the shafts as possible. A string can be used if a straightedge is not available. Remember the string should contact at four points as explained above. (See illustration on page PT11-66.

After aligning the sprockets, check the rigidity of the supporting framework. Shafts should be well supported to prevent distortion and a resulting change in the center distance under load. Do not use spring-loaded or weighted idlers. Idler sprockets or pulleys must be locked into position after adjusting belt tension.

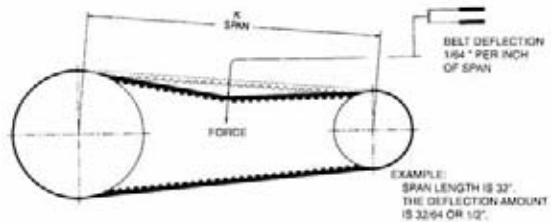
BELT INSTALLATION & TENSIONING

Do not pry or otherwise force the belt onto the sprockets, as this can result in permanent damage to the belt. Reduce the center distance between the pulleys so that the belt can be easily installed.

HT 200 drives must be properly tensioned. If the belt is too loose, it may jump teeth when heavier loads are applied. If the belt is too tight, belt life will suffer, and bearings will be unnecessarily overloaded. Improper tension can result in excessive drive noise.

Tensioning procedure: First, measure the span length and calculate the deflection distance of $1/64$, per inch span (see illustration).

Use the formula method on page PT11-66 to calculate recommended deflection forces.

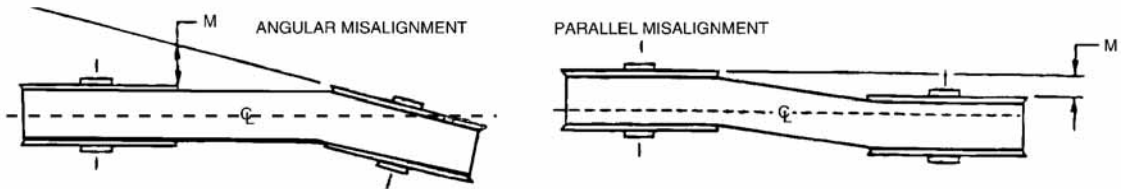


Apply a force (from the table) at the center of the span. Measure the deflection with this force applied. Move the center distance until the proper deflection is obtained.

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19
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Drive Alignment



Good tracking of synchronous belts on their sprockets depends upon alignment to within 1/4 degree. This translates to a maximum "M" dimension of 0.05" per foot center distance.

Drive Tensioning

Formula Method

The formula method for determining belt tension may be used for greater accuracy, or for applications that fall out of guidelines given for the Simplified Method on page PT11-65.

Step 1. Calculate Min. Installation Tension:

$$\text{Formula 1: } T = \frac{20 (\text{HP}) + mV^2}{V}$$

Where: HP = Horsepower

$$V = \frac{\text{Belt Velocity (in FPM)}}{1000}$$

m = Value in Table 2.

$$\text{Belt Velocity} = \text{PD} \times \text{RPM} \times .262$$

(PD = Pitch Dia. in inches)

***Important!** If formula calculation for "T" is less than "Min T. Value" (Table 2) use the "Min T. Value" for T. Always use the greater T value; i.e. from T Formula 1 or Table 2.

Step 2. Calculate Deflection Forces:

$$\text{Formula 2: } \text{Min Force} = \frac{1.0T + (K/L)Y}{16} \text{ (lbs)}$$

$$\text{Formula 3: } \text{Max Force} = \frac{1.1T + (K/L)Y}{16} \text{ (lbs)}$$

Note: For used belt, use 0.7T to 0.8T instead of the 1.0T and 1.1T for new belts.

T = Static tension, lbs

K = Span length, inches

L = Belt length, inches

Y = Factor from Table 2.

Step 3. Adjust tension per Simplified Method Procedure on page PT11-65 using deflection forces from Step 2.

Table 2

Belt		Factors		Min. T
Pitch	Width	m	Y	Value*
5MM	15MM	0.28	24.9	14.1
5MM	25MM	0.47	41.5	23.4
8MM	20MM	0.58	34.2	18.5
8MM	30MM	0.88	51.3	30.0
8MM	50MM	1.46	85.5	52.0
8MM	85MM	2.45	145.3	94.5
14MM	40MM	1.78	93.0	76.5
14MM	55MM	2.44	127.9	120.0
14MM	85MM	3.77	197.7	205.5
14MM	115MM	5.11	267.5	291.0
14MM	170MM	7.55	395.4	447.0
20MM	115MM	7.24	367.0	391.5
20MM	170MM	10.71	542.5	603.0
20MM	230MM	14.49	734.0	834.0
20MM	290MM	18.27	925.4	1065.0
20MM	340MM	21.42	1085.0	1257.5



DODGE Software

Computer Selection of DODGE Synchronous Belt Drives

VIA-SYNC®

Synchronous Belt Drive Selection

For any given synchronous drive application, there may be several DODGE HT/HTD* or DODGE DYNA-SYNC® product combinations that could satisfy the requirements. Finding the best drive can be a time-consuming and frustrating task.

The DODGE VIA-SYNC program provides selections for DYNA-SYNC (timing) and HT/HTD drives and includes both TAPER-LOCK® and QD* type sprockets. All relevant data for up to ten alternative drive selections is presented in a format that allows quick and accurate analysis, whether based upon lowest price, minimum bearing load, highest service factor, etc.

VIA-SYNC calculates speed up drives or drives for non-standard motor speeds. The most appropriate selection can then be specified using the computer printout, which contains sprocket, bushing and belt sizes and part numbers.

VIA-SYNC has the capability of sharing data with DODGE T-A DISCOVERY™ or DODGE SCD DISCOVERY™ programs.

DRIVE TROUBLESHOOTING

Problem	Cause	Remedy
Unusual Noise	Misaligned drive Hi or Low belt tension Backside idler Worn sprocket Bent sprocket flange Excessive belt speed Incorrect belt profile Subminimal spkt. dia. Excessive load Weak mntg. structure	Re-adjust alignment Adjust to recommended value Use inside idler Replace sprocket Replace or repair Redesign drive Replace with DODGE belt Redesign with lager spkts. Use higher capacity drive
Loss of Belt Tension	Weak mntg. structure Excessive spkt. wear Fixed center drive Excessive debris Excessive load Subminimal spkt. dia. Drive running hot Belt degradation	Reinforce mounting structure Use wear-resistant sprockets Install inside idler Install adequate drive guard. Use higher capacity drive Redesign drive Use heat fingers on hot shaft Protect from excessive heat
Belt Edge Wear	Damaged flanges Low belt tension Poor tracking Guard interference	Repair or replace sprocket Adjust to recommended value Correct alignment Remove obstruction, add idler
Pre-mature Tooth Wear	Improper tension Poor alignment Wrong belt type Worn sprocket Damaged sprocket Excessive load Dirt or debris Sprocket wobble	Correct drive tension Correct drive alignment Use correct DODGE belt Replace Replace Use higher capacity drive Install adequate drive guard Correct bushing installation

Problem	Cause	Remedy
Tooth Shear	Shock loads Few teeth in mesh Worn sprocket Backside idler Wrong belt profile Low belt tension	Use higher capacity drive Redesign drive Replace Use inside idler Use correct DODGE belt Adjust to recommended value
Tensile Break	Shock load Subminimal spkt. dia. Debris in drive Improper belt handling, storage	Use higher capacity drive Redesign with larger spkts. Install adequate drive guard Do not crimp belt or subject it to sharp bends
Belt Cracking	Subminimal spkt. dia. Backside idler Start-up temp below 180 degrees F Extended exposure to harsh chemicals	Redesign with larger spkts. Install inside idler Preheat drive before start-up Protect drive
Bearing Failure	Excessive belt tension Drive misalignment Subminimal spkt. dia.	Adjust to recommended value Re-adjust alignment Redesign with larger spkts.
Vibration	Wrong belt profile Hi or Low belt tension Loose key or bushing Loose mounting structure	Install correct DODGE belt Adjust to recommended value Install per instructions Reinforce or tighten
Belt not Tracking	Misalignment Long center distance Mtg. structure bending	Re-adjust alignment Carefully adjust alignment Reinforce mounting structure

FEATURES/BENEFITS PAGES PT11-2	SPECIFICATIONS: SPROCKETS PAGES PT11-4	SPECIFICATIONS: BELTS PAGES PT11-17	SELECTION PAGES PT11-19
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NOTES



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



Sprockets for Roller Chain

Features/Benefits. PT12-2

Specification: TAPER-LOCK, A, B:

- #35 Pitch PT12-3
- #41 Pitch PT12-5
- #40 Pitch PT12-6
- #50 Pitch PT12-9
- #60 Pitch PT12-12
- #80 Pitch PT12-15
- #100 Pitch PT12-18
- #120 Pitch PT12-19
- #140 Pitch PT12-21
- #160 Pitch PT12-22
- #180 Pitch PT12-24
- #200 Pitch PT12-24
- #240 Pitch PT12-25
- Double-Single Sprockets. PT12-26
- Extended Pitch Sprockets. PT12-27

Selection:

- Procedure, Example PT12-28
- Basic Horsepower Ratings PT12-32

Related Products:

- Tensioner Frame PT12-40
- Idler Sprockets PT12-40
- Chain Tools. PT12-41

Engineering/Technical

- Custom TAPER-LOCK Sprocket Data PT12-42
- Sprocket Pitch Diameters PT12-43
- Sprocket and Chain Dimensions. PT12-44
- Installation & Maintenance PT12-45

Part Number Index. INDEX-1

Keyword Index. INDEX-29



Sprockets for Roller Chain

FEATURING TAPER-LOCK SPROCKETS . . .

Shaft Ready

For low-speed roller chain drives, DODGE TAPER-LOCK sprockets are the perfect solution for extra muscle.

Advantages

- Features Compact design
- Installs easily
- Fits shaft securely
- Comes in wide range of stock sizes
- Allows exact ratio/rating required for your operation
- Installation-ready, right from the box
- Meets ANSI standards
- B-reborable and A-plate sprockets available



Double Strand TAPER-LOCK Sprocket



Single TAPER-LOCK Sprocket



Double-Single TAPER-LOCK Sprocket

Hardened Teeth at No Extra Cost

- Through 25 teeth
- #40 through #160
- No price premium

HARDENED TOOTH SPROCKETS LIKE THIS



With Hardened Tooth Sprockets

AVOID SPROCKET WEAR LIKE THIS



Without Hardened Tooth Sprockets

Advantages

- Offers twice the wear life
- Saves downtime and replacement costs
- Equalizes wear between large and small sprocket
- Offers greater resistance against abrasive wear
- Extends chain life

Other Sprocket Types from Dodge



B-reborable Sprockets



A-plate Sprockets

Simple Mounting

Easy On

- Insert bushing into sprocket.
- Match holes (not threads).
- Put screws into holes that are farthest apart.
- Slip unit onto shaft.
- Set drive alignment and tighten screws.



Easy Off

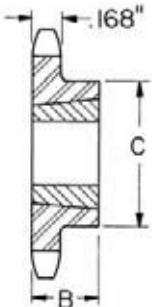
- Take both screws out entirely.
- Insert one screw into hole that is threaded in the bushing only.
- Use as jackscrew to disengage bushing.



No. **35** for 3/8" Pitch Single Strand Chain

TAPER-LOCK SPROCKETS

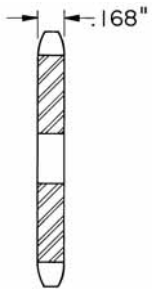
No. Teeth	Spkt. O.D.	Description	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
18	2.352	35BTL18-1008	100350	.5	1.88 \diamond	1/2	1	.88
19	2.472	35BTL19-1008	100351	.6	1.81			
20	2.593	35BTL20-1008	100352	.7	1.94			
21	2.713	35BTL21-1008	100353	.8	2.06	1/2	1-1/4	1.0
22	2.833	35BTL22-1210	100354	.9	2.38 \diamond			
23	2.954	35BTL23-1210	100343	1.0	2.50 \diamond			
24	3.074	35BTL24-1210	100355	1.0	2.44			
25	3.194	35BTL25-1210	100344	1.3	2.44	1/2	1-11/16	1.0
26	3.314	35BTL26-1610	100356	1.3	2.88 \diamond			
28	3.553	35BTL28-1610	100345	1.3	2.88			
30	3.793	35BTL30-1610	100357	1.4	3.13			
32	4.032	35BTL32-1610	100358	1.5	3.25			
35	4.392	35BTL35-1610	100359	1.6	3.25			
36	4.511	35BTL36-1610	100346	1.6	3.25	1/2	1-11/16	1.0
40	4.990	35BTL40-1610	100360	2.1	3.25			
42	5.229	35BTL42-1610	100347	2.2	3.25			
45	5.588	35BTL45-1610	100361	2.3	3.25			
48	5.946	35BTL48-1610	100362	2.5	3.25			
54	6.663	35BTL54-1610	100363	2.8	3.25			
60	7.380	35BTL60-1610	100364	3.2	3.25	1/2	1-11/16	1.0
70	8.575	35BTL70-1610	100365	3.3	3.25			
72	8.814	35BTL72-1610	100348	4.1	3.25			
80	9.770	35BTL80-1610	100366	4.2	3.25			
84	10.247	35BTL84-1610	100349	5.1	3.25			
96	11.680	35BTL96-1610	100367	6.2	3.25			
112	13.590	35BTL112-1610	100368	8.0	3.25			



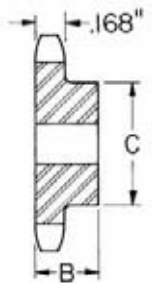
TYPE BTL

\diamond Hub grooved for chain clearance.

REBORABLE SPROCKETS—TYPE B



TYPE A



TYPE B

No. Teeth	Spkt. O.D.	Descr.	Part No.	Wt.	Bore		B	C Hub Dia.	PLATE—TYPE A			
					Stock	Max.			Descr. No.	Part No.	Wt.	Stock Bore
9	1.256	35B9	105320	.1	3/8	3/8	.75	.84\diamond	.....	.....	.....	.....
10	1.379	35B10	105300	.1	3/8	9/16	.75	.79\diamond	.....	.....	.....	.....
11	1.502	35B11	105301	.1	3/8	5/8	.75	1.06\diamond	.....	.....	.....	.....
12	1.625	35B12	105302	.2	1/2	3/4	.75	1.22\diamond	.....	.....	.....	.....
13	1.746	35B13	105303	.2	1/2	3/4	.75	1.25\diamond	.....	.....	.....	.....
14	1.868	35B14	105304	.3	1/2	3/4	.75	1.25	.....	.....	.....	.....
15	1.989	35B15	105305	.3	1/2	13/16	.75	1.38	35A15	103001	.1	1/2
16	2.110	35B16	105306	.4	1/2	7/8	.75	1.47	35A16	103002	.1	1/2
17	2.231	35B17	105307	.4	1/2	1	.75	1.63	35A17	103003	.2	1/2
18	2.352	35B18	105001	.5	1/2	1-1/16	.75	1.75	35A18	103004	.2	1/2
19	2.472	35B19	105002	.6	1/2	1-3/16	.75	1.88	35A19	103005	.2	1/2
20	2.593	35B20	105003	.7	1/2	1-3/16	.75	1.94	35A20	103006	.2	1/2
21	2.713	35B21	105004	.8	1/2	1-1/4	.75	2.13	35A21	103007	.2	1/2
22	2.833	35B22	105005	.8	1/2	1-1/4	.75	2.13	35A22	103008	.2	1/2
23	2.954	35B23	105321	.9	1/2	1-1/4	.75	2.13	35A23	103009	.3	1/2
24	3.074	35B24	105006	.9	1/2	1-1/4	.88	2.13	35A24	103010	.3	1/2
25	3.194	35B25	105322	.9	1/2	1-1/4	.88	2.13	35A25	103011	.3	1/2
26	3.314	35B26	105007	.9	1/2	1-1/2	1	2.25	35A26	103012	.4	1/2
28	3.553	35B28	105323	1.0	1/2	1-1/2	1	2.25	35A28	103013	.4	1/2
30	3.793	35B30	105008	1.1	1/2	1-1/2	1	2.25	35A30	103014	.5	1/2
32	4.032	35B32	105009	1.1	1/2	1-1/2	1	2.25	35A32	103015	.5	1/2
35	4.392	35B35	105010	1.6	1/2	1-1/2	1	2.25	35A35	103255	.7	1/2
36	4.511	35B36	105324	1.7	1/2	1-1/2	1	2.25	35A36	103016	.7	1/2
40	4.990	35B40	105011	1.8	5/8	1-1/2	1	2.25	35A40	103017	.9	5/8
42	5.229	35B42	105325	1.9	5/8	1-1/2	1	2.25	35A42	103018	1.0	5/8
45	5.588	35B45	105012	2.0	5/8	1-1/2	1	2.25	35A45	103019	1.1	5/8
48	5.946	35B48	105013	2.1	5/8	1-1/2	1	2.25	35A48	103020	1.2	5/8
54	6.663	35B54	105326	2.4	5/8	1-1/2	1	2.25	35A54	103021	1.5	5/8
60	7.380	35B60	105327	2.8	3/4	1-1/2	1	2.25	35A60	103022	1.9	3/4
36	8.575	35B70	105328	3.7	3/4	1-1/2	1	2.25	35A70	103260	2.5	3/4
72	8.814	35B72	105329	3.9	3/4	1-1/2	1	2.25	35A72	103023	2.7	3/4
80	9.770	35B80	105330	4.5	3/4	1-1/2	1	2.25	35A80	103263	3.3	3/4
84	10.247	35B84	105331	4.9	3/4	1-1/2	1	2.25	35A84	103024	3.7	3/4
96	11.680	35B96	105332	6.0	3/4	1-1/2	1	2.25	35A96	103264	4.7	3/4
112	13.590	35B112	105333	6.6	3/4	1-1/2	1	2.25	35A112	103025	6.6	3/4

\diamond Hub grooved for chain clearance.

See List Price Book MLP for alteration charges.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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SPECIFICATION



No. 35-2 for 3/8" Pitch Double Strand Chain

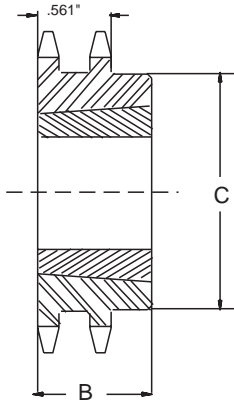
DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

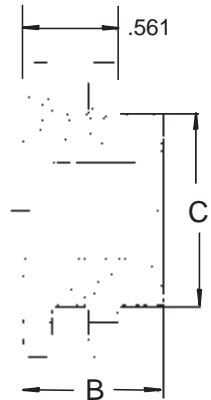
Engineering



TYPE BTL

TAPER-LOCK-DOUBLE								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	Bore Range		B	C Hub Dia.
					Min.	Max.		
19	2.472	D35BTL19H-1008	101150	.6	1/2	1	0.88	1.81
20	2.593	D35BTL20H-1008	101151	.8	1/2	1	0.88	1.88
21	2.713	D35BTL21H-1008	101152	1.4	1/2	1	0.88	1.81
22	2.833	D35BTL22H-1008	101153	1.7	1/2	1	0.88	1.81
24	3.074	D35BTL24H-1210	101154	1.8	1/2	1-1/4	1.00	2.47
26	3.314	D35BTL26-1210	101155	2.0	1/2	1-1/4	1.00	2.47
30	3.793	D35BTL30-1610	101156	1.8	1/2	1-11/16	1.00	3.06
32	4.032	D35BTL32-1610	101157	2.0	1/2	1-11/16	1.00	3.25
35	4.392	D35BTL35-1610	101158	2.3	1/2	1-11/16	1.00	3.25
40	4.990	D35BTL40-1610	101159	2.9	1/2	1-11/16	1.00	3.25
45	5.588	D35BTL45-1610	101160	3.2	1/2	1-11/16	1.00	3.25
48	5.946	D35BTL48-1610	101161	3.5	1/2	1-11/16	1.00	3.25
54	6.663	D35BTL54-1610	101162	3.9	1/2	1-11/16	1.00	3.25
70	8.575	D35BTL70-1610	101164	6.3	1/2	1-11/16	1.00	3.25
80	9.770	D35BTL80-1610	101165	7.9	1/2	1-11/16	1.00	3.25
96	11.680	D35BTL96-1610	101166	9.9	1/2	1-11/16	1.00	3.25
112	13.590	D35BTL112-1610	101167	10.9	1/2	1-11/16	1.00	3.25

+ "H" suffix indicates Hardened Teeth.



TYPE B

REBORABLE SPROCKETS-TYPE B								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.
					Stock	Max.		
12	1.630	D35B12H	105525	.32	1/2	9/16	1.25	0.98
13	1.750	D35B13H	105526	.36	1/2	3/4	1.25	1.13
14	1.870	D35B14H	105527	.44	1/2	13/16	1.25	1.25
15	1.990	D35B15H	105181	.56	1/2	7/8	1.25	1.41
16	2.110	D35B16H	105182	.64	1/2	15/16	1.25	1.47
17	2.230	D35B17H	105183	.74	1/2	1-1/16	1.25	1.59
18	2.350	D35B18H	105184	.84	1/2	1-1/8	1.25	1.72
19	2.470	D35B19H	105528	.96	1/2	1-1/4	1.25	1.84
20	2.590	D35B20H	105529	1.08	1/2	1-5/16	1.38	1.97
21	2.710	D35B21H	105530	1.24	1/2	1-5/8	1.38	2.06
22	2.830	D35B22H	105531	1.42	1/2	1-7/16	1.38	2.19
23	2.950	D35B23H	105532	1.54	1/2	1-1/2	1.38	2.31
24	3.070	D35B24H	105533	1.62	1/2	1-5/8	1.38	2.44
25	3.190	D35B25H	105534	1.66	1/2	1-11/16	1.38	2.56
26	3.310	D35B26	105535	1.98	1/2	3/4	1.38	2.69
30	3.790	D35B30	105536	2.34	1/2	2	1.38	3.16
36	4.510	D35B36	105537	3.00	11/16	1-3/4	1.38	2.50
42	5.230	D35B42	105538	3.80	11/16	1-3/4	1.38	2.50
48	5.950	D35B48	105539	4.66	11/16	1-3/4	1.38	2.50
52	6.430	D35B52	105540	5.40	11/16	1-3/4	1.38	2.50
60	7.380	D35B60	105541	6.84	11/16	1-3/4	1.38	2.50
68	8.340	D35B68	105542	10.01	15/16	2-3/8	1.50	3.50
72	8.810	D35B72	105543	11.04	15/16	2-3/8	1.50	3.50
76	9.290	D35B76	105544	11.94	15/16	2-3/8	1.50	3.50
84	10.250	D35B84	105545	14.98	15/16	2-3/8	1.50	3.50
95	11.560	D35B95	105546	17.42	15/16	2-3/8	1.50	3.50
96	11.680	D35B96	105547	18.14	15/16	2-3/8	1.50	3.50
102	12.400	D35B102	105548	19.92	1	2-3/8	1.50	3.50

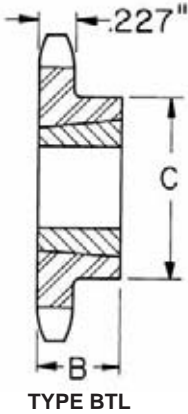
+ "H" suffix indicates Hardened Teeth.

See List Price Book MLP for alteration charges.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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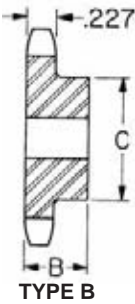


No. **41** for 1/2" Pitch Single Strand Chain



TAPER-LOCK SPROCKETS								
No. Teeth	Spkt. O.D.	Description	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
14	2.490	41BTL14-1008	100369	.5	1.87 \diamond	1/2	1	.88
15	2.652	41BTL15-1008	100370	.6	1.00			
16	2.814	41BTL16-1008	100371	.7	2.00			
17	2.974	41BTL17-1210	100372	.8	2.38 \diamond	1/2	1-1/4	1.0
18	3.136	41BTL18-1210	100373	1.0	2.38 \diamond			
19	3.292	41BTL19-1210	100374	1.2	2.50			
20	3.457	41BTL20-1610	100375	1.3	2.88 \diamond	1/2	1-11/16	1.0
21	3.618	41BTL21-1610	100376	1.4	3.00 \diamond			
22	3.778	41BTL22-1610	100377	1.5	3.00			
23	3.938	41BTL23-1610	100392	1.6	3.00			
24	4.098	41BTL24-1610	100378	1.6	3.25			
25	4.258	41BTL25-1610	100393	1.7	3.25			
26	4.418	41BTL26-1610	100379	1.7	3.25			
28	4.738	41BTL28-1610	100380	1.9	3.25				1/2	1-11/16	1.0
30	5.057	41BTL30-1610	100381	2.0				
32	5.376	41BTL32-1610	100382	2.1				
35	5.856	41BTL35-1610	100383	2.5				
36	6.015	41BTL36-1610	100394	2.6				
40	6.653	41BTL40-1610	100384	2.9	3.25	1/2	1-11/16	1.0
45	7.450	41BTL45-1610	100385	3.7				
48	7.928	41BTL48-1610	100386	4.3				
54	8.725	41BTL54-1610	100387	5.1				
60	9.840	41BTL60-1610	100388	5.9	3.25	1/2	1-11/16	1.0
70	11.433	41BTL70-1610	100389	7.6				
72	11.752	41BTL72-1610	100395	8.4				
80	13.026	41BTL80-1610	100390	9.8				
96	15.573	41BTL96-1610	100391	11.3				

\diamond Hub grooved for chain clearance.



REBORABLE SPROCKETS-TYPE B									PLATE-TYPE A				
No. Teeth	Spkt. O.D.	Descr.	Part No.	Wt.	Bore			B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore
					Stock	Max.							
9	1.674	41B9	105297	.2	1/2	5/8	0.88	1.13 \diamond					
10	1.839	41B10	105308	.2	1/2	3/4	0.88	1.25 \diamond					
11	2.003	41B11	105309	.3	1/2	7/8	0.88	1.47 \diamond					
12	2.166	41B12	105310	.4	1/2	1	0.88	1.56 \diamond					
13	2.328	41B13	105311	.5	1/2	1	0.88	1.56 \diamond					
14	2.490	41B14	105014	.6	1/2	1	0.88	1.75					
15	2.652	41B15	105015	.7	1/2	1-5/16	0.88	1.91	41A15	103026	.28	1/2	
16	2.814	41B16	105016	.8	5/8	1-3/8	0.88	2.06	41A16	103027	.34	1/2	
17	2.974	41B17	105017	.9	5/8	1-1/2	0.88	2.23	41A17	103028	.36	1/2	
18	3.136	41B18	105018	1.0	5/8	1-5/8	0.88	2.38	41A18	103029	.44	5/8	
19	3.292	41B19	105019	1.3	5/8	1-3/4	0.88	2.47	41A19	103030	.46	5/8	
20	3.457	41B20	105020	1.5	5/8	1-7/8	1.00	2.75	41A20	103031	.52	5/8	
21	3.618	41B21	105021	1.5	5/8	1-7/8	1.00	2.88	41A21	103032	.60	5/8	
22	3.778	41B22	105022	1.8	5/8	1-3/4	1.00	2.50	41A22	103033	.66	5/8	
23	3.938	41B23	105334	2.1	5/8	1-3/4	1.00	2.50	41A23	103034	.72	5/8	
24	4.098	41B24	105023	2.2	5/8	1-3/4	1.00	2.50	41A24	103035	.82	5/8	
25	4.258	41B25	105335	2.3	5/8	1-3/4	1.00	2.50	41A25	103036	.88	5/8	
26	4.418	41B26	105024	2.5	5/8	1-3/4	1.00	2.50	41A26	103037	.94	5/8	
28	4.738	41B28	105337	2.7	5/8	1-3/4	1.00	2.50	41A28	103038	1.08	5/8	
30	5.057	41B30	105025	2.7	5/8	1-3/4	1.00	2.50	41A30	103039	1.20	5/8	
32	5.376	41B32	105026	2.9	5/8	1-3/4	1.00	2.50	41A32	103040	1.44	3/4	
35	5.856	41B35	105027	3.5	5/8	1-3/4	1.00	2.50	41A35	103268	1.70	3/4	
36	6.015	41B36	105338	3.5	5/8	1-3/4	1.00	2.50	41A36	103041	1.84	3/4	
40	6.653	41B40	105339	4.1	3/4	2	1.13	3.00	41A40	103042	2.22	3/4	
45	7.450	41B45	105340	4.3	3/4	2	1.13	3.00	41A45	103043	2.92	3/4	
48	7.928	41B48	105341	4.7	3/4	2	1.13	3.00	41A48	103044	2.50	3/4	
54	8.884	41B54	105342	5.2	3/4	2	1.13	3.00	41A54	103045	3.54	3/4	
60	9.840	41B60	105343	6.5	3/4	2	1.13	3.00	41A60	103046	4.60	3/4	
72	11.752								41A72	103047	6.7	1	
80	13.026								41A80	103245	8.1	1	
96	15.573								41A96	103246	11.7	1	

\diamond Hub grooved for chain clearance.

See List Price Book MLP for alteration charges.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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SPECIFICATION

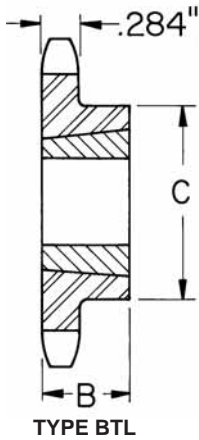


No. 40 for 1/2" Pitch Single Strand Chain

TAPER-LOCK SPROCKETS														
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B						
						Min.	Max.							
14	2.490	40BTL14H-1008	100500	.4	1.81 \diamond	1/2	1	0.88						
15	2.652	40BTL15H-1008	100501	.4	1.81									
16	2.814	40BTL16H-1008	100502	.5	1.94									
17	2.974	40BTL17H-1210	100503	.5	2.38 \diamond	1/2	1-1/4	1.00						
18	3.136	40BTL18H-1210	100504	.7	2.47 \diamond									
19	3.292	40BTL19H-1210	100505	.8	2.47									
20	3.457	40BTL20H-1610	100506	.8	2.78 \diamond	1/2	1-11/16	1.00						
21	3.618	40BTL21H-1610	100507	.8	2.78 \diamond									
22	3.778	40BTL22H-1610	100508	.8	2.78									
23	3.938	40BTL23H-1610	100509	1.2	3.00									
24	4.098	40BTL24H-1610	100510	1.5	3.25									
25	4.258	40BTL25H-1610	100511	1.6	3.25									
26	4.418	40BTL26-1610	100512	1.5	3.25									
27	4.578	40BTL27-1610	104700	1.5	3.25	1/2	1-11/16	1.00						
28	4.738	40BTL28-1610	100513	1.5	3.00									
29	4.898	40BTL29-1610	104701	1.6	3.00									
30	5.057	40BTL30-1610	100514	1.7	3.00									
32	5.376	40BTL32-1610	100515	2.0	3.00	1/2	1-11/16	1.00						
33	5.536	40BTL33-1610	104702	2.1	3.00									
34	5.696	40BTL34-1610	104703	2.3	3.00									
35	5.856	40BTL35-1610	100516	2.4	3.00									
36	6.015	40BTL36-1610	100517	2.4	3.00									
37	6.174	40BTL37-1610	104704	2.5	3.00									
38	6.334	40BTL38-1610	104705	2.6	3.00	1/2	1-11/16	1.00						
40	6.653	40BTL40-1610	100518	2.8	3.00									
41	6.812	40BTL41-1610	104706	2.9	3.00									
42	6.972	40BTL42-1610	100519	3.0	3.00									
44	7.291	40BTL44-1610	104707	3.2	3.00									
45	7.450	40BTL45-1610	100520	3.8	3.00									
47	7.769	40BTL47-1610	104708	3.8	3.00				1/2	1-11/16	1.00			
47	7.769	40BTL47-2012	100450	3.8	3.56							1/2	2-1/8	1.25
48	7.928	40BTL48-1610	100521	3.9	3.00									
50	8.248	40BTL50-1610	104709	4.5	3.00									
54	8.725	40BTL54-1610	100522	5.0	3.00									
60	9.840	40BTL60-1610	100523	6.1	3.00									
70	11.433	40BTL70-2012	100524	8.6	3.56	1/2	2-1/8	1.25						
72	11.752	40BTL72-2012	100525	8.7	3.56									
80	13.026	40BTL80-2012	100526	10.9	3.56									
84	13.663	40BTL84-2012	100527	11.8	3.56									
96	15.573	40BTL96-2012	100528	13.7	3.56									
112	18.121	40BTL112-2517	100529	21.3	4.25									

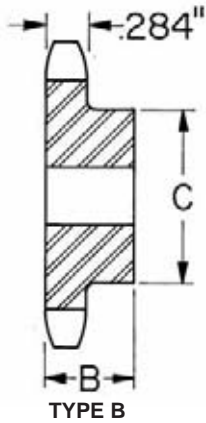
\diamond Hub grooved for chain clearance.

+ "H" suffix indicates Hardened Teeth.

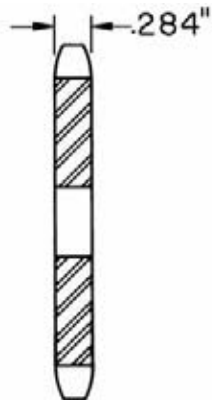




No. **40** for 1/2" Pitch Single Strand Chain



TYPE B



TYPE A

No. of Teeth	Spkt. O.D.	Descr.	Part No.	Wt.	Bore		B	C Hub Dia.	PLATE-TYPE A			
					Stock	Max.			Descr.	Part No.	Wt.	Stock Bore
9	1.674	40B9	105312	.2	1/2	5/8	.88	1.130	....	.....	....	..
10	1.839	40B10	105313	.2	1/2	3/4	.88	1.250	....	.....	....	..
11	2.003	40B11	105314	.4	1/2	7/8	.88	1.470	....	.....	....	..
12	2.166	40B12	105315	.4	1/2	1	.88	1.560	40A12	.....	.2	1/2
13	2.328	40B13	105316	.5	1/2	1	.88	1.56	40A13	.....	.2	1/2
14	2.490	40B14	105028	.6	1/2	1	.88	1.69	40A14	.....	.3	1/2
15	2.652	40B15	105029	.7	1/2	1-3/16	.88	1.81	40A15	103048	.4	5/8
16	2.814	40B16	105030	.8	5/8	1-1/4	.88	2.00	40A16	103049	.4	5/8
17	2.974	40B17	105031	.9	5/8	1-5/16	.88	2.13	40A17	103050	.5	5/8
18	3.136	40B18	105032	1.0	5/8	1-1/2	.88	2.31	40A18	103051	.5	5/8
19	3.292	40B19	105033	1.2	5/8	1-3/4	.88	2.50	40A19	103052	.6	5/8
20	3.457	40B20	105034	1.5	5/8	1-3/4	1.00	2.63	40A20	103053	.6	5/8
21	3.618	40B21	105035	1.8	5/8	1-3/4	1.00	2.75	40A21	103054	.7	5/8
22	3.778	40B22	105036	1.7	5/8	1-3/4	1.00	2.88	40A22	103055	.7	5/8
23	3.938	40B23	105299	1.8	5/8	1-3/4	1.00	2.88	40A23	103056	.9	5/8
24	4.098	40B24	105037	1.9	5/8	1-3/4	1.00	3.00	40A24	103057	.9	5/8
25	4.258	40B25	105346	1.9	5/8	1-3/4	1.00	3.25	40A25	103058	1.0	5/8
26	4.418	40B26	105038	2.0	5/8	1-3/4	1.00	3.25	40A26	103059	1.1	5/8
28	4.738	40B28	105039	2.2	5/8	1-3/4	1.00	3.25	40A28	103060	1.1	5/8
30	5.057	40B30	105040	2.4	5/8	1-3/4	1.00	3.25	40A30	103061	1.3	5/8
32	5.376	40B32	105041	2.5	3/4	1-3/4	1.00	3.25	40A32	103062	1.5	3/4
34	5.696	40B34	105347	3.3	3/4	1-3/4	1.00	3.25	40A34	103063	1.7	3/4
35	5.856	40B35	105042	2.9	3/4	1-3/4	1.00	3.25	40A35	103064	1.7	3/4
36	6.015	40B36	105043	3.0	3/4	1-3/4	1.00	3.25	40A36	103065	1.8	3/4
38	6.334	40B38	105348	3.6	3/4	2	1.13	3.25	40A38	103066	2.2	3/4
40	6.653	40B40	105044	3.8	3/4	2	1.13	3.50	40A40	103067	2.3	3/4
42	6.972	40B42	105045	4.0	3/4	2	1.13	3.50	40A42	103068	2.5	3/4
45	7.450	40B45	105046	4.4	3/4	2	1.13	3.50	40A45	103069	2.9	3/4
48	7.928	40B48	105047	4.8	3/4	2	1.13	3.50	40A48	103070	3.3	3/4
50	8.248	40B50	105349	5.2	3/4	2	1.13	3.50	40A50	103071	3.9	3/4
54	8.884	40B54	105048	5.8	3/4	2	1.13	3.50	40A54	103072	4.2	3/4
60	9.840	40B60	105049	6.8	3/4	2	1.13	3.50	40A60	103073	5.2	3/4
70	11.433	40B70	105351	10.7	1	2	1.13	4.00	40A70	103075	7.5	1
72	11.752	40B72	105050	9.6	1	2	1.13	4.00	40A72	103076	8.0	1
80	13.026								40A80	103077	9.8	1
84	13.663	40B84	105051	13.4	1	2	1.13	4.00	40A84	103078	11.0	1
96	15.573								40A96	103277	14.0	1
112	18.121								40A112	103247	19.5	1

◊ Hub grooved for chain clearance.



SPECIFICATION



No. 40-2 for 1/2" Pitch Double Strand Chain

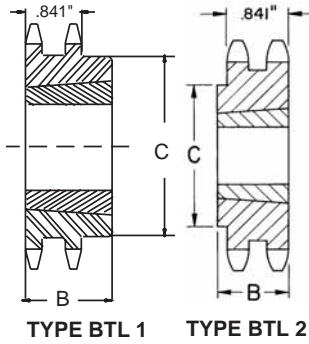
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Sprockets

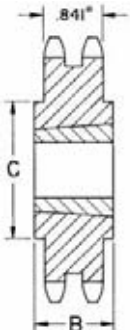
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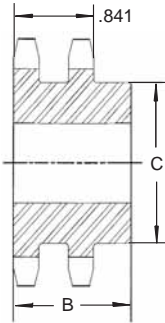


TYPE BTL 1

TYPE BTL 2



TYPE CTL



TYPE B

TAPER-LOCK SPROCKETS

No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
15	2.652	D40BTL15H-1008*	101001	.5	1.81	1/2	1	0.88
16	2.814	D40BTL16H-1008	101002	.7	1.27			
17	2.974	D40BTL17H-1008	101003	.8	1.27			
18	3.136	D40BTL18H-1210	101004	.7	2.29	1/2	1-1/4	1.00
19	3.292	D40BTL19H-1210	101005	.9	2.47			
20	3.457	D40BTL20H-1610	101006	1.1	3.25	1/2	1-11/16	1.00
21	3.618	D40BTL21H-1610	101007	1.1	2.69			
23	3.938	D40BTL23H-1610*	101008	1.4	3.00			
24	4.098	D40BTL24H-1610*	104822	1.6	3.25			
25	4.258	D40BTL25H-2012	101009	1.8	3.42	1/2	2-1/8	1.25
26	4.418	D40BTL26-2012*	104823	2.3	3.56			
30	5.057	D40BTL30-2012*	101010	3.6	3.56			
32	5.376	D40BTL32-2012*	104825	4.2	3.56			
35	5.856	D40BTL35-2012*	104826	5.1	3.56			
36	6.015	D40BTL36-2012*	101011	5.9	3.56			
40	6.653	D40BTL40-2517*	104827	6.9	4.25	1/2	2-11/16	1.75
42	6.972	D40CTL42-2517	101012	7.4				
45	7.450	D40BTL45-2517*	104828	8.5				
48	7.928	D40BTL48-2517*	101013	9.4				
52	8.566	D40BTL52-2517	101014	11.5				
54	8.884	D40BTL54-2517*	104829	12.7				
60	9.840	D40BTL60-2517*	101015	15.5				
68	11.115	D40BTL68-2517*	101016	20.5				
70	11.433	D40BTL70-2517*	104830	22.1				
76	12.389	D40BTL76-2517*	101017	26.5				
84	13.663	D40BTL84-2517*	101018	32.0				
95	15.414	D40BTL95-2517*	101019	36.0				
96	15.573	D40BTL96-2517*	104833	38.0				
102	16.528	D40BTL102-2517*	101020	44.0				

+ "H" suffix indicates Hardened Teeth.

• BTL2

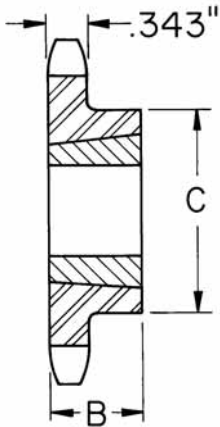
REBORABLE SPROCKETS-TYPE B

No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.
					Stock	Max.		
13	2.328	D40B13H	105931	0.8	1/2	1	1.50	1.50
15	2.652	D40B15H	105185	1.2	1/2	1-1/4	1.50	1.81
16	2.814	D40B16H	105186	1.4	5/8	1-3/8	1.50	1.97
17	2.974	D40B17H	105187	1.6	5/8	1-7/16	1.50	2.16
18	3.136	D40B18H	105188	1.8	5/8	1-1/2	1.50	2.31
19	3.292	D40B19H	105189	2.1	5/8	1-5/8	1.50	2.47
20	3.457	D40B20H	105190	2.4	5/8	3/4	1.50	2.63
21	3.618	D40B21H	105191	2.8	5/8	1-7/8	1.63	2.78
23	3.938	D40B23H	105192	3.5	5/8	2	1.63	3.09

+ "H" suffix indicates Hardened Teeth.



No. 50 for 5/8" Pitch Single Strand Chain



TYPE BTL 1

TAPER-LOCK SPROCKETS											
No. Teeth	Spkt. O.D.	Description	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B			
						Min.	Max.				
12	2.708	50BTL12H-1008	100530	.5	1.81 \diamond	1/2	1	0.88			
13	2.991	50BTL13H-1008	100531	.5	1.81						
14	3.113	50BTL14H-1008	100532	.6	1.81						
15	3.315	50BTL15H-1210	100533	.6	2.47 \diamond	1/2	1-1/4	1.00			
16	3.517	50BTL16H-1610	100534	.8	2.78 \diamond	1/2	1-11/16	1.00			
17	3.713	50BTL17H-1610	100535	1.1	2.78 \diamond						
18	3.919	50BTL18H-1610	100536	1.2	2.84						
19	4.121	50BTL19H-1610	100537	1.3	3.03						
20	4.321	50BTL20H-1610	100538	1.4	3.25						
21	4.522	50BTL21H-1610	100539	1.5	3.25	1/2	2-1/8	1.25			
22	4.722	50BTL22H-1610	100540	1.6	3.25						
23	4.923	50BTL23H-2012	100541	2.2							
24	5.123	50BTL24H-2012	100542	2.4	3.56	1/2	2-1/8	1.25			
25	5.323	50BTL25H-2012	100543	2.4							
26	5.523	50BTL26-2012	100544	2.5							
27	5.723	50BTL27-2012	100675	2.8							
28	5.922	50BTL28-2012	100545	3.0							
29	6.122	50BTL29-2012	104712	3.1							
30	6.321	50BTL30-2012	100546	3.2							
31	6.521	50BTL31-2012	104713	3.4							
32	6.721	50BTL32-2012	100547	3.5							
33	6.921	50BTL33-2012	104714	3.7							
34	7.120	50BTL34-2012	104715	3.9							
35	7.319	50BTL35-2012	100548	4.2							
36	7.519	50BTL36-2012	100549	4.7							
37	7.718	50BTL37-2012	104716	4.8							
38	9.918	50BTL38-2012	104717	5.1							
39	8.117	50BTL39H-2012	104718	5.3					1/2	2-11/16	1.75
40	8.316	50BTL40-2012	100550	5.5							
41	8.516	50BTL41-2012	104719	5.7							
42	8.715	50BTL42-2012	100551	6.0							
44	9.114	50BTL44-2012	104720	6.3							
45	9.313	50BTL45-2012	100552	6.5							
47	9.711	50BTL47-2012	104721	7.1							
48	9.911	50BTL48-2012	100553	7.4							
50	10.309	50BTL50-2012	104722	7.8							
54	11.106	50BTL54-2012	100554	8.7							
56	11.504	50BTL56-2012	104723	9.3							
60	12.301	50BTL60-2012	100555	10.5							
70	14.292	50BTL70-2517	100556	15.5	4.25	1/2	2-11/16	1.75			
72	14.690	50BTL72-2517	100557	16.5							
80	16.283	50BTL80-2517	100558	19.0							
84	17.079	50BTL84-2517	100559	23.1							
96	19.467	50BTL96-2517	100560	32.5							
112	22.651	50BTL112-2517	100561	42.2							

\diamond Hub grooved for chain clearance.

TAPER-LOCK SPROCKETS—LARGE BORE SERIES								
No. Teeth	Spkt. O.D.	Description	Part No.	Wt.	Hub Dia. C	Bore Range		B
						Min.	Max.	
27	5.723	50BTL27L-2517	100451	3.5	4.25	1/2	2-11/16	1.75
28	5.922	50BTL28L-2517	100452	3.7	4.25	1/2	2-11/16	1.75
30	6.321	50BTL30L-2517	100453	3.9	4.25	1/2	2-11/16	1.75
35	7.319	50BTL35L-2517	100454	4.7	4.25	1/2	2-11/16	1.75
36	7.519	50BTL36L-2517	100455	5.2	4.25	1/2	2-11/16	1.75
44	9.114	50BTL44L-2517	100456	6.9	4.25	1/2	2-11/16	1.75
45	9.313	50BTL45L-2517	100699	7.0	4.25	1/2	2-11/16	1.75
48	9.911	50BTL48L-2517	100457	7.9	4.25	1/2	2-11/16	1.75



SPECIFICATION



No. 50 for 5/8" Pitch Single Strand Chain

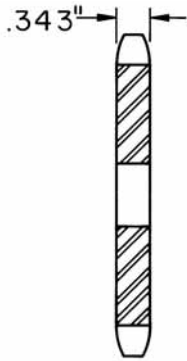
DYNA-SYNC

HT Synchronous Belts

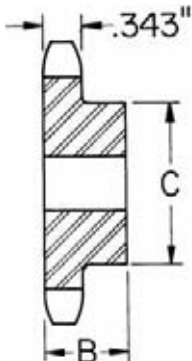
Sprockets

Conveyor Components

Engineering



TYPE A



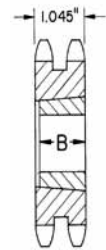
TYPE B

No. Teeth	Spkt. O.D.	Descr.	Part No.	Wt.	Bore		B	C Hub Dia.	PLATE-TYPE A			
					Stock	Max.			Descr.	Part No.	Wt.	Stock Bore
9	2.093	50B9	105317	.4	5/8	3/4	1.0	1.380	....	.....	....	....
10	2.299	50B10	105318	.5	5/8	7/8	1.0	1.560	....	.....	....	....
11	2.504	50B11	105319	.6	5/8	31/32	1.0	1.750	....	.....	....	....
12	2.708	50B12	105052	.8	5/8	1-1/4	1.0	2.00	50A12	.....	.4	5/8
13	2.911	50B13	105053	.9	5/8	1-1/4	1.0	2.00	50A13	.....	.5	5/8
14	3.113	50B14	105054	1.2	5/8	1-1/4	1.0	2.13	50A14	103079	.6	5/8
15	3.315	50B15	105055	1.4	5/8	1-1/2	1.0	2.63	50A15	103080	.7	5/8
16	3.517	50B16	105056	1.7	5/8	1-9/16	1.0	2.50	50A16	103081	.8	5/8
17	3.718	50B17	105057	1.9	5/8	1-7/8	1.0	2.69	50A17	103082	.8	5/8
18	3.919	50B18	105058	2.2	5/8	1-7/8	1.13	2.88	50A18	103083	.9	5/8
19	4.121	50B19	105059	2.4	5/8	2	1.13	3.0	50A19	108084	1.1	5/8
20	4.321	50B20	105060	2.9	5/8	2	1.13	3.0	50A20	103085	1.2	5/8
21	4.522	50B21	105061	2.8	3/4	2	1.25	3.0	50A21	103086	1.2	3/4
22	4.722	50B22	105062	2.9	3/4	2	1.25	3.0	50A22	103087	1.3	3/4
23	4.923	50B23	105063	3.0	3/4	2	1.25	3.0	50A23	108098	1.4	3/4
24	5.123	50B24	105064	3.2	3/4	2	1.25	3.0	50A24	103089	1.6	3/4
25	5.323	50B25	105065	3.3	3/4	2	1.25	3.0	50A25	103090	1.7	3/4
26	5.523	50B26	105066	3.5	3/4	2	1.25	3.0	50A26	103091	1.9	3/4
27	5.723	50B27	105352	3.6	3/4	2	1.25	3.0	50A27	103092	2.0	3/4
28	5.922	50B28	105067	3.7	3/4	2	1.25	3.0	50A28	103093	2.1	3/4
30	6.321	50B30	105068	4.1	3/4	2	1.25	3.0	50A30	103094	2.5	3/4
32	6.721	50B32	105069	4.4	3/4	2-1/8	1.38	3.25	50A32	103095	2.8	3/4
35	7.319	50B35	105070	5.0	3/4	2-1/8	1.38	3.25	50A35	103096	3.4	3/4
36	7.519	50B36	105071	5.1	3/4	2-1/8	1.38	3.25	50A36	103097	3.5	3/4
40	8.316	50B40	105072	6.1	3/4	2-1/8	1.38	3.25	50A40	103088	4.4	3/4
42	8.715	50B42	105073	6.5	3/4	2-1/4	1.38	3.25	50A42	103099	4.8	3/4
45	9.313	50B45	105074	7.2	3/4	2-1/8	1.38	3.25	50A45	103100	5.5	3/4
48	9.911	50B48	105075	9.0	1	2-1/8	1.38	3.25	50A48	103101	6.3	1
50	10.309	50B50	105353	9.4	1	2-1/8	1.38	3.25	50A50	103102	7.5	1
54	11.106	50B54	105076	10.7	1	2-1/8	1.38	3.25	50A54	103103	8	1
60	12.301	50B60	105077	12.8	1	2-1/8	1.38	3.25	50A60	103104	10	1
70	14.292	50B70	105354	15.0	1	2-1/8	1.38	3.25	50A70	103280	13	1
72	14.690	50B72	105078	18.3	1	2-1/8	1.38	3.25	50A72	103105	16	1
80	-	-	-	-	-	-	-	-	50A80	103106	20	1
84	17.080	50B84	105254	25.5	1	2-3/4	1.63	4.0	50A84	103283	20	1
96	19.470	50B96	105255	33.0	1	2-3/4	1.63	4.0	50A96	103248	26	1
112	22.650	50B112	105219	42.0	1	2-3/4	1.63	4.0	50A112	103249	36	1

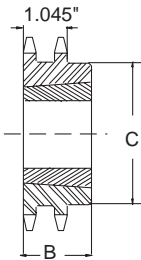
◊ Hub grooved for chain clearance.



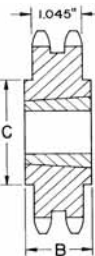
No. **50-2** for 5/8" Pitch Double Strand Chain



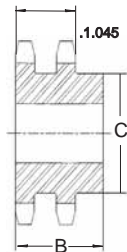
TYPE ATL



TYPE BTL



TYPE CTL



TYPE B

No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
14	3.113	D50ATL14H-1008	101031	.9	1/2	1.0	.88
15	3.315	D50ATL15H-1210	101032	1.0	1/2	1-1/4	1.0
16	3.517	D50ATL16H-1210	101033	1.1			
17	3.718	D50ATL17H-1610	101034	1.1	1/2	1-11/16	1.0
18	3.919	D50ATL18H-1610	101035	1.4			
19	4.121	D50ATL19H-1610	101036	1.7			
20	4.321	D50BTL20H-2012	101037	1.9	3.56	1/2	1-11/16	1.25
21	4.522	D50BTL21H-2012	101038	2.0				
22	4.722	D50BTL22H-2012	104834	2.5				
23	4.923	D50BTL23H-2012	104835	3.0				
24	5.123	D50BTL24H-2012	104836	3.5				
25	5.323	D50BTL25H-2012	101039	4.0				
26	5.523	D50BTL26-2012	104837	4.7				
28	5.922	D50BTL28-2012	104838	6.3				
30	6.321	D50BTL30-2517	101040	7.8	4.25	1/2	2-11/16	1.75
32	6.721	D50BTL32-2517	104839	8.4				
35	7.319	D50BTL35-2517	104840	9.2				
36	7.519	D50BTL36-2517	101041	10.0				
40	8.316	D50BTL40-2517	104841	12.7				
42	8.715	D50BTL42-2517	101042	14.2				
45	9.313	D50BTL45-2517	104842	16.1				
48	9.911	D50BTL48-2517	101043	18.7				
52	10.708	D50BTL52-2517	101044	22.5				
54	11.106	D50BTL54-2517	104843	25.2				
60	12.301	D50BTL60-2517	101045	36.5				
68	13.894	D50BTL68-2517	101046	39.5				
70	14.292	D50BTL70-2517	104844	42.7				
72	14.329	D50BTL72-2517	104845	45.0				
76	15.486	D50BTL76-2517	101047	49.5				
80	16.283	D50BTL80-2517	104846	51.0				
84	17.079	D50BTL84-2517	101048	52				
95	19.268	D50CTL95-2517	101049	70				
102	20.661	D50CTL102-2517	101050	75				

+ "H" suffix indicates Hardened Teeth.

REBORABLE-TYPE B									
No. of Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.	
					Stock	Max.			
13	2.911	D50B13H	105932	1.5	5/8	1-5/16	1.75	1.88	
14	3.113	D50B14H	105193	1.8	5/8	1-3/8	1.75	2.09	
15	3.315	D50B15H	105194	2.0	5/8	1-1/2	1.75	2.28	
16	3.567	D50B16H	105195	2.4	5/8	1-5/8	1.75	2.50	
17	3.718	D50B17H	105196	2.9	5/8	1-7/8	1.75	2.69	
18	3.919	D50B18H	105197	3.3	5/8	1-15/16	1.75	2.88	
19	4.121	D50B19H	105198	3.7	5/8	2-1/8	1.75	3.09	
20	4.321	D50B20H	105199	4.4	5/8	2.25	1.75	3.28	
21	4.522	D50B21H	105200	4.8	3/4	2-3/8	1.75	3.50	
26	5.523	D50B26	105222	7.5	15/16	2-1/2	1.88	3.75	

+ "H" suffix indicates Hardened Teeth.



SPECIFICATION



No. 60 for 3/4" Pitch Single Strand Chain

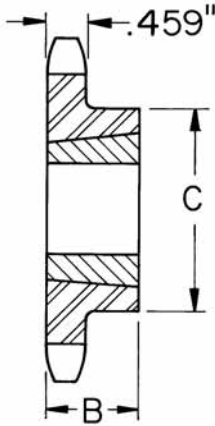
DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



TYPE BTL

No. of Teeth	Spkt. O.D.	Description +	Part No.	Spkt. Wt. w/o Bush.	C Spkt. Hub Dia.	Bore Range		B Lgth. Thru Bore			
						Min.	Max.				
11	3.005	60BTL11H-1008	100562	.6	1.81	1/2	1	.88			
12	3.249	60BTL12H-1008	100563	.7	1.81						
13	3.493	60BTL13H-1210	100564 ◇	1.1	2.47	1/2	1-1/4	1.0			
14	3.736	60BTL14H-1210	100565	1.2	2.47						
15	3.978	60BTL15H-1610	100566 ◇	1.4	2.94	1/2	1-11/16	1.0			
16	4.220	60BTL16H-1610	100567	1.9	2.94						
17	4.462	60BTL17H-1610	100568	2.0	3.25						
18	4.703	60BTL18H-1610	100569	2.2	3.25						
19	4.945	60BTL19H-1610	100570	2.4	3.25						
20	5.186	60BTL20H-2012	100571	2.5	3.56				1/2	2-1/8	1.25
21	5.426	60BTL21H-2012	100572	2.9							
22	5.666	60BTL22H-2012	100573	3.0							
23	5.907	60BTL23H-2012	100574	3.2							
24	6.147	60BTL24H-2012	100575	3.2							
25	6.387	60BTL25H-2012	100576	3.8							
26	6.627	60BTL26-2012	100577	4.1							
27	6.867	60BTL27H-2012	100676	4.2							
28	7.106	60BTL28-2012	100578	4.2	3.56	1/2	2-1/8	1.25			
29	7.346	60BTL29H-2012	104725	4.9							
30	7.586	60BTL30-2012	100579	5.5							
31	7.826	60BTL31-2012	104726	5.8							
32	8.065	60BTL32H-2012	100580	6.0							
33	8.305	60BTL33H-2012	104727	6.3							
34	8.544	60BTL34-2012	104728	6.8							
35	8.783	60BTL35-2012	100581	7.0							
36	9.023	60BTL36H-2012	100582	7.0	4.25	1/2	2-11/16	1.75			
37	9.262	60BTL37-2012	104729	7.5							
38	9.501	60BTL38-2012	104730	8.0							
39	9.740	60BTL39-2012	104731	8.3							
40	9.980	60BTL40H-2012	100583	8.7							
41	10.219	60BTL41-2012	104732	9.2							
42	10.458	60BTL42-2012	100584	9.7							
45	11.176	60BTL45-2012	100585	10.7							
47	11.654	60BTL47-2012	104733	12.8							
48	11.893	60BTL48-2012	100586	13.5							
50	12.371	60BTL50-2517	104734	15.4	4.25	1/2	2-11/16	1.75			
54	13.327	60BTL54-2517	100587	17.8							
56	13.805	60BTL56-2517	104735	19.5							
60	14.761	60BTL60-2517	100588	20.7							
70	17.150	60BTL70-2517	100589	30.0							
72	17.628	60BTL72-2517	100590	31.6							
80	19.539	60BTL80-2517	100591	34.7							
84	20.495	60BTL84-2517	100592	44.7							

◇ Hub grooved for chain clearance.

+ "H" suffix indicates Hardened Teeth.

TAPER-LOCK SPROCKETS-Large Bore Series

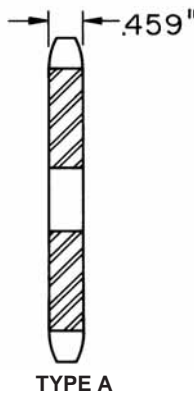
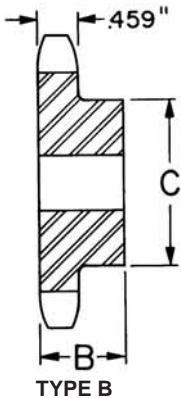
No. Teeth	Spkt. O.D.	Description L	Part No.	Wt.	Hub Dia. C	Bore Range		B Dim.
						Min.	Max.	
21	5.426	60BTL21HL-2517	100696	3.4	4.25	1/2	2-11/16	1.75
27	6.867	60BTL27L-2517	100458	4.8	4.25	1/2	2-11/16	1.75
28	7.106	60BTL28L-2517	100459	4.8	4.25	1/2	2-11/16	1.75
30	7.756	60BTL30L-2517	100460	5.9	4.25	1/2	2-11/16	1.75
35	8.783	60BTL35L-2517	100461	7.5	4.25	1/2	2-11/16	1.75
36	9.023	60BTL36L-2517	100462	7.5	4.25	1/2	2-11/16	1.75
39	9.740	60BTL39L-2517	104598	8.8	4.25	1/2	2-11/16	1.75
40	9.980	60BTL40L-2517	100463	9.2	4.25	1/2	2-11/16	1.75

+ "H" suffix indicates Hardened Teeth.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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No. **60** for 3/4" Pitch Single Strand Chain



No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	REBORABLE SPROCKETS-TYPE B			PLATE-TYPE A				
					Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore
					Stock	Max.						
9	2.511	60B9	105079	.6	3/4	1	1.25	1.690	.....	.....	.....	.....
10	2.759	60B10	105080	.8	3/4	1-3/16	1.25	1.940	.....	.....	.....	.....
11	3.005	60B11	105081	1.0	3/4	1-5/16	1.25	2.060	.....	.....	.....	.....
12	3.249	60B12	105082	1.3	3/4	1-3/8	1.25	2.380	.....	.....	.....	.....
13	3.493	60B13	105083	1.7	3/4	1-1/2	1.25	2.41	60A13	103107	1.0	3/4
14	3.736	60B14	105084	2.0	3/4	1-3/4	1.25	2.56	60A14	103108	1.2	3/4
15	3.978	60B15	105085	2.4	3/4	1-7/8	1.25	2.88	60A15	103109	1.3	3/4
16	4.220	60B16	105086	2.9	3/4	2	1.25	3.06	60A16	103110	1.5	3/4
17	4.462	60B17	105087	3.1	3/4	2-1/4	1.25	3.25	60A17	103111	1.7	3/4
18	4.703	60B18	105088	3.4	3/4	2-3/8	1.25	3.50	60A18	103112	1.8	3/4
19	4.945	60B19	105089	3.6	3/4	2-3/8	1.25	3.50	60A19	103113	2.0	3/4
20	5.186	60B20	105090	5.0	3/4	2-3/8	1.25	3.88	60A20	103114	2.2	3/4
21	5.426	60B21	105091	5.2	3/4	2-3/4	1.25	4.0	60A21	103115	2.5	1
22	5.666	60B22	105092	5.4	3/4	2-3/4	1.25	4.0	60A22	103116	2.8	1
23	5.907	60B23	105093	5.6	1	2-3/4	1.50	4.0	60A23	103117	3.1	1
24	6.147	60B24	105094	6.0	1	2-3/4	1.50	4.0	60A24	103118	3.3	1
25	6.387	60B25	105095	6.2	1	2-3/4	1.50	4.0	60A25	103119	3.6	1
26	6.627	60B26	105096	6.4	1	2-3/4	1.25	4.0	60A26	103120	3.9	1
27	6.867	60B27	105356	6.7	1	2-3/4	1.50	4.0	60A27	103121	4.2	1
28	7.106	60B28	105097	7.0	1	2-3/4	1.50	4.0	60A28	103122	4.6	1
30	7.586	60B30	105098	7.6	1	2-3/4	1.50	4.0	60A30	103123	5.3	1
32	8.065	60B32	105099	8.4	1	2-3/4	1.50	4.0	60A32	103124	5.9	1
34	8.540	60B34	105655	8.8	1	2-3/4	1.50	4.0	60A34	103293	7.0	1
35	8.783	60B35	105100	10	1	2-3/4	1.50	4.0	60A35	103125	7.2	1
36	9.023	60B36	105101	11	1	2-3/4	1.50	4.0	60A36	103126	7.6	1
40	9.980	60B40	105102	12	1	2-3/4	1.50	4.0	60A40	103127	9.4	1
42	10.458	60B42	105357	14	1	2-3/4	1.50	4.0	60A42	103128	10	1
45	11.176	60B45	105103	15	1	2-3/4	1.50	4.0	60A45	103129	12	1
48	11.893	60B48	105104	16	1	2-3/4	1.50	4.0	60A48	103130	14	1
54	13.327	60B54	105105	20	1-3/8	2-3/4	1.75	4.25	60A54	103131	17	1-3/8
60	14.761	60B60	105106	24	1-3/8	2-3/4	1.75	4.25	60A60	103132	20	1-3/8
70	17.150	60B70	105358	33	1-3/8	2-3/4	1.75	4.25	60A70	103133	25	1-3/8
72	17.628	60B72	105107	33	1-3/8	2-3/4	1.75	4.25	60A72	103286	28	1-3/8
80	19.539	60B80	105359	43	1-3/8	2-3/4	1.75	4.25	60A80	103134	34	1-3/8
84	20.518								60A84	103289	38	1-3/8

◊ Hub grooved for chain clearance.
 + "H" suffix indicates Hardened Teeth.



SPECIFICATION



No. 60-2 for 3/4" Pitch Double Strand Chain

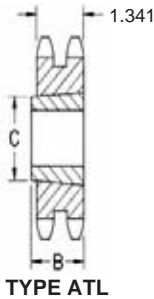
DYNA-SYNC

HT Synchronous Belts

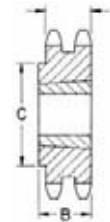
Sprockets

Conveyor Components

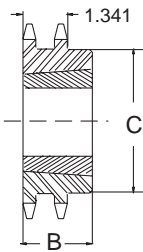
Engineering



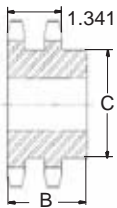
TYPE ATL



TYPE BTL 1



TYPE BTL 2



TYPE B

TAPER-LOCK - DOUBLE STRAND								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
13	3.493	D60BTL13H-1215•	101061	1.4	2.46	1/2	1-1/4	1.50
14	3.736	D60BTL14H-1215•	101062	1.7	2.49			
14T	3.736	D60BTL14H-1615•	101086	1.7	2.74			
15	3.978	D60BTL15H-1615•	101063	1.8	2.47	1/2	1-11/16	1.50
16	4.220	D60BTL16H-1615•	101064	2.4	2.97			
17	4.462	D60BTL17H-1615	101065	2.6	3.25			
18	4.703	D60ATL18H-2012	101066	2.8	...	1/2	2-1/8	1.25
19	4.945	D60ATL19H-2012	101067	3.1	...			
20	5.186	D60BTL20H-2517•	101068	3.3	3.95	1/2	2-11/16	1.75
21	5.426	D60BTL21H-2517•	101069	4.3	4.06			
22	5.666	D60BTL22H-2517	104848	5.5	4.25			
23	5.907	D60BTL23H-2517	104849	6.1	4.25			
24	6.147	D60BTL24H-2517	104850	7.2	...			
25	6.387	D60BTL25H-2517	101070	8.0	...	4.25	1/2	2-11/16
26	6.627	D60BTL26-2517	104914	10.2	...			
27	6.867	D60BTL27-2517	101083	10.8	...			
28	7.106	D60BTL28-2517	104851	11.9	...			
29	7.346	D60BTL29-2517	101084	12.7	...			
30	7.586	D60BTL30-2517	101071	13.4	...			
32	8.065	D60BTL32-2517	104852	15	...			
35	8.783	D60BTL35-2517	104853	17	...			
36	9.023	D60BTL36-2517	101072	18	...			
40	9.980	D60BTL40-2517	104854	23	...			
42	10.458	D60BTL42-2517	101073	26	...			
45	11.176	D60BTL45-2517	101074	30	...			
48	11.893	D60BTL48-2517	104855	36	...			
52	12.849	D60CTL52-2517	101075	41	...	5.25	7/8	3-1/4
60	14.761	D60BTL60-2517	101076	33	...			
68	16.673	D60CTL68-2517	101077	37	...			
70	17.150	D60BTL70-3020	104857	77	...			
72	17.628	D60BTL72-3020	104858	83	...			
76	18.584	D60BTL76-3020	101078	42	...			

+ "H" suffix indicates Hardened Teeth.

• BTL1

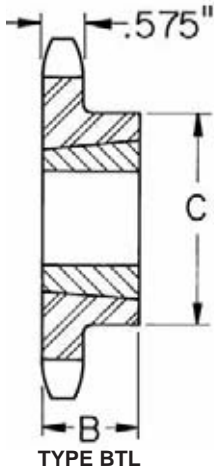
REBORABLE-TYPE B								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.
					Stock	Max		
13	3.493	D60B13H	105201	2.6	3/4	1-1/2	2.13	2.25
14	3.736	D60B14H	105202	3.2	3/4	1-3/4	2.13	2.50
15	3.978	D60B15H	105203	3.8	3/4	1-7/8	2.13	2.75
16	4.220	D60B16H	105204	4.5	3/4	2	2.13	3.00
17	4.462	D60B17H	105205	5.3	3/4	2-1/4	2.13	3.22
18	4.703	D60B18H	105206	6.5	1	2-3/8	2.13	3.44
19	4.945	D60B19H	105207	7.2	1	2-1/2	2.13	3.69
20	5.186	D60B20H	105208	7.7	1	2-1/2	2.13	3.75
21	5.426	D60B21H	105209	9.0	1	2-3/4	2.13	4.13

+ "H" suffix indicates Hardened Teeth.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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No. 80 for 1" Pitch Single Strand Chain



TAPER-LOCK									
No. Teeth	Spkt. O.D.	Description +	Part No.	Spkt. Wt. w/o Bush.	C Hub Dia.	Bore Range		B	
						Min.	Max.		
10	3.678	80BTL10H-1215	100593	1.2	2.38 [∅]	1/2	1-1/4	1.50	
11	4.006	80BTL11H-1215	100594	1.5	2.38 [∅]				
12	4.332	80BTL12H-1615	100595	1.5	2.94 [∅]	1/2	1-11/16	1.50	
13	4.657	80BTL13H-1615	100596	2.5	2.94				
14	4.981	80BTL14H-1615	100597	2.9	3.25				
15	5.304	80BTL15H-1615	100598	3.0	3.25				
16	5.627	80BTL16H-2012	100599	3.0	3.56	1/2	2-1/8	1.25	
17	5.949	80BTL17H-2012	100600	3.5					
18	6.271	80BTL18H-2012	100601	4.0					
19	6.593	80BTL19H-2012	100602	4.5					
20	6.914	80BTL20H-2517	100603	5.5	4.25	1/2	2-11/16	1.75	
21	7.235	80BTL21H-2517	100604	6.1					
22	7.555	80BTL22H-2517	100605	6.7					
23	7.876	80BTL23H-2517	100606	7.2					
24	8.196	80BTL24H-2517	100607	7.5					
25	8.516	80BTL25H-2517	100608	8.5					
26	8.836	80BTL26H-2517	100609	8.5					
27	9.156	80BTL27-2517	100678	9.8					
28	9.475	80BTL28-2517	100679	10.7					
29	9.795	80BTL29-2517	104738	11.5					
30	10.114	80BTL30-2517	100610	12.3	4.25	1/2	2-11/16	1.75	
31	10.434	80BTL31-2517	104739	12.8					
32	10.753	80BTL32-2517	100611	13.4					
33	11.073	80BTL33-2517	104740	14.1					
34	11.392	80BTL34-2517	104741	14.7					
35	11.711	80BTL35-2517	100612	15.6					
36	12.030	80BTL36-2517	100613	16.3					
37	12.349	80BTL37-2517	104742	17.2					
38	12.668	80BTL38-2517	104743	18.3					
39	12.987	80BTL39-2517	104744	19.4					
40	13.306	80BTL40-2517	100614	20.5	5.25	7/8	3-1/4	2.00	
41	13.625	80BTL41-2517	104745	22.2					
42	13.944	80BTL42-2517	104746	25.1					
44	14.582	80BTL44-2517	104747	28.4					
45	14.901	80BTL45-2517	100615	29.3					
48	15.857	80BTL48-2517	100616	34.6					
50	16.495	80BTL50-2517	104748	36.8					
54	17.769	80BTL54-2517	100617	39.0					
60	19.681	80BTL60-2517	100618	51.3					
70	22.867	80BTL70-3020	100619	65.8					
80	26.052	80BTL80-3020	100620	77.3					

∅ Hub grooved for chain clearance.

+ "H" suffix indicates Hardened Teeth.

TAPER-LOCK SPROCKETS—Large Bore Series									
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B	
						Min.	Max.		
21	7.235	80BTL21HL-3020	100695	6.8	5.25	7/8	3-1/4	2.0	
36	12.030	80BTL36L-3020	100698	17.0	5.25	7/8	3-1/4	2.0	

+ "H" suffix indicates Hardened Teeth.



SPECIFICATION



No. 80 for 1" Pitch Single Strand Chain

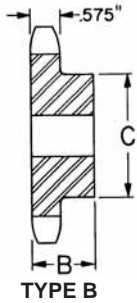
DYNA-SYNC

HT Synchronous Belts

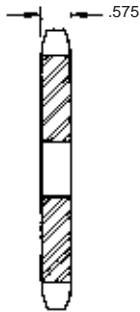
Sprockets

Conveyor Components

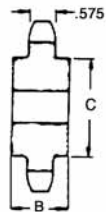
Engineering



TYPE B



TYPE A



TYPE C

No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.	PLATE-TYPE A			
					Stock	Max.			Spkt. No.	Part No.	Wt.	Stock Bore
9	3.348	80B9	105360	1.8	1	1-3/8	1.56	2.280	.....	.....	.....	.....
10	3.678	80B10	105361	1.9	1	1-1/2	1.56	2.560	.....	.....	.....	.....
11	4.006	80B11	105108	2.3	1	1-5/8	1.56	2.810	.....	.....	.....	.....
12	4.332	80B12	105109	2.4	1	1-7/8	1.56	3.130	80A12	103135	1.9	1
13	4.657	80B13	105110	3.5	1	2	1.56	3.03	80A13	103136	2.2	1
14	4.981	80B14	105111	4.3	1	2-1/4	1.56	3.25	80A14	103137	2.5	1
15	5.304	80B15	105112	5.0	1	2-3/8	1.56	3.67	80A15	103138	2.7	1
16	5.627	80B16	105113	5.8	1	2-7/16	1.63	3.75	80A16	103139	3.0	1
17	5.949	80B17	105114	6.3	1	2-7/16	1.63	3.75	80A17	103140	3.5	1
18	6.271	80B18	105115	7.9	1	2-7/16	1.63	3.75	80A18	103141	3.9	1
19	6.593	80B19	105116	8.3	1	2-7/16	1.63	3.75	80A19	103142	4.3	1
20	6.914	80B20	105117	9.2	1	2-15/16	1.63	4.50	80A20	103143	4.8	1
21	7.235	80B21	105118	9.6	1	2-15/16	1.63	4.50	80A21	103144	5.2	1
22	7.555	80B22	105119	10	1	2-15/16	1.63	4.50	80A22	103145	5.8	1
23	7.876	80B23	105120	11	1	2-15/16	1.63	4.50	80A23	103146	6.3	1
24	8.196	80B24	105121	11	1	2-15/16	1.63	4.50	80A24	103147	7.0	1
25	8.516	80B25	105122	12	1	2-15/16	1.88	4.50	80A25	103148	7.6	1
26	8.836	80B26	105123	13	1-3/8	3-1/4	1.88	4.75	80A26	103149	8.7	1-3/8
27	9.156	80B27	105362	15	1-3/8	3-1/4	1.88	4.75	80A27	103150	9.3	1-3/8
28	9.475	80B28	105363	15	1-3/8	3-1/4	1.88	4.75	80A28	103151	10	1-3/8
30	10.114	80B30	105124	15	1-3/8	3-1/4	1.88	4.75	80A30	103152	12	1-3/8
32	10.753	80B32	105125	17	1-3/8	3-1/4	1.88	4.75	80A32	103153	13	1-3/8
35	11.711	80B35	105364	19	1-3/8	3-1/4	1.88	4.75	80A35	103154	16	1-3/8
36	12.030	80B36	105126	20	1-3/8	3-1/4	1.88	4.75	80A36	103155	17	1-3/8
40	13.306	80B40	105127	24	1-3/8	3-1/4	1.88	4.75	80A40	103156	21	1-3/16
45	14.901	80B45	105128	33	1-3/8	3-1/4	1.88	4.75	80A45	103157	25	1-3/8
48	15.857	80B48	105129	36	1-3/8	3-1/4	1.88	4.75	80A48	103158	28	1-3/8
50	16.495	80B50	105365	39	1-3/8	3-1/4	1.88	4.75	80A50	103159	33	1-3/8
54	17.769	80B54	105130	44	1-3/8	3-1/4	1.88	4.75	80A54	103160	35	1-3/8
60	19.681	80B60	105131	52	1-3/8	3-1/4	1.88	4.75	80A60	103161	44	1-3/8
70	22.867	80C70	105656	76	1-3/8	4-1/8	3.25	6.25	80A70	103162	57	1-3/8
80	26.052	80C80	105657	90	1-3/8	4-1/8	3.25	6.25	80A80	103163	77	1-3/8

◊ Hub grooved for chain clearance.

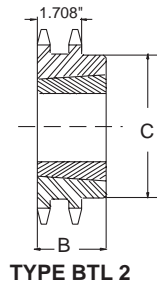
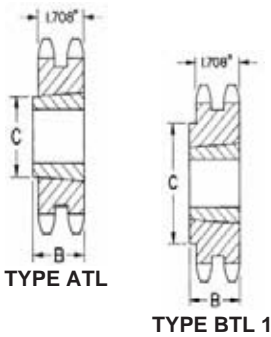
+ "H" suffix indicates Hardened Teeth.

See List Price Book MLP for alteration charges.

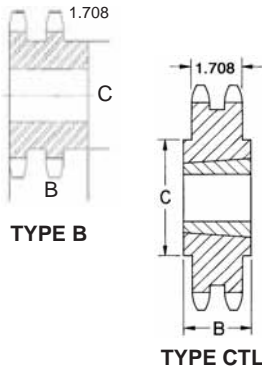
FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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No. 80-2 for 1" Pitch Double Strand Chain



TYPE BTL 2



TYPE CTL

TAPER-LOCK-DOUBLE STRAND								
No. Teeth	Spkt. O.D.	Description +	Part No.	Spkt. Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
13	4.657	D80ATL13H-1615	101090	3.3	1/2	1-11/16	1.50
14	4.981	D80ATL14H-2012	101091	3.5	1/2	2-1/8	1.25
15	5.304	D80ATL15H-2012	101092	4.4	....		
16	5.627	D80ATL16H-2517	101093	4.6	1/2	2-11/16	1.75
17	5.949	D80ATL17H-2517	101094	5.5	....		
18	6.271	D80ATL18H-2517	101095	6.6	....		
19	6.593	D80BTL19H-3020	101096	7.1	7/8	3-1/4	2.00
20	6.914	D80BTL20H-3020	101097	8.2	5.25			
21	7.235	D80BTL21H-3020	101098	10.4	5.46			
22	7.555	D80BTL22H-3020	104862	11.0	5.25			
23	7.876	D80BTL23H-3020	104863	12.0	5.25			
24	8.196	D80BTL24H-3020	104864	14.0	5.25			
25	8.516	D80BTL25H-3020	101099	16.7	5.25	7/8	3-1/4	2.00
26	8.836	D80BTL26-3020	104865	21.3	5.25			
27	9.156	D80BTL27-3020	101085	22.0	5.25			
28	9.475	D80BTL28-3020	104866	22.5	5.25			
30	10.114	D80BTL30-3020	101100	23	5.25			
32	10.753	D80BTL32-3020	104867	33	5.25				7/8	3-1/4	2.00
35	11.711	D80BTL35-3020	104868	39				
36	12.030	D80BTL36-3020	101101	40				
40	13.306	D80BTL40-3020	104869	54				
42	13.944	D80BTL42-3020	101102	56				
48	15.857	D80BTL48-3020	104870	80				
54	17.769	D80CTL54-3020	104871	51				
60	19.681	D80CTL60-3020	101105	62				
68	22.230	D80CTL68-3020	101106	75				
76	24.778	D80CTL76-3020	101107	83				
95	30.828	D80CTL95-3020	101108	100				

REBORABLE SPROCKETS								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.
					Stock	Max.		
13	4.657	D80B13H	105210	6.5	1	2	2.50	3.03
14	4.981	D80B14H	105211	7.7	1	2-1/4	2.50	3.31
15	5.304	D80B15H	105212	9.2	1	2-1/2	2.50	3.63
16	5.627	D80B16H	105213	11.5	1	2-3/4	2.75	4.00
17	5.949	D80B17H	105214	13.2	1	2-7/8	2.75	4.31
18	6.271	D80B18H	105215	15	1	3-1/8	2.75	4.63
19	6.593	D80B19H	105216	17	1	3-5/16	2.75	4.94
20	6.914	D80B20H	105217	18	1	3-5/16	2.75	5.00
21	7.235	D80B21H	105218	20	1	3-5/16	2.75	5.00

+ "H" suffix indicates Hardened Teeth.

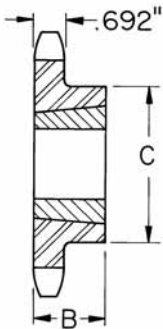


SPECIFICATION

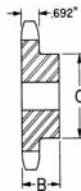


No. 100 for 1-1/4" Pitch Single Strand Chain

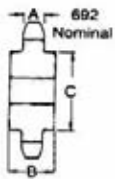
TAPER-LOCK									
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C. Hub Dia.	Bore Range		B	
						Min.	Max.		
11	5.008	100BTL11H-1615	100621	2.7	3.00	1/2	1-11/16	1.50	
12	5.415	100BTL12H-1615	100622	3.1	3.25				
13	5.821	100BTL13H-2012	100623	3.0	3.56	1/2	2-1/8	1.25	
14	6.226	100BTL14H-2012	100624	4.0					
15	6.630	100BTL15H-2517	100625	5.5	4.25	1/2	2-11/16	1.75	
16	7.034	100BTL16H-2517	100626	6.0					
17	7.436	100BTL17H-2517	100627	7.0	4.25	1/2	2-11/16	1.75	
18	7.839	100BTL18H-2517	100628	7.5					
19	8.241	100BTL19H-2517	100629	9.7	4.25	1/2	2-11/16	1.75	
20	8.643	100BTL20H-2517	100630	9.8					
21	9.044	100BTL21H-2517	100631	10.6	4.25	1/2	2-11/16	1.75	
22	9.444	100BTL22H-2517	100632	11.4					
23	9.845	100BTL23H-2517	104753	15.0	4.25	1/2	2-11/16	1.75	
24	10.245	100BTL24H-2517	100633	14.3					
25	10.645	100BTL25H-2517	104754	17.0	4.50	1/2	2-11/16	1.75	
26	11.045	100BTL26-2517	100634	16.0					
28	11.844	100BTL28-3020	100685	20.2	5.25	7/8	3-1/4	2.0	
30	12.643	100BTL30-3020	100635	21.5					
32	13.441	100BTL32-3020	100636	25.0	5.25	7/8	3-1/4	2.0	
35	14.639	100BTL35-3020	100637	30.2					
36	15.038	100BTL36-3020	100638	31.4	5.25	7/8	3-1/4	2.0	
40	16.633	100BTL40-3020	100639	36.6					
42	17.430	100BTL42-3020	104755	43	5.25	7/8	3-1/4	2.0	
45	18.626	100BTL45-3020	100640	47					
48	19.821	100BTL48-3020	100641	60	5.25	7/8	3-1/4	2.0	
54	22.211	100BTL54-3020	100642	77					
60	24.601	100BTL60-3020	100643	94					



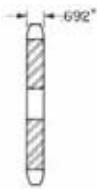
TYPE BTL



TYPE B



TYPE C



TYPE A

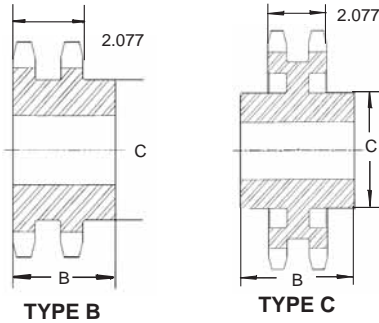
REBORABLE-TYPE B & C										PLATE-TYPE A			
No. Teeth	Type	Spkt. O.D.	Descr. +	Part No.	Wt.	Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore
						Stock	Max.						
10	B	4.598	100B10	105366	5.0	1	1-7/8	1.88	3.25	.....	.....	....	....
11	B	5.008	100B11	105132	5.2	1	2-1/4	1.88	3.56	100A11	103164	3.4	1
12	B	5.415	100B12	105133	5.4	1	2-1/4	1.88	4.00	100A12	103165	4.1	1
13	B	5.821	100B13	105134	6.6	1	2-3/8	1.63	3.78	100A13	103166	4.7	1
14	B	6.226	100B14	105135	8.5	1-1/4	2-3/4	1.63	4.19	100A14	103167	5.4	1-1/4
15	B	6.630	100B15	105136	9.4	1-1/4	3	1.75	4.50	100A15	103168	6.2	1-1/4
16	B	7.034	100B16	105137	10	1-1/4	3	1.75	4.50	100A16	103169	7.0	1-1/4
17	B	7.436	100B17	105138	11	1-1/4	3	1.75	4.50	100A17	103170	7.8	1-1/4
18	B	7.839	100B18	105139	12	1-1/4	3	1.75	4.50	100A18	103171	8.7	1-1/4
19	B	8.241	100B19	105140	13	1-1/4	3	2.0	4.50	100A19	103172	9.6	1-1/4
20	B	8.643	100B20	105141	14	1-1/4	3	2.0	4.50	100A20	103173	10.6	1-1/4
21	B	9.044	100B21	105142	16	1-1/4	3	2.0	4.50	100A21	103174	11.7	1-1/4
22	B	9.444	100B22	105143	17	1-1/4	3	2.0	4.50	100A22	103175	12.7	1-1/4
23	B	9.845	100B23	105367	18	1-1/4	3	2.0	4.50	100A23	103176	13	1-1/4
24	B	10.245	100B24	105144	19	1-1/4	3	2.0	4.50	100A24	103177	14	1-1/4
26	B	11.045	100B26	105145	21	1-3/8	3-5/16	2.0	5.0	100A26	103178	17	1-3/8
28	B	11.844	100B28	105368	25	1-3/8	3-5/16	2.0	5.0	100A28	103179	19	1-3/8
30	B	12.643	100B30	105146	27	1-3/8	3-5/16	2.0	5.0	100A30	103180	22	1-3/8
32	B	13.441	100B32	105147	30	1-3/8	3-5/16	2.0	5.0	100A32	103181	26	1-3/8
35	B	14.639	100B35	105369	34	1-3/8	3-5/16	2.0	5.0	100A35	103182	30	1-3/8
36	B	15.038	100B36	105148	39	1-3/8	3-5/16	2.50	5.0	100A36	103183	33	1-3/8
40	B	16.633	100B40	105149	47	1-3/8	3-5/16	2.50	5.0	100A40	103184	40	1-3/8
42	-	-	-	-	-	-	-	-	-	100A42	103185	44	1-3/8
45	B	18.626	100B45	105371	55	1-3/8	3-5/16	2.50	5.0	100A45	103186	50	1-3/8
48	B	19.821	100B48	105372	66	1-3/8	4-1/8	2.75	6.25	100A48	103187	57	1-3/8
54	C	22.211	100C54	105411	78	1-3/8	4-1/8	3.25	6.25	100A54	103188	71	1-3/8
60	C	24.601	100C60	105412	90	1-3/8	4-1/8	3.75	6.25	100A60	103189	88	1-3/8
70	C	28.584	100C70	105220	125	1-3/8	5-1/4	3.75	7.0	100A70	103190	118	1-3/8
80	C	32.565	100C80	105221	151	1-3/8	5-1/4	3.75	7.0	100A80	103191	157	1-3/8

+ "H" suffix indicates Hardened Teeth.

See List Price Book MLP for alteration charges.



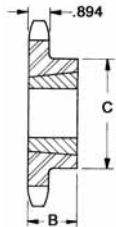
No. 100-2 for 1-1/4" Pitch Double Strand Chain



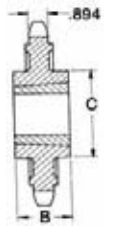
REBORABLE-TYPE B & C									
No. Teeth	Type	Spkt. O.D.	Descr. +	Part No.	Wt.	Bore		B	C Hub Dia.
						Stock	Max.		
9	B	4.180	D100B9	101245	4.6	1	1-1/2	2.87	2.31
10	B	4.600	D100B10	101246	6.2	1	1-3/4	2.87	2.69
11	B	5.010	D100B11	101247	7.9	1	2-1/8	2.87	3.13
12	B	5.420	D100B12	101248	9.3	1-1/8	2-1/4	2.87	3.38
13	B	5.820	D100B13	101249	11.4	1-1/8	2-1/2	2.87	3.75
14	B	6.230	D100B14	101250	13.6	1-1/8	2-3/4	2.87	4.19
15	B	6.630	D100B15	101251	17.1	1-1/4	3-1/8	3.13	4.56
16	B	7.030	D100B16	101252	20.1	1-1/4	3-5/16	3.13	5.00
17	B	7.440	D100B17	101253	23.1	1-1/4	3-1/2	3.13	5.25
18	B	7.840	D100B18	101254	25.4	1-1/4	3-1/2	3.13	5.25
19	B	8.240	D100B19	101255	29.6	1-1/4	3-1/4	3.13	5.50
20	B	8.640	D100B20	101256	32.4	1-1/4	3-1/4	3.13	5.50
21	B	9.040	D100B21	101257	35.3	1-1/4	3-3/4	3.38	5.50
22	B	9.440	D100B22	101258	38.4	1-1/4	3-3/4	3.38	5.50
23	B	9.840	D100B23	101259	41.3	1-1/4	3-3/4	3.38	5.50
24	B	10.250	D100B24	101260	45.1	1-1/4	3-3/4	3.38	5.50
25	B	10.650	D100B25	101261	48.5	1-1/4	3-3/4	3.38	5.50
26	B	11.050	D100B26	101262	51.5	1-1/4	3-3/4	3.38	5.50
30	B	12.640	D100B30	101263	65.0	1-1/4	3-3/4	3.38	5.50
45	C	18.630	D100C45	101265	103	1-5/8	4	4.50	6.00
60	C	24.600	D100C60	101266	175	2	5	5.00	7.50
80	C	32.570	D100C80	101268	231	2	5	5.00	7.50

Maximum Bores shown will accommodate Standard Keyseat and Setscrew over Key seat. Slightly larger Bores are possible with no Ks., Shallow Ks., or S.S. at angle to Ks.

No. 120 for 1-1/2" Pitch Single Strand Chain



TYPE BTL



TYPE CTL

TAPER-LOCK								
No. of Teeth	Spkt. O.D.	Description +	Part No.	Spkt. Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
12	6.498	120BTL12H-2012	100396	8.0	3.56	1/2	2-1/8	1.25
13	6.989	120BTL13H-2517	100644	6.4	4.25	1/2	2-11/16	1.75
14	7.472	120BTL14H-2517	100645	7.8				
15	7.956	120BTL15H-2517	100646	9.6				
16	8.441	120BTL16H-3020	100647	10.2	5.25	7/8	3-1/4	2.00
17	8.924	120BTL17H-3020	100648	11.6				
18	9.407	120BTL18H-3020	100649	13.2				
19	9.890	120BTL19H-3020	100650	11.2				
20	10.371	120BTL20H-3020	100397	16				
21	10.853	120BTL21H-3020	100651	18				
22	11.333	120BTL22H-3020	104761	26				
23	11.814	120BTL23H-3020	104762	28				
24	12.294	120BTL24H-3020	100398	24	6.5	1-3/16	3-15/16	3.50
25	12.774	120BTL25H-3020	104763	32				
26	13.254	120BTL26-3020	100652	30				
28	14.213	120BTL28-3020	104764	41				
30	15.171	120BTL30-3020	100399	39.7				
32	16.130	120BTL32-3020	100400	38				
35	17.567	120BTL35-3020	100232	46				
36	18.045	120BTL36-3020	100401	75				
45	22.352	120CTL45-3535	104765	110	6.5	1-3/16	3-15/16	3.50
60	29.522	120CTL60-3535	100236	120				
70	34.301	120CTL70-3535	100238	144				
80	39.078	120CTL80-3535	100240	164				

+ "H" suffix indicates Hardened Teeth.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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SPECIFICATION



A.S.A. No. 120 for 1-1/2" Pitch Single Strand Chain

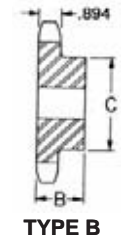
DYNA-SYNC

HT Synchronous Belts

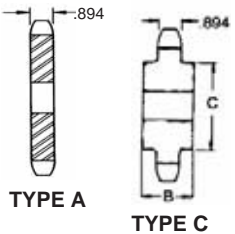
Sprockets

Conveyor Components

Engineering



TYPE B

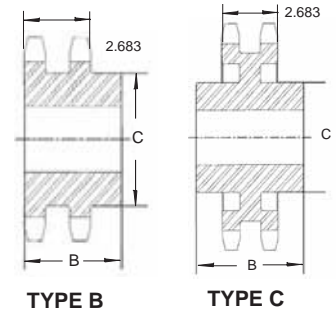


TYPE A

TYPE C

No. Tee th	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.	PLATE-TYPE A			
					Stock	Max.			Spkt. No.	Part No.	Wt.	Stock Bore
11	6.009	120B11	105150	7.8	1-1/4	2-3/8	2.13	3.56	120A11	103192	5	1-1/4
12	6.498	120B12	105151	10	1-1/4	2-3/4	2.13	4.13	120A12	103193	6	1-1/4
13	6.986	120B13	105152	13	1-1/4	3	2.25	4.56	120A13	103194	7	1-1/4
14	7.472	120B14	105153	14	1-1/4	3-1/4	2.25	4.75	120A14	103195	8	1-1/4
15	7.956	120B15	105154	16	1-1/4	3-1/4	2.25	4.75	120A15	103196	10	1-1/4
16	8.441	120B16	105155	20	1-3/8	3-1/2	2.38	5.25	120A16	103197	11	1-3/8
17	8.924	120B17	105156	22	1-3/8	3-1/2	2.38	5.25	120A17	103198	12	1-3/8
18	9.407	120B18	105157	23	1-3/8	3-1/2	2.38	5.25	120A18	103199	14	1-3/8
19	9.890	120B19	105158	25	1-3/8	3-1/2	2.38	5.25	120A19	103200	16	1-3/8
20	10.371	120B20	105375	27	1-3/8	3-1/2	2.38	5.25	120A20	103201	18	1-3/8
21	10.853	120B21	105159	29	1-3/8	3-1/2	2.38	5.25	120A21	103202	19	1-3/8
24	12.294	120B24	105376	35	1-3/8	3-1/2	2.38	5.25	120A24	103203	25	1-3/8
26	13.254	120B26	105160	40	1-3/8	4-1/8	2.50	6.25	120A26	103204	30	1-3/8
30	15.171	120B30	105377	50.2	1-3/8	4-1/8	2.50	6.25	120A30	103205	41	
32	16.130	120B32	105378	56.2	1-3/8	4-1/8	2.50	6.25	120A32	103206	45	
35	17.567	120B35	105379	63	1-3/8	4-1/8	2.50	6.25	120A35	103207	54	
36	18.045	120B36	105658	66.4	1-3/8	4-1/8	2.50	6.25	120A36	103208	55	1-3/8
40	19.959	120C40	105659	92.0	1-3/8	4-1/8	3.75	6.25	120A40	103209	71	
45	22.352	120C45	105660	99.2	1-3/8	4-1/8	3.75	6.25	120A45	103210	97	
60	29.522	120C60	105661	160	1-3/8	5-1/4	4.00	7.00	120A60	103211	170	

No. 120-2 for 1-1/2" Pitch Double Strand Chain



TYPE B

TYPE C

No. Teeth	Spkt. O.D.	Description +	Part No	Wt.	Bore		B	C Hub Dia.
					Stock	Max.		
11	6.010	D120B11	101270	13.6	1-1/2	2-3/8	3.75	3.56
12	6.500	D120B12	101271	17.3	1-1/2	2-3/4	3.75	4.06
13	6.990	D120B13	101272	21.1	1-1/2	3	3.75	4.50
14	7.470	D120B14	101273	25.6	1-1/2	3-5/16	3.75	5.00
15	7.960	D120B15	101274	29.9	1-1/2	3-5/8	3.75	5.50
16	8.440	D120B16	101275	33.8	1-1/2	3-1/2	3.75	5.25
17	8.920	D120B17	101276	36.9	1-1/2	3-1/2	3.75	5.25
18	9.410	D120B18	101277	41.9	1-1/2	3-1/2	3.75	5.25
19	9.890	D120B19	101278	46.5	1-1/2	3-1/2	3.75	5.25
20	10.370	D120B20	101279	50.2	1-1/2	3-1/2	3.75	5.25
21	10.850	D120B21	101280	55.6	1-1/2	3-1/2	3.75	5.50
22	11.330	D120B22	101281	64.0	1-1/2	3-13/16	4.00	5.75
23	11.810	D120B23	101282	75.0	1-1/2	4-1/4	4.00	6.50
24	12.290	D120B24	101283	79.0	1-1/2	4-1/4	4.00	6.50
25	12.770	D120B25	101284	84.0	1-1/2	4-1/4	4.00	6.50
26	13.250	D120B26	101285	90.0	1-1/2	4-1/4	4.00	6.50
30	15.170	D120B30	101286	119	1-1/2	4-1/2	4.00	6.50
35	17.570	D120C35	101287	148	2	5	6.00	7.50
45	22.350	D120C45	101288	188	2	5	6.00	7.50
60	29.520	D120C60	101289	307	2	6	6.25	9.00

Maximum Bores shown will accommodate Standard Keyseat and Setscrew over Key seat. Slightly larger Bores are possible with no Ks., Shallow Ks., or S.S. at angle to Ks.

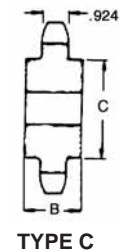
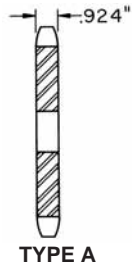
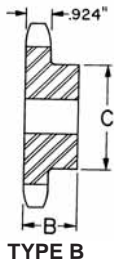
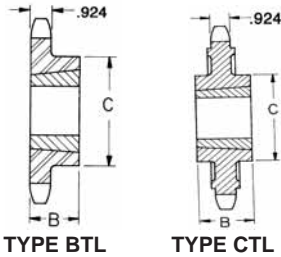
+ "H" suffix indicates Hardened Teeth.

See List Price Book MLP for alteration charges.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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No. **140** for 1-3/4" Pitch Single Strand Chain



TAPER-LOCK									
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B	
						Min.	Max.		
12	7.581	140BTL12H-2517	100653	7.6	4.25	1/2	2-11/16	1.75	
13	8.150	140BTL13H-3020	100654	9.6	5.25	7/8	3-1/4	2.0	
14	8.717	140BTL14H-3020	100655	11.3					
15	9.282	140BTL15H-3020	100656	12.7					
16	9.847	140BTL16H-3020	100657	14.6					
17	10.411	140BTL17H-3020	100658	17.5					
18	10.974	140BTL18H-3020	100659	19.3					
19	11.538	140BTL19H-3020	100660	21.2					
20	12.100	140BTL20H-3020	104769	26					
21	12.661	140BTL21H-3020	100661	28					
22	13.221	140BTL22H-3020	104770	34					
24	14.343	140BTL24H-3020	104771	40					
25	14.903	140BTL25H-3020	104772	43					
26	15.463	140BTL26-3020	100662	45					
35	20.494	140CTL35-3535	100264	80.3	6.50	1-3/16	3-15/16	3.5	
36	21.053	140CTL36-3535	104775	90					
45	26.077	140CTL45-4040	100266	120	7.75	1-7/16	4-7/16	4.0	
60	34.442	140CTL60-4040	100268	200					

REBORABLE-SPROCKETS										PLATE-TYPE A			
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore	
					Stock	Max.							
11	7.011	140B11	105161	11	1-3/8	2-3/4	2.25	4.25	140A11	103212	7	1-3/8	
12	7.581	140B12	105162	13	1-3/8	3	2.25	4.25	140A12	103213	9		
13	8.150	140B13	105163	17	1-3/8	3-3/4	2.38	5.25	140A13	103214	10		
14	8.717	140B14	105164	19	1-3/8	3-3/4	2.38	5.25	140A14	103215	11		
15	9.282	140B15	105165	24	1-3/8	4-1/4	2.50	6.25	140A15	103216	12		
16	9.847	140B16	105166	27	1-3/8	4-1/4	2.50	6.25	140A16	103217	15		
17	10.411	140B17	105167	29	1-3/8	4-1/4	2.50	6.25	140A17	103218	17		
18	10.974	140B18	105168	31	1-3/8	4-1/4	2.50	6.25	140A18	103219	19		
19	11.538	140B19	105169	32	1-3/8	4-1/4	2.50	6.25	140A19	103220	21		
20	12.100	140B20	105380	36	1-3/8	4-1/4	2.50	6.25	140A20	103221	23		
21	12.661	140B21	105170	39	1-3/8	4-1/4	2.50	6.25	140A21	103222	26		
26	15.463	140B26	105171	59	1-3/8	4-1/4	3.0	6.25	140A26	103223	41		
30	17.700	140B30	105382	70	1-3/8	4-1/4	3.0	6.25	140A30	103224	56		
32	18.820	140B32	105662	76	1-3/8	4-1/4	3.0	6.25	140A32	102250	60		
35	20.490	140C35	105663	108	1-3/8	5-1/4	4.0	7.0	140A36	103225	83		
36	21.053									103226	102		
40	23.286	140C40	105664	121	1-3/8	5-1/4	4.0	7.0		103227	122		
45	26.077	140C45	105665	142	1-3/8	5-1/4	4.0	7.0		103228	134		
48	27.750	140C48	105666	150	1-3/8	5-1/4	4.0	7.0	140A48	102251	134		
60	34.442	140C60	105667	220	1-3/8	5-3/8	5.0	7.50	140A60	103228	230		
70	40.020	140C70	105668	282	1-3/8	5-3/8	5.0	7.50	140A70	102252	292		
80	45.590	140C80	105669	331	1-3/8	5-3/8	5.0	7.50	140A80	102253	402		

+ "H" suffix indicates Hardened Teeth.

See List Price Book MLP for alteration charges.

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SPECIFICATION



No. 140-2 for 1-3/4" Pitch Double Strand Chain

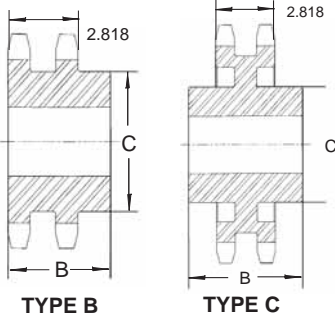
DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

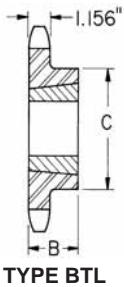
Engineering



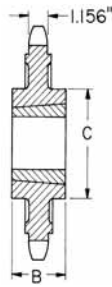
REBORABLE-TYPE B & C									
No. Teeth	Spkt. O.D.	Type	Description +	Part No.	Wt.	Bore		B	C Hub Dia.
						Stock	Max.		
13	8.150	B	D140B13	101290	29	1-1/2	3-1/2	3.75	5.31
14	8.720	B	D140B14	101291	34.8	1-1/2	4	3.75	5.88
15	9.280	B	D140B15	101292	42.5	1-1/2	3-1/2	3.75	5.25
16	9.850	B	D140B16	101293	48.1	1-1/2	4-1/4	4.0	6.25
17	10.410	B	D140B17	101294	57.5	1-1/2	4-1/4	4.0	6.25
18	10.980	B	D140B18	101295	65.6	1-5/8	4-3/4	4.0	7.0
19	11.540	B	D140B19	101296	72.0	1-5/8	4-3/4	4.0	7.0
20	12.100	B	D140B20	101297	76.0	1-5/8	4-3/4	4.0	7.0
21	12.660	B	D140B21	101298	82.0	1-5/8	4-3/4	4.0	7.0
22	13.220	B	D140B22	101299	94.0	1-5/8	4-3/4	4.0	7.0
23	13.780	B	D140B23	101300	100	1-5/8	4-3/4	4.0	7.0
24	14.340	B	D140B24	101301	104	1-5/8	4-3/4	4.0	7.0
25	14.900	B	D140B25	101302	120	1-5/8	4-3/4	4.0	7.0
26	15.460	B	D140B26	101303	128	1-5/8	4-3/4	4.0	7.0
35	20.490	C	D140C35	101304	180	2	5	6.0	7.50
45	26.080	C	D140C45	101305	232	2	5	5.0	7.50
60	34.440	C	D140C60	101306	372	2	6	6.25	9.0

Maximum Bores shown will accommodate Standard Keyseat and Setscrew over Key seat. Slightly larger Bores are possible with no Ks., Shallow Ks., or S.S. at angle to Ks.

No. 160 for 2" Pitch Single Strand Chain



TYPE BTL



TYPE CTL

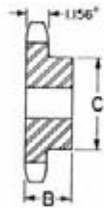
TAPER-LOCK								
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt. w/o Bush.	C Hub Dia.	Bore Range		B
						Min.	Max.	
11	8.012	160BTL11H-2517	100663	7.7	4.25	1/2	2-11/16	1.75
12	8.664	160BTL12H-3020	100664	11.5	6.50	7/8	3-1/4	3.0
13	9.314	160BTL13H-3020	100665	14.2				
14	9.962	160BTL14H-3020	100666	17.1				
15	10.608	160BTL15H-3535	100667	27.4				
17	11.898	160BTL17H-3535	100669	33.9	6.50	1-3/16	3-15/16	3.5
18	12.542	160BTL18H-3535	100670	38.4				
19	13.186	160BTL19H-3535	100671	41.7				
20	13.828	160BTL20H-3535	104781	57	6.50	1-3/16	3-15/16	3.5
21	14.470	160BTL21H-3535	100672	50				
23	15.752	160BTL23H-3535	104783	72				
24	16.390	160BTL24H-3535	100407	85				
26	17.672	160BTL26-3535	100673	88	7.75	1-7/16	4-7/16	4.0
35	23.422	160CTL35-4040	100294	106				
36	24.060	160CTL36-4040	104789	130				
60	39.362	160CTL60-4545	100298	253					8.75	1-15/16	4-15/16	4.5

+ "H" suffix indicates Hardened Teeth.

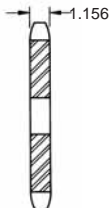
FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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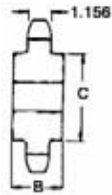
No. 160 for 2" Pitch Single Strand Chain



TYPE B



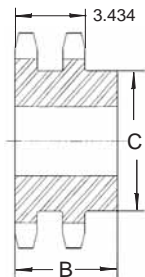
TYPE A



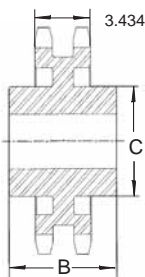
TYPE C

No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	REBORABLE-TYPE B				PLATE-TYPE A			
					Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore
					Stock	Max.						
11	8.012	160B11	105172	17	1-3/8	3-1/4	2.50	4.75	160A11	103229	12	1-3/8
12	8.664	160B12	105173	21	1-3/8	3-3/4	2.63	5.25	160A12	103230	14	
13	9.314	160B13	105174	29	1-3/8	4	2.75	6.0	160A13	103231	16	
14	9.962	160B14	105175	31	1-3/8	4-1/4	2.75	6.25	160A14	103232	20	
15	10.608	160B15	105176	39	1-3/8	5-1/4	2.75	7.0	160A15	103233	23	
16	11.254	160B16	105177	41	1-3/8	5-1/4	2.75	7.0	160A16	103234	26	1-3/8
17	11.898	160B17	105178	44	1-3/8	5-1/4	2.75	7.0	160A17	100235	29	
18	12.542	160B18	105179	48	1-3/8	5-1/4	2.75	7.0	160A18	103236	33	
19	13.186	160B19	105180	52	1-3/8	5-1/4	2.75	7.0	160A19	103237	35	
20	13.830	160B20	105670	56	1-3/8	5-1/4	2.75	7.0	160A20	102254	38	
21	14.470	160B21	105386	59	1-3/8	5-1/4	2.75	7.0	160A21	103238	42	1-3/8
22	15.110	160B22	105383	65	1-3/8	5-1/4	2.75	7.0	160A22	103295	46	
23	15.750	160B23	105671	68	1-3/8	5-1/4	2.75	7.0	160A23	102255	50	
24	16.390	160B24	105384	77	1-3/8	5-1/4	3.0	7.0	-	-	-	
25	17.030	160B25	105672	81	1-3/8	5-1/4	3.0	7.0	-	-	-	
26	17.670	160B26	105385	86	1-3/8	5-1/4	3.0	7.0	160A26	103239	65	1-3/8
27	18.310	160B27	105673	91	1-3/8	5-1/4	3.0	7.0	160A27	102256	71	
28	18.950	160B28	105674	98	1-3/8	5-1/4	3.0	7.0	160A28	102257	77	
30	20.230	160B30	105387	108	1-3/8	5-1/4	3.0	7.0	160A30	103240	90	
35	23.420	160C35	105675	154	1-3/8	5-1/2	4.50	8.0	160A35	103241	121	
40	26.610	160C40	105676	196	1-3/8	5-1/2	4.50	8.0	160A40	103242	138	
45	29.800	160C45	105677	234	1-3/8	5-1/2	5.0	8.0	160A45	103243	204	
54	35.540	160C54	105678	276	1-3/8	5-1/2	5.0	8.0	160A54	102258	294	
60	39.360	160C60	105679	329	1-3/8	5-1/2	5.0	8.0	160A60	103244	366	
70	45.730	160C70	105680	446	1-3/8	5-1/2	5.0	8.0	160A70	102259	507	
80	52.100	160C80	105681	612	1-3/8	5-1/2	6.0	8.0	160A80	102260	656	

No. 160-2 for 2" Pitch Double Strand Chain



TYPE B



TYPE C

No. Teeth	Type	Spkt. O.D.	Description +	Part No.	Wt.	REBORABLE-TYPE B & C			
						Bore		B	C Hub Dia.
						Stock	Max.		
13	B	9.310	D160B13	101307	48	2	3-1/2	4.75	5.25
14	B	9.960	D160B14	101308	58	2	3-1/2	4.75	5.25
15	B	10.610	D160B15	101309	68	2	3-1/2	4.75	5.25
16	B	11.260	D160B16	101310	75	2	4-3/4	4.75	7.0
17	B	11.900	D160B17	101311	91	2	4-3/4	4.75	7.0
18	B	12.540	D160B18	101312	96	2	4-3/4	4.75	7.0
19	B	13.190	D160B19	101313	107	2	4-3/4	4.75	7.0
20	B	13.830	D160B20	101314	119	2	4-3/4	4.75	7.0
21	B	14.470	D160B21	101315	130	2	5	5.0	7.50
22	B	15.110	D160B22	101316	141	2	5	5.0	7.50
23	B	15.750	D160B23	101317	157	2	5	5.0	7.50
24	B	16.390	D160B24	101318	171	2	5	5.0	7.50
25	B	17.030	D160B25	101319	187	2	5	5.0	7.50
26	B	17.670	D160B26	101320	201	2	5	5.0	7.50
35	C	23.420	D160C35	101321	306	2	6	6.25	9.0
45	C	29.800	D160C45	101322	431	2	6-3/4	7.13	10.0
60	C	39.360	D160C60	101323	564	2	6-3/4	7.13	10.0

Maximum Bores shown will accommodate Standard Keyseat and Setscrew over Key seat. Slightly larger Bores are possible with no Ks., Shallow Ks., or S.S. at angle to Ks.

+ "H" suffix indicates Hardened Teeth.

FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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SPECIFICATION



No. 180 for 2-1/4" Pitch Single Strand Chain

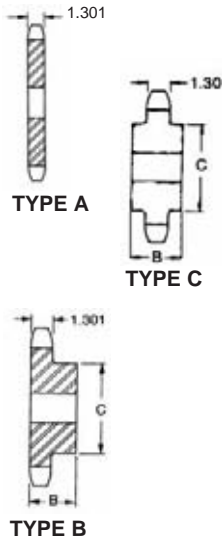
DYNA-SYNCH

HT Synchronous Belts

Sprockets

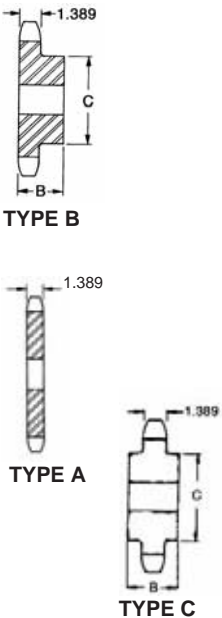
Conveyor Components

Engineering



REBORABLE-TYPE B & C											PLATE-TYPE A			
No. Teeth	Type	Spkt. O.D.	Description +	Part No.	Wt.	Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore	
						Stock	Max.							
11	B	9.010	180B11	105682	29	1-3/8	3-5/8	2.94	5.50	180A11	102261	14	1-3/8	
12	B	9.750	180B12	105683	32	1-3/8	4	2.94	6.0	180A12	102262	16	1-3/8	
13	B	10.480	180B13	105684	40	1-3/8	5-1/4	3.13	7.0	180A13	102263	20	1-3/8	
14	B	11.210	180B14	105685	44	1-3/8	5-1/4	3.13	7.0	180A14	102264	24	1-3/8	
15	B	11.930	180B15	105686	48	1-3/8	5-1/4	3.13	7.0	180A15	102265	28	1-3/8	
16	B	12.660	180B16	105687	52	1-3/8	5-1/4	3.13	7.0	180A16	102266	32	1-3/8	
17	B	13.390	180B17	105688	58	1-3/8	5-1/4	3.13	7.0	180A17	102267	37	1-3/8	
18	B	14.110	180B18	105689	63	1-3/8	5-1/4	3.13	7.0	180A18	102268	43	1-3/8	
19	B	14.830	180B19	105690	74	1-3/8	5-3/8	3.38	7.50	180A19	102269	47	1-3/8	
20	B	15.560	180B20	105691	81	1-3/8	5-3/8	3.38	7.50	180A20	102270	53	1-3/8	
21	B	16.280	180B21	105692	83	1-3/8	5-3/8	3.38	7.50	180A21	102271	57	1-3/8	
22	B	17.000	180B22	105693	92	1-3/8	5-3/8	3.38	7.50	180A22	102272	62	1-3/8	
23	B	17.720	180B23	105694	99	1-3/8	5-3/8	3.38	7.50	180A23	102273	69	1-3/8	
24	B	18.440	180B24	105695	105	1-3/8	5-3/8	3.38	7.50	180A24	102274	77	1-3/8	
25	B	19.160	180B25	105696	113	1-3/8	5-3/8	3.38	7.50	180A25	102275	84	1-3/8	
28	B	21.320	180B28	105697	135	1-3/8	5-1/2	3.69	8.0	180A28	102276	104	1-3/8	
30	C	22.760	180C30	105698	180	1-3/8	5-3/4	4.38	8.50	180A30	102277	120	1-3/8	
35	C	26.350	180C35	105699	222	1-3/8	5-3/4	4.38	8.50	180A35	102278	172	1-3/8	
40	C	29.940	180C40	105745	270	1-3/8	5-3/4	4.38	8.50	180A40	102279	229	1-3/8	
45	C	33.530	180C45	105746	315	1-3/8	6	5.0	9.0	180A45	102280	284	1-3/8	
54	C	39.980	180C54	105747	477	1-3/8	6	5.0	9.0	180A54	102281	420	1-3/8	
60	C	44.280	180C60	105748	489	1-3/8	6-1/2	5.38	9.50	180A60	102282	505	1-3/8	

No. 200 for 2-1/2" Pitch Single Strand Chain



REBORABLE-TYPE B & C											PLATE-TYPE A			
No. Teeth	Spkt. O.D.	Description +	Part No.	Type	Wt.	Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore	
						Stock	Max.							
10	9.200	200B10	105750	B	26	1-3/8	3-3/4	3.0	5.50	200A10	102283	16	1-3/8	
11	10.020	200B11	105751	B	33	1-3/8	4	3.0	6.0	200A11	102284	20	1-3/8	
12	10.830	200B12	105752	B	37	1-3/8	4	3.0	6.0	200A12	102285	24	1-3/8	
13	11.640	200B13	105753	B	46	1-3/8	4-1/4	3.0	6.25	200A13	102286	30	1-3/8	
14	12.460	200B14	105754	B	59	1-3/8	5-3/8	3.44	7.50	200A14	102287	32	1-3/8	
15	13.260	200B15	105755	B	64	1-3/8	5-3/8	3.44	7.50	200A15	102288	40	1-3/8	
16	14.070	200B16	105756	B	72	1-3/8	5-3/8	3.44	7.50	200A16	102289	46	1-3/8	
17	14.870	200B17	105757	B	76	1-3/8	5-3/8	3.44	7.50	200A17	102290	51	1-3/8	
18	15.680	200B18	105758	B	84	1-3/8	5-3/8	3.44	7.50	200A18	102291	57	1-3/8	
19	16.480	200B19	105759	B	91	1-3/8	5-3/8	3.44	7.50	200A19	102292	65	1-3/8	
20	17.290	200B20	105760	B	98	1-3/8	5-3/8	3.44	7.50	200A20	102293	72	1-3/8	
21	18.090	200B21	105761	B	106	1-3/8	5-3/8	3.44	7.50	200A21	102294	82	1-3/8	
22	18.890	200B22	105762	B	131	1-3/8	5-3/4	4.0	8.50	200A22	102295	88	1-3/8	
23	19.690	200B23	105763	B	136	1-3/8	5-3/4	4.0	8.50	200A23	102296	95	1-3/8	
24	20.490	200B24	105764	B	142	1-3/8	5-3/4	4.0	8.50	200A24	102297	105	1-3/8	
25	21.290	200B25	105765	B	153	1-3/8	5-3/4	4.0	8.50	200A25	102298	113	1-3/8	
26	22.090	200C26	105766	C	178	1-3/8	5-3/4	4.50	8.50	200A26	102299	124	1-3/8	
28	23.690	200C28	105767	C	195	1-3/8	5-3/4	4.50	8.50	200A28	102300	144	1-3/8	
30	25.290	200C30	105768	C	212	1-3/8	5-3/4	4.50	8.50	200A30	102301	167	1-3/8	
32	26.880	200C32	105769	C	220	1-3/8	5-3/4	4.50	8.50	200A32	102302	195	1-3/8	
35	29.280	200C35	105770	C	254	1-3/8	5-3/4	4.50	8.50	200A35	102303	227	1-3/8	
40	33.270	200C40	105771	C	320	1-3/8	6	5.0	9.0	200A40	102304	301	1-3/8	
45	37.250	200C45	105772	C	364	1-3/8	6	5.0	9.0	200A45	102305	390	1-3/8	
54	44.420	200C54	105773	C	512	1-3/8	6-1/2	5.50	9.50	200A54	102306	555	1-3/8	
60	49.200	200C60	105774	C	654	1-3/8	6-1/2	5.50	9.50	200A60	102307	692	1-3/8	

+ "H" suffix indicates Hardened Teeth.

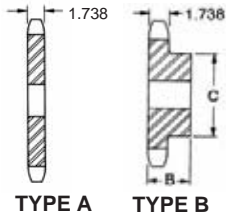
See List Price Book MLP for alteration charges.

Maximum Bores shown will accommodate Standard Keyseat and Setscrew over Key seat. Slightly larger Bores are possible with no Ks., Shallow Ks., or S.S. at angle to Ks.

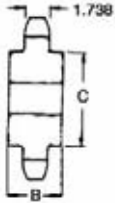
FEATURES/BENEFITS PAGE PT12-2	SELECTION PAGES PT12-28	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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No. 240 for 3" Pitch Single Strand Chain



TYPE A TYPE B



TYPE C

REBORABLE-TYPE B & C										PLATE-TYPE A			
No. Teeth	Spkt. O.D.	Description +	Part No.	Wt.	Type	Bore		B	C Hub Dia.	Spkt. No.	Part No.	Wt.	Stock Bore
						Stock	Max.						
10	11.030	240B10	105775	49	B	1-3/8	4-1/2	3.38	6.25	240A10	102308	30	1-3/8
11	12.020	240B11	105776	66	B	1-3/8	4-3/4	3.06	7.0	240A11	102309	37	1-3/8
12	13.000	240B12	105777	72	B	1-3/8	4-3/4	3.06	7.0	240A12	102310	45	1-3/8
13	13.970	240B13	105778	81	B	1-3/8	5-3/8	3.88	7.50	240A13	102311	54	1-3/8
14	14.940	240B14	105779	88	B	1-3/8	5-3/8	3.88	7.50	240A14	102312	62	1-3/8
15	15.910	240B15	105780	98	B	1-3/8	5-3/8	3.88	7.50	240A15	102313	68	1-3/8
16	16.880	240B16	105781	120	B	1-3/8	5-1/2	4.13	8.0	240A16	102314	82	1-3/8
17	17.850	240B17	105782	137	B	1-3/8	5-1/2	4.13	8.0	240A17	102315	93	1-3/8
18	18.810	240B18	105783	142	B	1-3/8	5-1/2	4.13	8.0	240A18	102316	108	1-3/8
19	19.780	240B19	105784	154	B	1-3/8	5-1/2	4.13	8.0	240A19	102317	120	1-3/8
20	20.740	240B20	105785	169	B	1-3/8	5-1/2	4.13	8.0	240A20	102318	128	1-3/8
21	21.710	240B21	105786	186	B	1-3/8	5-1/2	4.13	8.0	240A21	102319	148	1-3/8
25	25.550	240B25	105787	254	B	1-3/8	5-1/2	4.13	8.0	240A25	102320	208	1-3/8
30	30.340	240C30	105788	398	C	1-3/8	6	6.25	9.0	240A30	102321	310	1-3/8
35	35.130	240C35	105789	527	C	1-3/8	6	6.25	9.0	240A35	102322	416	1-3/8
40	39.920	240C40	105790	672	C	1-3/8	7	6.75	10.0	240A40	102323	548	1-3/8
45	44.700	240C45	105791	850	C	1-3/8	7	6.75	10.0	240A45	102324	702	1-3/8
54	53.310	240C54	105792	1148	C	1-3/8	7	6.75	10.0	240A54	102325	1022	1-3/8
60	59.040	240C60	105793	1419	C	1-3/8	7	6.75	10.0	240A60	102326	1268	1-3/8

+ "H" suffix indicates Hardened Teeth.



SPECIFICATION



Double Single Sprockets

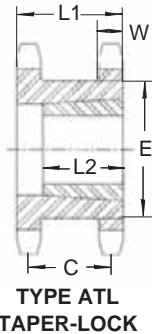
DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



No. 40		C=1.13 W=.284		TAPER-LOCK*				
No Teeth	Spkt. O.D.	E Dim.	Spkt. No.	Part No.	Bushing:		L Dim.	Wt. w/o Bush.
					No.	Max. Bore		
18	3.136	2.31	.....	.....	.....	.....	.....	.....
19	3.300	2.50	DS40ATL19H	101450	1215	1-1/4	1.41	1.1
20	3.460	2.63	DS40ATL20H	101451	1215	1-1/4	1.41	1.3
21	3.620	2.78	DS40ATL21H	101452	1615	1-11/16	1.41	1.3
22	3.780	2.94	.....	.....	.....	.....	.....	.....
23	3.940	3.09	DS40ATL23H	101453	1615	1-11/16	1.41	1.5
24	4.100	3.27	DS40ATL24H	101454	1615	1-11/16	1.41	1.7

No. 50		C=1.31 W=.343		TAPER-LOCK*				
No Teeth	Spkt. O.D.	E Dim.	Spkt. No.	Part No.	Bushing:		L Dim.	Wt. w/o Bush.
					No.	Max. Bore		
17	3.200	2.69	DS50ATL17H	101455	1615	1-11/16	1.64	1.8
18	3.920	2.89	DS50ATL18H	101456	1615	1-11/16	1.64	2.2
19	4.120	3.08	DS50ATL19H	101457	1615	1-11/16	1.64	2.7
20	4.320	3.28	.....	.....	.....	.....	.....	.....
21	4.520	3.48	DS50ATL21H	101458	2012	2-1/8	1.64	3.3
22	4.720	3.69	.....	.....	.....	.....	.....	.....
23	4.920	3.89	DS50ATL23H	101459	2012	2-1/8	1.64	3.7
24	5.120	4.08	DS50ATL24H	101460	2012	2-1/8	1.64	4.1

No. 60		C=1.48 W=.459		TAPER-LOCK*				
No Teeth	Spkt. O.D.	E Dim.	Spkt. No.	Part No.	Bushing:		L Dim.	Wt. w/o Bush.
					No.	Max. Bore		
17	4.460	3.22	DS60ATL17H	101461	1615	1-11/16	1.94	4.5
18	4.700	3.47	DS60ATL18H	101462	2012	2-1/8	1.94	5.0
19	4.950	3.70	DS60ATL19H	101463	2012	2-1/8	1.94	5.8
20	5.190	3.95	DS60ATL20H	101464	2517	2-11/16	1.94	5.6
21	5.430	4.19	DS60ATL21H	101465	2517	2-11/16	1.94	6.4
22	5.910	4.67	DS60ATL23H	101466	2517	2-11/16	1.94	7.3
23	6.150	4.91	DS60ATL24H	101467	2517	2-11/16	1.94	8.2

No. 80		C=1.63 W=.575		TAPER-LOCK*				
No Teeth	Spkt. O.D.	E Dim.	Spkt. No.	Part No.	Bushing:		L Dim.	Wt. w/o Bush.
					No.	Max. Bore		
17	5.950	4.31	DS80ATL17H	101468	2517	2-11/16	2.19	7.6
18	6.270	4.75	DS80ATL18H	101469	2517	2-11/16	2.19	8.7
19	6.590	4.95	DS80ATL19H	101470	3020	3-1/4	2.19	9.7
20	6.910	5.28	DS80ATL20H	101471	3020	3-1/4	2.19	10
21	7.240	5.59	DS80ATL21H	101472	3020	3-1/4	2.19	12
22	7.560	.....	.....	.....	.....	.....	.....	.....
23	7.880	6.23	DS80ATL23H	101473	3020	3-1/4	2.19	14.5

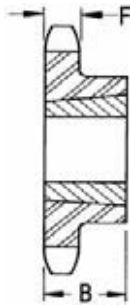
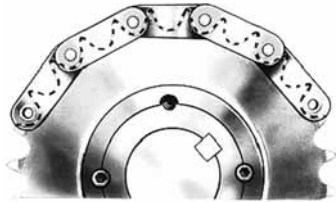
No. 100		C=2 W=.692		TAPER-LOCK*				
No Teeth	Spkt. O.D.	E Dim.	Spkt. No.	Part No.	Bushing:		L Dim.	Wt. w/o Bush.
					No.	Max. Bore		
16	7.030	5.00	DS100ATL16H	101474	2517	2-11/16	2.69	13
17	7.440	5.41	DS100ATL17H	101475	3020	3-1/4	2.69	14
18	7.840	5.80	DS100ATL18H	101476	3020	3-1/4	2.69	16
19	8.240	6.20	DS100ATL19H	101477	3020	3-1/4	2.69	20
20	8.640	6.61	.....	.....	.....	.....	.....	.....
21	9.040	7.00	DS100ATL21H	101478	3020	3-1/4	2.69	27.5

*TAPER-LOCK double single sprockets have hardened teeth.

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TAPER-LOCK Type B Extended Pitch Sprockets



- Special pitch diameter for Extended Pitch Roller Chain
- Chain engages every other tooth
- Effective no. of teeth equals 1/2 the actual no. of teeth.
- Odd no. of teeth preferred to automatically balance wear on sprocket.
- Use standard TAPER-LOCK sprockets for 35 for more teeth.

2040/C2040

for 1" Double Pitch Drive
or Conveyor Chain

Sprocket No.-Bushing +	Part No.	No. of Teeth	Effective No. of Teeth	Outside Diam.	Max. Bore.
2040BTL17H-1008	104877	17	8-1/2	2.97	1
2040BTL19H-1210	104878	19	9-1/2	3.29	1-1/4
2040BTL23H-1610	104879	23	11-1/2	3.93	1-11/16
2040BTL25H-1610	104880	25	12-1/2	4.26	1-11/16
2040BTL31H-1610	104881	35	17-1/2	5.85	1-11/16

2080/C2080

for 2" Double Pitch Drive
or Conveyor Chain

Sprocket No.-Bushing +	Part No.	No. of Teeth	Effective No. of Teeth	Outside Diam.	Max. Bore.
2080BTL17-2012	104898	17	8-1/2	5.95	2-1/8
2080BTL19-2517	104899	19	9-1/2	6.59	2-11/16
2080BTL20-2517	104900	20	10	6.91	2-11/16
2080BTL21-2517	104901	21	10-1/2	7.24	2-11/16
2080BTL23-2517	104902	23	11-1/2	7.88	2-11/16
2080BTL25-2517	104903	25	12-1/2	8.52	2-11/16
2080BTL27-2517	104904	27	13-1/2	9.16	2-11/16
2080BTL31-2517	104905	31	15-1/2	10.43	2-11/16
2080BTL35-2517	104906	35	17-1/2	11.71	2-11/16

TAPER-LOCK extended pitch sprockets are standard non-stock. Allow 2-4 weeks for delivery.

2050/C2050

for 1-1/4" Double Pitch Drive
or Conveyor Chain

Sprocket No.-Bushing +	Part No.	No. of Teeth	Effective No. of Teeth	Outside Diam.	Max. Bore.
2050BTL17H-1210	104882	17	8-1/2	3.71	1-1/4
2050BTL18H-1210	104883	18	9	3.20	1-1/4
2050BTL19H-1610	104884	19	9-1/2	4.11	1-11/16
2050BTL20H-1610	104885	20	10	4.32	1-11/16
2050BTL21H-1610	104886	21	10-1/2	4.52	2-11/16
2050BTL25-2012	104887	25	12-1/2	5.32	2-1/8
2050BTL35-2012	104888	35	17-1/2	7.32	2-1/8

2060/C2060

for 1-1/2" Double Pitch Drive
or Conveyor Chain

Sprocket No.-Bushing +	Part No.	No. of Teeth	Effective No. of Teeth	Outside Diam.	Max. Bore.
2060BTL17H-1610	104889	17	8-1/2	4.46	1-11/16
2060BTL19H-1610	104890	19	9-1/2	4.95	1-11/16
2060BTL20-1610	104891	20	10	5.19	1-11/16
2060BTL21-2012	104892	21	10-1/2	5.43	2-1/8
2060BTL23-2012	104893	23	11-1/2	5.91	2-1/8
2060BTL25-2012	104894	25	12-1/2	6.39	2-1/8
2060BTL27-2012	104895	27	13-1/2	6.87	2-1/8
2060BTL31-2012	104896	31	15-1/2	7.83	2-1/8
2060BTL35-2012	104897	35	17-1/2	8.78	2-1/8

+ "H" suffix indicates Hardened Teeth.

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Roller Chain Drive Selection



EASY SELECTION METHOD

1. Determine Class of Service: Refer to tabulation below, or select from the following:

Class A: Fairly uniform running load. Start-up and peak loads occur infrequently.

Class B: Variable running load. Higher starting and peak loads, occurring more frequently.

Class C: Heavy starting loads. Peak loads and overloads occurring frequently.

2. Select Service Factor:

Class of Service	Type of Input Power		
	Internal Combustion Engine with Hydraulic Drive	Electric or Turbine	Internal Combustion Engine with Mechanical Drive
A	1.0	1.0	1.2
B	1.2	1.3	1.4
C	1.4	1.5	1.7

3. Calculate Design Horsepower: Motor HP x Service Factor, or normal running HP x Service Factor.

4. Determine Chain Size and Smaller (Usually the Driver) sprocket number of teeth: Refer to "Recommended Smaller Sprocket" table on page PT12-30, PT12-31. Start at column that is at or above the calculated design HP. Trace down to the row that includes the RPM of the faster (Usually the Driver) shaft. The chain pitch and sprocket No. of Teeth are listed at this intersection.

5. Calculate Drive Ratio: Faster shaft Rpm divided by Slower shaft RPM.

6. Determine Size of Large Sprocket: Multiply smaller sprocket No. teeth by ratio. Select Closest stock available sprocket.

7. Calculate Chain Length "L":

$$L = 2c + 1.57(D + d) + \frac{(D - d)^2}{4c}$$

Where: D = Pitch dia. large sprocket, (see page)

d = Pitch dia. small sprocket, (see page)

c = Proposed center distance

(Accuracy is within .15% chain length)

Divide chain length (inches) by chain pitch to determine number of pitches in the chain. Good practice is to use an even number of pitches, including connecting link.

Class of Service for Driven Machine

Driven Machine	Class	Driven Machine	Class
Agitators, liquid or semi-liquid stock, paddle or propeller	A	Line Shafts:	
Bakery Machinery	B	Light or normal service	A
Beaters	B	Unevenly loaded	B
Blowers, Centrifugal	A	Machines, Non-Reversing:	
Boat Paddle Wheels or Propellers	C	Even load	A
Centrifuges	C	Pulsating load	B
Clay Working Machinery:		Impact load	C
Extruders, Granulators, Mixers, Pug Mills, Rolls	B	Mills:	
Briquette Machine, Presses	C	Ball, Pebble, Rod, Tube	B
Compressors:		Blooming, Hammer, Hardinge, Rolling	C
Centrifugal, Rotary	B	Paper Machinery:	
Reciprocating	C	Agitators, Calenders, Dryers, Jordan Engines, Paper Machines, Pulp Grinders	B
Conveyors:		Beaters, Chippers, Nash Pumps, Washers, Winder Drums, Yankee Dryers	C
Uniformly or loaded	A	Presses	C
Irregularly fed or loaded	B	Printing Machinery	B
Reciprocating	C	Pumps:	
Cookers, Cereal	A	Centrifugal, Gear, Rotary	A
Cranes	B	Dredge	C
Crushers	C	Reciprocating, 1 or 2 cylinder	C
Elevators:		Reciprocating, 3 or more cylinder	B
Uniformly fed or loaded	A	Rubber Plant Machinery:	
Irregularly fed or loaded	B	Banbury Mills, Calenders, Mixers	C
Fans:		Screens:	
Centrifugal	A	Air Washing, Water	A
Mine, Positive Blowers, Propeller	C	Rotary (Stone or Gravel), Vibrating	B
Feeders, Reciprocating	C	Textile Machinery:	
Flour, Feed or Cereal Mill Machinery	B	Batcher, Calender, Dry Can, Dyeing Machinery	A
Generators	A	Loom, Mangel, Napper, Soaper, Spinner, Tender	B
Hogs for Refuse	C	Frame	B
Kettles, Brew	A	Card Machine	C
Kilns and Dryers, rotary	B	Woodworking Machinery	B
Laundry Machinery	B		

FEATURES/BENEFITS PAGE PT12-2	SPECIFICATION PAGES PT12-3	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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SELECTION EXAMPLE

A chain drive is required for a tumbling barrel for metal stampings. The barrel is to run at 24 RPM from a speed reducer output of 77 RPM. Center distance is 50". Input power is from a 5 HP electric motor. Starting loads are heavy, peak loads and overloads are frequent.

- Service Factor:** Class of service is not listed in table, so refer to Class Description. Class C is appropriate. Service Factor Table shows 1.5 Class C driven by an electric motor.
- Design HP:** Motor HP x S.F. $5 \times 1.5 = 7.5$ Design HP.
- Chain and Small Sprocket Size:** Refer to the 7-1/2 HP column of the Easy Selection Table. Trace down to the row that includes 77 RPM, "71-80 RPM". No. 100 chain and sprocket with 15 teeth is shown: select 100BTL15.
- Drive Ratio:** $77/24 = 3.21:1$.
- Large Sprocket:** $15 \times 3.21 = 48.15$. Select a 48 tooth driven sprocket, 100BTL48, which is a stock size.
- Chain Length:**

$$L = 2(50) + 1.57(19.113 + 6.013) + \frac{(19.113 - 6.013)^2}{4 \times 50}$$

$$L = 140.31" \text{ (No.100 Chain has } 1\text{-}1/4 \text{ or } 1.25" \text{ Pitch)}$$

Length in pitches = $140.31/1.25 = 112.48$ pitches.

Choose 112 or 114 Pitches of chain, including Conn Link.

7. Verify that sprockets will fit shaft sizes.

DESIGN NOTES

Small Sprocket Size: The higher RPM and the fewer the number of teeth on the small sprocket, the greater the wear.

This leads to some general guidelines:

- Use at least 17 teeth sprocket for 100+ RPM.
- Avoid high ratios that require very small sprockets

Lubrication: Chain drives must be lubricated and kept clean. The most effective method to accomplish this is to use an oil-tight chain guard with an oil sump. Manual lubrication is effective on slower speed drives, but exposure to dirt and contamination will be a problem for the drive.

Design Refinement: The "Easy Selection Method" is a good starting point for further design refinement, if desired. Refer to the Chain HP Rating Tables on the following pages for more precise ratings. also refer to "Slow Speed Drives" which follows this section.

SLOW SPEED DRIVES

Where linear speed of the chain is under 100 fpm and loading is uniform, roller chain drives may be selected on the basis of chain pull rather than horsepower rating. This often results in significant savings.

When chain length is more than 50 pitches, the maximum applied load may be as great as 1/7 of the ultimate tensile strength of the chain for speeds below 50 fpm to 100 fpm.

Unusual load variations of peak loads require other methods of determining the maximum applied load.

Chain pull may be calculated by the following formula:

$$\text{Chain Pull (lbs.)} = \frac{\text{Design HP} \times 126,000}{\text{rpm} \times \text{Pitch diam.}}$$

Table below offers a simplified method of determining allowable chain pull for slow speed drives. The table also shows revolutions per minute for a given pitch diameter at 50 and 100 feet per minute. Average tensile strength for all popular roller chain is given on PT12-44.

Information for Slow Speed Drives

Chain No.	Allowable Chain Pull for STD. Chain		RPM for a Given Pitch Diam. at Various Speeds		
	Max. Chain Pull		P.D. in inches	@ 50 fpm RPM	@ 100 fpm RPM
	@ 50 fpm or less	@ 50-100 fpm			
40	528	462	2	95.0	191.0
50	871	762	3	63.6	127.2
60	1214	1062	4	47.7	95.5
80	2071	1812	5	38.2	76.4
100	3428	3000	6	31.8	63.7
120	4857	4250	7	27.3	54.6
140	6571	5750	8	23.9	47.8
160	8285	7250	9	21.2	42.4
180	11,428	10,000	10	19.1	38.2
200	13,571	11,875	11	17.3	34.7
240	18,571	16,250	12	15.9	31.8

Note: Smaller sprockets can be used on slow speed drives as the effects of chordal action are not pronounced. However, small sprockets of fewer than 9 teeth should be avoided.

MULTIPLE STRAND CHAIN DRIVES

Single Strand drives offer cost and availability advantages, and are more easily assembled. Multiple strand drives can be used to solve design problems of greater HP capacity or space constraints. For multiple strand drives, divide the calculated Design HP by the factors below, and select from the ratings for single strand drives:

Multiple Strand Factors	
Single:	1.0
Double	1.9
Triple:	2.8



SELECTION



Easy Selection Table

RECOMMENDED SMALL SPROCKET

RPM of small Sprocket	Chain Size and No. of Teeth for Design HP											
	1/4	1/3	1/2	3/4	1	1-1/2	2	3	4	5	6	7-1/2
951-1000	35 17	35 17	35 17	35 17	35 17	35 17	35 17	35 23	40 17	40 17	40 20	40 24
901-950	35 17	35 17	35 17	35 17	35 17	35 17	35 17	35 24	40 17	40 18	40 21	40 25
851-900	35 17	35 17	35 17	35 17	35 17	35 17	35 17	35 24	40 17	40 18	40 22	50 17
801-850	35 17	35 17	35 17	35 17	35 17	35 17	35 18	40 17	40 17	40 19	40 23	50 17
751-800	35 17	35 17	35 17	35 17	35 17	35 17	35 19	40 17	40 17	40 20	40 24	50 17
701-750	35 17	35 17	35 17	35 17	35 17	35 17	35 20	40 17	40 18	40 22	40 25	50 17
651-700	35 17	35 17	35 17	35 17	35 17	35 17	35 22	40 17	40 19	40 23	50 17	50 18
601-650	35 17	35 17	35 17	35 17	35 17	35 17	35 18	35 23	40 17	40 20	40 24	50 19
551-600	35 17	35 17	35 17	35 17	35 17	35 17	35 19	40 17	40 17	40 21	50 17	50 21
501-550	35 17	35 17	35 17	35 17	35 17	35 17	35 21	40 17	40 17	40 23	50 17	50 22
471-500	35 17	35 17	35 17	35 17	35 17	35 17	35 22	40 17	40 17	40 24	50 17	50 24
441-470	35 17	35 17	35 17	35 17	35 17	35 17	35 23	40 17	40 17	50 17	50 17	50 25
411-440	35 17	35 17	35 17	35 17	35 17	40 17	40 17	40 21	50 17	50 18	50 22	60 17
381-410	35 17	35 17	35 17	35 17	35 17	40 17	40 17	40 22	50 17	50 19	50 23	60 17
351-380	35 17	35 17	35 17	35 17	35 17	40 17	40 17	40 24	50 17	50 21	50 24	60 18
321-350	35 17	35 17	35 17	35 17	35 17	40 17	40 18	50 17	50 18	50 22	60 17	60 20
301-320	35 17	35 17	35 17	35 17	35 17	40 17	40 19	50 17	50 19	50 23	60 17	60 21
281-300	35 17	35 17	35 17	35 17	35 17	40 17	40 19	50 17	50 20	50 25	60 18	60 22
261-280	35 17	35 17	35 17	35 17	35 17	40 17	40 19	50 17	50 22	60 17	60 19	60 23
241-260	35 17	35 17	35 17	35 17	35 17	40 17	40 19	50 18	50 23	60 17	60 20	80 17
221-240	35 17	35 17	35 17	35 17	35 17	40 19	40 24	50 19	50 25	60 19	60 22	80 17
201-220	35 17	35 17	35 17	35 17	35 17	40 20	50 17	50 21	60 17	60 20	60 24	80 17
181-200	35 17	35 17	35 18	35 17	35 17	40 22	50 17	50 23	60 18	60 22	60 26	80 17
161-180	35 17	35 17	35 20	40 18	35 17	40 24	50 17	50 25	60 20	60 24	80 17	80 17
151-160	35 17	35 17	35 21	40 18	35 17	50 17	50 18	60 17	60 21	60 25	80 17	80 17
141-150	35 15	35 15	35 22	40 18	40 15	50 17	50 19	60 17	60 22	80 17	80 17	80 18
131-140	35 15	35 15	35 23	40 18	40 15	50 17	50 20	60 18	60 23	80 17	80 17	80 19
121-130	35 15	35 15	40 13	40 18	40 15	50 17	50 22	60 19	60 25	80 17	80 17	80 20
111-120	35 15	35 15	40 13	40 18	40 15	50 18	50 22	60 20	80 15	80 17	80 18	80 22
101-110	35 15	35 15	40 15	40 18	50 15	50 19	60 15	80 15	80 15	80 16	80 19	100 15
91-100	35 15	35 15	40 15	40 15	40 17	50 15	50 18	60 17	80 15	80 18	100 15	100 15
81-90	35 15	35 15	40 15	40 15	50 15	50 15	50 18	60 18	80 15	80 15	80 16	100 15
71-80	35 15	35 17	40 15	40 16	50 15	50 18	60 14	80 15	80 15	80 16	100 15	100 15
61-70	35 15	35 19	40 15	40 19	50 15	60 15	60 16	80 15	80 15	80 18	100 15	100 15
51-60	35 17	40 13	40 15	50 13	50 15	60 15	60 19	80 15	80 17	100 15	100 15	100 16
46-50	40 13	40 13	40 16	50 13	50 16	60 14	80 13	80 13	100 13	100 13	100 14	100 17
41-45	40 13	40 13	40 18	50 16	60 13	60 16	80 13	80 14	100 13	100 13	100 16	120 13
35-40	40 13	40 14	50 13	50 16	60 13	60 19	80 13	80 17	100 13	100 14	100 18	120 14
30-35	40 13	40 16	50 13	50 18	60 15	80 13	80 13	80 19	100 13	100 16	120 13	120 14
23-29	40 14	50 13	50 16	60 14	60 19	80 13	80 17	100 13	100 16	120 14	120 15	120 18
17-22	50 13	50 14	60 13	60 19	80 13	80 17	100 13	100 17	120 13	120 16	140 13	140 16
12-16	50 15	60 13	60 18	80 13	80 16	100 13	100 16	120 14	120 18	140 15	140 17	160 15
8-11	60 14	60 18	80 13	80 18	100 13	100 17	120 14	140 13	140 17	160 15	160 18	180 18
5-7	80 13	80 13	100 13	100 13	100 18	120 17	140 14	180 15	180 14	200 13	200 15	240 13

Notes:

- Apply Service Factor to obtain Design Horsepower. Select small sprocket based upon Design Horsepower and RPM on this chart.
- Sprocket selections are recommended minimum. Larger sizes may be selected if required to obtain desired ratio, etc.
- To use this chart for double or triple strand chain, divide the design horsepower by the following factors:
Double strand: 1.9, Triple strand: 2.9

FEATURES/BENEFITS PAGE PT12-2	SPECIFICATION PAGES PT12-3	RELATED PRODUCTS PAGES PT12-40	ENGINEERING/TECHNICAL PAGES PT12-42
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Easy Selection Table

RECOMMENDED SMALL SPROCKET

RPM of small Sprocket	Chain Size and No. of Teeth for Design HP													
	9	10	12	15	20	25	30	40	50	60	70	80	90	100
951-1000	50 17	50 17	50 20	60 17	60 20	60 24	80 17	80 18						
901-950	50 17	50 18	50 21	60 17	60 21	80 17	80 17	80 18						
851-900	50 17	50 19	50 22	60 17	60 22	80 17	80 17	80 19						
801-850	50 18	50 20	50 23	60 17	60 23	80 17	80 17	80 20						
751-800	50 19	50 21	60 16	60 18	60 24	80 17	80 17	80 21						
701-750	50 20	50 22	60 17	60 19	60 25	80 17	80 17	80 22	100 17					
651-700	50 21	50 24	60 17	60 21	80 17	80 17	80 18	80 23	100 17					
601-650	50 23	60 16	60 18	60 22	80 17	80 17	80 19	100 17	100 17					
551-600	50 24	60 17	60 19	60 24	80 17	80 18	80 21	100 17	100 18					
501-550	60 17	60 18	60 21	80 17	80 17	80 19	80 22	100 17	100 20					
471-500	60 17	60 19	60 22	80 17	80 17	80 20	80 23	100 17	100 21	100 24	120 17			
441-470	60 18	60 20	60 23	80 17	80 17	80 21	100 17	100 18	100 22	120 17	120 18			
411-440	60 19	60 21	80 16	80 17	80 18	80 22	100 17	100 19	120 17	120 17	120 21			
381-410	60 20	60 22	80 17	80 17	80 19	80 24	100 17	100 20	120 17	120 18	120 21			
351-380	60 22	60 24	80 17	80 17	80 21	100 17	100 17	100 21	120 18	120 19	140 17			
321-350	60 23	80 17	80 17	80 17	80 22	100 17	100 18	100 24	120 19	120 21	140 17	140 18	140 21	
301-320	80 17	80 17	80 17	80 18	80 23	100 17	100 19	100 24	120 21	140 17	140 17	140 19	140 21	
281-300	80 17	80 17	80 17	80 19	100 17	100 17	100 20	120 17	120 21	140 17	140 18	140 21	160 17	
261-280	80 17	80 17	80 17	80 20	100 17	100 18	100 21	120 17	120 21	140 17	140 19	160 17	160 17	
241-260	80 17	80 17	80 18	80 22	100 17	100 19	100 22	120 18	140 17	140 17	140 21	160 18	160 18	160 20
221-240	80 17	80 17	80 19	80 23	100 17	100 20	100 24	120 21	140 17	140 19	160 17	160 18	160 20	160 22
201-220	80 17	80 17	80 20	100 17	100 18	100 22	120 17	120 21	140 17	160 17	160 17	160 19	180 17	160 23
181-200	80 17	80 19	80 22	100 17	100 20	100 24	120 18	140 17	140 19	160 18	160 18	160 20	180 18	180 18
161-180	80 19	80 21	80 25	100 17	100 22	120 17	120 21	140 17	140 21	160 19	160 21	180 17	180 19	180 21
151-160	80 20	80 22	100 17	100 18	100 24	120 17	120 21	140 18	160 19	160 19	160 21	180 18	180 20	200 17
141-150	80 21	100 15	100 17	100 19	100 24	120 18	140 16	140 19	160 19	160 21	180 17	180 19	200 16	200 17
131-140	80 22	100 15	100 17	100 20	120 17	120 21	140 17	140 21	160 19	160 21	180 18	180 19	200 18	200 19
121-130	80 24	100 16	100 17	100 21	120 18	120 21	140 17	140 21	160 19	180 17	180 19	200 17	200 19	200 21
111-120	100 15	100 17	100 18	100 24	120 19	120 21	140 18	160 17	160 21	180 18	180 21	200 18	200 20	200 23
101-110	100 15	100 17	120 15	120 15	140 15	140 16	140 19	160 17	180 16	180 19	200 17	200 19	200 21	240 18
91-100	100 17	100 20	120 15	120 18	140 16	140 19	160 16	160 19	180 19	200 16	200 18	200 21	240 15	240 18
81-90	100 18	100 15	120 16	120 18	140 17	140 19	160 17	160 21	200 15	200 18	200 21	200 23	240 18	240 18
71-80	100 15	120 15	120 18	120 18	140 18	160 15	160 18	180 17	200 17	200 19	240 15	240 16	240 19	240 20
61-70	100 16	120 18	120 19	140 15	160 15	160 19	180 15	200 15	200 19	240 15	240 17	240 19	240 21	240 23
51-60	100 19	120 15	120 15	140 18	160 16	160 15	180 18	200 18	240 15	240 17	240 19	240 22	240 25	240 26
46-50	120 13	120 14	120 16	140 13	160 13	180 16	200 15	200 19	240 15	240 18	240 20	240 24	....	....
41-45	120 14	120 15	120 18	140 15	160 14	180 14	200 16	200 21	240 17	240 20	240 23	240 26	....	....
35-40	120 16	120 18	140 14	140 17	160 16	180 13	180 15	240 15	240 19	240 23	240 26	....	....	....
30-35	120 19	140 13	140 16	160 14	160 18	180 15	180 18	240 13	240 21	240 25	....	....	....	....
23-29	140 14	140 15	160 13	160 18	180 16	200 15	200 17	240 14	240 18	240 27	....	....	....	....
17-22	160 13	160 15	180 13	180 16	200 16	240 13	240 13	240 15	240 24	....	....	....	....	....
12-16	160 18	180 13	180 16	200 15	240 13	240 15	240 21	240 27	....	....	....	....	....	....
8-11	200 13	200 15	200 18	240 14	240 18	240 23	....	....	....	....	....	....	....	....
5-7	240 13	240 15	240 17	240 22	240 29	....	....	....	....	....	....	....	....	....

4. Sprocket selections above the bold line are based upon ANSI horsepower ratings. Selections below the bold line are based upon the chain pull formula for slow speed drives.

5. To achieve design life keep chain free of dirt and contaminants, and apply appropriate lubrication.



SELECTION



DYNA-SYNCH

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Basic Horsepower Ratings

35 3/8" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	50	75	100	150	200	250	300	400	500	600	700	800	900	1000	1200	1500	1800	2100	2500	3000	3500	4000
9	0.08	0.12	0.15	0.21	0.27	0.33	0.39	0.50	0.62	0.73	0.84	0.95	1.06	1.21	1.37	1.68	1.98	2.27	2.65	2.17	1.73	1.41
10	0.09	0.13	0.16	0.23	0.30	0.37	0.44	0.57	0.70	0.82	0.95	0.98	1.02	1.28	1.54	1.88	2.21	2.54	2.97	2.55	2.02	1.65
11	0.10	0.14	0.18	0.26	0.34	0.41	0.49	0.63	0.77	0.91	1.05	1.18	1.31	1.51	1.70	2.08	2.45	2.82	3.30	2.94	2.33	1.91
12	0.11	0.16	0.20	0.28	0.37	0.46	0.54	0.70	0.85	1.00	1.15	1.30	1.44	1.66	1.87	2.29	2.70	3.10	3.62	3.35	2.66	2.17
13	0.01	0.12	0.22	0.31	0.41	0.50	0.59	0.76	0.93	1.10	1.26	1.42	1.57	1.81	2.04	2.49	2.94	3.38	3.95	3.77	3.00	2.45
14	0.13	0.19	0.24	0.34	0.44	0.53	0.63	0.82	1.01	1.19	1.36	1.54	1.71	1.96	2.21	2.70	3.18	3.66	4.28	4.22	3.35	2.74
15	0.14	0.20	0.25	0.36	0.47	0.57	0.68	0.88	1.08	1.28	1.47	1.66	1.84	2.11	2.38	2.91	3.43	3.94	4.61	4.68	3.71	3.04
16	0.15	0.21	0.27	0.39	0.50	0.62	0.73	0.95	1.16	1.37	1.57	1.77	1.97	2.26	2.55	3.12	3.68	4.22	4.94	5.15	4.09	3.35
17	0.16	0.23	0.29	0.41	0.54	0.66	0.78	1.01	1.24	1.46	1.68	1.89	2.10	2.42	2.73	3.33	3.93	4.51	5.28	5.64	4.48	3.67
18	0.17	0.24	0.31	0.44	0.57	0.70	0.83	1.08	1.32	1.55	1.78	2.01	2.24	2.57	2.90	3.45	4.18	4.80	5.61	6.15	4.88	3.99
19	0.18	0.26	0.33	0.47	0.61	0.74	0.88	1.14	1.40	1.65	1.89	2.13	2.37	2.70	3.02	3.76	4.43	5.09	5.95	6.67	5.29	4.33
20	0.19	0.27	0.35	0.50	0.64	0.78	0.93	1.21	1.48	1.74	2.00	2.26	2.51	2.88	3.25	3.97	4.68	5.38	6.29	7.20	5.72	4.68
21	0.20	0.29	0.37	0.52	0.68	0.83	0.98	1.27	1.56	1.84	2.11	2.38	2.64	3.03	3.42	4.19	4.93	5.67	6.63	7.75	6.15	5.03
22	0.21	0.30	0.38	0.54	0.71	0.87	1.03	1.34	1.64	1.93	2.22	2.50	2.78	3.19	3.60	4.40	5.19	5.96	6.97	8.21	6.59	5.40
23	0.22	0.31	0.40	0.57	0.74	0.91	1.08	1.40	1.72	2.03	2.33	2.63	2.92	3.35	3.78	4.62	5.44	6.25	7.31	8.62	7.05	5.77
24	0.23	0.33	0.42	0.60	0.78	0.96	1.14	1.47	1.80	2.12	2.44	2.75	3.05	3.51	3.96	4.84	5.70	6.55	7.66	9.02	7.51	6.15
25	0.24	0.34	0.44	0.63	0.82	1.00	1.19	1.54	1.88	2.21	2.55	2.87	3.19	3.66	4.13	5.05	5.95	6.84	8.00	9.43	7.99	6.54
26	0.25	0.36	0.46	0.66	0.85	1.05	1.24	1.60	1.96	2.31	2.66	3.00	3.33	3.82	4.31	5.27	6.21	7.13	8.35	9.84	8.47	6.93
28	0.27	0.39	0.50	0.71	0.92	1.13	1.34	1.73	2.12	2.50	2.88	3.25	3.61	4.14	4.67	5.71	6.73	7.73	9.05	10.7	9.47	7.75
30	0.29	0.42	0.54	0.77	1.00	1.22	1.45	1.87	2.29	2.70	3.10	3.50	3.89	4.46	5.03	6.15	7.25	8.33	9.74	11.5	10.5	8.59
32	0.31	0.45	0.58	0.83	1.07	1.31	1.56	2.01	2.45	2.88	3.32	3.75	4.17	4.79	5.40	6.60	7.77	8.93	10.0	12.3	11.6	9.47
35	0.33	0.49	0.64	0.91	1.18	1.44	1.71	2.21	2.70	3.18	3.66	4.08	4.50	5.23	5.96	7.27	8.56	9.84	11.5	13.6	13.2	10.8
40	0.39	0.56	0.73	1.04	1.35	1.66	1.97	2.55	3.12	3.68	4.23	4.77	5.30	6.09	6.87	8.40	9.89	11.4	13.3	15.7	16.2	13.2
45	0.45	0.64	0.83	1.18	1.54	1.89	2.24	2.90	3.55	4.18	4.80	5.41	6.02	6.91	7.80	9.53	11.2	12.9	15.1	17.8	19.3	15.8
	TYPE A							TYPE B							TYPE C							

41 1/2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.02	0.05	0.10	0.14	0.19	0.28	0.36	0.44	0.51	0.59	0.66	0.74	0.81	0.96	1.10	1.24	1.38	1.52	1.27	1.01	0.82	0.69
10	0.03	0.06	0.11	0.16	0.21	0.31	0.40	0.49	0.57	0.66	0.74	0.83	0.91	1.07	1.23	1.39	1.54	1.70	1.49	1.18	0.96	0.81
11	0.03	0.07	0.13	0.19	0.24	0.34	0.44	0.54	0.64	0.73	0.82	0.92	1.01	1.19	1.37	1.54	1.71	1.88	1.71	1.36	1.11	0.93
12	0.03	0.07	0.14	0.20	0.26	0.38	0.49	0.60	0.70	0.81	0.91	1.01	1.11	1.31	1.50	1.69	1.88	2.07	1.95	1.55	1.27	1.06
13	0.03	0.08	0.15	0.22	0.28	0.40	0.53	0.64	0.76	0.88	0.99	1.10	1.21	1.42	1.63	1.84	2.05	2.25	2.20	1.75	1.43	1.20
14	0.03	0.09	0.16	0.24	0.31	0.44	0.57	0.70	0.83	0.95	1.07	1.19	1.31	1.54	1.77	2.00	2.22	2.44	2.46	1.95	1.60	1.34
15	0.04	0.09	0.18	0.26	0.33	0.48	0.62	0.76	0.89	1.02	1.15	1.28	1.41	1.66	1.91	2.15	2.39	2.63	2.73	2.17	1.77	1.49
16	0.04	0.10	0.19	0.28	0.36	0.51	0.66	0.81	0.95	1.10	1.24	1.38	1.51	1.78	2.05	2.31	2.57	2.82	3.01	2.39	1.95	1.64
17	0.05	0.11	0.20	0.29	0.38	0.55	0.71	0.87	1.02	1.17	1.32	1.47	1.61	1.89	2.18	2.46	2.74	3.01	3.29	2.61	2.14	1.79
18	0.05	0.12	0.22	0.31	0.40	0.58	0.75	0.92	1.08	1.24	1.40	1.56	1.72	2.02	2.32	2.62	2.91	3.20	3.59	2.85	2.33	1.95
19	0.05	0.12	0.23	0.33	0.43	0.62	0.80	0.98	1.15	1.32	1.49	1.65	1.82	2.14	2.46	2.78	3.09	3.40	3.89	3.09	2.53	2.12
20	0.06	0.13	0.24	0.35	0.45	0.65	0.84	1.03	1.21	1.39	1.57	1.75	1.92	2.26	2.60	2.93	3.26	3.59	4.20	3.33	2.73	2.29
21	0.06	0.14	0.26	0.37	0.48	0.69	0.89	1.09	1.28	1.47	1.66	1.85	2.03	2.39	2.74	3.09	3.44	3.78	4.46	3.59	2.94	2.46
22	0.06	0.14	0.27	0.39	0.50	0.72	0.93	1.14	1.35	1.55	1.74	1.94	2.13	2.51	2.89	3.26	3.62	3.98	4.69	3.85	3.15	2.64
23	0.06	0.15	0.28	0.41	0.53	0.76	0.98	1.20	1.41	1.62	1.83	2.04	2.24	2.64	3.03	3.42	3.80	4.17	4.92	4.11	3.37	2.82
24	0.07	0.16	0.29	0.42	0.55	0.79	1.03	1.26	1.48	1.70	1.92	2.13	2.34	2.76	3.17	3.57	3.97	4.37	5.15	4.38	3.59	3.01
25	0.07	0.17	0.31	0.44	0.57	0.82	1.07	1.31	1.55	1.77	2.00	2.23	2.45	2.88	3.31	3.73	4.15	4.57	5.38	4.66	3.81	3.20
26	0.07	0.17	0.32	0.46	0.60	0.86	1.12	1.37	1.61	1.85	2.09	2.32	2.55	3.01	3.46	3.90	4.33	4.76	5.61	4.94	4.05	3.39
28	0.08	0.19	0.35	0.50	0.65	0.93	1.21	1.48	1.75	2.01	2.26	2.52	2.77	3.26	3.74	4.22	4.69	5.16	6.08	5.52	4.52	3.79
30	0.08	0.20	0.38	0.54	0.70	1.00	1.31	1.60	1.88	2.16	2.44	2.71	2.98	3.51	4.03	4.55	5.06	5.56	6.55	6.13	5.01	4.20
32	0.09	0.22	0.40	0.58	0.75	1.08	1.40	1.71	2.02	2.32	2.61	2.91	3.20	3.77	4.33	4.88	5.42	5.96	7.03	6.75	5.52	4.63
35	0.10	0.24	0.44	0.64	0.83	1.19	1.54	1.88	2.22	2.55	2.88	3.20	3.52	4.14	4.76	5.37	5.97	6.57	7.74	7.72	6.32	5.29
40	0.12	0.27	0.51	0.74	0.96	1.37	1.78	2.18	2.57	2.95	3.33	3.70	4.07	4.79	5.50	6.20	6.90	7.59	8.94	9.43	7.72	6.47
45	0.14	0.31	0.58	0.83	1.08	1.55	2.02	2.47	2.92	3.35	3.78	4.20	4.62	5.44	6.25	7.05	7.84	8.62	10.2	11.3	9.21	7.72
	TYPE A							TYPE B							TYPE C							

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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SELECTION



Basic Horsepower Ratings

40 1/2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.04	0.10	0.19	0.27	0.35	0.50	0.65	0.79	0.93	1.07	1.21	1.35	1.48	1.74	2.00	2.26	2.51	2.75	3.25	3.73	4.12	3.45
10	0.05	0.11	0.21	0.30	0.38	0.56	0.73	0.89	1.04	1.20	1.35	1.50	1.65	1.95	2.24	2.53	2.81	3.09	3.64	4.18	4.71	4.04
11	0.05	0.12	0.23	0.33	0.43	0.62	0.80	0.98	1.16	1.33	1.50	1.67	1.83	2.16	2.48	2.80	3.11	3.42	4.03	4.63	5.22	4.66
12	0.06	0.14	0.25	0.36	0.47	0.68	0.88	1.08	1.27	1.46	1.65	1.83	2.01	2.37	2.73	3.08	3.42	3.76	4.43	5.09	5.74	5.31
13	0.06	0.15	0.28	0.40	0.52	0.74	0.96	1.17	1.39	1.60	1.80	2.00	2.20	2.59	2.97	3.35	3.73	4.10	4.83	5.55	6.26	5.99
14	0.07	0.16	0.30	0.43	0.56	0.80	1.04	1.27	1.50	1.73	1.95	2.16	2.38	2.80	3.22	3.63	4.04	4.44	5.23	6.01	6.78	6.70
15	0.07	0.17	0.32	0.46	0.60	0.86	1.12	1.37	1.62	1.86	2.10	2.33	2.56	3.02	3.47	3.91	4.35	4.78	5.64	6.47	7.30	7.43
16	0.08	0.19	0.35	0.50	0.65	0.93	1.20	1.47	1.74	2.00	2.25	2.50	2.75	3.24	3.72	4.19	4.66	5.13	6.04	6.94	7.83	8.18
17	0.09	0.20	0.37	0.53	0.69	0.99	1.29	1.57	1.85	2.13	2.40	2.67	2.93	3.45	3.97	4.48	4.98	5.48	6.45	7.41	8.36	8.96
18	0.09	0.21	0.39	0.56	0.73	1.05	1.37	1.66	1.95	2.25	2.55	2.84	3.12	3.67	4.22	4.76	5.30	5.82	6.86	7.88	8.89	9.76
19	0.10	0.22	0.42	0.60	0.78	1.12	1.45	1.77	2.09	2.40	2.71	3.01	3.31	3.90	4.48	5.05	5.62	6.17	7.27	8.4	9.4	10.5
20	0.11	0.24	0.44	0.63	0.82	1.17	1.53	1.87	2.21	2.54	2.86	3.18	3.50	4.12	4.73	5.34	5.94	6.53	7.69	8.8	10.0	11.1
21	0.11	0.25	0.46	0.67	0.87	1.25	1.62	1.98	2.33	2.68	3.02	3.36	3.69	4.34	4.99	5.63	6.26	6.88	8.11	9.3	10.5	11.7
22	0.12	0.26	0.49	0.70	0.91	1.31	1.70	2.08	2.45	2.81	3.17	3.53	3.88	4.57	5.25	5.92	6.58	7.23	8.52	9.8	11.0	12.3
23	0.13	0.27	0.51	0.74	0.96	1.37	1.78	2.18	2.57	2.95	3.33	3.70	4.07	4.79	5.51	6.21	6.90	7.59	8.94	10.3	11.6	12.9
24	0.13	0.29	0.54	0.77	1.00	1.43	1.87	2.28	2.69	3.09	3.48	3.87	4.26	5.01	5.8	6.5	7.2	8.0	9.4	10.8	12.1	13.5
25	0.14	0.30	0.56	0.80	1.05	1.50	1.95	2.38	2.81	3.22	3.64	4.05	4.45	5.24	6.0	6.8	7.6	8.3	9.8	11.2	12.7	14.1
26	0.15	0.31	0.58	0.84	1.09	1.57	2.04	2.49	2.93	3.37	3.80	4.22	4.64	5.46	6.3	7.1	7.9	8.7	10.2	11.7	13.2	14.7
28	0.16	0.34	0.63	0.91	1.18	1.69	2.20	2.69	3.18	3.64	4.11	4.57	5.03	5.92	6.8	7.7	8.5	9.4	11.1	12.7	14.3	15.9
30	0.16	0.37	0.68	0.98	1.27	1.83	2.38	2.90	3.42	3.93	4.43	4.93	5.42	6.38	7.3	8.3	9.2	10.1	11.9	13.7	15.4	17.2
32	0.17	0.39	0.73	1.05	1.36	1.96	2.55	3.11	3.67	4.21	4.75	5.28	5.81	6.84	7.9	8.9	9.9	10.8	12.8	14.7	16.5	18.4
35	0.19	0.43	0.81	1.16	1.50	2.16	2.81	3.43	4.04	4.64	5.24	5.82	6.40	7.53	8.7	9.8	10.9	11.9	14.1	16.2	18.2	20.3
40	0.22	0.50	0.93	1.34	1.74	2.49	3.24	3.95	4.67	5.36	6.05	6.72	7.39	8.70	10.0	11.3	12.5	13.8	16.3	18.7	21.1	23.4
45	0.25	0.57	1.06	1.52	1.97	2.83	3.68	4.49	5.30	6.09	6.87	7.64	8.40	9.90	11.4	12.8	14.2	15.7	18.5	21.2	23.9	26.6
	TYPE A						TYPE B						TYPE C									

50 5/8" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200	1400	1600	1800
9	0.09	0.19	0.36	0.52	0.67	0.97	1.26	1.53	1.81	2.08	2.35	2.61	2.87	3.38	3.89	4.39	4.88	5.36	6.32	6.02	4.92	4.13
10	0.10	0.22	0.41	0.58	0.76	1.09	1.41	1.72	2.03	2.33	2.63	2.93	3.22	3.79	4.36	4.91	5.46	6.01	7.08	7.05	5.77	4.83
11	0.11	0.24	0.45	0.65	0.84	1.20	1.56	1.91	2.25	2.59	2.92	3.25	3.57	4.20	4.83	5.45	6.06	6.66	7.85	8.13	6.65	5.58
12	0.12	0.26	0.49	0.71	0.92	1.32	1.72	2.10	2.47	2.84	3.21	3.57	3.92	4.62	5.31	5.98	6.65	7.31	8.62	9.26	7.58	6.35
13	0.13	0.29	0.54	0.77	1.00	1.44	1.87	2.29	2.70	3.10	3.50	3.89	4.27	5.03	5.78	6.52	7.25	8.0	9.4	10.4	8.6	7.2
14	0.14	0.31	0.58	0.84	1.09	1.56	2.03	2.48	2.92	3.36	3.79	4.21	4.63	5.45	6.27	7.07	7.86	8.6	10.2	11.7	9.6	8.0
15	0.15	0.34	0.63	0.90	1.17	1.68	2.19	2.67	3.15	3.62	4.08	4.54	4.99	5.87	6.75	7.61	8.47	9.3	11.0	12.6	10.6	8.9
16	0.16	0.36	0.67	0.97	1.26	1.80	2.34	2.86	3.38	3.88	4.37	4.86	5.35	6.30	7.24	8.16	9.07	10.0	11.8	13.5	11.7	9.8
17	0.17	0.39	0.72	1.03	1.34	1.92	2.50	3.06	3.61	4.14	4.67	5.19	5.71	6.72	7.73	8.71	9.69	10.7	12.6	14.4	12.8	10.7
18	0.18	0.41	0.76	1.10	1.43	2.05	2.66	3.25	3.83	4.40	4.97	5.52	6.07	7.15	8.22	9.3	10.3	11.3	13.4	15.3	13.9	11.7
19	0.19	0.43	0.81	1.16	1.51	2.15	2.82	3.45	4.07	4.67	5.27	5.86	6.44	7.58	8.72	9.8	10.9	12.0	14.2	16.3	15.1	12.7
20	0.20	0.46	0.86	1.23	1.60	2.29	2.98	3.64	4.30	4.94	5.57	6.19	6.80	8.01	9.21	10.4	11.5	12.7	15.0	17.2	16.3	13.7
21	0.21	0.48	0.90	1.30	1.69	2.42	3.14	3.84	4.53	5.20	5.87	6.52	7.17	8.44	9.71	11.0	12.2	13.4	15.8	18.1	17.6	14.7
22	0.22	0.51	0.95	1.36	1.77	2.54	3.31	4.03	4.76	5.47	6.17	6.86	7.54	8.9	10.2	11.5	12.8	14.1	16.6	19.1	18.8	15.8
23	0.23	0.53	1.00	1.43	1.86	2.67	3.47	4.24	5.00	5.74	6.47	7.19	7.91	9.3	10.7	12.0	13.4	14.8	17.4	20.0	20.1	16.9
24	0.25	0.56	1.04	1.50	1.95	2.79	3.63	4.43	5.23	6.01	6.78	7.54	8.29	9.7	11.2	12.7	14.1	15.5	18.2	20.9	21.4	18.0
25	0.26	0.58	1.09	1.56	2.03	2.92	3.80	4.64	5.47	6.28	7.08	7.87	8.66	10.2	11.7	13.2	14.7	16.2	19.0	21.9	22.8	19.1
26	0.27	0.61	1.14	1.63	2.12	3.04	3.96	4.83	5.70	6.55	7.39	8.21	9.03	10.6	12.2	13.8	15.3	16.9	19.9	22.8	24.2	20.3
28	0.29	0.66	1.23	1.77	2.30	3.30	4.29	5.24	6.18	7.10	8.01	8.90	9.79	11.5	13.2	14.9	16.6	18.3	21.5	24.7	27.0	22.6
30	0.31	0.71	1.33	1.90	2.48	3.55	4.56	5.64	6.66	7.65	8.6	9.6	10.5	12.4	14.3	16.1	17.9	19.7	23.2	26.6	30.0	25.1
32	0.33	0.76	1.42	2.04	2.66	3.81	4.96	6.05	7.14	8.20	9.3	10.3	11.3	13.3	15.3	17.3	19.2	21.1	24.9	28.6	32.2	27.7
35	0.37	0.84	1.57	2.25	2.93	4.20	5.46	6.66	7.86	9.03	10.2	11.4	12.5	14.7	16.9	19.0	21.1	23.2	27.4	31.5	35.5	31.6
40	0.43	0.97	1.81	2.60	3.38	4.85	6.31	7.70	9.1	10.4	11.8	13.1	14.4	17.0	19.5	22.0	24.4	26.8	31.6	36.3	41.0	38.7
45	0.48	1.10	2.06	2.95	3.84	5.50	7.16	8.73	10.3	11.9	13.4	14.9	16.3	19.2	22.1	24.9	27.7	30.5	35.9	41.3	46.5	46.1
	TYPE A						TYPE B						TYPE C									

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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SELECTION



DYNA-SYNCH

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Basic Horsepower Ratings

60 3/4" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
9	0.15	0.33	0.62	0.89	1.16	1.42	1.67	1.91	2.16	2.64	3.12	3.58	4.04	4.94	5.82	6.68	7.54	8.38	9.21	8.77	6.96	5.70
10	0.16	0.37	0.70	1.00	1.30	1.59	1.87	2.15	2.43	2.96	3.49	4.01	4.53	5.53	6.52	7.49	8.44	9.39	10.3	10.3	8.15	6.67
11	0.18	0.41	0.77	1.11	1.44	1.76	2.07	2.38	2.69	3.28	3.87	4.44	5.02	6.13	7.23	8.30	9.36	10.4	11.4	11.9	9.4	7.70
12	0.20	0.45	0.85	1.22	1.58	1.93	2.28	2.62	2.95	3.60	4.25	4.88	5.51	6.74	7.94	9.12	10.3	11.4	12.6	13.5	10.7	8.77
13	0.22	0.50	0.92	1.33	1.73	2.11	2.49	2.86	3.22	3.93	4.64	5.33	6.01	7.34	8.65	9.94	11.2	12.5	13.7	15.2	12.1	9.89
14	0.24	0.54	1.00	1.44	1.87	2.28	2.69	3.09	3.49	4.26	5.02	5.77	6.51	7.96	9.37	10.8	12.1	13.5	14.8	17.0	13.5	11.1
15	0.25	0.58	1.08	1.55	2.01	2.46	2.90	3.33	3.76	4.59	5.41	6.21	7.01	8.57	10.1	11.6	13.1	14.5	16.0	18.8	15.0	12.3
16	0.27	0.62	1.16	1.66	2.16	2.64	3.11	3.57	4.03	4.92	5.80	6.66	7.52	9.19	10.8	12.4	14.0	15.6	17.1	20.2	16.5	13.5
17	0.29	0.66	1.24	1.78	2.31	2.82	3.32	3.81	4.30	5.25	6.20	7.12	8.03	9.81	11.6	13.3	15.0	16.7	18.3	21.6	18.1	14.8
18	0.31	0.70	1.31	1.88	2.45	2.99	3.53	4.05	4.58	5.59	6.59	7.57	8.54	10.4	12.3	14.1	15.9	17.7	19.5	22.9	19.7	16.1
19	0.33	0.75	1.39	2.00	2.60	3.17	3.74	4.30	4.85	5.92	6.99	8.02	9.05	11.1	13.0	15.0	16.9	18.8	20.6	24.3	21.4	17.5
20	0.35	0.79	1.47	2.11	2.75	3.36	3.96	4.55	5.13	6.26	7.38	8.48	9.57	11.7	13.8	15.8	17.9	19.8	21.8	25.7	23.1	18.9
21	0.36	0.83	1.55	2.23	2.90	3.54	4.17	4.79	5.40	6.59	7.78	8.94	10.1	12.3	14.5	16.7	18.8	20.9	23.0	27.1	24.8	20.3
22	0.38	0.87	1.63	2.34	3.05	3.72	4.39	5.04	5.68	6.94	8.19	9.40	10.6	13.0	15.3	17.5	19.8	22.0	24.2	28.5	26.6	21.8
23	0.40	0.92	1.71	2.45	3.19	3.90	4.60	5.28	5.96	7.28	8.59	9.85	11.1	13.6	16.0	18.4	20.8	23.1	25.4	29.9	28.4	23.3
24	0.42	0.96	1.79	2.57	3.35	4.09	4.82	5.53	6.24	7.62	8.99	10.3	11.6	14.2	16.8	19.3	21.7	24.2	26.6	31.3	30.3	24.8
25	0.44	1.00	1.87	2.68	3.50	4.27	5.04	5.78	6.52	7.96	9.40	10.8	12.2	14.9	17.5	20.1	22.7	25.3	27.8	32.7	32.2	26.4
26	0.46	1.05	1.95	2.80	3.65	4.45	5.25	6.03	6.81	8.31	9.80	11.3	12.7	15.5	18.3	21.0	23.7	26.4	29.0	34.1	34.2	28.0
28	0.50	1.13	2.12	3.04	3.95	4.82	5.69	6.53	7.37	8.99	10.6	12.2	13.8	16.8	19.8	22.8	25.7	28.5	31.4	37.0	38.2	31.3
30	0.54	1.22	2.28	3.27	4.26	5.20	6.13	7.04	7.94	9.67	11.4	13.1	14.8	18.1	21.4	24.5	27.7	30.8	33.8	39.8	42.4	34.7
32	0.57	1.31	2.45	3.51	4.56	5.57	6.57	7.55	8.52	10.4	12.3	14.1	15.9	19.4	22.9	26.3	29.7	33.0	36.3	42.7	46.7	38.2
35	0.63	1.44	2.69	3.86	5.03	6.14	7.24	8.31	9.38	11.4	13.5	15.5	17.5	21.4	25.2	29.0	32.7	36.3	39.9	47.1	53.4	43.7
40	0.73	1.67	3.11	4.46	5.81	7.09	8.37	9.59	10.8	13.2	15.6	17.9	20.2	24.7	29.1	33.5	37.7	42.0	46.1	54.4	62.5	53.4
45	0.83	1.89	3.53	5.07	6.60	8.05	9.50	10.9	12.3	15.0	17.7	20.4	23.0	28.1	33.1	38.0	42.9	47.7	52.4	61.7	70.9	63.7
TYPE A				TYPE B								TYPE C										

80 1" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	500	600	700	800	900	1000	1200	1400	1600
9	0.34	0.78	1.45	2.08	2.71	3.31	3.90	4.48	5.05	6.17	7.28	8.36	9.43	11.5	13.6	15.6	17.6	17.0	14.5	11.0	8.76	7.17
10	0.38	0.87	1.63	2.33	3.03	3.70	4.37	5.02	5.66	6.91	8.16	9.38	10.6	12.9	15.2	17.5	19.7	19.9	17.0	12.9	10.3	8.40
11	0.42	0.97	1.80	2.58	3.36	4.10	4.84	5.56	6.28	7.66	9.04	10.4	11.7	14.3	16.9	19.4	21.9	23.0	19.6	14.9	11.8	9.69
12	0.47	1.06	1.98	2.84	3.69	4.51	5.32	6.11	6.89	8.41	9.93	11.4	12.9	15.7	18.5	21.3	24.0	26.2	22.3	17.0	13.5	11.0
13	0.51	1.16	2.16	3.10	4.03	4.91	5.80	6.66	7.52	9.16	10.8	12.4	14.0	17.1	20.2	23.2	26.2	29.1	25.2	19.2	15.2	12.5
14	0.55	1.25	2.34	3.35	4.36	5.33	6.29	7.22	8.14	9.92	11.7	13.4	15.2	18.6	21.9	25.1	28.4	31.5	28.2	21.4	17.0	13.9
15	0.59	1.35	2.52	3.61	4.70	5.74	6.77	7.77	8.77	10.7	12.6	14.5	16.4	20.0	23.6	27.1	30.6	34.0	31.2	23.8	18.9	15.4
16	0.63	1.45	2.70	3.87	5.04	6.15	7.26	8.34	9.41	11.5	13.5	15.6	17.6	21.5	25.3	29.0	32.8	36.4	34.4	26.2	20.8	17.0
17	0.68	1.55	2.88	4.13	5.38	6.57	7.75	8.88	10.0	12.3	14.5	16.6	18.7	22.9	27.0	31.0	35.0	38.9	37.7	28.7	22.7	18.6
18	0.72	1.64	3.07	4.40	5.72	6.99	8.25	9.48	10.7	13.1	15.4	17.6	19.9	24.4	28.7	33.0	37.2	41.4	41.1	31.2	24.8	20.3
19	0.76	1.74	3.25	4.66	6.07	7.41	8.74	10.0	11.3	13.8	16.3	18.7	21.1	25.8	30.4	35.0	39.4	43.8	44.5	33.9	26.9	22.0
20	0.81	1.84	3.44	4.93	6.41	7.83	9.24	10.6	12.0	14.6	17.2	19.7	22.3	27.3	32.2	37.0	41.7	46.3	48.1	36.6	29.0	23.8
21	0.85	1.94	3.62	5.19	6.76	8.25	9.74	11.2	12.6	15.4	18.2	20.9	23.5	28.8	33.9	39.0	43.9	48.9	51.7	39.4	31.2	25.6
22	0.90	2.04	3.81	5.46	7.11	8.66	10.2	11.8	13.3	16.2	19.1	22.0	24.8	30.3	35.7	41.0	46.2	51.4	55.5	42.2	33.5	27.4
23	0.94	2.14	4.00	5.73	7.46	9.08	10.7	12.3	13.9	17.0	20.1	23.1	26.0	31.8	37.4	43.0	48.5	53.9	59.3	45.1	35.8	29.3
24	0.98	2.24	4.19	6.00	7.81	9.56	11.3	13.0	14.6	17.8	21.0	24.1	27.2	33.2	39.2	45.0	50.8	56.4	62.0	48.1	38.2	31.2
25	1.03	2.34	4.37	6.27	8.16	9.98	11.8	13.5	15.2	18.6	21.9	25.2	28.4	34.7	40.9	47.0	53.0	59.0	64.8	51.1	40.6	33.2
26	1.07	2.45	4.56	6.54	8.52	10.4	12.3	14.1	15.9	19.4	22.9	26.3	29.7	36.2	42.7	49.1	55.3	61.5	67.6	54.2	43.0	35.2
28	1.16	2.65	4.94	7.09	9.23	11.3	13.3	15.3	17.2	21.0	24.8	28.5	32.1	39.3	46.3	53.2	59.9	66.7	73.7	60.6	48.1	39.4
30	1.25	2.85	5.33	7.64	9.94	12.1	14.3	16.4	18.5	22.6	26.7	30.7	34.6	42.3	49.9	57.3	64.6	71.8	78.9	67.2	53.3	43.6
32	1.34	3.06	5.71	8.21	10.7	13.0	15.3	17.6	19.9	24.3	28.6	32.9	37.1	45.4	53.5	61.4	69.2	77.0	84.6	74.0	58.7	48.1
35	1.48	3.37	6.29	9.00	11.7	14.3	16.9	19.4	21.9	26.8	31.6	36.3	40.9	50.0	58.9	67.6	76.3	84.8	93.3	84.7	67.2	55.0
40	1.71	3.89	7.27	10.4	13.6	16.5	19.5	22.4	25.3	30.9	36.4	41.8	47.2	57.7	68.0	78.1	88.1	99.0	108	103	82.1	67.2
45	1.94	4.42	8.25	11.8	15.4	18.8	22.2	25.5	28.7	35.1	41.4	47.5	53.6	65.6	77.2	88.7	100	111	122	123	98.0	80.2
TYPE A				TYPE B								TYPE C										

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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Basic Horsepower Ratings

100 1-1/4" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
9	0.65	1.49	2.78	3.985	5.19	6.33	7.47	8.575	9.68	11.8	13.9	16.0	18.1	20.1	22.1	26.0	29.6	24.2	20.3	17.4	15.0	13.2
10	0.73	1.67	3.11	4.46	5.81	7.09	8.37	9.585	10.8	13.2	15.6	17.9	20.2	22.5	24.7	29.2	33.5	28.4	23.8	20.3	17.6	15.5
11	0.81	1.85	3.45	4.945	6.44	7.86	9.28	10.6	12.0	14.6	17.3	19.8	22.4	24.9	27.4	32.3	37.1	32.8	27.5	23.4	20.3	17.8
12	0.89	2.03	3.79	5.435	7.08	8.64	10.2	11.7	13.2	16.1	19.0	21.8	24.6	27.4	30.1	35.5	40.8	37.3	31.3	26.7	23.2	20.3
13	0.97	2.22	4.13	5.925	7.72	9.41	11.1	12.8	14.4	17.5	20.7	23.8	26.9	29.8	32.8	38.7	44.5	42.1	35.3	30.1	26.1	22.9
14	1.05	2.40	4.48	6.42	8.36	10.18	12.0	13.8	15.6	19.0	22.5	25.8	29.1	32.3	35.6	41.9	48.2	47.0	39.4	33.7	29.2	25.6
15	1.13	2.59	4.83	6.92	9.01	11.0	13.0	14.9	16.8	20.5	24.2	27.8	31.4	34.8	38.3	45.2	51.9	52.2	43.7	37.3	32.4	28.4
16	1.22	2.77	5.17	7.415	9.66	11.8	13.9	15.9	18.0	22.0	26.0	29.8	33.6	37.3	41.1	48.4	55.6	57.5	48.2	41.1	35.7	31.3
17	1.30	2.96	5.52	7.91	10.3	12.6	14.8	17.0	19.2	23.5	27.7	31.8	35.9	39.9	43.9	51.7	59.4	63.0	52.8	45.0	39.0	34.3
18	1.38	3.15	5.88	8.44	11.0	13.4	15.8	18.1	20.5	25.0	29.5	33.8	38.2	42.5	46.7	55.0	63.2	68.6	57.5	49.1	42.5	37.3
19	1.46	3.34	6.23	8.915	11.6	14.2	16.7	19.2	21.7	26.5	31.2	35.8	40.5	45.0	49.5	58.3	67.0	74.4	62.3	53.2	46.1	40.5
20	1.55	3.53	6.58	9.44	12.3	15.0	17.7	20.3	22.9	28.0	33.0	37.9	42.8	47.5	52.3	61.6	70.8	79.8	67.3	57.5	49.8	43.7
21	1.63	3.72	6.94	9.97	13.0	15.9	18.7	21.5	24.2	29.5	34.8	39.9	45.1	50.1	55.1	65.0	74.6	84.2	72.4	61.8	53.6	47.0
22	1.71	3.91	7.30	10.45	13.6	16.6	19.6	22.5	25.4	31.0	36.6	42.0	47.4	52.7	58.0	68.3	78.5	88.5	77.7	66.3	57.5	50.4
23	1.80	4.10	7.66	11.0	14.3	17.5	20.6	23.7	26.7	32.6	38.4	44.1	49.8	55.3	60.8	71.7	82.3	92.8	83.0	70.9	61.4	53.9
24	1.88	4.30	8.02	11.5	15.0	18.3	21.5	24.7	27.9	34.0	40.2	46.2	52.1	57.9	63.7	75.0	86.2	97.2	88.5	75.6	65.5	57.5
25	1.97	4.49	8.38	12.0	15.6	19.0	22.5	25.9	29.2	35.6	42.0	48.2	54.4	60.5	66.6	78.4	90.1	102	94.1	80.3	69.6	61.1
26	2.05	4.68	8.74	12.5	16.3	19.9	23.5	27.0	30.4	37.1	43.8	50.3	56.8	63.1	69.4	81.8	94.0	106	99.8	85.2	73.8	64.8
28	2.22	5.07	9.47	13.6	17.7	21.6	25.5	29.3	33.0	40.3	47.5	53.8	60.5	68.3	75.2	88.6	102	115	112	95.2	82.5	72.4
30	2.40	5.47	10.2	14.6	19.0	23.2	27.4	31.5	35.5	43.3	51.2	58.8	66.3	73.7	81.0	95.5	110	124	124	106	91.5	80.3
32	2.57	5.86	10.9	15.6	20.4	24.9	29.4	33.8	38.1	46.5	54.9	63.0	71.1	79.0	86.9	102	118	133	136	116	101	88.5
35	2.83	6.46	12.0	17.3	22.5	27.5	32.4	37.2	42.0	51.2	60.4	69.4	78.3	87.0	95.7	113	130	146	156	133	115	101
40	3.27	7.46	13.9	20.0	26.0	31.7	37.4	43.0	48.5	59.2	69.8	80.1	90.4	101	111	130	150	169	188	163	141	124
45	3.71	8.47	15.8	22.6	29.5	36.0	42.5	48.8	55.0	67.2	79.3	91.2	103	114	126	148	170	192	213	194	168	148
	TYPE A				TYPE B								TYPE C									

120 1-1/2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
9	1.10	2.52	4.69	6.73	8.76	10.7	12.6	14.4	16.3	19.9	23.5	27.0	30.5	33.9	37.3	43.2	34.3	28.1	23.5	20.1	17.4	15.3
10	1.24	2.82	5.26	7.54	9.81	12.0	14.1	16.2	18.3	22.3	26.4	30.3	34.2	38.0	41.8	49.2	40.1	32.9	27.5	23.5	20.4	17.9
11	1.37	3.12	5.83	8.36	10.9	13.3	15.7	18.0	20.3	24.8	29.2	33.6	37.9	42.1	46.3	54.6	46.3	37.9	31.8	27.1	23.5	20.6
12	1.50	3.43	6.40	9.15	11.9	14.6	17.2	19.7	22.3	27.2	32.1	36.8	41.6	46.3	50.9	59.9	52.8	43.2	36.2	30.9	26.8	23.5
13	1.64	3.74	6.98	10.0	13.0	15.9	18.8	21.5	24.3	29.6	35.0	40.2	45.4	50.5	55.5	65.3	59.5	48.7	40.8	34.9	30.2	26.5
14	1.78	4.05	7.56	10.8	14.1	17.2	20.3	23.3	26.3	32.1	37.9	43.5	49.1	54.6	60.1	70.8	66.5	54.4	45.6	39.0	33.8	29.6
15	1.91	4.37	8.15	11.7	15.2	18.5	21.9	25.1	28.4	34.7	40.9	47.0	53.0	58.8	64.7	76.3	73.8	60.4	50.6	43.2	37.4	32.9
16	2.05	4.68	8.74	12.5	16.3	19.9	23.5	27.0	30.4	37.1	43.8	50.3	56.8	63.1	69.4	81.8	81.3	66.5	55.7	47.6	41.2	36.2
17	2.19	5.00	9.33	13.4	17.4	21.3	25.1	28.8	32.5	39.7	46.8	53.7	60.6	67.3	74.1	87.3	89.0	72.8	61.0	52.1	45.2	39.6
18	2.33	5.32	9.92	14.2	18.5	22.6	26.7	30.6	34.6	42.2	49.8	57.2	64.5	71.7	78.8	92.9	97.0	79.4	66.5	56.8	49.2	43.2
19	2.47	5.64	10.5	15.1	19.6	24.0	28.3	32.4	36.6	44.7	52.8	60.6	68.4	76.0	83.6	98.5	105	86.1	72.1	61.6	53.4	46.8
20	2.61	5.96	11.1	15.9	20.7	25.3	29.9	34.3	38.7	47.3	55.8	64.0	72.2	80.3	88.3	104	114	92.9	77.9	66.5	57.6	50.6
21	2.75	6.28	11.7	16.8	21.9	26.7	31.5	36.2	40.8	49.8	58.6	67.5	76.2	84.6	93.1	110	122	100	83.8	71.6	62.0	54.4
22	2.90	6.60	12.3	17.6	23.0	28.0	33.1	38.0	42.9	52.3	61.8	70.9	80.1	89.0	97.9	115	131	107	89.9	76.7	66.5	58.4
23	3.04	6.93	12.9	18.5	24.1	29.5	34.8	39.9	45.0	55.0	64.9	74.4	84.0	93.5	103	121	139	115	96.1	82.0	71.1	62.4
24	3.18	7.25	13.5	19.4	25.3	30.9	36.4	41.7	47.1	57.5	67.9	77.9	88.0	98.0	108	127	146	122	102	87.4	75.8	66.5
25	3.32	7.58	14.1	20.3	26.4	32.2	38.0	43.8	49.3	60.2	71.0	81.4	91.9	102	112	132	152	130	109	92.9	80.6	70.7
26	3.47	7.91	14.8	21.1	27.5	33.6	39.7	45.6	51.4	62.7	74.0	84.9	95.9	106	117	138	159	138	115	98.6	85.4	75.0
28	3.76	8.57	16.0	22.9	29.8	36.4	43.0	49.3	55.7	67.9	80.2	92.1	104	115.5	127	150	172	154	129	110	95.5	83.8
30	4.05	9.23	17.2	24.6	32.1	39.2	46.3	53.2	60.0	73.2	86.4	99.2	112	124.5	137	161	185	171	143	122	106	92.9
32	4.34	9.90	18.5	26.5	34.5	42.0	49.6	57.0	64.3	78.4	92.6	106.3	120	133.5	147	173	199	188	158	135	117	102
35	4.78	10.9	20.3	29.1	38.0	46.3	54.7	62.8	70.9	86.4	102	117	132	147	162	190	219	215	180	154	133	117
40	5.52	12.6	23.5	33.7	43.9	53.6	63.2	72.5	81.8	98.9	118	135.5	153	170	187	220	253	263	220	188	163	143
45	6.27	14.3	26.7	38.3	49.8	60.8	71.7	82.3	92.9	113	134	153.5	173	192.5	212	250	287	314	263	224	195	171
	TYPE A				TYPE B								TYPE C									

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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SELECTION



Basic Horsepower Ratings

140 1-3/4" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	225	250	275	300	325	350	400	450	500	550	600	700	800
9	1.71	3.89	7.26	10.4	13.6	16.5	19.5	22.4	25.3	28.1	30.9	33.7	36.4	39.1	41.8	47.2	52.5	57.7	55.7	48.9	38.8	31.7
10	1.91	4.36	8.14	11.7	15.2	18.5	21.9	25.1	28.3	31.4	34.6	37.7	40.8	43.8	46.9	52.9	58.8	64.6	65.2	57.2	45.4	37.2
11	2.12	4.83	9.02	12.9	16.8	20.5	24.2	27.8	31.4	34.9	38.4	41.8	45.2	48.6	52.0	58.6	65.2	71.6	75.2	66.0	52.4	42.9
12	2.33	5.31	9.91	14.2	18.5	22.5	26.6	30.5	34.5	38.3	42.2	46.0	49.7	53.4	57.1	64.4	71.6	78.7	85.7	75.2	59.7	48.9
13	2.54	5.79	10.8	15.5	20.2	24.6	29.0	33.3	37.6	41.8	46.0	50.1	54.2	58.2	62.2	70.2	78.0	85.8	93.5	84.8	67.3	55.1
14	2.75	6.27	11.7	16.8	21.8	26.6	31.5	36.2	40.8	45.3	49.8	54.3	58.7	63.1	67.4	76.0	84.5	93.0	101	94.8	75.2	61.6
15	2.96	6.76	12.6	18.0	23.5	28.7	33.9	38.9	43.9	48.8	53.7	58.5	63.2	67.9	72.7	81.9	91.1	100	109	105	83.4	68.3
16	3.18	7.24	13.5	19.4	25.2	30.8	36.3	41.7	47.1	52.3	57.5	62.7	67.8	72.9	77.9	87.8	97.7	107	117	116	91.9	75.2
17	3.39	7.73	14.4	20.6	26.8	32.8	38.8	44.5	50.3	55.8	61.4	66.9	72.4	77.8	83.2	93.8	104	115	125	127	101	82.4
18	3.61	8.23	15.4	22.0	28.9	35.0	41.3	47.4	53.5	59.4	65.3	71.2	77.0	82.8	88.5	99.8	111	122	133	138	110	89.8
19	3.82	8.72	16.3	23.3	30.4	37.0	43.7	50.2	56.7	63.0	69.3	75.4	81.6	87.7	93.8	106	118	129	141	150	119	97.4
20	4.04	9.22	17.2	24.6	32.1	39.2	46.2	53.1	59.9	66.6	73.2	79.8	86.3	92.7	99.1	112	124	137	149	161	128	105
21	4.26	9.72	18.1	26.0	33.8	41.3	48.7	55.9	63.1	70.1	77.2	84.1	91.0	97.5	104	118	131	144	157	170	138	113
22	4.48	10.2	19.1	27.3	35.6	43.4	51.3	58.8	66.4	73.8	81.2	88.4	95.6	103	110	124	138	151	165	178	148	121
23	4.70	10.7	20.0	28.6	37.3	45.5	53.8	61.8	69.7	77.4	85.2	92.6	100	107	115	130	145	159	173	187	158	130
24	4.92	11.2	20.9	30.0	39.1	47.7	56.3	64.6	72.9	81.1	89.2	97.1	105	113	121	136	151	166	181	196	169	138
25	5.14	11.7	21.9	31.3	40.8	49.8	58.8	67.5	76.2	84.7	93.2	102	110	118	126	142	158	174	189	205	180	147
26	5.37	12.2	22.8	32.7	42.6	52.0	61.4	70.4	79.5	88.3	97.2	106	115	124	132	148	165	181	198	214	190	156
28	5.81	13.3	24.7	35.5	46.2	56.3	66.5	76.3	86.2	95.6	105	114	124	134	143	161	179	197	214	232	213	174
30	6.26	14.3	26.7	38.2	49.7	60.7	71.6	82.2	92.8	102.9	113	124	134	144	154	173	193	212	231	249	236	193
32	6.71	15.3	28.6	41.0	53.3	65.1	76.8	88.2	99.5	111	122	132	143	154	165	186	206	227	247	267	260	213
35	7.40	16.9	31.5	45.1	58.7	71.7	84.6	97.3	110	122	134	146	158	169	181	205	227	250	272	295	297	243
40	8.54	19.5	36.4	52.2	67.9	82.8	97.7	112	127	141	155	168	182	196	210	238	263	289	315	340	363	297
45	9.70	22.1	41.3	59.2	77.1	94.1	111	127.5	144	160	176	192	207	222	238	268	298	328	357	387	434	355
TYPE A			TYPE B										TYPE C									

160 2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																					
	10	25	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	700
9	2.48	5.65	10.5	15.1	19.7	24.0	28.3	32.5	36.7	40.8	44.8	48.8	52.8	56.8	60.7	64.6	68.5	76.1	71.5	62.0	54.4	43.2
10	2.77	6.33	11.8	16.9	22.0	26.9	31.7	36.4	41.1	45.7	50.3	54.8	59.2	63.6	68.0	72.3	76.7	85.3	83.7	72.6	63.7	50.5
11	3.07	7.01	13.1	18.8	24.4	29.8	35.2	40.4	45.6	50.7	55.7	60.7	65.6	70.5	75.4	80.2	85.0	94.5	96.6	83.7	73.5	58.3
12	3.38	7.70	14.4	20.6	26.8	32.7	38.6	44.3	50.1	55.7	61.2	66.7	72.1	77.4	82.8	88.1	93.4	104	110	95.4	83.7	66.4
13	3.68	8.40	15.7	22.5	29.2	35.7	42.1	48.3	54.6	60.6	66.7	72.6	78.6	84.4	90.3	96.2	102	113	124	108	94.4	74.9
14	3.99	9.10	17.0	24.4	31.7	38.7	45.6	52.3	59.1	65.7	72.3	78.8	85.2	91.5	97.8	104	110	123	135	120	105	83.7
15	4.30	9.80	18.3	26.2	34.1	41.7	49.2	56.5	63.7	70.8	77.9	84.8	91.7	98.3	105	112	119	132	145	133	117	92.8
16	4.61	10.5	19.6	28.1	36.6	44.7	52.7	60.5	68.3	75.9	83.5	90.9	98.4	106	113	120	127	142	156	147	129	102
17	4.92	11.2	20.9	30.0	39.1	47.7	56.3	64.6	72.9	81.0	89.1	97.1	105	113	121	128	136	151	166	161	141	112
18	5.23	11.9	22.3	31.9	41.6	50.8	59.9	68.8	77.6	86.2	94.8	103	112	120	128	136	145	161	177	175	154	122
19	5.55	12.7	23.6	33.8	44.1	53.8	63.5	72.8	82.2	91.6	101	109	118	127	136	145	153	171	188	190	167	132
20	5.86	13.4	25.0	35.8	46.6	56.8	67.1	77.0	86.9	96.4	106	115	125	135	144	153	162	180	198	205	180	143
21	6.18	14.1	26.3	37.7	49.1	59.9	70.7	81.1	91.6	102	112	122	132	142	152	162	171	190	209	221	194	154
22	6.50	14.8	27.7	39.7	51.6	63.0	74.4	85.4	96.3	107	118	128	139	149	159	169	180	200	220	237	208	165
23	6.82	15.6	29.0	41.6	54.2	66.1	78.0	89.5	101	112	124	135	146	156	167	178	189	210	231	251	222	176
24	7.14	16.3	30.4	43.5	56.7	69.2	81.7	93.8	106	117	129	141	152	163	175	186	197	220	241	263	237	188
25	7.46	17.0	31.1	45.2	59.3	72.3	85.4	98.2	111	123	135	147	159	171	183	195	206	229	252	275	252	200
26	7.78	17.8	31.8	46.8	61.8	75.4	89.1	102	115	128	141	153	166	179	191	203	215	239	263	287	267	212
28	8.43	19.2	35.9	51.5	67.0	81.8	96.5	111	125	139	153	166	180	193	207	220	233	259	285	311	298	237
30	9.08	20.7	38.7	55.4	72.2	88.1	104	119	135	150	165	179	194	209	223	237	251	279	307	336	331	263
32	9.74	22.2	41.5	59.5	77.4	94.2	111	128	144	160	176	192	208	223	239	254	269	300	329	359	365	289
35	10.7	24.5	45.7	65.4	85.2	104	123	141	159	176	194	212	229	246	263	280	297	330	363	395	417	331
40	12.4	28.3	52.8	75.7	98.5	120	142	163	184	205	225	245	265	284	304	324	343	381	419	457	494	404
45	14.1	32.1	59.9	85.9	112	136	161	185	209	232	255	278	301	323	345	367	389	433	476	519	561	482
TYPE A			TYPE B										TYPE C									

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

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DYNA-SYNCH

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



Basic Horsepower Ratings

180 2-1/4" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																			
	10	20	30	40	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	
11	4.24	7.87	11.4	14.7	18.1	25.9	33.7	41.2	48.6	55.7	62.9	69.9	76.9	83.8	90.6	97.3	104	110	117	
12	4.66	8.62	12.4	16.1	19.8	28.4	37.0	45.2	53.4	61.3	69.1	76.8	84.5	92.1	99.6	107	114	121	129	
13	5.08	9.43	13.6	17.6	21.6	31.0	40.4	49.3	58.2	66.8	75.4	83.8	92.1	101	109	117	125	133	141	
14	5.51	10.2	14.8	19.1	23.4	33.5	43.7	53.3	63.0	72.3	81.6	90.7	99.8	109	118	126	135	143	152	
15	5.93	11.0	15.9	20.6	25.3	36.2	47.1	57.5	67.9	77.9	88.0	98.0	108	117	127	136	146	155	164	
16	6.36	11.8	17.0	22.1	27.1	38.8	50.5	61.7	72.8	83.6	94.3	105	115	125	136	146	156	166	176	
17	6.79	12.6	18.2	23.5	28.9	41.5	54.0	65.8	77.7	89.3	101	112	123	134	145	156	167	178	188	
18	7.22	13.4	19.4	25.1	30.8	44.1	57.4	70.1	82.7	94.8	107	119	131	142	154	165	177	189	200	
19	7.66	14.2	20.5	26.6	32.6	46.7	60.8	74.2	87.6	101	114	126	139	152	164	176	188	200	212	
20	8.10	15.0	21.7	28.1	34.5	49.4	64.3	78.4	92.6	106	120	134	147	160	173	186	199	212	224	
21	8.53	15.8	22.9	29.6	36.3	52.1	67.8	82.7	97.6	112	126	141	155	168	182	195	209	222	236	
22	8.97	16.7	24.0	31.1	38.2	54.8	71.3	87.2	103	118	133	148	163	178	192	206	220	234	248	
23	9.41	17.5	25.2	32.7	40.1	57.5	74.8	91.4	108	124	140	155	171	186	201	216	231	246	260	
24	9.86	18.3	26.4	34.2	42.0	60.2	78.3	95.7	113	129	146	162	179	195	210	226	242	258	273	
25	10.3	19.1	27.6	35.7	43.9	62.9	81.8	99.9	118	135	153	170	187	203	220	236	253	269	285	
26	10.7	19.9	28.7	37.2	45.7	65.6	85.4	104	123	141	159	177	195	212	229	246	264	281	297	
28	11.6	21.6	31.2	40.4	49.6	71.1	92.5	113	133	153	173	192	211	230	249	267	286	304	322	
30	12.5	23.2	33.6	43.5	53.4	76.5	99.6	122	144	165	186	206	227	247	268	288	308	327	347	
32	13.4	24.9	36.0	46.6	57.2	82.1	107	131	154	176	199	222	244	265	287	308	330	351	372	
35	14.8	27.5	39.7	51.4	63.1	90.6	118	144	170	195	220	244	268	292	316	339	363	386	410	
TYPE A			TYPE B												TYPE C					

200 2-1/2" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																			
	10	15	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	275	300	
11	5.64	8.12	10.5	15.1	19.6	24.0	28.3	32.5	36.6	40.7	44.8	54.7	64.5	74.0	83.5	92.8	102	111	120	
12	6.19	8.92	11.6	16.6	21.6	26.4	31.0	35.7	40.2	44.7	49.2	60.0	70.8	81.3	91.8	102	112	122	132	
13	6.75	9.72	12.6	18.1	23.5	28.7	33.8	38.9	43.8	48.7	53.6	65.4	77.2	88.6	100	111	122	133	144	
14	7.31	10.5	13.6	19.7	25.5	31.1	36.6	42.1	47.4	52.8	58.1	70.9	83.7	95.8	108	120	132	144	156	
15	7.88	11.3	14.7	21.2	27.4	33.5	39.5	45.4	51.1	56.9	62.6	76.3	90.1	104	117	130	143	155	168	
16	8.45	12.2	15.8	22.7	29.4	36.0	42.3	48.7	54.8	61.0	67.1	81.8	96.6	111	125	139	153	166	180	
17	9.02	13.0	16.8	24.2	31.4	38.4	45.2	52.0	58.5	65.1	71.6	87.3	103	119	134	148	163	178	193	
18	9.59	13.8	17.9	25.8	33.4	40.8	48.0	55.3	62.3	69.2	76.2	93.1	110	126	142	158	174	189	205	
19	10.2	14.6	19.0	27.3	35.4	43.3	50.9	58.6	66.0	73.4	80.8	98.4	116	134	151	168	184	200	217	
20	10.7	15.5	20.1	28.9	37.4	45.8	53.8	61.9	69.7	77.6	85.4	104	123	141	159	177	195	212	229	
21	11.3	16.3	21.1	30.5	39.5	48.2	56.8	65.3	73.5	81.8	90.0	110	130	149	168	186	205	223	242	
22	11.9	17.2	22.2	32.0	41.5	50.7	59.7	68.7	77.3	86.0	94.6	115	136	156	177	196	216	235	254	
23	12.5	18.0	23.3	33.6	43.5	53.2	62.6	72.0	81.1	90.2	99.3	121	143	164	185	205	226	246	267	
24	13.1	18.9	24.4	35.2	45.6	55.7	65.6	75.4	84.9	94.5	104	127	150	172	194	216	237	258	279	
25	13.7	19.7	25.5	36.8	47.6	58.2	68.5	78.8	88.9	98.9	109	132	156	179	203	226	248	270	292	
26	14.3	20.6	26.6	38.4	49.7	60.7	71.4	82.2	92.5	103	113	138	163	188	212	236	259	282	305	
TYPE A			TYPE B												TYPE C					

240 3" Pitch Single Strand Roller Chain

HORSEPOWER RATINGS

No. Teeth	Small Sprocket RPM																			
	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150	175	200	250	300	
11	4.86	9.08	13.1	16.9	20.7	24.4	31.6	38.6	45.5	52.3	59.0	65.6	72.1	88.1	104	119	135	164	194	
12	5.34	9.97	14.4	18.6	22.7	26.8	34.7	42.4	50.0	57.4	64.8	72.0	79.2	96.8	114	131	148	181	213	
13	5.83	10.9	15.7	20.3	24.8	29.2	37.9	46.3	54.5	62.5	70.6	78.5	86.4	106	124	143	161	197	232	
14	6.31	11.8	17.0	22.0	26.9	31.7	41.0	50.1	59.1	67.8	76.5	85.1	93.6	114	135	155	175	213	251	
15	6.80	12.7	18.3	23.7	28.9	34.1	44.2	54.0	63.6	73.0	82.4	91.7	101	123	145	167	188	230	271	
16	7.29	13.6	19.6	25.4	31.0	36.6	47.4	57.9	68.2	78.3	88.4	98.2	108	132	156	179	202	247	290	
17	7.78	14.5	20.9	27.1	33.1	39.0	50.6	61.8	72.9	83.7	94.4	105	115	141	166	191	215	263	310	
18	8.28	15.4	22.3	28.8	35.2	41.5	53.8	65.8	77.5	88.8	100	112	123	150	177	203	229	280	330	
19	8.78	16.4	23.6	30.6	37.4	44.0	57.0	69.7	82.2	94.1	106	118	130	159	187	215	243	297	350	
20	9.28	17.3	24.9	32.3	39.5	46.5	60.3	73.7	86.8	99.4	112	125	138	168	198	228	257	314	370	
21	9.78	18.2	26.3	34.1	41.6	49.0	63.5	77.7	91.5	105	119	132	145	177	209	240	270	331	390	
22	10.3	19.2	27.6	35.8	43.8	51.6	66.8	81.7	96.2	111	125	138	152	186	220	252	284	348	410	
23	10.8	20.1	29.0	37.6	45.9	54.1	70.1	85.7	101	116	131	145	160	195	230	265	298	365	430	
24	11.3	21.1	30.4	39.3	48.1	56.7	73.4	89.0	106	121	137	152	167	205	241	277	312	382	450	
25	11.8	22.0	31.7	41.1	50.3	59.2	76.7	93.8	110	126	143	159	175	214	252	290	327	399	470	
26	12.3	23.0	33.1	42.9	52.4	61.8	80.0	97.8	115	132	149	166	183	223	263	302	341	416	491	
TYPE A			TYPE B												TYPE C					

Lubrication Note

- TYPE A: Manual or Drip
- TYPE B: Bath or Disc
- TYPE C: Oil Stream

Multiple Strand Chain HP Factors:

Single Strand	1.0
Double Strand	1.9
Triple Strand	2.8

Shaded Area: Operation is in the galling range – consult factory

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SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Basic Horsepower Ratings

2040 — HP Ratings for 2040 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300
6	.10	.17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.12	.21	.35	.46	.54	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.14	.25	.64	.72	.82	.90	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.16	.30	.53	.72	.88	1.02	1.14	1.3	1.3	...	...	...	...	...	...	...	...	...	...	...
10	.18	.34	.61	.82	1.04	1.21	1.37	1.5	1.6	1.7	1.8	1.9	...	...	...	...	...	...	...	...
11	.20	.38	.69	.96	1.20	1.41	1.59	1.8	1.9	2.0	2.1	2.2	2.3	...	...	...	...	...	...	...
12	.22	.42	.77	1.07	1.34	1.58	1.80	2.0	2.2	2.3	2.5	2.6	2.7	2.9	...	...	...	...	...	...
13	.24	.46	.84	1.18	1.48	1.76	2.01	2.2	2.4	2.6	2.8	2.9	3.1	3.3	3.5	...	...	...	...	...
14	.26	.50	.92	1.29	1.62	1.93	2.21	2.5	2.7	2.9	3.1	3.3	3.4	3.7	3.9	4.1	...	...	...	...
15	.28	.54	.99	1.39	1.76	2.09	2.40	2.7	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	...	...	...
16	.30	.57	1.06	1.50	1.89	2.25	2.59	2.9	3.2	3.4	3.7	3.9	4.1	4.4	4.7	5.0	5.1	...	...	...
17	.32	.61	1.13	1.60	2.02	2.41	2.77	3.1	3.4	3.7	4.0	4.2	4.4	4.8	5.1	5.4	5.6	5.7	...	...
18	.34	.65	1.20	1.70	2.15	2.57	2.95	3.3	3.6	3.9	4.2	4.5	4.7	5.1	5.5	5.8	6.0	6.2	...	...
19	.36	.69	1.27	1.80	2.28	2.73	3.13	3.5	3.9	4.2	4.5	4.8	5.0	5.5	5.9	6.2	6.4	6.6	6.7	...
20	.38	.72	1.34	1.89	2.40	2.87	3.30	3.7	4.1	4.4	4.7	5.0	5.3	5.8	6.2	6.5	6.8	7.0	7.1	...
21	.40	.76	1.41	1.99	2.53	3.01	3.47	3.9	4.3	4.6	5.0	5.3	5.6	6.1	6.5	6.9	7.1	7.4	7.5	...
22	.42	.79	1.48	2.09	2.64	3.16	3.63	4.1	4.5	4.9	5.2	5.5	5.8	6.4	6.8	7.2	7.5	7.7	7.9	...
23	.44	.83	1.54	2.18	2.76	3.30	3.80	4.3	4.7	5.1	5.4	5.8	6.1	6.6	7.1	7.5	7.8	8.0	8.2	8.3
24	.46	.87	1.61	2.27	2.88	3.44	3.95	4.4	4.9	5.3	5.7	6.0	6.4	6.9	7.4	7.8	8.1	8.4	8.5	8.6
25	.48	.90	1.67	2.36	3.00	3.58	4.11	4.6	5.1	5.5	5.9	6.3	6.6	7.2	7.7	8.1	8.4	8.7	8.8	8.9
30	.57	1.08	1.99	2.81	3.56	4.24	4.87	5.4	6.0	6.5	6.9	7.4	7.8	8.4	8.9	9.4	9.7	10.0	10.1	10.1
TYPE I					TYPE II								TYPE III							

2050 — HP Ratings for 2050 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950
6	.18	.31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.22	.40	.65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.26	.48	.82	1.08	1.28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.31	.56	.98	1.32	1.59	1.82	1.99	...	...	...	...	...	...	...	...	...	...	...	...	...
10	.35	.64	1.14	1.55	1.89	2.19	2.42	2.62	2.80	...	...	...	...	...	...	...	...	...	...	...
11	.39	.72	1.30	1.77	2.19	2.55	2.85	3.11	3.35	3.55	...	...	...	...	...	...	...	...	...	...
12	.43	.80	1.45	1.99	2.47	2.90	3.26	3.58	3.88	4.12	4.31	...	...	...	...	...	...	...	...	...
13	.47	.88	1.59	2.20	2.74	3.23	3.65	4.03	4.38	4.66	4.90	5.11	5.30	...	...	...	...	...	...	...
14	.51	.95	1.73	2.41	3.01	3.55	4.02	4.45	4.85	5.17	5.47	5.73	5.95	6.09	...	...	...	...	...	...
15	.55	1.02	1.87	2.62	3.27	3.87	4.37	4.86	5.30	5.67	6.01	6.31	6.57	6.75	6.94	...	...	...	...	...
16	.58	1.09	2.01	2.82	3.52	4.17	4.72	5.25	5.73	6.15	6.53	6.87	7.17	7.39	7.61	7.79	...	...	...	...
17	.62	1.17	2.14	3.01	3.77	4.46	5.07	5.67	6.15	6.61	7.05	7.42	7.74	7.99	8.24	8.46	8.62	...	...	...
18	.66	1.24	2.27	3.20	4.01	4.75	5.41	6.04	6.56	7.07	7.54	7.95	8.29	8.56	8.84	9.08	9.28	...	...	...
19	.70	1.31	2.40	3.39	4.25	5.04	5.75	6.40	6.96	7.51	8.01	8.46	8.82	9.12	9.42	9.68	9.90	10.08	...	...
20	.74	1.38	2.53	3.57	4.48	5.32	6.07	6.75	7.35	7.94	8.46	8.94	9.33	9.65	9.97	10.25	10.49	10.69	...	...
21	.77	1.45	2.66	3.75	4.71	5.59	6.38	7.10	7.74	8.36	8.90	9.40	9.82	10.16	10.50	10.80	11.06	11.28	11.44	...
22	.81	1.52	2.79	3.92	4.93	5.85	6.69	7.44	8.12	8.77	9.33	9.84	10.29	10.65	11.01	11.32	11.59	11.83	12.00	...
23	.84	1.59	2.92	4.10	5.15	6.11	6.99	7.77	8.49	9.16	9.75	10.27	10.74	11.12	11.50	11.82	12.10	12.35	12.53	...
24	.88	1.66	3.05	4.27	5.37	6.37	7.29	8.10	8.85	9.54	10.16	10.70	11.18	11.57	11.97	12.30	12.59	12.85	13.03	...
25	.91	1.72	3.17	4.45	5.59	6.62	7.57	8.42	9.20	9.91	10.56	11.12	11.61	12.01	12.42	12.75	13.05	13.33	13.50	13.57
30	1.09	2.05	3.77	5.29	6.62	7.82	8.92	9.92	10.80	11.65	12.32	12.99	13.55	13.96	14.39	14.76	15.06	15.30	15.48	...
TYPE I					TYPE II								TYPE III							

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Basic Horsepower Ratings

2060 — HP Ratings for 2060 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700
6	.30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.37	.66	.88	1.06	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.44	.80	1.09	1.34	1.56	1.74	1.89	...	...	...	...	...	...	...	...	...	...	...	...	...
9	.52	.94	1.30	1.62	1.90	2.15	2.36	2.55	2.72	...	...	...	...	...	...	...	...	...	...	...
10	.59	1.08	1.51	1.89	2.23	2.54	2.82	3.07	3.29	3.50	3.68	3.83	...	...	...	...	...	...	...	...
11	.66	1.21	1.71	2.15	2.54	2.92	3.25	3.58	3.84	4.12	4.34	4.56	4.93	...	...	...	...	...	...	...
12	.73	1.34	1.90	2.41	2.85	3.29	3.67	4.06	4.37	4.71	4.97	5.24	5.71	6.06	...	...	...	...	...	...
13	.79	1.47	2.09	2.66	3.15	3.65	4.08	4.52	4.88	5.27	5.59	5.91	6.46	6.92	7.25	...	...	...	...	...
14	.86	1.60	2.27	2.90	3.45	4.00	4.48	4.96	5.37	5.80	6.17	6.54	7.17	7.72	8.10	8.51	...	...	...	...
15	.92	1.72	2.45	3.14	3.74	4.34	4.86	5.39	5.85	6.32	6.73	7.14	7.86	8.48	8.92	9.40	...	...	...	...
16	.99	1.85	2.64	3.37	4.02	4.67	5.24	5.81	6.32	6.82	7.27	7.72	8.52	9.21	9.71	10.25	10.70	...	...	...
17	1.05	1.97	2.82	3.59	4.29	4.99	5.61	6.22	6.78	7.32	7.80	8.29	9.16	9.91	10.47	11.06	11.59	11.99	...	...
18	1.12	2.10	3.00	3.82	4.56	5.31	5.97	6.63	7.23	7.81	8.32	8.84	9.78	10.58	11.21	11.84	12.42	12.88	...	...
19	1.18	2.22	3.17	4.04	4.83	5.62	6.32	7.03	7.67	8.29	8.83	9.38	10.38	11.23	11.93	12.60	13.22	13.73	14.14	...
20	1.25	2.34	3.34	4.25	5.09	5.93	6.67	7.42	8.09	8.74	9.33	9.91	10.95	11.86	12.62	13.34	13.99	14.54	14.99	...
21	1.31	2.46	3.51	4.48	5.36	6.24	7.02	7.80	8.50	9.19	9.81	10.43	11.53	12.47	13.28	14.05	14.73	15.31	15.80	...
22	1.37	2.58	3.67	4.70	5.62	6.54	7.35	8.17	8.90	9.63	10.28	10.93	12.08	13.06	13.92	14.73	15.44	16.05	16.57	...
23	1.44	2.69	3.84	4.91	5.87	6.83	7.68	8.54	9.30	10.06	10.74	11.42	12.62	13.63	14.54	15.39	16.12	16.76	17.30	17.78
24	1.50	2.80	4.00	5.12	6.12	7.12	8.01	8.91	9.69	10.48	11.19	11.90	13.15	14.18	15.15	16.03	16.77	17.44	18.00	18.40
25	1.56	2.92	4.17	5.32	6.36	7.41	8.34	9.27	10.08	10.89	11.62	12.37	13.58	14.72	15.75	16.65	17.40	18.09	18.67	19.09
30	1.86	3.48	4.96	6.32	7.58	8.78	9.86	10.94	11.85	12.76	13.71	14.55	15.98	17.28	18.40	19.40	20.22	20.92	21.32	22.00
	TYPE I						TYPE II						TYPE III							

2080 — HP Ratings for 2080 Double Pitch Drive Chain

No. of Effective Teeth, Small Spkt.	HP Ratings @ Various RPM, Small Sprocket																			
	10	20	30	40	50	60	70	80	90	100	125	150	175	200	225	250	300	350	400	450
6	.32	.55	.76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	.38	.70	.98	1.22	1.44	1.63	1.80	...	...	...	...	...	...	...	...	...	...	...	...	...
8	.46	.84	1.18	1.50	1.78	2.04	2.28	2.50	2.70	2.88	...	...	...	...	...	...	...	...	...	...
9	.52	.98	1.39	1.76	2.11	2.43	2.74	3.02	3.29	3.53	4.08	4.54	...	...	...	...	...	...	...	...
10	.59	1.11	1.58	2.02	2.43	2.82	3.18	3.53	3.85	4.16	4.85	5.45	5.98	...	...	...	...	...	...	...
11	.66	1.24	1.77	2.27	2.76	3.20	3.60	4.02	4.38	4.77	5.60	6.33	6.98	7.56	8.07	...	...	...	...	...
12	.72	1.37	1.96	2.52	3.08	3.56	4.02	4.50	4.92	5.36	6.33	7.19	7.95	8.66	9.27	9.82	...	...	...	...
13	.79	1.49	2.15	2.77	3.38	3.81	4.44	4.97	5.45	5.93	7.02	8.02	8.89	9.72	10.42	11.08	...	...	...	...
14	.85	1.62	2.33	3.01	3.67	4.26	4.85	5.42	5.96	6.49	7.69	8.82	9.80	10.74	11.53	12.29	13.60	...	...	...
15	.91	1.74	2.52	3.25	3.96	4.60	5.25	5.86	6.45	7.03	8.34	9.60	10.68	11.73	12.60	13.46	14.94	...	...	...
16	.98	1.87	2.70	3.48	4.24	4.94	5.64	6.29	6.93	7.56	8.98	10.36	11.53	12.69	13.63	14.59	16.24	17.65	...	...
17	1.04	1.99	2.88	3.71	4.52	5.28	6.02	6.72	7.40	8.09	9.61	11.10	12.36	13.62	14.63	15.69	17.50	19.04	...	...
18	1.11	2.11	3.05	3.94	4.80	5.61	6.40	7.14	7.87	8.60	10.23	11.82	13.18	14.52	15.60	16.76	18.72	20.38	21.77	...
19	1.17	2.23	3.23	4.17	5.08	5.94	6.77	7.56	8.33	9.10	10.84	12.52	13.98	15.39	16.55	17.80	19.90	21.67	23.18	...
20	1.23	2.35	3.40	4.40	5.35	6.26	7.13	7.98	8.78	9.60	11.44	13.20	14.76	16.24	17.48	18.81	21.04	22.91	24.52	...
21	1.29	2.47	3.57	4.62	5.62	6.58	7.49	8.39	9.23	10.09	12.03	13.87	15.52	17.07	18.39	19.79	22.14	24.11	25.80	...
22	1.36	2.58	3.74	4.84	5.89	6.89	7.84	8.79	9.67	10.57	12.62	14.53	16.27	17.89	19.28	20.74	23.20	25.27	27.03	...
23	1.42	2.70	3.90	5.06	6.16	7.20	8.19	9.18	10.10	11.05	13.20	15.18	17.01	18.70	20.15	21.66	24.23	26.40	28.22	...
24	1.48	2.82	4.05	5.27	6.43	7.51	8.54	9.56	10.53	11.52	13.77	15.82	17.74	19.50	21.01	22.55	25.23	27.50	29.38	30.98
25	1.54	2.93	4.20	5.48	6.70	7.81	8.89	9.94	10.95	11.98	14.33	16.45	18.46	20.29	21.86	23.42	26.20	28.57	30.52	32.16
30	1.84	3.50	5.02	6.54	7.96	9.29	10.59	11.74	12.97	14.23	16.98	19.46	21.79	23.91	25.73	27.52	30.70	33.56	35.52	37.26
	TYPE I						TYPE II						TYPE III							

Explanation of Lubrication:

TYPE I: Steady Drip (4-10 drops/minute) shallow bath or manual w/ oil applied by brush or spout can to link plate edges when in lower span of chain.

TYPE II: Rapid Drip (20 drops/minute, min.) or continuous w/ shallow bath, disc or slinger.

TYPE III: Continuous w/disc, slinger or circulating pump.

Additional Information—ANSI Roller Chain Standard B29.3, Section A1.3.

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RELATED PRODUCTS



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Tensioner Frame, Idler Sprockets

Proper chain tension is necessary for normal life expectancy. It's also a prime consideration for the efficient, quiet operation of the drive.

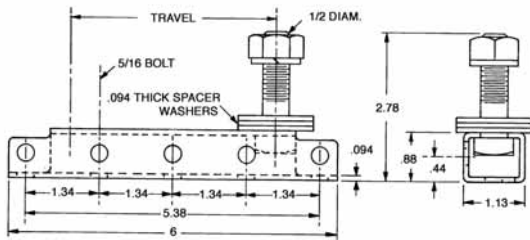
The tensioner frame shown below provides an economical means of locating an idler sprocket on a 1/2" diameter machine bolt or a 5/8" diameter spacer. Frame can be mounted in several positions on surfaces either parallel or perpendicular to the chain, suitable for either conventional or cantilever mounting.



CHAIN TENSIONER FRAME, P/N 102050

This formed steel frame has mounting holes in the bottom and one side so it can be mounted in several positions on surfaces parallel or perpendicular to the chain. Included is a 5/8" O.D. sleeve and a 1/2" diameter machine bolt to use with 1/2" and 5/8" bore idler sprockets.

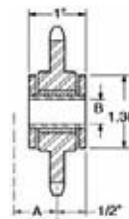
Spacer washers may be used to obtain the chain clearance required. Idler sprocket table below shows minimum space required for chain clearance. Part Number 102050, Weight .73 lbs.



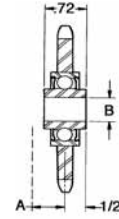
IDLER SPROCKETS

Although these idler sprockets are designed to be used with the frames shown above, they can be mounted on standard machine bolts as shown in table below.

Idler sprockets will operate at the same speeds permitted for driver sprockets of the same number of teeth. They are machined all over with teeth hardened to assure smooth-running drives. They are available with either bronze sleeve or ball bearings in the sprocket bore. The sleeve bearing runs on a hardened and ground steel journal. The ball bearings are double-sealed and prelubricated.



SLEEVE BEARING TYPE



BALL BEARING TYPE

For Chain:		Description +	Part No.	No. of Spkt. Teeth	Spkt. O.D.	Brg. Type	Wt.	A *	B †	Ref. Old No.
No.	Pitch									
35	3/8"	31E20	102052	20	2.593	Brz.	.53	.59	1/2	CT320
		35BB20H	102060			Ball	.30	.44	5/8	320H
41-40	1/2"	41E15	102053	15	2.652	Brz.	.58	.59	1/2	CT415
		40BB17H	102061	17	2.974	Ball	.50	.44	5/8	417H
40	1/2"	40BB18H	102070	18	3.14	Ball	.53	.44	5/8	...
		51E15	102054	15	3.315	Brz.	.83	.72	1/2	CT515
50	5/8"	50BB15H	102062			Ball	.60	.56	5/8	515H
		50BB17H	102073	17	.372	Ball	.78	.56	5/8	...
60, 60H	3/4"	61E14	102055	14	3.736	Brz.	1.09	.81	1/2	CT614
		60BB13H	102063	13	3.493	Ball	.90	.66	5/8	613H
		60BB15H	Δ	15	3.98	Ball	1.06	.66	5/8	...
80,80H	1"	80BB12H	102064	12	4.332	Ball	1.5	.69	5/8	812H

* Minimum space required for chain clearance.

† Size of standard machine bolt on which sprocket can be mounted.

Δ Non-Stock. Allow 2-4 weeks delivery.

+ "H" suffix indicates hardened teeth

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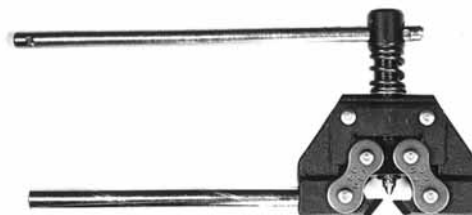
Chain Tools



Chain Assembly Tools

This unique tool was designed to make sizes 35 thru 240 chain installation easy. By hooking the two jaws into each end of the chain and turning the screw (handle) until the two ends almost meet, the connecting link can be inserted and fastened in place. The photo shows the Model 35 tool. The Model 80 uses a T-handle instead of a knob.

For Chain Nos.	Jaw Spread of Tool	Part No.	Wt. (Lbs.)
35 thru 60	2"	098190	.4
80 thru 240	5"	098191	2.2



**Chain Pin Extractors
(Chain Breaker)**

This fast working tool is practical for removing chain pins when roller chain needs to be disconnected or when various lengths of chain need to be made up.

Three sizes of pin extractors are available to use on riveted and cotted chain, sizes 25 thru 160. This tool, if properly used, will not damage chain and pins can be reused.

For Chain Nos.	Part No.	Ref. Model No.	Wt. (Lbs.)	Replacement Parts	
				Screw & Tip	Tip Only
25 thru 50	098175	101-1	1.0	391301*	098180
60 thru 100	098176	101-2	1.9	391304	098181
120 thru 160	098177	101-3	8.5	391308	098182

* Includes handle.

TORQUE-TAMER torque overload clutch offers thrifty overload protection that's a cinch to adjust.



See TORQUE TAMER Section for complete specifications and ordering information.

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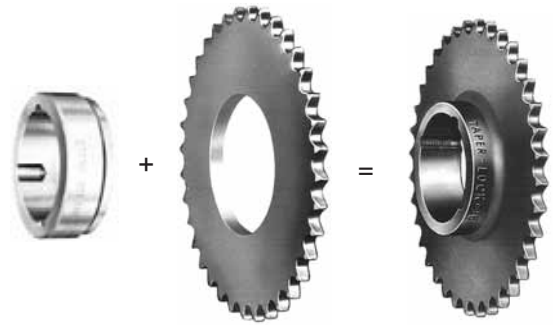


Custom TAPER-LOCK Sprockets

Non-stock or special TAPER-LOCK sprockets may be fabricated from stock TAPER-LOCK hubs and A-Plate sprockets rebored to fit the hubs. This provides the capability for fabricating sprockets with larger bore capacity, or number of teeth that are stocked as A-Plate but not

TAPER-LOCK. This operation can be done on location, or supplied by DODGE, price on application.

DODGE TAPER-LOCK hubs are available in three types: S, K and W/WA. All are of quality steel bar stock or forgings, easily welded, and ready to accept TAPER-LOCK Bushings. For more detailed information and dimensions, refer to Bushings/Hubs section of this catalog.



EXAMPLES

Chain Pitch	No. Teeth	TAPER-LOCK Hub	A-Plate Sprocket	Fabricated Sprocket
50	50	S30-6	50A50	50BTL50
60	34	S20-6	60A34	60BTL34
60	96	S35	60A96	60BTL96
100	42	835	100A42	100BTL42
140	80	WA60	140A80	140CTL80
240	54	WA70	240A54	240CTL54



TAPER-LOCK Hub/A-Plate Data Table

Hub No. ◇	Part No.	For Use With Bush. +	Bushing Bore Range	A-Plate Rebore Dia.	Minimum Number Teeth for Chain Pitch No.												
					35	40/41	50	60	80	100	120	140	160	180	200	240	
S16-4	097023	1610	1/2 - 11/16	2.875Δ	31	24	-	-	-	-	-	-	-	-	-	-	-
S16-6	097024	1610	1/2 - 11/16	2.875Δ	-	-	21	19	-	-	-	-	-	-	-	-	-
S20-6	097025	2012	1/2 - 2-1/8	3.4375Δ	36	28	24	21	-	-	-	-	-	-	-	-	-
S20-8	097015	2012	1/2 - 2-1/8	3.4375Δ	-	-	-	-	17	-	-	-	-	-	-	-	-
S25-6	097016	2517	1/2 - 2-11/16	4.125Δ	42	33	27	24	-	-	-	-	-	-	-	-	-
S25-8	097017	2517	1/2 - 2-11/16	4.125Δ	-	-	-	-	19	-	-	-	-	-	-	-	-
S25-10	097018	2517	1/2 - 2-11/16	4.125Δ	-	-	-	-	-	16	-	-	-	-	-	-	-
S25-16	097019	2517	1/2 - 2-11/16	4.125Δ	-	-	-	-	-	-	15	13	12	-	-	-	-
S30-10	097020	3020	7/8 - 3-1/4	5.125Δ	49	39	32	28	22	19	-	-	-	-	-	-	-
S30-16	097021	3020	7/8 - 3-1/4	5.125Δ	-	-	-	-	-	-	-	17	15	14	-	-	-
S35	097022	3535	1-3/16 - 3-15/16	6.375Δ	-	44	38	33	26	22	20	17	16	-	-	-	-
WA40	228089	4040	1-7/16 - 4-7/16	7.250Δ	-	-	45	38	30	25	22	20	18	17	15	-	-
WA45	228090	4545	1-15/16 - 4-15/16	8.000+	-	-	50	43	33	28	24	21	20	18	17	15	-
WA50	228091	5050	2-7/16 - 5	8.750+	-	-	52	46	35	29	26	23	21	19	18	15	-
WA60	228092	6050	3-7/16 - 6	12.250+	-	-	-	47	39	34	29	26	24	22	19	-	-
WA70	228093	7060	3-15/16 - 7	13.500+	-	-	-	51	42	36	32	28	26	24	21	-	-
WA80	228094	8065	4-7/16 - 8	14.250+	-	-	-	-	44	38	33	30	27	25	21	-	-
WA100	228095	10085	7 - 10	18.750+	-	-	-	-	-	47	41	36	33	30	26	-	-

◇ Refer to D1-12 & 13 for hub dimensions

REBore TOLERANCES

Δ +.004 + .001

+ +.010 + .004

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Sprocket Pitch Diameters

No. Teeth	Chain Number													
	25	35	41	40	50	60	80	100	120	140	160	180	200	240
9	.731	1.097	1.462	1.462	1.828	2.193	2.924	3.655	4.356	5.117	5.848	6.579	7.310	8.771
10	.809	1.214	1.618	1.618	2.023	2.427	3.236	4.045	4.854	5.663	6.472	7.281	8.090	9.708
11	.887	1.331	1.775	1.775	2.219	2.663	3.550	4.438	5.325	6.213	7.100	7.986	8.875	10.649
12	.996	1.449	1.932	1.932	2.415	2.898	3.864	4.830	5.796	6.762	7.728	8.693	9.660	11.591
13	1.045	1.567	2.089	2.089	2.612	3.134	4.179	5.224	6.269	7.313	8.358	9.402	10.447	12.536
14	1.124	1.685	2.247	2.247	2.809	3.371	4.494	5.618	6.741	7.865	8.988	10.112	11.235	13.482
15	1.203	1.804	2.405	2.405	3.006	3.608	4.810	6.013	7.215	8.418	9.620	10.822	12.025	14.429
16	1.282	1.922	2.563	2.563	3.204	3.845	5.126	6.408	7.698	8.971	10.252	11.533	12.815	15.377
17	1.361	2.041	2.721	2.721	3.401	4.082	5.442	6.803	8.163	9.524	10.844	12.245	13.605	16.327
18	1.440	2.160	2.879	2.879	3.599	4.319	5.759	7.199	8.639	10.078	11.518	12.957	14.397	17.276
19	1.519	2.279	3.038	3.038	3.798	4.557	6.076	7.595	9.114	10.633	12.152	13.670	15.190	18.227
20	1.598	2.397	3.196	3.196	3.995	4.794	6.392	7.990	9.588	11.186	12.784	14.383	15.980	19.177
21	1.678	2.516	3.355	3.355	4.194	5.033	6.710	8.388	10.065	11.743	13.420	15.096	16.775	20.129
22	1.757	2.635	3.513	3.513	4.392	5.270	7.027	8.784	10.541	12.297	14.054	15.810	17.567	21.080
23	1.836	2.754	3.673	3.672	4.590	5.508	7.344	9.180	11.016	12.852	14.688	16.524	18.360	22.032
24	1.915	2.873	3.831	3.831	4.788	5.746	7.661	9.576	11.492	13.407	15.322	17.238	19.153	22.984
25	1.995	2.992	3.989	3.959	4.987	5.984	7.979	9.974	11.969	13.963	15.958	17.952	19.947	23.936
26	2.074	3.111	4.148	4.148	5.185	6.222	8.296	10.370	12.444	14.518	16.592	18.666	20.740	24.889
27	....	3.230	4.307	4.307	5.384	6.461	8.614	10.768	12.921	15.075	17.228	19.381	21.535	25.841
28	2.233	3.349	4.465	4.465	5.582	6.698	8.931	11.164	13.397	15.629	17.862	20.096	22.327	26.794
29	....	3.468	4.625	4.625	5.781	6.937	9.249	11.561	13.874	16.186	18.498	20.810	23.123	27.747
30	2.392	3.588	4.783	4.783	5.979	7.175	9.567	11.959	14.351	16.742	19.134	21.525	23.917	28.700
31	....	3.707	4.942	4.942	6.178	7.413	9.884	12.355	14.826	17.297	19.768	22.240	24.710	29.654
32	2.551	3.826	5.101	5.101	6.376	7.652	10.202	12.753	15.303	17.854	20.404	22.955	25.505	30.607
33	....	3.945	5.260	5.260	6.575	7.890	10.520	13.150	15.780	18.410	21.040	23.670	26.300	31.560
34	....	4.064	5.419	5.419	6.774	8.129	10.838	13.548	16.257	18.967	21.676	24.385	27.095	32.514
35	....	4.184	5.578	5.578	6.973	8.367	11.156	13.945	16.734	19.523	22.312	25.101	27.890	33.467
36	2.869	4.303	5.737	5.737	7.171	8.606	11.474	14.343	17.211	20.080	22.948	25.815	28.685	34.421
37	....	4.422	5.896	5.896	7.370	8.841	11.792	14.740	17.688	20.636	23.584	26.531	29.480	35.375
38	....	4.541	6.055	6.055	7.569	9.083	12.110	15.138	18.165	21.193	24.220	27.246	30.275	36.329
39	....	4.661	6.214	6.214	7.768	9.321	12.428	15.535	18.642	21.749	24.856	27.962	31.070	37.283
40	3.187	4.780	6.373	6.373	7.966	9.560	12.745	15.933	19.119	22.306	25.492	28.677	31.865	38.237
41	....	4.999	6.532	6.532	8.165	9.798	13.064	16.330	19.596	22.862	26.128	29.393	32.660	39.191
42	....	5.018	6.691	6.691	8.364	10.037	13.382	16.728	20.073	23.419	26.764	30.108	33.455	40.145
43	....	5.138	6.850	6.850	8.563	10.275	13.700	17.125	20.550	23.975	27.400	30.824	34.250	41.099
44	....	5.257	7.009	7.009	8.761	10.514	14.018	17.523	21.027	24.532	28.036	31.539	35.045	42.053
45	3.584	5.376	7.168	7.168	8.960	10.752	14.336	17.920	21.504	25.088	28.672	32.255	35.840	43.007
46	....	5.495	7.327	7.327	9.159	10.991	14.654	18.318	21.981	25.645	29.308	32.971	36.635	43.961
47	....	5.615	7.486	7.486	9.358	11.229	14.972	18.715	22.458	26.201	29.944	33.686	37.430	44.915
48	3.823	5.734	7.645	7.645	9.556	11.468	15.290	19.113	22.935	26.758	30.580	34.402	38.225	45.869
49	....	5.853	7.804	7.804	9.755	11.706	15.608	19.510	23.412	27.314	31.216	35.118	39.020	46.824
50	....	5.972	7.963	7.963	9.954	11.945	15.926	19.908	23.889	27.871	31.852	35.834	39.815	47.778
51	....	6.092	8.122	8.122	10.153	12.183	16.244	20.305	24.366	28.427	32.488	36.549	40.610	48.732
52	....	6.211	8.281	8.281	10.351	12.422	16.562	20.703	24.843	28.984	33.124	37.265	41.405	49.687
53	....	6.330	8.440	8.440	10.550	12.660	16.850	21.100	25.320	29.540	33.760	37.981	42.200	50.641
54	4.300	6.449	8.599	8.599	10.749	12.959	17.198	21.498	25.797	30.097	34.396	38.696	42.995	51.595
55	....	6.569	8.758	8.758	10.948	13.137	17.516	21.895	26.274	30.653	35.032	39.412	43.790	52.550
56	....	6.688	8.917	8.917	11.147	13.376	17.835	22.294	26.753	31.211	35.670	40.128	44.587	53.504
57	....	6.807	9.077	9.077	11.346	13.615	18.153	22.691	27.230	31.765	36.306	40.844	45.383	54.458
55	....	6.927	9.235	9.235	11.544	13.853	18.479	23.089	27.707	32.324	36.942	41.560	46.177	55.413
59	....	7.046	9.395	9.395	11.743	14.092	18.789	23.486	28.184	32.881	37.578	42.276	46.973	56.368
60	4.777	7.165	9.554	9.554	11.942	14.330	19.107	23.584	28.663	33.437	38.214	42.991	47.768	57.322
68	....	8.120	10.826	10.826	13.533	16.240	21.653	27.066	32.480	37.893	43.306	48.719	54.132	64.958
72	5.732	5.997	11.463	11.463	14.329	17.195	22.926	28.658	34.359	40.121	45.852	51.583	57.315	68.777
76	....	9.074	12.099	12.099	15.124	18.149	24.198	30.248	36.297	42.347	48.396	54.446	60.495	72.595
80	....	9.552	12.736	12.736	15.919	19.103	25.471	31.839	38.207	44.574	50.942	57.310	63.678	76.414
84	....	10.029	13.372	13.372	16.715	20.058	26.744	33.430	40.116	46.802	53.488	60.175	66.860	80.233
95	....	11.342	15.122	15.122	18.903	22.684	30.245	37.806	45.368	52.929	60.490	68.051	75.612	90.735
96	....	11.461	15.282	15.252	19.102	22.922	30.563	38.204	45.845	53.485	61.126	68.767	76.408	91.690
102	....	12.177	16.236	16.236	20.296	24.355	32.473	40.591	48.710	56.828	64.946	73.064	81.182	97.418
112	13.371	17.827	17.527	22.284	26.741	35.655	44.569	53.483	62.396	71.310	80.225	89.137	106.966

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Sprocket Dimensions, Chain Data

Sprocket Tooth Profile Dimensions

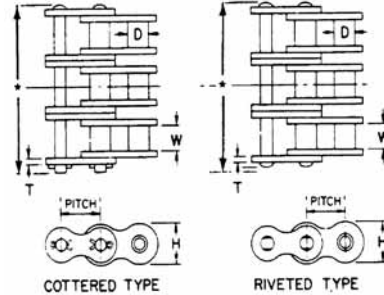
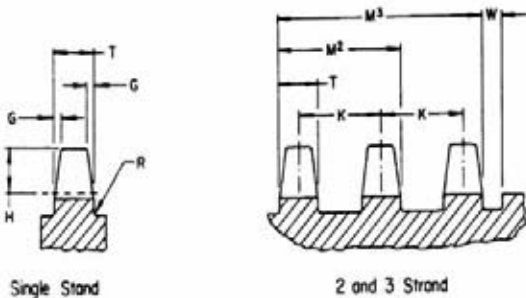
Ref. For Single & Multiple Chain				G	H	K	M ²	M ³	R Max.	Nominal Tooth Thickness (T)		Tolerance on "T"		
Chain No.	Pitch	Roller Dia.	Roller Width							Using Single Strand Chain	Using 2 and 3 Strand Chain	For Machined Sprocket *	For Sprocket Which Is Not Machined†	W Side Clearance
35	3/8	.200	3/16	3/64	3/16	.399	.561	.960	.015	.168	.162	+0.00-0.08	+0.00-0.27	3/16
41	1/2	.306	1/4	1/16	1/4	.....	.....	.....	.020	.227	.....	+0.00-0.09	+0.00-0.32	7/32
40	1/2	.312	5/16	1/16	1/4	.566	.841	1.407	.020	.284	.275	+0.00-0.09	+0.00-0.35	1/4
50	5/8	.400	3/8	5/64	5/16	.713	1.045	1.758	.025	.343	.332	+0.00-0.10	+0.00-0.36	9/32
60	3/4	.469	1/2	3/32	3/8	.897	1.341	2.238	.030	.459	.444	+0.00-0.11	+0.00-0.36	11/32
80	1	.625	5/8	1/8	1/2	1.153	1.710	2.863	.040	.575	.557	+0.00-0.12	+0.00-0.40	7/16
100	1-1/4	.750	3/4	5/32	5/8	1.408	2.077	3.485	.050	.692	.669	+0.00-0.14	+0.00-0.46	17/32
120	1-1/2	.875	1	3/16	3/4	1.789	2.683	4.472	.060	.924	.894	+0.00-0.16	+0.00-0.57	21/32
140	1-3/4	1.000	1	7/32	7/8	1.924	2.818	4.742	.070	.924	.894	+0.00-0.16	+0.00-0.57	3/4
160	2	1.125	1-1/4	1/4	1	2.305	3.424	5.729	.080	1.156	1.119	+0.00-0.19	+0.00-0.62	7/8

* Represents Type B or C hub type sprocket.

† Represents an "A" plate sprocket or a welded sprocket using an "A" plate.

Sprockets

Roller Chain



DYNA-SYNC

HT Synchronous Belts

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ANSI Standard Roller Chain Dimensions

ANSI No.	Roller W	Roller D	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
25-2	1/8	.130	.237	.37	.34	875
25-2	1/8	.130	.237	.63	.59	1750
25-3	1/8	.130	.237	.88	.84	2626
35	3/16	.200	.356	.56	.50	2100
35-2	3/16	.200	.356	.96	.90	4200
35-3	3/16	.200	.356	1.36	1.31	6300
41	1/4	.306	.383	.65	.57	2000
40	5/16	.312	.475	.72	.67	3700
40-2	5/16	.312	.475	1.29	1.24	7400
40-3	5/16	.312	.475	1.85	1.80	11100
50	3/8	.400	.594	.89	.83	6600
50-2	3/8	.400	.594	1.60	1.55	13200
50-3	3/8	.400	.594	2.31	2.26	19800
60	1/2	.469	.712	1.11	1.04	8500
60-2	1/2	.469	.712	2.01	1.94	17000
60-3	1/2	.469	.712	2.91	2.84	25500
80	5/8	.625	.950	1.44	1.32	14500
80-2	5/8	.625	.950	2.59	2.47	29000
80-3	5/8	.625	.950	3.74	3.62	43500

* Dimensions are across pins.

ANSI No.	Roller W	Roller D	Inside Link Plate Height	Cottered Chain Width*	Riveted Chain Width*	Average Tensile Strength
100	3/4	.750	1.187	1.73	1.61	24000
100-2	3/4	.750	1.187	3.14	3.02	48000
100-3	3/4	.750	1.187	4.56	4.43	72000
120	1	.875	1.425	2.14	2.00	34000
120-2	1	.875	1.425	3.93	3.79	68000
120-3	1	.875	1.425	5.72	5.58	102000
140	1	1.000	1.662	2.31	2.14	46000
140-2	1	1.000	1.662	4.24	4.07	92000
140-3	1	1.000	1.662	6.16	6.00	138000
160	1-1/4	1.125	1.900	2.73	2.54	58000
160-2	1-1/4	1.125	1.900	5.04	4.85	116000
160-3	1-1/4	1.125	1.900	7.35	7.16	174000
180	1-13/32	1.406	2.137	3.15	2.88	76000
180-2	1-13/32	1.406	2.137	5.75	5.48	152000
180-3	1-13/32	1.406	2.137	8.34	8.07	228000
200	1-1/2	1.562	2.375	3.44	3.12	95000
200-2	1-1/2	1.562	2.375	6.26	5.94	190000
200-3	1-1/2	1.562	2.375	9.08	8.76	285000
240	1-7/8	1.875	2.812	4.06	3.72	130000
240-2	1-7/8	1.875	2.812	7.52	7.18	260000

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Installation, Maintenance

Installation of Roller Chain Drives

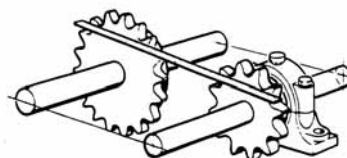
Shaft Alignment—Shafts must be parallel. The use of a spirit level is recommended to make sure shafts are horizontal; then, if the distance between the shafts are equal on both sides of the drive, the shafts are parallel. Shafts, bearings and supporting structure should be suitable to maintain this alignment.

Sprocket Location—Locate each sprocket as close as possible to a bearing.

Sprocket Alignment—Sprockets must be aligned accurately. This can best be accomplished by checking with a straight edge along the finished sides of the sprockets as shown in the drawing.

Chain Tension—Chains should be installed fairly tight with only a small amount of slack. In the case of vertical drives the chain should be kept snug. New chains will loosen up slightly as the joints seat themselves, causing initial elongation which is many times greater than the elongation during the balance of the chain life. After the first several weeks of operation it is advisable to adjust the centers, particularly on long center drives. After this initial elongation, with proper care and lubrication, roller chains will give long service without undue elongation or wear.

Center Distance—It is desirable to provide some means of adjusting the center distance between sprockets.



This is particularly true with drives of long center distance. When the centers are fixed it is advisable to use an idler sprocket to provide the proper chain tension originally, and also to compensate for natural chain wear.

Hardened Teeth—The advantages gained by hardening the teeth of the small sprocket easily offset the hardening cost. Longer life, increased strength, equalized wear between small and large sprockets—all result in lower overall cost to the chain drive user. Hardened steel sprockets are recommended for use under the following conditions: 1. Slow speed, heavily loaded drives where chains and sprockets are selected on the basis of chain tensile strengths; 2. Moderate speed drives where sprockets have 17 teeth or less; 3. High speed drives where sprockets have 25 teeth or less; 4. When speed ratios exceed 4 to 1; 5. When drives are operating exposed to dirty or dusty surroundings.

Lubrication of Roller Chain Drives

Lubrication of roller chains is essential for effectively minimizing metal-to-metal bearing contact of pin-bushing joints of the chain. Oil should be applied to outside plate and inside plate edges, since access to pin-bushing areas is possible only through clearances between the outside plates and the inside plates. Oil applied on the center line of rollers cannot reach pin-bushing joints.

Chain drives should be protected against dirt and moisture and the oil supply kept free of contamination. Periodic oil change is desirable. A good grade of non-detergent petroleum base oil is recommended. Heavy oils and greases are generally too stiff to enter and fill the chain joints. The following table indicates the proper lubricant viscosity for various surrounding temperatures. For higher temperatures—consult factory.

Table 41—Chain Lubrication Viscosity for Surrounding Temperatures

Temperature Degrees F.	Recommended Lubricant
20 to 40	SAE 20
40 to 100	SAE 30
100 to 120	SAE 40
120 to 140	SAE 50

The method of lubrication, which is governed by the speed of the chain and the amount of power transmitted, is indicated in the HP Rating Tables. Note that these are minimum lubrication requirements and the use of a better type

(for example, Type 4 instead of Type 3) is acceptable and may be beneficial. The four basic types of lubrication indicated are described below.

Type A—Manual Lubrication—Oil is applied periodically with a brush or spout can, preferably once every 8 hours of operation. Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints.

Type A—Drip Lubrication—Oil drops are directed between the link plate edges from a drip lubricator. Volume and frequency should be sufficient to prevent discoloration of lubricant in the chain joints. Precaution must be taken against misdirection of the drops by windage.

Type B—Bath or Disc Lubrication—With bath lubrication the lower strand of chain runs through a sump of oil in the drive housing. The oil level should reach the pitch line of the chain at its lowest point while operating. With disc lubrication, the chain operates above the oil level. The disc picks up oil from the sump and deposits it onto the chain, usually by means of a trough. The diameter of the disc should be such as to produce rim speeds between 600 fpm minimum and 8000 fpm maximum.

Type C—Oil Stream Lubrication—The lubricant is usually supplied by a circulating pump capable of supplying each chain drive with a continuous stream of oil. The oil should be applied inside the chain loop evenly across the chain width, and directed at the lower strand.

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NOTES



DYNA-SYNC

HT Synchronous Belts

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FEATURES/BENEFITS



Today, the industrial marketplace demands quality products and services. DODGE has the experience and expertise to meet those demands from engineering support to on-time delivery. DODGE offers the broadest range of conveyor pulleys with a combination of the best resources for pulley manufacturing. The DODGE Conveyor Components Team is ready to provide you the best customer service in the industry.

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



Lagged Drum Pulley



T-Section Super Pulley



Wing Pulley



Mine Duty Xtra Pulley



Steel Split Pulley



Conveyor Pulley Locking Devices

HE Bushing/Hub



- Most dependable mounting system for conveyor pulleys
- Specifically designed for drum and wing pulleys
- Flange mount design
- Easy installation/removal
- Shaft diameters to 12"
- Taper angle of 14° reduces axial movement along the shaft to tighten the bushing
- Disc deflection and prestressing are greatly reduced

Keyless Locking Devices



- High torque capability
- No axial movement during assembly
- Shrink fit design assures a tight mechanical fit
- Easy installation/removal
- No keyway stress

Details for TAPER-LOCK Bushings – See page PT6-2

Details for QD Bushings – See page PT6-15



SPECIFICATIONS



DYNA-SYNC

HT Synchronous Belts

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Belt Conveyor Pulleys

DODGE offers two standard designs that are stocked for quick delivery, CEMA duty (Conveyor Equipment Manufacturers Association), HE (High Endurance) welded hub and Mine Duty Extra HE integral hub construction. These are available with a plain surface and rubber lagged. HE bushings with 14 degree taper and 1/2 inch 60 diameter SBR rubber with herring bone groove lagging, are standard, stocked features.

DODGE recommends pulley designs within the four classes of service detailed below. All of our designs strive for balance between cost and reliability. When possible, welds are avoided or eliminated to maintain the full strength of the base metal. Our welded designs rely upon the chemistry of the base metal, the type of weld and the geometry of the structure to achieve optimum post-weld performance as explained below. *(Detailed descriptions of the four service classes are available in the Rockwell Automation publication, DODGE Global Conveyor Pulley Specifications & Technical Aspects, Selection and Applications.)*

WARRANTY

• Class IV and III pulleys are conditionally warranted against defects in material and workmanship for one year of operation. A two-year warranty is available when loading information is provided.

Note: Special Construction features listed at the top of page PT13-6 can be added to both Class IV and III pulleys to extend service life. Because these pulleys are made-to-order, they will require longer lead-time for shipment. The Special Construction modifications must be quoted at the time of inquiry and before order entry.

• Class II and I pulleys are conditionally warranted against defects in material and workmanship for two years of operation because loading information must be provided.

CLASS IV

DODGE Heavy Duty CEMA Standard drum pulleys use 14 degree taper welded hubs and bushings, and certified steel with special consideration for post weld strength with submerged arc welds. These pulleys meet or exceed all

requirements for steel drum pulleys established by CEMA and as detailed in ANSI standard number B105.1. The standard establishes load ratings and dimensions for use with fabric belts rated to 750 PIW (Pounds per Inch of belt Width).

CLASS III

DODGE Mine Duty Extra pulleys use a proprietary 14 degree one piece integral hub to accept HE bushings. This eliminates the two welds of the hub into the end disc and delivers 100% of the capacity of the end disc steel. There is not a universal standard published for this class of service. The DODGE MDX design gives much higher safety factors than pulleys designed to meet the CEMA load ratings while fitting into the CEMA dimensions.

CLASS II

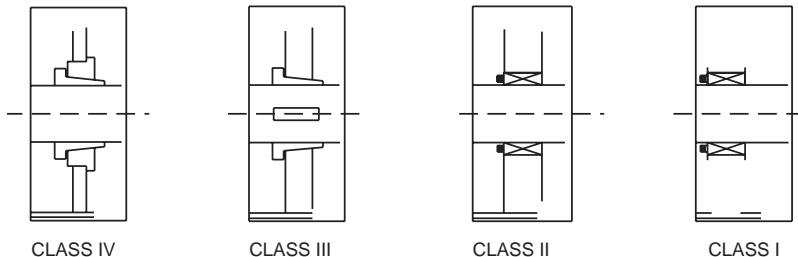
DODGE Engineered pulleys utilize one-piece integral hub-and-end-discs and either HE 14 degree taper compression bushings or keyless locking devices. They are designed specifically to meet customer supplied load and tension ratings. This class is for fabric or steel cable conveyor belts rating to 2,499 PIW. These pulleys incorporate machined rims and laggings, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing.

CLASS I

DODGE Engineered pulleys with one piece "T" section machined end discs are continuously butt welded to the pulley rim for fabric or steel cable belts rated over 2,500 PIW up to the maximum available from belt manufacturers, currently in excess of 10,000 PIW. These pulleys use keyless locking devices for shafts up to 30" in diameter. These pulleys incorporate machined rims and lagging, static balance, stress relieving, magnetic particle and/or ultrasonic weld testing. All Class I pulleys are manufactured within a 60 step documented Quality Assurance Process.

Important Note: To Ensure You Get The Right Class Of Pulley For Your Application, Please Fill Out And Send In Form DMR 1477, Shown On Page PT13-9.

Bushing and End Disc Constructions



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Dodge Conveyor Design Program

The DODGE Computerized Conveyor Design Program selects DODGE/RELIANCE drive products for simple horizontal or uphill conveyors up to 2500 feet long, 800 feet lift, and 2500 tons per hour. The program operates with a minimum of input information and provides detailed design and product information as output. Input variables and output data are:

INPUT

- Conveyor Capacity (tons per hour)
- Length of Conveyor
- Lift of Conveyor
- Basic Conveyor Profile (7 main profiles)
- Materials to be Moved
- Belt Speed (not required, can be selected by program)
- Belt Width (not required, can be selected by program)
- Idler Angle (not required, can be selected by program)

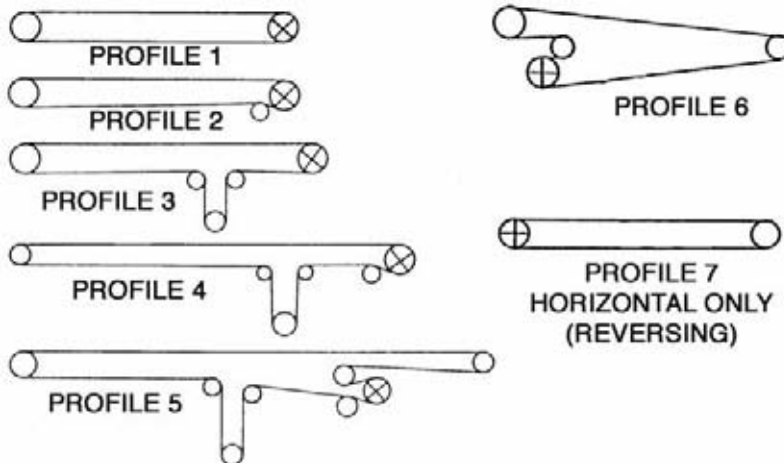
OUTPUT

- Motor Horsepower
- Belt Width (if not input)
- Idler Angle (if not input)
- Belt Speed (if not input)
- Drive Pulley RPM
- Belt Tensions (& take-up weight)
- Pulley Diameters, Face Width & Shaft Diameter
- Bearing Centers
- Lagging
- Shaft Lengths
- Bearing Diameter with L10 Life
- Maximum Running Belt Tension (PIW)
- Backstop Requirement
- DODGE Torque-Arm Reducers Selected

Pulley Profiles

Rockwell Automation has a conveyor design program for selecting pulleys for conveyor profiles shown. For more information and License Agreement, call 864-297-4800 or FAX 864-281-2318.

Only the seven types of profiles shown are available for design program analysis.





HOW TO ORDER



Standard, Stocked CEMA and Mine Duty Extra Pulleys

The DODGE Global Pulley Specifications on page PT13-4 direct customers to one of the four service or application classes. If customers know their pulley description and the Dodge catalog, they can order pulleys for Class IV (CEMA Standard) and Class III (Mine Duty Extra) by part number, bare or lagged, flat faced or taper crowned.

However, the DODGE part number is often not known and the customer will inquire based upon pulley diameter, face width and hub size. CEMA standards for pulley face width are belt width + 2 inches up to 42 inch belts and belt width + 3 inch from 48 inch to 60 inch belts. Drum and wing pulley diameters are dependent upon belting and the shaft diameter required for the application. Availability from stock is best for standard CEMA dimensions.

PULLEY ASSEMBLIES

One of the most popular services we offer is to package and assemble pulleys, shaft, bearings and coupling halves for shipment, ready to install on the customer's conveyor truss. However, to do this we must have accurate shaft dimensions and tolerances at the time of order entry. These determine the hub size of the pulley and the bearing size. Bearings are ordered from another DODGE plant. The pulley assembly process can be shortened by providing the shaft details outlined in form **DMR 1446** (page PTPT13-7). Please note – all pulley assemblies are considered non-standard because of the variability of size and weight.

Special Construction Pulleys

There are Special Construction specifications that can be stipulated by the customer to extend the service life of Class IV CEMA and Class III Mine Duty Extra pulleys, for demanding applications, or to meet special job requirements. If these modifications are required, the products will become Special Construction made-to-order and identified by order number. These nonstandard modifications must be documented and quoted at the time of inquiry and before order entry.

Special Construction Features Include
But Are Not Limited To:

1. Rim and rubber lagging thickness
2. Lagging rubber material and durometer
3. Turning steel rims and/or rubber lagging to a specified total indicated run-out (TIR)
4. End disc steel thickness
5. Shaft material surface finish (RMS) and turndown radii

6. Keyless locking devices with dust covers vs standard HE 14-degree compression bushings
7. Post weld thermal stress relieving before machining
8. Magnetic particle and/or ultra sonic weld inspections
9. Static or dynamic balancing
10. Identification tags
11. Export or other special packaging

ENGINEERED, MADE-TO-ORDER PULLEYS

All DODGE heavy duty CEMA or Mine Duty Extra pulleys are designed to meet or exceed the CEMA steel pulley ANSI standard B105.1. However, for pulleys engineered to the customer's application loads and tensions, we require completion of the Engineered Pulley Data Sheet, **DMR 1447** (page PT13-9).

The selection process recommended by Rockwell Automation for DODGE conveyor pulley is covered on page PT13-10.

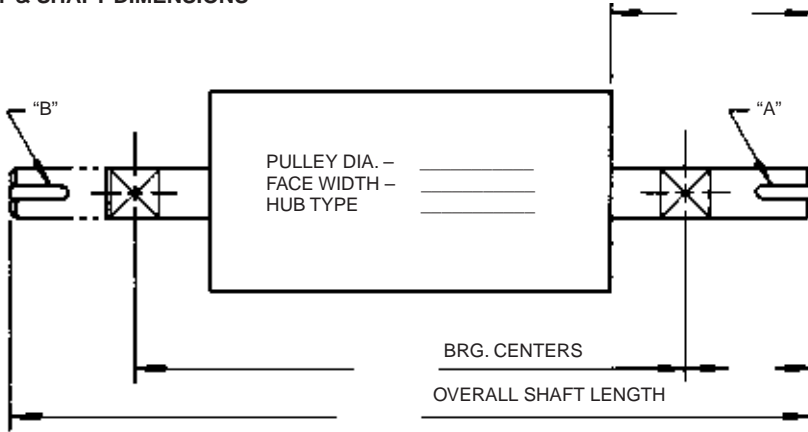
FEATURES/BENEFITS PAGE PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	MODIFICATIONS/ACCESSORIES PAGE PT13-35	ENGINEERING/TECHNICAL PAGE PT13-40
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Pulley Assemblies

To order shafting, please copy and complete the sketches shown below (DMR1446).

DRIVE PULLEY & SHAFT DIMENSIONS

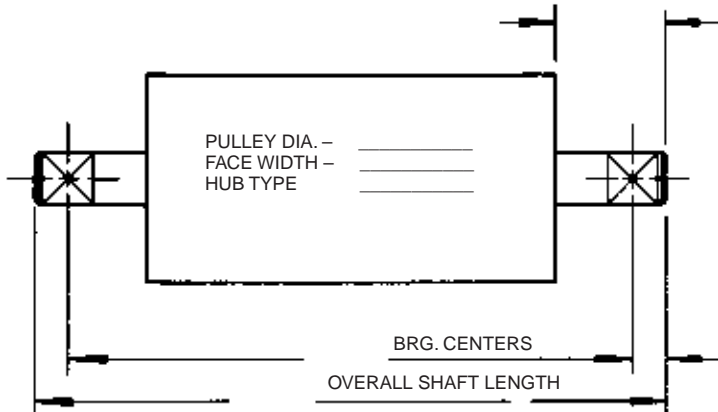


SHAFT DIA. AT HUB - _____
 SHAFT DIA. AT BRG. - _____
 SHAFT DIA. AT "A" - _____
 SHAFT DIA. AT "B" - _____
 NUMBER OF KEYSEATS - _____

KEYSEAT "A" - ____ X ____ X ____ LONG
 KEYSEAT "B" - ____ X ____ X ____ LONG
 DIRECTION OF ROTATION _____
 (LOOKING AT DRIVEN END)
 LAGGING THICKNESS - _____
 TYPE - _____

NON-DRIVE PULLEY & SHAFT DIMENSIONS

DRUM -
 WING -



SHAFT DIA. AT HUB - _____
 SHAFT DIA. AT BRG. - _____

KEYSEAT - 0 _____, 1 _____, 2 _____



NOMENCLATURE



Pulleys

(QTY) Diameter X Face Width • Face Type • Hub Type & Size • Class

(QTY) Lagging Thickness & Type

(QTY) Bushing Size & Bore

- Diameter:** 6"-60" (Other diameters available upon request)
- Face Width:** 12"-78" (Other face widths available upon request)
- Face Type:** CR – Crown Face
ST – Straight Face
- Pulley Type:** DR – Drum
WI – Wing
- Hub Type & Size:** HE – (High Endurance) and Size (HE25)
T-L – (TAPER-LOCK)
QD – (Quick Disconnect)
Keyless Locking
- Class:** CEMA (Heavy Duty)
MDX (Mine Duty Extra)
MD (Mine Duty)
ENG (engineered)
- Lagging Thickness:** 1/4", 3/8", 1/2", 3/4", 1" (Standard) Other Thickness Available on Request
- Lagging Material & (Durometer):** SBR (60/45/70), D-LAG (60), Neoprene (60/45/70), Ceramic, Holz
- Lagging Pattern:** Plain, Herringbone, Chevron, Diamond, Tuff-Top, Concentric, Parallel, Lorig Aligner
- Bushing Size:** HE25 (Max. Bore 2-1/2")
F30 (Max. Bore 3,)
E (Max. Bore 2-15/16")
- Examples:** 1-12 x 26 CR DR HE25 MDX
3/8" Herringbone Lagging
2-HE25 x 2-7/16" Bushings

1-14 x 42 CR WI T-L F25
2-2517 x 2-7/16" TAPER-LOCK Bushings

1-16 x 44 ST DR QD F
2-F x 3-7/16" QD Bushings

Shafting

Diameter X Length • # of Keyseats • # of Turndowns x Turndown Diameters

- Examples:** 2-7/16" x 63"
3-7/16" x 84", 3KS
3-15/16" x 76", 3KS, 2TD X 3-7/16"

NOTE: All shafts require a drawing which indicates the location of keyseats, length of turndowns, bearing centers, turndown radii and location of pulley on the shaft.

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Engineered Pulley Data Sheet

LIMITED WARRANTY: Rockwell Automation offers a 2-year limited warranty and a serialized name plate for all engineered pulleys designed to customer supplied loading information.

Selection of DODGE Conveyor Pulleys can be simplified by supplying the information in the Application Data Sheet provided below (DMR1447). DODGE can then engineer the correct pulleys or pulley assemblies for your application.

Company Name _____ Date _____ By _____

Address _____ Est. No. _____

Project _____

Conveyor Information –

Belt: Fabric Steel Other _____ Belt Width _____ in.

Take-Up: Screw Gravity Hyd. Other _____

Drive Motor: HP _____ Belt Speed _____ FPM Capacity _____ TPH

Center to Center Distance _____ Lift in Feet _____

Pulley Data:

Conveyor Identification							
Pulley Location (Drive, Tail, etc.)							
Pulley Quantity							
Pulley Type (Drum or Wing)							
Diameter x Face							
Crown or Straight							
Lagging Thickness - Type of Grooves							
Shaft Diameter through Pulley							
Shaft Diameter through Bearing							
Shaft Diameter at Drive							
Shaft Length							
Number of Keyseats							
Drive Type (Sprocket, Coupling, Shaft Mount Reducer, etc.)							
Bearing Centers							
Arc of Contact _____ ° T ₁ _____ Lbs. T ₂ _____ Lbs.							

Special Requirements:

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SELECTION



Drum and Wing Pulleys - CEMA, MDX, Mine Duty

Proper selection of pulley diameter, face width and shaft diameter can easily be determined if the following information is known:

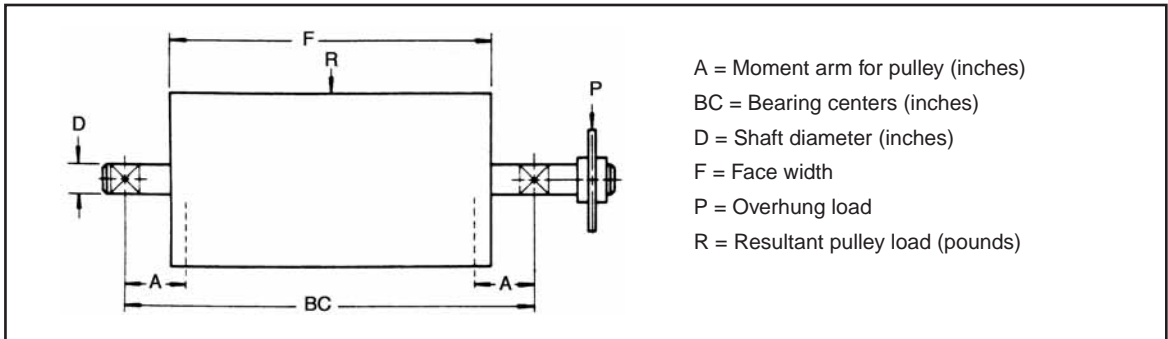
Belt Width (BW)

Bearing Centers (BC)

Arc of Belt Contact (∞)

Tight Side Belt Tension (T_1) (for drive pulleys only)*

Slack Side Belt Tension (T_2)*



- A = Moment arm for pulley (inches)
- BC = Bearing centers (inches)
- D = Shaft diameter (inches)
- F = Face width
- P = Overhung load
- R = Resultant pulley load (pounds)

STEP 1

Determine Required Pulley Face Width

From: $F = BW + 2"$ (for BW 42" and under)
 $F = BW + 3"$ (for BW over 42")

Where: F = Pulley face width
BW = Belt width

Note: For replacement pulleys use face width of existing pulleys.

STEP 2

Determine Bearing Center Minus Face Dimension

From: $BCMF = BC - F$

Where: BCMF = Bearing center minus face dimension
F = Face width
BC = Bearing centerline to centerline dimension

Note: This selection guide is for conveyors with fabric belting. For other conveyor systems, consult factory for pulley selection.

***Note:** If belt tensions T_1 and T_2 are not known, see page for determination.

STEP 3

Determine Pulley Pounds Per Inch of Belt Width

From: $PIW = T_1 \div BW$ (for drive pulleys)
 $PIW = T_2 \div BW$ (for non-drive pulleys)

Where: PIW = Pounds per inch of width value
 T_1 = Tight side tension
 T_2 = Slack side tension
BW = Belt Width

STEP 4

Determine Minimum Pulley Diameter

(Drum pulleys only) Determine minimum pulley diameter using PIW, arc of belt contact (∞) and Table 1. Reading across table from proper arc of contact select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 1 and must be greater than the belt manufacturer's recommended minimum diameter.

(Wing pulleys only) Determine minimum pulley diameter using PIW and Table 2. Select pulley diameter with PIW rating greater than actual PIW. Final pulley diameter may be greater than the diameter selected from Table 2 and must be greater than the belt manufacturer's recommended minimum diameter.



Drum and Wing Pulleys

TABLE 1

Use in **STEP 4** to determine minimum pulley diameter for *Drum Pulleys Only*
MAXIMUM BELT TENSION (Pounds Per Inch of Belt Width)

Arc of Contact (Deg.)	PULLEY DIAMETER (Inches)													
	8	10	12	14	16	18	20	24	30	36	42	48	54	60
10	65	80	95	120	145	175	205	260	345	430	520	605	690	775
20	50	60	75	95	115	135	160	200	265	335	400	465	535	600
30	45	55	65	80	100	115	140	175	230	290	345	405	460	520
40	35	45	55	70	85	100	120	150	200	245	295	345	395	445
50	30	40	45	60	70	85	100	130	170	215	255	300	340	385
60	30	40	45	60	70	85	100	125	165	205	250	290	330	375
70	30	40	50	60	75	85	105	130	175	220	260	305	350	395
80	35	45	50	65	80	95	115	140	190	235	285	330	375	425
90	35	45	55	70	85	100	120	150	200	255	305	355	405	455
100	40	50	60	75	90	110	130	160	215	270	325	380	430	485
110	45	55	65	80	100	115	140	175	230	290	345	405	460	520
120	45	55	65	85	105	120	145	185	245	305	365	425	490	550
130	50	60	75	95	115	135	160	200	265	335	400	465	535	600
140	55	70	80	105	125	150	180	225	300	375	450	525	600	675
150	60	75	90	115	140	170	200	250	335	420	505	590	670	755
160	70	85	100	130	160	185	225	280	375	465	560	650	745	840
170	75	95	115	145	175	205	250	310	415	520	620	725	830	930
180	85	105	125	160	195	230	275	345	460	575	690	805	920	1035
190	75	95	115	145	175	205	250	310	415	520	620	725	830	930
200	70	85	100	130	160	185	225	280	375	465	560	650	745	840
210	60	75	90	115	140	170	200	250	335	420	505	590	670	755
220	55	70	80	105	125	150	180	225	300	375	450	525	600	675
230	50	60	75	95	115	135	160	200	265	335	400	465	535	600
240	45	55	65	85	105	120	145	185	245	305	365	425	490	550

STEP 5

Determine Pulley Resultant Load

Determine pulley resultant load from belt tensions and arc of contact.

Resultant load is calculated by:

$$R = 2 \times T_2 \times \sin(\infty/2) \text{ (non-drive)*}$$

$$R = (T_1 + T_2) \times \sin(\infty/2) \text{ (drive)*}$$

Where: R = Pulley resultant load

T₁ = Tight side tension

T₂ = Slack side tension

∞ = Arc of contact

***Note:** If non-drive pulley is on tight side of belt, substitute T₁ for T₂. Wing pulleys should not be used as drive pulleys.

STEP 6

Determine Shaft Diameter

Determine shaft diameter from Table 3. Go down the proper pulley face width column and across from the bearing center minus face value (if the correct value is not listed, interpolate or use the next higher value) until a load rating greater than the resultant load calculated in Step 5 is found. The proper shaft diameter is then read from the vertical shaft diameter column.

TABLE 2

Use in **STEP 4** to determine minimum pulley diameter for *Wing Pulleys only*
MAXIMUM BELT TENSION
(Pounds Per Inch of Belt Width)

Dia.	Pounds Per Inch	Dia.	Pounds Per Inch
8"	80#	18"	180#
10"	100#	20"	200#
12"	120#	24"	240#
14"	140#	30"	280#
16"	160#	36"	350#



SELECTION



Drum and Wing Pulleys

**TABLE 133 – Use in Step 6 to determine shaft diameter
LOAD RATINGS (POUNDS) FOR PULLEY AND SHAFT COMBINATIONS**

SHAFT DIAMETER (Inches)	(L) BEARING CENTERS MINUS FACE	PULLEY FACE WIDTH (inches)														
		12	14	16	18	20	22	26	32	38	44	51	57	63	66	
1-3/16	2	1000	920	780	670	590	530	440	350	290	240	210	180	170	160	
	6	570	520	440	380	340	300	250	700	160	140	170	100	94	90	
	10	400	370	310	270	230	210	170	140	110	96	82	73	66	63	
	14	300	280	240	200	180	160	130	110	87	74	63	56	51	48	
1-7/16	3	1500	1500	1400	1200	1100	950	790	620	510	440	370	330	300	290	
	6	1000	1000	950	820	720	640	530	420	350	300	250	220	200	190	
	10	700	700	660	570	500	450	370	290	240	210	180	160	140	130	
	14	540	540	510	440	390	350	290	230	190	160	140	120	110	100	
1-11/16	3	2400	2400	2400	2300	2000	1800	1500	1200	980	830	710	630	570	540	
	6	1600	1600	1600	1600	1400	1200	1000	800	660	560	480	430	380	370	
	10	1100	1100	1100	1100	960	850	700	560	460	390	340	300	270	260	
	16	780	780	780	750	660	590	490	380	320	270	230	210	180	180	
1-15/16	3	3700	3700	3700	3700	3500	3100	2600	2100	1700	1400	1200	1100	990	940	
	6	2500	2500	2500	2500	2400	2100	1800	1400	1100	980	840	740	670	640	
	10	1700	1700	1700	1700	1700	1500	1200	970	800	680	580	520	470	420	
	16	1200	1200	1200	1200	1100	1000	840	670	550	470	400	360	320	310	
2-3/16	3	5300	5300	5300	5300	5300	5100	4200	3300	2800	2400	2000	1800	1600	1500	
	8	2900	2900	2900	2900	2900	2800	2300	1900	1500	1300	1100	990	890	850	
	12	2200	2200	2200	2200	2200	2100	1700	1400	1100	970	820	730	660	630	
	18	1500	1500	1500	1500	1500	1500	1200	980	810	690	590	530	470	450	
2-7/16	4	6300	6300	6300	6300	6300	6300	5600	4400	3700	3100	2700	2400	2100	2000	
	8	4000	4000	4000	4000	4000	4000	3600	2900	2400	2000	1700	1500	1400	1300	
	12	3000	3000	3000	3000	3000	3000	2700	2100	1700	1500	1300	1100	1000	910	
	18	2100	2100	2100	2100	2100	2100	1900	1500	1300	1100	910	810	130	690	
2-11/16	4	8100	8100	8100	8100	8100	8100	8100	6400	5300	4500	3800	3400	3100	2900	
	8	5300	5300	5300	5300	5300	5300	5300	4200	3400	2900	2500	2200	2000	1900	
	12	3900	3900	3900	3900	3900	3900	3900	3100	2600	2200	1900	1600	1500	1400	
	18	2800	2800	2800	2800	2800	2800	2800	2200	1800	1600	1300	1200	1100	1000	
2-15/16	4	10600	10600	10600	10600	10600	10600	10600	9100	7500	6400	5500	4900	4400	4200	
	8	6900	6900	6900	6900	6900	6900	6900	6000	4900	4200	3600	3200	2900	4700	
	14	4600	4600	4600	4600	4600	4600	4600	3900	3200	2800	2300	2100	1900	1800	
	20	3400	3400	3400	3400	3400	3400	3400	2900	2400	2000	1700	1600	1400	1300	
3-7/16	6	11600	11600	11600	11600	11600	11600	11600	11600	10100	8500	7200	6400	5700	5500	
	10	8500	8500	8500	8500	8500	8500	8500	8500	7400	6300	5300	4700	4200	4000	
	14	6700	6700	6700	6700	6700	6700	6700	6700	5800	4900	4200	3700	3300	3200	
	20	5100	5100	5100	5100	5100	5100	5100	5100	4400	3800	3200	2800	2500	2400	
3-15/16	6	16700	16700	16700	16700	16700	16700	16700	16700	16700	14200	12000	10600	9500	9000	
	10	12400	12400	12400	12400	12400	12400	12400	12400	12400	10600	8900	7900	7100	6700	
	14	9800	9800	9800	9800	9800	9800	9800	9800	9800	8400	7100	6300	5600	5300	
	20	7500	7500	7500	7500	7500	7500	7500	7500	7500	6400	5400	4800	4300	4100	
4-7/16	8	19600	19600	19600	19600	19600	19600	19600	19600	19600	19100	16100	14200	12700	12100	
	12	15300	15300	15300	15300	15300	15300	15300	15300	15300	14800	12500	11100	9900	9400	
	16	12500	12500	12500	12500	12500	12500	12500	12500	12500	12100	10300	9100	8100	7700	
	22	9800	9800	9800	9800	9800	9800	9800	9800	9800	9500	8100	7100	6400	6000	
4-15/16	8		25200	25200	25200	25200	25200	25200	25200	25200	25200	23600	20800	18500	17600	
	12		19900	19900	19900	19900	19900	19900	19900	19900	19900	19900	18600	16400	14600	13900
	16		16400	16400	16400	16400	16400	16400	16400	16400	16400	16400	15400	13500	12100	11500
	22		13000	13000	13000	13000	13000	13000	13000	13000	13000	13000	12200	10700	9600	9100
5-7/16	10			26600	26600	26600	26600	26600	26600	26600	26600	26600	25100	22300	21100	
	14			22000	22000	22000	20000	22000	22000	22000	22000	22000	22000	20700	18400	17500
	18			18700	18700	18700	18700	18700	18700	18700	18700	18700	18700	17700	15700	14900
	24			15300	15300	15300	15300	15300	15300	15300	15300	15300	15300	14500	12800	12200

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

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Drum and Wing Pulleys

**TABLE 3 (cont'd) – Use in Step 6 to determine shaft diameter
LOAD RATINGS (POUNDS) FOR PULLEY AND SHAFT COMBINATIONS**

SHAFT DIAMETER (Inches)	(L) BEARING CENTERS MINUS FACE	PULLEY FACE WIDTH (inches)													
		12	14	16	18	20	22	26	32	38	44	51	57	63	66
6	10			35700	35700	35700	35700	35700	35700	35700	35700	35700	35700	33100	31300
	14			29500	29500	29500	29500	29500	29500	29500	29500	29500	29500	27300	25900
	18			25100	25100	25100	25100	25100	25100	25100	25100	25100	25100	23300	22100
	24			20600	20600	20600	20600	20600	20600	20600	20600	20600	20600	19000	19000
6-1/2	12			39200	39200	39200	39200	39200	39200	39200	39200	39200	39200	39200	38000
	16			33200	33200	33200	33200	33200	33200	33200	33200	33200	33200	33200	32100
	20			28800	28800	28800	28800	28800	28800	28800	28800	28800	28800	28800	27800
	26			24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	24000	23200
7	12			49000	49000	49000	49000	49000	49000	49000	49000	49000	49000	49000	49000
	16			41400	41400	41400	41400	41400	41400	41400	41400	41400	41400	41400	41400
	20			35900	35900	35900	35900	35900	35900	35900	35900	35900	35900	35900	35900
	26			29900	29900	20000	29900	29900	29900	29900	29900	29900	29900	29900	29900
7-1/2	14			54100	54100	54100	54100	54100	54100	54100	54100	54100	54100	54100	54100
	18			46500	46500	46500	48500	48500	46500	46500	46500	46500	46500	46500	46500
	22			40800	40800	40800	40800	40800	40800	40800	40800	40800	40800	40800	40800
	28			34400	34400	34400	34400	34400	34400	34400	34400	34400	34400	34400	34400
8	14			65700	65700	65700	65700	65700	65700	65700	65700	65700	65700	65700	65700
	18			56400	56400	56400	56400	56400	56400	56400	56400	56400	56400	56400	56400
	22			49500	49500	49500	49500	49500	49500	49500	49500	49500	49500	49500	49500
	28			41800	41800	41800	41800	41800	41800	41800	41800	41800	41800	41800	41800
8-1/2	16					67700	67700	67700	67700	67700	67700	67700	67700	67700	67700
	20					59400	59400	59400	59400	59400	59400	59400	59400	59400	59400
	24					52900	52900	52900	52900	52900	52900	52900	52900	52900	52900
	30					45400	45400	45400	45400	45400	45400	45400	45400	45400	45400
9	16					80400	80400	80400	80400	80400	80400	80400	80400	80400	80400
	20					70500	70500	70500	70500	70500	70500	70500	70500	70500	70500
	26					59500	59500	59500	59500	59500	59500	59500	59500	59500	59500
	32					51500	51500	51500	51500	51500	51500	51500	51500	51500	51500
9-1/2	16					94500	94500	94500	94500	94500	94500	94500	94500	94500	94500
	22					78100	78100	78100	78100	78100	78100	78100	78100	78100	78100
	28					66500	66500	66500	66500	66500	66500	66500	66500	66500	66500
	34					57900	57900	57900	57900	57900	57900	57900	57900	57900	57900
10	16					110000	110000	110000	110000	110000	110000	110000	110000	110000	110000
	22					91100	91100	91100	91100	91100	91100	91100	91100	91100	91100
	28					77600	77600	77600	77600	77600	77600	77600	77600	77600	77600
	34					64800	64800	64800	64800	64800	64800	64800	64800	64800	64800



SELECTION



Drum and Wing Pulleys

STEP 7

Determine Drive Pulley Shaft Diameter

(For drive pulleys only) The shaft diameter determined in Step 6 must be checked for torque capacity. The shaft diameter required for torque is determined from:

$$D_T = 3 \sqrt{\frac{16}{\pi} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}{\pi \times S}$$

Where: D_T = Required shaft diameter from torque

$$\pi = 3.1416$$

$$S = 8000 \text{ psi for } 1042-1045 \text{ shafting}$$

$$(10,000 \text{ for } 4140)$$

$$K_B = 1.5^*$$

A = Moment arm (from Table 4)

R = Resultant load from Step 5

T_1 = Tight side tension

T_2 = Slack side tension

D = Pulley Diameter

*Note: Use $K_B = 2.5$ for overhung load drive (chain, torque arm, etc.)

If D_T is greater than the shaft diameter from Step 6, round D_T up to the next standard shaft diameter and use that value. If D_T is less than the shaft diameter from Step 6, use the diameter selected from Step 6.

Table 4 – A-Values

Shaft Dia. (inches)	A	Shaft Dia. (inches)	A
1 to 2-7/16	N+1-5/8	4-15/16	N+3-1/4
2-11/16 to 2-15/16	N+1-3/4	5-7/16 to 6	N+4-1/2
3-7/16	N+2-1/2	6-1/2 to 7	N+5
3-15/16	N+2-3/4	7-1/2 to 8	N+5-1/4
4-7/16	N+3	8-1/2 to 10	N+6-1/4

N = BCMF ÷ 2

STEP 8

Compare Pulley Diameter

Compare the pulley diameter, face width combination selected with the standard drum pulley listing on pages PT13-15 - PT13-21 or the standard wing pulley listing on pages PT13-22 - PT13-27 to insure the selected combination is available. If the selected combination is not available increase shaft diameter or pulley diameter until a standard pulley is listed.

Example 1 (Drive Pulley)

Given: 36" belt width 3600 lb. T_1
52" bearing centers 1600 lb. T_2
210° arc of contact

Step 1

Determine required face width from:

$$F = BW + 2" \quad F = 36 + 2 = 38$$

Step 2

Determine bearing center minus face dimension from:

$$BCMF = BC - F \quad BCMF = 52 - 38 = 14"$$

Step 3

Determine pounds per inch of face width from:

$$PIW = T_1 \div BW \quad PIW = 3600 \div 36 = 100 \text{ PIW}$$

Step 4

Determine minimum pulley diameter using Table 1. Since $PIW = 100$ and arc of contact is 210°, the minimum pulley diameter is 14".

Step 5

Determine resultant load from:

$$R = (T_1 + T_2) \times \sin(\infty/2)$$

$$R = (3600 + 1600) \times \sin(210/2) = 5023 \text{ lb.}$$

Step 6

Determine shaft diameter using Table 3. Using a face width of 38" bearing center minus face dimension of 14" and a pulley resultant load of 5023 lbs., read down the 38" face width column until the load rating at BCMF = 14" exceeds 5023 lb. The first value to exceed 5023 lbs. is 5800 lbs. at a shaft diameter of 3-7/16.

Step 7

Check torque capacity of selected shaft using:

$$D_T = 3 \sqrt{\frac{16}{\pi} \times \sqrt{(K_B \times A \times R \div 2)^2 + [(T_1 - T_2) \times D \div 2]^2}}{\pi \times S}$$

$$D_T = 3 \sqrt{\frac{16}{3.1416 \times 8000} \times \sqrt{(1.5 \times 9.5 \times 5023 \div 2)^2 + [(3600 - 1600) \times D \div 2]^2}}$$

$$D_T = 2.86"$$

The 3-7/16 shaft diameter selected in Step 6 is greater than 2.86; therefore 3-7/16 is the final shaft diameter selection.

Step 8

Checking the standard pulley listing on page PT13-18, a 14 x 38 pulley with 3-7/16 shaft (HE35 Hub) is a standard pulley.

Example 2 (Non-drive wing pulley).

Given: 54" belt width 1805 arc of contact
71 bearing centers 8600 lb. T_2

Step 1

Determine required face width from:

$$F = BW + 3, \quad F = 54 + 3 = 57,$$

Step 2

Determine bearing center minus face dimension from:

$$BCMF = BC - F \quad BCMF = 71 - 57 = 14,$$

Step 3

Determine pounds per inch of face width from:

$$PIW = T_2 \div BW \quad PIW = 8600 \div 54 = 159 \text{ PIW}$$

Step 4

Determine minimum pulley diameter using Table 2. Since $PIW = 159$ the minimum pulley diameter is 16".

Step 5

Determine resultant load from:

$$R = 2 \times T_2 \times \sin(\infty/2)$$

$$R = 2 \times 8600 \times \sin(180/2) = 17,200 \text{ lbs.}$$

Step 6

Determine shaft diameter using Table 3. Using a face width of 57", bearing center minus face dimension of 14" and a pulley resultant load of 17,200 lbs., read down the 57" face width column until the load rating at BCMF = 14" exceeds 17,200 lbs. The first value to exceed 17,200 lbs. is 20,700 lbs. at a shaft diameter of 5-7/16.

Step 7

Checking the standard wing pulley listing on page PT13-24, a 16 x 57 wing pulley with 5-7/16 shaft (HE60 hub) is a standard pulley.



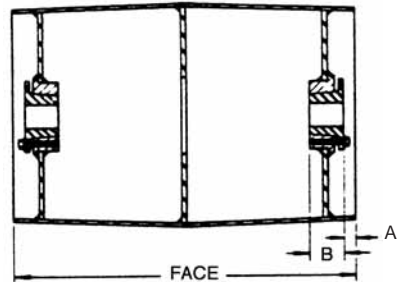
HE Heavy Duty Drum Pulleys



- HE mounting system designed specifically for conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- Flange mount design
- Designed to CEMA specifications
- Standard crown face or straight face available
- One piece die formed through 30°
- Diameters to 60", face widths exceeding 78"
- Available from stock

HE Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
HE25	3/4	2-1/4	HE25	2-1/2	360
HE30	3/4	2-3/4	HE30	3	710
HE35	3/4	3	HE35	3-1/2	1080
HE40	3/4	3-1/2	HE40	4	1680
HE45	3/4	4	HE45	4-1/2	1680
HE50	3/4	4-1/2	HE50	5	2400
HE60	1	5-1/4	HE60	6	4200
HE70	1	6-1/4	HE70	7	6000
HE80	1-1/4	7	HE80	8	6000
HE100	1-1/4	9	HE100	10	7200
HE120	1-1/4	10	HE120	12	7200





SELECTION



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

HE Heavy Duty Drum Pulley Part Numbers

Dia.	Hub	FACE WIDTH															
		12	14	16	18	20	22	24	26	30	32	36	38	40	44	51	
6	HE25	206001	206003		203500	203501	206009	203502	206012	203503	203504	203505	206014			203511	
8	HE25	206020	206022		206024	203516			206029	203519	206031		206032		206033	206034	
10	HE25	206035			206039	206041	206042	203530	206044		206046		206048		206049	206052	
	HE30								203533		203538		203543		206051	206050	
12	HE25	209716	206056	206057	206058	206060	209718	203561	206063	209720	206066		206069		206072	206074	
	HE30								206064		206067		206070	209722	206073	203587	
	HE35								203565		203571		203577		203581	203588	
14	HE25	203594	209726			206080			206081	209730	206083		206084		203633	203642	
	HE30					209727			206082		203620		206085		203907	206087	
	HE35												203629		203634	203643	
	HE40	209725											203630			203644	
16	HE25	203651			206091	206092	209736		206095	209749	206097		206099		203685	203695	
	HE30		209734			209775		209737	206096		206098		206100		206102	203696	
	HE35								203666		203674		203682		203686	206103	
	HE40										203675		203683		203687	206104	
18	HE25					206110		209746	206111		206114		206116			203745	203756
	HE30					209745			206112		206115		206117			206121	203757
	HE35								206113		203729		206118	209751	203740	203746	206120
	HE40										203730		203740	206119	203746	206120	
	HE45												203741		209752	203758	
20	HE25	209756				206125			206126		206089		206131			206134	203807
	HE30					209757		209758	206127		206129		206132		206135	203808	
	HE35								206128		206130		206133		206136	203809	
	HE40								209759		203790		203797		206136	203809	
24	HE30	203815							206140		206142		206145		206148	203848	
	HE35								206141		206143		206146		206149	203849	
	HE40								203908		206144		206147		203844	203850	
	HE45										203836		203841		206150	206151	
	HE50												203343		209742	209776	
30	HE35												203879				
	HE40			209780									203880		203888	209741	

Note: All stock pulleys are crown face.

HE Heavy Duty Lagged Drum Pulley Part Numbers

Dia.	Hub	FACE WIDTH					
		Lagging	26	32	38	44	51
12	HE30	3/8 HBG	206105	206106	209907	209909	209910
14	HE25	3/8 HBG	207954	207950	207951	207205	207952
16	HE25	3/8 HBG	207206		207209		
	HE30	3/8 HBG	207207	207208	207210	209922	209923
	HE35	3/8 HBG	206054	206075	206076		
18	HE30	3/8 HBG	207211	207212	207213		
	HE35	3/8 HBG	206107	206077	206108	209927	
20	HE30	3/8 HBG		207214	209934		
	HE40	3/8 HBG	206078	206079	206088		
24	HE35	3/8 HBG	207977	209938	209939		
	HE40	3/8 HBG	207978	207215	207216	209940	209941
	HE45	3/8 HBG	206017	206018	206019	206053	

FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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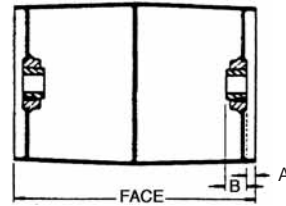
TAPER-LOCK Heavy Duty Drum Pulleys



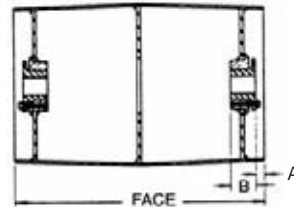
- Flush mount, compact design mounting system
- Designed to CEMA specifications
- Standard crown face or straight face available
- One piece die formed through 30"
- Diameters to 60", face widths exceeding 78"
- Available from stock

TAPER-LOCK Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
K25	1	1-3/4	2517	2-1/2	430
F25	1	1-3/4	2517	2-1/2	430
F30	1	2	3020	3	800
K35	1	3-1/2	3535	3-1/2	1000
K40	1	4	4040	4	1700
K45	1	4-1/2	4545	4-1/2	2450
K50	1	5	5050	5	3100
K60	2-1/4	5	6050	6	7820
K70	2-1/4	6	7060	7	7820
K80	2-1/4	6-1/2	8065	8	7820
K100	2-1/4	8-1/2	10085	10	13700
K120	2-1/4	10	120100	12	13700



F25 and F30



K25 through K120

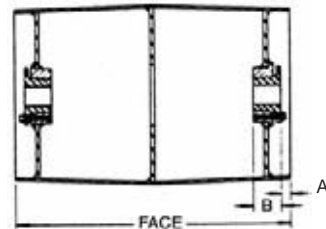
QD Heavy Duty Drum Pulleys



- Flange mount bushing system
- Designed to CEMA specifications
- Standard crown face or straight face available
- One piece die formed through 30"
- Diameters to 60", face widths exceeding 78"
- Available from stock

QD Dimensions

QD Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
SF	7/8	2-1/16	SF	2-7/16	360
E	1	2-3/4	E	2-15/16	720
F	1-1/16	3-3/4	F	3-7/16	900
JS	1-1/8	3-3/8	J	3-15/16	1620
MS	1-1/4	4-13/16	M	4-7/16	2700
NS	1-5/16	6	N	4-15/16	3600
PS	1-3/8	6-1/2	P	6	5400
WS	1-9/16	7-1/4	W	8	7200
SS	1-5/8	8-3/4	S	10	9000
ZS	1-9/16	8-3/4	Z	12	7200





SELECTION



Heavy Duty Drum Pulley Average Weights – HE, TAPER-LOCK, QD

Dia.	Max. Bore	Face Width										
		12	14	16	18	20	22	24	26	30	32	36
6	2.5	27	29	31	33	35	37	39	41	45	47	52
8	2.5	34	37	40	42	45	48	51	53	59	62	69
10	2.5	43	46	50	53	56	60	63	67	74	77	88
	3	49	53	56	60	63	67	70	74	80	84	94
12	2.5	52	56	60	64	69	73	77	81	89	93	107
	3	60	64	68	72	77	81	85	89	97	102	115
	3.5	75	79	83	87	92	96	100	104	112	116	129
14	2.5	62	67	72	77	82	87	91	96	106	111	128
	3	62	67	72	77	82	86	91	96	106	111	128
	3.5	85	90	95	100	105	110	114	119	129	134	150
	4	95	100	105	110	114	119	124	129	139	144	160
16	2.5	67	72	78	83	89	94	100	105	117	122	144
	3	72	77	83	88	94	99	105	111	122	127	148
	3.5	90	96	101	107	112	118	124	129	140	146	166
	4	106	112	117	123	129	134	140	145	156	162	182
	4.5	...	126	131	137	142	148	153	159	170	176	195
18	2.5	77	83	89	96	102	108	114	121	133	139	165
	3	90	97	103	109	115	122	128	134	147	153	178
	3.5	100	107	113	119	125	132	138	144	157	163	188
	4	123	131	139	148	156	164	173	181	198	206	235
	4.5	...	145	154	162	170	179	187	193	212	220	248
20	5	...	...	192	201	209	217	226	234	251	259	286
	2.5	101	111	120	129	138	148	157	166	185	194	229
	3	117	127	136	145	154	164	173	182	201	210	245
	3.5	125	134	144	153	162	171	181	190	208	218	252
	4	135	144	154	163	172	181	191	200	218	228	261
	4.5	...	159	168	177	186	196	205	214	233	242	275
24	5	...	...	207	216	225	234	244	253	271	281	313
	3	149	160	171	183	194	205	216	227	249	260	307
	3.5	167	179	190	201	212	223	234	245	268	279	325
	4	177	188	199	211	222	233	244	255	277	288	334
	4.5	...	202	213	224	235	247	258	269	291	302	347
	5	...	...	274	287	301	315	329	343	371	385	434
30	6	...	...	...	386	403	419	436	453	486	502	561
	3	204	218	232	246	260	274	288	301	329	343	409
	3.5	222	236	250	264	278	292	306	320	348	362	427
	4	253	270	287	305	344	340	357	374	409	426	498
	4.5	...	284	301	319	336	353	371	388	423	440	512
	5	...	...	340	357	374	392	409	427	461	479	550
	6	...	...	...	462	483	504	524	545	587	608	693
	7	...	...	...	536	557	578	598	619	703	724	765
8	...	...	...	...	613	634	655	676	758	779	820	

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1–1993. They are not to be used with steel cable belts or other high modulus belts.

FEATURES/BENEFITS PAGE PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	MODIFICATIONS/ACCESSORIES PAGE PT13-35	ENGINEERING/TECHNICAL PAGE PT13-43
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Heavy Duty Drum Pulley Average Weights – HE, TAPER-LOCK, QD

Face Width												
38	40	44	46	51	54	57	60	63	66	72	75	78
54	56	60	62	67	71	74	77	80	83	90	93	96
72	75	80	83	90	96	100	104	108	112	122	127	131
91	94	101	105	113	122	127	132	138	143	157	162	167
97	101	108	111	120	128	133	138	143	149	162	167	172
111	116	124	128	138	150	156	163	169	175	193	199	205
119	123	135	139	149	160	167	173	179	185	203	209	215
134	138	146	150	161	171	178	184	190	196	213	220	226
133	138	148	153	165	180	187	194	202	209	231	239	246
133	137	162	166	179	193	200	208	215	222	244	251	259
155	160	170	175	187	201	208	216	223	230	252	259	266
164	169	179	184	196	210	217	224	231	239	260	267	274
149	155	166	171	185	204	212	221	229	237	264	273	281
154	159	190	196	210	228	236	245	253	261	288	296	305
172	177	189	194	214	232	241	249	257	266	292	300	308
187	193	204	210	224	241	249	257	266	274	300	308	316
201	206	217	223	237	254	262	270	279	287	312	320	329
172	178	190	197	212	235	244	254	263	273	305	314	323
185	191	212	218	234	256	266	275	284	294	325	335	334
194	200	213	219	243	265	275	284	293	303	334	343	353
243	251	268	276	297	321	334	346	359	371	408	421	433
256	265	281	290	311	334	347	359	372	384	421	433	446
295	303	320	350	371	394	406	419	431	444	480	492	504
238	248	266	275	299	329	343	357	371	385	429	443	457
254	263	282	291	314	344	358	372	386	400	444	457	471
261	270	289	298	321	351	365	379	393	406	450	464	478
271	280	298	308	331	360	374	388	402	415	458	472	486
284	294	312	321	344	373	387	401	415	429	471	485	499
323	332	350	360	383	411	425	439	452	466	508	522	536
318	329	351	362	390	431	447	464	481	497	555	571	588
336	347	369	380	408	448	465	482	498	515	572	589	605
345	356	378	389	417	457	473	490	507	524	580	597	613
358	369	391	403	430	470	486	503	520	536	592	609	626
448	462	490	504	538	581	602	623	643	664	728	749	769
577	594	627	644	685	735	760	785	810	834	909	934	959
423	437	465	479	514	573	594	615	636	657	737	757	778
441	455	483	497	532	590	611	632	653	674	754	775	796
516	533	568	585	629	692	718	744	770	796	886	912	938
529	547	581	599	642	705	731	757	783	809	898	924	950
567	584	619	637	680	742	768	794	820	847	935	961	987
714	735	777	797	849	925	956	987	1018	1049	1156	1187	1218
786	807	849	869	921	995	1026	1057	1088	1120	1182	1213	1287
841	862	904	925	977	1049	1080	1111	1142	1174	1236	1267	1339



SELECTION



Heavy Duty Drum Pulley Average Weights – HE, TAPER-LOCK, QD

Dia.	Max. Bore	Face Width										
		12	14	16	18	20	22	24	26	30	32	36
36	3	292	313	334	355	376	397	417	438	480	501	617
	.5	310	331	352	373	394	415	436	457	498	519	635
	4	320	341	362	383	404	425	445	466	508	529	644
	4.5	...	355	376	397	417	438	459	480	522	543	657
	5	...	...	447	472	497	522	547	572	622	647	769
	6	...	...	...	546	571	596	621	646	697	722	839
	7	...	...	...	620	645	670	695	720	836	861	911
	8	...	...	...	...	702	727	752	777	891	916	966
	10	...	...	...	...	...	...	1221	1254	1321	1423	1490
42	3.5	386	411	435	459	484	508	533	557	606	630	780
	4	475	504	534	563	592	621	651	680	738	768	926
	4.5	...	468	497	527	556	585	614	644	702	731	889
	5	...	...	536	565	594	623	653	682	740	770	927
	6	...	...	...	686	716	745	774	803	862	891	1044
	7	...	...	...	846	885	924	963	1002	1195	1234	1312
	8	...	...	...	...	941	980	1018	1057	1249	1288	1366
	10	...	...	...	...	...	...	1398	1437	1515	1657	1735
48	4	579	613	646	680	713	747	780	814	881	914	1113
	4.5	...	626	660	693	727	760	794	827	894	928	1126
	5	...	...	698	731	765	798	832	865	932	966	1163
	6	...	...	...	803	837	870	904	937	1004	1038	1231
	7	...	...	...	976	1020	1065	1109	1154	1398	1442	1531
	8	...	...	...	...	1076	1120	1165	1209	1452	1497	1586
	10	...	...	...	...	...	...	1592	1636	1725	1913	2002
	4.5	...	745	783	821	859	896	934	972	1047	1085	1327
54	5	...	...	821	859	897	934	972	1010	1085	1123	1364
	6	...	...	...	1124	1174	1124	1274	1324	1425	1475	1777
	7	...	...	...	...	1246	1296	1346	1396	1697	1747	1847
	8	...	...	...	...	1301	1351	1401	1451	1750	1800	1901
	10	...	...	...	...	...	...	1803	1853	1953	2191	2291
60	4.5	...	1283	1338	1394	1450	1506	1561	1617	1729	1784	2155
	5	...	...	1375	1431	1487	1543	1598	1654	1765	1821	2191
	6	...	...	...	1497	1552	1608	1664	1720	1831	1887	2251
	7	...	...	...	1567	1622	1678	1734	1790	2151	2207	2319
	8	...	...	...	...	1676	1732	1788	1844	2204	2259	2371
	10	...	...	...	...	...	...	2030	2086	2198	2491	2602

- Crown face pulleys will be provided unless straight face is specified
- These pulleys are designed to meet the CEMA Pulley Specification B105.1–1993. They are not to be used with steel cable belts or other high modulus belts.



Heavy Duty Drum Pulley Average Weights – HE, TAPER-LOCK, QD

Face Width												
38	40	44	46	51	54	57	60	63	66	72	75	78
638	659	701	721	774	879	910	942	973	1004	1141	1173	1204
656	676	718	739	791	896	928	959	990	1022	1158	1189	1221
665	685	727	748	800	905	936	967	999	1030	1165	1197	1228
678	699	740	797	850	953	984	1016	1047	1078	1213	1245	1276
794	819	869	894	957	1066	1103	1141	1178	1216	1362	1400	1437
864	889	939	964	1206	1131	1169	1206	1244	1281	1423	1461	1499
936	961	1011	1036	1099	1201	1239	1276	1314	1351	1427	1464	1567
991	1016	1066	1091	1154	1255	1293	1330	1368	1405	1480	1518	1620
1523	1556	1623	1656	1739	1858	1908	1958	2008	2058	2157	2207	2326
805	829	878	902	1014	1151	1188	1225	1261	1298	1472	1509	1545
956	985	1043	1073	1046	1290	1334	1377	1421	1465	1653	1697	1741
919	946	1006	1085	1158	1302	1346	1390	1433	1477	1665	1708	1752
956	985	1044	1073	1146	1289	1333	1377	1421	1464	1651	1696	1739
1073	1103	1161	1190	1263	1402	1446	1490	1533	1577	1760	1803	1847
1351	1389	1467	1506	1603	1777	1836	1894	1952	2011	2127	2186	2360
1405	1444	1521	1560	1658	1830	1888	1947	2005	2063	2180	2238	2411
1773	1812	1890	1929	2026	2188	2246	2304	2362	2421	2538	2596	2758
1146	1180	1247	1280	1364	1546	1596	1646	1696	1747	1979	2029	2079
1159	1193	1259	1293	1377	1558	1608	1658	1709	1759	1990	2040	2091
1196	1230	1297	1330	1414	1595	1645	1695	1745	1795	2026	2076	2126
1264	1298	1364	1398	1462	1658	1708	1758	1808	1859	2085	2135	2186
1576	1620	1709	1754	1865	2087	2154	2221	2287	2354	2468	2554	2777
1630	1675	1764	1808	1919	2140	2207	2273	2340	2407	2540	2607	2828
2046	2091	2180	2224	2335	2545	2612	2679	2745	2812	2946	3012	3222
1365	1402	1478	1515	1610	1833	1890	1946	2003	2059	2339	2396	2452
1402	1440	1515	1553	1647	1870	1926	1983	2039	2096	2375	2431	2468
1827	1878	1978	2028	2153	2431	2506	2581	2656	2732	3084	3160	3235
1897	1947	2048	2098	2223	2498	2573	2649	2724	2799	2949	3024	3350
1951	2001	2101	2151	2277	2550	2625	2701	2776	2851	3001	3077	3550
2341	2391	2492	2542	2667	2930	3005	3080	3155	3231	3381	3456	3719
2210	2266	2378	2433	2573	2915	2999	3082	3166	3249	3675	3759	3843
2246	2302	2414	2469	2609	2950	3034	3117	3201	3285	3710	3793	3877
2306	2362	2474	2529	2669	3005	3089	3172	3256	3339	3759	3843	3926
2374	2430	2541	2597	2737	3070	3154	3238	3321	3405	3572	3656	3989
2427	2482	2594	2650	2789	3121	3205	3288	3372	3456	3623	3707	4039
2658	2714	2825	2881	3021	3342	3426	3509	3593	3676	3844	3927	4249



SELECTION/DIMENSIONS



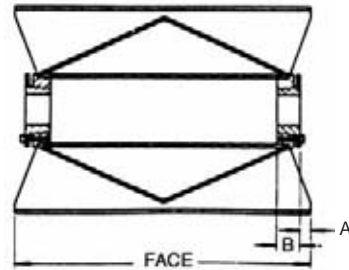
HE Heavy Duty Wing Pulleys



- HE mounting system designed specifically for conveyor pulleys
- Most dependable mounting system for conveyor pulleys
- Designed to CEMA specifications
- Standard crown face or straight face available
- Diameters to 60", face widths exceeding 78"
- Available with replaceable WING-LAG
- Available from stock

HE Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
HE25	1	2-1/4	HE25	2-1/2	360
HE30	3/4	2-3/4	HE30	3	720
HE35	3/4	3	HE35	3-1/2	1080
HE40	3/4	3-1/2	HE40	4	1680
HE45	3/4	4	HE45	4-1/2	1680
HE50	3/4	4-1/2	HE50	5	2400
HE60	1	5-1/4	HE60	6	4200
HE70	1	6-1/4	HE70	7	6000
HE80	1-1/4	7	HE80	8	6000



HE Heavy Duty Wing Pulley Part Numbers

Dia.	Hub	FACE WIDTH					
		20	26	32	38	44	51
8	HE25	206196	206199	206213	206214		
10	HE25	206200	206201	206202	206203	206253	207418
	HE30				207566	207567	207568
12	HE25	206205	206206	206207	206208	206210	206264
	HE30		206212	206374	206209	206211	206378
14	HE25		206216	206217	206218	206277	206278
	HE30		206387	206389	206392	206394	206395
16	HE25	206220	206221	206223	206225	206303	
	HE30		206222	206224	206226	206408	206410
	HE35				206227	206480	206482
18	HE25		206231	206233	206235	206320	
	HE30		206232	206234	206236	206423	
	HE35			207402	206485	206487	
	HE40				207569	207570	207571
20	HE25		206240	206242	206334	206336	
	HE30		206241	207407	206243	206437	
	HE35				206495	206497	206499
	HE40				207572	207408	207410
24	HE30		206447	206448	206245		
	HE35				206246	206247	
	HE40				206527	206528	206530

Note: All stock pulleys are crown face.

FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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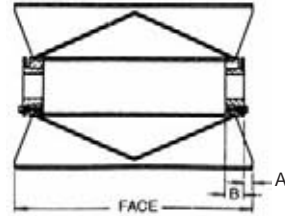
TAPER-LOCK Heavy Duty Wing Pulleys



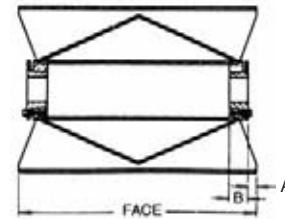
- Flush mount, compact design mounting system
- Designed to CEMA specifications
- Standard crown face or straight face available
- Diameters to 60", face widths exceeding 78"
- Available with replaceable WING-LAG
- Available from stock

TAPER-LOCK Dimensions

Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
W16	1-5/8	1-1/2	1615	1-5/8	175
W25	1-1/2	1-3/4	2517	2-1/2	430
K30	1-3/4	2	3020	3	1800
K35	2-3/4	3-1/2	3535	3-1/2	1000
K40	2-3/4	4	4040	4	1750
K45	2-5/8	4-1/2	4545	4-1/2	2450
K50	3-3/8	5	5050	5	3100
K60	3-3/8	5	6050	6	7820
K70	3-1/4	6	7060	7	7820
K80	3-1/4	6-1/2	8065	8	7820



W16 through K50



K60 through K80

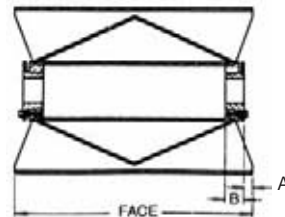
QD Heavy Duty Wing Pulleys



- Flange mount bushing system
- Designed to CEMA specifications
- Standard crown face or straight face available
- Diameters to 60", face widths exceeding 78"
- Available with replaceable WING-LAG
- Available from stock

QD Dimensions

QD Hub	A	B	Bushing	Max. Bore	Screw Torque (in.-lb.)
SF	3/4	2-1/16	SF	2-7/16	360
E	7/8	2-3/4	E	3-7/16	720
F	15/16	3-3/4	F	3-15/16	900
JS	1-1/16	3-3/8	J	4-7/16	1620
MS	1-9/16	4-13/16	M	5-7/16	2700
NS	1-1/4	6	N	6	3600
PS	1	6-1/2	P	7	5400



FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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SELECTION



Heavy Duty Wing Pulley Average Weights – HE, TAPER-LOCK and QD

Dia.	Max. Bore	Face Width									
		12	14	16	18	20	22	24	26	30	32
8	1.63	33	38	44	49	55	61	66	72	83	88
	2.5	37	42	46	51	55	60	64	68	77	82
10	1.63	49	58	66	74	82	90	99	107	123	132
	2.5	52	59	66	73	80	87	94	101	115	122
	3	66	72	79	85	92	98	105	112	125	131
12	1.63	59	69	78	88	97	107	117	126	146	156
	2.5	62	70	78	87	95	103	112	120	137	146
	3	75	83	91	99	107	115	123	131	147	155
	3.5	83	90	98	106	113	121	126	136	151	159
14	1.63	81	94	107	120	133	146	159	172	198	211
	2.5	83	94	106	117	129	140	152	164	187	199
	3	95	106	117	128	139	150	161	173	195	206
	3.5	102	112	123	133	144	155	165	176	197	208
	4	110	121	133	145	157	169	181	193	216	228
16	1.63	94	108	123	137	152	167	182	197	212	243
	2.5	96	108	121	135	148	161	174	188	215	228
	3	108	120	132	145	158	171	184	197	222	235
	3.5	115	126	138	150	163	175	187	199	224	237
	4	122	135	148	162	175	189	202	216	243	257
	4.5	...	148	162	175	189	203	217	231	259	273
18	2.5	109	123	138	152	167	182	197	212	243	258
	3	121	135	149	163	177	192	206	221	250	265
	3.5	128	141	154	168	182	196	210	224	252	266
	4	135	149	164	179	194	209	225	240	271	286
	4.5	...	162	177	192	208	224	239	255	286	302
	5	...	...	210	225	240	256	271	286	317	333
20	2.5	125	141	158	174	191	208	225	242	276	294
	3	137	153	169	185	201	217	234	250	284	301
	3.5	144	159	174	189	205	221	237	253	285	302
	4	151	167	184	200	217	235	252	269	304	322
	4.5	...	180	197	214	231	249	266	284	320	337
	5	...	...	210	225	240	256	271	286	317	333

- Crown face pulleys will be provided unless straight face is specified
- DODGE Heavy Duty wing Pulleys are designed to meet CEMA wing Pulley Specification 501.1–1988. They are not to be used with steel cable or other high modulus belting. They should not be used at belt speeds greater than 450 FPM.



Heavy Duty Wing Pulley Average Weights – HE, TAPER-LOCK and QD

Face Width										
36	38	40	44	46	51	54	57	60	63	66
99	105	110	121	127	141	149	157	166	174	182
91	95	126	139	145	160	169	178	188	197	206
148	157	165	181	190	210	223	235	248	260	272
136	143	177	194	202	224	237	250	263	276	289
145	151	178	194	202	222	234	245	257	269	281
175	185	195	214	224	248	263	278	292	307	322
163	171	206	227	237	262	277	292	308	323	338
171	179	208	227	236	260	274	288	302	316	330
174	182	239	260	271	298	b14	330	346	362	378
238	251	264	291	304	337	357	377	396	416	436
223	234	246	270	282	311	329	347	364	382	400
229	240	252	274	285	314	331	348	365	382	399
229	240	251	272	283	310	326	342	358	374	390
252	264	276	300	312	342	360	378	396	414	432
258	288	304	319	350	365	403	426	451	473	496
255	269	282	310	323	357	378	398	418	439	459
262	275	288	314	327	360	379	399	419	438	458
262	274	287	312	324	355	374	393	412	431	449
285	298	312	340	353	388	409	429	450	471	491
301	315	329	358	372	407	428	449	470	492	513
288	304	319	350	365	403	426	450	473	496	519
294	309	324	354	369	406	428	450	473	495	517
294	309	323	351	366	401	423	444	466	487	509
317	333	348	379	395	434	457	481	504	527	551
334	350	365	397	413	453	476	500	524	548	572
364	379	395	426	441	480	504	527	550	574	597
328	346	363	398	416	459	486	512	538	565	591
334	351	368	402	419	462	487	513	538	564	589
334	351	367	400	416	457	482	507	531	556	581
357	375	392	428	445	489	516	543	569	596	622
373	391	409	445	463	508	535	562	589	616	644
364	379	395	426	441	480	504	527	615	642	669

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering



SELECTION



Heavy Duty Wing Pulley Average Weights – HE, TAPER-LOCK and QD

Dia.	Max. Bore	Face Width									
		12	14	16	18	20	22	24	26	30	32
24	2.5	175	198	220	243	267	290	314	337	385	409
	3	186	208	230	253	275	298	321	344	391	414
	3.5	192	213	234	256	278	300	322	345	390	412
	4	198	220	242	265	288	311	334	358	405	429
	4.5	...	232	254	277	300	324	347	371	419	443
	5	...	...	285	307	330	353	376	399	446	470
30	6	...	...	...	375	397	419	442	464	510	533
	2.5	281	318	354	391	429	466	504	542	618	656
	3	291	326	362	398	434	471	508	545	619	657
	3.5	295	329	363	398	434	469	505	541	614	650
	4	298	333	368	404	440	476	513	549	623	660
	4.5	...	343	378	414	450	486	523	559	633	670
	5	...	...	406	441	476	511	548	582	654	691
	6	...	...	...	503	537	571	605	640	709	744
36	7	...	...	...	559	592	625	658	691	758	792
	8	...	...	...	...	630	663	697	731	800	834
	3	452	510	568	627	686	745	804	864	984	1044
	3.5	453	509	566	623	680	738	795	854	970	1029
	4	453	509	566	623	680	738	796	854	971	1029
	4.5	...	517	547	630	686	744	801	859	975	1033
	5	...	...	596	651	706	762	817	874	987	1044
	6	...	...	...	705	758	812	866	920	1028	1083
36	7	...	...	...	754	805	856	908	959	1064	1117
	8	...	...	...	...	830	881	932	983	1086	1138

- Crown face pulleys will be provided unless straight face is specified
- DODGE Heavy Duty wing Pulleys are designed to meet CEMA wing Pulley Specification 501.1–1988. They are not to be used with steel cable or other high modulus belting. They should not be used at belt speeds greater than 450 FPM.

FEATURES/BENEFITS PAGE PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40
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SELECTION



Heavy Duty Wing Pulley Average Weights – HE, TAPER-LOCK and QD

Face Width										
36	38	40	44	46	51	54	57	60	63	66
457	482	506	555	579	640	676	713	750	787	823
461	485	508	556	579	639	674	710	746	782	818
458	481	504	550	573	630	665	700	734	769	804
477	501	525	573	597	657	694	730	766	803	839
491	515	539	588	612	673	710	746	783	819	856
517	541	564	612	636	695	731	767	803	839	875
579	602	625	671	694	752	787	821	856	891	926
733	772	811	889	928	1025	1084	1142	1201	1260	1319
732	770	808	884	922	1017	1074	1132	1189	1247	1304
723	760	797	871	908	1001	1056	1112	1168	1224	1280
735	773	810	886	923	1018	1075	1132	1189	1246	1303
745	782	820	895	933	1028	1084	1141	1198	1255	1312
764	800	837	911	948	1040	1095	1151	1207	1262	1318
815	850	886	957	993	1082	1136	1190	1243	1297	1351
860	895	929	998	1032	1119	1170	1222	1274	1326	1378
904	939	974	1044	1079	1167	1220	1272	1325	1378	1431
1165	1225	1286	1408	1469	1621	1713	1805	1897	1989	2082
1147	1206	1265	1384	1443	1592	1682	1772	1861	1951	2041
1147	1207	1266	1385	1445	1594	1684	1774	1864	1954	2044
1150	1209	1268	1386	1446	1594	1683	1772	1862	1951	2041
1158	1215	1273	1388	1446	1590	1677	1764	1852	1939	2026
1193	1249	1304	1415	1471	1610	1694	1778	1862	1946	2031
1223	1276	1329	1436	1490	1624	1705	1786	1867	1948	2029
1243	1296	1349	1454	1508	1640	1720	1800	1880	1961	2041

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGES PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40
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SELECTION



Mine Duty Extra Drum & Wing Pulleys



**Mine Duty Extra
Drum Pulley**



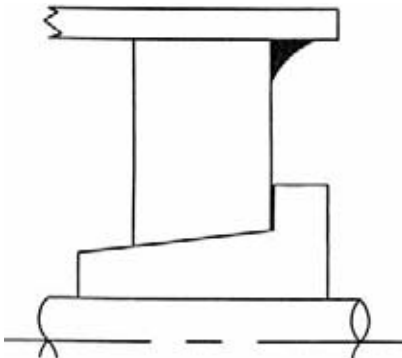
**Mine Duty Extra
Drum Pulley**

- Greater capacity than standard mine duty pulleys
- Rigid duty construction
- Hub is integral to the end disc eliminating stresses at the hub weld
- Standard crown face or straight face available
- HE compression hubs
- Diameters to 60", face widths exceeding 78"
- Balanced design: all components have matched safety factors
- Available in spiral drum and wing pulley construction

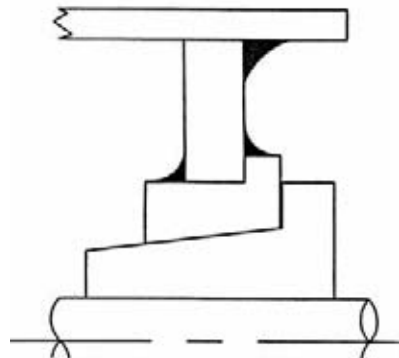


**Mine Duty Extra
Wing Pulley**

Mine Duty Pulley Types



**Mine Duty Extra
(Integral Hub Design)**



**Standard Mine Duty
(Welded Design)**



Spiral Wing Pulleys



Mine Duty Spiral Wing Pulley

- Self cleaning, maximizes belt life
- Diameters to 60", face widths exceeding 78"

Shafting

- Shafting up to 30" diameter, 22' in length
- Precision machined, custom designed
- C1045 turned and polished through 5-15/16
- C1045 hot rolled 6" and above
- 4140 and stainless steel available upon request
- Available from stock for stock CEMA drum and wing pulleys
- Integrate shafting with other DODGE components
- Shafting available for non conveyor component applications



FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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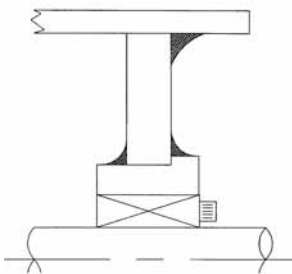
SELECTION



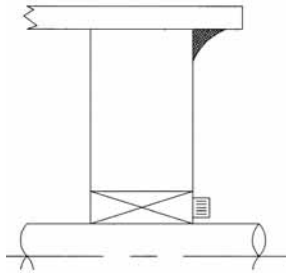
Engineered Class Pulleys



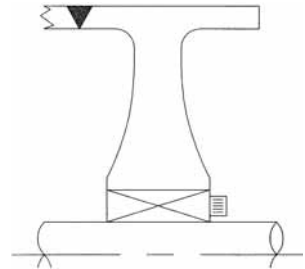
- Maximum strength and reliability
- Two year warranty
- Serialized nameplate
- Custom designed for specific applications
- Bore range exceeding 23"
- Integral hub design utilizing one of the styles shown below.



Welded Design



Integral Hub Design



T-Section Design



Super Pulleys

- Proven leader in design and manufacturing
- 400+ successful super pulley installations
- Dedicated manufacturing facility with complete in-house capabilities
- 60-step quality control process including complete weld inspection and test
- Finite element design
- Complete material certification
- Certified welding
- Technologically advanced lagging material



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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SELECTION



DYNA-SYNC

Dead Shaft Pulleys

- Compact design, used where space is critical
- Shaft diameters exceeding 7-1/2"
- Bearings are integral to the end disc allowing for shaft misalignment

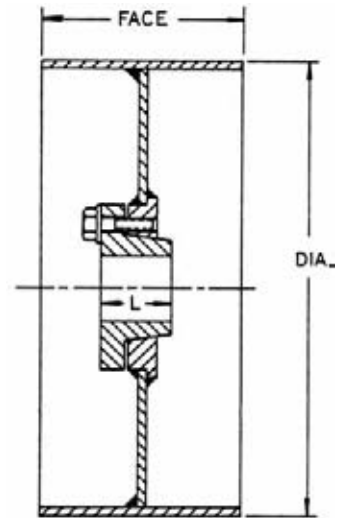


HT Synchronous Belts

Elevator Pulleys



- Heavy, all steel construction
- Economical alternative in narrow belt applications
- Standard crown face or available straight face
- HE compression hubs
- Diameters to 30", face widths to 16"



Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGE PT13-2	MODIFICATIONS/ACCESSORIES PAGE PT13-35	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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Steel Split Pulleys



- Applied in narrow belt applications
- Die formed, riveted construction
- Provides the best possible weight to strength ratio
- Interchangeable bushings for bores from 3/4" to 3-1/2"
- Available from stock
- Max speed = 2500 ft/min
- Pulleys can be lagged with any standard lagging

Bore Size	L BUSHING				Bore Size	G BUSHING			
	P/N	Bushing Keyway	Shaft Keyway	Key Required		P/N	Bushing Keyway	Shaft Keyway	Key Required
3/4	051009	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16	1-3/16	051211	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4
1	051020	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	1-1/4	051212	1/4 x 1/8	1/4 x 1/8	1/4 x 1/8
1-3/16	051016	*	*	*	1-7/16	051215	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
		N BUSHING			1-1/2	051216	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
3/4	051029	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16	1-11/16	051219	3/8 x 1/8	3/8 x 3/16	3/8 x 5/16
1	051033	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	1-15/16	051223	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
1-3/16	051036	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	2	051224	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
1-1/4	051037	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4	2-3/16	051227	1/2 x 1/8	1/2 x 1/4	1/2 x 1/8
1-7/16	051040	3/8 x 1/8	3/8 x 1/16	3/8 x 5/8	2-7/16	051231	5/8 x 3/16	5/8 x 5/16	5/8 x 1/2
1-1/2	051048	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16	2-15/16	051250	3/4 x 3/16	3/4 x 3/8	3/4 x 9/16
1-11/16	051044	*	*	*	3-7/16	051247	*	*	*
		SF BUSHING			* Keyways are not available in these sizes.				
3/4	051059	3/16 x 3/32	3/16 x 3/32	3/16 x 3/16					
1	051063	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4					
1-3/16	051066	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4					
1-1/4	051067	1/4 x 1/8	1/4 x 1/8	1/4 x 1/4					
1-7/16	051070	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16					
1-1/2	051071	3/8 x 1/8	3/8 x 1/16	3/8 x 5/16					
1-15/16	051078	1/2 x 1/8	1/2 x 1/8	1/2 x 3/8					
2-3/16	051082	*	*	*					

Max bore does not use a bushing. Bushing can not be re-bored.



SELECTION/DIMENSIONS



Steel Split Pulleys

Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇	Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇	Face Width *	Part No.	Wt. Δ	Max. Bore	Overall Hub Length	Bushing Symbol ◇
3" Diameter						8" Diameter						12" Diameter					
3	203005	1.3	1-7/16	3	L	2	200017	5.6	2-7/16	2-3/8	SF	3	200050	13	3-1/2	3-5/8	G
4	203006	1.4	1-7/16	3	L	3	200018	7.7	3-1/2	3-5/8	G	4	200051	14	3-1/2	3-5/8	G
5	203007	1.6	1-7/16	3	L	4	200019	8.5	3-1/2	3-5/8	G	5	200052	15	3-1/2	3-5/8	G
6	203008	1.7	1-7/16	3	L	5	200020	9.3	3-1/2	3-5/8	G	6	200053	17	3-1/2	3-5/8	G
4" Diameter						9" Diameter						14" Diameter					
3	203015	1.7	1-15/16	3	N	6	200021	9.9	3-1/2	3-5/8	G	3	200070	14	3-1/2	3-5/8	G
4	203016	2.4	1-15/16	3	N	8	200022	16	3-1/2	7-1/2	2-G	4	200071	16	3-1/2	3-5/8	G
5	203017	3.2	1-15/16	3	N	10	200023	17	3-1/2	9-1/2	2-G	5	200072	18	3-1/2	3-5/8	G
6	203018	5.6	1-15/16	3	N	12	200024	19	3-1/2	11-1/2	2-G	6	200073	19	3-1/2	3-5/8	G
5" Diameter						10" Diameter						16" Diameter					
3	203025	2.8	1-15/16		N	3	200026	8.9	3-1/2	3-5/8	G	3	200088	17	3-1/2	3-5/8	G
4	203026	3.0	1-15/16	3	N	4	200027	9.5	3-1/2	3-5/8	G	4	200089	18	3-1/2	3-5/8	G
5	203027	3.5	1-15/16	3	N	5	200028	11	3-1/2	3-5/8	G	5	200090	19	3-1/2	3-5/8	G
6	203028	6.3	1-15/16	3	N	6	200029	12	3-1/2	3-5/8	G	6	200091	21	3-1/2	3-5/8	G
6" Diameter						11" Diameter						20" Diameter					
2	200001	4.3	2-7/16	2-3/8	SF	3	200034	9.7	3-1/2	3-5/8	G	3	200106	18	3-1/2	3-5/8	G
3	200002	4.5	2-7/16	2-3/8	SF	4	200035	9.5	3-1/2	3-5/8	G	4	200107	20	3-1/2	3-5/8	G
4	200003	5.3	2-7/16	2-3/8	SF	5	200036	11	3-1/2	3-5/8	G	5	200108	22	3-1/2	3-5/8	G
5	200004	6.0	2-7/16	2-3/8	SF	6	200037	12	3-1/2	3-5/8	G	6	200109	26	3-1/2	3-5/8	G
6	200005	6.8	2-7/16	2-3/8	SF	8	200038	18	3-1/2	7-1/2	2-G	18" Diameter					
8	200006	10	2-7/16	6-3/4	2-SF	10	200039	20	3-1/2	9-1/2	2-G	3	200124	20	3-1/2	3-5/8	G
10	200007	12	2-7/16	8-3/4	2-SF	12	200040	22	3-1/2	11-1/2	2-G	4	200125	22	3-1/2	3-5/8	G
12	200008	14	2-7/16	10-3/4	2-SF	11" Diameter						5	200126	24	3-1/2	3-5/8	G
7" Diameter						12" Diameter						20" Diameter					
3	200010	5.1	2-7/16	2-3/8	SF	3	200042	11	3-1/2	3-5/8	G	3	200127	25	3-1/2	3-5/8	G
4	200011	6.0	2-7/16	2-3/8	SF	4	200043	9.5	3-1/2	3-5/8	G	20" Diameter					
5	200012	7.0	2-7/16	2-3/8	SF	6	200045	12	3-1/2	3-5/8	G	4	200125	22	3-1/2	3-5/8	G
6	200013	7.9	2-7/16	2-3/8	SF	11" Diameter						5	200126	24	3-1/2	3-5/8	G
8	200014	11	2-7/16	6-3/4	2-SF	11" Diameter						6	200127	25	3-1/2	3-5/8	G
10	200015	13	2-7/16	8-3/4	2-SF	11" Diameter						20" Diameter					
12	200016	15	2-7/16	10-3/4	2-SF	11" Diameter						3	200124	20	3-1/2	3-5/8	G

* Crown face will be furnished unless straight face is specifically ordered.
 Δ Weight does not include weight of bushing.
 ◇ One bushing required per pulley except two required where figure 2 precedes bushing symbol.

Keywords – Pulleys are designed to transmit power by gripping the shaft, and the keywords are not ordinarily required. Bushings will not have a keyword unless requested.

Bushings

Bushing Symbol	Avg. Wt.	Max. Bore		Min. Bore	Out-side Diam.	Lgth.
		No Keyway Δ	With Key-way			
L	.4	1-3/16	1	3/4	1-7/16	3
N	1.0	1-11/16	1-1/2	3/4	1-15/16	3
SF	1.3	2-3/16	1-15/16	3/4	2-7/16	2-3/8
G	2.7	3-7/16	2-15/16	1-3/16	3-1/2	3-5/8

Overall Pulley Face Widths

Pulley Diam.	Overall Face Width for Various Nominal Face Widths Pulley									
	2	3	4	5	6	8	10	12	14	
3	....	3-11/16	4-11/16	5-11/16	6-11/16	....	....	....	....	....
4	....	3-9/16	4-7/16	5-7/16	6-5/16	....	....	....	....	....
5	....	3-9/16	4-5/16	5-5/16	6-5/16	....	....	....	....	....
6-7	2-3/16	3-5/8	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....	....
8-11	2-3/16	4	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....	....
12-11	....	4	4-11/16	5-11/16	6-11/16	8-11/16	10-11/16	12-11/16	....	....
18-20	....	4	4-11/16	5-11/16	6-11/16	....	....	....	....	....

Δ Bushing will not have a keyway unless requested. Keys are not included in price.
 For quantity of bushings required per pulley and symbol of bushing see table above.

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Conveyor Pulley Lagging



Diamond Grooved

- Increases belt tractions
- Eliminates rim wear due to abrasive conditions
- Promotes cleaning action
- 60 durometer hardness standard, 70 and 45 available on request

Lagging Styles

- Vulcanized: plain or grooved
- D-LAG: DODGE exclusive premium rubber polymer designed to maximize abrasion resistance
- Neoprene: flame retardant and oil resistant
- Tuff-Top: vulcanized with a rough top finish
- Holz: replaceable slide on lagging can be installed or replaced with pulley installed
- WING-LAG: replaceable high abrasion slide on wing pulley lagging
- Wing Pulleys can have vulcanized lagging
- Ceramic Lagging: For pulleys with slippage and high wear characteristics



Plain

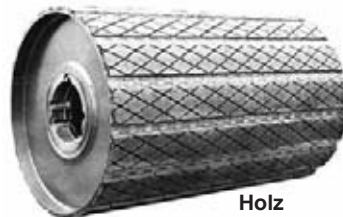


D-LAG



Contact Bar

Slotted WING-LAG slides over contact bars



Holz

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MODIFICATIONS/ ACCESSORIES



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Lagging Weights

1/4" PLAIN VULCANIZED RUBBER LAGGING WEIGHTS

Pulley Dia.	Weights for Various Face Widths																			
	12	14	16	18	20	22	24	26	30	32	36	38	44	46	51	54	57	60	63	66
6	3	4	4	5	5	6	6	6	7	8	9	10	11	12	13	14	15	16	17	17
8	4	5	6	6	6	7	8	9	10	11	12	13	15	16	17	18	19	20	21	23
10	6	6	6	7	8	9	10	11	13	14	16	17	18	19	22	23	24	26	27	28
12	6	7	8	9	10	11	12	13	15	16	18	19	22	23	26	27	29	30	32	33
14	7	8	9	11	12	13	15	16	17	19	21	23	26	28	30	32	34	36	38	40
16	8	9	11	12	14	15	17	17	20	22	25	26	30	31	35	37	39	41	43	45
18	9	10	12	14	15	16	18	19	22	25	28	29	34	35	39	41	43	45	48	51
20	10	12	14	16	17	18	20	22	26	28	30	32	41	40	43	46	49	51	53	56
24	12	14	16	18	20	22	24	26	30	32	36	38	44	46	51	54	57	60	64	66
30	16	17	20	23	26	28	30	33	39	40	45	49	56	59	65	69	73	76	80	84
36	18	20	24	27	30	33	36	39	45	49	55	58	67	71	78	83	87	92	97	101
42	...	...	29	32	36	40	43	46	53	57	64	68	78	82	92	97	102	107	112	118
48	...	...	32	36	40	44	48	52	60	63	72	75	87	92	104	111	116	122	129	135
54	...	...	36	40	45	50	64	60	64	74	82	87	101	106	117	124	131	137	144	152
60	...	...	40	46	51	56	61	66	76	82	92	97	102	118	130	138	145	153	161	168

NOTE: For weights of other lagging, multiply weight given above by factors listed below.

3/8", 1/2" VULCANIZED RUBBER LAGGING WEIGHT FACTORS

Type	Weight Factor	Type	Weight Factor
3/8" Plain	1.49	3/8" Grooved	1.40
1/2" Plain	1.99	1/2" Grooved	1.89

See instructions in footnote above.

Lagging Comparison

Description	Compound	DURO	Abrasion Ranking	DIN Abrasion (mm ³)	Tensile (psi)	Elongation (%)
DODGE D-LAG	PROPRIETARY	65	173	117	2895	600
DODGE STD60	SBR	60	100	202	1660	380
DOSGE STD 70	SBR	70	146	138	2075	400
DODGE STD 45	SBR	45	51	393	1753	650
DODGE NEO60 (MSHA)	NEOPRENE	60	125	162	1425	350
DODGE NEO 70	NEOPRENE	70	166	122	1528	275

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SLIDE LAG®



Exclusive elastomer compounding provides a lagging pad with exceptional drive-pulley traction, abrasion resistance and extra long service life. The elastomer retains its integrity under the most severe operating conditions.

Factory hot-vulcanization under pressure assures the best possible bond of rubber to backing plate. No lagging failures from loss of adhesion and separation—the most common problems associated with conventional lagging.

Steel backing plates are precision formed at the factory to fit the curved surface provided by each individual pulley diameter. Insures proper pad stability and long life.

Rust resistant metal retainers are permanently welded or bolted to the pulley face to securely hold the lagging pads in place. When properly installed, lagging cannot shift or pull free from the effects of impact, trapped material or belt or product movement.

Replaceable pads are designed to fit under the lips of the retainers, allowing the pads to slide in and out during installation. Slide Lag can be installed on conveyor systems without removing the pulleys from their operating positions.

Part Numbers for Style #5 Slide Lag

Part Number	Description
207349	6" Diameter Style 5
207325	8" Diameter Style 5
207326	10" Diameter Style 5
207327	12" Diameter Style 5
207328	14" Diameter Style 5
207329	16" Diameter Style 5
207330	18" Diameter Style 5
207331	20" Diameter Style 5
207332	24" Diameter Style 5
207333	30" Diameter Style 5
207334	36" Diameter Style 5

Other styles of Slide Lag are available upon request. DODGE conveyor pulleys can be readily obtained with Slide Lag pre-installed from the factory.

Ordering Slide Lag with Retainers

For the most common pulley sizes, select the number of 72" pads needed from the Table below.

		PULLEY FACE WIDTH																			
		12"	14"	16"	18"	20"	22"	24"	26"	30"	32"	36"	38"	40"	44"	46"	51"	54"	60"	66"	72"
P U L L E Y D I A M E T E R	6"	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3
	8"	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4
	10"	1	1	2	2	2	2	2	2	3	3	3	3	3	4	4	4	4	5	5	5
	12"	1	2	2	2	2	2	2	3	3	3	3	4	4	4	4	4	5	5	5	6
	14"	2	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	7	7
	16"	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	6	6	7	8	8
	18"	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
	20"	2	2	3	3	3	4	4	4	5	5	5	6	6	7	7	8	8	9	10	10
	24"	2	3	3	3	4	4	4	5	5	6	6	7	7	8	8	9	9	10	11	12
	30"	3	3	4	4	5	5	5	6	7	7	8	8	9	10	10	11	11	12	13	14
	36"	3	4	4	5	5	6	6	7	8	8	9	10	10	11	12	13	14	15	17	18
	42"	4	5	5	6	6	7	7	8	9	10	11	12	12	13	14	15	16	18	20	21
	48"	4	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	18	20	22	24
	54"	5	6	6	7	8	9	9	10	12	12	14	15	15	17	18	20	21	23	25	27
	60"	5	6	7	8	9	10	10	11	13	14	15	16	17	19	20	22	23	25	28	30
	72"	6	7	8	9	10	11	12	13	15	16	18	19	20	22	23	26	27	30	33	36

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MODIFICATIONS/ ACCESSORIES



WING-LAG™

A space age poly-elastomer that improves the performance of conventional wing pulleys. Designed to beat the heat or cold...oil, chemicals or abrasives...for any tough conveyor operation where the job calls for lagged wing pulleys...WING-LAG will do the job better and last longer.

Tougher than rubber. WING-LAG will outlast rubber lagging 2-5 times.

Resists chemicals and abrasives. WING-LAG is not affected by most oils, hydraulic fluids, fuels, chemicals and abrasives.

Excellent temperature range. WING-LAG has an effective operating temperature range of -60 degrees F to +212 degrees F.

WING-LAG grips the wing pulley and stays in place as if it were glued. However, it requires no special metal channeling, retaining grooves or other designed-in retaining feature, therefore it goes on easily and removes easily.



Contact Bar

Greater protection from foreign objects. Because of its tough composition, rocks, coal chunks and other debris trapped between the conveyor belt and the wing will simply be thrown out when the pulley has completed its turn.

Ordering WING-LAG

For the most common pulley sizes, select the number of the wings from the Table below. To calculate the number of 72" pieces needed, multiply the number of wings by the face width and divide by 72. Round the number of pieces up to the next largest number.

Diameter	Heavy Duty No. of Wings	Part Number	Mine Duty No. of Wings	Part Number
8	7	207300	7	207301
10	8	207300	8	207301
12	8	207300	10	207301
14	10	207300	10	207301
16	10	207300	10	207301
18	10	207300	12	207301
20	10	207301	12	207301
24	12	207301	14	207301
30	16	207301	16	207301
36	18	207301	18	207301
42	22	207301	22	207301
48	24	207301	24	207301
54	28	207301	28	207301
60	30	207301	30	207301

WING-LAG is available on standard or custom wing pulleys pre-installed at the factory or it can be retro-fit in the field. Either way a WING-LAG wing pulley will extend the life of conveyor belts and conventional wing pulleys under the most severe operating conditions.

FEATURES/BENEFITS PAGE PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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Conveyor Pulley Assemblies



Drum Pulley Assembly

- Maximize return on investment
- Single source supplier, single source warranty
- Computer aided product selection
- No on-site component assembly
- Complete package of bearing and power transmission components



**Engineered Class
Pulley Assembly**



Drum Pulley Assembly



Wing Pulley Assembly



Spiral Wing Pulley Assembly

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

FEATURES/BENEFITS PAGE PT13-2	SELECTION/DIMENSIONS PAGE PT13-10	RELATED PRODUCTS PAGE PT13-40	ENGINEERING/TECHNICAL PAGE PT13-43
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RELATED PRODUCTS



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

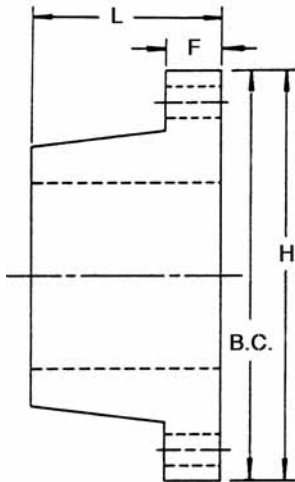
HE Bushings

HE BUSHING DIMENSIONS

Bushing	Maximum Bore (in.)	L (in.)	B.C. (in.)	F (in.)	H (in.)	Number of Bolts	Size of Bolts (in.)
HE-25	2-1/2	2-1/4	3-15/16	3/4	4-5/8	4	3/8-16 x 1-3/4
HE-30	3	2-3/4	4-11/16	7/8	5-5/8	4	1/2-13 x 2-1/4
HE-35	3-1/2	3	5-9/16	7/8	6-5/8	4	9/16-12 x 2-1/4
HE-40	4	3-1/2	6-5/16	1	7-1/2	4	5/8-11 x 2-1/2
HE-45	4-1/2	4	7-5/16	1-1/4	8-3/4	6	5/8-11 x 2-1/2
HE-50	5	4-1/2	8	1-1/2	9-5/8	6	3/4-10 x 3
HE-60	6	5-1/4	9-1/4	1-3/4	11-1/8	6	7/8-9 x 3-1/2
HE-70	7	6-1/4	10-9/16	2	12-3/4	6	1-8 x 4
HE-80	8	7	12-1/8	2-1/4	14-1/2	6	1-1/8-7 x 4-1/2
HE-100	10	9	14-1/2	3	17	6	1-1/4-7 x 5-1/2
HE-120	12	10	17-1/2	3	20	8	1-1/4-7 x 5-1/2

Wrench Torque

Bushing	Wrench Torque (ft.-lbs.)
HE-25	30
HE-30	60
HE-35	90
HE-40	140
HE-45	140
HE-50	200
HE-60	350
HE-70	500
HE-80	500
HE-100	600
HE-120	600



HE-25 to HE120

Details for TAPER-LOCK Bushings - See page PT6-2

Details for QD Bushings - See page PT6-15

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HE Bushings

Bush. No.	Bore	Part No.	Wt.	Bushing Keyway	Shaft Keyway
HE-25	1	206623	4	1/4 x 1/8	1/4 x 1/8
	1-1/8	206744	3		
	1-3/16	206615	3		
	1-1/4	206745	3	5/16 x 5/32	5/16 x 5/32
	1-5/16	206747	3		
	1-3/8	206748	3		
	1-7/16	206617	3		
	1-1/2	206750	3		
	1-11/16	206752	3	3/8 x 3/16	3/8 x 3/16
	1-3/4	206754	3		
	2	206760	3		
	2-1/8	205997	3	1/2 x 1/4	1/2 x 1/4
	2-3/16	206763	3		
	2-1/4	206765	3		
	2-5/16	206767	3	5/8 x 3/16▲	5/8 x 5/16
2-3/8	206768	3			
2-7/16	206621	3			
2-1/2	206770	3			
2-1/2	206770	3			
HE-30	1-3/8	206635	6	5/16 x 5/32	5/16 x 5/32
	1-7/16	206625	6		
	1-1/2	206637	6		
	1-11/16	206639	6	3/8 x 3/16	3/8 x 3/16
	1-3/4	206772	6		
	1-15/16	206627	6		
	2	206774	6	1/2 x 1/4	1/2 x 1/4
	2-3/16	206775	6		
	2-7/16	206629	6		
	2-1/2	206777	6	5/8 x 5/16	5/8 x 5/16
	2-9/16	206838	6		
	2-11/16	206631	6		
	2-3/4	206778	5		
	2-13/16	206779	5		
	2-7/8	206780	5	3/4 x 1/8▲	3/4 x 3/8
2-15/16	206633	6			
3	206781	5			
HE-35	1-3/16	206648	8	1/4 x 1/8	1/4 x 1/8
	1-7/16	206649	8		
	1-1/2	206784	8		
	1-11/16	206786	8	3/8 x 3/16	3/8 x 3/16
	1-3/4	206839	9		
	1-15/16	206640	9		
	2	206788	8	1/2 x 1/4	1/2 x 1/4
	2-3/16	206790	8		
	2-1/4	206792	8		
	2-3/8	206794	8	5/8 x 5/16	5/8 x 5/16
	2-7/16	206642	8		
	2-1/2	206795	8		
	2-11/16	206796	8		
	2-3/4	206798	8		
	2-7/8	206800	8	3/4 x 3/8	3/4 x 3/8
2-15/16	206644	8			
3	206801	8			
3-3/16	206803	8	7/8 x 3/16▲	7/8 x 7/16	
3-3/8	206840	8			
3-7/16	206646	8			
3-1/2	206807	8	1/2 x 1/4	1/2 x 1/4	
1-15/16	206658	13			
2-3/16	206659	13			
2-7/16	206810	13			
2-1/2	206811	13			
2-11/16	206650	13	5/8 x 5/16	5/8 x 5/16	
2-15/16	206652	13			
3-3/16	206812	13			
3-11/16	206813	13	3/4 x 3/8	3/4 x 3/8	
3-7/16	206654	13			
3-7/8	206841	21			
3-15/16	206656	13	1 x 1/4▲	1 x 1/2	
4	206815	12			

Bush. No.	Bore	Part No.	Wt.	Bushing Keyway	Shaft Keyway
HE-45	1-15/16	206670	22	1/2 x 1/4	1/2 x 1/4
	2-7/16	206660	22	5/8 x 5/16	5/8 x 5/16
	2-15/16	206662	22	3/4 x 3/8	3/4 x 3/8
	3-7/16	206664	22	7/8 x 7/16	7/8 x 7/16
	3-1/2	206671	22		
	3-15/16	206666	21	1 x 1/2	1 x 1/2
	4-3/16	206672	21	1 x 1/4▲	1 x 1/2
	4-7/16	206668	21		
	4-1/2	206673	21		
	2-15/16	207998	30	7/8 x 7/16	7/8 x 7/16
3-7/16	206817				
3-15/16	206818	40	1 x 1/2	1 x 1/2	
4-7/16	206675	35			
4-15/16	206677	29	1-1/4 x 1/4▲	1-1/4 x 5/8	
5	206821	23			
3-15/16	206686	50	1 x 1/2	1 x 1/2	
4-1/4	206687	47			
4-7/16	206688	65			
4-15/16	206680	50	1-1/4 x 5/8	1-1/4 x 5/8	
5-7/16	206682	49			
5-1/2	206823	40			
5-15/16	206684	49			
6	206825	38	1-1/2 x 1/4▲	1-1/2 x 3/4	
5-15/16	206690	72	1-1/2 x 3/4	1-1/2 x 3/4	
6	207396	71			
6-7/16	206692	71			
6-1/2	206845	71	1-3/4 x 1/4▲	1-3/4 x 3/4	
6-15/16	206694	69			
7	206847	69	1-1/2 x 3/4	1-1/2 x 3/4	
6-7/16	206700	111			
7-1/2	206849	105	1-3/4 x 3/4	1-3/4 x 3/4	
6-15/16	206702	108			
7-7/16	206704	105			
7-15/16	206706	102	2 x 3/4	2 x 3/4	
8	206708	100			
7-1/2	206710	200	1-3/4 x 3/4	1-3/4 x 3/4	
7-15/16	206712	198	2 x 3/4	2 x 3/4	
8	206718	195			
8-1/2	206720	193			
8-15/16	206714	196	2-1/2 x 7/8	2-1/2 x 7/8	
9	206722	191			
9-1/2	206724	189	2 x 3/4	2 x 3/4	
10	206716	190			
8-1/2	207380	415	2 x 3/4	2 x 3/4	
9	207382	395			
9-1/2	207384	375	2-1/2 x 7/8	2-1/2 x 7/8	
10	207386	353			
10-1/2	207388	330			
11	207390	308			
11-1/2	207392	285	3 x 1	3 x 1	
12	207394	261			

▲ Keys Furnished For These Sizes Only

Reborable HE Bushings						
Bushing	Part Number	Minimum Bore	Inch		Metric	
			Maximum Bore (in.) Sq. Key	Maximum Bore (in.) Shallow Key	Minimum Bore (mm)	Maximum Bore (mm)
HE25	207960	15/16	2-1/4	2-1/2	24	60
HE30	207961	15/16	2-3/4	3	24	75
HE35	207962	1-3/16	3-1/4	3-1/2	32	85
HE40	207963	1-15/16	3-3/4	4	50	100
HE45	230794	1-15/16	3-15/16	4-1/2	50	110
HE50	207965	2-15/16	4-1/2	5	75	125
HE60	207966	3-7/16	5-1/2	6	90	150
HE70	207967	4-7/16	6-1/2	7	120	170
HE80	207968	5-7/16	8	-	140	200
HE100	207969	6-15/16	10	-	180	250
HE120	207970	7-15/16	12	-	220	300

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RELATED PRODUCTS



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

Keyless Locking Assemblies

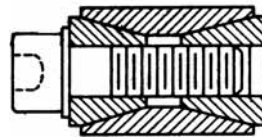


The DODGE Pulley Pros have been designing and fabricating special pulleys with Keyless Locking Assemblies for over 30 years. Hubs are computer designed for use with single or dual locking assemblies.

Keyless locking assemblies are available in two basic configurations – short series and long series. Long series locking assemblies feature a longer length thru bore with a corresponding increase in contact area between the locking assembly and the shaft and hub.

Most conveyor pulley applications require only one short series locking assembly in each pulley hub to transmit the bending and torsional moments. Heavier loaded pulleys require long series or dual short series locking assemblies to transmit increased loads. The DODGE Pulley Pros have the experience and expertise to determine the best keyless locking assembly configuration for any application.

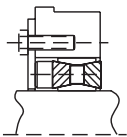
DODGE Keyless Locking Assemblies are self-contained, high torque capacity, shaft-hub locking devices. They provide many features and benefits to conveyor pulley assemblies, including no keyway stress concentration, no axial movement during assembly, high torque capacity, and easy assembly and disassembly. The locking assembly design includes concentric, tapered rings. As the locking screws are torqued, the locking assembly clamps down on the shaft and expands into the hub bore, establishing a tight mechanical shrink fit.



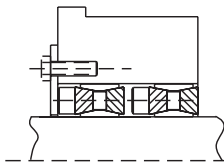
Short Series Locking Assembly



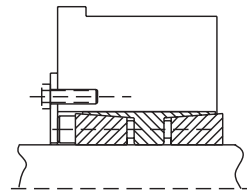
Long Series Locking Assembly



Short Series



Duplex Series Locking Assembly



Long Series Locking Assembly

Available in Weld On Hub, Integral Hub or T-Section. See Page PT13-30.

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Horsepower and Belt Tension for Simple Conveyors *

Horsepower

The horsepower required to operate a belt conveyor depends on the following:

1. Maximum tonnage to be handled
2. Length of the conveyor
3. Vertical lift of the conveyor

To determine horsepower required for a horizontal conveyor, use Table 1 only.

To determine horsepower required for an inclined conveyor, use Table 1 and Table 2. Figure each table separately and sum the results to determine total horsepower required.

Note: Other factors, such as conveyor plows, scrapers, and skirt boards over 12 feet, will require additional factors for horsepower. See conveyor design program or call conveyor component engineering for assistance.

Table 1 – HP Required to Operate Loaded Conveyor on the Level

Length of Conveyor in feet	Short Tons Per Hour (2000 lbs.)												
	100	150	200	250	300	350	400	500	600	700	800	900	1000
25	2.0	2.3	2.5	2.7	3.0	3.3	3.5	4.0	4.5	5.0	5.5	6.0	6.5
50	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.8	5.4	6.0	6.6	7.2	7.8
75	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.5	6.2	6.9	7.6	8.3	9.0
100	3.0	3.4	3.8	4.2	4.5	4.9	5.3	6.0	6.8	7.5	8.3	9.0	9.8
125	3.4	3.8	4.2	4.6	5.0	5.4	5.8	6.6	7.4	8.2	9.0	9.8	10.6
150	3.7	4.1	4.6	5.0	5.5	5.9	6.3	7.2	8.1	9.0	9.9	10.8	11.5
175	4.0	4.5	5.0	5.5	6.0	6.5	7.0	8.0	9.0	10.0	11.0	12.0	13.0
200	4.3	4.8	5.3	5.8	6.4	7.0	7.5	8.6	9.7	10.8	11.9	13.0	14.1
225	4.6	5.1	5.7	6.2	6.8	7.3	8.0	9.2	10.4	11.6	12.8	14.0	15.2
250	4.9	5.5	6.2	6.8	7.5	8.0	8.8	10.1	11.4	12.7	14.0	15.3	16.6
300	5.6	6.2	7.0	7.6	8.4	9.0	9.8	11.2	12.6	14.0	15.4	16.8	18.2
350	6.2	6.9	7.7	8.4	9.2	10.0	10.7	12.2	13.7	15.2	16.7	18.2	19.7
400	6.8	7.6	8.5	9.2	10.2	11.0	11.9	13.6	15.3	17.0	18.7	20.4	22.1
450	7.3	8.3	9.2	10.2	11.1	12.0	13.0	14.9	16.8	18.7	20.6	22.5	24.4
500	8.0	9.0	10.1	11.1	12.2	13.2	14.3	16.4	18.5	20.6	22.7	24.8	26.9

Table 2 – HP Required to Lift Load on Belt Conveyor

Lift in Feet	Short Tons Per Hour (2000 lbs.)												
	100	150	200	250	300	350	400	500	600	700	800	900	1000
10	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0	8.0	9.0	10.0
20	2.0	3.0	4.0	5.0	6.0	7.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0
30	3.0	4.5	6.0	7.5	9.0	10.5	12.0	15.0	18.0	21.0	24.0	27.0	30.0
40	4.0	6.0	8.0	10.0	12.0	14.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0
50	5.0	7.5	10.0	12.5	15.0	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0
60	6.0	9.0	12.0	15.0	18.0	21.0	24.0	30.0	36.0	42.0	48.0	54.0	60.0
70	7.0	10.5	14.0	17.5	21.0	24.5	28.0	35.0	42.0	49.0	56.0	63.0	70.0
80	8.0	12.0	16.0	20.0	24.0	28.0	32.0	40.0	48.0	56.0	64.0	72.0	80.0
90	9.0	13.5	18.0	22.5	27.0	31.5	36.0	45.0	54.0	63.0	72.0	81.0	90.0
100	10.0	15.0	20.0	25.0	30.0	35.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0

Belt Tension:

The belt tensions developed in a belt conveyor depend on the following:

1. Motor horsepower
2. Belt speed in feet per minute
3. Drive configuration

To determine tight side (T_1) and slack side (T_2) operating tensions, first determine the effective tension (difference between T_1 and T_2)

from: $T_e = 33,000 \times \text{HP}/\text{FPM}$

Where: T_e = Effective tension
 HP = Motor horsepower
 FPM = Belt speed

The slack side belt tension is calculated from T_e and the drive factor C_w (from Table 7) by: $T_2 = T_e \times C_w$

Where: T_2 = Slack side tension

T_e = Effective tension

C_w = Drive factor from Table 7

Table 7 – Drive Factor

Type of pulley drive	0 Wrap	Automatic takeup		Manual takeup	
		Bare Pulley	Lagged Pulley	Bare Pulley	Lagged Pulley
Single no snub	180°	0.84	0.50	1.2	0.8
Single with snub	200°	0.72	0.42	1.0	0.7
	210°	0.66	0.38	1.0	0.7
	220°	0.62	0.35	0.9	0.6
	240°	0.54	0.30	0.8	0.6

The tight side tension is calculated from T_e and T_2 by:

$$T_1 = T_e + T_2$$

Where: T_1 = Tight side tension

T_e = Effective tension

T_2 = Slack side tension

Example: Horsepower and Tension calculation

Calculate horsepower and belt tensions for a conveyor given:

1. Capacity of 300 tons per hour
2. 300 ft. conveyor length
3. 20 ft. conveyor lift
4. Belt speed of 450 feet per minute
5. Screw take-up system
6. 180° arc of contact on drive pulley
7. Lagged drive pulley

Horsepower:

From Table 5 the horsepower required to operate the belt on the level is 8.4. From Table 6 the horsepower required for lift is 6.0. The total horsepower required is $8.4 + 6.0 = 14.4$. (A 15 HP motor would be selected.)

Tension:

First calculate effective tension from:

$$T_e = \frac{33000 \times \text{HP}}{\text{FPM}} \quad T_e = \frac{33000 \times 15}{450} = 1100 \text{ lbs.}$$

Calculate T_2 from T_e and drive factor C_w (From Table 7 $C_w = .8$)

$$T_2 = C_w \times T_e \quad T_2 = .8 \times 1100 = 880 \text{ lbs.}$$

Finally calculate T_1 from T_2 and T_e

$$T_1 = T_2 + T_e \quad T_1 = 880 + 1100 = 1980 \text{ lbs.}$$

* These calculations are limited to level or uphill conveyors with single drive pulley and a maximum length of 500 ft. For other systems, consult DODGE.



NOTES



DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

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Vibration Frequencies Of DODGE Anti-Friction Mounted Bearings

More and more manufacturing facilities are getting involved with plant-wide preventive maintenance programs. By monitoring vibration levels of motors, pumps, fans and compressors, maintenance supervisors can predict imminent failures. Knowing that a piece of equipment is showing signs of potential failure permits scheduling of maintenance at an appropriate time and avoids the consequences of catastrophic failures. Shown on Table 1 - Table 10 are vibration frequencies generated by bearing components defects. All frequencies are based on unity inner ring or cone rotation.

Frequency

Cup Nick or Spall	1000 x 9.249 = 9249 RPM
Cone Nick or Spall	1000 x 11.751 = 11751 RPM
Roller Nick or Spall	1000 x 8.068 = 8068 RPM
Roll Size Variation	1000 x .440 = 440 RPM

Since all the values on Table 1 - Table 10 are based on unity inner ring or cone rotation, the vibration due to flaws will show up at the frequencies obtained by multiplying the RPM times the factors found on the appropriate table. The resulting product will have units of REV./MIN.

How to Use the Tables

If a 2-7/16 Type E pillow block is rotating at 1000 RPM, the vibration due to a failed component will show up at the following frequencies: (Table 3 , Line 6)

Table 1: All Setscrew, Eccentric & D-Lok Ball Bearing Parameters For Vibration Analysis (1-RPS)

Series	SC Bore	SCM Bore	# Balls	Diameter of Balls	Pitch Diameter	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Ball Spin Frequency Hz	Cage Frequency Hz
203	1/2 - 5/8		8	17/64	1.1506	3.076569	4.923431	2.050406	0.384571
204	1/2 - 3/4		8	5/16	1.3251	3.056675	4.943325	2.002244	0.382084
205	7/8 - 1		9	5/16	1.5325	3.582382	5.417618	2.350042	0.398042
206	1-1/6 - 1-1/4	1	9	3/8	1.823	3.574328	5.425672	2.327814	0.397148
207	1-1/4 - 1-7/16	1-3/16	9	7/16	2.136	3.578301	5.421699	2.338732	0.397589
208	1-1/2 - 1-5/8	1-7/16 - 1-1/2	9	1/2	2.387	3.557394	5.442606	2.282266	0.395266
209	1-11/16 - 1-3/4	1-1/2	9	13/25	2.5591	3.585616	5.414384	2.359075	0.398402
210	1-15/16 - 2	1-11/16 - 1-3/4	10	1/2	2.7645	4.095677	5.904323	2.674068	0.409568
211	2 2-1/4	1-15/16 - 2	10	9/16	3.092	4.090395	5.909605	2.657484	0.409039
212	2-1/4 - 2-7/16	2-3/16 - 2-1/4	10	5/8	3.385	4.076809	5.923191	2.615681	0.407681
214	2-11/16	2-7/16 - 2-1/2	10	11/16	3.775	4.089404	5.910596	2.654395	0.408940
215	2-15/16	2-11/16	11	11/16	4.085	4.574357	6.425643	2.886760	0.415851
216		2-15/16 - 3	11	3/4	4.33	4.547344	6.452656	2.800062	0.413395
218		3-7/16 - 3-1/2	11	27/32	4.9199	4.556764	6.443236	2.829748	0.414251

Table 2: CC Ball Bearing Parameters For Vibration Analysis (1-RPS)

Series	Shaft Size	# Balls	Diameter of Balls	Pitch Diameter	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Ball Spin Frequency Hz	Cage Frequency Hz
205	15/16 - 1	9	5/16	1.516	3.572394	5.427606	2.322533	0.396933
206	1-1/8 - 1-3/16	9	3/8	1.811	3.568194	5.431806	2.311133	0.396466
207	1-1/4 - 1-7/16	9	7/16	2.106	3.565171	5.434829	2.302987	0.396130
209	1-11/16 - 1-3/4	9	1/2	2.362	3.547417	5.452583	2.256157	0.394157
210	1-15/16	10	1/2	2.756	4.092888	5.907112	2.665289	0.409289
211	2-3/16	10	9/16	3.051	4.078171	5.921829	2.619817	0.407817

Table 3: Type E, K, DI, and TAF Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	# Rollers Per Row	Mean Diameter of Rollers	Pitch Diameter	Contact Angle	Cup Frequency Hz	Cone Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
1-3/16 - 1-1/4	19	0.23	1.774	17.533	8.325540	10.674460	3.797580	0.438186
1-3/8 - 1-7/16	20	0.29	2.084	16.5	8.665750	11.334250	3.529138	0.433287
1-1/2 - 1-11/16	18	0.35	2.411	16	7.744100	10.255900	3.377216	0.430228
1-3/4 - 2	17	0.41	2.709	12.033	7.241814	9.758186	3.231274	0.425989
2-3/16	19	0.41	3.014	13.283	8.242270	10.757730	3.611184	0.433804
2-1/4 - 2-1/2	21	0.41	3.337	14.5	9.251011	11.748989	4.011931	0.440524
2-11/16 - 3	24	0.41	3.9	16.733	10.791879	13.208121	4.707891	0.449662
3-3/16 - 3-1/2	26	0.46	4.78	18.167	11.811316	14.188684	5.152213	0.454281
3-15/16 - 4	26	0.51	5.12	17.567	11.765467	14.234533	4.974340	0.452518
4-7/16 - 4-1/2	25	0.59	5.727	18.983	11.282275	13.717725	4.807330	0.451291
4-15/16 - 5	25	0.68	6.568	17	11.262395	13.737605	4.782071	0.450496
5-7/16 - 6	32	0.67	8.444	17.75	14.790895	17.209105	6.265507	0.462215
6-7/16 - 7	27	0.93	9.791	19.167	12.288783	14.711217	5.221605	0.455140

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (2 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

Table 4: Type C Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	# Rollers Per Row	Mean Diameter of Rollers	Pitch Diameter	Contact Angle	Cup Frequency Hz	Cone Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
1-3/16 - 1-7/16	19	0.31	2.251	14.92	8.235801	10.764199	3.566352	0.433463
1-1/2 - 1-3/4	21	0.32	2.604	11.50	9.235581	11.764419	4.009748	0.439790
1-15/16	22	0.33	2.848	15.00	9.768852	12.231148	4.261097	0.444039
2 - 2-1/4	21	0.40	3.335	16.83	9.294571	11.705429	4.113807	0.442599
2-3/16 - 2-7/16	25	0.35	3.533	18.00	11.322284	13.677716	5.002340	0.452891
2-1/2 - 2-11/16	23	0.43	3.827	16.50	10.261076	12.738924	4.398352	0.446134
2-7/16 - 2-15/16	26	0.42	4.22	16.50	11.759442	14.240558	4.978061	0.452286
3 - 3-3/16	22	0.55	4.612	16.50	9.742225	12.257775	4.137910	0.442828
3-1/4 - 3-7/16	24	0.51	4.761	16.42	10.766982	13.233018	4.618367	0.448624
3-1/2 - 4	25	0.59	5.727	18.98	11.282253	13.717747	4.807328	0.451290
4-7/16 - 4-1/2	33	0.46	3.109	11.50	14.107710	18.892290	3.308310	0.427506
4-15/16 - 5	26	0.68	6.983	18.00	11.796028	14.203972	5.090519	0.453693

$$\text{Cup Frequency} = N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Cone Frequency} = N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 2$$

$$\text{Roller Spin Frequency} = \text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (2 * \text{Bd})$$

$$\text{Cage Frequency} = \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 2$$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Cup Angle (contact angle)

Table 5: Special Duty Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	# Rollers Per Row	Mean Diameter of Rollers	Pitch Diameter	Contact Angle	Cup Frequency Hz	Cone Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
1-3/8 - 1-1/2	16	0.40	2.563	11.54	6.776702	9.223298	3.128839	0.423544
1-9/16 - 1-3/4	18	0.40	2.854	12.72	7.769570	10.230430	3.500820	0.431643
1-7/8 - 2	19	0.41	3.014	13.28	8.242255	10.757745	3.611183	0.433803
2-1/8 - 2-1/4	22	0.41	3.475	15	9.746381	12.253619	4.182764	0.443017
2-3/8 - 2-1/2	20	0.46	3.695	14.38	8.794078	11.205922	3.957897	0.439704
2-5/8 - 3	22	0.51	4.336	15.07	9.750677	12.249323	4.196146	0.443213
3-3/16 - 3-1/2	23	0.59	5.22	17.42	10.259806	12.740194	4.372280	0.446079
3-11/16 - 4	23	0.68	5.942	15.50	10.231809	12.768191	4.315984	0.444861
4-7/16 - 4-1/2	26	0.68	6.983	18	11.796028	14.203972	5.090519	0.453693
4-15/16 - 5	24	0.81	7.537	16.42	10.762960	13.237040	4.603028	0.448457
5-7/16 - 6	24	0.93	9.123	17.33	10.832249	13.167751	4.858391	0.451344
6-1/2 - 7	29	0.93	10.19	19.23	13.250482	15.749518	5.437812	0.456913
7-15/16 - 8	27	1.12	11.471	12.42	12.212741	14.787259	5.074422	0.452324
8-1/2 - 10	41	0.87	13.979	16.40	19.276067	21.723933	8.005271	0.470148
11 - 12	37	1.20	16.061	12.50	17.150534	19.849466	6.656476	0.463528

Cup Frequency = $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$
 Cone Frequency = $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$
 Roller Spin Frequency = $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$
 Cage Frequency = $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter
 N = Number of rollers
 Bd = Roller Diameter
 a = Cup Angle (contact angle)

Table 6: All Steel Tapered Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	# Rollers Per Row	Mean Diameter of Rollers	Pitch Diameter	Contact Angle	Cup Frequency Hz	Cone Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
2-11/16 - 3	27	0.36	4.114	15.50	12.361632	14.638368	5.673261	0.457838
3-1/4 - 3-1/2	26	0.51	5.120	17.57	11.765488	14.234512	4.974342	0.452519
3-15/16 - 4	33	0.48	5.814	12.50	15.170061	17.829939	6.016904	0.459699
4-7/16 - 4-1/2	29	0.60	6.503	12.92	13.196026	15.803974	5.375340	0.455035
4-15/16 - 5	32	0.61	7.355	12.50	14.704466	17.295534	5.989163	0.459515
5-7/16	27	0.84	8.272	12	12.159067	14.840933	4.875231	0.450336
5-15/16 - 6	26	0.85	8.323	12	11.701366	14.298634	4.847026	0.450053
6-7/16 - 7	32	0.81	9.748	12.50	14.702011	17.297989	5.977683	0.459438
7-1/2 - 8	27	1.12	11.471	12.42	12.212741	14.787259	5.074422	0.452324
9 - 10	32	1.28	14.026	12.03	14.571921	17.428079	5.435259	0.455373

Cup Frequency = $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$
 Cone Frequency = $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$
 Roller Spin Frequency = $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$
 Cage Frequency = $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter
 N = Number of rollers
 Bd = Roller Diameter
 a = Cup Angle (contact angle)

Table 7: Spherical Roller Bearing Parameters for Vibration Analysis (1-RPS)

Basic Bearing Series	USAF/SAF-XT Bore Sizes (in)	S2000 Unisphere II Sizes (in)	Imperial Bore Sizes (in)	# Rollers Per Row	Diameter of Rollers	Pitch Diameter	Contact Angle	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Spin Frequency Hz	Cage Frequency Hz
22207E1ASKM				15	0.3937	2.166	11.750	6.165339	8.834661	2.663713	0.411023
22208E1ASKM		1-3/8 - 1-1/2	1-1/8 - 1-1/2	15	0.4488	2.449	10.583	6.148942	8.851058	2.639849	0.409929
22209E1ASKM	1-7/16	1-11/16 - 1-3/4	1 5/8 - 1-3/4	17	0.4291	2.665	9.750	7.151157	9.848843	3.027139	0.420656
22210E1ASKM	1-11/16	1-15/16 - 2	1 7/8 - 2	18	0.4331	2.858	9.083	7.653247	10.346753	3.225588	0.425180
22211E1ASKM	1-15/16	2-3/16	2-3/16 - 2-1/4	19	0.4646	3.189	8.750	8.132069	10.867931	3.360826	0.428004
22213E1ASKM	2-3/16	2-7/16	2-3/8 - 2-1/2	18	0.5827	3.795	9.083	7.635432	10.364568	3.181534	0.424191
22215E1ASKM	2 7/16 - 2-1/2	2-11/16 - 3	2-11/16 - 3	20	0.5748	4.197	8.250	8.644623	11.355377	3.583768	0.432231
22216E1ASKM	2-11/16 - 2-3/4			19	0.6535	4.48	8.167	8.128283	10.871717	3.356234	0.427804
22217E1ASKM	2-15/16 - 3			18	0.7323	4.764	8.417	7.631462	10.368538	3.177554	0.423970
22218E1ASKM	3-3/16	3-7/16	3-3/16 - 3-1/2	18	0.7795	5.079	8.833	7.635107	10.364893	3.182930	0.424173
22220E1ASKM	3-7/16 - 3-1/2	3-1 5/16 - 4	3-1 1/16 - 4	18	0.878	5.705	9.000	7.631952	10.368048	3.173794	0.423997
22222E1ASKM	3-1 5/16 - 4	4-7/16	4-7/16 - 4-1/2	17	1.0197	6.287	9.417	7.139947	9.860053	3.003844	0.419997
22224E1ASKM	4-3/16			18	1.0472	6.819	9.417	7.636487	10.363513	3.181095	0.424249
22226E1ASKM	4-7/16 - 4-1/2	4-15/16	4-15/16 - 5	18	1.1181	7.307	9.750	7.642733	10.357267	3.193282	0.424596
22228E1ASKM	4-15/16 - 5		5-7/16 - 5-1/2	18	1.2165	7.933	9.583	7.639139	10.360861	3.186035	0.424397
22230E1ASKM	5-3/16			18	1.315	8.559	9.500	7.636209	10.363791	3.179646	0.424234
22232E1ASKM	5-7/16 - 5-1/2		5-15/16 - 6	18	1.4094	9.189	9.667	7.639189	10.360811	3.185371	0.424399
22234E1ASKM	5-15/16 - 6			17	1.5827	9.74	9.833	7.139085	9.860915	2.998143	0.419946
22236E1ASKM	6-7/16 - 6-1/2		6-7/16 - 7	18	1.5591	10.157	9.417	7.637116	10.362884	3.182632	0.424284
22238E1ASKM	6-15/16 - 7			20	1.4961	10.669	10.667	8.621944	11.378056	3.497892	0.431097
22240E1ASKM	7-3/16			19	1.6142	11.021	10.833	8.133372	10.866628	3.343119	0.428072
22244E1ASKM	7-1/2 - 8			19	1.8504	12.48	10.833	8.116546	10.883454	3.300728	0.427187
23048KMB	8-7/16 - 9			29	1.1417	12.008	9.333	13.139616	15.860384	5.212536	0.453090
23052KMB	9-7/16 - 9-1/2			27	1.378	13.228	9.667	12.113633	14.886367	4.749092	0.448653
23056KMB	9-15/16 - 10-1/2			28	1.378	13.976	9.333	12.637908	15.362092	5.023115	0.451354

Outer Ring Frequency = $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$

Inner Ring Frequency = $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$

Roller Spin Frequency = $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$

Cage Frequency = $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

Table 8: DODGE USAF Air Handling Spherical Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	Basic Bearing Series	# Rollers Per Row	Diameter of Rollers	Pitch Diameter	Contact Angle	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
1-7/16	22209E1K	17	0.3937	2.5976	10.0000	7.231287	9.768713	3.225462	0.425370
1-11/16	22210E1K	19	0.3937	2.7976	9.2500	8.180471	10.819529	3.484413	0.430551
1-15/16	22211E1K	18	0.4528	3.0921	8.9200	7.698000	10.302000	3.342963	0.427667
2-3/16	22213E1K	19	0.5315	3.7110	9.2500	8.157076	10.842924	3.421302	0.429320
2-7/16 - 2-1/2	22215E1K	21	0.5315	4.1098	8.3300	9.156413	11.843587	3.802922	0.436020
2-11/16 - 2-3/4	22216E1K	20	0.5709	4.3638	8.2500	8.705275	11.294725	3.757794	0.435264
2-15/16 - 3	22217E1K	20	0.6299	4.6811	8.5000	8.669157	11.330843	3.649937	0.433458
3-3/16	22218E1K	20	0.6693	4.9602	8.8300	8.666651	11.333349	3.639636	0.433333
3-7/16 - 3-1/2	22220E1K	19	0.7677	5.5606	9.0000	8.204572	10.795428	3.554256	0.431820
3-15/16 - 4	22222E1K	19	0.8661	6.1559	9.4200	8.181428	10.818572	3.485342	0.430601
4-3/16	22224E1K	19	0.9252	6.6382	9.5800	8.194401	10.805599	3.519683	0.431284
4-7/16 - 4-1/2	22226E1K	19	0.9843	7.1358	9.9200	8.209178	10.790822	3.557887	0.432062
4-15/16 - 5	22228E1K	19	1.0630	7.7232	9.6700	8.211024	10.788976	3.565861	0.432159

Outer Ring Frequency = $N * RPM * (1 - (Bd * \cos a / Pd)) / 120$

Inner Ring Frequency = $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$

Roller Spin Frequency = $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$

Cage Frequency = $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

Table 9: Split-Spherical Roller Bearing Parameters For Vibration Analysis

Bore Size	Basic Bearing Series	# Rollers Per Row	Diameter of Rollers	Pitch Diameter	Contact Angle	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
2-3/16	22213SS	17	0.559	3.414	9.000	7.125120	9.874880	2.973241	0.419125
2-7/16	22215SS	18	0.551	3.748	9.083	7.693012	10.306988	3.328155	0.427390
2-11/16	22216SS	19	0.579	3.950	8.667	8.124082	10.875918	3.341232	0.427583
2-15/16	22217SS	20	0.575	4.153	8.250	8.630263	11.369737	3.544783	0.431513
3-3/16	22218SS	19	0.654	4.435	8.167	8.114365	10.885635	3.321078	0.427072
3-7/16	22220SS	18	0.780	5.079	8.833	7.635107	10.364893	3.182930	0.424173
3-15/16 - 4	22222SS	18	0.878	5.634	9.000	7.614712	10.385288	3.132415	0.423040
4-3/16	22224SS	17	1.110	6.203	9.417	6.999864	10.000136	2.707845	0.411757
4-7/16 - 4-1/2	22226SS	18	1.047	6.727	9.417	7.617839	10.382161	3.136146	0.423213
4-15/16	22228SS	18	1.118	7.202	9.750	7.622945	10.377055	3.145244	0.423497
5-3/16	22230SS	18	1.217	7.822	9.583	7.619828	10.380172	3.139355	0.423324
5-7/16	22232SS	18	1.315	8.442	9.500	7.617307	10.382693	3.134123	0.423184
5-15/16 - 6	22234SS	18	1.409	9.059	9.667	7.619661	10.380339	3.138182	0.423314
6-7/16 - 6-1/2	22236SS	18	1.409	9.059	9.667	7.619661	10.380339	3.138182	0.423314
6-15/16 - 7	22238SS	18	1.559	10.021	9.417	7.618619	10.381381	3.138004	0.423257
7-3/16	22240SS	16	1.579	10.716	9.417	6.837308	9.162692	3.322243	0.427332
7-1/2 - 8	22244SS	16	1.752	11.257	9.500	6.771984	9.228016	3.136916	0.423249
8-1/2 - 9	23048SS	20	1.307	11.189	8.083	8.843406	11.156594	4.222831	0.442170
9-1/2	23052SS	22	1.339	11.949	8.417	9.780985	12.219015	4.408432	0.444590
10	23056SS	20	1.539	13.175	8.667	8.844916	11.155084	4.222170	0.442246

Outer Ring Frequency = $N * RPM * (1 - (Bd * \cos a / Pd)) / 12$

Inner Ring Frequency = $N * RPM * (1 + (Bd * \cos a / Pd)) / 120$

Roller Spin Frequency = $Pd * RPM * (1 - (Bd * \cos a / Pd)^2) / (120 * Bd)$

Cage Frequency = $RPM * (1 - (Bd * \cos a / Pd)) / 120$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

Table 10: USDAF Spherical Roller Bearing Parameters For Vibration Analysis (1-RPS)

Bore Size	Basic Bearing Series	# Rollers Per Row	Diameter of Rollers	Pitch Diameter	Contact Angle	Outer Ring Frequency Hz	Inner Ring Frequency Hz	Roller Spin Frequency Hz	Cage Frequency Hz
10-15/16 - 11	23060K	27	1.575	15.066	9.5	12.108065	14.891935	4.732011	0.448447
11-7/16 - 12	23064K	28	1.575	15.85	9.333	12.627248	15.372752	4.983368	0.450973
12-7/16 - 12-1/2	23068K	27	1.732	17.007	9.5	12.144010	14.855990	4.860109	0.449778
12-15/16 - 13-1/2	23072K	28	1.732	17.793	9.333	12.655257	15.344743	5.089157	0.451973
13-15/16 - 14	23076K	30	1.732	18.587	9	13.619458	16.380542	5.320311	0.453982
15	23080K	29	1.929	19.822	9.167	13.106938	15.893062	5.090472	0.451963
15-3/4	23084K	30	1.929	20.609	9	13.613287	16.386713	5.296232	0.453776
9-7/16 - 9-1/2	23152K	23	1.693	13.914	12.5	10.133894	12.866106	4.051285	0.440604
10-7/16 - 10-1/2	23156K	24	1.732	14.711	12	10.618053	13.381947	4.190502	0.442419
10-15/16 - 11	23160K	23	1.89	15.923	12.333	10.166494	12.833506	4.155793	0.442021
11-15/16 - 12	23164K	23	2.087	17.044	12.833	10.127024	12.872976	4.025170	0.440305
12-7/16 - 12-1/2	23168K	23	2.244	18.272	12.833	10.122953	12.877047	4.012925	0.440128
13-7/16 - 13-1/2	23172K	24	2.244	19.077	12.333	10.621032	13.378968	4.194537	0.442543
13-15/16 - 14	23176K	25	2.323	19.833	12	11.067894	13.932106	4.212801	0.442716
8-15/16 - 9	23248K	20	1.929	13.523	14	8.615913	11.384087	3.438035	0.430796
9-7/16 - 9-1/2	23252K	19	2.126	14.745	14	8.170935	10.829065	3.399907	0.430049
10-7/16 - 10-1/2	23256K	20	2.126	15.537	13.583	8.669925	11.330075	3.589401	0.433496
10-15/16 - 11	23260K	20	2.323	16.706	13.833	8.649811	11.350189	3.530230	0.432491
11-15/16 - 12	23264K	20	2.441	17.878	14	8.675192	11.324808	3.597751	0.433760
12-7/16 - 12-1/2	23268K	20	2.638	19.048	14.167	8.657198	11.342802	3.545213	0.432860

Outer Ring Frequency = $N * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$

Inner Ring Frequency = $N * \text{RPM} * (1 + (\text{Bd} * \cos a / \text{Pd})) / 120$

Roller Spin Frequency = $\text{Pd} * \text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})^2) / (120 * \text{Bd})$

Cage Frequency = $\text{RPM} * (1 - (\text{Bd} * \cos a / \text{Pd})) / 120$

Pd = Pitch Diameter

N = Number of rollers

Bd = Roller Diameter

a = Contact Angle

Mounted Bearings Life Adjustment Factor

1.1 GENERAL. For certain applications, it is desirable to specify life for reliability other than 90%. In such cases a life adjustment factor for reliability may be applied to the RATING LIFE. Section 1.2 discusses life adjustment factors for reliability.

Some bearing steels; e.g., vacuum-melted steels, and improved processing techniques, permit manufacture of bearings which offer endurance greater than that calculated by the RATING LIFE formula. Section 1.3 recommends methods to incorporate life adjustment factors for bearing materials into the life formula.

Bearing life calculated according to the RATING LIFE formula assumes proper application conditions. If lubrication is not adequate, loading unusual, or temperatures extreme, the ability of the bearing to attain or exceed the RATING LIFE is seriously impaired. Section 1.4 contains some basic recommendations concerning the effect of unusual application conditions on bearing life.

1.2 LIFE ADJUSTMENT FACTOR FOR RELIABILITY.

Bearing life estimated in accordance with this standard is RATING LIFE; i.e., the life associated With 90% reliability or the life which 90% of a group of apparently identical bearings in a given application under similar conditions of load and speed will complete or exceed. While RATING LIFE has proven useful over a period of years as a criterion of performance, some applications require definition of life at reliabilities greater than 90%.

To determine bearing life with reliabilities other than 90% (as previously calculated from the Selection Procedure) the L_{10} must be adjusted by a factor a_1 , such that $L_n = a_1 \times L_{10}$.

The life adjustment factors for reliability of Table 11 are recommended.

Table 11: Life Adjustment Factors For Reliability

Reliability %	L_n	Life Adjustment Factor for Reliability a_1
90	L_{10}	1
95	L_5	0.62
96	L_4	(Rating Life)
97	L_3	
98	L_2	0.33
99	L_1	0.21

1.3 LIFE ADJUSTMENT FACTOR FOR MATERIAL. For bearings, which incorporate improved materials and processing, the L_{10} (as previously calculated in Selection Procedure) must be adjusted by a factor a_2 . Factor a_2 depends upon steel analysis, metallurgical processing, forming methods, heat treatment and manufacturing methods in general.

Bearings fabricated from consumable vacuum remelted steels and certain other special analysis steels have demonstrated extraordinarily long endurance. These steels are of exceptionally high quality, and bearings fabricated from these are usually considered special manufacture. As such, a_2 values will not be specified for such steels in this discussion. Generally, a_2 values for such steels can be obtained from the bearing manufacturer.

1.4 LIFE ADJUSTMENT FACTOR FOR APPLICATION

CONDITIONS. Application conditions which affect bearing life include:

1. Lubrication.
2. Load distribution (including effects of clearance, misalignment, housing, and shaft stiffness, type of loading and thermal gradients).
3. Temperature.

Consideration of (1.2) and (1.3) above requires analytical and experimental techniques beyond the scope of this discussion, therefore, the user should consult the bearing manufacturer for evaluations and recommendations.

In most bearing applications, lubrication serves to separate the rolling surfaces; i.e., rolling elements and raceways; to reduce retainer-rolling elements and retainer-land friction and sometimes to act as a coolant to remove frictional heat generated by the bearing.

If all limitations and qualifications specified by this discussion are observed, then the life adjustment application factor for bearings which are adequately lubricated is 1; i.e., $a_3=1$.

Operating conditions where a_3 might be less than 1 include:

- a. exceptionally low values of N_{dm} (rpm times bore diameter in mm); e.g., N_{dm} 1000.
- b. Lubricant viscosity less than 20.4 centistokes (100 SSU) at operating temperature.
- c. Excessively high operating temperatures. When a_3 is less than 1, it may not be assumed that the deficiency in lubrication can be overcome by using an improved steel.

* C = Basic Load Rating computed in accordance with ABMA-ANSI Standards.
 $C_{90} = C \times .259$

1.5 FACTOR COMBINATIONS. A fatigue life formula embodying the foregoing life adjustment factors is:

For Ball Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left(\frac{C^*}{P} \right)^3 \times \frac{(16,667)}{\text{RPM}}$$

For Tapered Roller Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left(\frac{C_{90}^*}{P} \right)^{10/3} \times \frac{(1,500,000)}{\text{RPM}}$$

For Spherical Roller Bearings:

$$L_n = a_1 \times a_2 \times a_3 \left(\frac{C^*}{P} \right)^{10/3} \times \frac{(16,667)}{\text{RPM}}$$

Indiscriminate application of the life adjustment factors in this formula may lead to serious over-estimation of bearing endurance, since fatigue life is only one criterion for bearing selection.

Care must be exercised to select bearings which are of sufficient size for the application. Undersizing of shaft and housing structures by using bearings which appear adequate from a life standpoint could lead to misalignment and fitting problems which could invalidate the formulas in this discussion.

V-Belt Drive Formulas

V-belt tensioning In cases where tensioning of a drive effects belt pull and bearing loads, the following formulas may be used.

$$T_1 \cdot T_2 = 33,000 \left(\frac{HP}{V} \right)$$

where: T_1 = tight side tension, pounds
 T_2 = slack side tension, pounds
 HP = design horsepower
 V = belt speed, feet per minute

$$T_1 + T_2 = 33,000 (2.5-G) \left(\frac{HP}{GV} \right)$$

where: T_1 = tight side tension, pounds
 T_2 = slack side tension, pounds
 HP = design horsepower
 V = belt speed, feet per minute*
 G = arc of contact correction factor*

$$T_1/T_2 = \frac{1}{1-0.8G} \quad (\text{Also } T_1/T_2 = e^{K\theta})$$

where: T_1 = tight side tension, pounds
 T_2 = slack side tension, pounds
 G = arc of contact correction factor*
 e = base of natural logarithms
 K = .51230, a constant for V-belt drive design
 θ = arc of contact in radians

$$T_1 = 41,250 \left(\frac{HP}{GV} \right)$$

where: T_1 = tight side tension, pounds
 HP = design horsepower
 V = "belt speed, feet per minute
 G = arc of contact correction factor

$$T_2 = 33,000 (1.25-G) \left(\frac{HP}{GV} \right)$$

where: T_2 = slack side tension, pounds
 HP = design horsepower
 V = belt speed, feet per minute
 G = arc of contact correction factor

Belt Speed

$$V = \frac{(PD)(rpm)}{3.82} = (PD)(rpm)(.262)$$

where: V = belt speed, feet per minute
 PD = pitch diameter of sheave or pulley
 rpm = revolutions per minute of the same sheave or pulley

* See Table 12 at left

Table 12: Arc of Contact Correction Factors G and R

D-d C	Small Sheave Arc of Contact	Factor G	Factor R	D-d C	Small Sheave Arc of Contact	Factor G	Factor R
.00	180°	1.00	1.000	.80	133°	.87	.917
.10	174°	.99	.999	.90	127°	.85	.893
.20	169°	.97	.995	1.00	120°	.82	.866
.30	163°	.96	.989	1.10	130°	.80	.835
.40	157°	.94	.980	1.20	106°	.77	.800
.50	151°	.93	.968	1.30	99°	.73	.760
.60	145°	.91	.954	1.40	91°	.70	.714
.70	139°	.89	.937	1.50	83°	.65	.661

D = Diam. of large sheave. d = Diam. of small sheave
 C = Center distance

Table 13: Allowable Sheave Rim Speed

Sheave Material	Rim Speed in Feet per Minute
Cast Iron	6,500
Ductile Iron	8,000
Steel	10,000

Note: Above rim speed values are maximum for normal considerations. In some cases these values may be exceeded. Consult factory and include complete details of proposed application.

Bearing Load Calculations

To find actual bearing loads it is necessary to know machine component weights and values of all other forces contributing to the load. Sometimes it becomes desirable to know the bearing load

imposed by the V-belt drive alone. This can be done if you know bearing spacing with respect to the sheave center and shaft load and apply it to the following formulas:

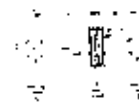


Overhung Sheave

$$\text{Load at B, lbs.} = \frac{\text{Shaft Load} \times (a + b)}{a}$$

$$\text{Load at A, lbs} = \text{Shaft Load} \times \frac{b}{a}$$

Where: a and b = Spacing, inches



Sheave Between Bearings

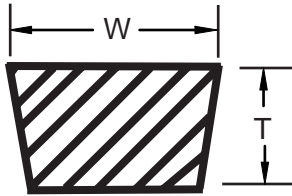
$$\text{Load at D, lbs.} = \frac{\text{Shaft Load} \times c}{c + d}$$

$$\text{Load at C, lbs} = \frac{\text{Shaft Load} \times d}{c + d}$$

Where: c and d = Spacing, inches

Nominal V-Belt Cross Sections

Table 14: Nominal V-Belt Cross Sections



Belt Section	Industry Standard Description	Width W, in Inches	Thickness T, in Inches
3L	FHP, Single	3/8	7/32
4L		1/2	5/16
5L		21/32	3/8
3V	Narrow	3/8	5/16
5V		5/8	17/32
8V		1	29/32
A	Classical Multiple	1/2	5/16
B		21/32	13/32
C		7/8	17/32
D		1-1/4	3/4

Conveyor Belt FPM to RPM

Pulley Dia. Inches	FPM												
	100	150	200	250	300	350	400	500	600	700	800	900	1000
6	64	95	127	159	191	223	254	318	382	445	509	573	636
8	48	72	95	119	143	167	191	239	286	334	382	429	477
10	38	57	76	95	115	134	153	191	229	267	305	344	382
12	32	48	64	80	95	111	127	159	191	223	254	286	318
14	27	41	55	68	82	95	109	136	164	191	218	245	273
16	24	36	48	60	72	83	95	119	143	167	191	215	239
18	21	32	42	53	64	74	85	106	127	148	170	191	212
20	19	29	38	48	57	67	76	95	115	134	153	172	191
24	16	24	32	40	48	56	64	80	95	111	127	143	159
30	13	19	25	32	38	45	51	64	76	89	102	115	127
36	11	16	21	27	32	37	42	53	64	74	85	95	106
42	9	14	18	23	27	32	36	45	55	64	73	82	91
48	8	12	16	20	24	28	32	40	48	56	64	72	80
54	7	11	14	18	21	25	28	35	42	49	57	64	71
60	6	10	13	16	19	22	25	32	38	45	51	57	64

For values not shown use formula below:

$$SFM = .2618 \times D \times RPM$$

SFM = Surface feet Per Minute

D = Pulley Diameter, Inches

RPM = Revolutions per Minute

Table 15: Material Characteristics

MATERIAL	DENSITY (LB/FT3)	ANGLE OF REPOSE (DEG)	RECOMMENDED MAXIMUM INCLINATION (DEG)	MATERIAL	DENSITY (LB/FT3)	ANGLE OF REPOSE (DEG)	RECOMMENDED MAXIMUM INCLINATION (DEG)
Alfalfa, Ground	16	45°		Corn, Shelled	45	25°	10
Alum, Lumpy	50 - 60	35°		Corn Sugar	30	35°	
Alum, Pulverized	45 - 50	35°		Corn Grits	40 - 45	35°	
Alumina	60	30°	10-12	Cornmeal	32- 40	35°	22
Aluminum Oxide	70 - 120	30°		Cottonseed, Dry, De-Linted	35	35°	16
Ammonium Sulphate	45 - 60	45°		Cottonseed, Dry, Not De-Linted	18- 25	45°	19
Asbestos, Shredded	20 - 25	45°		Cottonseed, Cake, Lumpy	40- 45	35°	
Ashes, Dry	35 - 40	45°		Cottonseed, Hulls	12	45°	
Ashes, Wet	45 - 50	45°		Cottonseed, Meal	35- 40	35°	22
Ashes, Soft Coal	35 - 45	40°		Cottonseed, Meats	40	35°	
Asphalt, Crushed	45	35°		Cryolite	90-110	35°	
Bagasse	7.50	45°		Cullet	80-120	35°	20
Bakelite, Powder	30 - 40	45°		Diatomaceous Earth	11- 14	35°	
Baking Powder	40 - 50	35°		Dolomite, Lumpy	90-100	35°	22
Bark, Wood Refuse	10 - 20	45°	27	Dolomite, Pulverized	46	40°	
Barley	38	25°	10-15	Earth, Dry*	70- 80	35°	20
Basalt	80 - 120	25°		Earth, Moist	75-110	40°	23
Bauxite, Crushed	75 - 85	35°	20	Earth, Fullers Dry	30- 35	23°	20
Beans, Castor, Whole	30 - 45	25°	8-10	Emery	225	25°	
Beans, Cocoa	30 - 45	35°		Epsom Salt	40- 50	35°	
Beans, Navy	50	25°		Feldspar, Lumps	70-100	35°	17
Beans, Whole	45	45°		Feldspar, Dust	80-100	40°	
Bentonite, Crude	35 - 40	45°		Fish, Meal	35- 40	40°	
Bentonite, Fine	50 - 60	45°		Fish, Scrap	40- 50	0°	
Bones, Pulverized	50 - 60	45°		Flaxseed, Whole	45	25°	12
Borax, Fine	50 - 55	35°		Flaxseed, Meal	25	35°	
Borax Coarse	60 - 70	35°		Flour, Wheat	35- 40	45°	21
Bran	16	35°		Flue Dust, Dry	30- 40	20°	
Brewers Grain, Dry	25 - 35	45°		Fluorspar, Dust	85- 95	45°	
Brewers Grain, Wet	55 - 60	45°		Fluorspar, Lumps	80-110	45°	
Buck Wheat	40	25°	11-13	Foundry, Refuse	60- 80	35°	
Calcium, Carbide	70 - 80	35°		Foundry Sand, Loose	80- 90	35°	
Carbon Black, Pellets	25	25°		Foundry Sand, Rammed	100-110	0°	
Carbon Black, Powder	5	35°		Galena	250	35°	
Cast Iron Chips	100 -120	45°		Garbage, Average	30	25°	
Cement, Clinker	75 - 90	35°		Glass, Batch Fiber	45 - 55	10°	
Cement, Portland	80 -100	35°	20-23	Glass, Batch Wool	80-100	35°	20-22
Chalk, Fine	65 - 75	45°		Glass, Broken	80-100	10°	
Chalk, Lumpy	80 - 95	45°		Glue, Animal, Flaked	35	25°	
Charcoal, Wood	15 - 30	35°	20-25	Glue, Vegetable, Powdered	40	35°	
Chromium Ore	125 - 140	35°		Gluten, Meal	39	35°	
Cinders, Coal	40	35°	20	Granite, Lumps	150 -170	25°	
Clay, Dry, Fine	100 - 120	35°	20-22	Graphite, Flakes	40	35°	
Clay, Dry, Lumpy	60 - 75	35°	18-20	Graphite, Powder	30	25°	
Coal, Anthracite, Coarse	60 - 70	35°	18	Graphite, Ore	65 - 75	35°	
Coal, Anthracite, Loose	50 - 60	30°	16	Grass Seed	10	35°	
Coal, Bituminous, Coarse	50 - 60	35°	18	Gravel, Dry	90-100	35°	15-17
Coal, Bituminous, Loose	45 - 50	35°	16	Gravel, Wet	100-120	35°	
Cocoa Nibs	35 - 40	35°		Gypsum, Lumps	90-100	35°	15
Coconut, Shredded	20 - 25	45°		Gypsum, Ground	75- 80	35°	21
Coffee, Fresh Beans	30 - 40	35°	10-15	Hay, Loose	5	0°	
Coffee, Roasted Beans	22 - 30	25°		Hay, Pressed	25	0°	
Coke, Loose	23 - 32	35°	18	Hominy	35- 50	35°	
Coke Pulverized	25 - 35	45°	20-22	Hops, Spent, Dry	25- 35	45°	
Coke, Petroleum Calcinated	35 - 45	35°	20	Hops, Spent, Wet	55- 60	45°	
Concrete, Cinder	112	0°	12-30	Ice, Crushed	35- 40	20°	
Concrete, Gravel & Sand	150	0°		Ilmenite Ore	140-160	35°	
Copper Ore	120 - 150	35°	20	Iron Ore	120-180	35°	18-20
Copper Sulfate	75 - 85	30°	17	Iron Ore, Pellets	120-140	35°	13-15
Cork, Ground	5 - 15	45°		Iron Sulphate	50- 75	35°	
Corn, On Cob	45	0°		Iron Sulfide	120-140	35°	

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Table 16: Material Characteristics

MATERIAL	DENSITY (LB/FT ³)	ANGLE OF REPOSE (DEG)	RECOM-MENDED MAXIMUM INCLINATION (DEG)	MATERIAL	DENSITY (LB/FT ³)	ANGLE OF REPOSE (DEG)	RECOM-MENDED MAXIMUM INCLINATION (DEG)
Kaolin, Clay	60	35°	19	Rubber, Pellets	50 - 55	35°	22
Lactose	30	35°		Rubber, Ground Scrap	25 - 35	45°	18
Lead Ore, Crushed	180 - 270	30°		Rye	42 - 45	25°	8
Lead Oxides	60 - 150	40°		Rye Meal	35 - 40	20°	
Lead Sulfate	170 - 190	45°		Salt Cake	80 - 95	30°	21
Lead Sulfide	240 - 260	35°		Salt, Coarse"	45 - 55	35°	18-22
Lignite, Air Dried	45 - 55	35°		Salt, Fine"	70 - 80	35°	11
Lime, Ground	60 - 65	40°	23	Sand, Wet	110 - 130	45°	20-22
Lime, Hydrated	40	40°	21	Sand, Dry	90 - 110	35°	16-18
Lime, Pebble	30 - 40	40°	17	Sand, Loose, Foundry	80 - 100	35°	22
Limestone, Loose	80 - 100	35°	20	Sand, Foundry, Rammed	100 - 110	0°	24
Limestone, Pulverized	85 - 90	45°	18	Sandstone	80 - 90	35°	
Linseed, Whole	45 - 50	25°		Sawdust	10 - 25	30°	22
Linseed, Meal	30 - 40	35°	20	Scale, Rolling Mill	125 - 160	45°	
Magnesium Chloride	30 - 35	40°		Sewage Sludge, Dry	45 - 55	35°	
Magnesium Sulfate	40 - 60	35°		Sewage Sludge, Wet	50 - 60	35°	
Malt, Dry	25 - 30	30°		Shale, Broken	90 - 100	25°	
Malt, Wet	60 - 65	45°		Shale, Crushed	85 - 90	40°	22
Malt, Meal	35 - 40	35°		Silica Gel, Dry	45	35°	
Manganese Ore	125 - 140	40°		Slag, Blast Furnace	80 - 90	25°	10
Manganese Oxide	120	35°		Slag, Granular, Dry	60 - 65	25°	13-16
Manganese Sulfate	70	35°		Slag, Granular, Wet	90 - 100	45°	20-22
Manure	25	0°		Slate, Ground	80 - 90	30°	15
Marble, Crushed	80 - 95	35°		Slate, Lumps	85 - 95	0°	
Marl	80	35°		Snow, Compacted	15 - 50	0°	
Mica, Flakes	20	20°		Soap	10 - 25	35°	
Mica, Ground	15	35°	23	Soda Ash, Briquettes	50	20°	7
Milk, Dried, Flaked	5	35°		Soda Ash, Heavy	55 - 65	30°	19
Milk, Malted	25 - 35	45°		Soda Ash, Light	20 - 35	35°	22
Milk, Powdered	20 - 30	40°		Sodium Aluminum, Ground	72	35°	
Milo Maize	55 - 60	35°		sodium Nitrate, Ground	70 - 80	24°	11
Molybdenum Ore	100 - 110	40°		Sodium Phosphate	50 - 65	35°	
Mortar, Wet	150	0°		soybeans, Cracked	30 - 40	35°	15-18
Niacin	35	35°		soybeans, Whole"	45 - 50	25°	12-16
Nickel-Cobalt Sulfate Ore	80 - 150	35°		starch, Powdered	25 - 45	25°	12
Oats	25 - 35	25°	10	steel, Chips	100 - 150	35°	18
Oats, Rolled	20	35°		steel, Turnings	60 - 120	45°	
Oil Cake	50	45°		sugar, Cane, Raw	55 - 65	45°	
Oxalic Acid Crystals	60	35°		sugar, Granulated, Dry	50 - 55	35°	
Oyster Shells, Ground	50 - 60	35°		sugar, Granulated, Wet	55 - 65	40°	
Oyster Shells, Whole	80	35°		Sugar Cane, Knifed	15 - 18	45°	
Paper Pulp Stock	40 - 60	20°		Sulphur, Lumps	80 - 85	35°	
Peanuts, Shelled	35 - 45	35°		Sulphur, Dust	50 - 70	35°	
Peanuts, Not Shelled	15 - 20	35°		Saonite, Pellets	120 - 140	35°	13-15
Peas, Dried	45 - 50	0°		Salc, Granulated	50 - 70	20°	
Phosphate, Fertilizer	50 - 60	35°	30	Titanium Dioxide	140	35°	
Phosphate, Rock, Crushed	60 - 100	35°	25	Titanium Sponge	60 - 70	45°	
Potash	70 - 80	30°		Tobacco, Leaves	14	45°	
Potassium Chloride	120 - 130	35°		Tobacco, Scraps	15 - 25	45°	
Potassium Nitrate	75 - 80	25°		Tobacco, Stems	15	45°	
Potassium Sulfate	45	45°		Traprock, Crushed	95 - 110	35°	
Potatoes, White"	48	0°		Traprock, Lumps	100 - 110	35°	
Pumice, Ground	40 - 45	45°		Turf	20 - 30	0°	
Pyrites, Lumps	135 - 145	25°		Walnut, Shells	35 - 45	35°	
Pyrites, Pellets	120 - 130	35°		Wheat	48	25°	12
Quartz, Lumps	95 - 100	25°		Wheat, Cracked	40 - 45	35°	
Quartz, Sand	70 - 80	25°		Wheat Germ, Dry	20 - 30	25°	27
Rice, Hulled	45 - 50	20°	8	Wood Chips	10 - 30	45°	22
Rice, Rough	35	35°		Zinc Ore, Granular	160	35°	
Rice, Grits	40 - 45	35°		Zinc Oxide	10 - 35	45°	
Rock, Crushed	100 - 150	30°					

Shafting

Table 17: Typical Commercial Shaft Tolerances

Shaft Size	Plus	Minus
Up to 1-1/2"	.000	.002
Over 1-1/2 to 2-1/2"	.000	.003
Over 2-1/2 to 4"	.000	.004
Over 4 to 6"	.000	.005
Over 6 to 8"	.000	.006
Over 8 to 9"	.000	.007
Over 9"	.000	.008

Table 18: Shaft Tolerances

Shaft Size	Tolerance, Inches
Up to 1-1/2"	+0.0000 -.0005"
1-5/8 to 4"	+0.000 -.001"
4-7/16 to 6"	+0.000 -.0015"
6-7/16 to 8"	+0.000 -.002"

Table 18 lists the recommended tolerances for all set-screw locking, eccentric locking and D-LOK locking ball and roller bearings

Table 19: Shaft Tolerances

Shaft Size	Tolerance, Inches
Up to 1-1/2"	+0.000 -.002"
1-9/16 to 2-1/2"	+0.000 -.003"
2-5/8 to 4"	+0.000 -.004"
4-3/16 to 6"	+0.000 -.005"
6-7/16" and above	+0.000 -.006"

Table 19 list the recommended tolerances for all tapered adapter sleeve ball and roller bearings

Standard Shafting-Table 17 indicates standard shafting is cold drawn in the smaller sizes and turned and polished in the larger diameters. It has a smooth surface, is commercially straight and is readily machinable; suitable and recommended for general power transmission and material handling service.

Special Shafting-While standard shafting is suitable for most installations, special shafting is sometimes required for certain chemical, temperature or physical requirements. Such materials as high carbon steel, alloy steel, stainless steel, brass, Monel metal, etc., can be furnished plain or heat treated. Stepped, flanged, hollow or other special forms are available.

Special shafting should be avoided in favor of standard shafting wherever possible because special shafting is usually considerably more expensive and requires a greater length of time to obtain, which is an especially important consideration should quick replacement ever become necessary.

Ordering Shafting-Standard shafting can be obtained from most supply houses and dealers who handle power transmission material.

Turning Down Shaft Ends-When necessary to turn down shaft ends, use as large a fillet as possible to keep the stress concentration to a minimum. The radius of this fillet should preferably be not less than the difference in the two diameters joined by the fillet. The fillet should be finished and polished as smoothly as possible to avoid scratches which might start cracks and failure of the shaft by fatigue.

Selection of Shaft Diameters

Table 20 thru Table 23 inclusive can be used to find approximate shaft diameter for various service conditions. For greater accuracy use chart under heading "Combined Torsion and Bending of Standard Shafts" (PT14-19).

Tables and chart are based upon a safe shear stress of 6,000 pounds per square inch for standard keyseated shafting. Be generous in the selection of shaft diameters as

liberal diameters not only reduce deflection and vibration but also generally increase bearing life.

When necessary to use other than standard shafting, find the required diameter for standard shafting as outlined above and multiply by proper factor shown in Table 24 , under heading "Factors for Shafting Other than Standard Shafting."(PT14-18).

Selection of Shaft Diameters (Cont'd)

Table 20: No Bending Moment (Shafts without pulleys, sprockets or gears - Torsion only)

Shaft Size	Horse Power at Various Revolutions per Minute																		
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	500	600	700	800	900
15/16	0.30	0.70	1.10	1.50	1.90	2.30	2.60	3	3.40	3.80	4.20	4.60	5.30	6.10	7.70	9.20	10.70	12.30	13.80
1-3/16	0.70	1.50	2.30	3.10	3.90	4.60	5.40	6.20	7	7.80	8.60	9.30	10.90	12.50	15.60	18.70	21.90	25	28.10
1-7/16	1.30	2.70	4.10	5.50	6.90	8.30	9.70	11.10	12.40	13.80	15.20	16.60	19.40	22.20	27.70	33.30	38.80	44.40	49.90
1-11/16	2.20	4.40	6.60	8.90	11.20	13.40	15.70	17.90	20.20	22.40	24.70	26.90	31.40	35.90	44.90	53.80	62.80	71.80	80.80
1-15/16	3.30	6.70	10.10	13.50	16.90	20.30	23.70	27.10	30.50	33.90	37.30	40.70	47.50	54.30	67.90	81.50	95.10	108	122
2-3/16	4.90	9.80	14.60	19.50	24.40	29.30	34.20	39.10	44	48.90	53.80	58.60	68.40	78.20	97.80	117	136	156	176
2-7/16	6.70	13.50	20.20	27	33.80	40.60	47.30	54.10	60.90	67.60	74.40	81.20	94.70	108	135	162	189	216	243
2-11/16	9	18.10	27.10	36.20	45.30	54.40	63.40	72.50	81.60	90.70	99.70	108	126	145	181	217	253	290	326
2-15/16	11.80	23.60	35.40	47.30	59.20	71	82.90	94.70	106	118	130	142	165	189	236	284	331	379	426
3-7/16	19	37.90	57	75.90	94.90	113	132	151	170	189	208	227	265	303	379	455	531	607	683
3-15/16	28.50	57	85.50	114	142	171	199	228	256	285	313	342	399	456	570	684	798	912	1026
4-7/16	40.80	81.60	122	163	204	245	286	327	367	408	449	490	572	653	816	980	1143	1306	1470

Table 21: Limited Bending Moment (Pulleys, sprockets or gears near bearings. Ordinary line shafts.)

Shaft Size	Horse Power at Various Revolutions per Minute																		
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	500	600	700	800	900
15/16	0.20	0.50	0.70	1	1.20	1.50	1.70	2	2.30	2.50	2.80	3	3.50	4.10	5.10	6.10	7.10	8.20	9.20
1-3/16	0.50	1	1.50	2	2.60	3.10	3.60	4.10	4.70	5.20	5.70	6.20	7.30	8.30	10.40	12.50	14.60	16.70	18.80
1-7/16	0.90	1.80	2.70	3.70	4.60	5.50	6.40	7.40	8.30	9.20	10.10	11.10	12.90	14.80	18.50	22.20	25.90	29.60	33.30
1-11/16	1.40	2.90	4.30	5.90	7.40	8.90	10.40	11.90	13.40	14.90	16.40	17.90	20.90	23.90	29.90	35.90	41.90	47.90	53.90
1-15/16	2.20	4.50	6.70	9	11.30	13.60	15.80	18.10	20.40	22.60	24.90	27.20	31.70	36.20	45.30	54.40	63.40	72.50	81.60
2-3/16	3.20	6.50	9.70	13	16.30	19.50	22.80	26.10	29.30	32.60	35.80	39.10	45.60	52.20	65.20	78.30	91.30	104	117
2-7/16	4.50	9	13.50	18	22.50	27	31.60	36.10	40.60	45.10	49.60	54.10	63.20	72.20	90.20	108	126	144	162
2-11/16	6	12.10	18.10	24.20	30.20	36.30	42.30	48.40	54.40	60.50	66.50	72.60	84.70	96.80	121	145	169	193	217
2-15/16	7.90	15.80	23.70	31.60	39.50	47.40	55.30	63.20	71.10	79	86.90	94.80	110	126	158	189	221	252	284
3-7/16	12.60	25.30	37.90	50.60	63.30	75.90	88.60	101	113	126	139	151	177	202	253	303	354	405	455
3-15/16	19	38	57	76.10	94.10	114	133	152	171	190	209	228	266	304	380	456	532	608	685
4-7/16	27	54	81	108	136	163	190	217	245	272	299	326	381	435	544	653	762	871	980
4-15/16	37	75	112	150	187	225	262	300	337	375	412	450	525	600	750	900	1050	1200	1350
5-7/16	50	100	150	200	250	300	350	400	451	501	551	601	701	801	1002	1202	1403	1603	1804
5-15/16	65	130	195	261	326	391	456	522	587	652	717	783	913	1044	1305	1566	1827	2088	2349
6-1/2	85	171	256	342	427	513	598	684	769	855	940	1026	1197	1368	1710	2052	2394	2736	3078

Selection of Shaft Diameters (Cont'd)

Table 22: Heavy Bending Moment. (Use for main or important shafts.)

Shaft Size	Horse Power at Various Revolutions per Minute																		
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	500	600	700	800	900
1-11/16	0.80	1.70	2.50	3.50	4.40	5.30	6.20	7.10	8	8.90	9.80	10.70	12.50	14.30	17.90	21.50	25.10	28.70	32.30
1-15/16	1.30	2.70	4	5.40	6.70	8.10	9.50	10.80	12.20	13.50	14.90	16.30	19	21.70	27.10	32.60	38	43.50	48.90
2-3/16	1.90	3.90	5.80	7.80	9.70	11.70	13.70	15.60	17.60	19.50	21.50	23.40	27.40	31.30	39.10	46.90	54.80	62.60	70.40
2-7/16	2.70	5.40	8.10	10.80	13.50	16.20	18.90	21.60	24.30	27	29.70	32.40	37.90	43.30	54.10	64.90	75.80	86.60	97.40
2-11/16	3.60	7.20	10.80	14.50	18.10	21.70	25.40	29	32.60	36.20	39.90	43.50	50.80	58	72.50	87.10	101	116	130
2-15/16	4.70	9.40	14.10	18.90	23.60	28.40	33.10	37.90	42.60	47.30	52.10	56.80	66.30	75.80	94.70	113	132	151	170
3-7/16	7.50	15.10	22.60	30.30	37.90	45.50	53.10	60.70	68.30	75.90	83.50	91.10	106	121	151	182	212	243	273
3-15/16	11.40	22.80	34.20	45.60	57	68.40	79.90	91.30	102	114	125	136	159	182	228	273	319	365	410
4-7/16	16.30	32.60	48.90	65.30	81.60	98	114	130	147	163	179	196	228	261	326	392	457	522	588
4-15/16	22.50	45	67.50	90	112	135	157	180	202	225	247	270	315	360	450	540	630	720	810
5-7/16	30	60	90	120	150	180	210	240	270	300	330	360	420	480	601	721	841	961	1082
5-15/16	39	78	117	156	195	234	273	313	352	391	430	469	547	626	782	939	1095	1252	1409
6-1/2	51	102	153	205	256	308	359	410	462	513	564	616	718	821	1027	1232	1437	1643	1848
7	64	128	192	256	320	384	448	512	577	641	705	769	897	1026	1282	1539	1795	2052	2308
7-1/2	78.50	157	235	315	394	473	552	631	709	788	867	946	1104	1262	1577	1893	2208	2524	2839
8	95.50	191	286	382	478	574	670	765	861	957	1053	1148	1340	1531	1914	2297	2680	3063	3446
8-1/2	114	229	343	459	574	688	803	918	1033	1148	1263	1377	1607	1837	2296	2755	3215	3674	4133
9	136	272	408	545	681	817	954	1090	1226	1363	1499	1635	1908	2181	2726	3271	3816	4362	4907
9-1/2	160	320	480	641	801	961	1122	1282	1442	1603	1763	1923	2244	2565	3206	3847	4488	5130	5771
10	186	373	559	747	934	1121	1308	1495	1682	1869	2056	2243	2617	2991	3739	4487	5235	5983	6731

Table 23: Severe Conditions (Heavy shock loads. Excessively tight belts. long clutch sleeves.)

Shaft Size	Horse Power at Various Revolutions per Minute																		
	25	50	75	100	125	150	175	200	225	250	275	300	350	400	500	600	700	800	900
1-11/16	0.4	0.8	1.2	1.7	2.2	2.6	3.1	3.5	4	4.4	4.9	5.3	6.2	7.1	8.9	10.7	12.5	14.3	16.10
1-15/16	0.6	1.3	2	2.7	3.3	4	4.7	5.4	6.1	6.7	7.4	8.1	9.5	10.8	13.5	16.3	19	21.7	24.40
2-3/16	0.90	1.90	2.90	3.90	4.80	5.80	6.80	7.80	8.80	9.70	10.70	11.70	13.70	15.60	19.50	23.40	27.40	31.30	35.20
2-7/16	1.30	2.70	4	5.40	6.70	8.10	9.40	10.80	12.10	13.50	14.80	16.20	18.90	21.60	27	32.40	37.90	43.30	48.70
2-11/16	1.80	3.60	5.40	7.20	9	10.80	12.70	14.50	16.30	18.10	19.90	21.70	25.40	29	36.20	43.50	50.80	58	65
2-15/16	2.30	4.70	7	9.40	11.80	14.20	16.50	18.90	21.30	23.60	26	28.40	33.10	37.90	47.30	56.50	66	75.50	85
3-7/16	3.70	7.50	11.30	15.1	18.90	22.70	26.50	30.30	34.10	37.90	41.70	45.50	53	60.50	75.50	91	106	121	136
3-15/16	5.70	11.40	17.10	22.8	28.50	34.20	39.90	45.60	51	57	62.50	68	79.50	91	114	136	159	182	205
4-7/16	8.10	16.30	24.40	32.6	40.80	49	57	65	73.50	81.50	89.50	98	114	130	163	196	228	261	294
4-15/16	11.20	22.50	33.70	45	56	67.50	78.50	90	101	112	123	135	157	180	225	270	315	360	405
5-7/16	15	30	45	60	75	90	105	120	135	150	165	180	210	240	300	360	420	480	541
5-15/16	19.50	39	58.50	78	97.10	117	136	156	171	195	215	234	273	313	391	469	547	626	704
6-1/2	25.50	51	76.50	102.5	128	154	179	205	231	256	282	308	359	410	513	616	718	821	924
7	32	64.90	96	128	160	192	224	256	288	320	352	384	448	513	641	769	897	1026	1154
7-1/2	39.20	78.50	117	157	197	236	276	315	354	394	433	473	552	631	788	946	1104	1262	1419
8	47.70	95.50	143	191	239	287	335	382	430	478	526	574	670	765	957	1148	1340	1531	1723
8-1/2	57	114	171	229	287	344	401	459	516	574	631	688	803	918	1148	1377	1607	1837	2066
9	68	136	204	272	340	408	477	545	613	681	749	817	954	1090	1363	1635	1908	2181	2453
9-1/2	80	160	240	320	400	480	561	641	721	801	881	961	1122	1282	1603	1923	2244	2565	2885
10	93	186	279	373	467	560	654	747	841	934	1028	1121	1308	1495	1869	2243	2617	2991	3365

Caution - Be generous in the selection of shaft diameters as liberal diameters not only reduce deflection and vibration but also generally increase bearing life. See notes on next page.

Selection of Shaft Diameters (Cont'd)

Shaft Stiffness, Shaft Deflection-Standard shafting of adequate strength usually has a sufficiently large diameter to prevent excessive deflection in ordinary installations. It is wise to select shafting of generous diameter, as the greater the diameter, the greater the stiffness. A high tensile strength alloy shaft, although stronger, is no stiffer than a standard shaft of the same diameter.

While it is sometimes possible to use an alloy shaft of less diameter than a standard shaft of equal strength, this practice is usually inadvisable, as the deflection is increased.

Shafts carrying medium or long clutch sleeves should be especially generous.

High Speed Shafts-High speed sometimes causes shaft whipping or vibration. Making the shaft diameter generous and the distance between bearing centers short usually prevents this trouble.

Location of the bearings close to wheels and couplings is advisable whether the shaft is transmitting heavy or light loads.

The use of high tensile strength alloy shafting instead of standard shafting is of no help in preventing vibration as this will not improve the stiffness and deflection characteristics of the shaft.

Stepped Shafts- For a heavily loaded wheel, a shaft with a boss or enlarged section under the wheel and turned to a smaller diameter at the bearings often provides the most economical installation. The two different diameters should be joined by a very generous fillet, as otherwise a

dangerous concentration of stress will occur at the fillet. See heading-"Turning Down Shaft Ends." (PT14-15).

Shaft Keyseats-Plain keyseats are preferable to round end keyseats in respect to causing the least concentration of stress. However, round end keyseats are often used because of design and assembly requirements. Ends left by the milling cutter should not project into babbitted or bronze bushed bearing, but may project under the sleeve of any Dodge anti-friction bearings.

Shaft diameters obtained from the tables or chart allow for the use of keyseats.

Shaft Bearings-On ordinary line shafting, bearings are commonly spaced about eight feet centers. On large diameter shafts, the spacing may be somewhat greater.

Wheels and clutches should be located near bearings to avoid dangerous bending, deflection and vibration.

Bearings should be mounted on adequate supports so that accurate alignment may be maintained. Shafting misalignment may cause shaft or bearing failure.

Shaft Couplings-Where a rigid coupling is used, it is preferable to have a bearing fairly close. Where a cutoff coupling or a flexible coupling is used, locate bearings close to each end of the coupling.

Expansion of Shafting-Where changes in the length of the shaft due to changes in temperature are to be expected and the bearings are mounted on supporting structures other than steel, consideration must be given to expansion. For more detailed information see PT14-20, headed: "Expansion of Shafting."

Factors for Shafting Other Than Standard Shafting

When it is necessary to use other than standard shafting, multiply required diameter for standard shafting as found in the tables or chart by proper factor from Table 24 below.

Standard keyseated shafting, using a safe shear stress of 6,000 PSI is the basis of shafting tables and chart. For safe shear stress of other materials, use 1/10 of nominal ultimate tensile strength. For example, use 8,000 for C1045 and 10,000 for 4140 keyseated shafting. When definite physical specifications are known the least of 13.5% of minimum ultimate tensile strength and 22.5% of minimum

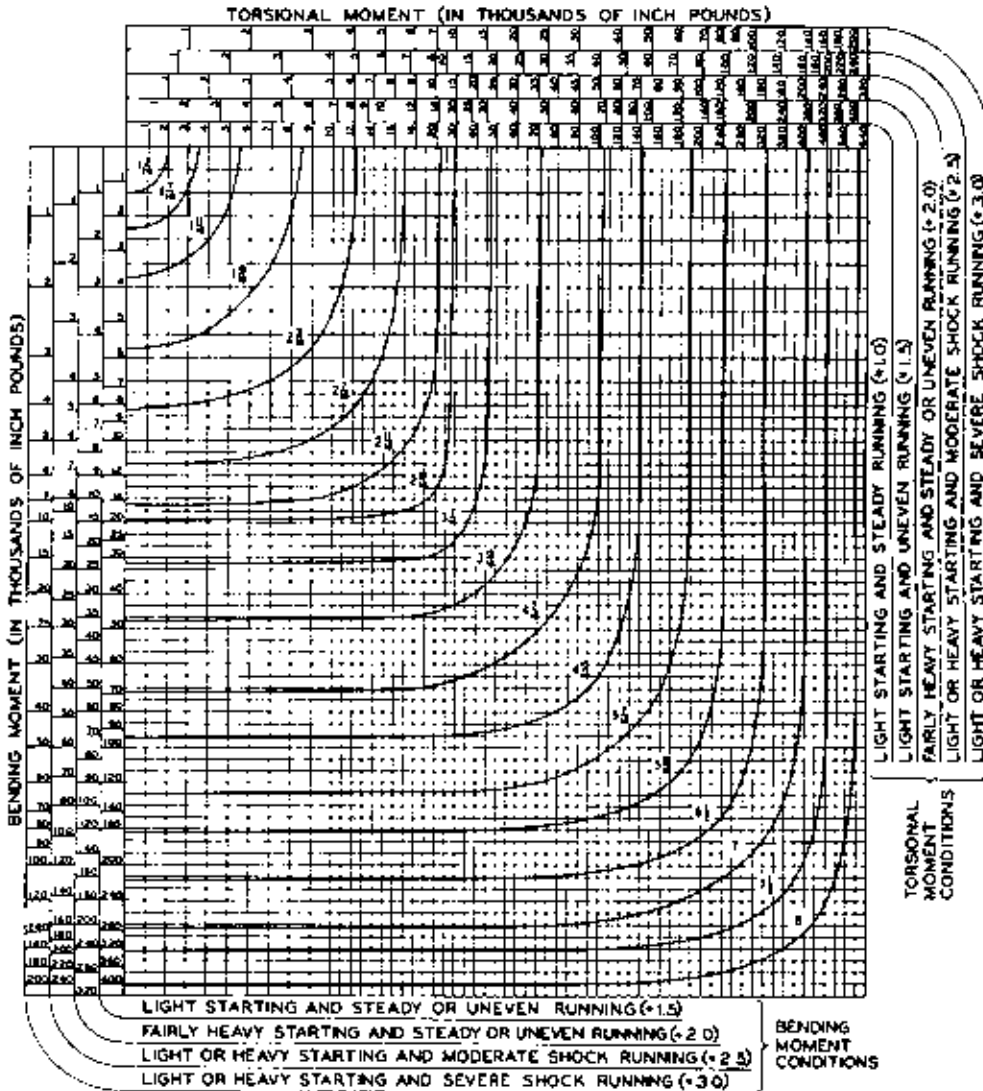
elastic limit in tension may be used for keyseated shafting; 18% and 30% respectively if not keyseated.

Caution-As the deflection of steel shafting depends upon the diameter and not upon the analysis of the steel, care should be exercised in the use of alloy shafting not to reduce the diameter unduly. Deflection should not be excessive and bearing capacities should be adequate. It is usually best to use standard shafting instead of a smaller diameter alloy shaft. The smaller alloy shaft may safely transmit the torque but often is undesirable in respect to deflection, vibration and bearing life.

Table 24: Shear Stress Factors

Safe Shear Stress	Factor	Safe Shear Stress	Factor	Safe Shear Stress	Factor	Safe Shear Stress	Factor	Safe Shear Stress	Factor
500	2.289	3,000	1.260	5,500	1.029	9,000	.874	14,000	.754
1,000	1.817	3,500	1.197	6,000	1.000	10,000	.843	15,000	.737
1,500	1.587	4,000	1.145	6,500	.974	11,000	.817	16,000	.721
2,000	1.442	4,500	1.101	7,000	.950	12,000	.794	17,000	.707
2,500	1.339	5,000	1.063	8,000	.909	13,000	.773	18,000	.693

Combined Torsion and Bending of Standard Shafts (Based on a Safe Shear Stress of 6,000 PS for Keyseated Shafting)



Example: Engine extension shaft driving single cylinder compressor, 15,000 pound-inches torsional moment, 14,000 pound-inches bending moment. Because of the heavy shock running load conditions use scales designated "Light or Heavy Starting and Severe Shock Running". Project a line down from 15,000 torsional moment. Project a line to the right from 14,000 bending

moment. The two lines intersect between 3-7/16 and 3-15/16 curves. Use 3-15/16 standard shafting.

Note: The above chart is based on ASME approved standard ASA-B17C-1927 withdrawn in 1954. If the latest shaft selection analysis is required refer to ANSI/ASME B106.1M-1985.

Note: If considering use of other shafting material refer to "Selection of Shaft Diameters" on page PT14-18.

Expansion of Shafting

Provision should be made to permit the free movement of shafting endwise due to temperature changes. One bearing should serve as an anchor bearing to locate the shaft endwise. All other bearings should permit the shaft to move freely endwise.

The anchor bearing is often located near an important wheel. On long shafts it should preferably be located near the center of the shaft to keep the expansion of the two ends to a minimum. If the anchor bearing is babbitted it should be fitted with collars. If it is an anti-friction bearing it should be of the non-expansion type, which is the designation of Dodge roller and ball bearings for use as anchor bearings.

All bearings on the shafting other than the anchor bearing should permit the shaft to move freely endwise. If babbitted there should be no thrust collars. If anti-friction these bearings should be of the expansion type.

Several shafts firmly fastened together expand as if one continuous shaft. An example of this is line shafting with flange couplings. If the expansion is considered excessive a long line shaft may be split into two or more sections, the sections being connected with expansion couplings.

Amount of Expansion to be provided for-

The amount of shafting expansion is given in Table 25 below. For example, with a 1005 temperature rise on a 150 ft. line shaft with the anchor bearing located 70 ft. from one end and 80 ft. from the other end the ends will move .529" and .605" respectively away from the anchor bearing. The

structure supporting the bearings may also expand but usually not as rapidly and as much as does the shafting. Several cases follow:

Case 1-Bearings supported on steel structures, where the shaft and structure are exposed to the same temperatures, will expand at the same rate. Expansion allowance is usually not required. If the shaft is exposed to a higher temperature than the support, allowances should be made. For example, if the shaft temperature is expected to change 80°, and the temperature of the structure 60°, the resulting movement between shafting and support ends will be equivalent to a 20° change.

Case 2-For bearings supported on wood, brick, or concrete walls, or on piers with foundations in the ground, the amount of expansion is usually considered negligible. Therefore, the full amount of shafting expansion as calculated in Table 25 below, may be accommodated.

Case 3-Certain structural designs have built-in flexibility. Where this is the case, expansion type bearings are not necessary.

Case 4-Short shafts with only two bearings are usually designed without compensation for expansion, if temperature variations are not excessive.

Advice on Expansion Problems-

Dodge power transmission engineers will gladly make recommendations concerning shafting expansion problems and the use of suitable bearings.

Table 25: Linear Expansion of Steel Shafting

Base on Expansion In Inches = 0.0000063 x 12 x Length in Feet x Temp. Increase in Degrees Fahrenheit

Length (Feet)	Temperature Increase-Degrees F.					Length (Feet)	Temperature Increase-Degrees F.				
	20°	40°	60°	80°	100°		20°	40°	60°	80°	100°
1	.0015	.0030	.0045	.0060	.0075	40	.060	.121	.181	.242	.302
2	.0030	.0060	.0091	.0121	.0151	45	.068	.136	.204	.272	.340
3	.0045	.0091	.0136	.0181	.0227	50	.076	.151	.227	.302	.378
4	.0060	.0121	.0181	.0242	.0302	55	.083	.166	.249	.333	.416
5	.0076	.0151	.0227	.0302	.0378	60	.091	.181	.272	.363	.454
6	.0091	.0181	.0272	.0363	.0454	65	.098	.197	.295	.393	.491
7	.0106	.0212	.0318	.0423	.0529	70	.106	.212	.317	.423	.529
8	.0121	.0242	.0363	.0484	.0605	75	.113	.227	.340	.454	.567
9	.0136	.0272	.0408	.0544	.0680	80	.121	.242	.363	.484	.605
10	.0151	.0302	.0454	.0605	.0756	85	.129	.257	.386	.514	.643
12	.0181	.0363	.0544	.0726	.0907	90	.136	.272	.408	.544	.680
14	.0212	.0423	.0635	.0847	.1058	95	.144	.287	.431	.575	.718
16	.024	.048	.073	.097	.121	100	.151	.302	.454	.605	.756
18	.027	.054	.082	.109	.136	110	.166	.333	.499	.665	.832
20	.030	.060	.091	.121	.151	120	.181	.363	.544	.726	.907
25	.038	.076	.113	.151	.189	130	.197	.393	.590	.786	.983
30	.045	.091	.136	.181	.227	140	.212	.423	.635	.847	1.058
35	.053	.106	.158	.212	.265	150	.227	.454	.680	.907	1.134

Weights and Properties of Steel Shafting

Table 26: Weight of Round Steel Shafting

Shaft Size	Weight of Shafting for Various Lengths in feet																Weight Per In.	
	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	22		24
3/4	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15	18	21	24	27	30	33	36	125
7/8	2.0	4.0	6.1	8.1	10.2	12.2	14.3	16.3	18.4	20	25	29	33	37	41	45	49	.170
*15/16	2.3	4.7	7.0	9.4	11.7	14.1	16.5	18.8	21.2	23	28	33	38	42	47	52	56	.195
1	2.7	5.3	8.0	10.6	13.3	16.0	18.6	21.3	24.0	27	32	37	43	48	53	59	64	.223
1-1/8	3.4	6.8	10.0	13.4	16.7	20.1	23.4	26.7	30.1	34	41	47	54	61	68	74	81	.281
*1-3/16	3.8	7.6	11.3	15.1	18.9	22.6	26.4	30.1	34.0	38	45	53	60	68	75	83	90	.314
1-1/4	4.2	8.3	12.5	16.7	20.8	25.0	29.2	33.3	37.5	42	50	58	67	75	83	92	100	.348
1-3/8	5.0	10.1	15.3	20.2	25.3	30.3	35.4	40.4	45.4	50	60	71	81	91	101	111	121	.420
*1-7/16	5.5	11	17	22	28	33	39	44	50	55	66	77	88	99	110	121	133	.460
1-1/2	6.0	12	18	24	30	36	42	48	54	60	72	84	96	108	120	132	144	.500
*1-11/16	7.6	15	23	30	38	46	53	61	68	76	91	107	122	137	152	167	183	.634
*1-15/16	10.0	20	30	40	50	60	70	80	90	100	120	140	161	181	201	221	241	.835
2	10.7	21	32	43	53	64	75	85	96	107	128	150	171	192	214	235	256	.890
*2-3/16	12.8	26	38	51	64	77	90	102	115	128	153	179	205	230	256	281	307	1.06
*2-7/16	15.9	32	48	63	79	95	111	127	143	159	190	222	254	286	317	349	381	1.32
2-1/2	16.7	34	50	67	83	100	117	134	150	167	200	234	267	301	334	367	401	1.39
*2-11/16	19.3	39	58	77	97	116	135	154	174	193	232	270	309	348	386	425	463	1.61
*2-15/16	23.0	46	69	92	115	138	161	184	208	231	277	323	369	415	461	507	553	1.92
*3-7/16	31.6	63	95	126	158	189	221	253	284	316	379	442	505	568	631	695	758	2.63
*3-15/16	41.4	83	124	166	207	248	290	331	373	414	497	580	662	745	828	911	994	3.45
*4-7/16	52.6	105	158	210	263	315	368	421	473	526	631	736	841	946	1052	1157	1262	4.38
*4-15/16	65.1	130	195	260	326	391	456	521	586	651	781	911	1041	1172	1302	1432	1562	5.42
*5-7/16	79.0	158	237	316	395	474	553	632	711	790	947	1105	1263	1421	1579	1737	1894	6.58
*6	96	192	288	384	481	577	673	769	865	961	1154	1346	1538	1730	1923	2115	2307	8.01

* Recommended Diameters These shaft diameters are recommended for use whenever possible as various transmission items such as couplings, collars, clutches, pulleys, etc., are carried in stock in these sizes, at least up to 3-15/16", in the principal cities throughout the United States.

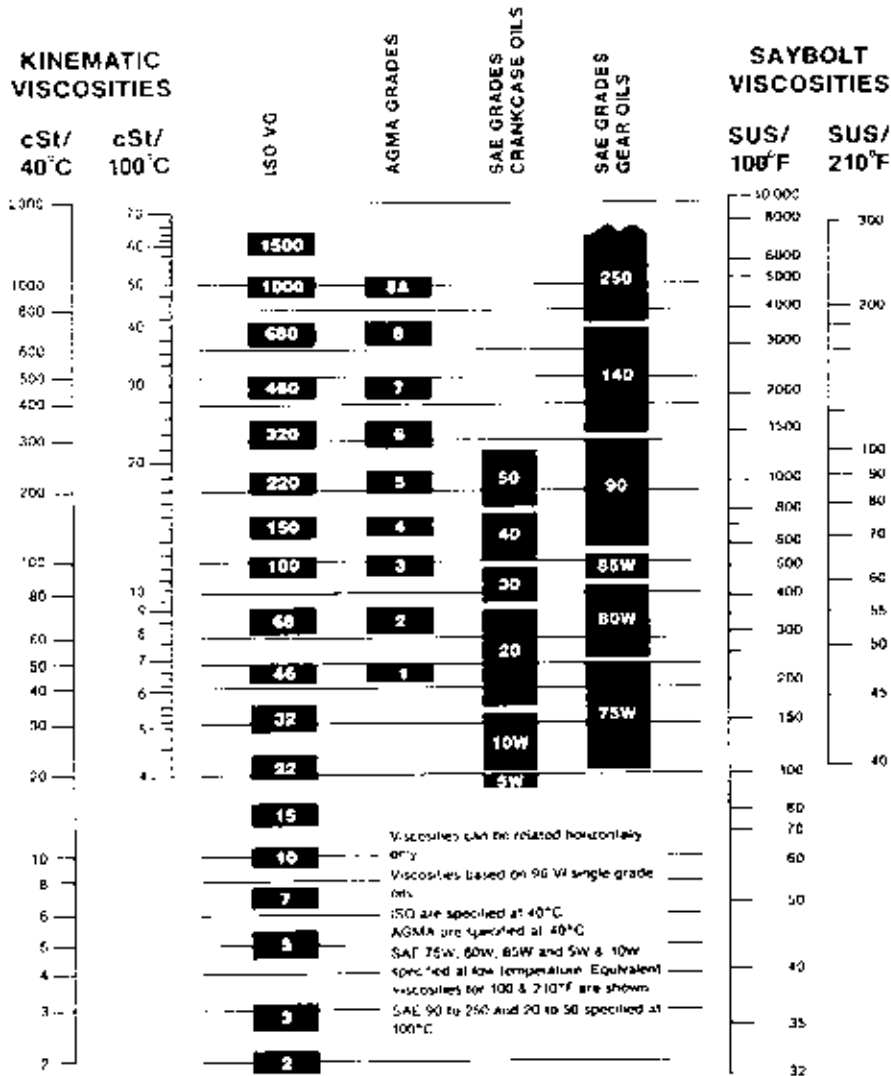
Table 27: Weight and Properties of Round Steel Shafting

Shaft Size	Weight per Inch	Section Modulus		Moment of Inertia		Shaft Size	Weight per Inch	Section Modulus		Moment of Inertia	
		Bending	Torsion	Bending	Torsion			Bending	Torsion	Bending	Torsion
1/16	.00087	.000024	.000048	.000001	.000002	2-7/16	1.32	1.422	2.844	1.733	3.466
1/8	.0035	.000192	.000383	.000012	.000024	2-1/2	1.39	1.534	3.068	1.918	3.835
3/16	.0078	.000647	.001294	.000061	.000121	2-9/16	1.46	1.652	3.304	2.117	4.233
1/4	.0139	.001534	.003068	.000192	.000383	2-5/8	1.53	1.776	3.552	2.331	4.661
5/16	.0217	.002966	.005932	.000468	.000936	2-11/16	1.61	1.906	3.811	2.561	5.122
3/8	.0313	.005177	.010354	.000971	.001941	2-3/4	1.68	2.042	4.084	2.807	5.615
7/16	.0425	.008221	.016442	.001798	.003597	2-13/16	1.76	2.184	4.368	3.071	6.143
1/2	.0556	.0123	.0245	.0031	.0061	2-7/8	1.84	2.333	4.666	3.354	6.707
9/16	.0703	.0175	.0349	.0049	.0098	2-15/16	1.92	2.489	4.977	3.655	7.310
5/8	.0868	.0240	.0479	.0075	.0150	3	2.00	2.651	5.301	3.976	7.952
11/16	.1051	.0319	.0638	.0110	.0219	3-1/16	2.08	2.820	5.640	4.318	8.636
3/4	.125	.0414	.0828	.0155	.0311	3-1/8	2.17	2.996	5.992	4.681	9.363
13/16	.1467	.0527	.1053	.0214	.0428	3-3/16	2.26	3.179	6.359	5.067	10.13
7/8	.1701	.0658	.1315	.0288	.0575	3-1/4	2.35	3.370	6.740	5.477	10.95
15/16	.1954	.0809	.1618	.0379	.0758	3-5/16	2.44	3.568	7.137	5.910	11.82
1	.22	.0982	.1963	.0491	.0982	3-3/8	2.53	3.774	7.548	6.369	12.74
1-1/16	.25	.1178	.2355	.0626	.1251	3-7/16	2.63	3.988	7.976	6.854	13.71
1-1/8	.28	.1398	.2796	.0786	.1573	3-1/2	2.72	4.209	8.419	7.366	14.73
1-3/16	.31	.1644	.3288	.0976	.1952	3-9/16	2.82	4.439	8.878	7.907	15.81
1-1/4	.35	.1917	.3835	.1198	.2397	3-5/8	2.92	4.677	9.353	8.476	16.95
1-5/16	.38	.2220	.4439	.1457	.2913	3-11/16	3.02	4.923	9.845	9.076	18.15
1-3/8	.42	.2552	.5104	.1755	.3509	3-3/4	3.13	5.177	10.35	9.707	19.41
1-7/16	.46	.2916	.5832	.2096	.4192	3-13/16	3.23	5.440	10.88	10.37	20.74
1-1/2	.50	.3313	.6627	.2485	.4970	3-7/8	3.34	5.712	11.42	11.07	22.14
1-9/16	.54	.3745	.7490	.2926	.5852	3-15/16	3.45	5.993	11.99	11.80	23.60
1-5/8	.59	.4213	.8425	.3423	.6846	4	3.56	6.283	12.57	12.57	25.13
1-11/16	.63	.4718	.9435	.3981	.7961	4-1/16	3.67	6.582	13.16	13.37	26.74
1-3/4	.68	.5262	1.052	.4604	.9208	4-1/8	3.78	6.891	13.78	14.21	28.42
1-13/16	.73	.5846	1.169	.5298	1.060	4-3/16	3.90	7.209	14.42	15.09	30.19
1-7/8	.78	.6471	1.294	.6067	1.213	4-1/4	4.01	7.536	15.07	16.01	32.03
1-15/16	.83	.7140	1.428	.6917	1.384	4-5/16	4.13	7.874	15.75	16.98	33.96
2	.89	.7854	1.571	.7854	1.571	4-3/8	4.25	8.221	16.44	17.98	35.97
2-1/16	.94	.8614	1.723	.8883	1.777	4-7/16	4.38	8.579	17.16	19.03	38.07
2-1/8	1.00	.9421	1.884	1.001	2.002	4-1/2	4.50	8.946	17.89	20.13	40.26
2-3/16	1.06	1.028	2.055	1.124	2.248	4-9/16	4.63	9.324	18.65	21.27	42.54
2-1/4	1.13	1.118	2.237	1.258	2.516	4-5/8	4.75	9.713	19.43	22.46	44.92
2-5/16	1.19	1.214	2.428	1.404	2.808	4-11/16	4.88	10.11	20.22	23.70	47.40
2-3/8	1.25	1.315	2.630	1.562	3.124	4-3/4	5.01	10.52	21.04	24.99	49.98

Table 27: Weight and Properties of Round Steel Shafting

Shaft Size	Weight per Inch	Section Modulus		Moment of Inertia		Shaft Size	Weight per Inch	Section Modulus		Moment of Inertia	
		Bending	Torsion	Bending	Torsion			Bending	Torsion	Bending	Torsion
4-13/16	5.15	10.94	21.88	26.33	52.66	13-1/2	40.50	241.50	483.10	1630	3261
4-7/8	5.28	11.37	22.75	27.72	55.45	13-3/4	42.00	255.20	510.40	1755	3509
4-15/16	5.42	11.82	23.63	29.17	58.35	14	43.60	269.40	538.80	1886	3771
5	5.56	12.27	24.54	30.68	61.36	14-1/4	45.10	284.10	568.20	2024	4048
5-1/16	5.70	12.74	25.48	32.24	64.49	14-1/2	46.70	299.30	598.60	2170	4340
5-1/8	5.84	13.22	26.43	33.86	67.73	14-3/4	48.40	315.00	630.10	2324	4647
5-3/16	5.98	13.70	27.41	35.55	71.09	15	50.00	331.30	662.70	2485	4970
5-1/4	6.13	14.21	28.41	37.29	74.58	15-1/4	51.70	348.20	696.40	2655	5310
5-5/16	6.27	14.72	29.44	39.10	78.20	15-1/2	53.40	365.60	731.20	2833	5667
5-3/8	6.42	15.25	30.49	40.97	81.94	15-3/4	55.10	383.60	767.10	3021	6041
5-7/16	6.58	15.78	31.57	42.91	85.82	16	56.90	402.10	804.20	3217	6434
5-1/2	6.72	16.33	32.67	44.92	89.84	16-1/4	58.70	421.30	842.50	3422	6846
5-9/16	6.88	16.90	33.79	46.99	93.99	16-1/2	60.50	441.00	882.00	3638	7277
5-5/8	7.03	17.47	34.95	49.14	98.29	16-3/4	62.40	461.40	922.70	3864	7728
5-11/16	7.19	18.06	36.12	51.36	102.70	17	64.20	482.30	964.70	4100	8200
5-3/4	7.35	18.66	37.33	53.66	107.30	17-1/4	66.10	503.90	1008	4346	8693
5-13/16	7.51	19.28	38.56	56.03	112.10	17-1/2	68.10	526.20	1052	4604	9208
5-7/8	7.67	19.91	39.82	58.48	117.00	17-3/4	70.00	549.10	1098	4873	9745
5-15/16	7.84	20.55	41.10	61.01	122.00	18	72.00	572.60	1145	5153	10306
6	8.00	21.21	42.41	63.62	127.20	18-1/4	74.00	596.70	1193	5445	10891
6-1/16	8.17	21.88	43.75	66.31	132.60	18-1/2	76.10	621.60	1243	5750	11500
6-1/8	8.34	22.56	45.12	69.09	138.20	18-3/4	78.10	647.10	1294	6067	12134
6-3/16	8.51	23.26	46.51	71.95	143.90	19	80.20	673.40	1347	6397	12794
6-1/4	8.68	23.97	47.94	74.90	149.80	19-1/4	82.40	700.30	1401	6741	13481
6-5/16	8.86	24.69	49.39	77.94	155.90	19-1/2	84.50	728.00	1456	7098	14195
6-3/8	9.03	25.44	50.87	81.08	162.20	19-3/4	86.70	756.30	1513	7469	14937
6-7/16	9.21	26.19	52.38	84.30	168.60	20	88.90	785.40	1571	7854	15708
6-1/2	9.39	26.96	53.92	87.62	175.20	20-1/4	91.10	815.20	1630	8254	16508
6-5/8	9.76	28.55	57.09	94.56	189.10	20-1/2	93.40	845.80	1692	8669	17339
6-3/4	10.10	30.19	60.39	101.90	203.80	20-3/4	95.70	877.10	1754	9100	18200
6-7/8	10.50	31.90	63.80	109.70	219.30	21	98.00	909.20	1818	9547	19093
7	10.90	33.67	67.35	117.90	235.70	21-1/4	100.40	942.10	1884	10009	20019
7-1/8	11.30	35.51	71.02	126.50	253.00	21-1/2	102.70	975.70	1951	10489	20978
7-1/4	11.70	37.41	74.82	135.60	271.20	21-3/4	105.10	1010	2020	10985	21970
7-3/8	12.10	39.38	78.76	145.20	290.40	22	107.60	1045	2091	11499	22998
7-1/2	12.50	41.42	82.84	155.30	310.60	22-1/4	110.00	1081	2163	12031	24061
7-5/8	12.90	43.52	87.05	165.90	331.90	22-1/2	112.50	1118	2237	12581	25161
7-3/4	13.30	45.70	91.40	177.10	354.20	22-3/4	115.00	1156	2312	13149	26298
7-7/8	13.80	47.95	95.89	188.80	377.60	23	117.60	1194	2389	13737	27473
8	14.30	50.27	100.50	201.10	402.10	23-1/4	120.10	1234	2468	14344	28687
8-1/8	14.70	52.66	105.30	213.90	427.90	23-1/2	122.70	1274	2548	14971	29941
8-1/4	15.10	55.13	110.30	227.40	454.80	23-3/4	125.40	1315	2630	15618	31236
8-3/8	15.60	57.67	115.30	241.50	483.00	24	128.00	1357	2714	16286	32572
8-1/2	16.10	60.29	120.60	256.20	512.50	24-1/4	130.70	1400	2800	16975	33951
8-5/8	16.50	62.99	126.00	271.60	543.30	24-1/2	133.40	1444	2888	17686	35372
8-3/4	17.00	65.77	131.60	287.70	575.50	24-3/4	136.20	1488	2977	18419	36838
8-7/8	17.50	68.63	137.30	304.50	609.10	25	138.90	1534	3068	19175	38350
9	18.00	71.57	143.10	322.10	644.10	25-1/4	141.70	1580	3161	19954	39907
9-1/8	18.50	74.59	149.20	340.30	680.70	25-1/2	144.50	1628	3256	20755	41511
9-1/4	19.00	77.70	155.40	359.40	718.70	25-3/4	147.40	1676	3352	21581	43163
9-3/8	19.50	80.89	161.80	379.20	758.40	26	150.30	1726	3451	22432	44864
9-1/2	20.10	84.17	168.30	399.80	799.60	26-1/4	153.20	1776	3552	23307	46614
9-5/8	20.60	87.54	175.10	421.30	842.60	26-1/2	156.10	1827	3654	24208	48415
9-3/4	21.10	90.99	182.00	443.60	887.20	26-3/4	159.00	1879	3758	25134	50268
9-7/8	21.70	94.54	189.10	466.80	933.60	27	162.00	1932	3865	26087	52174
10	22.20	98.17	196.30	490.90	981.70	27-1/2	168.10	2042	4083	28074	56148
10-1/4	23.40	105.72	211.40	541.80	1084	28	174.30	2155	4310	30172	60344
10-1/2	24.50	113.65	227.30	596.70	1193	28-1/2	180.50	2273	4545	32385	64771
10-3/4	25.70	121.96	243.90	655.50	1311	29	186.90	2394	4789	34719	69437
11	26.90	130.67	261.30	718.70	1437	29-1/2	193.40	2520	5041	37176	74351
11-1/4	28.10	139.78	279.60	786.30	1573	30	200.00	2651	5301	39761	79522
11-1/2	29.40	149.31	298.60	858.50	1717	30-1/2	206.80	2785	5571	42479	84957
11-3/4	30.70	159.26	318.50	935.70	1871	31	213.60	2925	5849	45333	90666
12	32.00	169.65	339.30	1018	2036	31-1/2	220.50	3069	6137	48329	96659
12-1/4	33.40	180.47	360.90	1105	2211	32	227.60	3217	6434	51472	102944
12-1/2	34.70	191.75	383.50	1198	2397	32-1/2	234.80	3370	6740	54765	109530
12-3/4	36.10	203.48	407.00	1297	2594	33	242.10	3528	7056	58214	116428
13	37.60	215.69	431.40	1402	2804	34	256.90	3859	7717	65597	131194
13-1/4	39.00	228.37	456.70	1513	3026	35	272.30	4209	8418	73662	147324

Viscosity Classification Equivalents



ISO VISCOSITY CLASSIFICATION SYSTEM

All industrial oils are graded according to the ISO Viscosity Classification System, approved by the International Standards Organizations (ISO). Each ISO viscosity grade number corresponds to the mid-point of viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.80-35.2, the midpoint of which is 32.

Rule-of-Thumb: The comparable ISO grade of a competitive product whose viscosity in SUS at 100°F is known can be determined by using the following conversion formula:

$$\text{SUS @ 100°F} \div 5 = \text{cSt @ 40°C}$$

English Standard Measures

Long Measure

- 1 mile = 1760 yards = 5280 feet.
- 1 yard = 3 feet = 36 inches.
- 1 foot = 12 inches.

Surveyor's Measure

- 1 mile = 8 furlongs = 80 chains.
- 1 furlong = 10 chains = 220 yards.
- 1 chain = 4 rods = 22 yards = 66 feet = 100 links.
- 1 link = 7.92 inches.

Square Measure

- 1 square mile = 640 acres = 6400 square chains.
- 1 acre = 10 square chains = 4840 square yards = 43,560 square feet.
- 1 square chain = 16 square rods = 484 square yards = 4356 square feet.
- 1 square rod = 30.25 square yards = 272.25 square feet = 625 square links.
- 1 square yard = 9 square feet.
- 1 square foot = 144 square inches.
- An acre is equal to a square, the side of which is 208.7 feet.

Dry Measure

- 1 bushel (U.S. or Winchester struck bushel) = 1.2445 cubic foot = 2150.42 cubic inches.
- 1 bushel = 4 pecks = 32 quarts = 64 pints.
- 1 peck = 8 quarts = 16 pints.
- 1 quart = 2 pints.
- 1 heaped bushel = 1 1/4 struck bushel.
- 1 cubic foot = 0.8036 struck bushel.
- 1 British Imperial bushel = 8 Imperial gallons = 1.2837 cubic foot = 2218.19 cubic inches.

Liquid Measure

- 1 U.S. gallon = 0.1337 cubic foot = 231 cubic inches = 4 quarts = 8 pints.
- 1 quart = 2 pints = 8 gills.
- 1 pint = 4 gills.
- 1 British Imperial gallon = 1.2003 U.S. gallon = 277.27 cubic inches.
- 1 cubic foot = 7.48 U.S. gallons.

Circular and Angular Measure

- 60 seconds (") = 1 minute (')
- 60 minutes = 1 degree (°)
- 360 degrees = 1 circumference (C)
- 57.3 degrees = 1 radian
- 2 π radians = 1 circumference (C)

Specific Gravity

- The specific gravity of a substance is its weight as compared with the weight of an equal bulk of pure water.
- For making specific gravity determinations the temperature of the water is usually taken at 62° F. when 1 cubic foot of water weighs 62.355 lbs. Water is at its greatest density at 39.20° F. or 4° Centigrade.

Temperature

The following equation will be found convenient for transforming temperature from one system to another:

Let F = degrees Fahrenheit; C = degrees Centigrade; R = degrees Reamur.

$$\frac{F-32}{180} = \frac{C}{100} = \frac{R}{80}$$

Avoirdupois or Commercial Weight

- 1 gross or long ton = 2240 pounds.
- 1 net or short ton = 2000 pounds.
- 1 pound = 16 ounces = 7000 grains.
- 1 ounce = 16 drams = 437.5 grains.

Measures of Pressure

- 1 pound per square inch = 144 pounds per square foot = 0.068 atmosphere = 2.042 inches of mercury at 62 degrees F. = 27.7 inches of water at 62 degrees F. = 2.31 feet of water at 62 degrees F.
- 1 atmosphere = 30 inches of mercury at 62 degrees F. = 14.7 pounds per square inch = 2116.3 pounds per square foot = 33.95 feet of water at 62 degrees F.
- 1 foot of water at 62 degrees F. = 62.355 pounds per square foot = 0.433 pound per square inch.
- 1 inch of mercury at 62 degrees F. = 1.132 foot of water = 13.58 inches of water = 0.491 pound per square inch.
- Column of water 12 in. high, 1 in. dia. = .341 lbs.

Cubic Measure

- 1 cubic yard = 27 cubic feet.
- 1 cubic foot = 1728 cubic inches.
- The following measures are also used for wood and masonry:
- 1 cord of wood = 4 X 4 X 8 feet = 128 cubic feet.
- 1 perch of masonry = 16-1/2 X 1-1/2 X 1 foot = 24-3/4 cubic feet.

Shipping Measure

- For measuring entire internal capacity of a vessel: 1 register ton = 100 cubic feet.
- For measurement of cargo:
- 1 U.S. shipping ton = 40 cubic feet = 32.143 U.S. bushels = 31.16 Imperial bushels.
- British shipping ton = 42 cubic feet = 33.75 U.S. bushels = 32.72 Imperial bushels.

Troy Weight, Used for Weighing Gold and Silver

- 1 pound = 12 ounces = 5760 grains.
- 1 ounce = 20 pennyweights = 480 grains.
- 1 pennyweight = 24 grains.
- 1 carat (used in weighing diamonds) = 3.086 grains.
- 1 grain Troy = 1 grain avoirdupois = 1 grain apothecaries' weight.

Measure Used for Diameters and Areas of Electric Wires

- 1 circular inch = area of circle 1 inch in diameter = 0.7854 square inch.
- 1 circular inch = 1,000,000 circular mils.
- 1 square inch = 1.2732 circular inch = 1,273,239 circular mils.
- A circular mil is the area of a circle 0.001 inch in diameter.

Board Measure

- One foot board measure is a piece of wood 12 inches square by 1 inch thick, or 144 cubic inches. 1 cubic foot therefore equals 12 feet board measure.

Table 28: Decimal and Millimeter Equivalents of Fractions

Inches			Inches			Inches			Inches		
Fractions	Decimals	Milli-meters	Fractions	Decimals	Milli-meters	Fractions	Decimals	Milli-meters	Fractions	Decimals	Milli-meters
1/64	.015625	.397									
	.03125	.794	23/64	11/32	.34375	8.7319			11/16	.6875	17.463
3/64	.046875	1.191		3/8	.359375	9.128			23/32	.703125	17.859
	.0625	1.588	25/64	13/32	.375	9.525			47/64	.71875	18.256
5/64	.078125	1.984			.390625	9.922			3/4	.734375	18.653
	.09375	2.381	27/64	7/16	.40625	10.319			25/32	.75	19.050
7/64	.109375	2.778			.421875	10.716			49/64	.765625	19.447
	.125	3.175	29/64	15/32	.4375	11.113			51/64	.78125	19.844
9/64	.140625	3.582			.453125	11.509			13/16	.796875	20.241
	.15625	3.969	31/64	1/2	.46875	11.906			27/32	.8125	20.638
11/64	.171875	4.366			.48376	12.303			53/64	.828125	21.034
	.1875	4.763	33/64	17/32	.500	12.700			7/8	.84375	21.431
13/64	.203125	5.159			.515625	13.097			29/32	.859375	21.828
	.21875	5.556	35/64	9/16	.53125	13.494			59/64	.875	22.225
15/64	.234375	5.953			.546875	13.891			15/16	.890625	22.622
	.250	6.350	37/64	19/32	.5625	14.288			31/32	.90524	23.019
7/64	.265625	6.747			.578125	14.684			1	.921875	23.416
	.28125	7.144	39/64	5/8	.59375	14.081				.9375	23.813
19/64	.296875	7.541			.609375	15.478				.953125	24.209
	.3125	7.938	41/64	21/32	.625	15.875				.96875	24.606
21/64	.328125	8.334			.640625	16.272				.984375	25.003
			43/64		.65625	16.669				1.000	25.400
					.671875	17.066					

Table 29: Millimeter-Inch Equivalents: 1" = 25.4mm (.03937" = 1mm)

Milli-meter	Decimal	Milli-meter	Decimal	Milli-meter	Decimal	Milli-meter	Decimal	Milli-meter	Decimal
1	.03937	52	2.04724	103	4.05511	154	6.06299	205	8.07086
2	.07874	53	2.08661	104	4.09448	155	6.10236	206	8.11023
3	.11811	54	2.12598	105	4.13385	156	6.14173	207	8.14960
4	.15748	55	2.16535	106	4.17322	157	6.18110	208	8.18897
5	.19685	56	2.20472	107	4.21259	158	6.22047	209	8.22834
6	.23622	57	2.24409	108	4.25196	159	6.25984	210	8.26771
7	.27559	58	2.28346	109	4.29133	160	6.29921	211	8.30708
8	.31496	59	2.32283	110	4.33070	161	6.33858	212	8.34645
9	.35433	60	2.36220	111	4.37007	162	6.37795	213	8.38582
10	.39370	61	2.40157	112	4.40944	163	6.41732	214	8.42519
11	.43307	62	2.44094	113	4.44881	164	6.45669	215	8.46456
12	.47244	63	2.48031	114	4.48818	165	6.49606	216	8.50393
13	.51181	64	2.51968	115	4.52755	166	6.53543	217	8.54330
14	.55118	65	2.55905	116	4.56692	167	6.57480	218	8.58267
15	.59055	66	2.59842	117	4.60629	168	6.61417	219	8.62204
16	.62992	67	2.63779	118	4.64566	169	6.65354	220	8.66141
17	.66929	68	2.67716	119	4.68503	170	6.69291	221	8.70078
18	.70866	69	2.71653	120	4.72440	171	6.73228	222	8.74015
19	.74803	70	2.75590	121	4.76378	172	6.77165	223	8.77952
20	.78740	71	2.79527	122	4.80315	173	6.81102	224	8.81889
21	.82677	72	2.83464	123	4.84252	174	6.85039	225	8.85826
22	.86614	73	2.87401	124	4.88189	175	6.88976	226	8.89763
23	.90551	74	2.91338	125	4.92126	176	6.92913	227	8.93700
24	.94488	75	2.95275	126	4.96063	177	6.96850	228	8.97637
25	.98425	76	2.99212	127	5.00000	178	7.00787	229	9.01574
26	1.02362	77	3.03149	128	5.03937	179	7.04724	230	9.05511
27	1.06299	78	3.07086	129	5.07875	180	7.08661	231	9.09448
28	1.10236	79	3.11023	130	5.11811	181	7.12598	232	9.13385
29	1.14173	80	3.14960	131	5.15749	182	7.16535	233	9.17322
30	1.18110	81	3.18897	132	5.19685	183	7.20472	234	9.21259
31	1.22047	82	3.22834	133	5.23622	184	7.24409	235	9.25196
32	1.25984	83	3.26771	134	5.27559	185	7.28346	236	9.29133
33	1.29921	84	3.30708	135	5.31496	186	7.32283	237	9.33070
34	1.33858	85	3.34645	136	5.35433	187	7.36220	238	9.37007
35	1.37795	86	3.38582	137	5.39370	188	7.40157	239	9.40944
36	1.41732	87	3.42519	138	5.43307	189	7.44094	240	9.44881
37	1.45669	88	3.46456	139	5.47244	190	7.48031	241	9.48818
38	1.49606	89	3.50393	140	5.51181	191	7.51968	242	9.52755
39	1.53543	90	3.54330	141	5.55118	192	7.55905	243	9.56692
40	1.57480	91	3.58267	142	5.59055	193	7.59842	244	9.60629
41	1.61417	92	3.62204	143	5.62992	194	7.63779	245	9.64566
42	1.65354	93	3.66141	144	5.66929	195	7.67716	246	9.68503
43	1.69291	94	3.70078	145	5.70866	196	7.71653	247	9.72440
44	1.73228	95	3.74015	146	5.74804	197	7.75590	248	9.76378
45	1.77165	96	3.77952	147	5.78740	198	7.79527	249	9.80315
46	1.81102	97	3.81889	148	5.82677	199	7.83464	250	9.84252
47	1.85039	98	3.85826	149	5.86614	200	7.87401	251	9.88189
48	1.88976	99	3.89763	150	5.90551	201	7.91338	252	9.92126
49	1.92913	100	3.93710	151	5.94488	202	7.95275	253	9.96063
50	1.96850	101	3.97637	152	5.98425	203	7.99212	254	10.00000
51	2.00787	102	4.01574	153	6.02362	204	8.03149	-	-

Metric System of Measurements

Measures of Length

10 millimeters (mm.)	= 1 centimeter (cm.)
10 centimeters	= 1 decimeter (dm.)
10 decimeters	= 1 meter (m.)
1000 meter	= 1 kilometer (km.)

Measure of Weight

10 milligrams (mg.)	= 1 centigram (cg.)
10 centigrams	= 1 decigram (dg.)
10 decigrams	= 1 gram (g.)
10 grams	= 1 decagram (Dg.)
10 decagrams	= 1 hectogram (Hg.)
10 hectograms	= 1 Kilogram (Kg.)
1000 kilograms	= 1 (metric) ton (T.)

Surveyor's Square Measure

100 square meters (m. ²)	= 1 are (ar.)
100 acres	= 1 hectare (har.)
100 hectares	= 1 sq. kilometer (Km. ²)

Millimeters X.039370 = inches.
Meters x 39.370 = inches.
Meters X 3.2808 = feet.
Meters X 1.09361 = yards.
Kilometers X 3,280.8 = feet.
Kilometers X.62137 = Statute Miles.
Kilometers x.53959 = Nautical Miles.

Grams X 981 = dynes.
Grams X 15.432 = grains.
Grams X.03527 = ounces (Avd.).
Grams x.033818 = fluid ounces (water).
Kilograms X 35.27 = ounces (Avd.).
Kilograms X 2.20462 = pounds (Avd.).
Metric Tons (1000 Kg.) X 1.10231 = Net Ton (2000 lbs.).
Metric Tons (1000 Kg.) X.98421 = Gross Ton (2240 lbs.).

Square Millimeters X.00155 = square inches.
Square centimeters X.155 = square inches.
Square Meters X 10.76387 = square feet.
Square Meters X 1.19599 = square yards.
Hectares X 2.47104 = acres.
Square Kilometers X 247.104 = acres.
Square Kilometers X.3861 = square miles.

Cubic centimeters X.033818 = fluid ounces.
Cubic centimeters X.061023 = cubic inches.
Cubic centimeters X.271 = fluid drams.
Liters X 61.023 = cubic inches.
Liters X 1.05668 = quarts.
Liters X .26417 = gallons.
Liters X.035317 = cubic feet.
Hectoliters X 26.417 = gallons.
Hectoliters X 3.5317 = cubic feet.
Hectoliters X 2.83794 = bushel (2150.42 cu. in.).
Hectoliters X.1308 = cubic yards.
Cubic Meters x 264.17 = gallons.
Cubic Meters x 35.317 = cubic feet.
Cubic Meters X 1.308 = cubic yards.

Calorie x 0.003968 = B.T.U.
Joules X.7373 = pound-feet.
Newton-Meters X 8.851 = pound-inches
Cheval Vapeur X.9863 = Horsepower.
Kilowatts X 1.34 = Horsepower.
Kilowatt Hours X 3415 = B.T.U.
(Degrees Cent. X 1.8) + 32 = degrees Fahr.
(Degrees Reamur X 2.25) + 32 = degrees Fahr.

Square Measure

100 sq. millimeters (mm. ²)	= 1 sq. centimeter (cm. ²)
100 sq. centimeters	= 1 sq. decimeter (dm. ²)
100 sq. decimeters	= 1 sq. meter (m. ²)

Cubic Measure

1000 cu. millimeters (mm. ³)	= 1 cu. centimeter (cm. ³)
1000 cu. centimeters	= 1 cu. decimeter (dm. ³)
1000 cu. decimeters	= 1 cu. meter (m. ³)

Dry and Liquid Measure

10 milliliters (ml.)	= 1 centiliter (cl.)
10 centiliters	= 1 deciliter (dl.)
10 deciliters	= 1 liter (l.)
100 liters	= 1 hectoliter (Hl.)

1 liter = 1 cubic decimeter = the volume of 1 kilogram of pure water at a temperature of 39.2 degrees F.

Length Conversion Constants for Metric and U.S. Units

Inches X 25.4001 = millimeters.
Inches X.0254 = meters.
Feet x.30480 = meters.
Yards X.91440 = meters.
Feet x.0003048 = kilometers.
Statute Miles X 1.60935 = kilometers.
Nautical Miles x 1.85325 = kilometers.

Weight Conversion Constants for Metric and U.S. Units

Dynes X.0010193 = grams.
Grains X.0648 = grams.
Ounces (Avd.) X 28.35 = grams.
Fluid Ounces (Water) X 29.57 = grams.
Ounces (Avd.) X.02835 = kilograms.
Pounds (Avd.) X.45359 = kilograms.
Net Ton (2000 lbs.) X.90719 = Metric Tons (1000 Kg.).
Gross Ton (2240 lbs.) X 1.01605 = Metric Tons (1000 Kg.).

Area Conversion Constants for Metric and U.S. Units

Square Inches X 645.163 = square millimeters.
Square Inches x 6.45163 = square centimeters.
Square Feet x.0929 = square meters.
Square Yards X.83613 = square meters.
Acres X.40469 = hectares.
Acres X.0040469 = square kilometers.
Square Miles X 2.5899 = square kilometers.

Volume Conversion Constants for Metric and U.S. Units

Fluid Ounces X 29.57 = cubic centimeters.
Cubic Inches X 16.387 = cubic centimeters.
Fluid Drams x 3.69 = cubic centimeters.
Cubic Inches X.016387 = liters.
Quarts x.94636 = liters.
Gallons x 3.78543 = liters.
Cubic Feet x 28.316 = liters.
Gallons x.0378543 = hectoliters.
Cubic Feet x.28316 = hectoliters.
Bushels (2150.42 cu. in.) X.352379 = hectoliters.
Cubic Yards x 7.645 = hectoliters.
Gallons x.00378543 = cubic meters.
Cubic Feet x.028316 = cubic meters.
Cubic Yards x.7645 = cubic meters.

Power and Heat Conversion Constants for Metric and U.S. Units

B.T.U. X 252 = calories.
Pound-Foot X 1.3563 = joules.
Pound-inches X 1.1298 = Newton-meters.
Horsepower X 1.014 = Cheval Vapeur.
Horsepower X.746 = kilowatts.
B.T.U. X.00029282 = kilowatt hours.
(Degrees Fahr. - 32) x.555 = degrees Cent.
(Degrees Fahr. - 32) x.444 = degrees Reamur.

COMMON CONVERSION FACTORS USEFUL IN MECHANICAL POWER TRANSMISSION

Symbols and Abbreviations Used in Conversion Factors

Symbols and abbreviations found in this section are those currently used in many texts and product publications. Considerable effort is underway to standardize on abbreviations for metric and English units of measurement. Recently, ASTM (American Society for Testing and Materials) and IEEE (Institute of Electrical and Electronic Engineers) published a standard practice on the metric system. † This publication consolidates a great deal of the current thinking and provides a system of abbreviations and symbols that differ somewhat from those used here.

This Handbook has retained use of familiar abbreviations consistent with existing product and trade literature rather than the abbreviations found in current publications of technical and scientific societies.

Prefixes Used in the Metric System

Common prefixes and symbols used in the metric system are listed below. An example of use is 1000 meters is equivalent to 1 kilometer, and 1/1000 of one meter is equivalent to 1 millimeter.

Prefix	Symbol	Multiplication Factor-Decimal and Power of 10
giga	G	1,000,000,000 or 10^9 or one billion
mega	M	1,000,000 or 10^6 or one million
kilo	k	1,000 or 10^3 or one thousand
*hecto	h	100 or 10^2 or one hundred
*deka	da	10 or 10^1 or ten
**deci	d	0.1 or 10^{-1} or one tenth
**centi	c	0.01 or 10^{-2} or one hundredth
mill	m	0.001 or 10^{-3} or one thousandth
micro	μ	0.000,001 or 10^{-6} or one millionth
nano	n	0.000,000,001 or 10^{-9} or one billionth

* Not commonly used.

** Not commonly used except for special situations.

The centimeter as a unit of length is in common use.

The decibel is a unit in both electrical and acoustical work.

†ASTM/IEEE Standard Metric Practice, ASTM E 380-75, IEEE Std. 268-1976.

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Symbol or Abbreviation	Term
atm	atmosphere
avdp	avoirdupois
bbl	barrels
bu	bushels
C	degrees Centigrade or Celsius
cc	cubic centimeters
cfm	cubic feet per minute
cfs	cubic feet per second
cm	centimeter
cu	cubic
deg	degrees
F	degrees Fahrenheit
fps	feet per second
ft	feet
ft-lb	foot-pounds (work or energy)
ft per sec	feet per second (alternate)
ft per sec ²	feet per second per second
g	acceleration due to gravity
g	grams
gal	gallons
gpm	gallons per minute
hp	horsepower
hr	hour
in	inches
in-lb	inch-pounds (work or energy)
K	degrees Kelvin
kg	kilograms
km	kilometers
kn	knots
kW	kilowatts

Symbol or Abbreviation	Term
l	liters
lb	pounds
lb-ft	pound-feet (torque)
m	meters
m per sec ²	meters per second per second
mi	miles
mm	millimeters
mph	miles per hour
MGD	millions of gallons per day
N	Newtons
oz	ounces
oz-in	ounce-inches (torque)
Pa	Pascals
psi	pounds per square inch
psia or psig	pounds per square inch "absolute" or gauge
pt	pint
qt	quart
R	degrees Rankine (Fahrenheit, absolute)
rad	radians
rev	revolutions
rpm	revolutions per minute
sec	seconds
sq	square
std	standard
temp	temperature
wt	weight
yd	yard
yr	year

Rounding of Numbers

A minimum of four significant figures are used in conversion factors presented here. Where the conversion factor is exact (for example, 1 foot contains 12 inches), decimal fractions are not necessary. Also, where large whole numbers are used (for example, 1 square kilometer contains 1195990 square yards), decimal fractions are not used unless justified by the accuracy of ordinary computations.

1195990	(sq yd in a sq km)
4389.12	(cc in a cu ft)
448.86	(gpm in a liter per sec)
14.70	(psi in an atmosphere)
0.4331	(psi in a ft of water)
0.0625	(lb-in in an oz-in)

VELOCITY

centimeters per second (cm per sec)	feet per second (fps or ft per sec)	0.3281
feet per second (fps)	centimeters per second (cm per sec)	30.48
	meters per second (m per sec)	0.3048
	kilometers per hour (km per hr)	1.097
	miles per hour (mph)	0.6818
kilometers per hour (km per hr)	knots (kn)	0.5396
	feet per second (fps)	1.467
	kilometers per hour (km per hr)	1.609
	feet per minute (ft per min.)	88
knots (kn)	miles per hour (mph)	1.152
	kilometers per hour (km per hr)	1.853
radians per second (rad per sec)	revolutions per minute (rpm)	9.55
	degrees per minute (deg per min.)	3437.7
revolutions per minute (rpm)	radians per second (rad per sec)	0.1047
	degrees per minute (deg per min.)	360

ACCELERATION

COLUMN A

To Convert From...	To...	Multiply Col. A by
feet per second per second (ft per sec ²)	meters per second per second (m per sec ²)	0.3048
m per sec ²	ft per sec ²	3.281
revolutions per minute per second (rpm per sec)	radians per second per second (rad per sec ²)	0.1047
rad per sec ²	rpm per sec	9.55

ENGINEERING/TECHNICAL

DYNA-SYNC

HT Synchronous Belts

Sprockets

Conveyor Components

Engineering

VOLUMETRIC FLOW RATES

gallons per minute, US (gpm)	liters per second (l per sec)	0.008434
	cubic feet per minute (cfm)	0.1337
	cubic feet per hour (cu ft per hr)	8.022
gallons per minute, UK or Canadian (gpm)	liters per second (l per sec)	0.0101
	cubic feet per minute (cfm)	0.1606
	cubic feet per hour (cu ft per hr)	9.634
cubic feet per second (cfs)	gpm (UK or Canadian)	373.77
	gpm (US)	448.86
	liters per second (l per sec)	1699.2
liters per second (l per sec)	cubic feet per minute (cfm)	2.119
	gpm (UK or Canadian)	13.20
	gpm (US)	15.85
millions of gallons per day, US (MGD)	liters per second (l per sec)	43.81
	cubic feet per minute (cfm)	92.85
	gallons per minute, US (gpm)	694.44

PRESSURE

pascals (Pa)	pounds per square inch (psi)	0.0001450
	pounds per square foot (lb per ft ²)	0.02089
	newtons per square meter	1
pounds per square inch (psi)	atmospheres, std. (atm)	0.0680
	pounds per square foot (lb per ft ²)	144
	pascals (Pa)	6894.8
	foot of water (ft of H ₂ O) 60F	2.301
atmospheres (atm), standard	psi	14.70
	lb per ft ²	2116.8
	Pa	101325
inch of water, 60F (in of H ₂ O)	psi	0.03609
	lb per ft ²	5.197
	Pa	248.84
foot of water, 60F (ft of H ₂ O)	psi	0.4331
	lb per ft ²	62.36
	Pa	2985.9

WEIGHT, MASS, INERTIA

pounds (lb)*	kilograms (kg)	0.4536
	ounces (oz)	16
kilograms (kg)	pounds (lb)	2.205
	ounces (oz)	35.27

WEIGHT, MASS, INERTIA, continued

COLUMN A

Convert From...	To	Multiply To Col. A by
tons (short)	metric tons	0.9072
	kilograms (kg).	907.2
	pounds (lb).	2000
metric tons	tons (short).	1.102
	kilograms	1000
	pounds	2205
pounds, weight (lb)	slugs, mass (lb-sec ² per ft)	0.03106
pound-foot ² (lb-ft ²)	kilogram-meters ² (kg-m ²).	0.04214

*pounds and ounces are avoirdupois

FORCE AND TORQUE

pounds (lb)	newtons(N).	4.448
newtons (N).	pounds (lb).	0.2248
newton-meters (N-m)	pound-feet (lb-ft).	0.7376
	pound-inches (lb-in)	8.851
	ounce-inches (oz-in)	141.60
ounce-inches (oz-in)	lb-ft.	0.005208
	N-m	0.007062
	lb-in	0.0625
pound-inches (lb-in)	lb-ft.	0.0833
	N-m	0.1298
	oz-in	16
pound-feet (lb-ft)	N-m	1.356
	lb -in	12
	oz-in	192

POWER

horsepower (hp)	kilowatts (kW).	0.7457
	foot-pounds per second (ft-lb per sec)	550
	foot-pounds per minute (ft-lb per min.)	33000
kilowatts (kW)	horsepower (hp).	1.341

TEMPERATURE

		Use This Relationship
degrees Fahrenheit (F)	degrees Celsius (C)	C =5/9 (F-32)
degrees Celsius (C)	degrees Fahrenheit (F)	F=9/5C+32
degrees Fahrenheit (F)	degrees Rankine (R)	R =F+459.69
degrees Celsius (C)	degrees Kelvin (K)	K=C+273.16

Examples:

- Convert 12F to C. $C = 5/9 (F-32) = 5/9 (12-32) = 5/9 (-20)$
Answer = -11.1C
- Convert 40C to F. $F = 9/5C + 32 = 9/5 (40) + 32 = 72 + 32$
Answer = 104F

ENGINEERING/TECHNICAL



GRAVITATIONAL CONSTANT

$$g = 32.174 \text{ feet per second per second (ft per sec}^2\text{)}$$

$$= 9.8067 \text{ meters per second per second (m per sec}^2\text{)}$$

APPROXIMATE DENSITIES OF COMMON MATERIALS

	REPRESENTATIVE DENSITIES	
	Grams per cc	lb per cu ft
GASES @ 68F, std atm		
Air	1.30 grams per liter	0.07528
Oxygen	1.45 grams per liter	0.08305
Hydrogen.	0.09 grams per liter	0.005234
Nitrogen.	1.25 grams per liter	0.07274
	All Other Materials	
	grams per cc	
LIQUIDS		
Water @ 4C	1.000 grams per cc	62.43
20C	0.998	62.32
40C	0.992	61.94
SeaWater	1.02-1.03	64.00
Ethyl alcohol 100%	0.789	49.2
Kerosene	0.78-0.82	50
Gasoline	0.70-0.75	45
METALS		
Aluminum (95% Al)	2.70	169
Bronze (90% Cu, 10% Zn)	8.80	549
Copper (Annealed, ACS)	8.89	555
Gold.	19.32	1206
Iron, gray cast	7.10	443
Lead	11.36	709
Magnesium	1.74	109
Steel (0.4-0.5%Carbon)	7.80	487
Steel, 410 stainless.	7.70	480
ENGINEERING PLASTICS		
ABS, general purpose	1.01-1.05	64
Acrylics, cast sheet	1.19	74
Nylon 6/6	1.13-1.15	71
Phenolic, general purpose	1.35-1.46	87
Polycarbonates, general purpose	1.2	75
Polyesters, thermoplastic, unreinforced	1.31 - 1.43	86
Polyethylene, medium density.	0.926-0.940	58
Polyvinyl Chloride	1.30-1.58	89

APPROXIMATE DENSITIES OF COMMON MATERIALS

	REPRESENTATIVE DENSITIES	
	Grams per cc	lb per cu ft
OTHER MATERIALS		
Concrete (stone and sand)	2.2-2.4	144
Limestone	1.5	94
Anthracite coal, not piled.	1.4-1.8	100
Bituminous coal, not piled.	1.2-1.5	83
Lignite coal, not piled	1.1-1.4	78
Wood, air dried:		
Douglas fir.	0.48-0.55	32
White oak	0.77	48
White maple	0.53	33
Oregon pine	0.51	32
Hickory	0.74-0.80	48
Mahogany	0.56-0.85	44
African teak.	0.99	62
Indian teak	0.66-0.88	48

Formulas and Constants

1 HP = 33,000 Foot-pounds of work per minute.

1 HP = .746 K.W. = K.W.P 1.341.

1 HP = 2547 B.T.U. per hour.

1 B.T.U. = Heat required to raise 1 lb. water 1°F.

1 B.T.U. = 777.6 Foot-pounds work.

1 Kilowatt Hour = 3415 B.T.U.

Heat Value of Carbon = 14,600 B.T.U. per pound.

Latent Heat of Fusion of Ice = 143.15 B.T.U. per pound.

Latent Heat of Evaporation of Water at 212°F. = 970.4 B.T.U. per pound.

Total Heat of Saturated Steam at atmospheric pressure = 1,150.4 B.T.U. per pound.

1 Ton of Refrigeration = 288,000 B.T.U. per 24 hours.

g = Acceleration of Gravity (commonly taken as 32.16 feet per second per second).

1 Radian = 57.296 degrees.

1 Meter = 100 cm. = 39.37 inches.

1 Kilometer = .62137 miles.

1 Gallon = 231 cubic inches.

1 Barrel = 31.5 gallons.

Atmospheric Pressure = 14.7 pounds per sq. in. = 29.92 inches mercury at 32°F.

1 Lb. per Sq. In. Pressure = 2.3095 feet fresh water at 62°F. = 2.0355 inches mercury at 32°F. = 2.0416 inches mercury at 62°F.

Water Pressure (pounds per sq. in.) = .433 X height of water in feet (Fresh water at 62°F.).

Weight of 1 cu. ft. fresh Water = 62.355 lbs. at 62°F. = 59.76 lbs. at 212°F.

Weight of 1 cu. ft. Air at 14.7 lbs. per sq. in. Pressure = .07608 lbs. at 62°F. = .08073 lbs. at 32°F.

† Also look in the General Index under Weights, Measures, or the subject material required.

Flywheel Formulas

Flywheels are used on some machines, for example air compressors, to even out load pulsations. The following formulas are useful in designing entire flywheels and flywheel rims. A V-belt sheave may also be used as a flywheel eliminating the need for a separate flywheel in the system.

Formulas for Entire Flywheel

Kinetic energy of rotation of a flywheel (foot pounds) = .0001705 N₂(WR₂)^{*}.

Torque to uniformly accelerate or decelerate a flywheel

$$= \frac{.03908 (N_2 - N_1) (WR_2), * \text{ pound-inches}}{t}$$

where N₂ = final R.P.M. and N₁ = initial R.P.M.

Velocity at outside diameter (feet per minute) = 0.2618 ND.

W = weight (pounds).

R = radius of gyration (feet).

N = speed (R.P.M.)

t = time to change from N₁ to N₂ (seconds).

F = face of rim (inches).

D = outside diameter of rim (inches).

d = inside diameter of rim (inches).

K = weight per cubic inch of material (pounds).

*WR² = flywheel effect (pounds X feet²). See table to the right for WR² of rims. Ordinarily the WR² of the rim only is considered. In unusual instances the relatively small WR² values of the hub and arms or web can be added directly to the WR² of the rim if desired. To find the WR² of a hub or web use the WR² formula for rims, substituting the hub or web outside diameter, inside diameter, and width for D, d

and F respectively. When arms are used instead of a web an approximate WR² value of the arms is the total weight of the arms in pounds times the square of the radius in feet from the shaft center line to the mid point of the arms between hub and rim.

Table 30: Formulas for Flywheel Rims

Property	Cast Iron Rim (Based on .26 lbs. per cu. in.)	Steel Rim (Based on .283 lbs. per cu. in.)	Rim of any material weighing K pounds per cubic inch
Volume (Cubic Inches)	.7854F(D ² -d ²)	.7854F(D ² -d ²)	.7854F(D ² -d ²)
W Weight (Pounds)	.2042F(D ² -d ²)	.2223F(D ² -d ²)	.7854FK(D ² -d ²)
R Radius of Gyration (Feet)	$\sqrt{\frac{0.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{0.8681(D^2 + d^2)}{1000}}$	$\sqrt{\frac{0.8681(D^2 + d^2)}{1000}}$
WR ² Wt X Sq. of Radius of Gyration (Lbs. X Ft. ²)	$\frac{.1773F(D^4-d^4)}{1000}$	$\frac{.1929F(D^4-d^4)}{1000}$	$\frac{.6818FK(D^4-d^4)}{1000}$
T ▲ Tensile Load in rim (Lbs.)	$\frac{.3078FN_2(D^3-d^3)}{1,000,000}$	$\frac{.3350FN_2(D^3-d^3)}{1,000,000}$	$\frac{1,184FKN_2(D^3-d^3)}{1,000,000}$

▲ Centrifugal force causes this tensile load at each and every section of the rim. Hence, on rims split into two or more sections the fastening at each joint should be designed to take the full load as calculated from the formula here given.

Centrifugal Force

R = Distance from the axis of rotation to the center of gravity of the body (feet).

N = Revolutions per minute.

v = Velocity of the center of gravity of the body (feet per second).

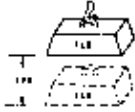
g = Acceleration due to gravity (32.16 commonly).

$$F = \frac{Wv^2}{gR} = \frac{WRN^2}{2933} = .000341 WRN^2$$

F = Centrifugal force tending to move the body outward from the axis of rotation (pounds).

W = Weight of body (pounds).

Torque and Horsepower Equivalents



A foot-pound is the amount of energy expended in lifting a one-pound mass a distance of one foot against the pull of gravity

FOOT-POUNDS INDICATE ENERGY

$$\begin{aligned} \text{Torque (in Pound-Inches)} &= \frac{63,025 \times \text{HP}}{\text{RPM}} \\ &= \text{Force X Lever Arm (In Inches)} \\ \text{Torque (In Pound-Feet)} &= \frac{5,252 \times \text{HP}}{\text{RPM}} \\ &= \text{Force X Lever Arm (In Feet)} \end{aligned}$$

Force = Working Load in Pounds.
 FPM = Feet Per Minute.
 RPM = Revolutions Per Minute.
 Lever Arm = Distance from the Force to the center of rotation in Inches or Feet.

HORSEPOWER
Common Unit of Mechanical power - (HP)
One HP is the rate of work required to raise 33,000 pounds one foot in one minute

An overhung load is a bending force imposed on a shaft due to the torque transmitted by V-drives, chain drives and other power transmission devices, other than flexible couplings.

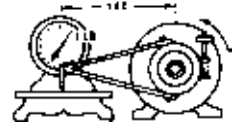
Most motor and reducer manufacturers list the maximum values allowable for overhung loads. It is desirable that these figures be compared with the load actually imposed by the connected drive.

Overhung loads may be calculated as follows:

$$\text{O.H.L.} = \frac{63,000 \times \text{HP} \times \text{F}}{\text{N} \times \text{R}}$$

Where HP = Transmitted hp X service factor
 N = RPM of shaft
 R = Radius of sprocket, pulley, etc.
 F = Factor

TORQUE
It is: a turning moment or twisting effort. Is it expressed in foot-pounds? or pound-feet?



A pound-foot is the moment created a force of one pound applied to the end of a lever arm one

POUND-FEET INDICATE TORQUE

Example:-

$$\begin{aligned} 25 \text{ HP at } 150 \text{ RPM} &= 10504 \text{ Pound-Inches Torque} \\ 2.5 \text{ HP at } 150 \text{ RPM} &= 1050.4 \text{ Pound-Inches Torque} \end{aligned}$$

For other values of RPM move decimal point in RPM values to the left or right as desired, and in Torque values move to the right or left (opposite way) the same number of places.

Example:-

$$\begin{aligned} 25 \text{ HP at } 150 \text{ RPM} &= 10504 \text{ Pound-Inches Torque} \\ 25 \text{ HP at } 1.50 \text{ RPM} &= 1050400 \text{ Pound-Inches Torque} \\ 2.5 \text{ HP at } 1.50 \text{ RPM} &= 105040 \text{ Pound-Inches Torque} \end{aligned}$$

HP = Force X FPM
 33,000
 HP = Torque (in Pounds-Inches) X RPM
 63,025
 HP = Torque (in Pounds-Feet) X RPM
 5,252

Overhung Loads

Weights of the drive components are usually negligible. The formula is based on the assumption that the load is applied at a point equal to one shaft diameter from the bearing face. Factor F depends on the type of drive used:

$$F = \begin{cases} 1.00 & \text{for single chain drives.} \\ 1.3 & \text{for TIMING Belt Drives and HTD belt Drives.} \\ 1.25 & \text{for spur or helical gear or double chain drives.} \\ 1.50 & \text{for V-belt drives.} \\ 2.50 & \text{for flat belt drives.} \end{cases}$$

Example: Find the overhung load imposed on a reducer by a double chain drive transmitting 7 hp @ 30 RPM. The pitch diameter of the sprocket is 10"; service factor is 1.3.

Solution:

$$\text{O.H.L.} = \frac{(63,000) (7 \times 1.3) (1.25)}{(30) (5)} = 4,780 \text{ lbs.}$$

Mathematical Equations

- To find circumference of a circle, multiply diameter by 3.1416.
- To find diameter of a circle, multiply circumference by 31831.
- To find area of a circle, multiply square of diameter by 7854.
- To find area of a rectangle, multiply length by breadth.
- To find area of a triangle, multiply base by 1/2 perpendicular height.
- To find area of ellipse, multiply product of both diameters by 7854.
- To find area of parallelogram, multiply base by altitude.
- To find side of an inscribed square, multiply diameter by 0.7071 or multiply circumference by 0.2251 or divide circumference by 4.4428.
- To find side of inscribed cube, multiply radius of sphere by 1.1547.

- To find side of an equal square, multiply diameter by 8862.
- To find the surface of a sphere, square the diameter and multiply by 3.1416.
- To find the volume of a sphere, cube the diameter and multiply by 5236.
- A side of a square multiplied by 1.4142 equals diameter of its circumscribing circle.
- A side of a square multiplied by 4.443 equals circumference of its circumscribing circle.
- A side of a square multiplied by 1.128 equals diameter of an equal circle.
- A side of a square multiplied by 3.547 equals circumference of an equal circle.
- To find gallon capacity of tanks (given dimensions of a cylinder in inches): square the diameter of the cylinder, multiply by the length and by 0.034.

Table 31: Strength and Physical Properties of Various Metals

Metals and Alloys	Stress in Thousands of Pounds per Sq. Inch				Modulus of Elasticity Millions of PSI	Elongation%
	Tension Ultimate	Tension Yield Point	Compression Ultimate	Shear Ultimate		
Aluminum, Type 1100-0, Annealed	13	5	.....	9	10	45
Aluminum, Type 1100-H18, Hard	24	22	.....	13	10	15
Aluminum, Type 3003-0, Annealed	16	6	.....	11	10	40
Aluminum, Type 3003-H18, Hard	29	27	.....	16	10	10
Aluminum, Type 5052-0, Annealed	28	13	.....	18	10.20	30
Aluminum, Type 5052-H38, Hard	42	37	.....	24	10.20	8
Aluminum, Type 5056-0, Annealed	42	22	.....	26	10.30	35
Aluminum, Type 2014-0, Annealed	27	14	.....	18	10.60	18
Aluminum, Type 2014-T4, Heat Treated	62	42	.....	38	10.60	20
Aluminum, Type C4A, Casting, Solution Heat Treat	32	16	16▲	24	.....	8.50
Aluminum, Type S5C, As Die Cast	30	16	16▲	19	.....	9
Brass, Admiralty, Annealed	53	22	.....	.....	16	65
Brass, Aluminum, Annealed	60	27	.....	.....	16	55
Brass, Cartridge, 30% Zn, Annealed	44	11	.....	32	16	66
Brass, Cartridge, 30% Zn, Hard	76	63	.....	44	16	8
Brass, Naval, Annealed	57†	25†	.....	40 †	15	47†
Brass, Naval, Leaded, Annealed	57†	25†	.....	36 †	15	40†
Brass, Red, 15% Zn, Annealed	39	10	.....	31	17	48
Brass, Red, 15% Zn, Hard	70	57	.....	42	17	5
Brass, Red, Leaded, Cast, Grade 4A	33-46	17-24	10-12▲	.....	9.1-14.8	20-35
Brass, Red, Leaded, Cast, Grade 4B	30-38	12-17	11-12▲	.....	.....	15-27
Brass, Semi-Red, Leaded, Cast, Grade 5A	29-39	13-17	.....	.....	7.7-14.3	18-30
Brass, Semi-Red, Leaded, Cast, Grade 5B	30-40	12-16	8-10▲	.....	10-14	20-35
Brass, Yellow, 35% Zn, Annealed	46	14	.....	32	15	65
Brass, Yellow, 35% Zn, Hard	74	60	.....	43	15	8
Bronze, Aluminum, As Cast	67-95	27-45	.....	.....	15-18	5-35
Bronze, Commercial, 10% Zn, Annealed	37†	10†	.....	28 †	17	45†
Bronze, Manganese, Annealed	65†	30†	.....	42 †	15	33†
Bronze, Phosphor, Annealed	40-66	14-24	.....	.....	16-17	48-70
Bronze, Tin, High Leaded, Cast	23-38	11-22	12-16▲	.....	8.5-13	7-20
Bronze, Tin, Leaded, Cast	33-48	16-26	9-15s▲	.....	10.6-16	15-40
Copper, Beryllium, Annealed	60-80	25-35†	.....	50-60 †	19	35-50†
Copper, Electrolytic, Tough Pitch, Annealed	32†	10†	.....	22 †	17	45†
Inconel, Cast	65-90	.....	.....	.....	23	10-20
Inconel, S, Cast	90-120	80-100	.....	.....	25	1-3
Inconel, Shapes, Plate, Etc., Annealed	80-100†	30-45†	.....	.....	31	35-55†
Inconel, X, Shapes, Plate, Etc., Annealed	110-130†	45-65†	.....	.....	31	40-55†
Iron, Cast, Class 30	30-34	.....	115	44	15	.....
Iron, Cast, Class 35	35-40	.....	125	43	16	.....
Iron, Ingot, Hot Rolled	44	23	.....	.....	29.80	47
Iron, Malleable, Class 32510	50	33	90	46	25	10-18
Iron, Malleable, Class 35018	55	37	90	51	25	18-25
Iron, Nodular (Ductile) Class 60-45-10	60	45	120	.....	22-25	10-25
Iron, Nodular (Ductile) Class 80-60-3	80	60	160	.....	22-25	3-10
Iron, Pearlitic, Malleable	60-90	40-70	.....	.....	28	3-12
Iron, Wrought, Hot Rolled	34-47	23-24	.....	.....	29	7-35
Lead, Hard, Rolled	4.0-4.6	.....	.....	.....	.....	31-48
Magnesium Alloy, Extruded, ASTM M1A	26-28	23-28	10-13	16	6.50	8-11
Magnesium Alloy, Extruded, ASTM AZ61A-F	40-45	22-32	15-21	21	6.50	15-16
Magnesium Alloy, Cast, ASTM M1B	14	4.50	.....	11	6.50	5
Magnesium Alloy, Cast, ASTM AZ92A	24	14	.....	19	6.50	2
Magnesium Alloy, Cast, ASTM AZ91A	36	23	.....	20	6.50	4
Monel, Cast	65-90	32-45	.....	.....	23	20-50
Monel, S, Cast	120-145	80-130	.....	.....	24.20	1-4
Monel, Shapes, Plate, Etc., Annealed	70-85†	25-45†	.....	.....	26	35-50†
Monel, K, Shapes, Plate, Etc., Annealed	90-105†	40-65†	.....	26	25-45	35-55†
Muntz Metal, Cu 59.63%, Zn balance	54	21	.....	40	15	45
Nickel, Cast	50-65	15-30	.....	.....	21.50	15-30
Nickel, Silver, Annealed	49-63†	18-30†	.....	.....	17-18	35-60†
Steel, Cast Carbon, Class 304, 316	70	38	.....	.....	30	28
Steel, Cast Low Alloy, Class 100,000, Normalized and Tempered	100	68	.....	.....	29-30	20
Steel, Cast Low Alloy, Class 120,000, Quenched and Tempered	120	95	.....	.....	29-30	16
Steel, Cast Low Alloy, Class 200,000, Quenched and Tempered	200	170	.....	.....	29-30	5
Steel, Sheets	48	25	.....	.....	29-30	18-27
Steel, Stainless, Austenitic, Types 304, 316	85	35	.....	.....	28	55-60
Steel, Stainless, Martensitic, Type 416	75	40	.....	.....	29	30
Steel, Structural, Bridge and Building, ASTM A7	60-72	33	33▲	45-54	29-30	21
Steel, Structural, High Strength, Low Alloy, ASTM A242	63-70	42-50	42-50▲	47-53	29-30	18-24
Zinc, Die Cast Alloy XXIII	41	.....	60▲	31	.....	10

† When hardened, strength values are higher, elongation less
 ▲ Compression yield point

Table 32: Properties of Sections

A = area

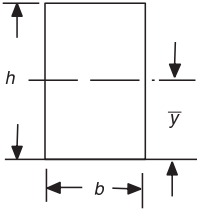
I = moment of inertia

J = polar moment of inertia

Z = section modulus π

k = radius of gyration

\bar{y} = centroidal distance

Rectangle


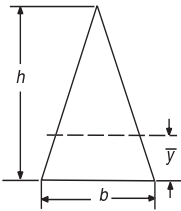
$$A = bh$$

$$I = \frac{bh^3}{12}$$

$$Z = \frac{bh^2}{6}$$

$$k = 0.289h$$

$$\bar{y} = \frac{h}{2}$$

Triangle


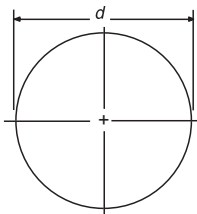
$$A = \frac{bh}{2}$$

$$I = \frac{bh^3}{36}$$

$$Z = \frac{bh^2}{24}$$

$$k = 0.236h$$

$$\bar{y} = \frac{h}{3}$$

Circle


$$A = \frac{\pi d^2}{4}$$

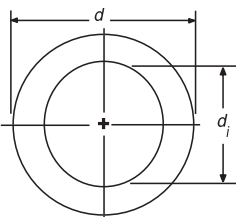
$$I = \frac{\pi d^4}{64}$$

$$Z = \frac{\pi d^3}{32}$$

$$J = \frac{\pi d^4}{32}$$

$$k = \frac{d}{4}$$

$$\bar{y} = \frac{d}{2}$$

Hollow Circle


$$A = \frac{\pi d}{4}(d^2 - d_i^2)$$

$$I = \frac{\pi d}{64}(d^4 - d_i^4)$$

$$Z = \frac{\pi d}{32d}(d^4 - d_i^4)$$

$$J = \frac{\pi d}{32}(d^4 - d_i^4)$$

$$k = \frac{\sqrt{d^2 + d_i^2}}{16}$$

$$\bar{y} = \frac{d}{2}$$

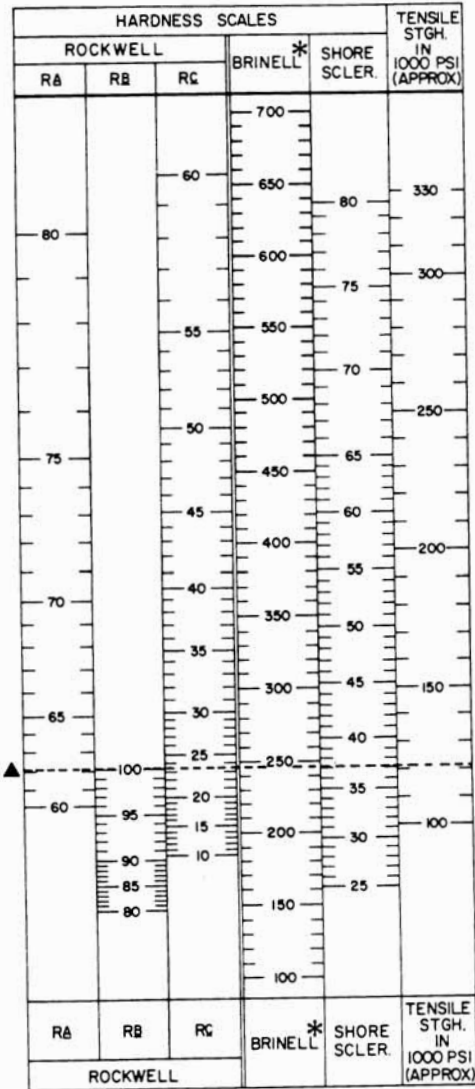
Table 33: Coefficients of Friction "f"

Material	Static		Sliding	
	Dry	Lubri-cated	Dry	Lubricated
Aluminum on aluminum	1.35	.....	.....	.....
Canvas belt on rubber lagging	0.30	.....	.....	.....
Canvas belt, stitched, on steel	.....	.....	0.20	0.10
Canvas belt, woven, on steel	.....	.....	0.22	0.10
Cast iron on asbestos, fabric brake material	.....	.....	0.35-0.40	.....
Cast iron on brass	.....	.....	0.30	.....
Cast iron on bronze	.....	.....	0.22	0.07-0.08
Cast iron on cast iron	1.10	.....	0.15	0.06-0.10
Cast iron on copper	1.05	.....	0.29	.....
Cast iron on lead	.....	.....	0.43	.....
Cast iron on leather	0.60	.....	.....	0.13-0.36
Cast iron on oak (parallel)	.....	.....	0.30-0.50	0.07-0.20
Cast iron on magnesium	.....	.....	0.25	.....
Cast iron on steel, mild	.....	0.18	0.23	1/0/00 3:11
Cast iron on tin	.....	.....	0.32	.....
Cast iron on zinc	0.85	.....	0.21	.....
Earth on earth	0.25-1.0	.....	.....	.....
Glass on glass	0.94	.....	0.40	.....
Hemp rope on wood	0.50-0.80	.....	0.40-0.70	.....
Nickel on nickel	1.10	.....	0.53	0.12
Oak on leather (parallel)	0.50-0.60	.....	0.30-0.50	.....
Oak on oak (parallel)	0.62	.....	0.48	0.16
Oak on oak (perpendicular)	0.54	.....	0.32	0.07
Rubber tire on pavement	0.8-0.9	0.6-0.7 *	0.75-0.85	0.5-0.7 *
Steel on ice	0.03	.....	0.01	.....
Steel, hard, on babbit	0.42-0.70	0.08-0.25	0.33-0.35	0.05-0.16
Steel, hard, on steel, hard	0.78	0.11-0.23	0.42	0.03-0.12
Steel, mild, on aluminum	0.61	.....	0.47	.....
Steel, mild, on brass	0.51	.....	0.44	.....
Steel, mild, on bronze	.....	.....	0.34	0.17
Steel, mild, on copper	0.53	.....	0.36	0.18
Steel, mild, on steel, mild	0.74	.....	0.57	0.09-0.19
Stone masonry on concrete	0.76	.....	.....	.....
Stone masonry on ground	0.65	.....	.....	.....
Wrought iron on bronze	0.19	0.07-0.08	0.18	.....
Wrought iron on wrought iron	.....	0.11	0.44	0.08-0.10

* Wet pavement

Table 34: U.S. Standard Sheet Metal Gages

Gage No.	Thickness in Decimal Parts of an Inch	Gage No.	Thickness in Decimal Parts of an Inch
1	.2813	20	.0359
2	.2656	21	.0329
3	.2391	22	.0299
4	.2242	23	.0269
5	.2092	24	.0239
6	.1943	25	.0209
7	.1793	26	.0179
8	.1644	27	.0164
9	.1495	28	.0149
10	.1345	29	.0135
11	.1196	30	.0120
12	.1046	31	.0109
13	.0897	32	.0102
14	.0747	33	.0094
15	.0673	34	.0086
16	.0598	35	.0078
17	.0538	36	.0070
18	.0478	37	.0066
19	.0418	38	.0063

Hardness Comparison Chart


* Shaded area indicates values may vary depending on type of ball used

▲ Example: A Brinell number of 245 is equal to 62 Rockwell "A", 100 Rockwell "B", 23 Rockwell "C", 37 Shore with a tensile of approximately 120,000 psi.

Trigonometric Formula

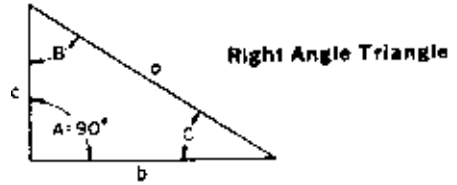
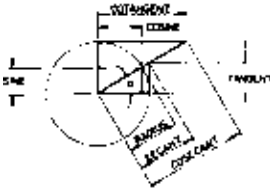


Table 35: Formulas for Finding Functions of Angles

Side opposite Hypotenuse	=	SINE
Side adjacent Hypotenuse	=	COSINE
Side opposite Side adjacent	=	TANGENT
Side adjacent Side opposite	=	COTANGENT
Hypotenuse Side adjacent	=	SECANT
Hypotenuse Side opposite	=	COSECANT

Table 36: Formulas for Finding Sides of Right Angle Triangles with an Angle and Side Known

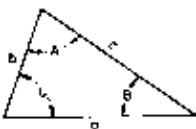
To find: Length of side opposite	}	Hypotenuse x Sine
		Hypotenuse ÷ Coscant
		Side adjacent x Tangent
		Side adjacent ÷ Cotangent
To find: Length of side adjacent	}	Hypotenuse X Cosine
		Hypotenuse ÷ Secant
		Side opposite X Cotangent
		Side opposite ÷ Tangent
To find: Length of Hypotenuse	}	Side opposite X Cosecant
		Side opposite ÷ Sine
		Side adjacent X Secant
		Side adjacent ÷ Cosine

Table 37: To Find Angles and Sides of Right Angle Triangles

To Find Angles			To Find Angles		
To Find:	Formulas		To Find:	Formulas	
C	$\frac{c}{a}$	= Sine C	a	$\sqrt{b^2 + c^2}$	---
C	$\frac{b}{a}$	= Cosine C	a	c x Cosec. C	$\frac{c}{\text{Sine C}}$
C	$\frac{c}{b}$	= Tan. C	a	c x Secant B	$\frac{c}{\text{Cosine B}}$
C	$\frac{b}{c}$	= Cotan C	a	b x Cosec. B	$\frac{b}{\text{Sine B}}$
C	$\frac{a}{b}$	= Secant C	a	b x Secant C	$\frac{b}{\text{Cosine C}}$
C	$\frac{a}{c}$	= Cosec. C	b	$\sqrt{a^2 - c^2}$	---
B	$\frac{c}{a}$	= Sine B	b	a x Sine B	$\frac{a}{\text{Cosecant B}}$
B	$\frac{c}{a}$	= Cosine B	b	a x Cos. C	$\frac{a}{\text{Secant C}}$
B	$\frac{b}{c}$	= Tan. B	b	c x Tan. B	$\frac{c}{\text{Cotangent B}}$
B	$\frac{c}{d}$	= Cotan. B	b	c x Cot. C	$\frac{c}{\text{Tangent C}}$
B	$\frac{a}{c}$	= Secant B	c	$\sqrt{a^2 - b^2}$	---
B	$\frac{a}{b}$	= Cosec. B	c	a x Cos. B	$\frac{a}{\text{Secant B}}$
			c	a x Sine C	$\frac{a}{\text{Cosecant C}}$
			c	b x Cot. B	$\frac{b}{\text{Tangent B}}$
			c	b x Tan. C	$\frac{b}{\text{Cotangent C}}$

Table 38: To Find Angles and Sides of Oblique Angle Triangle

Oblique Angle Triangle



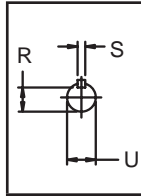
To find:	Known	Formulas	To Find:	Known	Formulas
C	A, B	$180^\circ - (A + B)$	A	B, C	$180^\circ - (B + C)$
b	a, B, A	$\frac{a \times \text{Sin. B}}{\text{Sin. A}}$	Cos. A	a, b, c	$\frac{b^2 + c^2 - a^2}{2bc}$
c	a, A, C	$\frac{a \times \text{Sin. C}}{\text{Sin. A}}$	Sin. C	c, A, a	$\frac{c \times \text{Sin. A}}{a}$
Tan. A	a, C, b	$\frac{a \times \text{Sin. C}}{b - (a \times \text{Cos. C})}$	Cot. B	a, C, b	$\frac{a \times \text{Cosec. C}}{b}$
B	A, C	$180^\circ - (A + C)$	c	b, C, B	b x Sin. C x Cosec. B
Sin. B	b, A, a	$\frac{b \times \text{Sin. A}}{a}$	---	---	-----

NEMA

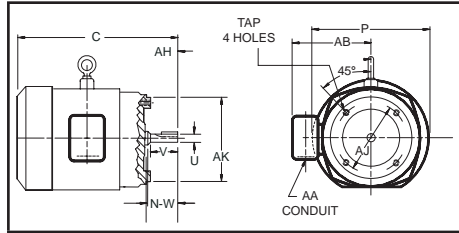
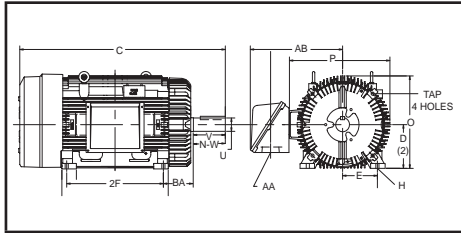
QUICK REFERENCE CHART

- Dimensions are for reference only
- Drawings represent standard TEFC general purpose motors

Contact your local Rockwell Automation office or go to the Motor Information Cent at 222.reliance.com for "C" dimensions



FRAME		NEMA SHAFT		KEYSEAT DIMENSIONS		FRAME		NEMA SHAFT		KEYSEAT DIMENSIONS	
U	H	R	S	R	S	U	H	R	S	R	S
48	48	1/2	29/64	FLAT		284T	286T	1-7/8	1-19/32	1/2	
56	56	5/8	33/64	3/16		324T	326T	2-1/8	1-27/32	1/2	
143T	145T	7/8	49/64	3/16		364T	365T	2-3/8	2-1/64	5/8	
182T	184T	1-1/8	63/64	1/4		404T	405T	2-7/8	2-29/64	3/4	
213T	215T	1-3/8	1-13/64	5/16		444T	445T	3-3/8	2-7/8	7/8	
254T	256T	1-5/8	1-13/32	3/8		447T	449T	3-3/8	2-7/8	7/8	

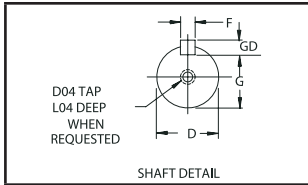
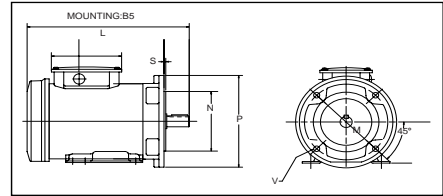
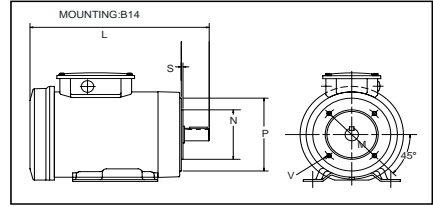
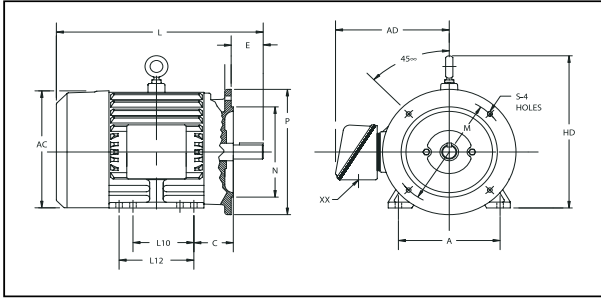


NEMA C-FACE	BA Dimensions
143TC - 145TC	2-3/4
182TC - 184TC	3-1/2
213TC - 215TC	4-1/4
254TC - 256TC	4-3/4

NEMA Frame	D	E	2F	H	N-W	O	P	U	Keyway	V	AA	AB	AH	AJ	AK	BA	Tap Size
48	3	2-1/8	2-3/4	11/32 SLOT	1-1/2	5-13/16	5-5/8	1/2		1-1/2	1/2	-	1-11/16	3-3/4	3	2-1/2	1/4-20
56H	3-1/2	2-7/16	3	11/32	1-7/8	8-9/16	7-9/32	5/8	3/16x3/32	1-7/8	1/2	-	2-1/16	5-7/8	4-1/4	2-3/4	3/8-16
56H	3-1/2	2-7/16	5	SLOT	1-7/8	8-9/16	7-9/32	5/8	3/16x3/32	1-7/8	1/2	-	2-1/16	5-7/8	4-1/2	2-3/4	3/8-16
143T	3-1/2	2-7/16	4	11/32	2-1/4	8-9/16	7-9/32	7/8	3/16x3/32	2-1/4	3/4	-	2-1/8	5-7/8	4-1/2	2-1/4	3/8-16
145T	3-1/2	2-3/4	5	11/32	2-1/4	8-9/16	7-9/32	7/8	3/16x3/32	2-1/4	3/4	-	2-1/8	5-7/8	4-1/2	2-1/4	3/8-16
182	4-1/2	3-3/4	4-1/2	13/32	2-1/4	9-7/8	9-1/4	7/8	3/16x3/32	2-1/4	3/4	8-7/16	2-1/8	5-7/8	4-1/2	2-3/4	3/8-16
184	4-1/2	3-3/4	5-1/2	13/32	2-1/4	9-7/8	9-1/4	7/8	3/16x3/32	2-1/4	3/4	8-7/16	2-1/8	5-7/8	4-1/2	2-3/4	3/8-16
182T	4-1/2	3-3/4	4-1/2	13/32	2-3/4	9-7/8	9-1/4	1-1/8	1/4x1/8	2-3/4	3/4	7-13/16	2-5/8	7-1/4	8-1/2	2-3/4	1/2-13
184T	4-1/2	3-3/4	5-1/2	13/32	2-3/4	9-7/8	9-1/4	1-1/8	1/4x1/8	2-3/4	3/4	7-13/16	2-5/8	7-1/4	8-1/2	2-3/4	1/2-13
213	5-1/4	4-1/4	5-1/2	13/32	3	11-1/4	10-1/2	1-1/8	1/4x1/8	3	1	9-5/16	2-3/4	7-1/4	8-1/2	3-1/2	1/2-13
215	5-1/4	4-1/4	7	13/32	3	11-1/4	10-1/2	1-1/8	1/4x1/8	3	1	9-5/16	2-3/4	7-1/4	8-1/2	3-1/2	1/2-13
213T	5-1/4	4-1/4	5-1/2	13/32	3-3/8	11-1/4	10-1/2	1-3/8	5/16x5/32	3-3/8	1	8-11/16	3-1/8	7-1/4	8-1/2	3-1/2	1/2-13
215T	5-1/4	4-1/4	7	13/32	3-3/8	11-1/4	10-1/2	1-3/8	5/16x5/32	3-3/8	1	8-11/16	3-1/8	7-1/4	8-1/2	3-1/2	1/2-13
254U	6-1/4	5	8-1/4	17/32	3-3/4	13-1/4	13-1/4	1-3/8	5/16x5/32	3-3/4	1-1/4	10-13/16	3-1/2	7-1/4	8-1/2	4-1/4	1/2-13
256U	6-1/4	5	10	17/32	3-3/4	13-1/4	13-1/4	1-3/8	5/16x5/32	3-3/4	1-1/4	10-13/16	3-1/2	7-1/4	8-1/2	4-1/4	1/2-13
254T	6-1/4	5	8-1/4	17/32	4	13-1/4	13-1/4	1-5/8	3/8x3/16	4	1-1/4	10-3/4	3-3/4	7-1/4	8-1/2	4-1/4	1/2-13
256T	6-1/4	5	10	17/32	4	13-1/4	13-1/4	1-5/8	3/8x3/16	4	1-1/4	10-3/4	3-3/4	7-1/4	8-1/2	4-1/4	1/2-13
284U	7	5-1/2	9-1/2	17/32	4-7/8	14-3/4	14-7/8	1-5/8	3/8x3/16	4-7/8	1-1/2	12-5/8	4-5/8	9	10-1/2	4-3/4	1/2-13
286U	7	5-1/2	11	17/32	4-7/8	14-3/4	14-7/8	1-5/8	3/8x3/16	4-7/8	1-1/2	12-5/8	4-5/8	9	10-1/2	4-3/4	1/2-13
284T	7	5-1/2	9-1/2	17/32	4-5/8	14-3/4	14-7/8	1-7/8	1/2x1/4	4-5/8	1-1/2	12-3/4	4-3/8	9	10-1/2	4-3/4	1/2-13
286T	7	5-1/2	11	17/32	4-5/8	14-3/4	14-7/8	1-7/8	1/2x1/4	4-5/8	1-1/2	12-3/4	4-3/8	9	10-1/2	4-3/4	1/2-13
284TS	7	5-1/2	9-1/2	17/32	3-1/4	14-3/4	14-7/8	1-5/8	3/8x3/16	3-1/4	1-1/2	12-3/4	3	9	10-1/2	4-3/4	1/2-13
286TS	7	5-1/2	11	17/32	3-1/4	14-3/4	14-7/8	1-5/8	3/8x3/16	3-1/4	1-1/2	12-3/4	3	9	10-1/2	4-3/4	1/2-13
324U	8	6-1/4	10-1/2	21/32	5-5/8	16-11/16	17	1-7/8	1/2x1/4	5-5/8	2	15-7/16	5-3/8	11	12-1/2	5-1/4	5/8-11
326U	8	6-1/4	12	21/32	5-5/8	16-11/16	17	1-7/8	1/2x1/4	5-5/8	2	15-7/16	5-3/8	11	12-1/2	5-1/4	5/8-11
324T	8	6-1/4	10-1/2	21/32	5-1/4	16-11/16	17	2-1/8	1/2x1/4	5-1/4	2	15-3/16	5	11	12-1/2	5-1/4	5/8-11
326T	8	6-1/4	12	21/32	5-1/4	16-11/16	17	2-1/8	1/2x1/4	5-1/4	2	15-3/16	5	11	12-1/2	5-1/4	5/8-11
324TS	8	6-1/4	10-1/2	21/32	3-3/4	16-11/16	17	1-7/8	1/2x1/4	3-3/4	2	15-3/16	3-1/2	11	12-1/2	5-1/4	5/8-11
326TS	8	6-1/4	12	21/32	3-3/4	16-11/16	17	1-7/8	1/2x1/4	3-3/4	2	15-3/16	3-1/2	11	12-1/2	5-1/4	5/8-11
364U	9	7	11-1/4	21/32	6-3/8	18-1/2	19-1/2	2-1/8	1/2x1/4	6-3/8	2-1/2	18	6-1/8	11	12-1/2	5-7/8	5/8-11
365U	9	7	12-1/4	21/32	6-3/8	18-1/2	19-1/2	2-1/8	1/2x1/4	6-3/8	2-1/2	18	6-1/8	11	12-1/2	5-7/8	5/8-11
364T	9	7	11-1/4	21/32	5-7/8	18-1/2	19-1/2	2-3/8	5/8x5/16	5-7/8	2-1/2	18-1/16	5-5/8	11	12-1/2	5-7/8	5/8-11
365T	9	7	12-1/4	21/32	5-7/8	18-1/2	19-1/2	2-3/8	5/8x5/16	5-7/8	2-1/2	18-1/16	5-5/8	11	12-1/2	5-7/8	5/8-11
364TS	9	7	11-1/4	21/32	3-3/4	18-1/2	19-1/2	1-7/8	1/2x1/4	3-3/4	2-1/2	18-1/16	3-1/2	11	12-1/2	5-7/8	5/8-11
365TS	9	7	12-1/4	21/32	3-3/4	18-1/2	19-1/2	1-7/8	1/2x1/4	3-3/4	2-1/2	18-1/16	3-1/2	11	12-1/2	5-7/8	5/8-11
404U	10	8	12-1/4	13/16	7-1/8	21-5/16	22-1/2	2-3/8	5/8x5/16	7-1/8	3	19-1/4	6-7/8	11	12-1/2	6-5/8	5/8-11
405U	10	8	13-3/4	13/16	7-1/8	21-5/16	22-1/2	2-3/8	5/8x5/16	7-1/8	3	19-1/4	6-7/8	11	12-1/2	6-5/8	5/8-11
404T	10	8	12-1/4	13/16	7-1/4	21-5/16	22-1/2	2-7/8	3/4x3/8	7-1/4	3	19-5/16	7	11	12-1/2	6-5/8	5/8-11
405T	10	8	13-3/4	13/16	7-1/4	21-5/16	22-1/2	2-7/8	3/4x3/8	7-1/4	3	19-5/16	7	11	12-1/2	6-5/8	5/8-11
404TS	10	8	12-1/4	13/16	4-1/4	21-5/16	22-1/2	2-1/8	1/2x1/4	4-1/4	3	19-5/16	4	11	12-1/2	6-5/8	5/8-11
405TS	10	8	13-3/4	13/16	4-1/4	21-5/16	22-1/2	2-1/8	1/2x1/4	4-1/4	3	19-5/16	4	11	12-1/2	6-5/8	5/8-11
444U	11	9	14-1/2	13/16	8-5/8	23-3/8	25-1/4	2-7/8	3/4x3/8	8-5/8	3	22-3/16	8-3/8	14	16	7-1/2	5/8-11
445U	11	9	16-1/2	13/16	8-5/8	23-3/8	25-1/4	2-7/8	3/4x3/8	8-5/8	3	22-3/16	8-3/8	14	16	7-1/2	5/8-11
444T	11	9	14-1/2	13/16	8-1/2	23-3/8	25-1/4	3-3/8	7/8x7/16	8-1/2	3	23-3/8	8-1/4	14	16	7-1/2	5/8-11
445T	11	9	16-1/2	13/16	8-1/2	23-3/8	25-1/4	3-3/8	7/8x7/16	8-1/2	3	23-3/8	8-1/4	14	16	7-1/2	5/8-11
447T	11	9	20	13/16	8-1/2	23-5/8	26	3-3/8	7/8x7/16	8-1/2	3	23-7/8	8-1/4	14	16	7-1/2	5/8-11
449T	11	9	25	13/16	8-1/2	23-5/8	26	3-3/8	7/8x7/16	8-1/2	3	23-7/8	8-1/4	14	16	7-1/2	5/8-11
444TS	11	9	14-1/2	13/16	4-3/4	23-3/8	25-1/4	2-3/8	5/8x5/16	4-3/4	3	23-3/8	4-1/2	14	16	7-1/2	5/8-11
445TS	11	9	16-1/2	13/16	4-3/4	23-3/8	25-1/4	2-3/8	5/8x5/16	4-3/4	3	23-3/8	4-1/2	14	16	7-1/2	5/8-11
447TS	11	9	20	13/16	4-3/4	23-5/8	26	2-3/8	5/8x5/16	4-3/4	4 NPT	23-7/8	4-1/2	14	16	7-1/2	5/8-11
449TS	11	9	25	13/16	4-3/4	23-5/8	26	2-3/8	5/8x5/16	4-3/4	4 NPT	23-7/8	4-1/2	14	16	7-1/2	5/8-11

IEC QUICK REFERENCE CHART

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 - Drawings represent standard TEFC general purpose motors
- Contact your local Rockwell Automation office or go to the Motor Information Cent at 222.reliance.com for "L" dimensions



KEY AND KEYSEAT DIMENSIONS									
FRAME	D	G	F	GD	FRAME	D	G	F	GD
71	14	11	5	5	160	37	42	12	8
80	19	15.5	6	6	180	48	42.5	14	9
90	24	20	8	7	200	55	49	16	10
100	28	24	8	7	225	60	53	18	11
112	28	24	8	7	250	70	67.5	20	12
132	38	33	10	8	280	80	71	22	14

Frame	B3 RIGID BASE				SHAFT		B5 FLANGE					B14 FACE					GENERAL			
	A	L10	L12	HD	C	E	D	N	M	P	S	V	N	M	P	S	V	AC	AD	XX
71	-	-	-	-	-	-	-	110	130	160	"3,5"	"9,5"	70	85	105	2,5	M6	143	-	13
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PT6-25 - PT6-26

QD Bushings

Welding, TAPER-LOCK Bushings

PT6-12

Wide Range Belts

PT9-2 - PT9-4

Working Tension, Dyna-Sync Drives

PT10-45