

# ROYERSFORD™

FOUNDRY AND MACHINE CO., INC.



*“Precision . . . when precision counts.”*

Cat. No. R94

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*Over 100 years of service . . .*

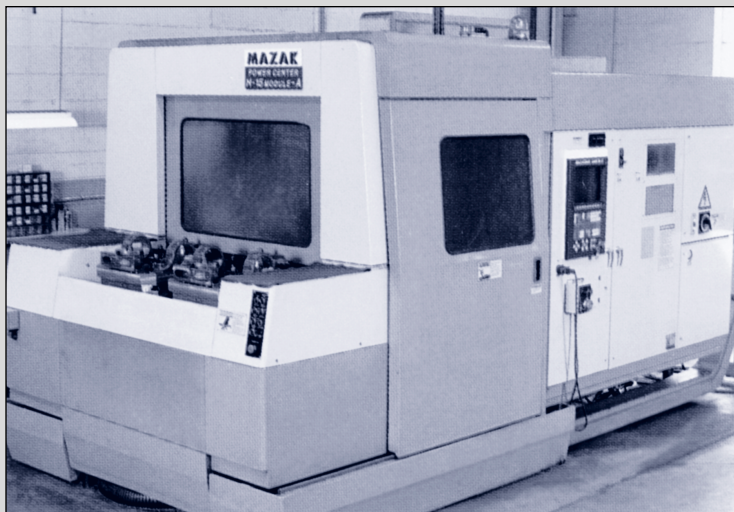


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Since 1890 ROYERSFORD has stood for precision products and unparalleled service in the manufacture of quality Power Transmission Appliances and Machine Tools. Literally thousands of our products have endured the test of time giving trouble free service in the OEM and replacement markets. People change; methods change; companies change; and we at ROYERSFORD have changed; however, the quality and service that the manufacturing community has received for over 100 years is still here. Our new modern facility has the latest in both conventional and CNC machine tools. The latest engineering principles are applied to material flow and mechanical handling equipment.

All of this combines to give our customers what they deserve; a quality product with service at a competitive price.



## “Type E” Bearings

Heavy Duty ROYERSFORD “TYPE E” BEARINGS come in a wide range of sizes and styles offering many advantages including high speed suitability, ruggedness, positive locking to the shaft, and at a competitive price.

The high strength grey iron housings are designed to be compact without sacrificing ruggedness. They are available in two and four bolt base Pillow Blocks, Square Flange, Piloted Flange and Take-Up styles; all mounting surfaces are fully machined to close tolerances. Both ends use positive locking ductile iron collars to securely fasten the inner race to the shaft. Two set screws are used for additional holding power.

TIMKEN Tapered Roller Bearings are used exclusively in ROYERSFORD “TYPE E” BEARINGS. These superior quality bearings are made from vacuum degassed steel which gives races and rollers unsurpassed load handling capabilities and longer useful bearing life. Load distribution is balanced over a long inner race giving the bearings a high radial and thrust load capacity suitable for most applications. The arrangement of the TIMKEN rollers and races enables a slight angular misalignment to be handled.

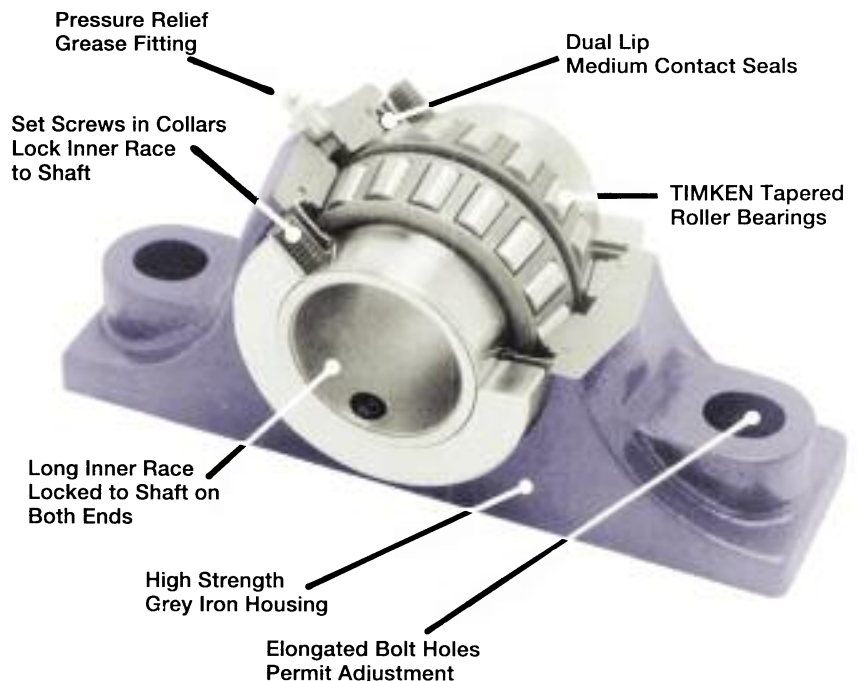
Snap rings and shims are used for proper race adjustment on sizes thru 3”. For sizes 3<sup>3</sup>/<sub>16</sub>” thru 5” an adjusting nut is used. Bore tolerance is +.001” - .000” for 3” and smaller bores; and +.002” - .000” for bores larger than 3”. ROYERSFORD “TYPE E” BEARINGS are prelubricated, adjusted and sealed at the factory. Just slip the bearings on the shaft. Danger from bearing failure caused by dirt or contaminants during installation is eliminated. Shaft ready bearings save time and expense as well as the possibility of premature failure present when housings must be cleaned, adjusted and lubricated during installation. Reduced expenses on installation and long life enable overall operating benefits that do not exist with other type bearings.

Dual lip medium contact seals . . . built in at each end of the bearing during factory assembly . . . offer the advantage of a primary lip that prevents loss of lubricant and a secondary lip for dirt and dust exclusion, both before and after installation of the bearing on the shaft. Sealing efficiency is maintained throughout the full range of self-alignment. Dual locking collars act as rotating fingers to keep contaminants away from the seals, further increasing the seal efficiency.

ROYERSFORD “TYPE E” BEARINGS are carried in warehouse and distributor stocks in popular transmission shaft sizes from 1<sup>3</sup>/<sub>16</sub>” to 5”.

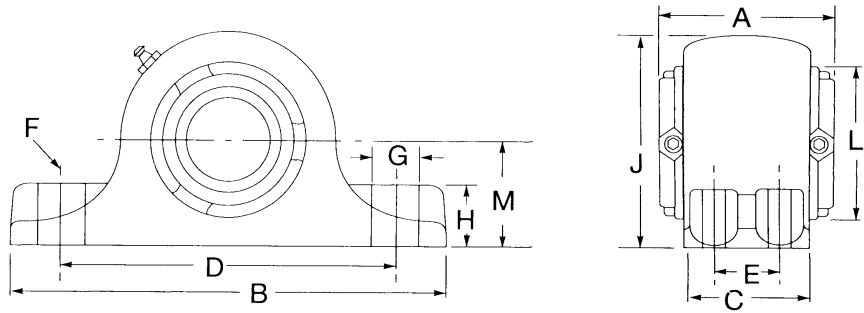


## Features:



## "Type E" Bearings

"TYPE E" Pillow Blocks are the most widely used of the "E" Series due to the variety of mounting methods. They are available in both 2-bolt base and 4-bolt base styles. All units are supplied with Timken® tapered roller bearings, dual locking collars and Royersford's exclusive dual lip, medium contact seals.



## "Type E" Pillow Blocks (non-expansion type)

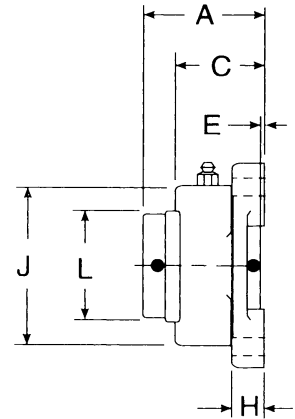
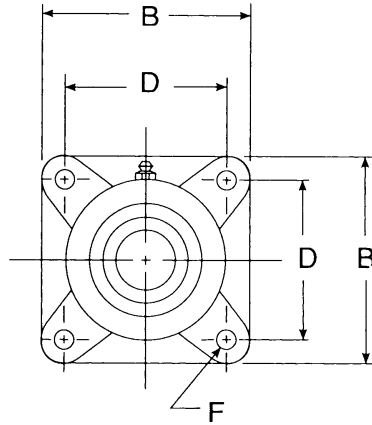
Shaft Size	Part Number		Wt.	A	B	C		D		F	4-Bolt Base		G	H	J	L	M
	2-Bolt Base	4-Bolt Base				2-Bolt Base	4-Bolt Base	Min.	Max.		2-Bolt Base	E					
1 <sup>3</sup> / <sub>16</sub> 1 <sup>1</sup> / <sub>4</sub>	20-02-0103 20-02-0104	-----	4.0	2 <sup>3</sup> / <sub>4</sub>	6	1 <sup>7</sup> / <sub>8</sub>	---	4 <sup>3</sup> / <sub>4</sub>	4 <sup>13</sup> / <sub>16</sub>	3/8	---	---	1 <sup>9</sup> / <sub>32</sub>	7/8	3	2 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
1 <sup>3</sup> / <sub>8</sub> 1 <sup>7</sup> / <sub>16</sub>	20-02-0106 20-02-0107	-----	6.9	3	7 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	---	5 <sup>3</sup> / <sub>8</sub>	5 <sup>7</sup> / <sub>8</sub>	1/2	---	---	3/4	1 <sup>1</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>
1 <sup>1</sup> / <sub>2</sub> 1 <sup>5</sup> / <sub>8</sub> 1 <sup>11</sup> / <sub>16</sub>	20-02-0108 20-02-0110 20-02-0111	-----	9.5	3 <sup>3</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	---	6 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	1/2	---	---	3/4	1 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>
1 <sup>3</sup> / <sub>4</sub> 1 <sup>7</sup> / <sub>8</sub> 1 <sup>15</sup> / <sub>16</sub> 2	20-02-0112 20-02-0114 20-02-0115 20-02-0200	-----	11.0	3 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	---	6 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	5/8	---	---	7/8	1 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>
2 <sup>3</sup> / <sub>16</sub>	20-02-0203	-----	14.0	3 <sup>3</sup> / <sub>4</sub>	9 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	---	7 <sup>5</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	5/8	---	---	7/8	1 <sup>1</sup> / <sub>2</sub>	5	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>
2 <sup>1</sup> / <sub>4</sub> 2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	20-02-0204 20-02-0207 20-02-0208	20-04-0204 20-04-0207 20-04-0208	19.0	4	10 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>8</sub>	8 <sup>5</sup> / <sub>8</sub>	5/8	1 <sup>7</sup> / <sub>8</sub> •	5/8	7/8	1 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub> 2 <sup>15</sup> / <sub>16</sub> 3	20-02-0211 20-02-0212 20-02-0215 20-02-0300	20-04-0211 20-04-0212 20-04-0215 20-04-0300	26.0	4 <sup>1</sup> / <sub>2</sub>	12	3	4	9 <sup>5</sup> / <sub>16</sub>	9 <sup>11</sup> / <sub>16</sub>	3/4	2 <sup>1</sup> / <sub>8</sub> •	5/8	1	1 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	4 <sup>23</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>8</sub>
3 <sup>3</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>4</sub> 3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	20-02-0303 20-02-0304 20-02-0307 20-02-0308	20-04-0303 20-04-0304 20-04-0307 20-04-0308	44.0	5	14	3 <sup>5</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	10 <sup>13</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>16</sub>	7/8	2 <sup>3</sup> / <sub>8</sub> •	3/4	1 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	5 <sup>7</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>
3 <sup>15</sup> / <sub>16</sub> 4	-----	20-04-0315 20-04-0400	65.0	6 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	---	4 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	---	2 <sup>1</sup> / <sub>4</sub>	3/4	1 <sup>1</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>2</sub>	5 <sup>15</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>4</sub>
4 <sup>7</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>2</sub>	-----	20-04-0407 20-04-0408	81.0	6 <sup>3</sup> / <sub>4</sub>	16 <sup>5</sup> / <sub>8</sub>	---	4 <sup>5</sup> / <sub>8</sub>	13 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	---	2 <sup>1</sup> / <sub>2</sub>	3/4	1 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	6 <sup>13</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>
4 <sup>15</sup> / <sub>16</sub> 5	-----	20-04-0415 20-04-0500	132.0	7 <sup>1</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>2</sub>	---	5 <sup>1</sup> / <sub>8</sub>	15 <sup>1</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub>	---	2 <sup>7</sup> / <sub>8</sub>	7/8	1 <sup>1</sup> / <sub>4</sub>	3	10 <sup>7</sup> / <sub>8</sub>	7 <sup>13</sup> / <sub>32</sub>	5 <sup>1</sup> / <sub>2</sub>

Gray iron housing furnished unless otherwise specified.

• 2-Bolt Base regularly furnished in sizes 2<sup>1</sup>/<sub>4</sub>" to 3<sup>1</sup>/<sub>2</sub>" inclusive. 4-Bolt Base will be furnished when specified.

## "Type E" Flange Bearings

"TYPE E" Flange Bearings offer all of the features of the pillow block series. They are available in shaft sizes from 1<sup>3</sup>/<sub>16</sub>" thru 4<sup>1</sup>/<sub>2</sub>". These units are well suited for mounting on horizontal or vertical frames or supports.

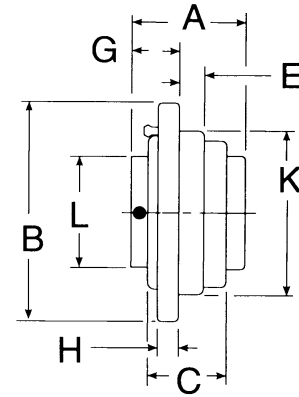
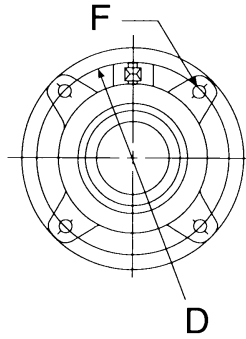


## "Type E" Flange Bearings (non-expansion type)

Shaft Size	Part Number	Wt.	A	B	C	D	E	F Bolt	H	J	L
1 <sup>3</sup> / <sub>16</sub> 1 <sup>1</sup> / <sub>4</sub>	20-05-0103 20-05-0104	4.5	2 <sup>13</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>11</sup> / <sub>32</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>8</sub>	1	2 <sup>15</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>
1 <sup>3</sup> / <sub>8</sub> 1 <sup>7</sup> / <sub>16</sub>	20-05-0106 20-05-0107	6.9	3 <sup>1</sup> / <sub>16</sub>	4 <sup>5</sup> / <sub>8</sub>	2 <sup>19</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>
1 <sup>1</sup> / <sub>2</sub> 1 <sup>5</sup> / <sub>8</sub> 1 <sup>11</sup> / <sub>16</sub>	20-05-0108 20-05-0110 20-05-0111	11.0	3 <sup>1</sup> / <sub>2</sub>	5 <sup>3</sup> / <sub>8</sub>	2 <sup>31</sup> / <sub>32</sub>	4 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>
1 <sup>3</sup> / <sub>4</sub> 1 <sup>7</sup> / <sub>8</sub> 1 <sup>15</sup> / <sub>16</sub> 2	20-05-0112 20-05-0114 20-05-0115 20-05-0200	12.0	3 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>32</sub>	4 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>
2 <sup>3</sup> / <sub>16</sub>	20-05-0203	16.0	3 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	3 <sup>9</sup> / <sub>32</sub>	4 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>
2 <sup>1</sup> / <sub>4</sub> 2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	20-05-0204 20-05-0207 20-05-0208	21.0	4 <sup>3</sup> / <sub>16</sub>	6 <sup>7</sup> / <sub>8</sub>	3 <sup>9</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub> 2 <sup>15</sup> / <sub>16</sub> 3	20-05-0211 20-05-0212 20-05-0215 20-05-0300	27.0	4 <sup>11</sup> / <sub>16</sub>	7 <sup>3</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	6	3 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>8</sub>	6	4 <sup>23</sup> / <sub>32</sub>
3 <sup>3</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>4</sub> 3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	20-05-0303 20-05-0304 20-05-0307 20-05-0308	52.0	5 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	7	1 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>16</sub>
3 <sup>15</sup> / <sub>16</sub> 4	20-05-0315 20-05-0400	75.0	6 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	7 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	5 <sup>15</sup> / <sub>16</sub>
4 <sup>7</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>2</sub>	20-05-0407 20-05-0408	88.0	7 <sup>3</sup> / <sub>32</sub>	10 <sup>7</sup> / <sub>8</sub>	5 <sup>15</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>4</sub>	1 <sup>11</sup> / <sub>32</sub>	7 <sup>7</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>32</sub>

## “Type E” Piloted Flange Bearings

“Type E” Piloted Flange Bearings are designed to be supported by the cartridge of the block. Their primary uses are in application where the majority of the housing is recessed in the structural member of the frame or support. Sizes up to 3 1/2” are of the single collar design while 3 15/16” thru 5” use dual locking collars.



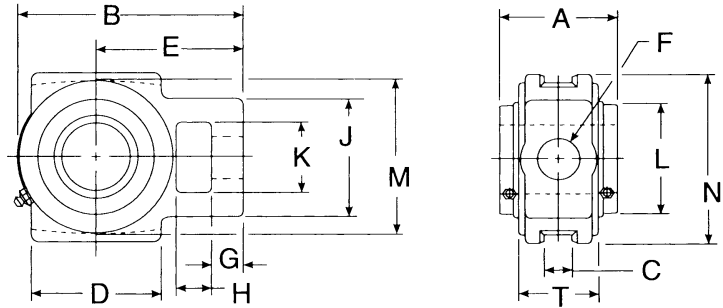
## “Type E” Piloted Flange Bearings (non-expansion type)

Shaft Size	Part Number	Wt.	A	B	C	D	E	F Bolt ♦	G	H	K *	L
1 3/16 1 1/4	20-06-0103 20-06-0104	5.1	2 3/4	5	2 7/32	4 1/8	3/4	3/8	1 5/16	7/16	3 3/8	2 1/4
1 3/8 1 7/16	20-06-0106 20-06-0107	6.3	3	5 1/4	2 15/32	4 3/8	7/8	3/8	1 1/2	1/2	3 5/8	2 3/4
1 1/2 1 5/8 1 11/16	20-06-0108 20-06-0110 20-06-0111	9.1	3 3/8	6 1/8	2 25/32	5 1/8	1 1/16	7/16	1 9/16	1/2	4 1/4	3 3/16
1 3/4 1 7/8 1 15/16 2	20-06-0112 20-06-0114 20-06-0115 20-06-0200	11.0	3 1/2	6 3/8	2 29/32	5 3/8	1 3/16	7/16	1 9/16	9/16	4 1/2	3 7/16
2 3/16	20-06-0203	14.0	3 3/4	7 1/8	3 3/32	6	1 3/16	1/2	1 11/16	9/16	5	3 3/4
2 1/4 2 7/16 2 1/2	20-06-0204 20-06-0207 20-06-0208	17.0	4	7 5/8	3 5/16	6 1/2	1 5/16	1/2	1 13/16	5/8	5 1/2	4 1/16
2 11/16 2 3/4 2 15/16 3	20-06-0211 20-06-0212 20-06-0215 20-06-0300	26.0	4 1/2	8 3/4	3 11/16	7 1/2	1 1/2	5/8	2	3/4	6 3/8	4 23/32
3 3/16 3 1/4 3 7/16 3 1/2	20-06-0303 20-06-0304 20-06-0307 20-06-0308	43.0	5	10 1/4	4 3/16	8 5/8	1 1/4	3/4	2 7/16	7/8	7 3/8	5 7/16
3 15/16 4	20-06-0315 20-06-0400	58.0	6 1/4	10 7/8	4 1/2	9 3/8	1 1/2	3/4	2 11/16	15/16	8 1/8	5 15/16
4 7/16 4 1/2	20-06-0407 20-06-0408	93.0	6 3/4	13 1/2	4 1/8	11 3/4	1 1/2	3/4 ♦	3 1/32	1	10 1/4	6 13/32
4 15/16 5	20-06-0415 20-06-0500	122.0	7 1/4	14 3/4	5 1/16	12 3/4	1 3/4	7/8 ♦	2 31/32	1 1/4	11	7 13/32

♦ 4 equally spaced unless otherwise noted. ♦ 6 equally spaced. \* +.000 -.002.

## “Type E” Wide Slot Take Up Bearings

“Type E” Wide Slot Take Up Bearings are designed for use in standard Center Pull Take-Up Frames or similar applications. These units have wide cast ways for supporting guides and are suitable for either horizontal or vertical applications.



## “Type E” Wide Slot Take-Up Bearings (non-expansion type)

Shaft Size	Part Number	Wt.	A	B	C	D	E	F Screw	G	H	J	K	L	M	N	T
1 <sup>3</sup> / <sub>8</sub> 1 <sup>7</sup> / <sub>16</sub>	20-07-0106 20-07-0107	7.5	3	5 <sup>3</sup> / <sub>32</sub>	1 <sup>7</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>32</sub>	3/4	1 <sup>1</sup> / <sub>16</sub>	5/8	2 <sup>7</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>16</sub>
1 <sup>1</sup> / <sub>2</sub> 1 <sup>5</sup> / <sub>8</sub> 1 <sup>11</sup> / <sub>16</sub>	20-07-0108 20-07-0110 20-07-0111	11.8	3 <sup>3</sup> / <sub>8</sub>	6	2 <sup>1</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>4</sub>	3 <sup>13</sup> / <sub>16</sub>	1	1 <sup>5</sup> / <sub>16</sub>	3/4	3 <sup>5</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	4	4 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>16</sub>
1 <sup>3</sup> / <sub>4</sub> 1 <sup>7</sup> / <sub>8</sub> 1 <sup>15</sup> / <sub>16</sub> 2	20-07-0112 20-07-0114 20-07-0115 20-07-0200	13	3 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>4</sub>	3 <sup>15</sup> / <sub>16</sub>	1	1 <sup>5</sup> / <sub>16</sub>	3/4	3 <sup>5</sup> / <sub>16</sub>	1 <sup>15</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	4	4 <sup>3</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>
2 <sup>3</sup> / <sub>16</sub>	20-07-0203	16	3 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>32</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1	1	3 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	2 <sup>9</sup> / <sub>16</sub>
2 <sup>1</sup> / <sub>4</sub> 2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	20-07-0204 20-07-0207 20-07-0208	22	4	7 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>32</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>8</sub>	6	2 <sup>3</sup> / <sub>4</sub>
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub> 2 <sup>15</sup> / <sub>16</sub> 3	20-07-0211 20-07-0212 20-07-0215 20-07-0300	29	4 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>8</sub>	1 <sup>25</sup> / <sub>32</sub>	4 <sup>3</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	4 <sup>23</sup> / <sub>32</sub>	5 <sup>15</sup> / <sub>16</sub>	6 <sup>3</sup> / <sub>4</sub>	3

## Metric Size “Type E” Bearings (non-expansion type)

Shaft Size (mm)	Housing Size	Pillow Blocks		Flange Bearings	Piloted Flange Bearings	Wide-Slot Take-Up Bearings
		2 Bolt-Base	4 Bolt-Base			
35	1 <sup>7</sup> / <sub>16</sub>	25-02-0035	---	25-05-0035	25-06-0035	25-07-0035
40	1 <sup>11</sup> / <sub>16</sub>	25-02-0040	---	25-05-0040	25-06-0040	25-07-0040
45 50	1 <sup>15</sup> / <sub>16</sub>	25-02-0045 25-02-0050	---	25-05-0045 25-05-0050	25-06-0045 25-06-0050	25-07-0045 25-07-0050
55	2 <sup>3</sup> / <sub>16</sub>	25-02-0055	---	25-05-0055	25-06-0055	25-07-0055
60 65	2 <sup>7</sup> / <sub>16</sub>	25-02-0060 25-02-0065	25-04-0060 25-04-0065	25-05-0060 25-05-0065	25-06-0060 25-06-0065	25-07-0060 25-07-0065
70 75	2 <sup>15</sup> / <sub>16</sub>	25-02-0070 25-02-0075	25-04-0070 25-04-0075	25-05-0070 25-05-0075	25-06-0070 25-06-0075	25-07-0070 25-07-0075
80 85 90	3 <sup>7</sup> / <sub>16</sub>	25-02-0080 25-02-0085 25-02-0090	25-04-0080 25-04-0085 25-04-0090	25-05-0080 25-05-0085 25-05-0090	25-06-0080 25-06-0085 25-06-0090	--- --- ---
100	3 <sup>15</sup> / <sub>16</sub>	---	25-04-0100	25-05-0100	25-06-0100	---
110 115	4 <sup>7</sup> / <sub>16</sub>	---	25-04-0110 25-04-0115	25-05-0110 25-05-0115	25-06-0110 25-06-0115	--- ---
125	4 <sup>15</sup> / <sub>16</sub>	---	25-04-0125	---	25-06-0125	---

## Selection—"Type E" Bearings

Royersford "Type E" tapered-roller bearings have the capacity to carry heavy radial loads, thrust loads and combined radial/thrust loads. The maximum recommended load which can be applied is limited by various components in the system, such as bearing, housing, shaft, shaft attachment, speed and life requirements as listed in this catalog.

Select a bearing from the "Type E" Selection Chart having a radial load rating at the operating speed equal to or greater than the calculated "Equivalent Radial Load" for a desired  $L_{10}$  Life. This simple method is all that is required for the majority of general applications and provides for occasional average shock loads. (Equivalent Radial Load = P.)

$L_{10}$  Hours Life-is the life which may be expected from at least 90% of a given group of bearings operating under identical conditions.

For a  $L_{10}$  Hours Life other than those listed in the selection chart, multiply the Equivalent Radial Load by one of the following factors. For 50,000  $L_{10}$  Hours Life use factor of 1.16; 80,000, 1.34. Then select a bearing from the bold face (30,000)  $L_{10}$  ratings only in the selection chart having rating equal to or greater than this value.

Heavy Service- For heavy shock loads, frequent shock loads or severe vibrations, add up to 50% (according to severity of conditions) to the Equivalent Radial Load to obtain a Modified Radial Load.

Thrust load values shown in the table below are recommended as a guide for general applications that will give adequate  $L_{10}$  life. Where substantial radial load is also present, it is advisable to calculate the  $L_{10}$  life to assure it meets the requirements. The maximum thrust load should not exceed the limits shown in the table labeled "Allowable Thrust-Pillow Block Housings." The effec-

tiveness of the shaft attachment to carry thrust load depends on proper tightening of the setscrews, shaft tolerance, and shaft deflections. Therefore, it is advisable to use auxiliary thrust carrying devices such as shaft shoulder, snap ring, or a thrust collar to locate the bearing under heavier thrust loads or where extreme reliability is desired.

RPM Range	20-200	201-2000	Over 2000
Recommended Thrust Load	$C_{90}/4$	$C_{90}/8$	$C_{90}/12$

The shaft tolerances recommended are adequate for normal radial, thrust, and radial/thrust load applications. The radial load is limited by the attachment to the shaft (see Table 1). Since the allowable load, especially at low speed, is very large, the shaft should be checked to assure adequate shaft strength.

The magnitude and direction of both the thrust and radial load must be taken into account when selecting a housing. When pillow blocks are utilized, heavy loads should be directed through the base. Where a load pulls the housing away from the mounting base, both the hold-down bolts and housing must be of adequate strength. Auxiliary load carrying devices such as shear bars are advisable for side or end loading of pillow blocks and radial loads for flange units.

To determine the  $L_{10}$  Hours Life for loads and RPM's not listed, use the following equation:

$$L_{10} = \left( \frac{C_{90}}{P} \right)^{10/3} \times \frac{1,500,000}{\text{RPM}}$$

Where:

$L_{10}$  = Life, Hours

$C_{90}$  = Dynamic Capacity, lbs. (Table 1)

P = Equivalent Radial Load, lbs.

When the load on a two row roller bearing is solely a radial load with no thrust (axial) load, the load is shared equally by both rows of rollers and the equivalent radial load (P) is equal to the actual radial load. However, when a thrust (axial) load is applied, the loading on the two rows is shared unequally depending on the ratio of thrust to radial load. The use of the X (radial factor) and Y (thrust factor) from Table 1 convert the actual applied thrust and radial loads to an equivalent radial load which has the same effect on the life of a bearing as a radial load of this magnitude.

$$P = XF_R + YF_A$$

Where :

P = Equivalent radial load, lbs.

$F_R$  = Radial load, lbs. - (See Table 1 for allowable slip fit maximum)

$F_A$  = Thrust (axial) load, lbs.

e = Thrust load to radial load factor (Table 1)

X = Radial load factor (Table 1)

Y = Thrust load factor (Table 1)

To find X and Y, first calculate  $F_A/F_R$  and compare to e. Determine X and Y from Table 1. Light thrust  $F_A/F_R$  less than or equal to e or heavy thrust  $F_A/F_R$  greater than e.

Substitute all known values into the equivalent radial load equation. The equivalent radial load (P) thus determined can be used in the  $L_{10}$  life formula or compared to the allowable equivalent radial load rating desired in the expanded rating table on page 4 to select a bearing.

If calculated value of P is less than  $F_R$  use  $P = F_R$

**Table 1—Radial/Thrust Factors**

Shaft Size	e	$F_A/F_R \leq e$		$F_A/F_R > e$		Dynamic Capacity $C_{90}^*$		Maximum RPM	Maximum Slip Fit Radial Load, $F_A^{**}$
		X	Y	X	Y	Lbs.	Newtons		
$1\frac{3}{16} - 1\frac{1}{4}$	.49	.87	1.77	.70	2.14	2,980	13,260	4,490	3,100
$1\frac{3}{8} - 1\frac{7}{16}$	.46	.87	1.89	.70	2.28	4,760	21,180	3,820	5,000
$1\frac{1}{2} - 1\frac{11}{16}$	.44	.87	1.96	.70	2.37	6,140	27,320	3,320	6,400
$1\frac{3}{4} - 2$	.33	.87	2.64	.70	3.18	8,070	35,908	3,050	8,400
$2\frac{3}{16}$	.36	.87	2.38	.70	2.87	8,550	38,044	2,730	8,900
$2\frac{1}{4} - 2\frac{1}{2}$	.40	.87	2.17	.70	2.63	9,090	40,447	2,420	9,500
$2\frac{11}{16} - 3\frac{1}{2}$	.46	.87	1.87	.70	2.26	9,600	42,716	2,060	10,000
$3\frac{3}{16} - 3\frac{1}{2}$	.50	.87	1.71	.70	2.07	15,300	68,078	1,640	16,000
$3\frac{5}{16} - 4$	.49	.87	1.77	.70	2.14	21,000	93,440	1,530	22,000
$4\frac{1}{16} - 4\frac{1}{2}$	.53	.87	1.63	.70	1.97	25,800	114,799	1,360	27,000
$4\frac{5}{16} - 5$	.47	.87	1.83	.70	2.21	35,500	157,959	1,200	35,000

## Allowable Thrust - Pillow Block Housings

Bore Size	$1\frac{3}{16} - 1\frac{1}{4}$	$1\frac{3}{8} - 1\frac{7}{16}$	$1\frac{1}{2} - 1\frac{11}{16}$	$1\frac{3}{4} - 2$	$2\frac{3}{16}$	$2\frac{1}{4} - 2\frac{1}{2}$	$2\frac{11}{16} - 3$	$3\frac{3}{16} - 3\frac{1}{2}$	$3\frac{5}{16} - 4$	$4\frac{1}{8} - 4\frac{1}{2}$	$3\frac{3}{16} - 3\frac{1}{2}$
2-Bolt	1300	2200	2200	2300	3300	3300	4500	5500	-----	-----	-----
4-Bolt	-----	-----	-----	-----	-----	3300	4500	16500	14600	13400	10600

\*  $C_{90}$  - Dynamic capacity based on a rated life of 90 million revolutions or 3000 hours at 500 RPM.

\*\* If load exceeds maximum allowable slip fit radial load ( $F_R$ ), line to the to-light press fit of shaft required. Maximum slip fit radial loads are recommended shaft tolerances are used.





## Journal Bearings

ROYERSFORD JOURNAL BEARINGS are simple compact units designed for base loads and continuous operation at moderate speeds. They are available in solid and split styles with babbitt or bronze bearing materials. Special materials are also available for unusual applications.

Babbitt bearings are used with ambient temperatures up to 130°F. Bronze bearings should be used for higher or impact loads and up to ambient temperature of 300°F. Other materials are available for higher temperatures if required.

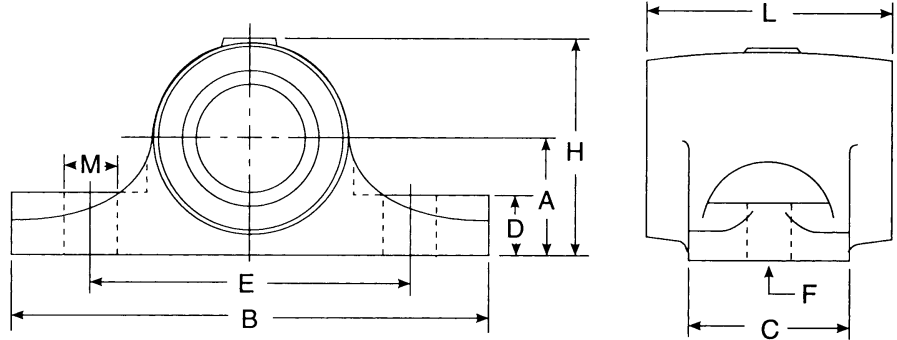
All bearings are broached or bored. Grease

grooves provide lubrication and housings are tapped to receive grease cups or pressure style fittings. Ends are finished to provide bearing surfaces for sheaves or collars. Mounting holes are slotted for ease in alignment and adjustment during installation.

All styles have these features with others to satisfy individual applications.

## Solid Journal Bearings

Solid journal bearings are used where a removable cap is not required. Loading range can be to within 30° of either side of the grease groove.

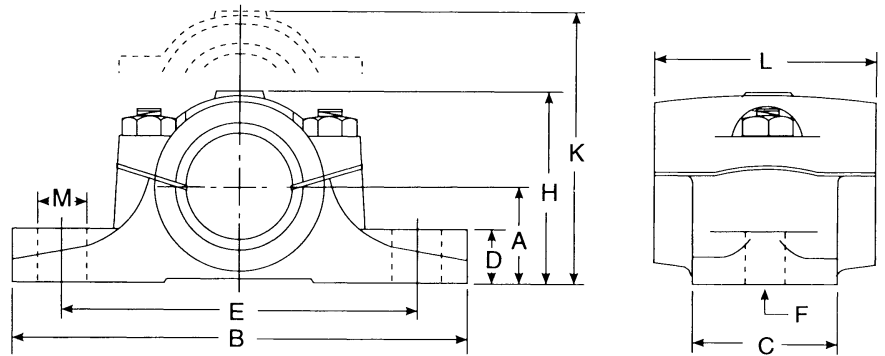


Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	H	L	M	Pipe Tap	
	Babbitt	Bronze												
1/2	60-01-0008	60-21-0008	0.6	3/4	3	1	5/16	2 1/8	5/16	1 3/8	1 3/8	1/2	1/8	
5/8	60-01-0010	60-21-0010	0.9	13/16	3 3/4	1 1/8	3/8	2 5/8	5/16	1 19/32	1 5/8	1/2	1/8	
	3/4	60-01-0012												60-21-0012
7/8	60-01-0014	60-21-0014	1.7	1 1/8	4 5/8	1 3/8	1/2	3 3/8	3/8	2 1/32	2	9/16	1/8	
	15/16	60-01-0015												60-21-0015
	1	60-01-0100												60-21-0100
1 1/8	60-01-0102	60-21-0102	3.0	1 3/8	5	1 5/8	5/8	3 5/8	3/8	2 15/32	2 1/2	5/8	1/8	
	1 3/16	60-01-0103												60-21-0103
	1 1/4	60-01-0104												60-21-0104
1 5/16	60-01-0105	60-21-0105	4.0	1 1/2	5 3/4	2	3/4	4	1/2	2 13/16	3	1 1/16	1/8	
	1 3/8	60-01-0106												60-21-0106
	1 7/16	60-01-0107												60-21-0107
	1 1/2	60-01-0108												60-21-0108
1 11/16	60-01-0111	60-21-0111	6.0	1 13/16	6 1/2	2 1/4	7/8	4 3/8	5/8	3 1/4	3 1/2	3/4	1/4	
	1 3/4	60-01-0112												60-21-0112
1 7/8	60-01-0114	60-21-0114	7.0	1 11/16	7	2 1/2	1	4 3/4	5/8	3 1/4	4	3/4	1/4	
	1 15/16	60-01-0115												60-21-0115
	2	60-01-0200												60-21-0200
2 3/16	60-01-0203	60-21-0203	10.0	2 1/8	7 5/8	2 3/4	1 1/16	5 1/4	5/8	3 29/32	4 1/2	7/8	1/4	
	2 1/4	60-01-0204												60-21-0204
2 7/16	60-01-0207	60-21-0207	12.5	2 1/8	8	3	1 1/8	5 3/4	5/8	4 1/8	5	7/8	1/4	
	2 1/2	60-01-0208												60-21-0208
2 11/16	60-01-0211	60-21-0211	14.5	2 3/8	9 3/8	3 1/4	1 1/8	6 1/2	3/4	4 1/2	5 1/2	1 1/8	1/4	
	2 3/4	60-01-0212												60-21-0212
2 15/16	60-01-0215	60-21-0215	19.5	2 1/2	10 1/2	3 1/2	1 1/4	7 3/8	3/4	4 13/16	6	1 1/4	3/8	
	3	60-01-0300												60-21-0300

Ryertex®, UHMW, Oilite® and other linings available. Price upon request.  
 Sizes not listed will be priced upon request.

## Split Journal Bearings

Split bearings are recommended for application where it is necessary to remove a cap for servicing or replacing a bearing. This style eliminates removing pulleys and couplings from the shaft when replacement is required. Loading range is limited to 30° below the joint. The angular parting of the cap is provided with shims to compensate for wear and adjustments.

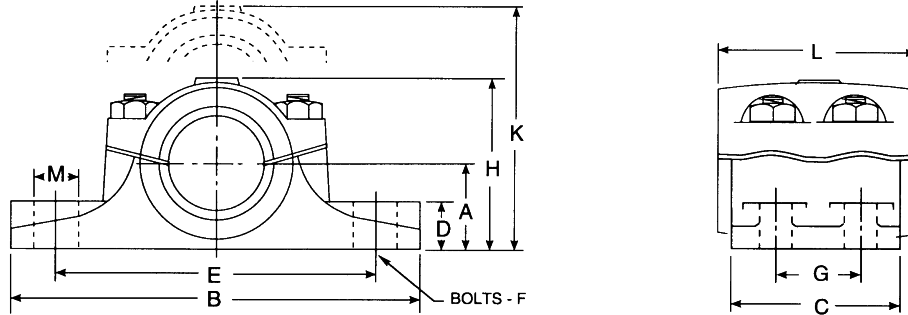


Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	H	K	L	M	Pipe Tap
	Babbitt	Bronze												
1/2	60-02-0008	----	0.7	3/4	3 3/4	1	3/8	2 7/8	5/16	1 1/2	2 1/8	1 3/8	1/2	1/8
5/8	60-02-0010	----	1.2	7/8	4 1/4	1 1/8	1/2	3 1/4	5/16	1 3/4	2 1/2	1 5/8	1/2	1/8
11/16	60-02-0011	----												
3/4	60-02-0012	----												
7/8	60-02-0014	----	1.9	1	4 3/4	1 3/8	9/16	3 5/8	3/8	2 1/16	3	2	9/16	1/8
15/16	60-02-0015	----												
1	60-02-0100	----												
1 1/16	60-02-0101	----	3.0	1 1/4	5 1/4	1 5/8	5/8	4 1/8	3/8	2 7/16	3 1/2	2 1/2	5/8	1/8
1 1/8	60-02-0102	----												
1 3/16	60-02-0103	----												
1 1/4	60-02-0104	----												
1 5/16	60-02-0105	----	4.0	1 3/8	6 1/4	2	3/4	4 7/8	1/2	2 11/16	3 7/8	3	1 1/16	1/8
1 3/8	60-02-0106	----												
1 7/16	60-02-0107	----												
1 1/2	60-02-0108	----												
1 5/8	60-02-0110	----	6.0	1 1/2	6 3/4	2 1/4	13/16	5 1/4	1/2	3	4 3/8	3 1/2	3/4	1/4
1 11/16	60-02-0111	----												
1 3/4	60-02-0112	----												
1 7/8	60-02-0114	60-22-0114	8.0	1 3/4	7 1/2	2 1/2	7/8	6	5/8	3 7/16	4 7/8	4	13/16	1/4
1 15/16	60-02-0115	60-22-0115												
2	60-02-0200	60-22-0200												
2 1/8	60-02-0202	60-22-0202	12.0	1 7/8	8 1/2	2 3/4	1	6 1/2	5/8	3 3/4	5 1/4	4 1/2	1	1/4
2 3/16	60-02-0203	60-22-0203												
2 1/4	60-02-0204	60-22-0204												
2 3/8	60-02-0206	60-22-0206	15.0	2 1/8	8 7/8	3	1 1/8	7	5/8	4 3/16	5 3/4	5	1	1/4
2 7/16	60-02-0207	60-22-0207												
2 1/2	60-02-0208	60-22-0208												
2 5/8	60-02-0210	60-22-0210	18.5	2 1/4	10	3 1/4	1 3/16	7 3/4	3/4	4 1/2	6 3/8	5 1/2	1 1/8	1/4
2 11/16	60-02-0211	60-22-0211												
2 3/4	60-02-0212	60-22-0212												
2 15/16	60-02-0215	60-22-0215	22.5	2 1/2	10 3/4	3 1/2	1 3/16	8 1/2	3/4	4 7/8	6 3/4	6	1 1/8	3/8
3	60-02-0300	60-22-0300												
3 7/16	60-02-0307	60-22-0307	35.0	2 7/8	12	4	1 1/2	9 1/4	7/8	5 5/8	7 5/8	7	1 3/8	1/2
3 15/16	60-02-0315	60-22-0315	46.0	3 1/8	13 1/2	4 1/2	1 5/8	10 1/2	1	6 3/16	8 1/2	8	1 1/2	1/2

Ryertex® UHMW, Oilite® and other linings available. Price upon request.  
 Sizes not listed will be priced upon request.

## Rigid Split Journal Bearings

This style has all the features of the regular split type and also accommodates the larger shaft sizes. Housings are larger for greater strength. Four-bolt bases in the smaller sizes and the addition of a four-bolt cap design for the larger sizes are especially useful for rugged applications demanding more rigidity.



### 4 Bolt Base - 2 Bolt Cap

Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Babbitt	Bronze													
1 <sup>15</sup> / <sub>16</sub> 2	60-03-0115 60-03-0200	60-23-0115 60-23-0200	10	1 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	1/2	1 <sup>3</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	4	3 <sup>3</sup> / <sub>4</sub>	1/4
2 <sup>3</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>4</sub>	60-03-0203 60-03-0204	60-23-0203 60-23-0204	13	1 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	1	6 <sup>3</sup> / <sub>4</sub>	1/2	1 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	1/4
2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	60-03-0207 60-03-0208	60-23-0207 60-23-0208	18	2 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	4	1 <sup>1</sup> / <sub>8</sub>	8	5/8	2	4 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>16</sub>	5	1	1/4
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub>	60-03-0211 60-03-0212	60-23-0211 60-23-0212	21	2 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	5/8	2 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	1	1/4
2 <sup>15</sup> / <sub>16</sub> 3	60-03-0215 60-03-0300	60-23-0215 60-23-0300	26	2 <sup>1</sup> / <sub>2</sub>	11	4 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	5/8	2 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	6	1	3/8

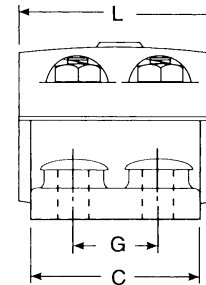
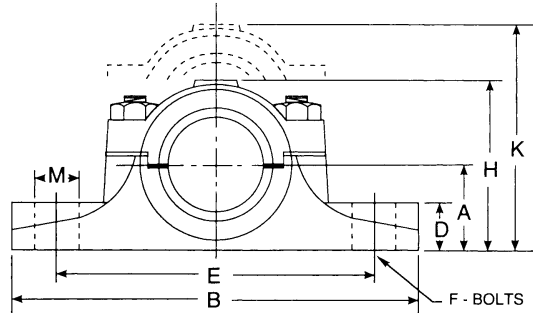
### 4 Bolt Base - 4 Bolt Cap

Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Babbitt	Bronze													
3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	60-03-0307 60-03-0308	60-23-0307 60-23-0308	43	3 <sup>1</sup> / <sub>4</sub>	13	5	1 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	3/4	2 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>8</sub>	7	1 <sup>1</sup> / <sub>4</sub>	1/2
3 <sup>15</sup> / <sub>16</sub> 4	60-03-0315 60-03-0400	60-23-0315 60-23-0400	62	3 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	12	3/4	3	6 <sup>13</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>8</sub>	8	1 <sup>3</sup> / <sub>8</sub>	1/2
4 <sup>7</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>2</sub>	60-03-0407 60-03-0408	60-23-0407 60-23-0408	86	4 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	7/8	3 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>8</sub>	9	1 <sup>1</sup> / <sub>2</sub>	1/2
4 <sup>15</sup> / <sub>16</sub> 5	60-03-0415 60-03-0500	60-23-0415 60-23-0500	116	4 <sup>1</sup> / <sub>2</sub>	18	7	1 <sup>7</sup> / <sub>8</sub>	15	7/8	4	8 <sup>9</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>4</sub>	10	1 <sup>5</sup> / <sub>8</sub>	1/2
5 <sup>7</sup> / <sub>16</sub> 5 <sup>1</sup> / <sub>2</sub>	60-03-0507 60-03-0508	60-23-0507 60-23-0508	166	5	19 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	2	15 <sup>3</sup> / <sub>4</sub>	1	4 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	11	1 <sup>3</sup> / <sub>4</sub>	1/2
5 <sup>15</sup> / <sub>16</sub> 6	60-03-0515 60-03-0600	60-23-0515 60-23-0600	198	5 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	5	10 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	12	1 <sup>7</sup> / <sub>8</sub>	1/2

Ryertex®, UHMW, Oilite® and other linings available. Price upon request.  
 Sizes not listed will be priced upon request.

## Rigid Split Journal Bearings- Gibbed Joint

Service requirements with side loading or angular pressures need bearings with a gibbed joint. These bearings enable loads to be accommodated to within 30° each side of the grease groove. They have all the features of the regular split bearings as well as the rigid style. These bearings are only available with bronze lining material.



### 4 Bolt Base - 2 Bolt Cap

Shaft Size	Part Number	Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Bronze													
1 <sup>15</sup> / <sub>16</sub> 2	60-33-0115	10	1 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	3 <sup>7</sup> / <sub>16</sub>	4 <sup>7</sup> / <sub>16</sub>	4	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>
	60-33-0200													
2 <sup>3</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>4</sub>	60-33-0203	13	1 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	1	6 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>
	60-33-0204													
2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	60-33-0207	18	2 <sup>1</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>	4	1 <sup>1</sup> / <sub>8</sub>	8	5 <sup>5</sup> / <sub>8</sub>	2	4 <sup>3</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>16</sub>	5	1	1 <sup>1</sup> / <sub>4</sub>
	60-33-0208													
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub>	60-33-0211	21	2 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub>	1	1 <sup>1</sup> / <sub>4</sub>
	60-33-0212													
2 <sup>15</sup> / <sub>16</sub> 3	60-33-0215	26	2 <sup>1</sup> / <sub>2</sub>	11	4 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	4 <sup>7</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>4</sub>	6	1	3 <sup>3</sup> / <sub>8</sub>
	60-33-0300													

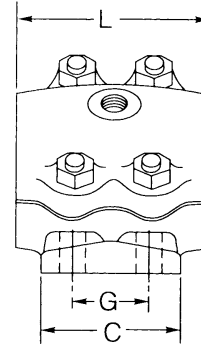
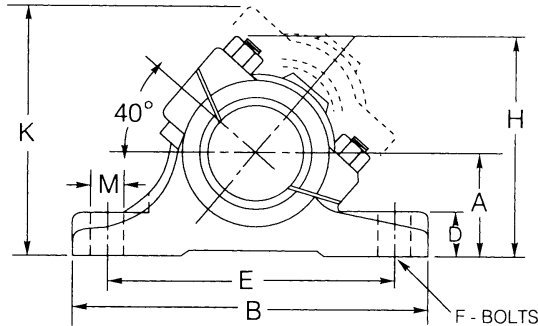
### 4 Bolt Base - 4 Bolt Cap

Shaft Size	Part Number	Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Bronze													
3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	60-33-0307	43	3 <sup>1</sup> / <sub>4</sub>	13	5	1 <sup>3</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>8</sub>	7	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0308													
3 <sup>15</sup> / <sub>16</sub> 4	60-33-0315	62	3 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	12	3 <sup>3</sup> / <sub>4</sub>	3	6 <sup>13</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>8</sub>	8	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0400													
4 <sup>7</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>2</sub>	60-33-0407	86	4 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	10 <sup>3</sup> / <sub>8</sub>	9	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0408													
4 <sup>15</sup> / <sub>16</sub> 5	60-33-0415	116	4 <sup>1</sup> / <sub>2</sub>	18	7	1 <sup>7</sup> / <sub>8</sub>	15	7 <sup>7</sup> / <sub>8</sub>	4	8 <sup>9</sup> / <sub>16</sub>	11 <sup>1</sup> / <sub>4</sub>	10	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0500													
5 <sup>7</sup> / <sub>16</sub> 5 <sup>1</sup> / <sub>2</sub>	60-33-0507	166	5	19 <sup>1</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	2	15 <sup>3</sup> / <sub>4</sub>	1	4 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>4</sub>	11	1 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0508													
5 <sup>15</sup> / <sub>16</sub> 6	60-33-0515	198	5 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	5	10 <sup>1</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	12	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
	60-33-0600													

Ryertex®, UHMW, Oilite® and other linings available. Price upon request.  
 Sizes not listed will be priced upon request.

## Rigid 40° Angle Split Journal Bearings

These bearings are of the standard rigid split style with the exception of the cap being a 40° angle to the base rather than parallel. They incorporate the 120° loading range but accommodate applications where the base may not be parallel with the ground such as a conveyor drive mechanism.



### 4 Bolt Base - 2 Bolt Cap

Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Babbitt	Bronze													
1 <sup>15</sup> / <sub>16</sub>	60-05-0115	60-25-0115	11	2 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	7 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>2</sub>	1/2	1 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	4	3 <sup>3</sup> / <sub>4</sub>	1/4
2 <sup>3</sup> / <sub>16</sub>	60-05-0203	60-25-0203	14	2 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	1	6 <sup>3</sup> / <sub>4</sub>	1/2	1 <sup>3</sup> / <sub>4</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>4</sub>	1/4
2 <sup>7</sup> / <sub>16</sub>	60-05-0207	60-25-0207	16	2 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	4	1 <sup>1</sup> / <sub>8</sub>	8	5/8	2	5 <sup>5</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>8</sub>	5	1	1/4
2 <sup>11</sup> / <sub>16</sub>	60-05-0211	60-25-0211	28	3	10 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	5/8	2 <sup>1</sup> / <sub>4</sub>	6	7	5 <sup>1</sup> / <sub>2</sub>	1	1/4
2 <sup>15</sup> / <sub>16</sub>	60-05-0215	60-25-0215	30	3 <sup>1</sup> / <sub>4</sub>	11	4 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	5/8	2 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	6	1	3/8

### 4 Bolt Base - 4 Bolt Cap

Shaft Size	Part Number		Wt.	A	B	C	D	E	F-Dia. Bolt	G	H	K	L	M	Pipe Tap
	Babbitt	Bronze													
3 <sup>7</sup> / <sub>16</sub>	60-05-0307	60-25-0307	42	3 <sup>1</sup> / <sub>2</sub>	13	5	1 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>2</sub>	3/4	2 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>8</sub>	9	7	1 <sup>1</sup> / <sub>4</sub>	1/2
3 <sup>15</sup> / <sub>16</sub>	60-05-0315	60-25-0315	60	3 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>	12	3/4	3	8 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>4</sub>	8	1 <sup>3</sup> / <sub>8</sub>	1/2
4 <sup>7</sup> / <sub>16</sub>	60-05-0407	60-25-0407	86	4 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	7/8	3 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>8</sub>	11	9	1 <sup>1</sup> / <sub>2</sub>	1/2
4 <sup>15</sup> / <sub>16</sub>	60-05-0415	60-25-0415	120	4 <sup>1</sup> / <sub>2</sub>	18	7	1 <sup>7</sup> / <sub>8</sub>	15	7/8	4	9 <sup>3</sup> / <sub>4</sub>	12	10	1 <sup>5</sup> / <sub>8</sub>	1/2
5 <sup>7</sup> / <sub>16</sub>	60-05-0507	60-25-0507	163	5	19 <sup>3</sup> / <sub>4</sub>	8	2	15 <sup>3</sup> / <sub>4</sub>	1	4 <sup>1</sup> / <sub>2</sub>	10 <sup>13</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	11	1 <sup>7</sup> / <sub>8</sub>	1/2
5 <sup>15</sup> / <sub>16</sub>	60-05-0515	60-25-0515	191	5 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	5	11 <sup>5</sup> / <sub>16</sub>	14 <sup>5</sup> / <sub>8</sub>	12	1 <sup>7</sup> / <sub>8</sub>	1/2

Ryertex®, UHMW, Oilite® and other linings available. Price upon request.  
 Sizes not listed will be priced upon request.



### OPERATING CONDITIONS APPLICABLE TO RADIAL LOAD RATINGS FOR BABBITTED AND BRONZE BUSHED BEARINGS, PILLOW BLOCKS AND TAKEUPS OF THE RIGID GREASE LUBRICATED TYPE.

Load ratings for Rigid Babbitted and Bronze Bearings apply ONLY if the following conditions are met:

1. Adequate grease lubrication must be maintained.
2. Proper bearing alignment for uniform distribution of load under all operating conditions must be provided and maintained.
3. Normal running loads should not exceed ratings shown in the load tables. Starting and occasional peak loads should not exceed ratings by more than 100%.
4. Direction of load should not be closer than 30° to grease groove. If bearing has a cap which is not gibbed or dowelled to base, load should be on base and should not be closer than 30° to joint between cap and base.
5. The shaft journal surface finish must be equal to that of commercial steel shafting, (about 32 micro inches) and the diameter within the tolerances of commercial steel shafting.
6. Ambient (surrounding) temperature should not exceed 130°F for babbitted and 300°F for bronze bushed bearings. If the shaft transmits heat from a source such as an oven, the shaft temperature at the bearing should not exceed the above ambient temperature.
7. Bearings should be protected against adverse operating conditions.

Note: If the aforementioned operating conditions cannot be met, apply a service factor depending on the specific application of up to 2.0 for areas in the rating table to the left of the zigzag line and of up to 3.0 for areas to the right . . . Ratings are for bearings having a length of approximately twice the diameter.

### MPTA RADIAL LOAD RATINGS FOR RIGID BABBITTED SLEEVE BEARINGS STD. NO. 401

Shaft Size	RPM															
	10	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000
1/2	100	100	100	95	95	95	95	95	90	90	90	85	85	85	80	80
3/8	150	150	145	145	140	140	135	135	130	130	125	125	120	115	110	110
1/4	180	175	175	170	170	165	160	160	155	155	150	145	140	130	125	120
7/8	260	255	250	245	240	235	230	225	220	215	210	200	190	180	150	----
15/16	280	275	265	260	255	250	245	240	235	225	220	210	200	185	105	----
1	295	290	285	280	270	265	260	250	245	240	230	220	205	----	----	----
1 1/8	415	410	400	390	380	370	355	345	335	325	315	295	245	----	----	----
1 3/16, 1 1/4	440	430	420	410	395	385	375	360	350	340	325	305	190	----	----	----
1 5/16, 1 3/8	585	570	555	535	520	505	485	470	455	435	420	345	----	----	----	----
1 7/16, 1 1/2	640	625	605	585	565	545	525	500	480	460	440	205	----	----	----	----
1 11/16, 1 3/4	875	850	820	785	755	720	690	655	625	590	340	----	----	----	----	----
1 15/16, 2	1150	1110	1060	1010	965	915	865	815	730	335	----	----	----	----	----	----
2 1/16, 2 1/4	1460	1400	1330	1260	1190	1120	1050	975	410	----	----	----	----	----	----	----
2 1/8, 2 1/2	1800	1730	1630	1530	1430	1340	1240	645	----	----	----	----	----	----	----	----
2 11/16, 2 3/4	2190	2080	1950	1820	1690	1560	1150	110	----	----	----	----	----	----	----	----
2 5/8, 3	2600	2470	2300	2130	1960	1790	675	----	----	----	----	----	----	----	----	----
3 1/8, 3 1/2	3550	3330	3060	2790	2520	1200	----	----	----	----	----	----	----	----	----	----
3 5/8, 4	4640	4310	3910	3500	2760	----	----	----	----	----	----	----	----	----	----	----
4 1/8, 4 1/2	5870	5410	4830	4250	1410	----	----	----	----	----	----	----	----	----	----	----
4 5/8, 5	7240	6600	5810	5010	----	----	----	----	----	----	----	----	----	----	----	----
5 1/8, 5 1/2	8750	7900	6840	4360	FOR SPEEDS LOWER THAN 10 RPM CONSULT FACTORY.											
5 5/8, 6	10410	9300	7910	2390	FOR SPEEDS LOWER THAN 10 RPM CONSULT FACTORY.											

### MPTA RADIAL LOAD RATINGS FOR RIGID BRONZE SLEEVE BEARINGS STD. NO. 401

Shaft Size	RPM															
	10	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000
3/8	250	250	245	245	245	240	240	235	235	230	225	220	220	215	210	210
1/4	300	300	295	295	290	285	285	280	280	275	270	265	260	255	250	240
7/8	435	430	425	420	415	410	405	400	395	390	385	375	365	355	325	245
15/16	465	460	455	450	445	435	430	425	420	415	410	395	385	375	295	200
1	495	490	485	480	470	465	460	450	445	440	430	420	405	360	255	150
1 1/8	700	690	680	670	660	650	640	630	620	605	595	575	525	360	195	----
1 3/16, 1 1/4	735	730	715	705	695	680	670	660	645	635	625	600	485	300	115	----
1 5/16, 1 3/8	980	965	950	930	915	895	880	865	845	830	815	735	465	195	----	----
1 7/16, 1 1/2	1070	1050	1030	1010	995	975	955	935	915	895	875	635	315	----	----	----
1 11/16, 1 3/4	1470	1440	1410	1370	1340	1310	1280	1240	1210	1180	930	410	----	----	----	----
1 15/16, 2	1920	1880	1830	1790	1740	1690	1640	1590	1500	1110	715	----	----	----	----	----
2 1/16, 2 1/4	2440	2390	2320	2240	2170	2100	2030	1960	1390	830	265	----	----	----	----	----
2 1/8, 2 1/2	3020	2940	2850	2750	2650	2560	2460	1860	1090	----	----	----	----	----	----	----
2 11/16, 2 3/4	3660	3560	3430	3300	3170	3040	2620	1580	545	----	----	----	----	----	----	----
2 5/8, 3	4370	4230	4060	3890	3720	3550	2440	----	----	----	----	----	----	----	----	----
3 1/8, 3 1/2	5960	5740	5470	5200	4930	3610	1440	----	----	----	----	----	----	----	----	----
3 5/8, 4	7790	7460	7060	6650	5910	----	----	----	----	----	----	----	----	----	----	----
4 1/8, 4 1/2	9860	9400	8820	8240	5400	----	----	----	----	----	----	----	----	----	----	----
4 5/8, 5	12180	11540	10740	9950	4090	----	----	----	----	----	----	----	----	----	----	----
5 1/8, 5 1/2	14740	13880	12820	10340	FOR SPEEDS LOWER THAN 10 RPM CONSULT FACTORY.											
5 5/8, 6	17530	16420	15040	9520	FOR SPEEDS LOWER THAN 10 RPM CONSULT FACTORY.											

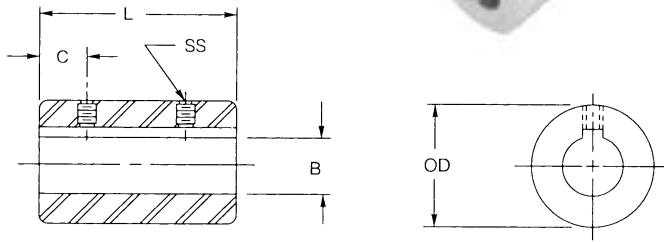
## Rigid Couplings

Shaft couplings are used to connect two shafts in line and transmit power from one to the other. Rigid couplings provide a fixed union between the shafts where misalignment is not present. Special couplings can

be adapted to connect shafts of different diameters. Standard material is high-strength grey iron suitable to transmit the rated load capacities of C1018 commercial shafting. Couplings are finished machined

to insure proper balance. Bolt heads and nuts are shielded by the flange or ribs to insure safety. Keys are furnished for all couplings. Bearings should be positioned as close as possible to the couplings.

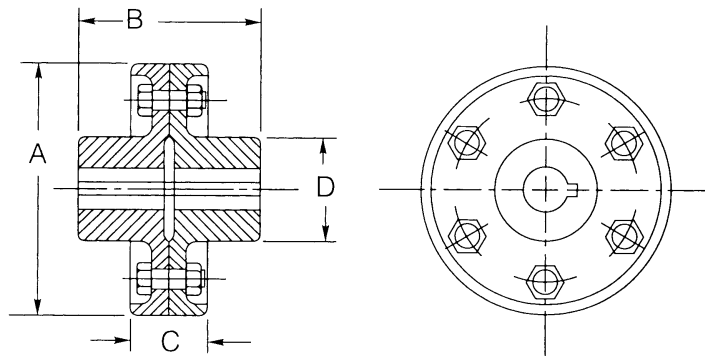
## Rigid Sleeve Coupling (Steel)



Part Number	OD	L	B	C	Set Screw	Keyway Size
60-13-0004	.50	.75	.25	.19	8-32 x 1/8	None
60-13-0005	.63	1.00	.31	.25	8-32 x 1/8	None
60-13-0006	.75	1.00	.37	.25	10-24 x 1/8	None
60-13-0008	1.00	1.50	.50	.38	1/4-20 x 1/4	1/8 x 1/16
60-13-0010	1.25	2.00	.62	.50	5/16-18 x 5/16	3/16 x 3/32
60-13-0012	1.50	2.00	.75	.50	5/16-18 x 3/8	3/16 x 3/32
60-13-0014	1.75	2.00	.87	.50	5/16-18 x 3/8	3/16 x 3/32
60-13-0100	2.00	3.00	1.00	.75	3/8-16 x 1/2	1/4 x 1/8
60-13-0102	2.13	3.00	1.12	.75	3/8-16 x 1/2	1/4 x 1/8
60-13-0104	2.25	4.00	1.25	1.00	3/8-16 x 1/2	1/4 x 1/8
60-13-0106	2.50	4.50	1.37	1.00	3/8-16 x 1/2	5/16 x 5/32

## Rigid Flange Coupling

This style coupling is used where the smallest overall length is necessary and ease of installation is not a factor. Couplings are fitted to the shafts and use tapered keys. Shaft sizes of 3 1/16" and above have male and female type construction.



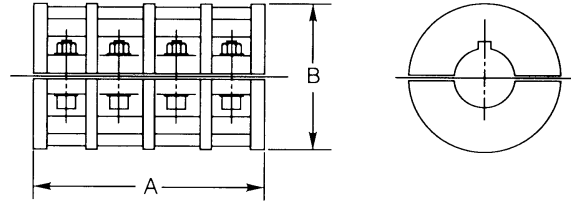
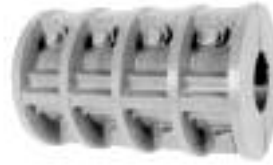
Shaft Size	Part Number	Weight	A	B	C	D	Keyway	Bolts	
								No.	Size
1 5/16	60-07-0015	6.0	4 7/8	3 1/4	1 5/8	1 7/8	1/4	3	1/2
1 3/16	60-07-0103	16.5	6 3/4	4 7/8	2 1/8	2 3/4	1/4	4	1/2
1 7/16	60-07-0107	25	7 5/8	5 5/8	2 3/8	3 3/8	3/8	5	1/2
1 11/16	60-07-0111	36	8 3/8	6 1/2	2 1/2	4	3/8	5	5/8
1 15/16	60-07-0115	49	9	7 3/8	2 7/8	4 1/2	1/2	5	5/8
2 3/16	60-07-0203	59	9 1/2	8 1/4	3	5	1/2	5	5/8
2 7/16	60-07-0207	70	10 1/4	9	3 1/4	5 1/4	5/8	6	5/8
2 15/16	60-07-0215	98	10 7/8	10	3 1/4	6 1/4	3/4	6	3/4
3 7/16	60-07-0307	120	12 1/4	10 7/8	3 3/8	6 3/4	7/8	6	3/4
3 15/16	60-07-0315	160	13	11 1/8	3 7/8	8	1	6	3/4
4 7/16	60-07-0407	190	14 3/8	11 3/8	4 1/8	8 1/2	1	6	7/8
4 15/16	60-07-0415	375	16 1/2	13 7/8	5 3/4	10 1/2	1 1/4	8	7/8
5 7/16	60-07-0507	450	17 3/4	14 3/4	6	10 3/4	1 1/4	8	7/8
5 15/16	60-07-0515	530	19	16	6 1/2	11 1/4	1 1/2	8	1

Sizes not listed—Reducers—Special Keyways—Male & Female Construction—Metric Bores—Made to order—Priced upon request. Flange Couplings are bored undersize for a press fit unless otherwise requested.



## Rigid Clamp Coupling

Clamp couplings are used when ease of installation and removal is advantageous. Pulleys and bearings do not need to be removed for replacement. The coupling is bored with shims in place which are removed for installation enabling a clamp fit on the shaft over a straight key.



Shaft Size	Part Number	Weight	A	B	Keyway	Bolts	
						No.	Size
$1\frac{5}{16}$ 1	60-08-0015 60-08-0100	9	$5\frac{3}{8}$	4	$\frac{1}{4}$	4	$\frac{1}{2}$
$1\frac{1}{8}$ $1\frac{3}{16}$ $1\frac{1}{4}$	60-08-0102 60-08-0103 60-08-0104	12	$6\frac{1}{4}$	$4\frac{1}{4}$	$\frac{1}{4}$	4	$\frac{1}{2}$
$1\frac{5}{16}$ $1\frac{3}{8}$ $1\frac{7}{16}$ $1\frac{1}{2}$	60-08-0105 60-08-0106 60-08-0107 60-08-0108	$15\frac{1}{2}$	$7\frac{1}{8}$	$4\frac{1}{2}$	$\frac{3}{8}$	6	$\frac{1}{2}$
$1\frac{5}{8}$ $1\frac{11}{16}$ $1\frac{3}{4}$	60-08-0110 60-08-0111 60-08-0112	24	$8\frac{1}{4}$	$5\frac{1}{8}$	$\frac{3}{8}$	6	$\frac{5}{8}$
$1\frac{7}{8}$ $1\frac{15}{16}$ 2	60-08-0114 60-08-0115 60-08-0200	29	$8\frac{5}{8}$	$5\frac{1}{2}$	$\frac{1}{2}$	6	$\frac{5}{8}$
$2\frac{1}{8}$ $2\frac{3}{16}$ $2\frac{1}{4}$	60-08-0202 60-08-0203 60-08-0204	32	$9\frac{5}{16}$	$5\frac{3}{4}$	$\frac{1}{2}$	6	$\frac{3}{4}$
$2\frac{3}{8}$ $2\frac{7}{16}$ $2\frac{1}{2}$	60-08-0206 60-08-0207 60-08-0208	$41\frac{1}{2}$	$9\frac{7}{8}$	$6\frac{1}{4}$	$\frac{5}{8}$	6	$\frac{3}{4}$
$2\frac{5}{8}$ $2\frac{11}{16}$ $2\frac{3}{4}$	60-08-0210 60-08-0211 60-08-0212	51	$10\frac{7}{8}$	$7\frac{1}{4}$	$\frac{5}{8}$	6	$\frac{3}{4}$
$2\frac{7}{8}$ $2\frac{15}{16}$ 3	60-08-0214 60-08-0215 60-08-0300	63	12	$7\frac{1}{4}$	$\frac{3}{4}$	6	$\frac{7}{8}$
$3\frac{3}{16}$ $3\frac{1}{4}$	60-08-0303 60-08-0304	72	$12\frac{7}{8}$	$7\frac{7}{8}$	$\frac{3}{4}$	6	$\frac{7}{8}$
$3\frac{7}{16}$ $3\frac{1}{2}$	60-08-0307 60-08-0308	80	$13\frac{1}{2}$	8	$\frac{7}{8}$	6	$\frac{7}{8}$
$3\frac{11}{16}$	60-08-0311	136	$14\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{8}$	6	$\frac{7}{8}$
$3\frac{15}{16}$ 4	60-08-0315 60-08-0400	166	$15\frac{1}{2}$	$10\frac{1}{4}$	1	6	1
$4\frac{7}{16}$ $4\frac{1}{2}$	60-08-0407 60-08-0408	234	$17\frac{1}{2}$	11	1	8	1
$4\frac{15}{16}$ 5	60-08-0415 60-08-0500	294	$18\frac{3}{8}$	$11\frac{3}{4}$	$\frac{1}{4}$	8	$1\frac{1}{8}$
$5\frac{7}{16}$ $5\frac{1}{2}$	60-08-0507 60-08-0508	399	$19\frac{1}{4}$	$14\frac{1}{4}$	$\frac{1}{4}$	8	$1\frac{1}{4}$
$5\frac{15}{16}$ 6	60-08-0515 60-08-0600	578	20	16	$\frac{1}{2}$	8	$1\frac{3}{8}$

Sizes not listed—Reducers—Special Keyways—Metric Bores—Ductile Iron or Steel—Made to order—Priced upon request.

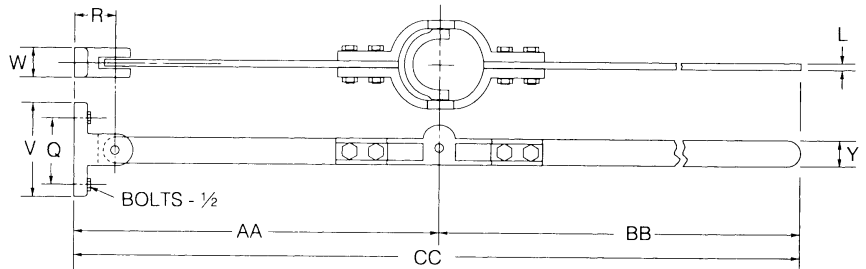
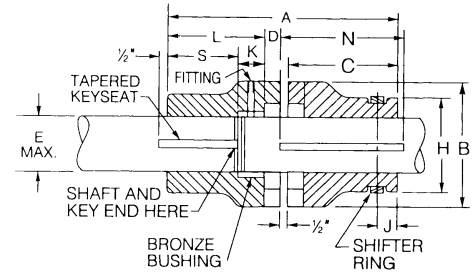
## Rigid Jaw Clutch Coupling

These couplings are used to positively connect and disconnect rotating shafts where engagement and disengagement is not frequent. Couplings are machined all over to ensure precise engagement.

Square jaws are used where engagement and disengagement under power or in motion is not required. They transmit power in both directions.

Spiral jaw couplings are made in right or left hand style and will transmit power in only one direction. They can be engaged or disengaged at low speeds. Sprocket attachments are available to function as a chain drive.

A shifting lever mechanism is available at additional cost.



Shaft Size	Part Number		Wt.	A	B	C	D	E	H	J	K	L	N	S	Keyway
	Square Jaw	Spiral Jaw													
1 <sup>7</sup> / <sub>16</sub>	60-15-0107	60-16-0107	16.0	8 <sup>1</sup> / <sub>2</sub>	4	4	7 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>
1 <sup>11</sup> / <sub>16</sub>	60-15-0111	60-16-0111	21.2	9 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	3 <sup>11</sup> / <sub>16</sub>	1	5 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>
1 <sup>15</sup> / <sub>16</sub>	60-15-0115	60-16-0115	22.5	9 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>16</sub>	1	2	4	1	5 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>3</sup> / <sub>16</sub>	60-15-0203	60-16-0203	31.2	9 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>8</sub>	1	3 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>7</sup> / <sub>16</sub>	60-15-0207	60-16-0207	35.9	10	6	4 <sup>3</sup> / <sub>4</sub>	1	2 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>	1	1	3 <sup>3</sup> / <sub>4</sub>	5 <sup>9</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>
2 <sup>15</sup> / <sub>16</sub>	60-15-0215	60-16-0215	47.1	10 <sup>1</sup> / <sub>2</sub>	7	5	1	3	5 <sup>1</sup> / <sub>8</sub>	1	1 <sup>1</sup> / <sub>4</sub>	4	5 <sup>7</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>
3 <sup>7</sup> / <sub>16</sub>	60-15-0307	60-16-0307	71.6	11 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	1	3 <sup>1</sup> / <sub>2</sub>	6	1 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
3 <sup>15</sup> / <sub>16</sub>	60-15-0315	60-16-0315	103.0	14 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>2</sub>	7	1 <sup>1</sup> / <sub>8</sub>	4	7	1 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	5 <sup>7</sup> / <sub>8</sub>	8	4 <sup>1</sup> / <sub>8</sub>	1
4 <sup>7</sup> / <sub>16</sub>	60-15-0407	60-16-0407	156.0	21	11	7	1 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	2	5 <sup>7</sup> / <sub>8</sub>	8	3 <sup>7</sup> / <sub>8</sub>	1
4 <sup>15</sup> / <sub>16</sub>	60-15-0415	60-16-0415	223.0	22 <sup>1</sup> / <sub>4</sub>	11	10 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	5	8 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	2	9 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>
5 <sup>7</sup> / <sub>16</sub>	60-15-0507	60-16-0507	264.0	24	12	11 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	2	2 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	12 <sup>7</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>4</sub>
5 <sup>15</sup> / <sub>16</sub>	60-15-0515	60-16-0515	314.0	25	13	12 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	6	9 <sup>1</sup> / <sub>4</sub>	2	2 <sup>1</sup> / <sub>2</sub>	10 <sup>3</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>

Sprocket attachments—Sizes not listed—Reducers—Metric Bores—Special Keyways—Ductile Iron or Steel clutches—Bronze Pilot Bushing—Available on special order - Price upon request.

## Lever Assemblies

Shaft Size	Part Number	AA	BB	CC	L	Q	R	V	W	Y
1 <sup>7</sup> / <sub>16</sub>	60-17-0107	22	38 <sup>1</sup> / <sub>4</sub>	60 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
1 <sup>11</sup> / <sub>16</sub>	60-17-0111	22 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>2</sub>	60 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
1 <sup>15</sup> / <sub>16</sub>	60-17-0115	22 <sup>1</sup> / <sub>4</sub>	38 <sup>1</sup> / <sub>2</sub>	60 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>3</sup> / <sub>16</sub>	60-17-0203	23	39	62	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>7</sup> / <sub>16</sub>	60-17-0207	23	39	62	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>15</sup> / <sub>16</sub>	60-17-0215	23 <sup>1</sup> / <sub>4</sub>	39 <sup>1</sup> / <sub>4</sub>	62 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>
3 <sup>7</sup> / <sub>16</sub>	60-17-0307	23 <sup>5</sup> / <sub>8</sub>	39 <sup>3</sup> / <sub>4</sub>	63 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	2
3 <sup>15</sup> / <sub>16</sub>	60-17-0315	23 <sup>5</sup> / <sub>8</sub>	40 <sup>1</sup> / <sub>8</sub>	63 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	2
4 <sup>7</sup> / <sub>16</sub>	60-17-0407	27	43 <sup>1</sup> / <sub>4</sub>	70 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	1 <sup>7</sup> / <sub>8</sub>	2
4 <sup>15</sup> / <sub>16</sub>	60-17-0415	30	48	78	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	2	2
5 <sup>7</sup> / <sub>16</sub>	60-17-0507	30	54	84	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>
5 <sup>15</sup> / <sub>16</sub>	60-17-0515	30	60	90	1 <sup>1</sup> / <sub>2</sub>	4	2 <sup>1</sup> / <sub>2</sub>	6	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>

## Safety Set Collars

Collars are used for positioning shafts by locating them against the faced ends of bearings. They can also be used with pulleys and sprockets to prevent axial movement.

## Solid Steel Shaft Collars

Solid steel collars are made from cold-rolled steel and available in sizes up to 3". They are smaller than iron collars and are used when space and appearance are important.



Shaft Size	Part Number	Weight Ounces	Outside Diameter	Width	Set Screw
3/16	60-12-0003	1/4	7/16	1/4	#8
1/4	60-12-0004	1/4	1/2	9/32	#10
5/16	60-12-0005	1/2	5/8	11/32	#10
3/8	60-12-0006	1/2	3/4	3/8	1/4
7/16	60-12-0007	1	7/8	7/16	1/4
1/2	60-12-0008	1 1/8	1	7/16	1/4
9/16	60-12-0009	1 1/8			
5/8	60-12-0010	1 1/2	1 1/8	1/2	5/16
11/16	60-12-0011	2	1 1/4	9/16	5/16
3/4	60-12-0012	2			
13/16	60-12-0013	2	1 5/16	9/16	5/16
7/8	60-12-0014	2 1/2	1 1/2	9/16	5/16
15/16	60-12-0015	3 1/4	1 5/8	9/16	5/16
1	60-12-0100	4	1 5/8	5/8	5/16
1 1/16	60-12-0101	4 1/4			
1 1/8	60-12-0102	3 3/4	1 3/4	5/8	5/16
1 3/16	60-12-0103	5 3/4			
1 1/4	60-12-0104	5 3/4	2	11/16	3/8
1 5/16	60-12-0105	6 1/2	2 1/8	11/16	3/8
1 3/8	60-12-0106	6 1/2	2 1/8	3/4	3/8
1 7/16	60-12-0107	7 3/4			
1 1/2	60-12-0108	7 1/2	2 1/4	3/4	3/8
1 9/16	60-12-0109	10 3/4			
1 5/8	60-12-0110	10	2 1/2	13/16	3/8
1 11/16	60-12-0111	9 1/4			
1 3/4	60-12-0112	13 1/2			
1 13/16	60-12-0113	13	2 3/4	7/8	1/2
1 7/8	60-12-0114	12 1/4			
1 15/16	60-12-0115	16 1/4			
2	60-12-0200	16	3	7/8	1/2
2 1/8	60-12-0202	16			
2 3/16	60-12-0203	18 1/2			
2 1/4	60-12-0204	17 1/2	3 1/4	15/16	1/2
2 5/16	60-12-0205	17 1/4			
2 3/8	60-12-0206	17			
2 7/16	60-12-0207	21 3/4			
2 1/2	60-12-0208	20 3/4	3 1/2	1	1/2
2 9/16	60-12-0209	30	3 3/4	1 1/8	1/2
2 11/16	60-12-0211	35			
2 3/4	60-12-0212	34	4	1 1/8	1/2
2 15/16	60-12-0215	38			
3	60-12-0300	36	4 1/4	1 1/8	1/2

## Solid Cast Iron Shaft Collars

Solid cast iron collars are the heavy-duty type and are available up to 8" shaft size. They are machined all over and fastened to the shaft with socket head screws.



Shaft Size	Part Number	Weight	Outside Diameter	Width
1 <sup>15</sup> / <sub>16</sub> 2	60-10-0115 60-10-0200	1 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>
2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	60-10-0207 60-10-0208	3	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
2 <sup>15</sup> / <sub>16</sub> 3	60-10-0215 60-10-0300	5	5	1 <sup>5</sup> / <sub>8</sub>
3 <sup>3</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>4</sub>	60-10-0303 60-10-0304	7	5 <sup>1</sup> / <sub>2</sub>	1 <sup>5</sup> / <sub>8</sub>
3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	60-10-0307 60-10-0308	8	5 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>
3 <sup>11</sup> / <sub>16</sub>	60-10-0311	9	6 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>
3 <sup>15</sup> / <sub>16</sub> 4	60-10-0315 60-10-0400	10 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>8</sub>
4 <sup>3</sup> / <sub>16</sub>	60-10-0403	11	7	1 <sup>7</sup> / <sub>8</sub>
4 <sup>7</sup> / <sub>16</sub>	60-10-0407	13 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	2
4 <sup>15</sup> / <sub>16</sub>	60-10-0415	17	8	2 <sup>1</sup> / <sub>8</sub>
5 <sup>7</sup> / <sub>16</sub>	60-10-0507	20	8 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>
5 <sup>15</sup> / <sub>16</sub> 6	60-10-0515 60-10-0600	22	9 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>
6 <sup>1</sup> / <sub>2</sub>	60-10-0608	25	10	2 <sup>1</sup> / <sub>4</sub>
7	60-10-0700	30	10 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>
7 <sup>1</sup> / <sub>2</sub>	60-10-0708	35	11 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>
8	60-10-0800	45	12 <sup>1</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>

Sizes not listed—Metric Bores—Made to Order—Price upon request.

## Split Cast Iron Shaft Collars

Split cast iron collars are used when the removable feature is desirable. They are available from 1" shaft size to 8". Their dimensions are the largest of the three types. Some clamping action is present due to the split style, but the primary positioning force is the socket head set screw.



Shaft Size	Part Number	Weight	Outside Diameter	Width
1	60-11-0100	1	2 <sup>11</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>16</sub>
1 <sup>3</sup> / <sub>16</sub> 1 <sup>1</sup> / <sub>4</sub>	60-11-0103 60-11-0104	1 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>
1 <sup>5</sup> / <sub>16</sub> 1 <sup>7</sup> / <sub>16</sub> 1 <sup>1</sup> / <sub>2</sub>	60-11-0105 60-11-0107 60-11-0108	1 <sup>1</sup> / <sub>2</sub>	3 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>16</sub>
1 <sup>11</sup> / <sub>16</sub> 1 <sup>3</sup> / <sub>4</sub>	60-11-0111 60-11-0112	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	1 <sup>9</sup> / <sub>16</sub>
1 <sup>7</sup> / <sub>8</sub> 1 <sup>15</sup> / <sub>16</sub> 2	60-11-0114 60-11-0115 60-11-0200	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>
2 <sup>3</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>4</sub>	60-11-0203 60-11-0204	3	4 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>8</sub>
2 <sup>7</sup> / <sub>16</sub> 2 <sup>1</sup> / <sub>2</sub>	60-11-0207 60-11-0208	4	4 <sup>7</sup> / <sub>8</sub>	2
2 <sup>11</sup> / <sub>16</sub> 2 <sup>3</sup> / <sub>4</sub>	60-11-0211 60-11-0212	5	5 <sup>5</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>
2 <sup>15</sup> / <sub>16</sub> 3	60-11-0215 60-11-0300	5 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>16</sub>
3 <sup>3</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>4</sub>	60-11-0303 60-11-0304	8 <sup>1</sup> / <sub>2</sub>	6 <sup>1</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>
3 <sup>7</sup> / <sub>16</sub> 3 <sup>1</sup> / <sub>2</sub>	60-11-0307 60-11-0308	9 <sup>3</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>
3 <sup>11</sup> / <sub>16</sub>	60-11-0311	10	6 <sup>13</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>8</sub>
3 <sup>15</sup> / <sub>16</sub> 4	60-11-0315 60-11-0400	11	7 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>
4 <sup>3</sup> / <sub>16</sub>	60-11-0403	15 <sup>3</sup> / <sub>4</sub>	7 <sup>3</sup> / <sub>4</sub>	3
4 <sup>7</sup> / <sub>16</sub> 4 <sup>1</sup> / <sub>2</sub>	60-11-0407 60-11-0408	16 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>
4 <sup>15</sup> / <sub>16</sub> 5	60-11-0415 60-11-0500	20 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>
5 <sup>7</sup> / <sub>16</sub>	60-11-0507	28	9 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>
5 <sup>15</sup> / <sub>16</sub> 6	60-11-0515 60-11-0600	30	10 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>16</sub>
6 <sup>1</sup> / <sub>2</sub>	60-11-0608	41	11	4 <sup>1</sup> / <sub>4</sub>
7	60-11-0700	46	12	4 <sup>1</sup> / <sub>2</sub>
7 <sup>1</sup> / <sub>2</sub>	60-11-0708	56	12 <sup>15</sup> / <sub>16</sub>	4 <sup>11</sup> / <sub>16</sub>
8	60-11-0800	69	13 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>

Sizes not listed—Metric Bores—Made to Order—Price upon request.

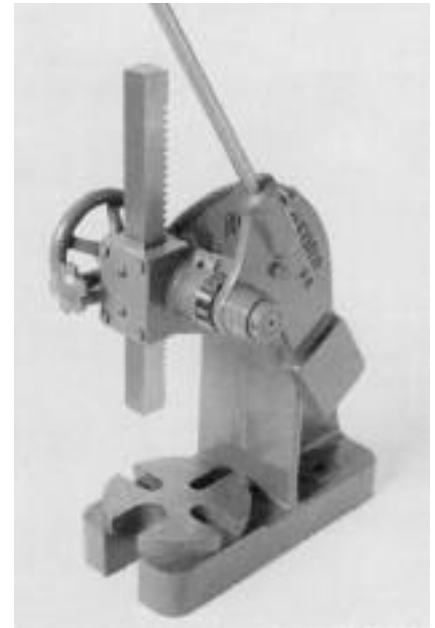


## Royersford - Excelsior Arbor Presses

Royersford Arbor Presses are designed to withstand repeated heavy usage. The frames are made from high strength cast iron. The ram and pinion use carbon steel with the largest teeth possible to assure long dependable service. Front and side adjustment of the ram is provided to assure perfect alignment at all times.

Floor stands can be furnished at extra cost for sizes No. 2, 3, and 3½.

The simple ratchet type is equipped with a hand lock which holds the ram in any desired position.



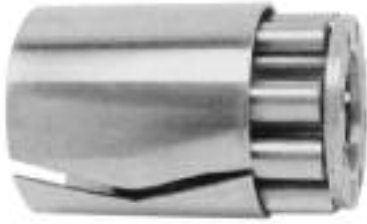
### Plain Lever Type

Press No.	Part Number	Shipping Weight	Diameter Of Work	Capacity Over Table	Capacity Over Plate	Size Of Ram	Leverage Ratio	App. Tons Pressure	Height Press	Largest Arbor (inches)	Base Dimensions
0	54-01-0010	25	7	4½	4	¾ x ¾ x 7½	20 - 1	½	9¾	1⅛	4 x 9
1	54-01-0020	45	8½	5¼	4⅝	1 x 1 x 9½	25 - 1	¾	11¾	1⅜	5 x 10¾
2	54-01-0030	96	13½	8¾	7⅞	1¼ x 1¼ x 13⅞	35 - 1	2	16¾	1¾	6⅞ x 16⅝
3	54-01-0040	220	15¼	12¾	11¾	1½ x 1½ x 18	50 - 1	3	21⅝	2½	8 x 18
3½	54-01-0060	300	18	17½	16	1¾ x 1¾ x 23¾	60 - 1	4	28¾	3½	9 x 22

### Simple Ratchet Type

Press No.	Part Number	Shipping Weight	Diameter Of Work	Capacity Over Table	Capacity Over Plate	Size Of Ram	Leverage Ratio	App. Tons Pressure	Height Press	Largest Arbor (inches)	Base Dimensions
3R	54-01-0050	230	15¼	12¾	11¾	1½ x 1½ x 18	60 - 1	4	21⅝	2½	8 x 18
3½R	54-01-0070	335	18	17½	16	1¾ x 1¾ x 23¾	70 - 1	5	28¾	3½	9 x 22

## Commercial Roller Bearings



ROYERSFORD COMMERCIAL ROLLER BEARINGS are available as complete units consisting of roller bearing with split outer race or roller assemblies only. Split outer races may be purchased separately if desired.

- 10-01-XXXX — Complete Roller Bearing Assembly
- 10-02-XXXX — Roller Assembly Only
- 10-03-XXXX — Split Outer Race

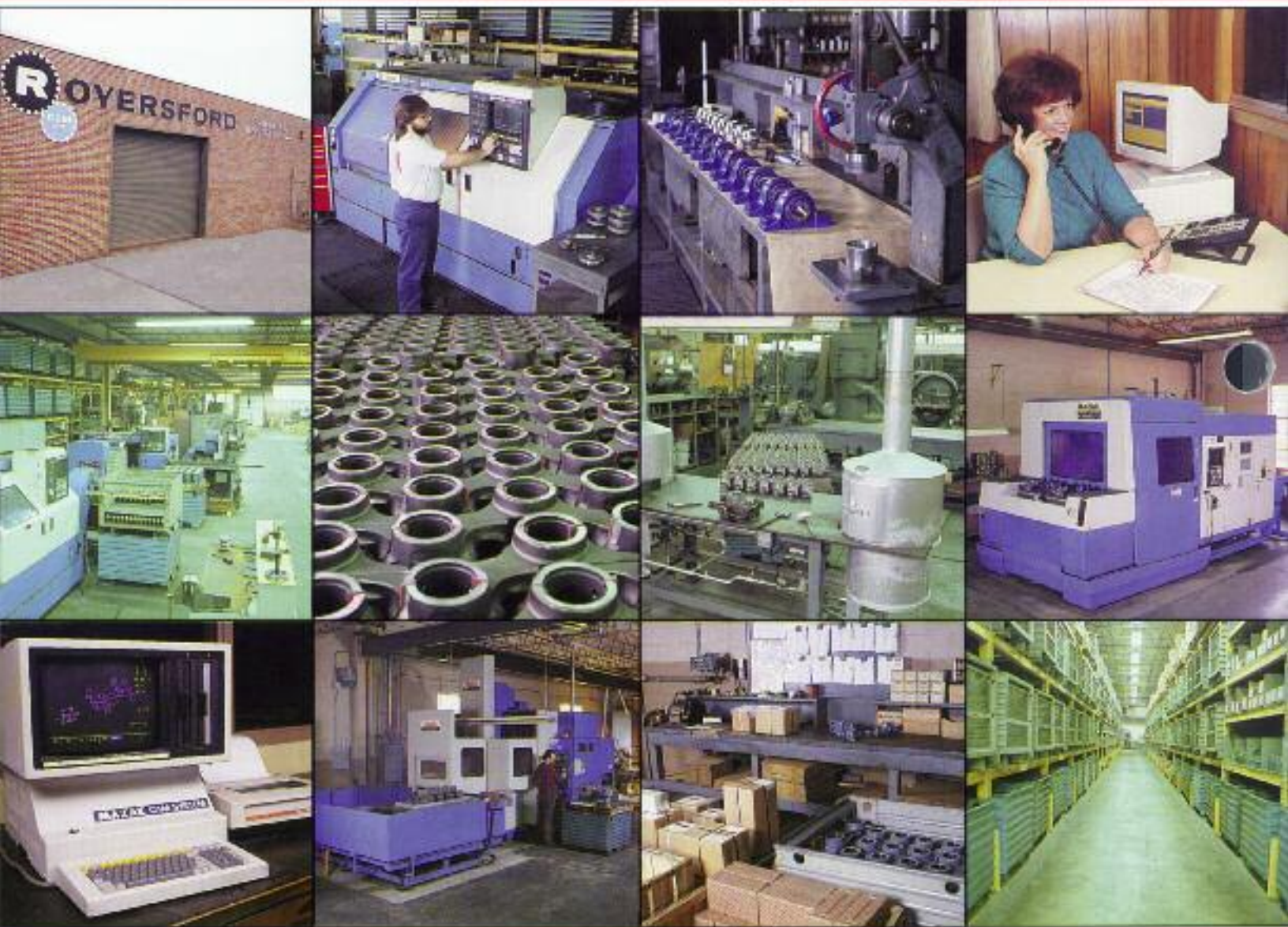
Brg. No.	I.D.	O.D.	Length	Size of Rolls	No. Of Rolls	Split Outer Race	App. Wgt.
1001	1	1 <sup>15</sup> / <sub>16</sub>	2	3/8	8	3/32	1
1002			3				1 <sup>1</sup> / <sub>4</sub>
1003			4				1 <sup>3</sup> / <sub>4</sub>
1005	1 <sup>1</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>16</sub>	2	7/16	8	3/32	1 <sup>1</sup> / <sub>4</sub>
1006			3				1 <sup>1</sup> / <sub>2</sub>
1007			4				2
1009	1 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	2	1/2	8	3/32	1 <sup>1</sup> / <sub>4</sub>
1010			3				1 <sup>3</sup> / <sub>4</sub>
1011			4				2 <sup>1</sup> / <sub>4</sub>
1013	1 <sup>1</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>	2	1/2	8	3/32	1 <sup>1</sup> / <sub>4</sub>
1014			3				1 <sup>3</sup> / <sub>4</sub>
1015			4				2 <sup>1</sup> / <sub>4</sub>
1016			5				3 <sup>1</sup> / <sub>4</sub>
1018	1 <sup>3</sup> / <sub>8</sub>	2 <sup>9</sup> / <sub>16</sub>	2	1/2	9	3/32	1 <sup>3</sup> / <sub>4</sub>
1019			3				2
1020			4				2 <sup>3</sup> / <sub>4</sub>
1021			5				3 <sup>1</sup> / <sub>4</sub>
1023	1 <sup>7</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>4</sub>	2	9/16	9	3/32	1 <sup>1</sup> / <sub>2</sub>
1024			3				2 <sup>1</sup> / <sub>4</sub>
1025			4				3
1026			5				4
1028	1 <sup>1</sup> / <sub>2</sub>	2 <sup>13</sup> / <sub>16</sub>	2	9/16	9	3/32	1 <sup>1</sup> / <sub>2</sub>
1029			3				2 <sup>1</sup> / <sub>2</sub>
1030			4				3 <sup>1</sup> / <sub>4</sub>
1031			5				4
1032	1 <sup>5</sup> / <sub>8</sub>	2 <sup>15</sup> / <sub>16</sub>	2	9/16	9	3/32	1 <sup>3</sup> / <sub>4</sub>
1033			3				2 <sup>1</sup> / <sub>2</sub>
1034			4				3 <sup>1</sup> / <sub>2</sub>
1035			5				4
1036	1 <sup>11</sup> / <sub>16</sub>	3	2	9/16	10	3/32	1 <sup>1</sup> / <sub>2</sub>
1037			3				2 <sup>3</sup> / <sub>4</sub>
1038			4				3 <sup>3</sup> / <sub>4</sub>
1039			5				4 <sup>1</sup> / <sub>2</sub>
1040			6				5 <sup>3</sup> / <sub>4</sub>
1041	1 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>16</sub>	2	9/16	10	3/32	1 <sup>1</sup> / <sub>2</sub>
1042			3				2 <sup>1</sup> / <sub>2</sub>
1043			4				3 <sup>3</sup> / <sub>4</sub>
1044			5				4 <sup>3</sup> / <sub>4</sub>
1045			6				5 <sup>3</sup> / <sub>4</sub>

Brg. No.	I.D.	O.D.	Length	Size of Rolls	No. Of Rolls	Split Outer Race	App. Wgt.
1046	1 <sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>16</sub>	2	9/16	10	3/32	2
1047			3				2 <sup>1</sup> / <sub>4</sub>
1048			4				3 <sup>1</sup> / <sub>4</sub>
1049			5				4 <sup>1</sup> / <sub>4</sub>
1050			6				5 <sup>3</sup> / <sub>4</sub>
1051	1 <sup>15</sup> / <sub>16</sub>	3 <sup>7</sup> / <sub>16</sub>	2	5/8	10	1/8	2 <sup>1</sup> / <sub>2</sub>
1052			3				3 <sup>1</sup> / <sub>4</sub>
1053			4				4 <sup>3</sup> / <sub>4</sub>
1054			5				6 <sup>1</sup> / <sub>4</sub>
1055			6				7
1056	2	3 <sup>1</sup> / <sub>2</sub>	2	5/8	10	1/8	2
1057			3				3 <sup>1</sup> / <sub>4</sub>
1058			4				4 <sup>1</sup> / <sub>4</sub>
1059			5				6
1060			6				7
1061	2 <sup>3</sup> / <sub>16</sub>	3 <sup>11</sup> / <sub>16</sub>	2	5/8	10	1/8	3 <sup>3</sup> / <sub>4</sub>
1062			3				5
1063			4				6 <sup>1</sup> / <sub>2</sub>
1064			5				7 <sup>1</sup> / <sub>4</sub>
1065	2 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	3	5/8	11	1/8	4
1066			4				5
1067			5				6 <sup>1</sup> / <sub>2</sub>
1068			6				7 <sup>3</sup> / <sub>4</sub>
1069	2 <sup>7</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	3	1 <sup>1</sup> / <sub>16</sub>	11	1/8	4 <sup>3</sup> / <sub>4</sub>
1070			4				6 <sup>1</sup> / <sub>2</sub>
1071			5				8
1072			6				9 <sup>3</sup> / <sub>4</sub>
1073			7				11
1074	2 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub>	3	1 <sup>1</sup> / <sub>16</sub>	11	1/8	4 <sup>3</sup> / <sub>4</sub>
1075			4				6 <sup>1</sup> / <sub>4</sub>
1076			5				7 <sup>3</sup> / <sub>4</sub>
1077			6				9 <sup>3</sup> / <sub>4</sub>
1078			7				11 <sup>3</sup> / <sub>4</sub>
1079	2 <sup>11</sup> / <sub>16</sub>	4 <sup>5</sup> / <sub>16</sub>	3	1 <sup>1</sup> / <sub>16</sub>	12	1/8	5 <sup>1</sup> / <sub>4</sub>
1080			4				7
1081			5				8
1082			6				9 <sup>3</sup> / <sub>4</sub>
1083			7				12
1084	2 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>8</sub>	3	1 <sup>1</sup> / <sub>16</sub>	12	1/8	5 <sup>1</sup> / <sub>4</sub>
1085			4				7
1086			5				9
1087			6				10 <sup>3</sup> / <sub>4</sub>
1088			7				12
1089	2 <sup>15</sup> / <sub>16</sub>	4 <sup>11</sup> / <sub>16</sub>	3	3/4	12	1/8	6
1090			4				8
1091			5				10
1092			6				13
1093			7				14 <sup>3</sup> / <sub>4</sub>
1094	3	4 <sup>3</sup> / <sub>4</sub>	3	3/4	12	1/8	6 <sup>3</sup> / <sub>4</sub>
1095			4				8 <sup>1</sup> / <sub>4</sub>
1096			5				10
1097			6				12
1098			7				14 <sup>1</sup> / <sub>4</sub>
1099	3 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	3	7/8	12	1/8	8
1100			4				10
1101			5				12
1102			6				16
1103			7				15
1201	1	2 <sup>3</sup> / <sub>16</sub>	2	1/2	8	3/32	1 <sup>1</sup> / <sub>4</sub>
1202			3				2
1203			4				2 <sup>3</sup> / <sub>4</sub>

Brg. No.	I.D.	O.D.	Length	Size of Rolls	No. Of Rolls	Split Outer Race	App. Wgt.
1205			2				1 1/2
1206	1 1/8	2 5/16	3	1/2	8	3/32	2
1207			4				2 1/2
1209			2				2
1210	1 3/16	2 5/8	3	5/8	8	3/32	3
1211			4				4
1213			2				2
1214	1 1/4	2 11/16	3	5/8	8	3/32	2 3/4
1215			4				3 3/4
1216			5				4 3/4
1218			2				3
1219	1 3/8	2 13/16	3	5/8	9	3/32	3 1/4
1220			4				3 3/4
1221			5				6
1223			2				2 3/4
1224	1 7/16	3 1/8	3	3/4	8	3/32	3 3/4
1225			4				5
1226			5				6
1228			2				2 1/2
1229	1 1/2	3 3/16	3	3/4	8	3/32	4
1230			4				5
1231			5				6 1/4
1233			3				4
1234	1 5/8	3 3/16	4	1 1/16	9	3/32	4 3/4
1235			5				6
1237			3				4 1/4
1238	1 11/16	3 3/8	4	3/4	9	3/32	6
1239			5				7
1240			6				8 3/4
1242			3				4
1243	1 3/4	3 7/16	4	3/4	9	3/32	5 1/4
1244			5				7
1245			6				8
1247			3				4 1/4
1248	1 7/8	3 9/16	4	3/4	9	3/32	5 1/4
1249			5				6 1/4
1250			6				8
1252			3				6
1253	1 15/16	3 15/16	4	7/8	9	1/8	6
1254			5				9 1/4
1255			6				10
1256			2				4
1257			3				6
1258	2	4	4	7/8	9	1/8	7 3/4
1259			5				10
1260			6				11
1261			3				6
1262			4				8
1263	2 3/16	4 3/16	5	7/8	10	1/8	11
1264			6				12
1265			3				6 1/4
1266	2 1/4	4 1/4	4	7/8	10	1/8	8
1267			5				11
1268			6				12
1269			3				7
1270	2 7/16	4 9/16	4	15/16	10	1/8	10
1271			5				11 1/4
1272			6				13 3/4
1273			7				17

Brg. No.	I.D.	O.D.	Length	Size of Rolls	No. Of Rolls	Split Outer Race	App. Wgt.
1274			3				7
1275			4				9 3/4
1276	2 1/2	4 5/8	5	15/16	10	1/8	11 1/4
1277			6				14
1278			7				17
1279			3				7 3/4
1280	2 11/16	4 13/16	4	15/16	10	1/8	10
1281			5				14
1282			6				15
1283			7				18
1284			3				8
1285	2 3/4	4 7/8	4	15/16	11	1/8	11
1286			5				13 1/4
1287			6				16
1288			7				19
1289			3				9 1/4
1290	2 15/16	5 3/16	4	1	11	1/8	12
1291			5				16
1292			6				18 1/4
1293			7				22
1294			3				10
1295	3	5 1/4	4	1	11	1/8	12 1/4
1296			5				15
1297			6				17
1298			7				22
1299			3				12
1300	3 1/2	6 1/8	4	1 1/8	12	3/16	17
1301			5				21 1/2
1302			6				27
1304			7				30
1305			3				13 1/2
1306	4	6 5/8	4	1 1/8	12	3/16	18
1307			5				22
1308			6				26 1/2
1309			7				31 1/2
1310			3				17
1311	4 1/2	7 3/8	4	1 1/4	11	3/16	21
1312			5				25
1313			6				34
1314			7				36
1315			3				19
1316	5	7 7/8	4	1 1/4	12	3/16	22
1317			5				28
1318			6				34
1319			7				35
1320			3				24 1/2
1321	5 3/4	8 5/8	4	1 1/4	15	3/16	27
1322			5				34
1323			6				41 1/4
1324			7				45
1325			3				26
1326	6	8 7/8	4	1 1/4	15	3/16	28
1327			5				35
1329			6				41
1330			7				48
1340	7	10 1/8	7	1 3/8	15	3/16	57

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