

FAG Deep Groove Ball Bearings

6203.2RSR.M.P63.S1.L12

Series		Grease Codes	
60	Extra Light	Consult Grease Code Chart	
62	Light		
63	Medium		
64	Heavy		
Bore Diameter		Heat Treat Code	
00	10 mm	SO	For Operating temp. up to 300°F
01	12 mm	(No Suffix)	
02	15 mm	S1	For operating temp. up to 392°F (200 °C)
03	17 mm	S2	For operating temp. up to 482 °F (250 °C)
04 –96	Bore Reference x 5 (mm)	S3	For operating temp. up to 572 °F (300 °C)
/500 →	500 mm →	S4	For operating temp. up to 662 °F (350 °C)
Sealing & Shielding		Precision Class	
No Suffix	Open Bearing	ISO	ABEC
RSR	Standard Rubber Seal (Contact)	PN (No Suffix)	1 Standard
2RSR	2 Standard Rubber Seals (Contact)	P6	3 Better than PN
RSD	Standard Rubber Seals (Non-Contact)	P5	5 Better than P6
2RSD	2 Standard Rubber Seals (Non-Contact)	Radial Clearance Class	
HSR	Hycar Seal (Contact)	C2	Smaller than CN Clearance
2HSR	2 Hycar Seals (Contact)	CN	Normal Clearance
HSD	Hycar Seals (Non-Contact)	C3	Greater than CN Clearance
2HSD	2 Hycar Seals (Non-Contact)	C4	Greater than C3 Clearance
VSR	Viton Seal (Contact)	C5	Greater than C4 Clearance
2VSR	2 Viton Seals (Contact)	R30.50	Special Radial Clearance (30 to 50 Microns)
VSD	Viton Seals (Non Contact)		
2VSD	2 Viton Seals (Non Contact)		
ZR	Metal Shield		
2ZR	2 Metal Shields		
Cage Design			
J	Standard Pressed Steel Cage		
JN	Riveted Standard Pressed Steel Cage		
TNH	Polyamide, Snap-Type		
M	Machined Brass		
TVH	Polyamide, Glass Fiber, Reinforced, Snap-Type		
Y	Pressed Brass		
Cage Type			
No Suffix	Ball Guided		
A	Outer Ring Guided		
B	Inner Ring Guided		

FAG Angular Contact Ball Bearings

7203B.TVP.P5.UA

Series

718
719
70
72
73

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96	Bore Reference x 5 (mm)
/500 →	500 mm →

Internal Bearing Design

Suffix	Series	Contact Angle
No Suffix	718	30°
	719	30°
	70 (Bore 100 mm)	20°
	70 (Bore > 100 mm)	30°
B	72	40°
	73	40°
	74	40°

Cage Design

TVP	Glass Fiber Reinforced Polyamide
MP	Machined Brass
YP	Pressed Brass

Cage Guidance

No Suffix	Ball Guided
A	Outer Ring Guided
B	Inner Ring Guided

Universal Design for Paired Mounting

No Suffix	Paired Mounting NOT Possible
UA	Small Axial Clearance when Paired Un-Mounted in an “X” or “O” Arrangement
UO	Zero Clearance when Paired Un-Mounted in an “X” or “O” Arrangement
UL	Light Preload when Paired Un-Mounted in an “X” or “O” Arrangement
UM	Medium Preload when Paired Un-Mounted in an “X” or “O” Arrangement
US	Heavy Preload when Paired Un-Mounted in an “X” or “O” Arrangement
UA50.100	Special Un-Mounted Axial Clearance for a Universal Design Bearing Pair. (50 to 100 Microns)

Precision Class

No Suffix	Normal (PN) Tolerance
No Suffix	Universal Design - Normal (PN) Tolerance with P5 Bore Diameter & Special width tolerance
P6	Better than PN Tolerance
P6	Universal Design – Better than PN Tolerance with P5 Bore Diameter & Special width tolerance
P5	Better than P6
P5	Universal Design 0 Better than P6 Tolerance with Special width tolerance

FAG Double-Row Angular Contact Ball Bearings

3207B.2RSR.TVH.P53.L12

Series

32	Light
33	Medium series

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96	Bore Reference x 5 (mm)
/500 →	500 mm →

Internal Design

No Suffix	Max type 35 contact angle
C	Max type 30 contact angle Domestic Production
B	Conrad type 25 contact angle
BC	Conrad type 25 contact angle Domestic Production
DA	Split inner ring 45 contact angle

Seals & Shields

RSR	1 Rubber Seal (Contact)
2RSR	2 Rubber Seals (Contact)
ZR	1 Metal Shield
2ZR	2 Metal Shields

Grease

See Deep Groove Ball Bearings except L943
 L943 Anti-Corrosion Slush Preservative

Axial Internal Clearance

C2	Less than Normal
No Suffix	Normal (CN)
C3	Larger than Normal
C4	Larger than C3
A50.100	Special Axial Clearance (50 to 100 Microns)

Precision Class

ISO	ABEC
No	1 Standard
Suffix	Precision (PN)
P6	3 Better than standard Precision
P5	5 Better than P6 Precision

Cage Design

TVH	Glass Fiber Reinforced Polyamide
JH	Stamped Steel
M	Machined Brass

FAG Spindle Bearings

B7008CB.T.P4S.DUL

Type	
B	Standard OR relieved IR symmetrical
HCB	Standard OR relieved IR symmetrical, ceramic balls
HS	High speed Small ball bearing, double relieved
HSS	High speed ball bearing sealed
HC	High speed ball bearing, ceramic balls
HCS	High speed ball bearing, ceramic balls, sealed
Series	
719	Light Series
70	Medium Series
72	Heavy Series
Bore Diameter	
00	10 mm
01	12 mm
02	15 mm
03	17 mm
04	4*5= 20 mm
Contact Angle	
C	15 Degree
E	25 Degree
CB	15 Degree, made in US (standard for B type series)
EB	25 Degree, made in USA (standard for B type series)

Standard Preloads	
L	Light
M	Medium
H	Heavy
Bearing Sets	
U	Single bearing universal, available as a special order for USA made product
DU	Duplex set, universal, standard for USA made product
TU	Triplex set, universal, non-standard can be ordered
QU	Quadruplex set, universal, non- standard can be ordered
PU	Pentaplex set, universal, non- standard can be ordered
DB	Duplex set, back to back, non- standard can be ordered
DT	Duplex set, tandem, non-standard can be ordered
TBT	Triplex set, tandem back to back, non-standard can be ordered
QBC	Quadruplex set, double tandem, back to back, non-standard can be ordered
Precision	
P4S	FAG tolerance, better than standard ISO P4
Cage	
T	Phenolic

Ball Screw Support Bearings

7602035T

Series

7602
7603

Bore

Actual size

Cage

TVP Glass Fiber Reinforced
Polyamide

BSB030062T

Series

BSB

Bore

Actual size

Cage

TVP Glass Fiber
Reinforced Polyamide

Outer Ring Diameter

Actual Size

Note: These bearings are made to P4 precision only Contact angle is 60 deg

FAG Double-Row Self-Aligning Ball Bearings

2208K.2RS.TV.C3.L12

Series

12	Light
22	Light Wide
13	Medium
23	Medium Wide

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96 Bore Reference (mm)	
/500 →	500 mm →

Bore Design

No Suffix	Cylindrical Bore
K	Tapered Bore (1:12)

Seals

RS	1 Rubber Seal (contact)
2RS	2 Rubber Seals (contact)

Grease Code

See grease code charts

Radial Internal Clearance

C2	Less than normal
No Suffix	Normal (CN)
C3	Larger than normal
C4	Larger than C3
R30.50	Special radial clearance 30 to 50 microns

Cage Design

No suffix	Stamped Steel
M	Machined Brass
F	Machined Steel
TV	Polyamide

FAG Thrust Ball Bearings

51156FP.P5

Series

Single Direction	Double Direction
510	522
512	523
513	542
514	543
532	
533	

Precision Class

No Suffix	Normal (PN) Tolerance
P6	Better than PN Tolerance
P5	Better than P6 Tolerance
P4	Better than P5 Tolerance

Bore Diameter

/4 → /8	4 mm → 8mm
00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96	Bore Reference x 5 (mm)
/500 →	500 mm →

Cage Design

No Suffix	Stamped Steel (J. or JP)
M	2 pc. Machined Brass
MP	1 pc. Machined Brass
F	2 pc. Machined Steel
FP	1 pc. Machined Steel
TNP	1 pc. Polyamide
TVP	Reinforced Polyamide

FAG Cylindrical Roller Bearings

NU2336EX.M1.C4

Bearing Design

NU	1 Row, No Lips I.R., 2 Lips O.R.
NJ	1 Row, 1 Lip I.R., 2 Lips O.R.
NUP	1 Row, 1 Lip + Separable Lip I.R. 2 Lip O.R.
N	1 Row, 2 Lips I.R., No Lips O.R.
NJ + HJ	1 Row, 1 Lip + Angle Ring I.R. 2 Lips O.R.

Series

10	Extra Light
2	Light
22	Light Wide
3	Medium
23	Medium Wide
4	Heavy

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 - 96	Bore Reference x 5 (mm)
/500 →	500 mm →

Internal Bearing Design

No Suffix	Standard Capacity
E	High (extra) Capacity
EX	High (extra) Capacity Internal Design per DIN5412

Radial Internal Clearance

C2	Less than normal
No Suffix	Normal (CN)
C3	Larger than normal
C4	Larger than C3
R80.100	Special Radial Clearance (80 to 100 microns)

Cage Design

F	Machined Steel
JP	Stamped Steel
JP1	Stamped Steel ("E" Design)
M	Machined Brass
M1	Machined Brass ("P" Design)
TVP	Glass Fiber Reinforced Polyamide

Cage Guidance

No Suffix	Roller Guided
A	Out Ring Guided
B	Inner Ring Guided

FAG Single-Row Cylindrical Roller Bearings

N1026K.M1.SP.C2

Bearing Design

N 1 Row, 2 Lips I.R.,
No Lips O.R.

Series

10
19

Bore Diameter

06 – 96 Bore Reference x 5 (mm)
/500 → 500 mm →

Bore Design

No Suffix Cylindrical Bore
K Tapered Bore
(1:12)

Radial Internal Clearance

No Suffix C1NA (less than C2)
C2 Less than Normal (CN)
C3 Larger than CN
R25.35 Special Radial Clearance
(25 to 35 Microns)

Precision Class

SP Special Precision

Cage Design

M1 Machined Brass
F1 Machined Steel

Cage Guidance

No Suffix Roller Guided
A Outer Ring Guided
B Inner Ring Guided

FAG Double-Row Cylindrical Roller Bearings

NNU3026ASK.M.SP.C2

Bearing Design

NN	2 Row 3 Lips I.R.. No Lips O.R.
NNU	2 Row No Lips I.R.. 3 Lips O.R.
NNUP	2 Row 1 Lip + Separable Lip I.R.. 3 Lips O.R.

Series

30
40
41
48
49

Bore Diameter

04 – 96	Bore Reference x 5 (mm)
/500 →	500 mm →

Internal Bearing Design

A	Internal E
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Lubrication Hole Feature

S	Lubrication Hole
Note: Indicated for all Bearings regardless of O.D. dimension	

Bore Design

No Suffix	Cylindrical Bore
K	Tapered Bore (1:12)

Radial Internal Clearance

C2	Less than Normal (CN)
No Suffix	Normal (CN) Clearance (C1NA(30.&49 Series when combined w/ "SP" or "UP" Precision Class)
C3	Larger than CN
R25.35	Special Radial Clearance (25 to 30 Microns)

Precision Class

No Suffix	Normal (PN) Tolerance
P6	Better than PN Tolerance
P5	Better than P6 Tolerance
P4	Better than P5 Tolerance
SP	Special Precision
UP	Ultra Precision

Cage Design

M	Machined Brass
F	Machined Steel

Cage Guidance

No Suffix	Roller Guided
A	Outer Ring Guided
B	Inner Ring Guided

FAG Cylindrical Roller Thrust Bearings

81126LPB.P5

Series

810
811
812
813
814

Bore Diameter

00	10
01	12
02	15
03	17
04 – 96	Bore Reference x 5 (mm)
/500	500 mm

Precision Class

No Suffix	Normal (PN) Tolerance
P6	Better than PN Tolerance
P5	Better than P6 Tolerance

Cage Design

J	Stamped Steel
TVP	Glass Fiber Reinforced Polyamide
M	2 pc. Machined Brass
MP	1 pc. Machined Brass
F	2 pc. Machined Steel
FP	1 pc. Machined Steel
L	2 pc. Light Metal Alloy
LP	1 pc. Light Metal Alloy

Cage Guidance

No Suffix	Roller Guided
A	Housing Guided
B	Shaft Guided

Cage Lubrication Slots

S	Lubrication slots in Cage Guidance Surface
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Tapered Roller Bearings In Metric Dimension

Numbering system per DIN / ISO720

31312A. P5.A80.120.N11CA

Series

329
320x
330
331
302
322B
303
313
313x
323
323B

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96	Bore reference x 5mm
/500 →	500 mm →

Suffixes

A	Modified internal design
B	Modified internal design, increased contact angle
X	Boundary dimensions adapted to international standards (ISO)
XA	Boundary dimensions adapted to international internal design

Matching Specifications

A25.50	Axial Clearance	range
in microns (25 to 50)		
VA25.50	Preload range in microns	
(25-50 microns)		
N11BA.N11BB. – Matching Specs for		
N11BC.N11BD. explanation see next page		
N11CA.N11CB.		
N11CC		

Precision Class

No Suffix	Normal (PN)
P6X	Tolerance on bore
<i>See Note</i>	and OD standard.
	Width tolerance better than
	normal (PN) tolerance
P5	Better than P6X tolerance
P4	Better than P5 tolerance

Cage Design

JP	Stamped Steel Cage
F	Machined Steel
M	Machined Brass
TNP	Polyamide
TVP	Glass Fiber Reinforced Polyamide

Note: Series 320X,329,330,331,332 with bore diameters of up to 200 mm have the P6X tolerance as standard

FAG Barrel Roller Bearings

2022K.MB.C3

Bearing Series

202	Light
203	Medium
204	Heavy

Bore Diameter

02	15 mm
03	17 mm
04 – 64	Bore Reference x 5 (mm)

Bore Design

No Suffix	Cylindrical Bore
K	Tapered Bore (1:12)

Radial Internal Clearance

C2	Less than normal
No Suffix	Normal (CN)
C3	Larger than normal
C3	Larger than C3
R100.200	Special Radial Clearance 100 to 200 microns

Cage Design

No Suffix	(J) Stamped Steel
T	(TVP) Glass Fiber Reinforced Polyamide
M	Machined Brass

Cage Guidance

No Suffix	Roller Guided
B	Inner Ring Guided

FAG Double-Row Spherical Roller Bearings

22318EASK.M.C3

Bearing Design

239	Extremely light, wide
230	Extra light, wide
240	Extra light, extra wide
231	Extra light / light, wide
241	Extra light / light, extra wide
222	Light
232	Light, wide
213	Medium, narrow
223	Medium
233	Heavy

Bore Diameter

00	10 mm
01	12 mm
02	15 mm
03	17 mm
04 – 96	Bore Reference x 5 (mm)
/ 500 →	500 mm →

Internal Bearing Design

No Suffix	Standard Capacity
E	High (extra) Capacity
A	Internal Design Modification
B	Internal Design Modification

Lubrication Hole Feature

S	Lubrication Groove & Holes, O.R. (not indicated for bearing O.D. > 320 mm, or “E” type steel cage design)
SY	Lubrication Holes, O.R.

Radial Internal Clearance

C2	Less than normal
No Suffix	Normal (CN)
C3	Larger than normal
C4	Larger than C3
R100.120	Special Radial Clearance 100 – 120 microns

Cage Design

No Suffix	Stamped Steel (“E” Design)
J	Stamped Steel
F	Machined Steel
L	Light Metal Alloy
M	Machined Brass
TVP	Glass Fiber Reinforced Polyamide
YP	Stamped Brass

Cage Guidance

No Suffix	Roller Guided
A	Outer Ring Guided
B	Inner Ring Guided

Bore Design

No Suffix	Cylindrical Bore
K	Tapered Bore (1:12)
K30	Tapered Bore (1:30)

Spherical Roller Thrust Bearings

29228E.MB

Series

- 292
- 293
- 294

Cages

- JP Stamped Steel
- MB Machined Brass Cage
Shaft Washer Guided
- MS Machined Brass Cage
Roller Guided with
Lubrication Feature

Bore Diameter

- 12 – 96 Bore Reference x 5 mm
- /500 → 500 mm →

Internal Bearing Design

- E Max Capacity

FAG Screen Bearing Nomenclature (Brass Cage Bearings)

22322EASK.MA.T41A

Bearing Series

223 Medium
233 Heavy

Bore Diameter

08 – 44 Bore Reference x 5 (mm)

Internal Bearing Design

No Suffix Standard Capacity
E High (Extra) Capacity
A Internal Design Modification

Lubrication Hole Feature

S Lubrication Groove & Holes, O.R.
(not indicated for Bearing O.D. >
320 mm, or “E” – Type Steel Cage
Design)

Additional Suffixes

T41A Special Features
for Vibratory
Screen Bearings

Cage Guidance

M Machined Brass

Cage Guidance

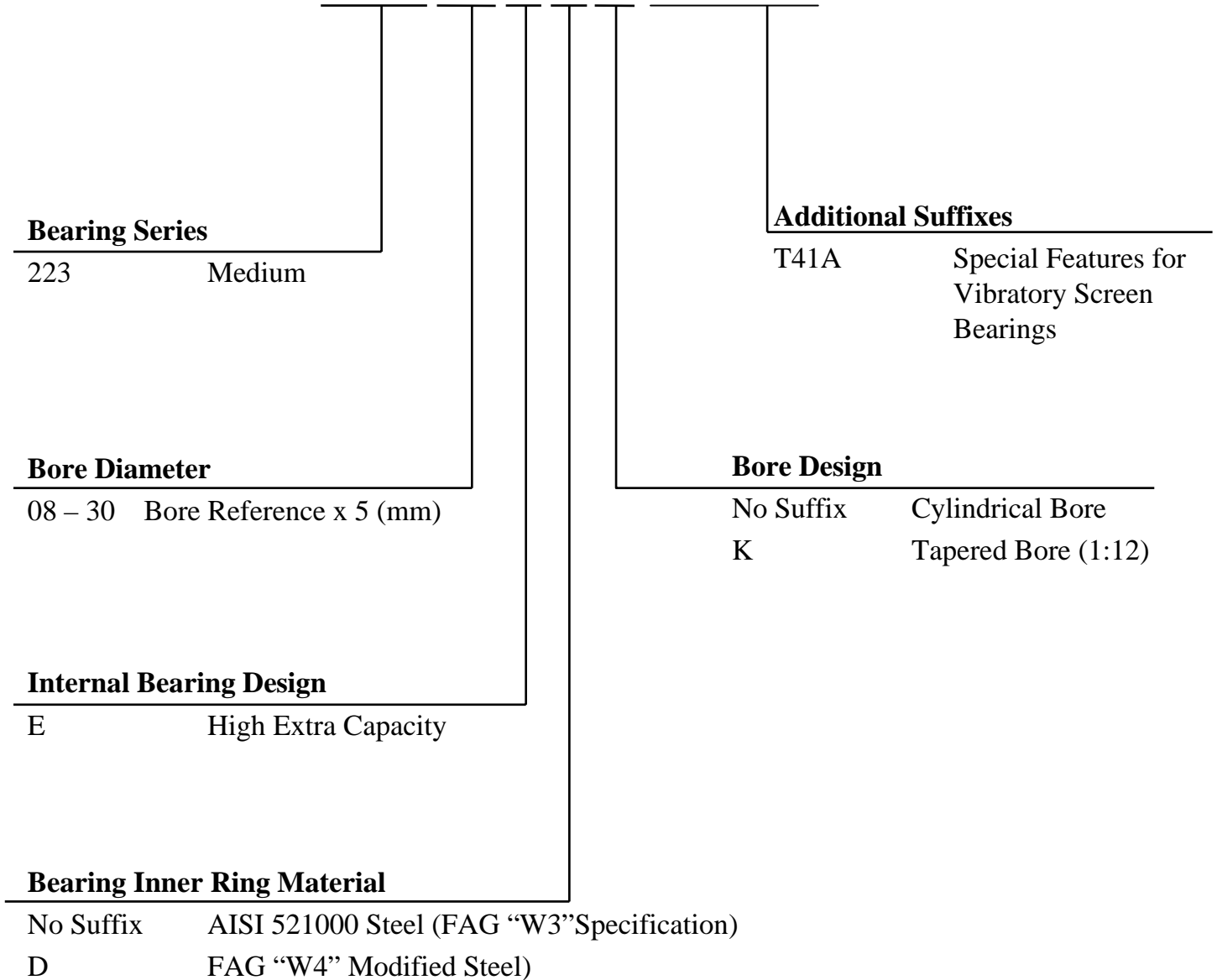
No Suffix Roller Guided
A Outer Ring Guided

Bore Design

No Suffix Cylindrical Bore
K Tapered Bore (1:12)

FAG Screen Bearing Nomenclature (Steel Cage Bearings)

22322EDK.T41A



Note: The standard steel cage design (“JPA”- type) is not indicated in the bearing nomenclature