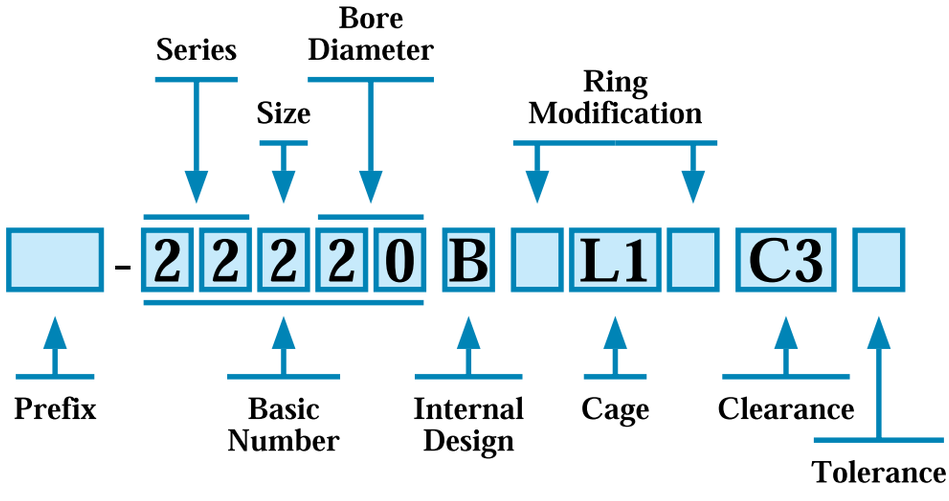
NTN SPHERICAL ROLLER BEARING NUMBERING SYSTEM



1. PREFIX
- TS2: Heat stabilization for up to 320º F (160º C)
- TS3: Heat stabilization for up to 390º F (200º C)
- TS4: Heat stabilization for up to 480º F (250º C)
- LH: STJ2 Material (Temp 250ºC)
- MX: All components phosphate coated

2. SERIES
- 213: Standard series spherical roller bearings
- 222, 223: Standard series spherical roller bearings
- 230, 231, 232, 239: Standard series spherical roller bearings
- 240, 241: Standard series spherical roller bearings
- W: Wide series spherical roller bearing with integral seals

3. INTERNAL DESIGN
- B: One piece ribbed inner ring, asymmetrical rollers and center guided retainer
- C: Plain inner ring, center floating guide ring
- UA: Inner ring without center guide, asymmetrical rollers, and outer ring center-guided retainer (limited thrust capabilities)
- E: High capacity spherical roller bearings

4. CAGE
- No Symbol: Standard cage
- J: Pressed steel cage
- L1: Machined brass cage
- T2: Nylon cage

5. SEALS
- LL: Two integral garter seals with steel backing plates

6. RING MODIFICATION
- D1: Oil groove and holes
- K: 1:12 tapered bore

7. INTERNAL CLEARANCE
- C1: Radial clearance less than C2
- C2: Radial clearance less than normal
- No Suffix: Normal internal clearance
- C3: Radial clearance greater than normal
- C4: Radial clearance greater than C3
- C5: Radial clearance greater than C4
- CSXX: Special radial clearance; XX is mean value in 0.001 mm units

8. TOLERANCE
- No Symbol: Class 0 (equivalent to ABEC 1); standard
- PXn: Special tolerance, from 1 onward
- Vn: Special requirement, from 1 onward
- VS1: Special tolerance for shaker screen bearings (C3 clearance)
- VS2: Special tolerance for shaker screen bearings (C4 clearance)

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

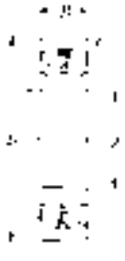
FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

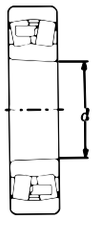
Units: **INCHES**
Millimeters

NTN
SERIES 213

Bearing No. 213	Bearing No. 213K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius (minimum) *r*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static C_o*
21308C	**21308CK**	**1.5748** 40	**3.5433** 90	**.9055** 23	**.039** 1.0	**19,800**	**20,200**
21309C	**21309CK**	**1.7717** 45	**3.9370** 100	**.9843** 25	**.039** 1.0	**23,000**	**23,800**
21310C	**21310CK**	**1.9685** 50	**4.3307** 110	**1.0630** 27	**.059** 1.5	**26,400**	**28,500**
21311	**21311K**	**2.1654** 55	**4.7244** 120	**1.1417** 29	**.098** 2.5	**32,500**	**36,500**
21312	**21312K**	**2.3622** 60	**5.1181** 130	**1.2205** 31	**.098** 2.5	**37,500**	**43,000**
21313	**21313K**	**2.5591** 65	**5.5118** 140	**1.2992** 33	**.098** 2.5	**43,500**	**51,000**
21314	**21314K**	**2.7559** 70	**5.9055** 150	**1.3780** 35	**.098** 2.5	**49,500**	**59,000**
21315	**21315K**	**2.9528** 75	**6.2992** 160	**1.4567** 37	**.098** 2.5	**53,500**	**64,500**
21316	**21316K**	**3.1496** 80	**6.6929** 170	**1.5354** 39	**.098** 2.5	**58,500**	**71,000**
21317	**21317K**	**3.3465** 85	**7.0866** 180	**1.6142** 41	**.117** 3.0	**65,000**	**80,000**
21318	**21318K**	**3.5433** 90	**7.4803** 190	**1.6929** 43	**.117** 3.0	**72,000**	**90,000**
21319	**21319K**	**3.7402** 95	**7.8740** 200	**1.7717** 45	**.117** 3.0	**75,500**	**94,500**
21320	**21320K**	**3.9370** 100	**8.4646** 215	**1.8504** 47	**.117** 3.0	**83,000**	**105,000**



Cylindrical Bore
213



Tapered Bore
213K
Taper 1:12

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

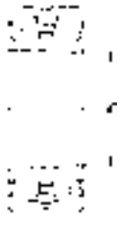
SERIES 222

Units: **INCHES**
Millimeters

In this series, machined brass cages are also available. When placing an order for them, put the suffix L1 on the bearing number.

Example: 22211EL1

Cylindrical Bore
232



Tapered Bore
232K
Taper 1:12

SPHERICAL ROLLER BEARINGS

Bearing No.		Bore	O.D.	Width	Fillet Radius (minimum)	Oil Groove Width	Basic Load Ratings (lbs)	
222	222K	*d*	*D*	*B*	*r*	*G*	*Dynamic C*	*Static C_o*
22208CD1	**22208CKD1**	**1.5748**	**3.1496**	**.9055**	**.043**	**—**	**17,800**	**19,900**
		40	80	23	1.1	—		
22209CD1	**22209CKD1**	**1.7717**	**3.3465**	**.9055**	**.043**	**—**	**18,600**	**21,400**
		45	85	23	1.1	—		
22210CD1	**22210CKD1**	**1.9685**	**3.5433**	**.9055**	**.043**	**—**	**19,300**	**23,000**
		50	90	23	1.1	—		
22211ED1	**22211EKD1**	**2.1654**	**3.9370**	**.9843**	**.079**	**—**	**26,460**	**32,413**
		55	100	25	2.0	—		
22212ED1	**22212EKD1**	**2.3622**	**4.3307**	**1.1024**	**.079**	**—**	**33,736**	**40,792**
		60	110	28	2.0	—		
22213ED1	**22213EKD1**	**2.5591**	**4.7244**	**1.2205**	**.079**	**—**	**39,690**	**48,951**
		65	120	31	2.0	—		
22214ED1	**22214EKD1**	**2.7559**	**4.9213**	**1.2205**	**.079**	**—**	**41,233**	**52,038**
		70	125	31	2.0	—		
22215ED1	**22215EKD1**	**2.9528**	**5.1181**	**1.2205**	**.079**	**—**	**42,777**	**55,345**
		75	130	31	2.0	—		
22216ED1	**22216EKD1**	**3.1496**	**5.5118**	**1.2992**	**.098**	**—**	**47,848**	**62,181**
		80	140	33	2.5	—		
22217ED1	**22217EKD1**	**3.3465**	**5.9055**	**1.4173**	**.098**	**—**	**56,448**	**71,662**
		85	150	36	2.5	—		
22218ED1	**22218EKD1**	**3.5433**	**6.2992**	**1.5748**	**.098**	**—**	**65,709**	**87,097**
		90	160	40	2.5	—		
22219BD1	**22219BKD1**	**3.7402**	**6.6920**	**1.6929**	**.098**	**—**	**65,500**	**86,500**
		95	170	43	2.5	—		
22220BD1	**22220BKD1**	**3.9370**	**7.0865**	**1.8110**	**.098**	**.31**	**70,000**	**92,500**
		100	180	46	2.5	8		
22222BD1	**22222BKD1**	**4.3307**	**7.8740**	**2.0866**	**.098**	**.39**	**92,500**	**128,000**
		110	200	53	2.5	10		
22224BD1	**22224BKD1**	**4.7244**	**8.4646**	**2.2835**	**.098**	**.39**	**109,000**	**158,000**
		120	215	58	2.5	10		
22226BD1	**22226BKD1**	**5.1181**	**9.0551**	**2.5197**	**.118**	**.39**	**127,000**	**176,000**
		130	230	64	3.0	10		
22228BD1	**22228BKD1**	**5.5118**	**9.8425**	**2.6772**	**.118**	**.39**	**153,000**	**218,000**
		140	250	68	3.0	10		
22230BD1	**22230BKD1**	**5.9055**	**10.6299**	**2.8740**	**.118**	**.47**	**174,000**	**262,000**
		150	270	73	3.0	12		
22232BD1	**22232BKD1**	**6.2992**	**11.4173**	**3.1496**	**.118**	**.47**	**195,000**	**290,000**
		160	290	80	3.0	12		
22234BD1	**22234BKD1**	**6.6929**	**12.2047**	**3.3858**	**.157**	**.47**	**225,000**	**340,000**
		170	310	86	4.0	12		
22236B	**22236BK**	**7.0866**	**12.5984**	**3.3858**	**.157**	**.47**	**233,000**	**360,000**
		180	320	86	4.0	12		
22238B	**22238BK**	**7.4803**	**13.3858**	**3.6220**	**.157**	**.47**	**260,000**	**410,000**
		190	340	92	4.0	12		
22240B	**22240BK**	**7.8740**	**14.1732**	**3.8583**	**.157**	**.47**	**295,000**	**450,000**
		200	360	98	4.0	12		
22244B	**22244BK**	**8.6614**	**15.7480**	**4.2520**	**.157**	**.47**	**350,000**	**545,000**
		220	400	108	4.0	12		
22248B	**22248BK**	**9.4488**	**17.3228**	**4.7244**	**.157**	**.63**	**430,000**	**680,000**
		240	440	120	4.0	16		
22252B	**22252BK**	**10.2362**	**18.8976**	**5.1181**	**.197**	**.63**	**500,000**	**805,000**
		260	480	130	5.0	16		
22256B	**22256BK**	**11.0236**	**19.6850**	**5.1181**	**.197**	**.63**	**520,000**	**855,000**
		280	500	130	5.0	16		
22260B	**22260BK**	**11.8110**	**21.2598**	**5.5118**	**.197**	**.79**	**600,000**	**975,000**
		300	540	140	5.0	20		
22264B	**22264BK**	**12.5984**	**22.8346**	**5.9055**	**.197**	**.79**	**695,000**	**1,140,000**
		320	580	150	5.0	20		

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 22236B(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

For bearings with a blank G dimension, no lubrication holes and oil groove are provided. These features may be added upon request. (Add suffix D1.)

Note: 'E' type features higher load capacity and high temp. resin cages (40° C to 150° C); EP oil additives could effect cage material.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

Units: **INCHES**
Millimeters

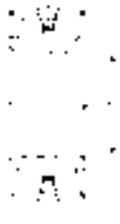
NTN SERIES 223

Bearing No. 223	Bearing No. 223K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static* C_o
22308CD1	22308CKD1	1.5748	3.5433	1.2992	.039	—	27,200	28,800
		40	90	33	1.0	—		
22309CD1	22309CKD1	1.7717	3.9370	1.4173	.059	—	33,000	37,500
		45	100	36	1.5	—		
22310CD1	22310CKD1	1.9685	4.3307	1.5748	.059	—	42,000	47,500
		50	110	40	1.5	—		
22311BD1	22311BKD1	2.1654	4.7244	1.6929	.098	—	46,000	52,500
		55	120	43	2.5	—		
22312BD1	22312BKD1	2.3622	5.1181	1.8110	.098	—	53,000	60,500
		60	130	46	2.5	—		
22313BD1	22313BKD1	2.5591	5.5118	1.8898	.098	—	59,500	71,000
		65	140	48	2.5	—		
22314BD1	22314BKD1	2.7559	5.9055	2.0079	.098	—	72,500	85,000
		70	150	51	2.5	—		
22315BD1	22315BKD1	2.9528	6.2992	2.1654	.098	—	74,000	92,000
		75	160	55	2.5	—		
22316BD1	22316BKD1	3.1496	6.6929	2.2835	.098	—	86,000	105,000
		80	170	58	2.5	—		
22317BD1	22317BKD1	3.3465	7.0866	2.3622	.118	.31	93,500	115,000
		85	180	60	3.0	8		
22318BD1	22318BKD1	3.5433	7.4803	2.5197	.118	.39	107,000	132,000
		90	190	64	3.0	10		
22319BD1	22319BKD1	3.7402	7.8740	2.6378	.118	.39	112,000	138,000
		95	200	67	3.0	10		
22320BD1	22320BKD1	3.9370	8.4646	2.8740	.118	.39	136,000	169,000
		100	215	73	3.0	10		
22322BD1	22322BKD1	4.3307	9.4488	3.1496	.118	.39	167,000	209,000
		110	240	80	3.0	10		
22324BD1	22324BKD1	4.7244	10.2362	3.3858	.118	.47	198,000	252,000
		120	260	86	3.0	12		
22326BD1	22326BKD1	5.1181	11.0236	3.6614	.157	.47	221,000	282,000
		130	280	93	4.0	12		
22328BD1	22328BKD1	5.5118	11.8110	4.0157	.157	.47	250,000	320,000
		140	300	102	4.0	12		
22330B	22330BK	5.9055	12.5984	4.2520	.157	.47	281,000	385,000
		150	320	108	4.0	12		
22332B	22332BK	6.2992	13.3858	4.4882	.157	.47	315,000	440,000
		160	340	114	4.0	12		
22334B	22334BK	6.6929	14.1732	4.7244	.157	.47	340,000	480,000
		170	360	120	4.0	12		
22336B	22336BK	7.0866	14.9606	4.9606	.157	.47	385,000	565,000
		180	380	126	4.0	12		
22338B	22338BK	7.4803	15.7480	5.1969	.197	.47	415,000	615,000
		190	400	132	5.0	12		
22340B	22340BK	7.8740	16.5354	5.4331	.197	.63	460,000	680,000
		200	420	138	5.0	16		
22344B	22344BK	8.6614	18.1102	5.7087	.197	.63	530,000	790,000
		220	460	145	5.0	16		
22348B	22348BK	9.4488	19.6850	6.1024	.197	.63	605,000	910,000
		240	500	155	5.0	16		
22352B	22352BK	10.2362	21.2598	6.4961	.197	.79	695,000	1,060,000
		260	540	165	5.0	20		
22356B	22356BK	11.0236	22.8346	6.8898	.236	.79	790,000	1,200,000
		280	580	175	6.0	20		
22360B	22360BK	11.8110	24.4094	7.2835	.295	.79	805,000	1,210,000
		300	620	185	7.5	20		

In this series, machined brass cages are also available. When placing an order for them, put the suffix L1 on the bearing number.

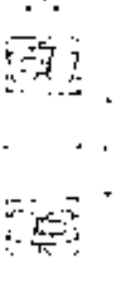
Example: 22311BL1

Cylindrical Bore
223B
223C



Tapered Bore
223BK
223CK
Taper 1:12

Cylindrical Bore
223B



Tapered Bore
223BK
Taper 1:12

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 22330B(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

For bearings with a blank G dimension, no lubrication holes and oil groove are provided. These features may be added upon request. (Add suffix D1.)

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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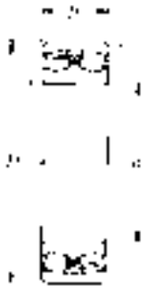
NTN
SERIES
230

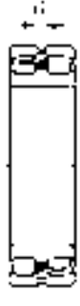
Units: **INCHES**
Millimeters

In this series, machined brass cages are also available. When placing an order for them, put the suffix L1 on the bearing number.

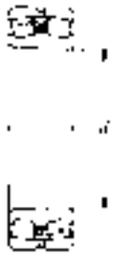
Example: 23024BL1D1



Cylindrical Bore
230



Cylindrical Bore
230



Tapered Bore
230K
Taper 1:12

SPHERICAL ROLLER BEARINGS

Bearing No. 230	Bearing No. 230K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static* C_o
23022BD1	**23022BKD1**	**4.3307** 110	**6.6929** 170	**1.7717** 45	**.098** 2.5	**.31** 8	**63,500**	**102,000**
23024BD1	**23024BKD1**	**4.7244** 120	**7.0866** 180	**1.8110** 46	**.098** 2.5	**.31** 8	**66,500**	**111,000**
23026BD1	**23026BKD1**	**5.1181** 130	**7.8740** 200	**2.0472** 52	**.098** 2.5	**.31** 8	**84,500**	**139,000**
23028BD1	**23028BKD1**	**5.5118** 140	**8.2677** 210	**2.0866** 53	**.098** 2.5	**.31** 8	**90,500**	**156,000**
23030BD1	**23030BKD1**	**5.9055** 150	**8.8583** 225	**2.2047** 56	**.098** 2.5	**.31** 8	**100,000**	**174,000**
23032BD1	**23032BKD1**	**6.2992** 160	**9.4488** 240	**2.3622** 60	**.098** 2.5	**.31** 8	**114,000**	**199,000**
23034BD1	**23034BKD1**	**6.6929** 170	**10.2362** 260	**2.6378** 67	**.098** 2.5	**.39** 10	**141,000**	**242,000**
23036BD1	**23036BKD1**	**7.0866** 180	**11.0236** 280	**2.9134** 74	**.098** 2.5	**.39** 10	**166,000**	**291,000**
23038BD1	**23038BKD1**	**7.4803** 190	**11.4173** 290	**2.9528** 75	**.098** 2.5	**.39** 10	**170,000**	**305,000**
23040BD1	**23040BKD1**	**7.8740** 200	**12.2047** 310	**3.2283** 82	**.098** 2.5	**.39** 10	**205,000**	**365,000**
23044B	**23044BK**	**8.6614** 220	**13.3858** 340	**3.5433** 90	**.118** 3.0	**.47** 12	**238,000**	**430,000**
23048B	**23048BK**	**9.4488** 240	**14.1732** 360	**3.6220** 92	**.118** 3.0	**.47** 12	**255,000**	**480,000**
23052B	**23052BK**	**10.2362** 260	**15.7480** 400	**4.0945** 104	**.157** 4.0	**.47** 12	**320,000**	**590,000**
23056B	**23056BK**	**11.0236** 280	**16.5354** 420	**4.1732** 106	**.157** 4.0	**.47** 12	**340,000**	**655,000**
23060B	**23060BK**	**11.8110** 300	**18.1102** 460	**4.6457** 118	**.157** 4.0	**.47** 12	**425,000**	**800,000**
23064B	**23064BK**	**12.5984** 320	**18.8976** 480	**4.7638** 121	**.157** 4.0	**.47** 12	**440,000**	**870,000**
23068B	**23068BK**	**13.3858** 340	**20.4724** 520	**5.2362** 133	**.197** 5.0	**.63** 16	**505,000**	**990,000**
23072B	**23072BK**	**14.1732** 360	**21.2598** 540	**5.2756** 134	**.197** 5.0	**.63** 16	**535,000**	**1,060,000**
23076B	**23076BK**	**14.9606** 380	**22.0472** 560	**5.3150** 135	**.197** 5.0	**.63** 16	**550,000**	**1,120,000**
23080B	**23080BK**	**15.7480** 400	**23.6220** 600	**5.8268** 148	**.197** 5.0	**.63** 16	**655,000**	**1,320,000**
23084B	**23084BK**	**16.5354** 420	**24.4094** 620	**5.9055** 150	**.197** 5.0	**.63** 16	**680,000**	**1,400,000**
23088B	**23088BK**	**17.3228** 440	**25.5906** 650	**6.1811** 157	**.236** 6.0	**.79** 20	**735,000**	**1,540,000**
23092B	**23092BK**	**18.1102** 460	**26.7717** 680	**6.4173** 163	**.236** 6.0	**.79** 20	**805,000**	**1,680,000**
23096B	**23096BK**	**18.8976** 480	**27.5591** 700	**6.4961** 165	**.236** 6.0	**.79** 20	**835,000**	**1,770,000**
230/500B	**230/500BK**	**19.6850** 500	**28.3465** 720	**6.5748** 167	**.236** 6.0	**.79** 20	**860,000**	**1,870,000**
230/530B	**230/530BK**	**20.8661** 530	**30.7087** 780	**7.2835** 185	**.236** 6.0	**.79** 20	**985,000**	**2,110,000**
230/560B	**230/560BK**	**22.0472** 560	**32.2835** 820	**7.6772** 195	**.236** 6.0	**.79** 20	**1,080,000**	**2,360,000**
230/600B	**230/600BK**	**23.6220** 600	**34.2520** 870	**7.8740** 200	**.236** 6.0	**.79** 20	**1,160,000**	**2,640,000**
230/630B	**230/630BK**	**24.8031** 630	**36.2205** 920	**8.3465** 212	**.295** 7.5	**.79** 20	**1,320,000**	**2,920,000**
230/670B	**230/670BK**	**26.3780** 670	**38.5827** 980	**9.0551** 230	**.295** 7.5	**.79** 20	**1,470,000**	**3,300,000**
230/710B	**230/710BK**	**27.9528** 710	**40.5512** 1030	**9.2913** 236	**.295** 7.5	**.94** 24	**1,610,000**	**3,650,000**
230/750B	**230/750BK**	**29.5276** 750	**42.9134** 1090	**9.8425** 250	**.295** 7.5	**.94** 24	**1,840,000**	**4,100,000**

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 23044B(K) and over, the suffix D1 is not needed as the lubrication holes and the oil groove are standard.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

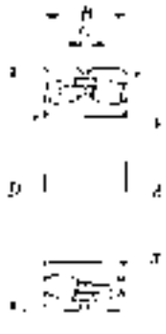
Units: **INCHES**
Millimeters

NTN
SERIES 231

Bearing No. 231	Bearing No. 231K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static* C_o
23122BD1	**23122BKD1**	**4.3307**	**7.0866**	**2.2047**	**.098**	**.31**	**83,000**	**131,000**
		110	180	56	2.5	8		
23124BD1	**23124BKD1**	**4.7244**	**7.8740**	**2.4409**	**.098**	**.39**	**102,000**	**158,000**
		120	200	62	2.5	10		
23126BD1	**23126BKD1**	**5.1181**	**8.2677**	**2.5197**	**.098**	**.39**	**111,000**	**179,000**
		130	210	64	2.5	10		
23128BD1	**23128BKD1**	**5.5118**	**8.8583**	**2.6772**	**.098**	**.39**	**121,000**	**201,000**
		140	225	68	2.5	10		
23130BD1	**23130BKD1**	**5.9055**	**9.8425**	**3.1496**	**.098**	**.39**	**165,000**	**268,000**
		150	250	80	2.5	10		
23132BD1	**23132BKD1**	**6.2992**	**10.6299**	**3.3858**	**.098**	**.47**	**189,000**	**310,000**
		160	270	86	2.5	12		
23134BD1	**23134BKD1**	**6.6929**	**11.0236**	**3.4646**	**.098**	**.47**	**199,000**	**335,000**
		170	280	88	2.5	12		
23136BD1	**23136BKD1**	**7.0866**	**11.8110**	**3.7795**	**.118**	**.47**	**232,000**	**390,000**
		180	300	96	3.0	12		
23138B	**23138BK**	**7.4803**	**12.5984**	**4.0945**	**.118**	**.47**	**268,000**	**455,000**
		190	320	104	3.0	12		
23140B	**23140BK**	**7.8740**	**13.3858**	**4.4094**	**.118**	**.47**	**305,000**	**510,000**
		200	340	112	3.0	12		
23144B	**23144BK**	**8.6614**	**14.5669**	**4.7244**	**.157**	**.47**	**350,000**	**610,000**
		220	370	120	4.0	12		
23148B	**23148BK**	**9.4488**	**15.7480**	**5.0394**	**.157**	**.47**	**390,000**	**690,000**
		240	400	128	4.0	12		
23152B	**23152BK**	**10.2362**	**17.3228**	**5.6693**	**.157**	**.63**	**470,000**	**845,000**
		260	440	144	4.0	16		
23156B	**23156BK**	**11.0236**	**18.1102**	**5.7480**	**.197**	**.63**	**505,000**	**930,000**
		280	460	146	5.0	16		
23160B	**23160BK**	**11.8110**	**19.6850**	**6.2992**	**.197**	**.63**	**605,000**	**1,090,000**
		300	500	160	5.0	16		
23164B	**23164BK**	**12.5984**	**21.2598**	**6.9291**	**.197**	**.79**	**700,000**	**1,300,000**
		320	540	176	5.0	20		
23168B	**23168BK**	**13.3858**	**22.8346**	**7.4803**	**.197**	**.79**	**810,000**	**1,480,000**
		340	580	190	5.0	20		
23172B	**23172BK**	**14.1732**	**23.6220**	**7.5591**	**.197**	**.79**	**845,000**	**1,580,000**
		360	600	192	5.0	20		
23176B	**23176BK**	**14.9606**	**24.4094**	**7.6378**	**.197**	**.79**	**880,000**	**1,690,000**
		380	620	194	5.0	20		
23180B	**23180BK**	**15.7480**	**25.5906**	**7.8740**	**.236**	**.94**	**940,000**	**1,810,000**
		400	650	200	6.0	24		
23184B	**23184BK**	**16.5354**	**27.5591**	**8.8189**	**.236**	**.94**	**1,150,000**	**2,200,000**
		420	700	224	6.0	24		
23188B	**23188BK**	**17.3228**	**28.3465**	**8.8976**	**.236**	**.94**	**1,170,000**	**2,260,000**
		440	720	226	6.0	24		
23192B	**23192BK**	**18.1102**	**28.9212**	**9.4488**	**.295**	**.94**	**1,290,000**	**2,560,000**
		460	760	240	7.5	24		
23196B	**23196BK**	**18.8976**	**31.1024**	**9.7638**	**.295**	**.94**	**1,410,000**	**2,810,000**
		480	790	248	7.5	24		
231/500B	**231/500BK**	**19.6850**	**32.6772**	**10.3937**	**.295**	**.94**	**1,540,000**	**3,050,000**
		500	830	264	7.5	24		
231/530B	**231/530BK**	**20.8661**	**34.2520**	**10.7087**	**.295**	**.94**	**1,570,000**	**3,200,000**
		530	870	272	7.5	24		
231/560B	**231/560BK**	**22.0472**	**36.2205**	**11.0236**	**.295**	**.94**	**1,720,000**	**3,500,000**
		560	920	280	7.5	24		
231/600B	**231/600BK**	**23.6220**	**38.5827**	**11.8110**	**.295**	**.94**	**2,030,000**	**4,150,000**
		600	980	300	7.5	24		
231/630B	**231/630BK**	**24.8031**	**40.5512**	**12.4016**	**.295**	**.94**	**2,150,000**	**4,450,000**
		630	1030	315	7.5	24		
231/670B	**231/670BK**	**26.3780**	**42.9134**	**13.2283**	**.295**	**.94**	**2,530,000**	**5,300,000**
		670	1090	336	7.5	24		
231/710B	**231/710BK**	**27.9528**	**45.2756**	**13.5827**	**.374**	**.94**	**2,620,000**	**5,600,000**
		710	1150	345	9.5	24		

In this series, machined brass cages are also available. When placing an order for them, put the suffix L1 on the bearing number.

Example: 23124BL1D1



Cylindrical Bore
231

Tapered Bore
231K
Taper 1:12

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 23138B(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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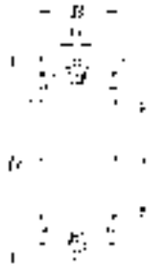
روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

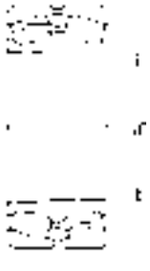
NTN
SERIES 232

Units: **INCHES**
Millimeters

Use Suffix L1 for brass cages.
Example: 23218BL1



Cylindrical Bore
232



Tapered Bore
232K
Taper 1:12

SPHERICAL ROLLER BEARINGS

Bearing No.		Bore	O.D.	Width	Fillet Radius	Oil Groove Width	Basic Load Ratings (lbs)	
232	232K	*d*	*D*	*B*	*r*	*G*	*Dynamic C*	*Static C_o*
23218BD1	**23218BKD1**	**3.5433**	**6.2992**	**2.0630**	**.039**	**—**	**71,500**	**103,000**
		90	160	52.4	1.0	—		
23220BD1	**23220BKD1**	**3.9370**	**7.0866**	**3.3740**	**.083**	**—**	**91,000**	**130,000**
		100	180	60.3	2.1	—		
23222BD1	**23222BKD1**	**4.3307**	**7.8740**	**2.7480**	**.079**	**.39**	**115,000**	**171,000**
		110	200	69.8	2.0	10		
23224BD1	**23224BKD1**	**4.7244**	**8.4646**	**2.9921**	**.079**	**.39**	**132,000**	**198,000**
		120	215	76	2.0	10		
23226BD1	**23226BKD1**	**5.1181**	**9.0551**	**3.1496**	**.098**	**.39**	**154,000**	**239,000**
		130	230	80	2.5	10		
23228BD1	**23228BKD1**	**5.5118**	**9.8425**	**3.4646**	**.098**	**.39**	**181,000**	**285,000**
		140	250	88	2.5	10		
23230BD1	**23230BKD1**	**5.9055**	**10.6299**	**3.7705**	**.098**	**.47**	**210,000**	**330,000**
		150	270	96	2.5	12		
23232BD1	**23232BKD1**	**6.2992**	**11.4173**	**4.0945**	**.098**	**.47**	**237,000**	**375,000**
		160	290	104	2.5	12		
23234BD1	**23234BKD1**	**6.6929**	**12.2047**	**4.3307**	**.118**	**.47**	**264,000**	**440,000**
		170	310	110	3.0	12		
23236B	**23236BK**	**7.0866**	**12.5984**	**4.4094**	**.118**	**.47**	**284,000**	**465,000**
		180	320	112	3.0	12		
23238B	**23238BK**	**7.4803**	**13.3858**	**4.7244**	**.118**	**.47**	**320,000**	**530,000**
		190	340	120	3.0	12		
23240B	**23240BK**	**7.8740**	**14.1732**	**5.0394**	**.118**	**.47**	**365,000**	**595,000**
		200	360	128	3.0	12		
23244B	**23244BK**	**8.6614**	**15.7480**	**5.6693**	**.118**	**.47**	**440,000**	**730,000**
		220	400	144	3.0	12		
23248B	**23248BK**	**9.4488**	**17.3228**	**6.2992**	**.118**	**.63**	**535,000**	**900,000**
		240	440	160	3.0	16		
23252B	**23252BK**	**10.2362**	**18.8976**	**6.8504**	**.157**	**.63**	**620,000**	**1,060,000**
		260	480	174	4.0	16		
23256B	**23256BK**	**11.0236**	**19.6850**	**6.9291**	**.157**	**.63**	**660,000**	**1,160,000**
		280	500	176	4.0	16		
23260B	**23260BK**	**11.8110**	**21.2598**	**7.5591**	**.157**	**.79**	**775,000**	**1,350,000**
		300	540	192	4.0	20		
23264B	**23264BK**	**12.5984**	**22.8346**	**8.1890**	**.157**	**.79**	**890,000**	**1,560,000**
		320	580	208	4.0	20		
23268B	**23268BK**	**13.3858**	**24.4094**	**8.8189**	**.197**	**.79**	**990,000**	**1,760,000**
		340	620	224	5.0	20		
23272B	**23272BK**	**14.1732**	**25.5906**	**9.1339**	**.197**	**.94**	**1,090,000**	**1,950,000**
		360	650	232	5.0	24		
23276B	**23276BK**	**14.9606**	**26.7717**	**9.4488**	**.197**	**.94**	**1,170,000**	**2,170,000**
		380	680	240	5.0	24		
23280B	**23280BK**	**15.7480**	**28.3465**	**10.0787**	**.197**	**.94**	**1,330,000**	**2,420,000**
		400	720	256	5.0	24		
23284B	**23284BK**	**16.5354**	**29.9213**	**10.7087**	**.295**	**.94**	**1,450,000**	**2,660,000**
		420	760	272	7.5	24		
23288B	**23288BK**	**17.3228**	**31.1024**	**11.0236**	**.295**	**.94**	**1,530,000**	**2,850,000**
		440	790	280	7.5	24		
23292B	**23292BK**	**18.1102**	**32.6772**	**11.6535**	**.295**	**.94**	**1,730,000**	**3,200,000**
		460	830	296	7.5	24		
23296B	**23296BK**	**18.8976**	**34.2520**	**12.2047**	**.295**	**.94**	**1,880,000**	**3,550,000**
		480	870	310	7.5	24		
232/500B	**232/500BK**	**19.6850**	**36.2205**	**13.2283**	**.295**	**.94**	**2,120,000**	**4,000,000**
		500	920	336	7.5	24		
232/530B	**232/530BK**	**20.8661**	**38.5826**	**13.9764**	**.295**	**1.65**	**2,330,000**	**4,450,000**
		530	980	355	7.5	42		
232/560B	**232/560BK**	**22.0472**	**40.5511**	**14.3701**	**.374**	**1.65**	**2,490,000**	**4,750,000**
		560	1,030	365	9.5	42		
232/600B	**232/600BK**	**23.6220**	**42.9133**	**15.2756**	**.374**	**1.65**	**2,740,000**	**5,350,000**
		600	1,090	388	9.5	42		
232/630B	**232/630BK**	**24.8031**	**45.2755**	**16.2204**	**.374**	**1.65**	**3,100,000**	**6,050,000**
		630	1,150	412	9.5	42		
232/670B	**232/670BK**	**26.3779**	**48.0314**	**71.2441**	**.374**	**1.65**	**3,600,000**	**7,150,000**
		670	1220	438	9.5	42		
232/710B	**232/710BK**	**27.9527**	**50.3936**	**17.7165**	**.374**	**1.65**	**3,650,000**	**7,300,000**
		710	1280	450	9.5	42		
232/750B	**232/750BK**	**29.5275**	**53.5432**	**18.7008**	**.374**	**1.65**	**4,100,000**	**8,250,000**
		750	1,360	475	9.5	42		

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 23236B(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

Units: **INCHES**
Millimeters

NTN SERIES 239

Bearing No. 239	Bearing No. 239K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static C_o*
23926D1	**23926KD1**	**5.1181**	**7.0866**	**1.4567**	**.079**	**.28**	**48,000**	**85,000**
		130	180	37	2.0	7		
23932D1	**23932KD1**	**6.2992**	**8.6614**	**1.7717**	**.098**	**.31**	**72,500**	**138,000**
		160	220	45	2.5	8		
23934D1	**23934KD1**	**6.6929**	**9.0551**	**1.7717**	**.098**	**.31**	**74,500**	**146,000**
		170	230	45	2.5	8		
23936D1	**23936KD1**	**7.0866**	**9.8425**	**2.0472**	**.098**	**.31**	**99,500**	**188,000**
		180	250	52	2.5	8		
23938D1	**23938KD1**	**7.4803**	**10.2362**	**2.0472**	**.098**	**.39**	**103,000**	**200,000**
		190	260	52	2.5	10		
23940D1	**23940KD1**	**7.8740**	**11.0236**	**2.3622**	**.098**	**.39**	**123,000**	**247,000**
		200	280	60	2.5	10		
23944D1	**23944KD1**	**8.6614**	**11.8110**	**2.3622**	**.098**	**.39**	**127,000**	**263,000**
		220	300	60	2.5	10		
23948	**23948K**	**9.4488**	**12.5984**	**2.3622**	**.098**	**.47**	**127,000**	**267,000**
		240	320	60	2.5	12		
23952	**23952K**	**10.2362**	**14.1732**	**2.9528**	**.098**	**.47**	**171,000**	**355,000**
		260	360	75	2.5	12		
23956	**23956K**	**11.0236**	**14.9606**	**2.9528**	**.098**	**.47**	**187,000**	**395,000**
		280	380	75	2.5	12		
23960	**23960K**	**11.8110**	**16.5354**	**3.5433**	**.118**	**.47**	**249,000**	**520,000**
		300	420	90	3.0	12		
23964	**23964K**	**12.5984**	**17.3228**	**3.5433**	**.118**	**.47**	**257,000**	**555,000**
		320	440	90	3.0	12		
23968	**23968K**	**13.3858**	**18.1102**	**3.5433**	**.118**	**.47**	**274,000**	**595,000**
		340	460	90	3.0	12		
23972	**23972K**	**14.1732**	**18.8976**	**3.5433**	**.118**	**.47**	**298,000**	**660,000**
		360	480	90	3.0	12		
23976	**23976K**	**14.9606**	**20.4724**	**4.1732**	**.157**	**.63**	**350,000**	**795,000**
		380	520	106	4.0	16		
23980	**23980K**	**15.7480**	**21.2598**	**4.1732**	**.157**	**.63**	**355,000**	**820,000**
		400	540	106	4.0	16		
23984	**23984K**	**16.5354**	**22.0472**	**4.1732**	**.157**	**.63**	**365,000**	**865,000**
		420	560	106	4.0	16		
23988	**23988K**	**17.3228**	**23.6220**	**4.6457**	**.157**	**.63**	**455,000**	**1,050,000**
		440	600	118	4.0	16		
23992	**23992K**	**18.1102**	**24.4094**	**4.6457**	**.157**	**.63**	**470,000**	**1,110,000**
		460	620	118	4.0	16		
23996	**23996K**	**18.8976**	**25.5906**	**5.0394**	**.197**	**.79**	**525,000**	**1,240,000**
		480	650	128	5.0	20		
239/500	**239/500K**	**19.6850**	**26.3780**	**5.0394**	**.197**	**.79**	**535,000**	**1,260,000**
		500	670	128	5.0	20		
239/530	**239/530K**	**20.8661**	**27.5928**	**5.3543**	**.197**	**.79**	**595,000**	**1,450,000**
		530	710	136	5.0	20		
239/560	**239/560K**	**22.0472**	**29.5276**	**5.5118**	**.197**	**.79**	**635,000**	**1,500,000**
		560	750	140	5.0	20		
239/600	**239/600K**	**23.6220**	**31.4961**	**5.9055**	**.197**	**.79**	**710,000**	**1,750,000**
		600	800	150	5.0	20		
239/630	**239/630K**	**24.8031**	**33.4646**	**6.4961**	**.236**	**.79**	**830,000**	**2,080,000**
		630	850	165	6.0	20		
239/670	**239/670K**	**26.3780**	**35.4331**	**6.6929**	**.236**	**.79**	**925,000**	**2,330,000**
		670	900	170	6.0	20		
239/710	**239/710K**	**27.9528**	**37.4016**	**7.0866**	**.236**	**.79**	**995,000**	**2,580,000**
		710	950	180	6.0	20		
239/750	**239/750K**	**29.5276**	**39.3701**	**7.2835**	**.236**	**.79**	**1,130,000**	**2,930,000**
		750	1000	185	6.0	20		
239/800	**239/800K**	**31.4961**	**41.7323**	**7.6772**	**.236**	**.94**	**1,220,000**	**3,100,000**
		800	1060	195	6.0	24		
239/850	**239/850K**	**33.4646**	**44.0945**	**7.8740**	**.236**	**.94**	**1,310,000**	**3,400,000**
		850	1120	200	6.0	24		
239/900	**239/900K**	**35.4331**	**46.4567**	**8.1102**	**.236**	**.94**	**1,490,000**	**3,900,000**
		900	1180	206	6.0	24		

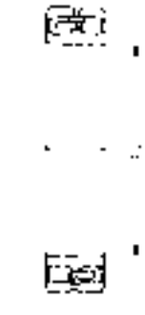
The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 23948(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

In this series, machined brass cages are also available. When placing an order for them, put the suffix L1 on the bearing number.

Example: 23932L1D1

Cylindrical Bore
239



Tapered Bore
239K
Taper 1:12

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

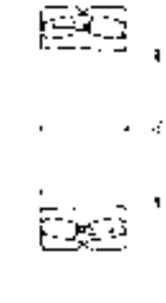
NTN
SERIES 240

Units: **INCHES**
Millimeters

Bearing Numbers 24048B(K30) and under have machined brass cages. Machined brass cage are also available for bearing numbers 24052B(K30) and over. When placing an order for them, put the suffix L1 on the bearing number.

Example: 24052BL1

Cylindrical Bore
240



Tapered Bore
240K30
Taper 1:30

SPHERICAL ROLLER BEARINGS

Bearing No. 240	Bearing No. 240K30	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static* C_o
24024BD1	**24024BK30D1**	**4.7244** 120	**7.0866** 180	**2.3622** 60	**.098** 2.5	**.31** 8	**87,000**	**151,000**
24026BD1	**24026BK30D1**	**5.1181** 130	**7.8740** 200	**2.7165** 69	**.098** 2.5	**.31** 8	**114,000**	**201,000**
24028BD1	**24028BK30D1**	**5.5118** 140	**8.2677** 210	**2.7165** 69	**.098** 2.5	**.31** 8	**115,000**	**213,000**
24030BD1	**24030BK30D1**	**5.9055** 150	**8.8583** 225	**2.9528** 75	**.098** 2.5	**.31** 8	**131,000**	**238,000**
24032BD1	**24032BK30D1**	**6.2992** 160	**9.4488** 240	**3.1496** 80	**.098** 2.5	**.31** 8	**146,000**	**269,000**
24034BD1	**24034BK30D1**	**6.6929** 170	**10.2362** 260	**3.5433** 90	**.098** 2.5	**.39** 10	**180,000**	**330,000**
24036BD1	**24036BK30D1**	**7.0866** 180	**11.0236** 280	**3.9370** 100	**.098** 2.5	**.39** 10	**219,000**	**405,000**
24038BD1	**24038BK30D1**	**7.4803** 190	**11.4173** 290	**3.9370** 100	**.098** 2.5	**.39** 10	**224,000**	**415,000**
24040BD1	**24040BK30D1**	**7.8740** 200	**12.2047** 310	**4.2913** 109	**.098** 2.5	**.39** 10	**264,000**	**490,000**
24044B	**24044BK30**	**8.6614** 220	**13.3858** 340	**4.6457** 118	**.118** 3.0	**.47** 12	**305,000**	**580,000**
24048B	**24048BK30**	**9.4488** 240	**14.1732** 360	**4.6457** 118	**.118** 3.0	**.47** 12	**320,000**	**630,000**
24052B	**24052BK30**	**10.2362** 260	**15.7480** 400	**5.5118** 140	**.118** 3.0	**.47** 12	**410,000**	**800,000**
24056B	**24056BK30**	**11.0236** 280	**16.5354** 420	**5.5118** 140	**.118** 3.0	**.47** 12	**440,000**	**890,000**
24060B	**24060BK30**	**11.8110** 300	**18.1102** 460	**6.2992** 160	**.118** 3.0	**.47** 12	**550,000**	**1,120,000**
24064B	**24064BK30**	**12.5984** 320	**18.8976** 480	**6.2992** 160	**.118** 3.0	**.47** 12	**565,000**	**1,170,000**
24068B	**24068BK30**	**13.3858** 340	**20.4724** 520	**7.0866** 180	**.157** 4.0	**.63** 16	**675,000**	**1,390,000**
24072B	**24072BK30**	**14.1732** 360	**21.2598** 540	**7.0866** 180	**.157** 4.0	**.63** 16	**690,000**	**1,450,000**
24076B	**24076BK30**	**14.9606** 380	**22.0472** 560	**7.0866** 180	**.157** 4.0	**.63** 16	**715,000**	**1,560,000**
24080B	**24080BK30**	**15.7480** 400	**23.6220** 600	**7.8740** 200	**.157** 4.0	**.63** 16	**860,000**	**1,890,000**
24084B	**24084BK30**	**16.5354** 420	**24.4094** 620	**7.8740** 200	**.197** 5.0	**.63** 16	**870,000**	**1,900,000**
24088B	**24088BK30**	**17.3228** 440	**25.5906** 650	**8.3464** 212	**.236** 6.0	**.79** 20	**965,000**	**2,120,000**
24092B	**24092BK30**	**18.1102** 460	**26.7717** 680	**8.5827** 218	**.236** 6.0	**.79** 20	**1,030,000**	**2,280,000**
24096B	**24096BK30**	**18.8976** 480	**27.5591** 700	**8.5827** 218	**.236** 6.0	**.79** 20	**1,060,000**	**2,400,000**
240/500B	**240/500BK30**	**19.6850** 500	**28.3465** 720	**8.5827** 218	**.236** 6.0	**.79** 20	**1,090,000**	**2,500,000**

The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 24044B(K) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

Note: The *d* dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

Units: **INCHES**
Millimeters

NTN
SERIES 241

Bearing No. 241	Bearing No. 241K30	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static C_o*
24122BD1	**24122BK30D1**	**4.3307** 110	**7.0866** 180	**2.7165** 69	**.098** 2.5	**.31** 8	**101,000**	**170,000**
24124BD1	**24124BK30D1**	**4.7244** 120	**7.8740** 200	**3.1496** 80	**.098** 2.5	**.31** 8	**129,000**	**213,000**
24126BD1	**24126BK30D1**	**5.1181** 130	**8.2677** 210	**3.1496** 80	**.098** 2.5	**.31** 8	**132,000**	**224,000**
24128BD1	**24128BK30D1**	**5.5118** 140	**8.8583** 225	**3.3465** 85	**.098** 2.5	**.31** 8	**151,000**	**257,000**
24130BD1	**24130BK30D1**	**5.9055** 150	**9.8425** 250	**3.9370** 100	**.098** 2.5	**.31** 8	**201,000**	**350,000**
24132BD1	**24132BK30D1**	**6.2992** 160	**10.6299** 270	**4.2913** 109	**.098** 2.5	**.39** 10	**234,000**	**400,000**
24134BD1	**24134BK30D1**	**6.6929** 170	**11.0236** 280	**4.2913** 109	**.098** 2.5	**.39** 10	**242,000**	**420,000**
24136BD1	**24136BK30D1**	**7.0866** 180	**11.8110** 300	**4.6457** 118	**.118** 3.0	**.39** 10	**280,000**	**495,000**
24138B	**24138BK30**	**7.4803** 190	**12.5984** 320	**5.0394** 128	**.118** 3.0	**.47** 12	**320,000**	**555,000**
24140B	**24140BK30**	**7.8740** 200	**13.3858** 340	**5.5118** 140	**.118** 3.0	**.47** 12	**365,000**	**650,000**
24144B	**24144BK30**	**8.6614** 220	**14.5669** 370	**5.9055** 150	**.157** 4.0	**.47** 12	**425,000**	**760,000**
24148B	**24148BK30**	**9.4488** 240	**15.7480** 400	**6.2992** 160	**.157** 4.0	**.47** 12	**475,000**	**860,000**
24152B	**24152BK30**	**10.2362** 260	**17.3228** 440	**7.0866** 180	**.157** 4.0	**.47** 12	**555,000**	**1,010,000**
24156B	**24156BK30**	**11.0236** 280	**18.1102** 460	**7.0866** 180	**.197** 5.0	**.47** 12	**605,000**	**1,150,000**
24160B	**24160BK30**	**11.8110** 300	**19.6850** 500	**7.8740** 200	**.197** 5.0	**.47** 12	**745,000**	**1,430,000**
24164B	**24164BK30**	**12.5984** 320	**21.2598** 540	**8.5827** 218	**.197** 5.0	**.63** 16	**865,000**	**1,640,000**
24168B	**24168BK30**	**13.3858** 340	**22.8346** 580	**9.5669** 243	**.197** 5.0	**.63** 16	**1,030,000**	**2,010,000**
24172B	**24172BK30**	**14.1732** 360	**23.6220** 600	**9.5669** 243	**.197** 5.0	**.63** 16	**1,040,000**	**2,090,000**
24176B	**24176BK30**	**14.9606** 380	**24.4094** 620	**9.5669** 243	**.197** 5.0	**.63** 16	**1,070,000**	**2,130,000**
24180B	**24180BK30**	**15.7480** 400	**25.5906** 650	**9.8425** 250	**.236** 6.0	**.79** 20	**1,140,000**	**2,330,000**
24184B	**24184BK30**	**16.5354** 420	**27.5591** 700	**11.0236** 280	**.236** 6.0	**.79** 20	**1,380,000**	**2,740,000**
24188B	**24188BK30**	**17.3228** 440	**28.3465** 720	**11.0236** 280	**.236** 6.0	**.79** 20	**1,450,000**	**2,940,000**
24192B	**24192BK30**	**18.1102** 460	**29.9213** 760	**11.8110** 300	**.295** 7.5	**.79** 20	**1,600,000**	**3,250,000**
24196B	**24196BK30**	**18.8976** 480	**31.1024** 790	**12.1260** 308	**.295** 7.5	**.79** 20	**1,690,000**	**3,500,000**
241/500B	**241/500BK30**	**19.6850** 500	**32.6772** 830	**12.7953** 325	**.295** 7.5	**.79** 20	**1,830,000**	**3,800,000**

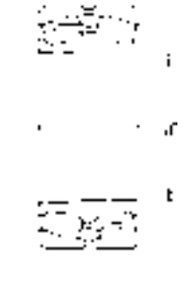
The suffix D1 means the bearing has lubrication holes and an oil groove. However, for bearing numbers 24138B(K30) and over, the suffix D1 is not needed as the lubrication holes and oil groove are standard.

Note: The d dimension for the tapered bore is measured from the side of the bearing with the smallest bore dimension.

Bearing numbers 24144B(K30) and under have machined brass cages. Machined brass cages are also available for bearing numbers 24148B(K30) and over. When placing an order for them, put the suffix L1 on the bearing number.

Example: 24148BL1

Cylindrical Bore
241



Tapered Bore
241K30
Taper 1:30

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روبروی پالایشگاه نفت پارس، پلاک ۱۲

FAMCO
هایپرصنعت

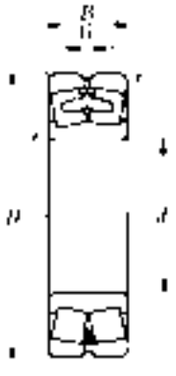
NTN

SERIES 223 UAVS1

SHAKER SCREEN BEARINGS

Units: **INCHES**
Millimeters

The cage is made of machined brass.



223

SPHERICAL ROLLER BEARINGS

Bearing. No.	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static* C_o
22314UAVS1	**2.7559** 70	**5.9055** 150	**2.0079** 51	**.098** 2.5	**.31** 8	**77,000**	**92,500**
22315UAVS1	**2.9528** 75	**6.2992** 160	**2.1654** 55	**.098** 2.5	**.31** 8	**86,500**	**112,000**
22316UAVS1	**3.1496** 80	**6.6929** 170	**2.2835** 58	**.098** 2.5	**.31** 8	**94,500**	**118,000**
22317UAVS1	**3.3465** 85	**7.0866** 180	**2.3622** 60	**.118** 3.0	**.31** 8	**102,000**	**128,000**
22318UAVS1	**3.5433** 90	**7.4803** 190	**2.5197** 64	**.118** 3.0	**.39** 10	**116,000**	**146,000**
22319UAVS1	**3.7402** 95	**7.8740** 200	**2.6378** 67	**.118** 3.0	**.39** 10	**127,000**	**162,000**
22320UAVS1	**3.9370** 100	**8.4646** 215	**2.8740** 73	**.118** 3.0	**.39** 10	**151,000**	**194,000**
22322UAVS1	**4.3307** 110	**9.4488** 240	**3.1496** 80	**.118** 3.0	**.39** 10	**188,000**	**244,000**
22324UAVS1	**4.7244** 120	**10.2362** 260	**3.3858** 86	**.118** 3.0	**.47** 12	**212,000**	**276,000**
22326UAVS1	**5.1181** 130	**11.0236** 280	**3.6614** 93	**.157** 4.0	**.47** 12	**246,000**	**325,000**
22328UAVS1	**5.5118** 140	**11.8110** 300	**4.0157** 102	**.157** 4.0	**.47** 12	**287,000**	**385,000**
22330UAVS1	**5.9055** 150	**12.5984** 320	**4.2520** 108	**.157** 4.0	**.47** 12	**320,000**	**460,000**
22332UAVS1	**6.2992** 160	**13.3858** 340	**4.4882** 114	**.157** 4.0	**.47** 12	**345,000**	**495,000**
22334UAVS1	**3.6929** 170	**14.1732** 360	**4.7244** 120	**.157** 4.0	**.47** 12	**385,000**	**565,000**
22336UAVS1	**7.0866** 180	**14.9606** 380	**4.9606** 126	**.157** 4.0	**.47** 12	**435,000**	**655,000**
22338UAVS1	**7.4803** 190	**15.7480** 400	**5.1969** 132	**.197** 5.0	**.47** 12	**470,000**	**720,000**
22340UAVS1	**7.8740** 200	**16.5354** 420	**5.4331** 138	**.197** 5.0	**.63** 16	**500,000**	**765,000**

The suffix VS1 means the bearing has controlled O.D., bore and radial clearance for shaker screen application.

Note: Lubrication holes and oil groove provided as standard; suffix D1 not needed.

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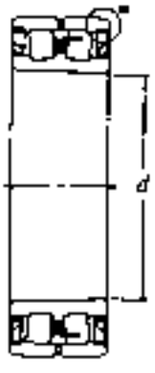
FAMCO
هایپرصنعت

SPHERICAL ROLLER BEARINGS

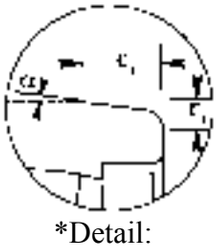
Units: Millimeters
INCHES

NTN
SERIES MX-W222
SEALED BEARINGS

Bearing No. MX-W222K	Bore *d*	O.D. *D*	Width *B*	Fillet Radius *r*	Oil Groove Width *G*	Basic Load Ratings (lbs) *Dynamic C*	Basic Load Ratings (lbs) *Static C*
MX-W22211BLLKC3	55 2.1654	100 3.9370	40 1.5748	0.60 0.024	6 0.2362	21,000	24,700
MX-W22213BLLKC3	65 2.5591	120 4.7244	46.5 1.8307	0.60 0.024	6 0.2362	32,000	40,000
MX-W22215BLLKC3	75 2.9528	130 5.1181	46.5 1.8307	0.60 0.024	8 0.3150	37,500	50,000
MX-W22217BLLKC3	85 3.3465	150 5.9055	51.5 2.0276	0.60 0.024	8 0.3150	46,500	61,000
MX-W22220BLLKC3	100 3.9370	180 7.0866	64.5 2.5394	1.0 0.039	8 0.3150	69,500	92,000
MX-W22222BLLKC3	110 4.3307	200 7.8740	71 2.7953	1.0 0.039	8 0.3150	92,000	128,000
MX-W22224BLLKC3	120 4.7244	215 8.4646	76 2.9921	1.0 0.039	10 0.3937	109,000	157,000
MX-W22226BLLKC3	130 5.1181	230 9.0551	84 3.3071	1.0 0.039	10 0.3937	127,000	176,000
MX-W22228BLLKC3	140 5.5118	250 9.8425	88 3.4627	1.0 0.039	10 0.3937	153,000	218,000
MX-W22232BLLKC3	160 6.2992	290 11.4173	104 4.0945	1.0 0.039	12 0.4724	196,000	290,000



Tapered Bore
MX-W222K
Taper 1:12



*Detail:

For outside diameter chamfer dimensions, contact NTN Engineering.

Note: The *d* dimensions for the tapered bore is measured from the side of the bearing with the smallest bore dimension. Lubrication holes and oil groove provided as standard, suffix D1 not needed.

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