



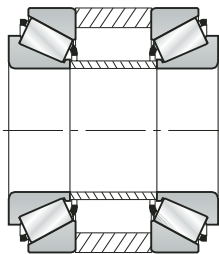
## THE TIMKEN® ISOCLASS™ BEARING SPECTRUM

### Standard IsoClass Bearings

The 30000 series bearings included in the original ISO/R 355 standard, often referenced as DIN720, now constitute the core of the IsoClass line of metric bearings.

### Customized IsoClass Bearings

Modified and flanged IsoClass bearings are indicated by prefixes and/or suffixes to the basic part number. These bearings are not interchangeable with bearings sharing the same basic part number.



IsoClass Spacer Assemblies

### IsoClass Spacer Assemblies

A wide range of spacer assemblies is available for numerous applications in the original-equipment and replacement markets.

Most single-row standard IsoClass bearings can be supplied as a two-row, pre-set, ready-to-fit assembly by adding spacers machined to pre-determined dimensions and tolerances.

For details, please contact your Timken sales representative.

### Modified IsoClass Bearings

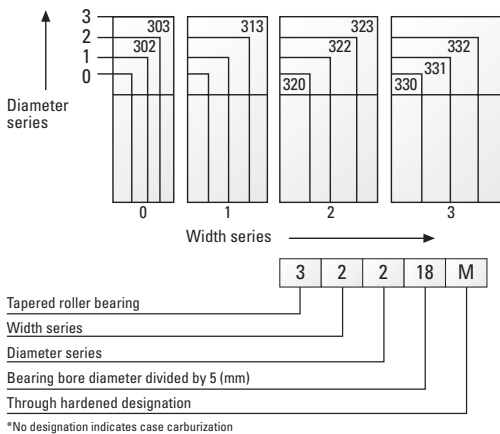
Timken has developed modified ISO 355 bearing designs to meet specific application requirements. These bearings have a modified external configuration or internal geometry.

### Flanged IsoClass Bearings

A variation on standard IsoClass bearings, the flanged outer race facilitates axial location and accurately aligned seats in a through-bored housing.

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Original ISO/R 355 Part Numbering System

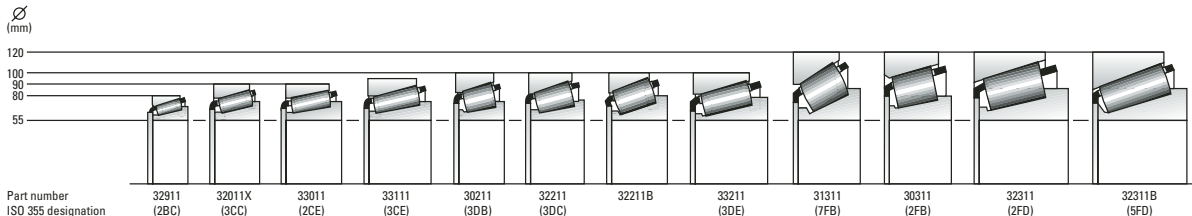


## ISO STANDARDS

The ISO 355 international metric standard defines dimensions and cup angles for single-row tapered roller bearings. Originally intended to replace the ISO/R 355 standard, the new ISO 355 standard defined additional bearings and created new designation codes for the entire dimensional spectrum of ISO 355 metric bearings.

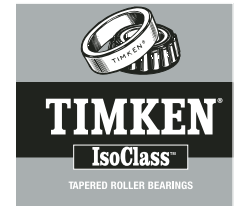
Because new designation codes would have incurred expense for many manufacturers and users, the market retained the designation codes for bearings that were in accordance with both the old and new standards.

Comparison of ISO bearing designs (55 mm bore diameter)



ISOCCLASS BEARINGS

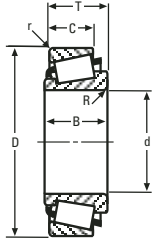
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X30203	Y30203	17.000 0.6693	40.000 1.5748	13.250 0.5217	12.000 0.4724	11.000 0.4331	1.0 0.04	1.0 0.04	0.08 kg 0.18 lb
X30204	Y30204	20.000 0.7874	47.000 1.8504	15.250 0.6004	14.000 0.5512	12.000 0.4724	1.0 0.04	1.0 0.04	0.13 kg 0.28 lb
X30204	Y30204Z	20.000 0.7874	47.000 1.8504	15.250 0.6004	14.000 0.5512	12.000 0.4724	1.0 0.04	1.0 0.04	0.13 kg 0.28 lb
X30204M	Y30204M	20.000 0.7874	47.000 1.8504	15.250 0.6004	14.000 0.5512	12.000 0.4724	1.0 0.04	1.0 0.04	0.13 kg 0.28 lb
X30205	Y30205	25.000 0.9843	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	1.0 0.04	1.0 0.04	0.15 kg 0.33 lb
X30205	YAA30205	25.000 0.9843	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	1.0 0.04	1.5 0.06	0.15 kg 0.33 lb
X30205M	Y30205M	25.000 0.9843	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	1.0 0.04	1.0 0.04	0.15 kg 0.33 lb
XAA30205	Y30205	25.000 0.9843	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	4.0 0.16	1.0 0.04	0.15 kg 0.33 lb
XAA30205	YAA30205	25.000 0.9843	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	4.0 0.16	1.5 0.06	0.15 kg 0.33 lb
X30206	Y30206	30.000 1.1811	62.000 2.4409	17.250 0.6791	16.000 0.6299	14.000 0.5512	1.0 0.04	1.0 0.04	0.23 kg 0.51 lb
X30206M	Y30206M	30.000 1.1811	62.000 2.4409	17.250 0.6791	16.000 0.6299	14.000 0.5512	1.0 0.04	1.0 0.04	0.24 kg 0.53 lb
X30207	Y30207	35.000 1.3780	72.000 2.8346	18.250 0.7185	17.000 0.6693	15.000 0.5906	1.5 0.06	1.5 0.06	0.33 kg 0.72 lb
X30207M	Y30207M	35.000 1.3780	72.000 2.8346	18.250 0.7185	17.000 0.6693	15.000 0.5906	1.5 0.06	1.5 0.06	0.34 kg 0.75 lb
X30208	Y30208	40.000 1.5748	80.000 3.1496	19.750 0.7776	18.000 0.7087	16.000 0.6299	1.5 0.06	1.5 0.06	0.43 kg 0.95 lb
X30208M	Y30208M	40.000 1.5748	80.000 3.1496	19.750 0.7776	18.000 0.7087	16.000 0.6299	1.5 0.06	1.5 0.06	0.43 kg 0.95 lb
X30209	Y30209	45.000 1.7717	85.000 3.3465	20.750 0.8169	19.000 0.7480	16.000 0.6299	1.5 0.06	1.5 0.06	0.49 kg 1.07 lb
X30209M	Y30209M	45.000 1.7717	85.000 3.3465	20.750 0.8169	19.000 0.7480	16.000 0.6299	1.5 0.06	1.5 0.06	0.46 kg 1.01 lb
X30210	Y30210	50.000 1.9685	90.000 3.5433	21.750 0.8563	20.000 0.7874	17.000 0.6693	1.5 0.06	1.5 0.06	0.55 kg 1.21 lb
X30210M	Y30210M	50.000 1.9685	90.000 3.5433	21.750 0.8563	20.000 0.7874	17.000 0.6693	1.5 0.06	1.5 0.06	0.55 kg 1.22 lb
X30210M	*Y30210RM	50.000 1.9685	90.000 3.5433	8.750 0.3445	20.000 0.7874	17.000 0.6693	1.5 0.06	1.5 0.06	0.54 kg 1.19 lb
XGA30210	Y30210	52.000 2.0472	90.000 3.5433	21.750 0.8563	20.000 0.7874	17.000 0.6693	4.0 0.16	1.5 0.06	0.52 kg 1.15 lb
X30211	Y30211	55.000 2.1654	100.000 3.9370	22.750 0.8957	21.000 0.8268	18.000 0.7087	2.0 0.08	1.5 0.06	0.72 kg 1.58 lb
X30211M	Y30211M	55.000 2.1654	100.000 3.9370	22.750 0.8957	21.000 0.8268	18.000 0.7087	2.0 0.08	1.5 0.06	0.73 kg 1.62 lb
X30212	Y30212	60.000 2.3622	110.000 4.3307	23.750 0.9350	22.000 0.8661	19.000 0.7480	2.0 0.08	1.5 0.06	0.89 kg 1.97 lb
X30212M	Y30212M	60.000 2.3622	110.000 4.3307	23.750 0.9350	22.000 0.8661	19.000 0.7480	2.0 0.08	1.5 0.06	0.89 kg 1.97 lb
X30213	Y30213	65.000 2.5591	120.000 4.7244	24.750 0.9744	23.000 0.9055	20.000 0.7874	2.0 0.08	1.5 0.06	1.15 kg 2.52 lb
X30213M	Y30213M	65.000 2.5591	120.000 4.7244	24.750 0.9744	23.000 0.9055	20.000 0.7874	2.0 0.08	1.5 0.06	1.16 kg 2.56 lb
X30214	Y30214	70.000 2.7559	125.000 4.9213	26.250 1.0335	24.000 0.9449	21.000 0.8268	2.0 0.08	1.5 0.06	1.26 kg 2.79 lb
X30214M	Y30214M	70.000 2.7559	125.000 4.9213	26.250 1.0335	24.000 0.9449	21.000 0.8268	2.0 0.08	1.5 0.06	1.30 kg 2.87 lb
X30215	Y30215	75.000 2.9528	130.000 5.1181	27.250 1.0728	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	1.35 kg 2.97 lb
X30215M	Y30215M	75.000 2.9528	130.000 5.1181	27.250 1.0728	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	1.40 kg 3.09 lb
X30216	Y30216	80.000 3.1496	140.000 5.5118	28.250 1.1122	26.000 1.0236	22.000 0.8661	2.5 0.10	2.0 0.08	1.63 kg 3.59 lb
X30216M	Y30216M	80.000 3.1496	140.000 5.5118	28.250 1.1122	26.000 1.0236	22.000 0.8661	2.5 0.10	2.0 0.08	1.67 kg 3.67 lb
X30216	YFA30216	80.000 3.1496	141.000 5.5512	28.250 1.1122	26.000 1.0236	22.000 0.8661	2.5 0.1	2.0 0.08	1.66 kg 3.67 lb
X30216	YHA30216	80.000 3.1496	150.000 5.9055	30.550 1.2028	26.000 1.0236	24.300 0.9567	2.5 0.1	0.8 0.03	2.14 kg 4.72 lb



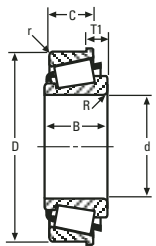
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\* Flanged cup, Bearing width is T1 Dimension

# ISOCCLASS BEARINGS



**SINGLE ROW**



**SINGLE ROW WITH FLANGE**

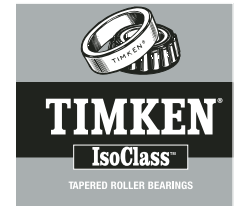
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
XUA30216	Y30216	70.000 2.7559	140.000 5.5118	28.250 1.1122	30.500 1.2028	22.000 0.8661	2.5 0.1	2.0 0.08	2.01 kg 4.44 lb
XUA30216	YFA30216	70.000 2.7559	141.000 5.5512	28.250 1.1122	30.500 1.2028	22.000 0.8661	2.5 0.1	2.0 0.08	2.05 kg 4.52 lb
XUA30216	YHA30216	70.000 2.7559	150.000 5.9055	30.550 1.2028	30.600 1.2047	24.300 0.9567	2.5 0.10	0.8 0.03	2.53 kg 5.57 lb
XUB30216	Y30216	80.000 3.1496	140.000 5.5118	30.250 1.1909	28.000 1.1024	22.000 0.8661	0.5 0.02	2.0 0.08	1.77 kg 3.90 lb
XUB30216	YFA30216	80.000 3.1496	141.000 5.5512	30.250 1.1909	28.000 1.1024	22.000 0.8661	0.5 0.02	2.0 0.08	1.81 kg 3.98 lb
XUB30216	YHA30216	80.000 3.1496	150.000 5.9055	32.550 1.2816	28.000 1.1024	24.300 0.9567	0.5 0.02	0.8 0.03	2.28 kg 5.03 lb
X30217	Y30217	85.000 3.3465	150.000 5.9055	30.500 1.2008	28.000 1.1024	24.000 0.9449	2.5 0.10	2.0 0.08	2.10 kg 4.63 lb
X30217M	Y30217M	85.000 3.3465	150.000 5.9055	30.500 1.2008	28.000 1.1024	24.000 0.9449	2.5 0.10	2.0 0.08	2.06 kg 4.54 lb
X30218	Y30218	90.000 3.5433	160.000 6.2992	32.500 1.2795	30.000 1.1811	26.000 1.0236	2.5 0.10	2.0 0.08	2.56 kg 5.65 lb
X30218M	Y30218M	90.000 3.5433	160.000 6.2992	32.500 1.2795	30.000 1.1811	26.000 1.0236	2.5 0.10	2.0 0.08	2.62 kg 5.78 lb
X30219	Y30219	95.000 3.7402	170.000 6.6929	34.500 1.3583	32.000 1.2598	27.000 1.0630	3.0 0.12	2.5 0.10	3.05 kg 6.73 lb
X30219M	Y30219M	95.000 3.7402	170.000 6.6929	34.500 1.3583	32.000 1.2598	27.000 1.0630	3.0 0.12	2.5 0.10	3.14 kg 6.92 lb
X30220	Y30220	100.000 3.9370	180.000 7.0866	37.000 1.4567	34.000 1.3386	29.000 1.1417	3.0 0.12	2.5 0.10	3.86 kg 8.50 lb
X30220M	Y30220M	100.000 3.9370	180.000 7.0866	37.000 1.4567	34.000 1.3386	29.000 1.1417	3.0 0.12	2.5 0.10	3.76 kg 8.30 lb
X30221	Y30221	105.000 4.1339	190.000 7.4803	39.000 1.5354	36.000 1.4173	30.000 1.1811	3.0 0.12	2.5 0.10	4.50 kg 9.93 lb
X30221M	Y30221M	105.000 4.1339	190.000 7.4803	39.000 1.5354	36.000 1.4173	30.000 1.1811	3.0 0.12	2.5 0.10	4.49 kg 9.90 lb
X30222	Y30222	110.000 4.3307	200.000 7.8740	41.000 1.6142	38.000 1.4961	32.000 1.2598	3.0 0.12	2.5 0.10	5.19 kg 11.43 lb
X30222M	Y30222M	110.000 4.3307	200.000 7.8740	41.000 1.6142	38.000 1.4961	32.000 1.2598	3.0 0.12	2.5 0.10	5.23 kg 11.54 lb
X30224M	Y30224M	120.000 4.7244	215.000 8.4646	43.500 1.7126	40.000 1.5748	34.000 1.3386	3.0 0.12	2.5 0.10	6.23 kg 13.73 lb
X30226M	Y30226M	130.000 5.1181	230.000 9.0551	43.750 1.7224	40.000 1.5748	34.000 1.3386	4.0 0.16	3.0 0.12	7.05 kg 15.55 lb
X30228	Y30228	140.000 5.5118	250.000 9.8425	45.750 1.8012	42.000 1.6535	36.000 1.4173	4.1 0.16	3.0 0.12	9.02 kg 19.89 lb
X30228M	Y30228M	140.000 5.5118	250.000 9.8425	45.750 1.8012	42.000 1.6535	36.000 1.4173	4.0 0.16	3.0 0.12	8.92 kg 19.66 lb
X30230M	Y30230M	150.000 5.9055	270.000 10.6299	49.000 1.9291	45.000 1.7717	38.000 1.4961	4.0 0.16	3.0 0.12	11.08 kg 24.42 lb
X30302	Y30302	15.000 0.5906	42.000 1.6535	14.250 0.5610	13.000 0.5118	11.000 0.4331	1.0 0.04	1.0 0.04	0.10 kg 0.22 lb
X30303	Y30303	17.000 0.6693	47.000 1.8504	15.250 0.6004	14.000 0.5512	12.000 0.4724	1.0 0.04	1.0 0.04	0.13 kg 0.29 lb
X30304	Y30304	20.000 0.7874	52.000 2.0472	16.250 0.6398	15.000 0.5906	13.000 0.5118	1.5 0.06	1.5 0.06	0.18 kg 0.39 lb
X30305	Y30305	25.000 0.9843	62.000 2.4409	18.250 0.7185	17.000 0.6693	15.000 0.5906	1.5 0.06	1.5 0.06	0.27 kg 0.60 lb
X30305M	Y30305M	25.000 0.9843	62.000 2.4409	18.250 0.7185	17.000 0.6693	15.000 0.5906	1.5 0.06	1.5 0.06	0.26 kg 0.57 lb
X30306	Y30306	30.000 1.1811	72.000 2.8346	20.750 0.8169	19.000 0.7480	16.000 0.6299	1.5 0.06	1.5 0.06	0.40 kg 0.88 lb
X30306M	Y30306M	30.000 1.1811	72.000 2.8346	20.750 0.8169	19.000 0.7480	16.000 0.6299	1.5 0.06	1.5 0.06	0.38 kg 0.84 lb
X30307	Y30307	35.000 1.3780	80.000 3.1496	22.750 0.8957	21.000 0.8268	18.000 0.7087	2.0 0.08	1.5 0.06	0.54 kg 1.18 lb
X30307M	Y30307M	35.000 1.3780	80.000 3.1496	22.750 0.8957	21.000 0.8268	18.000 0.7087	2.0 0.08	1.5 0.06	0.53 kg 1.16 lb
X30308	Y30308	40.000 1.5748	90.000 3.5433	25.250 0.9941	23.000 0.9055	20.000 0.7874	2.0 0.08	1.5 0.06	0.74 kg 1.63 lb
X30308M	Y30308M	40.000 1.5748	90.000 3.5433	25.250 0.9941	23.000 0.9055	20.000 0.7874	2.0 0.08	1.5 0.06	0.74 kg 1.62 lb

\* Flanged cup, Bearing width is T1 Dimension

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ISOCCLASS BEARINGS

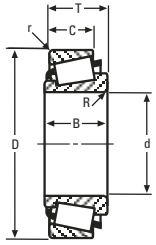
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X30308M	*Y30308RM	40.000 1.5748	90.000 3.5433	10.250 0.4035	23.000 0.9055	20.000 0.7874	2.0 0.08	1.5 0.06	0.75 kg 1.65 lb
X30309	Y30309	45.000 1.7717	100.000 3.9370	27.250 1.0728	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	1.00 kg 2.21 lb
X30309M	Y30309M	45.000 1.7717	100.000 3.9370	27.250 1.0728	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	0.99 kg 2.19 lb
X30309M	*Y30309RM	45.000 1.7717	100.000 3.9370	10.250 0.4035	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	0.97 kg 2.14 lb
XFA30309M	Y30309M	47.500 1.8701	100.000 3.9370	27.250 1.0728	25.000 0.9843	22.000 0.8661	2.0 0.08	1.5 0.06	0.95 kg 2.09 lb
X30310	Y30310	50.000 1.9685	110.000 4.3307	29.250 1.1516	27.000 1.0630	23.000 0.9055	2.5 0.10	2.0 0.08	1.27 kg 2.80 lb
X30310M	Y30310M	50.000 1.9685	110.000 4.3307	29.250 1.1516	27.000 1.0630	23.000 0.9055	2.5 0.10	2.0 0.08	1.25 kg 2.76 lb
X30310M	*Y30310RM	50.000 1.9685	110.000 4.3307	11.250 0.4429	27.000 1.0630	23.000 0.9055	2.5 0.10	2.0 0.08	1.25 kg 2.76 lb
X30311	Y30311	55.000 2.1654	120.000 4.7244	31.500 1.2402	29.000 1.1417	25.000 0.9843	2.5 0.10	2.0 0.08	1.62 kg 3.56 lb
X30312	Y30312	60.000 2.3622	130.000 5.1181	33.500 1.3189	31.000 1.2205	26.000 1.0236	3.0 0.12	2.5 0.10	1.96 kg 4.32 lb
X30312M	Y30312M	60.000 2.3622	130.000 5.1181	33.500 1.3189	31.000 1.2205	26.000 1.0236	3.0 0.12	2.5 0.10	1.95 kg 4.30 lb
X30313	Y30313	65.000 2.5591	140.000 5.5118	36.000 1.4173	33.000 1.2992	28.000 1.1024	3.0 0.12	2.5 0.10	2.49 kg 5.50 lb
X30314	Y30314	70.000 2.7559	150.000 5.9055	38.000 1.4961	35.000 1.3780	30.000 1.1811	3.0 0.12	2.5 0.10	3.01 kg 6.64 lb
X30315	Y30315	75.000 2.9528	160.000 6.2992	40.000 1.5748	37.000 1.4567	31.000 1.2205	3.0 0.12	2.5 0.1	3.69 kg 8.15 lb
X30315M	Y30315M	75.000 2.9528	160.000 6.2992	40.000 1.5748	37.000 1.4567	31.000 1.2205	3.0 0.12	2.5 0.10	3.60 kg 7.94 lb
X30316	Y30316	80.000 3.1496	170.000 6.6929	42.500 1.6732	39.000 1.5354	33.000 1.2992	3.0 0.12	2.5 0.10	4.10 kg 9.04 lb
X30316M	Y30316M	80.000 3.1496	170.000 6.6929	42.500 1.6732	39.000 1.5354	33.000 1.2992	3.0 0.12	2.5 0.10	4.33 kg 9.54 lb
X30317M	Y30317M	85.000 3.3465	180.000 7.0866	44.500 1.7520	41.000 1.6142	34.000 1.3386	4.0 0.16	3.0 0.12	4.78 kg 10.55 lb
X31307	Y31307	35.000 1.3780	80.000 3.1496	22.750 0.8957	21.000 0.8268	15.000 0.5906	2.0 0.08	1.5 0.06	0.52 kg 1.15 lb
X31308	Y31308	40.000 1.5748	90.000 3.5433	25.250 0.9941	23.000 0.9055	17.000 0.6693	2.0 0.08	1.5 0.06	0.73 kg 1.61 lb
X31309M	Y31309M	45.000 1.7717	100.000 3.9370	27.250 1.0728	25.000 0.9843	18.000 0.7087	2.0 0.08	1.5 0.06	0.94 kg 2.08 lb
X31310M	Y31310M	50.000 1.9685	110.000 4.3307	29.250 1.1516	27.000 1.0630	19.000 0.7480	2.5 0.10	2.0 0.08	1.21 kg 2.66 lb
X31311M	Y31311M	55.000 2.1654	120.000 4.7244	31.500 1.2402	29.000 1.1417	21.000 0.8268	2.5 0.10	2.0 0.08	1.55 kg 3.42 lb
X31312M	Y31312M	60.000 2.3622	130.000 5.1181	33.500 1.3189	31.000 1.2205	22.000 0.8661	3.0 0.12	2.5 0.10	1.96 kg 4.32 lb
X31313M	Y31313M	65.000 2.5591	140.000 5.5118	36.000 1.4173	33.000 1.2992	23.000 0.9055	3.0 0.12	2.5 0.10	2.41 kg 5.32 lb
X31314	Y31314	70.000 2.7559	150.000 5.9055	38.000 1.4961	35.000 1.3780	25.000 0.9843	3.0 0.12	2.5 0.1	2.92 kg 6.44 lb
X31314M	Y31314M	70.000 2.7559	150.000 5.9055	38.000 1.4961	35.000 1.3780	25.000 0.9843	3.0 0.12	2.5 0.10	2.93 kg 6.47 lb
X31315M	Y31315M	75.000 2.9528	160.000 6.2992	40.000 1.5748	37.000 1.4567	26.000 1.0236	3.0 0.12	2.5 0.10	3.46 kg 7.64 lb
X31318M	Y31318M	90.000 3.5433	190.000 7.4803	46.500 1.8307	43.000 1.6929	30.000 1.1811	4.0 0.16	3.0 0.12	5.54 kg 12.22 lb
X32004X	Y32004X	20.000 0.7874	42.000 1.6535	15.000 0.5906	15.000 0.5906	12.000 0.4724	0.6 0.02	0.6 0.02	0.10 kg 0.21 lb
X32004X	YAA32004X	20.000 0.7874	42.000 1.6535	15.000 0.5906	15.000 0.5906	12.000 0.4724	0.6 0.02	1.0 0.04	0.10 kg 0.21 lb
XAA32004X	Y32004X	20.000 0.7874	42.000 1.6535	15.000 0.5906	15.000 0.5906	12.000 0.4724	2.0 0.08	0.6 0.02	0.10 kg 0.21 lb
XAA32004X	YAA32004X	20.000 0.7874	42.000 1.6535	15.000 0.5906	15.000 0.5906	12.000 0.4724	2.0 0.08	1.0 0.04	0.10 kg 0.21 lb



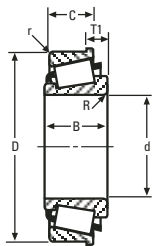
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\* Flanged cup, Bearing width is T1 Dimension

# ISOCCLASS BEARINGS



**SINGLE ROW**



**SINGLE ROW WITH FLANGE**

CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X32005X	Y32005X	25.000 0.9843	47.000 1.8504	15.000 0.5906	15.000 0.5906	11.500 0.4528	0.6 0.02	0.6 0.02	0.11 kg 0.25 lb
X32005X	YAA32005X	25.000 0.9843	47.000 1.8504	15.000 0.5906	15.000 0.5906	11.500 0.4528	0.6 0.02	1.0 0.04	0.11 kg 0.25 lb
XAA32005X	Y32005X	25.000 0.9843	47.000 1.8504	15.000 0.5906	15.000 0.5906	11.500 0.4528	3.3 0.13	0.6 0.02	0.11 kg 0.25 lb
XAA32005X	YAA32005X	25.000 0.9843	47.000 1.8504	15.000 0.5906	15.000 0.5906	11.500 0.4528	3.3 0.13	1.0 0.04	0.11 kg 0.25 lb
X32006X	Y32006X	30.000 1.1811	55.000 2.1654	17.000 0.6693	17.000 0.6693	13.000 0.5118	1.0 0.04	1.0 0.04	0.17 kg 0.38 lb
X32006X	YGA32006X	30.000 1.1811	62.000 2.4409	17.000 0.6693	17.000 0.6693	13.000 0.5118	1.0 0.04	1.0 0.04	0.24 kg 0.53 lb
X32007X	Y32007X	35.000 1.3780	62.000 2.4409	18.000 0.7087	18.000 0.7087	14.000 0.5512	1.0 0.04	1.0 0.04	0.23 kg 0.50 lb
X32008X	Y32008X	40.000 1.5748	68.000 2.6772	19.000 0.7480	19.000 0.7480	14.500 0.5709	1.0 0.04	1.0 0.04	0.27 kg 0.61 lb
X32008X	Y32008XZ	40.000 1.5748	68.000 2.6772	19.000 0.7480	19.000 0.7480	14.500 0.5709	1.0 0.04	1.0 0.04	0.27 kg 0.61 lb
X32008XM	Y32008XM	40.000 1.5748	68.000 2.6772	19.000 0.7480	19.000 0.7480	14.500 0.5709	1.0 0.04	1.0 0.04	0.27 kg 0.60 lb
XAA32008X	Y32008X	40.000 1.5748	68.000 2.6772	19.000 0.7480	19.000 0.7480	14.500 0.5709	3.5 0.14	1.0 0.04	0.27 kg 0.61 lb
XAA32008X	Y32008XZ	40.000 1.5748	68.000 2.6772	19.000 0.7480	19.000 0.7480	14.500 0.5709	3.6 0.14	1.0 0.04	0.27 kg 0.61 lb
XKA32008XF	Y32008X	41.000 1.6142	68.000 2.6772	19.000 0.7480	21.000 0.8268	14.500 0.5709	2.0 0.08	1.0 0.04	0.27 kg 0.61 lb
XKA32008XF	Y32008XZ	41.000 1.6142	68.000 2.6772	19.000 0.7480	21.000 0.8268	14.500 0.5709	2.0 0.08	1.0 0.04	0.27 kg 0.60 lb
X32009X	Y32009X	45.000 1.7717	75.000 2.9528	20.000 0.7874	20.000 0.7874	15.500 0.6102	1.0 0.04	1.0 0.04	0.35 kg 0.76 lb
X32009X	*Y32009XR	45.000 1.7717	75.000 2.9528	8.000 0.3150	20.000 0.7874	15.500 0.6102	1.0 0.04	1.0 0.04	0.36 kg 0.79 lb
X32009XM	Y32009XM	45.000 1.7717	75.000 2.9528	20.000 0.7874	20.000 0.7874	15.500 0.6102	1.0 0.04	1.0 0.04	0.33 kg 0.73 lb
XAA32009X	Y32009X	45.000 1.7717	75.000 2.9528	20.000 0.7874	20.000 0.7874	15.500 0.6102	3.0 0.12	1.0 0.04	0.35 kg 0.76 lb
XAA32009X	*Y32009XR	45.000 1.7717	75.000 2.9528	8.000 0.3150	20.000 0.7874	15.500 0.6102	3.0 0.12	1.0 0.04	0.36 kg 0.79 lb
XAB32009X	Y32009X	45.000 1.7717	75.000 2.9528	20.000 0.7874	20.000 0.7874	15.500 0.6102	0.0 0.00	1.0 0.04	0.34 kg 0.76 lb
XAB32009X	*Y32009XR	45.000 1.7717	75.000 2.9528	8.000 0.3150	20.000 0.7874	15.500 0.6102	0.0 0.00	1.0 0.04	0.36 kg 0.79 lb
X32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	1.0 0.04	1.0 0.04	0.37 kg 0.82 lb
X32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	1.0 0.04	1.3 0.05	0.49 kg 1.08 lb
X32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	1.0 0.04	0.5 0.02	0.42 kg 0.94 lb
XAA32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	2.3 0.09	1.0 0.04	0.57 kg 1.25 lb
XAA32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	2.3 0.09	1.3 0.05	0.49 kg 1.08 lb
XAA32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	2.3 0.09	0.5 0.02	0.42 kg 0.94 lb
XAB32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	3.0 0.12	1.0 0.04	0.37 kg 0.82 lb
XAB32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	3.0 0.12	1.3 0.05	0.49 kg 1.08 lb
XAB32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	3.0 0.12	0.5 0.02	0.42 kg 0.94 lb
XAC32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	0.5 0.02	1.0 0.04	0.37 kg 0.82 lb
XAC32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	0.5 0.02	1.3 0.05	0.46 kg 1.01 lb
XAC32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	0.5 0.02	0.5 0.02	0.40 kg 0.88 lb
XAD32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	1.5 0.06	1.0 0.04	0.37 kg 0.82 lb
XAD32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	1.5 0.06	1.3 0.05	0.49 kg 1.08 lb

\* Flanged cup, Bearing width is T1 Dimension

ISOCCLASS BEARINGS

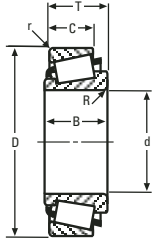
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
XAD32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	1.5 0.06	0.5 0.02	0.42 kg 0.94 lb
XAE32010X	Y32010X	50.000 1.9685	80.000 3.1496	20.000 0.7874	20.000 0.7874	15.500 0.6102	0.3 0.01	1.0 0.04	0.37 kg 0.82 lb
XAE32010X	YKA32010X	50.000 1.9685	82.000 3.2283	26.000 1.0236	20.000 0.7874	21.500 0.8465	0.3 0.01	1.3 0.05	0.49 kg 1.08 lb
XAE32010X	YKB32010X	50.000 1.9685	82.000 3.2283	21.500 0.8465	20.000 0.7874	17.000 0.6693	0.3 0.01	0.5 0.02	0.42 kg 0.94 lb
X32011X	Y32011X	55.000 2.1654	90.000 3.5433	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.57 kg 1.25 lb
X32011XM	Y32011XM	55.000 2.1654	90.000 3.5433	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.57 kg 1.26 lb
X32012X	Y32012X	60.000 2.3622	95.000 3.7402	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.60 kg 1.32 lb
X32012XM	Y32012XM	60.000 2.3622	95.000 3.7402	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.59 kg 1.30 lb
X32013X	Y32013X	65.000 2.5591	100.000 3.9370	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.64 kg 1.41 lb
X32013XM	Y32013XM	65.000 2.5591	100.000 3.9370	23.000 0.9055	23.000 0.9055	17.500 0.6890	1.5 0.06	1.5 0.06	0.63 kg 1.39 lb
XAA32013X	Y32013X	65.000 2.5591	100.000 3.9370	23.000 0.9055	23.000 0.9055	17.500 0.6890	5.0 0.20	1.5 0.06	0.64 kg 1.41 lb
X32014X	Y32014X	70.000 2.7559	110.000 4.3307	25.000 0.9843	25.000 0.9843	19.000 0.7480	1.5 0.06	1.5 0.06	0.87 kg 1.92 lb
X32014XM	Y32014XM	70.000 2.7559	110.000 4.3307	25.000 0.9843	25.000 0.9843	19.000 0.7480	1.5 0.06	1.5 0.06	0.84 kg 1.85 lb
X32015X	Y32015X	75.000 2.9528	115.000 4.5276	25.000 0.9843	25.000 0.9843	19.000 0.7480	1.5 0.06	1.5 0.06	0.92 kg 2.03 lb
X32015XM	Y32015XM	75.000 2.9528	115.000 4.5276	25.000 0.9843	25.000 0.9843	19.000 0.7480	1.5 0.06	1.5 0.06	0.90 kg 1.98 lb
X32016X	Y32016X	80.000 3.1496	125.000 4.9213	29.000 1.1417	29.000 1.1417	22.000 0.8661	1.5 0.06	1.5 0.06	1.28 kg 2.82 lb
X32016XM	Y32016XM	80.000 3.1496	125.000 4.9213	29.000 1.1417	29.000 1.1417	22.000 0.8661	1.5 0.06	1.5 0.06	1.30 kg 2.87 lb
X32017X	Y32017X	85.000 3.3465	130.000 5.1181	29.000 1.1417	29.000 1.1417	22.000 0.8661	1.5 0.06	1.5 0.06	1.35 kg 2.98 lb
X32017XM	Y32017XM	85.000 3.3465	130.000 5.1181	29.000 1.1417	29.000 1.1417	22.000 0.8661	1.5 0.06	1.5 0.06	1.35 kg 2.98 lb
XAA32017X	Y32017X	85.000 3.3465	130.000 5.1181	29.000 1.1417	29.000 1.1417	22.000 0.8661	6.5 0.26	1.5 0.06	1.33 kg 2.94 lb
X32018X	Y32018X	90.000 3.5433	140.000 5.5118	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.73 kg 3.81 lb
X32018XM	Y32018XM	90.000 3.5433	140.000 5.5118	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.75 kg 3.86 lb
XAA32018X	Y32018X	90.000 3.5433	140.000 5.5118	32.000 1.2598	32.000 1.2598	24.000 0.9449	6.0 0.24	1.5 0.06	1.73 kg 3.81 lb
XUA32018X	Y32018X	84.000 3.3071	140.000 5.5118	32.000 1.2598	32.000 1.2598	24.000 0.9449	0.5 0.02	1.5 0.06	1.98 kg 4.36 lb
X32019X	Y32019X	95.000 3.7402	145.000 5.7087	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.80 kg 3.98 lb
X32019XM	Y32019XM	95.000 3.7402	145.000 5.7087	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.80 kg 3.97 lb
X32020X	Y32020X	100.000 3.9370	150.000 5.9055	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.90 kg 4.18 lb
X32020XM	Y32020XM	100.000 3.9370	150.000 5.9055	32.000 1.2598	32.000 1.2598	24.000 0.9449	2.0 0.08	1.5 0.06	1.90 kg 4.19 lb
XAA32020X	Y32020X	100.000 3.9370	150.000 5.9055	32.000 1.2598	32.000 1.2598	24.000 0.9449	6.5 0.26	1.5 0.06	1.90 kg 4.18 lb
X32021X	Y32021X	105.000 4.1339	160.000 6.2992	35.000 1.3780	35.000 1.3780	26.000 1.0236	2.5 0.10	2.0 0.08	2.40 kg 5.30 lb
X32021XM	Y32021XM	105.000 4.1339	160.000 6.2992	35.000 1.3780	35.000 1.3780	26.000 1.0236	2.5 0.10	2.0 0.08	2.40 kg 5.29 lb
XGA32021X	Y32021X	106.000 4.1732	160.000 6.2992	35.000 1.3780	35.000 1.3780	26.000 1.0236	6.0 0.24	2.0 0.08	2.36 kg 5.20 lb
X32022X	Y32022X	110.000 4.3307	170.000 6.6929	38.000 1.4961	38.000 1.4961	29.000 1.1417	2.5 0.10	2.0 0.08	3.09 kg 6.82 lb
X32022XM	Y32022XM	110.000 4.3307	170.000 6.6929	38.000 1.4961	38.000 1.4961	29.000 1.1417	2.5 0.10	2.0 0.08	3.05 kg 6.72 lb
X32024X	Y32024X	120.000 4.7244	180.000 7.0866	38.000 1.4961	38.000 1.4961	29.000 1.1417	2.5 0.10	2.0 0.08	3.32 kg 7.31 lb



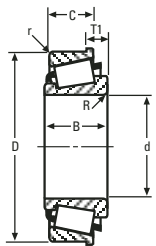
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\* Flanged cup, Bearing width is T1 Dimension

# ISOCCLASS BEARINGS



**SINGLE ROW**



**SINGLE ROW WITH FLANGE**

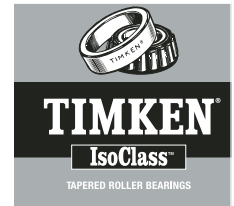
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X32024XM	Y32024XM	120.000 4.7244	180.000 7.0866	38.000 1.4961	38.000 1.4961	29.000 1.1417	2.5 0.10	2.0 0.08	3.27 kg 7.22 lb
XAA32024X	Y32024X	120.000 4.7244	180.000 7.0866	38.000 1.4961	38.000 1.4961	29.000 1.1417	5.0 0.20	2.0 0.08	3.25 kg 7.17 lb
X32026X	Y32026X	130.000 5.1181	200.000 7.8740	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	5.06 kg 11.15 lb
X32026XM	Y32026XM	130.000 5.1181	200.000 7.8740	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	4.96 kg 10.93 lb
X32028X	Y32028X	140.000 5.5118	210.000 8.2677	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	5.31 kg 11.71 lb
X32028XM	Y32028XM	140.000 5.5118	210.000 8.2677	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	5.24 kg 11.55 lb
X32030X	Y32030X	150.000 5.9055	225.000 8.8583	48.000 1.8898	48.000 1.8898	36.000 1.4173	3.0 0.12	2.5 0.10	6.28 kg 13.85 lb
X32030XM	Y32030XM	150.000 5.9055	225.000 8.8583	48.000 1.8898	48.000 1.8898	36.000 1.4173	3.0 0.12	2.5 0.10	6.38 kg 14.07 lb
X32032XM	Y32032XM	160.000 6.2992	240.000 9.4488	51.000 2.0079	51.000 2.0079	38.000 1.4961	3.0 0.12	2.5 0.10	7.90 kg 17.42 lb
X32034XM	Y32034XM	170.000 6.6929	260.000 10.2362	57.000 2.2441	57.000 2.2441	43.000 1.6929	3.0 0.12	2.5 0.10	10.57 kg 23.31 lb
X32036XM	Y32036XM	180.000 7.0866	280.000 11.0236	64.000 2.5197	64.000 2.5197	48.000 1.8898	3.0 0.12	2.5 0.10	13.94 kg 30.73 lb
X32038XM	Y32038XM	190.000 7.4803	290.000 11.4173	64.000 2.5197	64.000 2.5197	48.000 1.8898	3.0 0.12	2.5 0.10	14.81 kg 32.65 lb
X32040X	Y32040X	200.000 7.8740	310.000 12.2047	70.000 2.7559	70.000 2.7559	53.000 2.0866	3.0 0.12	2.5 0.10	19.50 kg 42.99 lb
X32044X	Y32044X	220.000 8.6614	340.000 13.3858	76.000 2.9921	76.000 2.9921	57.000 2.2441	4.0 0.16	3.0 0.12	25.50 kg 56.22 lb
X32048X	Y32048X	240.000 9.4488	360.000 14.1732	76.000 2.9921	76.000 2.9921	57.000 2.2441	4.0 0.16	3.0 0.12	26.50 kg 58.42 lb
X32048XR	Y32048XR	240.000 9.4488	360.000 14.1732	76.000 2.9921	76.000 2.9921	76.000 2.9921	4.0 0.16	3.0 0.12	25.70 kg 56.66 lb
X32048XRA	Y32048XRA	240.000 9.4488	360.000 14.1732	76.000 2.9921	76.000 2.9921	76.000 2.9921	4.0 0.16	3.0 0.12	25.48 kg 56.16 lb
X32064X	Y32064X	320.000 12.5984	480.000 18.8976	100.000 3.9370	100.000 3.9370	74.000 2.9134	5.0 0.20	4.0 0.16	63.00 kg 138.89 lb
X32204	Y32204	20.000 0.7874	47.000 1.8504	19.250 0.7579	18.000 0.7087	15.000 0.5906	1.0 0.04	1.0 0.04	0.16 kg 0.36 lb
X32205	Y32205	25.000 0.9843	52.000 2.0472	19.250 0.7579	18.000 0.7087	15.000 0.5906	1.0 0.04	1.0 0.04	0.18 kg 0.39 lb
X32205B	Y32205B	25.000 0.9843	52.000 2.0472	19.250 0.7579	18.000 0.7087	15.000 0.5906	1.0 0.04	1.0 0.04	0.19 kg 0.42 lb
X32205B	YAA32205B	25.000 0.9843	52.000 2.0472	19.250 0.7579	18.000 0.7087	15.000 0.5906	1.0 0.04	2.0 0.08	0.19 kg 0.42 lb
X32206	Y32206	30.000 1.1811	62.000 2.4409	21.250 0.8366	20.000 0.7874	17.000 0.6693	1.0 0.04	1.0 0.04	0.29 kg 0.63 lb
X32206B	Y32206B	30.000 1.1811	62.000 2.4409	21.250 0.8366	20.000 0.7874	17.000 0.6693	1.0 0.04	1.0 0.04	0.30 kg 0.66 lb
X32206M	Y32206M	30.000 1.1811	62.000 2.4409	21.250 0.8366	20.000 0.7874	17.000 0.6693	1.0 0.04	1.0 0.04	0.28 kg 0.62 lb
X32207	Y32207	35.000 1.3780	72.000 2.8346	24.250 0.9547	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.44 kg 0.97 lb
X32207B	Y32207B	35.000 1.3780	72.000 2.8346	24.250 0.9547	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.46 kg 1.02 lb
X32207M	Y32207M	35.000 1.3780	72.000 2.8346	24.250 0.9547	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.43 kg 0.95 lb
X32208	Y32208	40.000 1.5748	80.000 3.1496	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.54 kg 1.18 lb
X32208M	Y32208M	40.000 1.5748	80.000 3.1496	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.52 kg 1.15 lb
X32209	Y32209	45.000 1.7717	85.000 3.3465	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.59 kg 1.29 lb
X32209M	Y32209M	45.000 1.7717	85.000 3.3465	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.60 kg 1.33 lb
X32210	Y32210	50.000 1.9685	90.000 3.5433	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.62 kg 1.37 lb
X32210M	Y32210M	50.000 1.9685	90.000 3.5433	24.750 0.9744	23.000 0.9055	19.000 0.7480	1.5 0.06	1.5 0.06	0.63 kg 1.40 lb

\* Flanged cup, Bearing width is T1 Dimension



ISOCCLASS BEARINGS

CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X32211	Y32211	55.000 2.1654	100.000 3.9370	26.750 1.0531	25.000 0.9843	21.000 0.8268	2.0 0.08	1.5 0.06	0.85 kg 1.87 lb
X32211M	Y32211M	55.000 2.1654	100.000 3.9370	26.750 1.0531	25.000 0.9843	21.000 0.8268	2.0 0.08	1.5 0.06	0.85 kg 1.87 lb
X32211M	*Y32211RM	55.000 2.1654	100.000 3.9370	10.750 0.4232	25.000 0.9843	21.000 0.8268	2.0 0.08	1.5 0.06	0.83 kg 1.83 lb
X32212	Y32212	60.000 2.3622	110.000 4.3307	29.750 1.1713	28.000 1.1024	24.000 0.9449	2.0 0.08	1.5 0.06	1.15 kg 2.54 lb
X32212M	Y32212M	60.000 2.3622	110.000 4.3307	29.750 1.1713	28.000 1.1024	24.000 0.9449	2.0 0.08	1.5 0.06	1.18 kg 2.60 lb
X32213	Y32213	65.000 2.5591	120.000 4.7244	32.750 1.2894	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.54 kg 3.39 lb
X32213	YAA32213	65.000 2.5591	120.000 4.7244	32.750 1.2894	31.000 1.2205	27.000 1.0630	2.0 0.08	0.8 0.03	1.54 kg 3.39 lb
X32213M	Y32213M	65.000 2.5591	120.000 4.7244	32.750 1.2894	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.54 kg 3.39 lb
XAA32213	Y32213	65.000 2.5591	120.000 4.7244	32.750 1.2894	31.000 1.2205	27.000 1.0630	2.5 0.10	1.5 0.06	1.54 kg 3.39 lb
XAA32213	YAA32213	65.000 2.5591	120.000 4.7244	32.750 1.2894	31.000 1.2205	27.000 1.0630	2.5 0.10	0.8 0.03	1.54 kg 3.39 lb
X32214	Y32214	70.000 2.7559	125.000 4.9213	33.250 1.3091	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.64 kg 3.61 lb
X32214M	Y32214M	70.000 2.7559	125.000 4.9213	33.250 1.3091	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.62 kg 3.58 lb
X32215	Y32215	75.000 2.9528	130.000 5.1181	33.250 1.3091	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.71 kg 3.76 lb
X32215	*YSA32215R	75.000 2.9528	130.000 5.1181	11.750 0.4626	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.77 kg 3.90 lb
X32215	*YSB32215R	75.000 2.9528	130.000 5.1181	12.250 0.4823	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.78 kg 3.92 lb
X32215M	Y32215M	75.000 2.9528	130.000 5.1181	33.250 1.3091	31.000 1.2205	27.000 1.0630	2.0 0.08	1.5 0.06	1.70 kg 3.75 lb
XFA32215	Y32215	60.000 2.3622	130.000 5.1181	33.250 1.3091	31.000 1.2205	27.000 1.0630	0.5 0.02	1.5 0.06	2.09 kg 4.62 lb
XFA32215	*YSA32215R	60.000 2.3622	130.000 5.1181	11.750 0.4626	31.000 1.2205	27.000 1.0630	0.5 0.02	1.5 0.06	2.16 kg 4.76 lb
XFA32215	*YSB32215R	60.000 2.3622	130.000 5.1181	12.250 0.4823	31.000 1.2205	27.000 1.0630	0.5 0.02	1.5 0.06	2.16 kg 4.77 lb
XUA32215	Y32215	75.000 2.9528	130.000 5.1181	47.250 1.8602	45.000 1.7717	27.000 1.0630	1.0 0.04	1.5 0.06	2.00 kg 4.41 lb
XUA32215	*YSA32215R	75.000 2.9528	130.000 5.1181	11.750 0.4626	45.000 1.7717	27.000 1.0630	0.5 0.02	1.5 0.06	2.06 kg 4.55 lb
XUA32215	*YSB32215R	75.000 2.9528	130.000 5.1181	26.250 1.0334	45.000 1.7717	27.000 1.0630	1.0 0.04	1.5 0.06	2.07 kg 4.56 lb
X32216	Y32216	80.000 3.1496	140.000 5.5118	35.250 1.3878	33.000 1.2992	28.000 1.1024	2.5 0.10	2.0 0.08	2.05 kg 4.51 lb
X32216M	Y32216M	80.000 3.1496	140.000 5.5118	35.250 1.3878	33.000 1.2992	28.000 1.1024	2.5 0.10	2.0 0.08	2.10 kg 4.63 lb
X32217	Y32217	85.000 3.3465	150.000 5.9055	38.500 1.5157	36.000 1.4173	30.000 1.1811	2.5 0.10	2.0 0.08	2.64 kg 5.83 lb
X32217M	Y32217M	85.000 3.3465	150.000 5.9055	38.500 1.5157	36.000 1.4173	30.000 1.1811	2.5 0.10	2.0 0.08	2.69 kg 5.93 lb
X32218	Y32218	90.000 3.5433	160.000 6.2992	42.500 1.6732	40.000 1.5748	34.000 1.3386	2.5 0.10	2.0 0.08	3.34 kg 7.37 lb
X32218M	Y32218M	90.000 3.5433	160.000 6.2992	42.500 1.6732	40.000 1.5748	34.000 1.3386	2.5 0.10	2.0 0.08	3.48 kg 7.68 lb
X32219	Y32219	95.000 3.7402	170.000 6.6929	45.500 1.7913	43.000 1.6929	37.000 1.4567	3.0 0.12	2.5 0.10	4.10 kg 9.03 lb
X32219M	Y32219M	95.000 3.7402	170.000 6.6929	45.500 1.7913	43.000 1.6929	37.000 1.4567	3.0 0.12	2.5 0.10	4.26 kg 9.39 lb
X32220	Y32220	100.000 3.9370	180.000 7.0866	49.000 1.9291	46.000 1.8110	39.000 1.5354	3.0 0.12	2.5 0.10	4.97 kg 10.96 lb
X32220M	Y32220M	100.000 3.9370	180.000 7.0866	49.000 1.9291	46.000 1.8110	39.000 1.5354	3.0 0.12	2.5 0.10	5.00 kg 11.02 lb
X32221	Y32221	105.000 4.1339	190.000 7.4803	53.000 2.0866	50.000 1.9685	43.000 1.6929	3.0 0.12	2.5 0.10	6.05 kg 13.34 lb
X32221M	Y32221M	105.000 4.1339	190.000 7.4803	53.000 2.0866	50.000 1.9685	43.000 1.6929	3.0 0.12	2.5 0.10	6.31 kg 13.92 lb
X32222	Y32222	110.000 4.3307	200.000 7.8740	56.000 2.2047	53.000 2.0866	46.000 1.8110	3.0 0.12	2.5 0.10	7.18 kg 15.82 lb

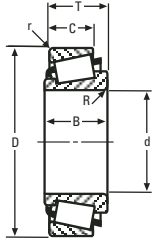


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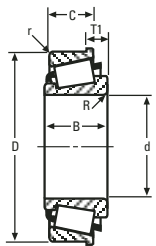
\* Flanged cup, Bearing width is T1 Dimension



# ISOCCLASS BEARINGS



**SINGLE ROW**



**SINGLE ROW WITH FLANGE**

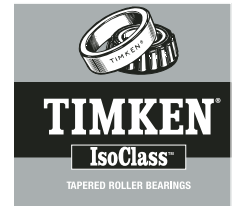
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X32222M	Y32222M	110.000 4.3307	200.000 7.8740	56.000 2.2047	53.000 2.0866	46.000 1.8110	3.0 0.12	2.5 0.10	7.28 kg 16.05 lb
X32224	Y32224	120.000 4.7244	215.000 8.4646	61.500 2.4213	58.000 2.2835	50.000 1.9685	3.0 0.12	2.5 0.10	9.03 kg 19.90 lb
X32224M	Y32224M	120.000 4.7244	215.000 8.4646	61.500 2.4213	58.000 2.2835	50.000 1.9685	3.0 0.12	2.5 0.10	9.26 kg 20.43 lb
XFA32224	Y32224	110.000 4.3307	215.000 8.4646	61.500 2.4213	58.000 2.2835	50.000 1.9685	3.0 0.12	2.5 0.10	9.85 kg 21.72 lb
X32226	Y32226	130.000 5.1181	230.000 9.0551	67.750 2.6673	64.000 2.5197	54.000 2.1260	4.1 0.16	3.0 0.12	11.03 kg 24.33 lb
X32226M	Y32226M	130.000 5.1181	230.000 9.0551	67.750 2.6673	64.000 2.5197	54.000 2.1260	4.0 0.16	3.0 0.12	11.56 kg 25.49 lb
X32304	Y32304	20.000 0.7874	52.000 2.0472	22.250 0.8760	21.000 0.8268	18.000 0.7087	1.5 0.06	1.5 0.06	0.24 kg 0.53 lb
X32304M	Y32304M	20.000 0.7874	52.000 2.0472	22.250 0.8760	21.000 0.8268	18.000 0.7087	1.5 0.06	1.5 0.06	0.23 kg 0.51 lb
X32305	Y32305	25.000 0.9843	62.000 2.4409	25.250 0.9941	24.000 0.9449	20.000 0.7874	1.5 0.06	1.5 0.06	0.37 kg 0.82 lb
X32306	Y32306	30.000 1.1811	72.000 2.8346	28.750 1.1319	27.000 1.0630	23.000 0.9055	1.5 0.06	1.5 0.06	0.56 kg 1.24 lb
X32307	Y32307	35.000 1.3780	80.000 3.1496	32.750 1.2894	31.000 1.2205	25.000 0.9843	2.0 0.08	1.5 0.06	0.76 kg 1.68 lb
X32308	Y32308	40.000 1.5748	90.000 3.5433	35.250 1.3878	33.000 1.2992	27.000 1.0630	2.0 0.08	1.5 0.06	1.03 kg 2.28 lb
X32308B	Y32308B	40.000 1.5748	90.000 3.5433	35.250 1.3878	33.000 1.2992	27.000 1.0630	2.0 0.08	1.5 0.06	1.10 kg 2.43 lb
XBA32308B	Y32308B	40.000 1.5748	90.000 3.5433	35.250 1.3878	33.500 1.3189	27.000 1.0630	2.0 0.08	1.5 0.06	1.10 kg 2.43 lb
X32309	Y32309	45.000 1.7717	100.000 3.9370	38.250 1.5059	36.000 1.4173	30.000 1.1811	2.0 0.08	1.5 0.06	1.37 kg 3.03 lb
X32309BM	Y32309BM	45.000 1.7717	100.000 3.9370	38.250 1.5059	36.000 1.4173	30.000 1.1811	2.0 0.08	1.5 0.06	1.45 kg 3.20 lb
X32309M	*Y32309RM	45.000 1.7717	100.000 3.9370	15.250 0.6004	36.000 1.4173	30.000 1.1811	2.0 0.08	1.5 0.06	1.35 kg 2.98 lb
X32309M	Y32309M	45.000 1.7717	100.000 3.9370	38.250 1.5059	36.000 1.4173	30.000 1.1811	2.0 0.08	1.5 0.06	1.42 kg 3.14 lb
X32309BM	*Y32309BRM	45.000 1.7717	100.000 3.9370	15.250 0.6004	36.000 1.4173	30.000 1.1811	2.0 0.08	1.5 0.06	1.45 kg 3.20 lb
X32310	Y32310	50.000 1.9685	110.000 4.3307	42.250 1.6634	40.000 1.5748	33.000 1.2992	2.5 0.10	2.0 0.08	1.84 kg 4.06 lb
X32310B	Y32310B	50.000 1.9685	110.000 4.3307	42.250 1.6634	40.000 1.5748	33.000 1.2992	2.5 0.10	2.0 0.08	1.95 kg 4.29 lb
X32311	Y32311	55.000 2.1654	120.000 4.7244	45.500 1.7913	43.000 1.6929	35.000 1.3780	2.5 0.10	2.0 0.08	2.34 kg 5.17 lb
X32311BM	Y32311BM	55.000 2.1654	120.000 4.7244	45.500 1.7913	43.000 1.6929	35.000 1.3780	2.5 0.10	2.0 0.08	2.50 kg 5.51 lb
X32311M	*Y32311RM	55.000 2.1654	120.000 4.7244	18.500 0.7283	43.000 1.6929	35.000 1.3780	2.5 0.10	2.0 0.08	2.30 kg 5.07 lb
X32311M	Y32311M	55.000 2.1654	120.000 4.7244	45.500 1.7913	43.000 1.6929	35.000 1.3780	2.5 0.10	2.0 0.08	2.36 kg 5.20 lb
X32311BM	*Y32311BRM	55.000 2.1654	120.000 4.7244	18.500 0.7283	43.000 1.6929	35.000 1.3780	2.5 0.10	2.0 0.08	2.50 kg 5.51 lb
X32312	Y32312	60.000 2.3622	130.000 5.1181	48.500 1.9094	46.000 1.8110	37.000 1.4567	3.0 0.12	2.5 0.10	2.90 kg 6.39 lb
X32312B	Y32312B	60.000 2.3622	130.000 5.1181	48.500 1.9094	46.000 1.8110	37.000 1.4567	3.0 0.12	2.5 0.10	3.10 kg 6.84 lb
X32312MB	Y32312BM	60.000 2.3622	130.000 5.1181	48.500 1.9094	46.000 1.8110	37.000 1.4567	3.0 0.12	2.5 0.10	2.80 kg 6.17 lb
X32312BM	*Y32312BRM	60.000 2.3622	130.000 5.1181	19.500 0.7677	46.000 1.8110	37.000 1.4567	3.0 0.12	2.5 0.10	2.80 kg 6.17 lb
X32313	Y32313	65.000 2.5591	140.000 5.5118	51.000 2.0079	48.000 1.8898	39.000 1.5354	3.0 0.12	2.5 0.10	3.54 kg 7.81 lb
X32313M	Y32313M	65.000 2.5591	140.000 5.5118	51.000 2.0079	48.000 1.8898	39.000 1.5354	3.0 0.12	2.5 0.10	3.63 kg 8.01 lb
X32314	Y32314	70.000 2.7559	150.000 5.9055	54.000 2.1260	51.000 2.0079	42.000 1.6535	3.0 0.12	2.5 0.10	4.29 kg 9.45 lb
X32314M	Y32314M	70.000 2.7559	150.000 5.9055	54.000 2.1260	51.000 2.0079	42.000 1.6535	3.0 0.12	2.5 0.10	4.40 kg 9.71 lb

\* Flanged cup, Bearing width is T1 Dimension

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ISOCCLASS BEARINGS

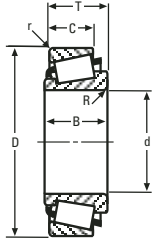
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X32316	Y32316	80.000 3.1496	170.000 6.6929	61.500 2.4213	58.000 2.2835	48.000 1.8898	3.0 0.12	2.5 0.1	6.32 kg 13.94 lb
X32316M	Y32316M	80.000 3.1496	170.000 6.6929	61.500 2.4213	58.000 2.2835	48.000 1.8898	3.0 0.12	2.5 0.10	6.35 kg 13.99 lb
X32317	Y32317	85.000 3.3465	180.000 7.0866	63.500 2.5000	60.000 2.3622	49.000 1.9291	4.0 0.16	3.0 0.12	7.27 kg 16.04 lb
X32924	Y32924	120.000 4.7244	165.000 6.4961	29.000 1.1417	29.000 1.1417	23.000 0.9055	15.0 0.59	15.0 0.59	1.78 kg 3.92 lb
X32924M	Y32924M	120.000 4.7244	165.000 6.4961	29.000 1.1417	29.000 1.1417	23.000 0.9055	1.5 0.06	1.5 0.06	1.80 kg 3.96 lb
X32928M	Y32928M	140.000 5.5118	190.000 7.4803	32.000 1.2598	32.000 1.2598	25.000 0.9843	2.0 0.08	1.5 0.06	2.52 kg 5.56 lb
X32930M	Y32930M	150.000 5.9055	210.000 8.2677	38.000 1.4961	38.000 1.4961	30.000 1.1811	2.5 0.10	2.0 0.08	4.00 kg 8.81 lb
X32934M	Y32934M	170.000 6.6929	230.000 9.0551	38.000 1.4961	38.000 1.4961	30.000 1.1811	2.5 0.10	2.0 0.08	4.41 kg 9.72 lb
X32936	Y32936	180.000 7.0866	250.000 9.8425	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	6.51 kg 14.34 lb
X32936M	Y32936M	180.000 7.0866	250.000 9.8425	45.000 1.7717	45.000 1.7717	34.000 1.3386	2.5 0.10	2.0 0.08	6.50 kg 14.33 lb
X32940M	Y32940M	200.000 7.8740	280.000 11.0236	51.000 2.0079	51.000 2.0079	39.000 1.5354	3.0 0.12	2.5 0.10	9.44 kg 20.82 lb
X32944	Y32944	220.000 8.6614	300.000 11.8110	51.000 2.0079	51.000 2.0079	39.000 1.5354	3.0 0.12	2.5 0.10	11.20 kg 24.69 lb
X32960	Y32960	300.000 11.8110	420.000 16.5354	76.000 2.9921	76.000 2.9921	56.000 2.2047	4.0 0.16	4.0 0.16	31.50 kg 69.45 lb
X32972	Y32972	360.000 14.1732	480.000 18.8976	76.500 3.0118	76.500 3.0118	72.000 2.8346	4.0 0.16	3.0 0.12	40.60 kg 89.51 lb
X33010	Y33010	50.000 1.9685	80.000 3.1496	24.000 0.9449	24.000 0.9449	19.000 0.7480	1.0 0.04	1.0 0.04	0.45 kg 1.00 lb
XAA33010	Y33010	50.000 1.9685	80.000 3.1496	24.000 0.9449	24.000 0.9449	19.000 0.7480	1.5 0.06	1.0 0.04	0.45 kg 1.00 lb
X33011	Y33011	55.000 2.1654	90.000 3.5433	27.000 1.0630	27.000 1.0630	21.000 0.8268	1.5 0.06	1.5 0.06	0.67 kg 1.47 lb
X33012	Y33012	60.000 2.3622	95.000 3.7402	27.000 1.0630	27.000 1.0630	21.000 0.8268	1.5 0.06	1.5 0.06	0.70 kg 1.54 lb
X33013	Y33013	65.000 2.5591	100.000 3.9370	27.000 1.0630	27.000 1.0630	21.000 0.8268	1.5 0.06	1.5 0.06	0.75 kg 1.65 lb
X33014M	Y33014M	70.000 2.7559	110.000 4.3307	31.000 1.2205	31.000 1.2205	25.500 1.0039	1.5 0.06	1.5 0.06	1.11 kg 2.44 lb
X33015	Y33015	75.000 2.9528	115.000 4.5276	31.000 1.2205	31.000 1.2205	25.500 1.0039	1.5 0.06	1.5 0.06	1.16 kg 2.56 lb
X33017	Y33017	85.000 3.3465	130.000 5.1181	36.000 1.4173	36.000 1.4173	29.500 1.1614	1.5 0.06	1.5 0.06	1.75 kg 3.86 lb
X33018	Y33018	90.000 3.5433	140.000 5.5118	39.000 1.5354	39.000 1.5354	32.500 1.2795	2.0 0.08	1.5 0.06	2.20 kg 4.85 lb
X33019	Y33019	95.000 3.7402	145.000 5.7087	39.000 1.5354	39.000 1.5354	32.500 1.2795	2.0 0.08	1.5 0.06	2.25 kg 4.96 lb
XAA33019	Y33019	95.000 3.7402	145.000 5.7087	39.000 1.5354	39.000 1.5354	32.500 1.2795	6.0 0.24	1.5 0.06	2.25 kg 4.96 lb
X33020	Y33020	100.000 3.9370	150.000 5.9055	39.000 1.5354	39.000 1.5354	32.500 1.2795	2.0 0.08	1.5 0.06	2.37 kg 5.22 lb
X33021	Y33021	105.000 4.1339	160.000 6.2992	43.000 1.6929	43.000 1.6929	34.000 1.3386	2.5 0.10	2.0 0.08	2.97 kg 6.55 lb
X33021M	Y33021M	105.000 4.1339	160.000 6.2992	43.000 1.6929	43.000 1.6929	34.000 1.3386	2.5 0.10	2.0 0.08	2.98 kg 6.57 lb
X33022	Y33022	110.000 4.3307	170.000 6.6929	47.000 1.8504	47.000 1.8504	37.000 1.4567	2.5 0.10	2.0 0.08	3.84 kg 8.47 lb
X33024	Y33024	120.000 4.7244	180.000 7.0866	48.000 1.8898	48.000 1.8898	38.000 1.4961	2.5 0.10	2.0 0.08	4.20 kg 9.26 lb
X33108	Y33108	40.000 1.5748	75.000 2.9528	26.000 1.0236	26.000 1.0236	20.500 0.8071	1.5 0.06	1.5 0.06	0.50 kg 1.10 lb
XAA33108	Y33108	40.000 1.5748	75.000 2.9528	26.000 1.0236	26.000 1.0236	20.500 0.8071	3.5 0.14	1.5 0.06	0.50 kg 1.10 lb



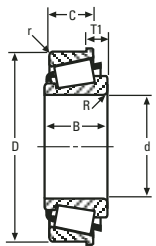
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\* Flanged cup, Bearing width is T1 Dimension

# ISOCCLASS BEARINGS



**SINGLE ROW**



**SINGLE ROW WITH FLANGE**

CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
X33109	Y33109	45.000 1.7717	80.000 3.1496	26.000 1.0236	26.000 1.0236	20.500 0.8071	1.5 0.06	1.5 0.06	0.53 kg 1.18 lb
X33109	*Y33109R	45.000 1.7717	80.000 3.1496	10.000 0.3937	26.000 1.0236	20.500 0.8071	1.5 0.06	1.5 0.06	0.56 kg 1.23 lb
X33110	Y33110	50.000 1.9685	85.000 3.3465	26.000 1.0236	26.000 1.0236	20.000 0.7874	1.5 0.06	1.5 0.06	0.59 kg 1.30 lb
X33111	Y33111	55.000 2.1654	95.000 3.7402	30.000 1.1811	30.000 1.1811	23.000 0.9055	1.5 0.06	1.5 0.06	0.85 kg 1.87 lb
XAA33111	Y33111	55.000 2.1654	95.000 3.7402	30.000 1.1811	30.000 1.1811	23.000 0.9055	3.5 0.14	1.5 0.06	0.85 kg 1.87 lb
X33112	Y33112	60.000 2.3622	100.000 3.9370	30.000 1.1811	30.000 1.1811	23.000 0.9055	1.5 0.06	1.5 0.06	0.91 kg 2.01 lb
X33113	Y33113	65.000 2.5591	110.000 4.3307	34.000 1.3386	34.000 1.3386	26.500 1.0433	1.5 0.06	1.5 0.06	1.25 kg 2.76 lb
X33114	Y33114	70.000 2.7559	120.000 4.7244	37.000 1.4567	37.000 1.4567	29.000 1.1417	2.0 0.08	1.5 0.06	1.68 kg 3.70 lb
X33115	Y33115	75.000 2.9528	125.000 4.9213	37.000 1.4567	37.000 1.4567	29.000 1.1417	2.0 0.08	1.5 0.06	1.77 kg 3.91 lb
XAA33115	Y33115	75.000 2.9528	125.000 4.9213	37.000 1.4567	37.000 1.4567	29.000 1.1417	6.0 0.24	1.5 0.06	1.77 kg 3.91 lb
X33116	Y33116	80.000 3.1496	130.000 5.1181	37.000 1.4567	37.000 1.4567	29.000 1.1417	2.0 0.08	1.5 0.06	1.88 kg 4.14 lb
X33116M	Y33116M	80.000 3.1496	130.000 5.1181	37.000 1.4567	37.000 1.4567	29.000 1.1417	2.0 0.08	1.5 0.06	1.87 kg 4.13 lb
X33117	Y33117	85.000 3.3465	140.000 5.5118	41.000 1.6142	41.000 1.6142	32.000 1.2598	2.5 0.10	2.0 0.08	2.48 kg 5.48 lb
X33118	Y33118	90.000 3.5433	150.000 5.9055	45.000 1.7717	45.000 1.7717	35.000 1.3780	2.5 0.10	2.0 0.08	3.17 kg 6.99 lb
X33118M	Y33118M	90.000 3.5433	150.000 5.9055	45.000 1.7717	45.000 1.7717	35.000 1.3780	2.5 0.10	2.0 0.08	3.13 kg 6.89 lb
X33205	Y33205	25.000 0.9843	52.000 2.0472	22.000 0.8661	22.000 0.8661	18.000 0.7087	1.0 0.04	1.0 0.04	0.22 kg 0.50 lb
X33206	Y33206	30.000 1.1811	62.000 2.4409	25.000 0.9843	25.000 0.9843	19.500 0.7677	1.0 0.04	1.0 0.04	0.35 kg 0.78 lb
X33207	Y33207	35.000 1.3780	72.000 2.8346	28.000 1.1024	28.000 1.1024	22.000 0.8661	1.5 0.06	1.5 0.06	0.53 kg 1.18 lb
X33208	Y33208	40.000 1.5748	80.000 3.1496	32.000 1.2598	32.000 1.2598	25.000 0.9843	1.5 0.06	1.5 0.06	0.73 kg 1.62 lb
X33209	Y33209	45.000 1.7717	85.000 3.3465	32.000 1.2598	32.000 1.2598	25.000 0.9843	1.5 0.06	1.5 0.06	0.79 kg 1.75 lb
X33210	Y33210	50.000 1.9685	90.000 3.5433	32.000 1.2598	32.000 1.2598	24.500 0.9646	1.5 0.06	1.5 0.06	0.85 kg 1.87 lb
X33210	*YSA33210R	50.000 1.9685	95.000 3.7402	10.000 0.3936	32.000 1.2598	27.000 1.0630	1.5 0.06	1.5 0.06	1.05 kg 2.32 lb
XGA33210	Y33210	40.000 1.5748	90.000 3.5433	32.000 1.2598	32.000 1.2598	24.500 0.9646	1.5 0.06	1.5 0.06	1.03 kg 2.26 lb
XGA33210	*YSA33210R	40.000 1.5748	95.000 3.7402	10.000 0.3937	32.000 1.2598	27.000 1.0630	1.5 0.06	1.5 0.06	1.23 kg 2.71 lb
X33211	Y33211	55.000 2.1654	100.000 3.9370	35.000 1.3780	35.000 1.3780	27.000 1.0630	2.0 0.08	1.5 0.06	1.17 kg 2.57 lb
X33211M	Y33211M	55.000 2.1654	100.000 3.9370	35.000 1.3780	35.000 1.3780	27.000 1.0630	2.0 0.08	1.5 0.06	1.20 kg 2.65 lb
XGA33211	Y33211	50.815 2.0006	100.000 3.9370	35.000 1.3780	35.000 1.3780	27.000 1.0630	2.0 0.08	1.5 0.06	1.26 kg 2.78 lb
XLA33211	Y33211	50.000 1.9685	100.000 3.9370	33.500 1.3189	33.500 1.3189	27.000 1.0630	2.0 0.08	1.5 0.06	1.25 kg 2.75 lb
X33212	Y33212	60.000 2.3622	110.000 4.3307	38.000 1.4961	38.000 1.4961	29.000 1.1417	2.0 0.08	1.5 0.06	1.53 kg 3.37 lb
X33212	*Y33212R	60.000 2.3622	110.000 4.3307	16.000 0.6299	38.000 1.4961	29.000 1.1417	2.0 0.08	1.5 0.06	1.59 kg 3.50 lb
XAA33212	Y33212	60.000 2.3622	110.000 4.3307	38.000 1.4961	38.000 1.4961	29.000 1.1417	6.0 0.24	1.5 0.06	1.53 kg 3.37 lb
XAA33212	*Y33212R	60.000 2.3622	110.000 4.3307	16.000 0.6299	28.000 1.1024	29.000 1.1417	6.0 0.24	1.5 0.06	1.59 kg 3.50 lb
XAB33212	Y33212	60.000 2.3622	110.000 4.3307	38.000 1.4961	38.000 1.4961	29.000 1.1417	5.0 0.20	1.5 0.06	1.53 kg 3.37 lb

\* Flanged cup, Bearing width is T1 Dimension

**ISOCCLASS BEARINGS**

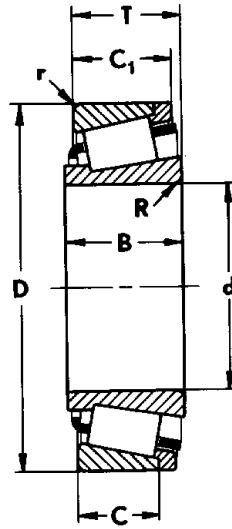
CONE (Inner Race) number	CUP (Outer Race) number	Cone BORE d	Cup OUTSIDE DIA. D	Bearing WIDTH T	Cone WIDTH B	Cup WIDTH C	Max. Shaft Fillet Radii R	Max. Hsng. Fillet Radii r	Weight
XAB33212	*Y33212R	60.000	110.000	16.000	38.000	29.000	5.0	1.5	1.59 kg
		2.3622	4.3307	0.6299	1.4961	1.1417	0.20	0.06	3.50 lb
XGA33212	Y33212	45.000	110.000	38.000	38.000	29.000	3.5	1.5	1.89 kg
		1.7717	4.3307	1.4961	1.4961	1.1417	0.14	0.06	4.17 lb
XGA33212	*Y33212R	45.000	110.000	16.000	38.000	29.000	3.5	1.5	1.95 kg
		1.7717	4.3307	0.6299	1.4961	1.1417	0.14	0.06	4.30 lb
XGB33212	Y33212	55.000	110.000	38.000	38.000	29.000	0.8	1.5	1.67 kg
		2.1654	4.3307	1.4961	1.4961	1.1417	0.03	0.06	3.67 lb
XGB33212	*Y33212R	55.000	110.000	16.000	38.000	29.000	0.8	1.5	1.72 kg
		2.1654	4.3307	0.6299	1.4961	1.1417	0.03	0.06	3.80 lb
X33213	Y33213	65.000	120.000	41.000	41.000	32.000	2.0	1.5	1.97 kg
		2.5591	4.7244	1.6142	1.6142	1.2598	0.08	0.06	4.35 lb
X33213M	Y33213M	65.000	120.000	41.000	41.000	32.000	2.0	1.5	1.99 kg
		2.5591	4.7244	1.6142	1.6142	1.2598	0.08	0.06	4.39 lb
X33214	Y33214	70.000	125.000	41.000	41.000	32.000	2.0	1.5	2.11 kg
		2.7559	4.9213	1.6142	1.6142	1.2598	0.08	0.06	4.66 lb
X33215	Y33215	75.000	130.000	41.000	41.000	32.000	2.0	1.5	2.18 kg
		2.9528	5.1181	1.6142	1.6142	1.2598	0.08	0.06	4.81 lb
X33215M	Y33215M	75.000	130.000	41.000	41.000	32.000	2.0	1.5	2.25 kg
		2.9528	5.1181	1.6142	1.6142	1.2598	0.08	0.06	4.96 lb
X33216	Y33216	80.000	140.000	46.000	46.000	35.000	2.5	2.0	2.94 kg
		3.1496	5.5118	1.8110	1.8110	1.3780	0.10	0.08	6.49 lb
X33217	Y33217	85.000	150.000	49.000	49.000	37.000	2.5	2.0	3.61 kg
		3.3465	5.9055	1.9291	1.9291	1.4567	0.10	0.08	7.96 lb
X33217M	Y33217M	85.000	150.000	49.000	49.000	37.000	2.5	2.0	3.70 kg
		3.3465	5.9055	1.9291	1.9291	1.4567	0.10	0.08	8.16 lb



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\* Flanged cup, Bearing width is T1 Dimension

**UNIT BEARING™ – TSU TYPE BEARING**



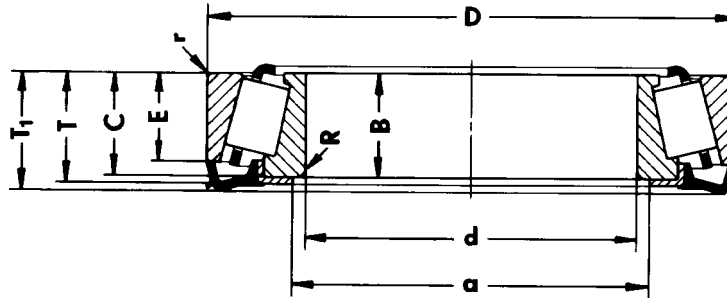
CONE			MAX SHAFT FILLET RADII R	CUP			WIDTH OVER RIB RING AND CUP C1	MAX HS'NG FILLET RADII r**	BEARING	Remarks
SERIES	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH c			WIDTH T	
U100	U199	29.987	19.500	U160L	58.000	13.000	16.000	1.3	17.000	
		1.1811	0.7677		2.3	2.8750				
U200	U298	34.987	20.600	U261L	65.000	14.000	17.000	1.3	16.100	
		1.3780	0.8110		2.3	2.5591				
U300	U399	39.688	22.098	U360L	73.025	15.265	18.500	1.3	19.395	
		1.5625	0.8700		2.3	2.8750				
	U399A	39.688	22.098	U365L	79.967	15.265	20.091	1.3	19.395	
		1.5625	0.8700		3.1483	0.6010	0.7910	0.05	0.7636	
U400	U497	44.987	26.000	U460L	79.975	18.000	22.000	1.3	24.000	
		1.7717	1.0236		3.1496	0.7087	0.8622	0.05	0.9449	

DUO-FACE® SERIES CONTINUED ON NEXT PAGE

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

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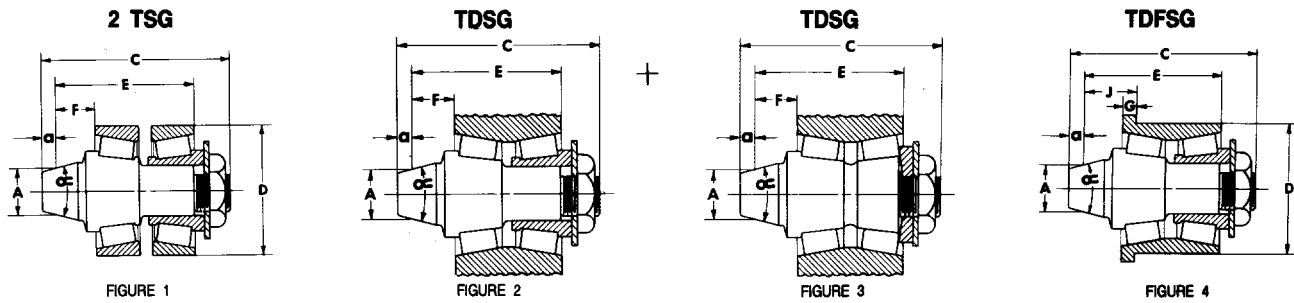
DUO-FACE® – TSL BEARING TYPE



CONE			MAX SHAFT FILLET RADII R **	CUP			MAX HS'NG FILLET RADII r **	SEAL		BEARING			Remarks		
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		Number	INSIDE DIA a	NORMAL WIDTH C	OVER STAMP WIDTH T	OVER SEAL WIDTH T1			
395 SERIES	390A	68.262 2.6875	21.996 0.8660	394A	110.000 4.3307	18.824 0.7411	1.3 0.05	395LC	73.660 2.9000	22.000 0.8661	23.218 0.9141	24.638 0.9700			
	399A	68.262 2.6875	21.996 0.8660		394A	110.000 4.3307		18.824 0.7411	1.3 0.05	395LA	73.660 2.9000	22.000 0.8661	23.218 0.9141	24.638 0.9700	
07000 SERIES	07100	25.400 1.0000	14.260 0.5614	07196	50.005 1.9687	9.525 0.3750	0.4 0.02	07000LA	27.940 1.1000	13.495 0.5313	14.206 0.5593	15.392 0.6060			
LM11900 SERIES	LM11949	19.050 0.7500	16.637 0.6550	LM11910	45.237 1.7810	12.065 0.4750	1.3 0.05	LM11900EA	27.000 1.0630	15.494 0.6100	16.281 0.6410	17.400 0.6850			
	LM11949	19.050 0.7500	16.637 0.6550		LM11910	45.237 1.7810		12.065 0.4750	1.3 0.05	LM11900LA	22.225 0.8750	15.494 0.6100	16.281 0.6410	17.400 0.6850	
M12600 SERIES	M12649	21.430 0.8437	18.288 0.7200	M12610	50.005 1.9687	13.970 0.5500	1.3 0.05	M12600LA	24.511 0.9650	0.690 17.5260	0.721 18.3130	19.430 0.7650			
13600 SERIES	13685	38.100 1.5000	19.050 0.7500	13621	69.012 2.7170	15.083 0.5938	2.3 0.09	13600LA	45.974 1.8100	19.050 0.7500	19.812 0.7800	20.960 0.8250			
	13685	38.100 1.5000	19.050 0.7500		13621A	69.012 2.7170		14.321 0.5638	2.3 0.09	13600LA	45.974 1.8100	19.050 0.7500	19.812 0.7800	20.960 0.8250	
LM29700 SERIES	LM29748	38.100 1.5000	18.288 0.7200	LM29710	65.068 2.5625	13.970 0.4200	1.3 0.05	LM29700LA	45.847 1.8050	18.034 0.7100	18.796 0.7400	19.940 0.7850			
L44600 SERIES	L44642	25.400 1.0000	14.732 0.5800	L44610	50.292 1.9800	10.668 0.4200	1.3 0.05	L44600LC	34.925 1.3750	14.224 0.5600	14.935 0.5880	16.130 0.6350			
	L44643	25.400 1.0000	14.732 0.5800		L44610	50.292 1.9800		10.668 0.4200	1.3 0.05	L44600LA	34.925 1.3750	14.224 0.5600	14.935 0.5880	16.130 0.6350	
	L44643X	25.400 1.0000	14.732 0.5800		L44610	50.292 1.9800		10.668 0.4200	1.3 0.05	L44600LB	34.925 1.3750	14.224 0.5600	14.935 0.5880	16.130 0.6350	With O-Ring K97154 in Bore
LM48500 SERIES	LM48548	34.925 1.3750	18.288 0.7200	LM48510	65.088 2.5625	13.970 0.5500	1.3 0.05	LM48500LA	42.799 1.6850	18.034 0.7100	18.796 0.7400	19.940 0.7850			
LM67000 SERIES	LM67048	31.750 1.2500	16.764 0.6600	LM67010	59.131 2.3280	11.811 0.4650	1.3 0.05	LM67000LA	39.599 1.5590	15.875 0.6250	16.637 0.6550	17.780 0.7000			

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

# MULTIPLE-ROW STEERING GEAR BEARING



BEARING NUMBER	FIG. NO.	CONTACT DIAMETER	a	NOSE ANGLE	CUP OUTSIDE DIAMETER D	WIDTH C	E	STANDOUT	FLANGE WIDTH C	REMARKS
		A						F OR J		
A3045 - A3044	2	12.471	2.54	29°-0'	-	42.469	30.002	9.365	-	
	2	0.4910	0.100	29°-0'	-	1.6720	1.1812	0.3687	-	
00053 - 00055	2	16.027	2.54	29°-0'	-	49.566	36.312	12.141	-	
	2	0.6310	0.100	29°-0'	-	1.9514	1.4296	0.4780	-	
00053 - 00055 - 00152	1	16.027	2.54	29°-0'	38.100	49.566	39.307	9.147	-	
	1	0.6310	0.100	29°-0'	1.5000	1.9514	1.5475	0.3601	-	
00057 - 00055	2	12.471	2.54	29°-0'	-	47.584	34.331	10.160	-	
	2	0.4910	0.100	29°-0'	-	1.8734	1.3516	0.4000	-	
00057 - 00055 - 00152	1	12.471	2.54	29°-0'	38.100	47.584	37.325	7.165	-	
	1	0.4910	0.100	29°-0'	1.5000	1.8734	1.4695	0.2621	-	
00058 - 00055 - 00153DB	4	13.208	2.54	29°-0'	38.100	49.987	37.135	14.910	3.175	
	4	0.5200	0.100	29°-0'	1.5000	1.9680	1.4620	0.5870	0.1250	
09083 - 09079 - 09195DB	4	14.453	2.54	29°-0'	49.225	65.088	48.710	21.130	3.970	
	4	0.5690	0.100	29°-0'	1.9380	2.5625	1.9177	0.8319	0.1583	
M12430 - M12448 - M12411DB	4	14.453	2.54	29°-0'	49.225	57.900	43.467	20.447	3.967	
	4	0.5690	0.100	29°-0'	1.9380	2.2795	1.7113	0.8055	0.1562	
M12431 - M12448 - M12411DB	4	10.389	2.54	40°-0'	49.225	58.687	44.254	21.234	3.967	
	4	0.4090	0.100	40°-0'	1.9380	2.3105	1.7423	0.8360	0.1562	
17482 - 17481 - 17420DB	4	13.208	2.54	29°-0'	39.688	50.394	37.135	14.910	3.175	
	4	0.5200	0.100	29°-0'	1.5625	1.9840	1.4620	0.5870	0.1250	
17483 - 17481 - 17420DB	4	11.938	2.54	29°-0'	39.688	50.394	37.135	14.910	3.175	
	4	0.4700	0.100	29°-0'	1.5625	1.9840	1.4620	0.5870	0.1250	
17484 - 17481 - 17420DB	4	11.938	6.81	29°-0'	39.688	54.661	37.135	14.910	3.175	
	4	0.4700	0.268	29°-0'	1.5625	2.1520	1.4620	0.5870	0.1250	
17485 - 17481 - 17420DB	4	8.763	2.54	40°-0'	39.688	51.232	37.973	15.748	3.175	
	4	0.3450	0.100	40°-0'	1.5625	2.0170	1.4950	0.6200	0.1250	
17486 - 17481 - 17420DB	4	10.973	2.54	40°-0'	39.688	52.502	39.243	17.018	3.175	
	4	0.4320	0.100	40°-0'	1.5625	2.0670	1.5450	0.6700	0.1250	
17582 - 17581 - 17520DB	4	14.453	2.54	29°-0'	42.863	51.595	38.722	14.910	3.175	
	4	0.5690	0.100	29°-0'	1.6875	2.0313	1.5245	0.5870	0.1250	
17583 - 17581 - 17520DB	4	14.453	2.54	29°-0'	42.863	55.557	42.685	18.872	3.175	
	4	0.5690	0.100	29°-0'	1.6875	2.1873	1.6805	0.7430	0.1250	
17584 - 17581 - 17520DB	4	8.763	2.54	40°-0'	42.863	55.481	42.609	18.796	3.175	
	4	0.3450	0.100	40°-0'	1.6875	2.1843	1.6775	0.7400	0.1250	
LM31331	3	8.458	3.68	40°-0'	-	47.473	31.814	11.176	-	
	3	0.3330	0.145	40°-0'	-	1.8690	1.2525	0.4400	-	
LM31333	3	11.113	3.68	29°-0'	-	47.473	31.814	11.176	-	
	3	0.4375	0.145	29°-0'	-	1.8690	1.2525	0.4400	-	

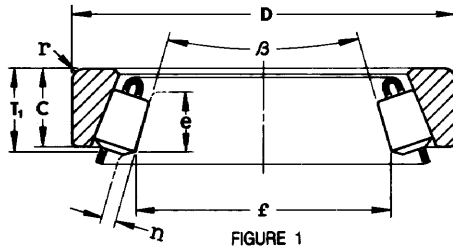
STEERING GEAR SERIES CONTINUED ON NEXT PAGE

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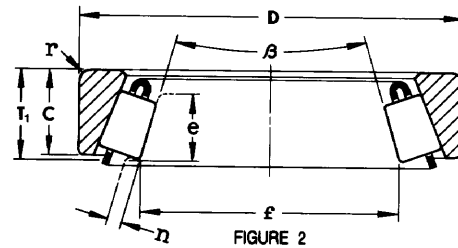


STEERING GEAR BEARING – TYPE TSG

BA CONSTRUCTION



BC CONSTRUCTION

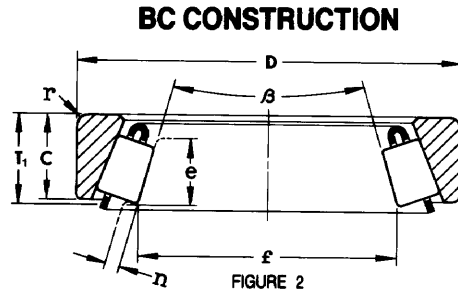
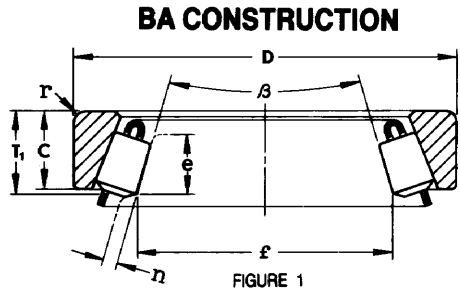


CAGE AND ROLLER						CUP			MAX. HOUSING FILLET RADIUS r	BA CONST. WIDTH		REMARKS	
NUMBER	FIG. NO.	BASE DIA f	RACE LENGTH e	RIB HEIGHT n	CONE ANGLE	Number	OUTSIDE DIA. D	WIDTH C		T1	T1		
<b>5 SERIES</b>													
5BA	1	28.070	7.315	1.905	25°-24'	6	44.450	9.525	1.5	9.525	10.063	6C: SPECIAL BACKFACE CHAMFER  7A: STEPPED OD	
	1	1.1051	0.2880	0.0750	25°-24'		1.7500	0.3750	0.06	0.3750	0.3962		
5BC	2	28.313	7.854	1.727	25°-24'	*6C	49.146	19.050	CH	18.931	19.469		
	2	1.1147	0.3092	0.0680	25°-24'	1.9349	0.7500	CH	0.7453	0.7665			
						7	49.154	15.088	0.5	15.088	15.626		
							1.9352	0.5940	0.02	0.5940	0.6152		
						*7A	49.154	22.225	0.8	22.205	22.746		
							1.9352	0.8750	0.03	0.8742	0.8955		
						06	49.154	15.875	0.8	15.794	16.332		
							1.9352	0.6250	0.03	0.6218	0.6430		
<b>11 SERIES</b>													
11BA	1	33.010	7.610	1.981	29°-58'	13C	49.225	11.509	1.5	12.311	12.845		14: BACKFACE CHAMFER  14C: SPECIAL BACKFACE CHAMFER
	1	1.2996	0.2996	0.0780	29°-58'		1.9380	0.4531	0.06	0.4847	0.5057		
11BC	2	33.297	8.123	1.727	29°-58'	13X	49.609	11.509	1.5	12.311	12.845		
	2	1.3109	0.3198	0.0680	29°-58'		1.9531	0.4531	0.06	0.4847	0.5057		
						*14	53.917	16.172	CH	17.323	17.859		
							2.1227	0.6367	CH	0.6820	0.7031		
						*14C	57.092	17.094	CH	17.920	18.456		
							2.2477	0.6730	CH	0.7055	0.7266		
						14CE	52.362	9.525	1.5	9.530	10.063		
							2.0615	0.3750	0.06	0.3752	0.3962		
						14XS	57.092	17.094	2.0	17.922	18.456		
							2.2477	0.6730	0.08	0.7056	0.7266		
<b>15 SERIES</b>													
15BA	1	36.086	7.315	1.981	32°-50'	16	51.994	11.908	1.5	13.127	13.658	18: SPECIAL BACKFACE CHAMFER	
	1	1.4207	0.2880	0.0780	32°-50'		2.0470	0.4688	0.06	0.5168	0.5377		
15BC	2	36.398	7.826	1.727	32°-50'	17	51.994	12.189	1.5	13.106	13.637		
	2	1.4330	0.3081	0.0680	32°-50'		2.0470	0.4799	0.06	0.5160	0.5369		
						*18	66.604	23.876	CH	25.095	25.626		
							2.6222	0.9400	CH	0.9880	1.0089		
<b>21 SERIES</b>													
21BA	1	34.557	9.525	2.286	29°-20'	23	55.524	11.113	1.5	12.700	-		
	1	1.3605	0.3750	0.0900	29°-20'		2.1860	0.4375	0.06	0.5000	-		
21BC	2	34.930	10.231	2.057	29°-20'	24	55.524	11.908	1.5	12.692	13.406		
	2	1.3752	0.4028	0.0810	29°-20'		2.1860	0.4688	0.06	0.4997	0.5278		
<b>31 SERIES</b>													
31BA	1	40.193	9.525	3.100	29°-36'	32	61.087	11.113	1.5	12.700	-		
	1	1.5824	0.3750	0.1220	29°-36'		2.4050	0.4375	0.06	0.5000	-		
31BC	2	40.620	10.338	2.794	29°-36'	32C	61.087	11.908	1.5	12.705	13.513		
	2	1.5992	0.4070	0.1100	29°-36'		2.4050	0.4688	0.06	0.5002	0.5320		
						32X	58.738	11.908	1.5	12.705	13.513		
							2.3125	0.4688	0.06	0.5002	0.5320		
						33	66.637	11.113	1.5	12.700	-		
							2.6235	0.4375	0.06	0.5000	-		

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\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

**STEERING GEAR BEARING – TYPE TSG**



CAGE AND ROLLER						CUP			MAX. HOUSING FILLET RADIUS r	BA CONST. WIDTH T1	BC CONST. WIDTH T1	REMARKS
NUMBER	FIG. NO.	BASE DIA f	RACE LENGTH e	RIB HEIGHT n	CONE ANGLE	Number	OUTSIDE DIA. D	WIDTH c				
<b>35 SERIES</b>												
35BA	1	43.193	11.113	3.100	31°-52'	36X	64.287	13.096	1.5	13.096	13.904	
	1	1.7005	0.4375	0.1220	31°-52'		2.5310	0.5156	0.06	0.5156	0.5474	
35BC	2	12.471	11.113	2.794	31°-52'	*38A	69.850	23.368	CH	23.368	24.176	38A: SPECIAL BACKFACE CHAMFER
	2	1.7187	0.4375	0.1100	31°-52'		2.7500	0.9200	CH	0.9200	0.9518	
						*38AW	69.850	23.368	CH	23.368	24.178	38AW: SLOT IN OD SPECIAL BACKFACE CHAMFER
							2.7500	0.9200	CH	0.9200	0.9518	
						*38X	69.850	18.654	CH	18.616	19.423	38X: SLOT IN OD SPECIAL BACKFACE CHAMFER
							2.7500	0.7344	CH	0.7329	0.7647	
<b>45 SERIES</b>												
45BC	2	56.469	11.113	2.794	41°-36'	46	79.375	13.208	1.5	-	14.605	
	2	2.2232	0.4375	0.1100	41°-36'		3.1250	0.5200	0.06	-	0.5750	
						*47	87.313	25.654	CH	-	27.051	47: SPECIAL BACKFACE CHAMFER
							3.4375	1.0100	CH	-	1.0650	
						*47W	87.313	25.654	CH	-	27.051	47W: SLOT IN OD SPECIAL BACKFACE CHAMFER
							3.4375	1.0100	CH	-	1.0650	
<b>32207 SERIES</b>												
CB32207	2	47.345	16.000	3.683	20°-6'-56"	†Y-32207	72.000	19.000	2.0	-	19.743	
	2	1.8640	0.6299	0.1450	20°-6'-56"		2.8346	0.7480	0.06	-	0.7773	

STEERING GEAR SERIES CONTINUED ON NEXT PAGE

†These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
†Bore or O.D. shown are maximum dimensions. \*See Remarks Column.

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STEERING GEAR BEARING – TYPE TSG

BA CONSTRUCTION

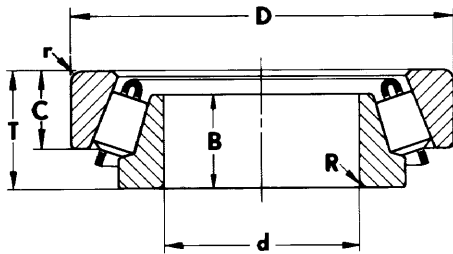


FIGURE 1

BC CONSTRUCTION

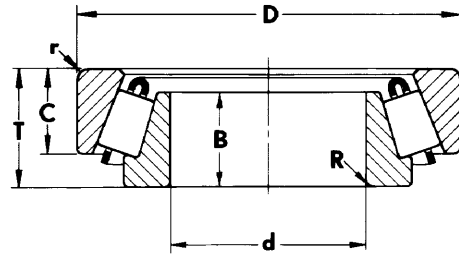


FIGURE 2

CONE – CAGE AND ROLLER				MAX. SHAFT FILLET RADIUS R	CUP			MAX. HOUSING FILLET RADIUS C1	BEARING WIDTH T	REMARKS	
NUMBER	FIG. NO.	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C				
5 SERIES					6	44.450 1.7500	9.525 0.3750	1.5 0.06	13.492 0.5312	6CE: SPECIAL BACKFACE CHAMFER	
					*6CE	49.146 1.9349	19.050 0.7500	CH CH	22.898 0.9015		
	4CB-5BC	2	209.638	12.090	1.3						When these Cone - Cage Roller units are assembled cups in this series, add 0.744 mm (0.0293 in) to "T" dimensions.
		2	0.8125	0.4760	0.05						
	4CX-5BC	2	19.588	12.090	0.3						
	2	0.7712	0.4760	0.01							
31 SERIES	29-31BA	1	30.163	16.662	1.5	32	61.087	11.113	1.5	19.050	
		1	1.1875	0.6560	0.06		2.4050	0.4375	0.06	0.7500	
						32X	58.738	11.908	1.5	19.055	
						2.3125	0.4688	0.06	0.7502		
35 SERIES	40-35BC	2	30.124	15.479	1.3	36X	64.287	13.096	1.5	18.273	
		2	1.1860	0.6094	0.05		2.5310	0.5156	0.06	0.7194	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.

CROSSED ROLLER BEARINGS CONTINUED ON NEXT PAGE

\*See Remarks Column.

# CROSSED ROLLER BEARING

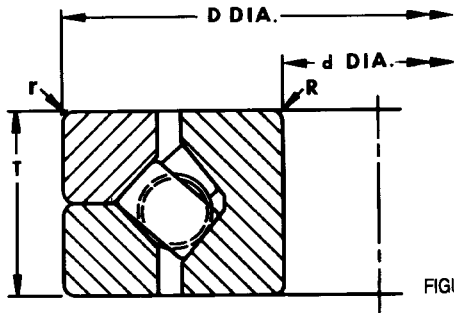


FIGURE 1

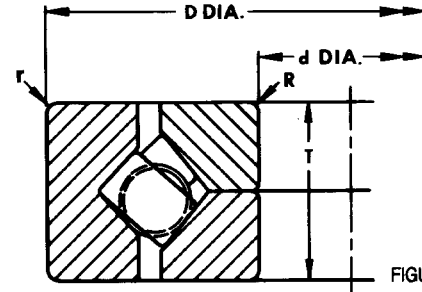


FIGURE 2

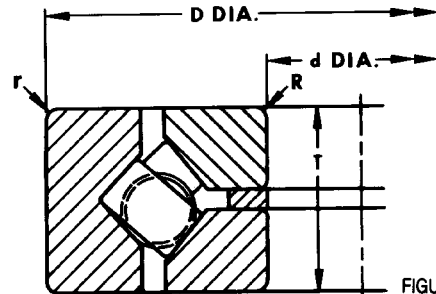


FIGURE 3

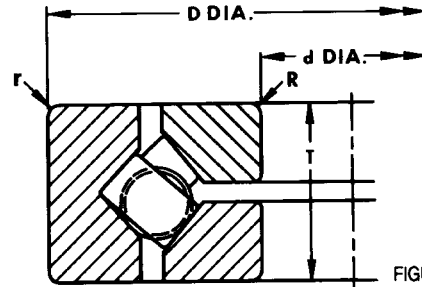


FIGURE 4

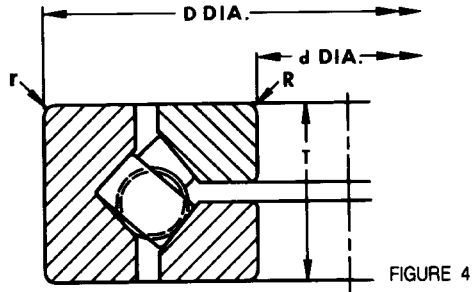
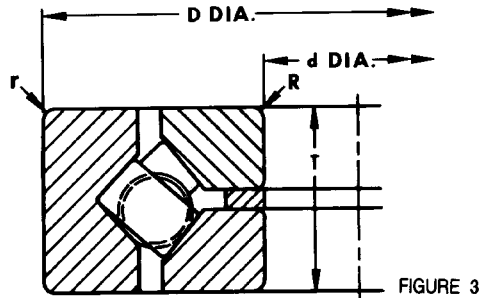
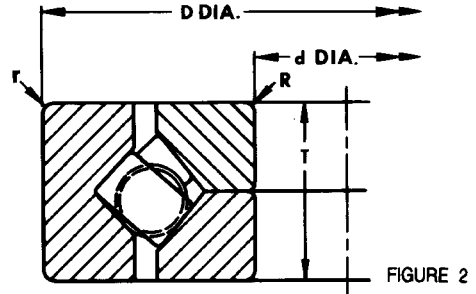
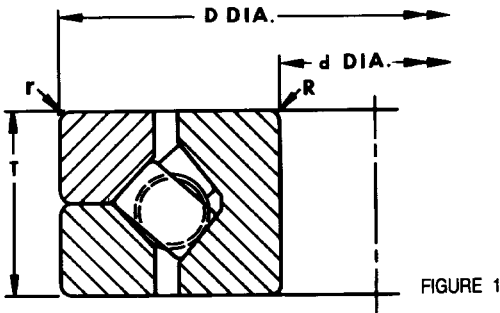
BEARING NUMBER	FIG NO	Bore d	OD D	Cone Max SHAFT Width T	CUP Max SHAFT FILLET RADIUS R	FILLET RADIUS r	Remarks
*XR496051	4	203.200	279.400	31.750	1.5	1.5	Assembled with XR496002 rollers & K11531 roller extensions
	4	8.0000	11.0000	1.2500	0.06	0.06	
*XR496052	1	203.200	279.400	31.750	1.5	1.5	As XR496050 but fitted with nylon separators
	1	8.0000	11.0000	1.2500	0.06	0.06	
*XR496053	4	203.200	279.400	31.750	1.5	1.5	As XR496051 but fitted with phos bronze separators and K444680 roller extensions
	4	8.0000	11.0000	1.2500	0.06	0.06	
JXR637050	4	300.000	400.000	36.492	1.5	1.5	
	4	11.8110	15.7480	1.4367	0.06	0.06	
XR637050	4	300.000	400.000	37.000	1.5	1.5	
	4	11.8110	15.7480	1.4567	0.06	0.06	
JXR652050	4	310.000	425.000	45.000	2.5	2.5	
	4	12.2047	16.7323	1.7716	0.10	0.10	
*XR678052	4	330.200	457.200	63.500	3.3	3.3	Replaces XR678050 assembled with XR678002 rollers
	4	13.0000	18.0000	2.5000	0.13	0.13	
*XR678053	4	330.200	457.200	63.500	3.3	3.3	Replaces XR678051 assembled with XR678002 rollers
	4	13.0000	18.0000	2.5000	0.13	0.13	
JXR678054	3	300.000	480.000	60.000	3.0	1.5	
	3	11.8110	18.8976	2.3622	0.12	0.06	
JXR699050	4	370.000	495.000	50.000	3.0	3.0	
	4	14.5669	19.4882	1.9685	0.12	0.12	
XR736052	1	432.003	571.500	38.100	3.3	3.3	
	1	17.0080	22.5000	1.5000	0.13	0.13	
*XR766051	4	457.200	609.600	63.500	3.3	3.3	Replaces XR766050 assembled with XR766002 rollers & K115353 roller ext.
	4	18.0000	24.0000	2.5000	0.13	0.13	
XR766052	4	424.950	614.924	65.000	CH	CH	
	4	16.7303	24.2096	2.5591	CH	CH	
*XR766053	4	457.200	609.600	63.500	3.3	3.3	As XR766051 but with holes in outer ring
	4	18.0000	24.0000	2.5000	0.13	0.13	
XR820060	4	580.000	760.000	80.000	6.4	6.4	
	4	22.8346	29.9213	3.1496	0.25	0.25	

CROSSED ROLLER BEARINGS CONTINUED ON NEXT PAGE

\*See Remarks Column.

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CROSSED ROLLER BEARING



BEARING NUMBER	FIG NO	Bore d	OD D	Cone Max SHAFT Width T	CUP Max SHAFT FILLET RADIUS R	FILLET RADIUS r	Remarks
*XR820061	1	580.000	760.000	80.000	6.4	6.4	Replaces XR820053, 56, & 57
	1	22.8346	29.9213	3.1496	0.25	0.25	
*XR820067	1	580.000	760.000	80.000	6.4	6.4	Replaces XR820055 & 58
	1	22.8346	29.9213	3.1496	0.25	0.25	
XR820068	1	580.000	760.000	80.000	6.4	6.4	
	1	22.8346	29.9213	3.1496	0.25	0.25	
XR836050	3	600.000	830.000	80.000	3.3	3.3	
	3	23.6220	32.6772	3.1496	0.13	0.13	
XRS844050	2	685.800	914.400	79.375	0.8	CH	
	2	29.3157	33.4446	1.3386	0.03	CH	
*XR855053	4	685.800	914.400	79.375	3.3	3.3	Replaces XR855051
	4	27.0000	36.0000	3.1250	0.13	0.13	
*XR855055	4	685.800	914.400	79.375	3.3	3.3	Replaces XR855050 & 52
	4	27.0000	36.0000	3.1250	0.13	0.13	
*XR855056	1	685.800	914.400	79.375	3.3	3.3	Assembled with phosphor bronze separators
	1	27.0000	36.0000	3.1250	0.13	0.13	
*XR882054	1	901.700	1117.600	82.550	3.3	3.3	Replaces XR882052
	1	35.5000	44.0000	3.2500	0.13	0.13	
*XR882055	4	901.700	1117.600	82.550	3.3	3.3	Replaces XR882053
	4	35.5000	44.0000	3.2500	0.13	0.13	
*XR882058	2	939.800	1117.600	82.550	3.3	3.3	Replaces XR882051
	2	37.0000	44.0000	3.2500	0.13	0.13	
*XR889058	1	1028.700	1327.150	114.300	3.3	3.3	
	1	40.5000	52.2500	4.5000	0.13	0.13	
*XR889059	1	1028.700	1327.150	95.250	3.3	3.3	Replaces XR889056
	1	40.5000	52.2500	3.7500	0.13	0.13	
*XR889060	3	1028.600	1327.050	114.300	3.3	3.3	Assembled with XR889002 rollers & K115357 roller extensions includes gear & flange ring Replaces XR889057
	3	40.4960	52.2460	4.5000	0.13	0.13	
*XR897051	4	1549.400	1828.800	101.600	3.3	3.3	Replaces XR897050
	4	61.0000	72.0000	4.0000	0.13	0.13	

\*See Remarks Column.

THRUST BEARINGS CONTINUED ON NEXT PAGE

# THRUST BEARINGS – TTSP

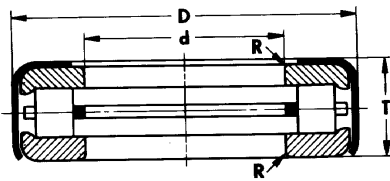


FIGURE 1

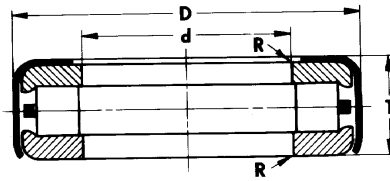


FIGURE 2

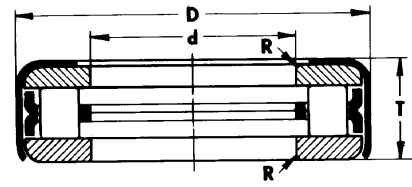


FIGURE 3

BEARING NUMBER		FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH t	SHAFT FILLET RADIUS R	MASS kg (lb)	REMARKS
NO OIL HOLES IN RETAINER	OIL HOLES IN RETAINER							
T63	T63W	1	16.129	41.275	12.700	0.8	0.08	
		1	0.6350	1.6250	0.5000	0.03	0.18	
T76	T76W	1	19.304	41.275	13.487	0.8	0.08	
		1	0.7600	1.6250	0.5310	0.03	0.18	
T77	T77W	1	19.304	41.275	12.700	0.8	0.07	
		1	0.7600	1.6250	0.5000	0.03	0.15	
T82	T82W	1	20.879	41.275	13.487	0.8	0.07	
		1	0.8220	1.6250	0.5310	0.03	0.15	
T86		1	20.257	39.688	14.288	1.3	0.07	
		1	0.7975	1.5625	0.5625	0.05	0.15	
T88	T88W	1	22.479	48.021	15.088	0.8	0.11	
		1	0.8850	1.8906	0.5940	0.03	0.24	
T89		1	22.479	48.021	15.875	0.8	0.12	
		1	0.8850	1.8906	0.6250	0.03	0.26	
*T92		2	23.825	44.958	13.487	0.8	-	T92 HAS 2 BORES, OTHER BORE =24.054 mm (.9470"), R = .08 mm (.03").
		2	0.9380	1.7700	0.5310	0.03	-	
T93		2	24.054	44.958	13.487	0.8	0.09	
		2	0.9470	1.7700	0.5310	0.03	0.20	
T94	T94W	1	24.054	48.021	15.088	0.8	0.11	
		1	0.9470	1.8906	0.5940	0.03	0.24	
T95	T95W	1	24.130	50.800	15.875	0.8	0.13	
		1	0.9500	2.0000	0.6250	0.03	0.29	
T101	T101W	1	25.654	50.800	15.875	0.8	0.13	
		1	1.0100	2.0000	0.6250	0.03	0.29	
*T101X		1	25.146	50.800	15.875	0.8	-	T101X HAS 2 BORES, OTHER BORE =24.654 mm (1.0100").
		1	0.9900	2.0000	0.6250	0.03	-	
*T102		1	25.654	50.800	16.916	0.8	-	T102 HAS EXTENDED RETAINER, RETAINER "C" DIMENSION - 20.384 mm (.8025"). EXTENSION INSIDE DIAMETER = 35.052 mm (1.3800")
		1	1.0100	2.0000	0.6660	0.03	-	
T104	T104W	1	26.289	50.800	15.875	0.8	0.13	
		1	1.0350	2.0000	0.6250	0.03	0.29	
*T105		1	25.654	50.800	15.875	0.8	-	T105 HAS 2 BORES, OTHER BORE = 27.299mm (1.0720").
		1	1.0100	2.0000	0.6250	0.03	-	
T107	T107W	1	27.299	50.800	15.875	0.8	0.12	
		1	1.0720	2.0000	0.6250	0.03	0.26	
T110	T110W	1	28.829	53.188	15.875	0.8	0.14	
		1	1.1350	2.0940	0.6250	0.03	0.31	
T113	T113W	1	28.829	55.562	15.875	0.8	0.15	
		1	1.1350	2.1875	0.6250	0.03	0.33	
*T114	*T114W	1	25.654	55.562	15.875	0.8	-	T114 AND T114W HAVE 2 BORES, OTHER BORE = 28.829 mm (1.1350").
		1	1.0100	2.1875	0.6250	0.03	-	
*T114X		2	28.829	50.800	15.875	0.8	-	T114X HAS 2 CAGES AND 2 BORES, OTHER BORE = 29.261 mm (1.1520").
		2	1.1350	2.0000	0.6250	0.03	-	
T119	T119W	1	30.416	55.562	15.875	0.8	0.15	
		1	1.1975	2.1875	0.6250	0.03	0.33	
T120		2	30.416	54.745	11.430	0.8	0.11	
		2	1.1975	2.1553	0.4500	0.03	0.24	
T121		1	30.716	55.562	15.875	0.8	0.16	
		1	1.2093	2.1875	0.6250	0.03	0.35	

T126 SERIES CONTINUED ON NEXT PAGE

These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

11

THRUST BEARINGS - TTSP

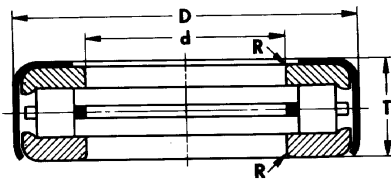


FIGURE 1

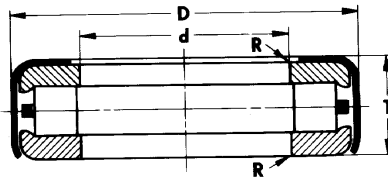


FIGURE 2

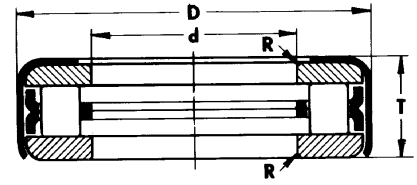


FIGURE 3

BEARING NUMBER		FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH t	SHAFT FILLET RADIUS R	MASS kg (lb)	REMARKS
NO OIL HOLES IN RETAINER	OIL HOLES IN RETAINER							
T126	T126W	1	32.004	55.562	15.875	0.8	0.14	
		1	1.2600	2.1875	0.6250	0.03	0.31	
*T126A	T126AW	1	32.004	55.562	15.875	0.8	0.14	T126A - 2 CAGES
		1	1.2600	2.1875	0.6250	0.03	0.31	
T139	T139W	1	35.179	58.738	15.875	0.8	0.15	RACES ARE CADMIUM PLATED.
		1	1.3850	2.3125	0.6250	0.03	0.33	
*T139KP		1	35.179	58.738	15.875	0.8	0.15	
		1	1.3850	2.3125	0.6250	0.03	0.33	
T142	T142W	1	35.179	62.708	19.431	0.8	0.23	
		1	1.3850	2.4688	0.7650	0.03	0.51	
T149	T149W	1	38.303	65.883	19.431	0.8	0.24	
		1	1.5080	2.5938	0.7650	0.03	0.53	
T158		1	40.234	65.883	19.431	0.8	0.23	
		1	1.5840	2.5938	0.7650	0.03	0.51	
T199	T199W	1	51.054	74.612	15.875	0.8	0.20	
		1	2.0100	2.9375	0.6250	0.03	0.44	
T309	T309W	1	78.583	102.395	15.875	0.8	0.29	
		1	3.0938	4.0313	0.6250	0.03	0.64	
T387	T387W	1	96.425	127.000	17.463	0.8	0.50	
		1	3.8750	5.0000	0.7650	0.03	1.10	
T484		1	123.012	152.400	17.463	0.8	0.63	
		1	4.8430	6.0000	0.6875	0.03	1.39	
T581		1	147.638	177.800	17.463	0.8	0.89	
		1	5.8125	7.0000	0.6875	0.03	1.96	
T1760		3	44.623	76.200	10.922	0.8	0.18	
		3	1.7568	3.0000	0.4300	0.03	0.4	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

T127 SERIES CONTINUED ON NEXT PAGE



# THRUST BEARINGS – TTC and TTCS

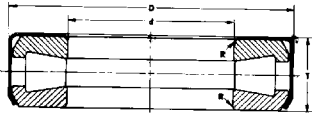


FIGURE 1



FIGURE 2

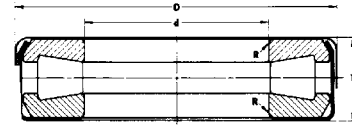


FIGURE 3

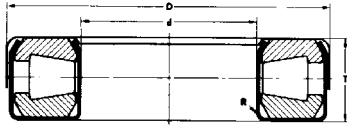


FIGURE 4

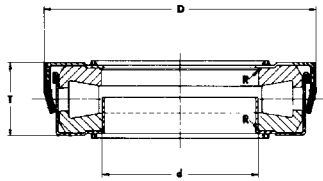


FIGURE 5

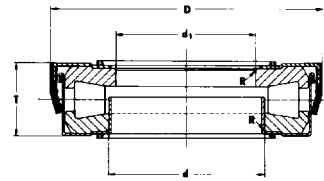


FIGURE 6

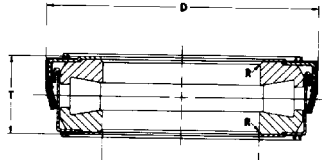


FIGURE 7

BEARING NUMBER		FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH t	SHAFT FILLET RADIUS R	MASS kg (lb)	REMARKS
NO OIL HOLES IN RETAINER	OIL HOLES IN RETAINER							
T127	T127W	1	32.004	66.675	19.446	0.8	0.31	
		1	1.2600	2.6250	0.7656	0.03	0.68	
T128		2	32.004	66.675	18.654	0.8	0.29	
		2	1.2600	2.6250	0.7344	0.03	0.64	
T130		1	27.102	66.675	19.446	0.8	0.34	
		1	1.0670	2.6250	0.7656	0.03	0.75	
T136		2	35.179	66.675	18.654	0.8	0.28	
		2	1.3850	2.6250	0.7344	0.03	0.62	
T138	T138W	1	35.179	66.675	19.446	0.8	0.30	
		1	1.3850	2.6250	0.7656	0.03	0.66	
*T138XS		SPCL	35.179	66.675	19.446	0.8	-	T138XS HAS 2 BORES, OTHER BORE = 35.387mm (1.3972")
			1.3850	2.6250	0.7656	0.03	-	
T144	T144W	1	36.754	66.675	19.446	1.5	0.29	
		1	1.4470	2.6250	0.7656	0.06	0.64	
*T144XA		SPCL	36.754	66.675	19.446	1.5	-	T144XA HAS 2 BORES, OTHER BORE = 37.137mm (1.4621")
			1.4470	2.6250	0.7656	0.06	-	
T151	T151W	1	38.354	72.619	21.433	0.8	0.37	
		1	1.5100	2.8590	0.8438	0.03	0.82	
T151X		1	38.354	69.444	20.726	0.8	0.37	
		1	1.5100	2.7340	0.8160	0.03	0.82	
T152		2	38.354	72.619	20.638	0.8	0.35	
		2	1.5100	2.8590	0.8125	0.03	0.77	
T157	T157W	1	39.954	72.619	21.433	0.8	0.37	
		1	1.5730	2.8590	0.8438	0.03	0.82	
T163	T163W	1	41.529	72.619	21.433	0.8	0.35	
		1	1.6350	2.8590	0.8438	0.03	0.77	
T163X	T163XW	1	41.529	72.619	21.433	2.0	0.35	
		1	1.6350	2.8590	0.8438	0.80	0.77	
T169	T169W	1	43.104	82.956	23.812	0.8	0.55	
		1	1.6970	3.2660	0.9375	0.03	1.21	
T176	T176W	1	44.704	82.956	23.812	0.8	0.54	
		1	1.7600	3.2660	0.9375	0.03	1.19	
T177		1	45.000	73.000	20.000	0.8	0.32	
		1	1.7717	2.8740	0.7874	0.03	0.71	
T177A		1	45.484	73.000	20.000	0.8	0.33	
		1	1.7907	2.8740	0.7874	0.03	0.73	
*T177XA		SPCL	45.000	73.127	20.000	0.8	-	T177XA HAS 2 BORES, OTHER BORE = 45.484mm (1.7907")
			1.7717	2.8790	0.7874	0.03	-	
T177S		5	45.000	74.500	20.221	0.8	0.35	
		5	1.7717	2.9331	0.7961	0.03	0.77	
T178		1	40.401	73.000	19.000	0.8	-	
		1	1.5906	2.8740	0.7480	0.03	-	
T182	T182W	1	46.279	82.956	23.812	0.8	0.52	
		1	1.8220	3.2660	0.9375	0.03	1.15	

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THRUST BEARINGS – TTC and TTCS

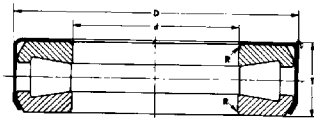


FIGURE 1



FIGURE 2

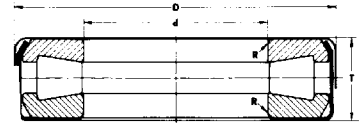


FIGURE 3



FIGURE 4

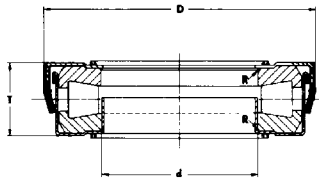


FIGURE 5

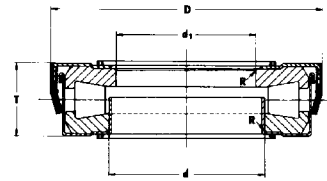


FIGURE 6

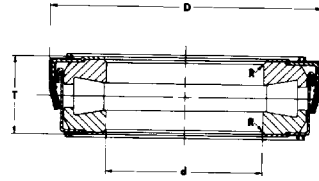


FIGURE 7

BEARING NUMBER		FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH t	SHAFT FILLET RADIUS R	MASS kg (lb)	REMARKS
NO OIL HOLES IN RETAINER	OIL HOLES IN RETAINER							
T188	T188W	1	47.879	82.956	23.812	0.8	0.52	
		1	1.8850	3.2660	0.9375	0.03	1.15	
T188X		4	47.879	83.774	24.130	2.3	-	
		4	1.8850	3.2970	0.9500	0.09	-	
T189	T189W	2	47.879	82.956	23.020	0.8	0.50	
		2	1.8850	3.2660	0.9063	0.03	1.10	
T193	T193W	2	49.454	93.269	26.187	0.8	0.80	
		2	1.9470	3.6720	1.0310	0.03	1.76	
T194	T194W	1	49.454	93.269	26.975	0.8	0.81	
		1	1.9470	3.6720	1.0620	0.03	1.79	
T201	T201W	2	51.054	93.269	26.187	3.3	0.77	
		2	2.0100	3.6720	1.0310	0.13	1.70	
T202	T202W	1	51.054	93.269	26.975	3.3	0.80	
		1	2.0100	3.6720	1.0620	0.13	1.76	
T208	T208W	1	52.629	93.269	26.975	0.8	0.79	
		1	2.0720	3.6720	1.0620	0.03	1.74	
T209	T209W	2	52.629	93.269	26.187	0.8	0.75	
		2	2.0720	3.6720	1.0310	0.03	1.65	
T251	T251W	1	63.754	111.125	26.988	0.8	1.07	
		1	2.5100	4.3750	1.0625	0.03	2.36	
T252	T252W	2	63.754	111.125	25.796	0.8	1.07	
		2	2.5100	4.3750	1.0156	0.03	2.23	
T301	T301W	2	76.454	133.350	33.338	2.3	1.87	
		2	3.0100	5.2500	1.3125	0.09	4.12	
		2	76.454	133.350	33.338	2.3	-	
T302	T302W	2	76.454	133.350	33.338	2.3	-	
		2	3.0100	5.2500	1.3125	0.09	-	
		1	76.454	133.350	34.925	2.3	1.99	
T350		2	88.900	133.350	33.335	2.8	1.41	
		2	3.5000	5.2500	1.3124	0.11	3.11	
T402	T402W	2	102.108	179.619	44.450	1.5	4.84	
		2	4.0200	7.0716	1.7500	0.06	10.67	
T600	T600W	1	152.400	241.300	76.200	3.3	14.10	
		1	8.0000	9.5000	3.0000	0.13	31.09	
T1260	T1260W	1	32.004	55.562	15.875	0.8	0.17	
		1	1.2600	2.1875	0.6250	0.03	0.37	
*T1380		SPCL	35.179	59.400	15.875	0.8	0.35	2 PIECE SEAL
		SPCL	1.3850	2.3386	0.6250	0.03	0.77	
T1921		1	46.279	80.010	15.977	0.8	0.34	
		1	1.8220	3.1500	0.6290	0.03	0.75	
T4020		2	102.108	179.619	31.750	1.5	3.7	
		2	4.0200	7.0716	1.2500	0.06	8.16	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

11

# THRUST BEARINGS – TTHD

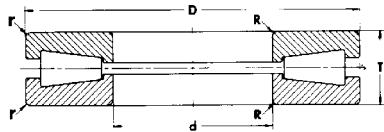


FIGURE 1

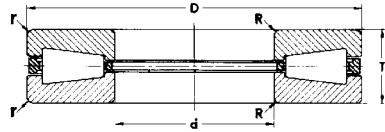


FIGURE 2

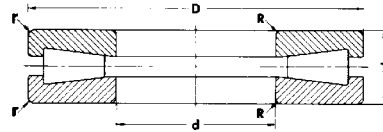


FIGURE 3

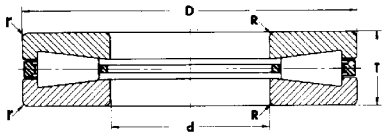


FIGURE 4

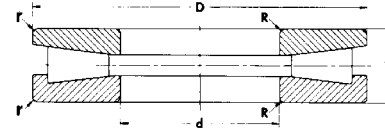


FIGURE 5

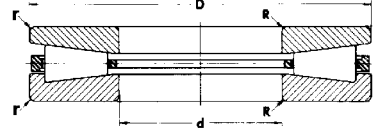


FIGURE 6

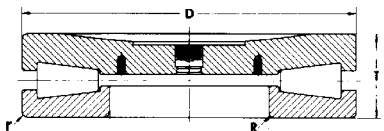


FIGURE 7

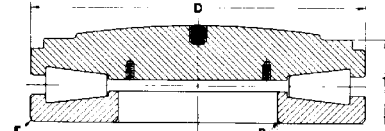


FIGURE 8

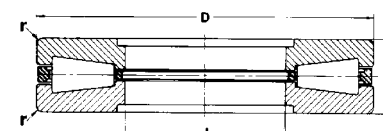


FIGURE 9



FIGURE 10

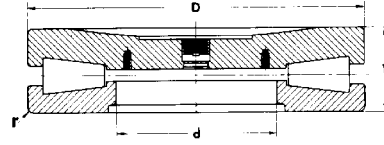


FIGURE 11

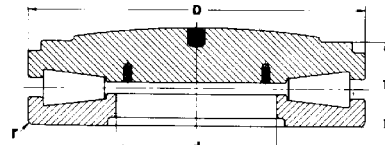


FIGURE 12

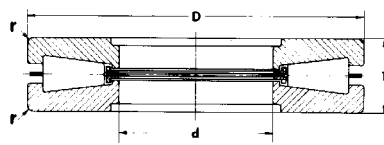


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T135	2	34.925	76.200	15.875	1.5	1.5	0.4	T311FS - T311S, SPHERICAL RADIUS = 457.200 mm (18")
	2	1.3750	3.0000	0.6250	0.06	0.06	0.88	
T135F	1	34.925	76.200	15.875	1.5	1.5	0.4	
	1	1.3750	3.0000	0.6250	0.06	0.06	0.88	
T200A	2	50.800	109.538	22.225	2.3	2.3	1.1	
	2	2.0000	4.3125	0.8750	0.09	0.09	2.40	
T311	2	76.200	161.925	33.338	3.3	3.3	3.6	
	2	3.0000	6.3750	1.3215	0.13	0.13	8.02	
T311F	1	76.200	161.925	33.338	3.3	3.3	3.6	
	1	3.0000	6.3750	1.3215	0.13	0.13	8.02	
*T311FS - T311S	8	76.200	161.925	49.212	3.3	3.3	-	
	8	3.0000	6.3750	1.9375	0.13	0.13	-	
T411	2	101.600	215.900	46.038	3.3	3.3	8.9	
	2	4.0000	8.5000	1.8125	0.13	0.13	19.60	
T411F	1	101.600	215.900	46.038	3.3	3.3	8.9	
	1	4.0000	8.5000	1.8125	0.13	0.13	19.60	
*T411FAS - T411S	8	76.200	215.900	65.088	3.3	3.3	-	
	8	3.0000	8.5000	2.5625	0.13	0.13	-	
T441	2	111.760	223.520	55.880	3.3	3.3	11.4	
	2	4.4000	8.8000	2.2000	0.13	0.13	25.13	
T441F	1	111.760	223.520	55.880	3.3	3.3	11.4	
	1	4.4000	8.8000	2.2000	0.13	0.13	25.13	
T451	2	114.300	250.825	53.975	4.0	4.0	15.0	
	2	4.5000	9.8750	2.1250	0.16	0.16	33.07	
T511	2	127.000	266.700	58.738	4.8	4.8	17.8	
	2	5.0000	10.5000	2.3125	0.19	0.19	39.24	
T511A	2	128.588	266.700	58.738	4.8	4.8	17.8	
	2	5.0625	10.5000	2.3125	0.19	0.19	39.24	

T511F SERIES CONTINUED ON NEXT PAGE

\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

# THRUST BEARINGS - TTHD

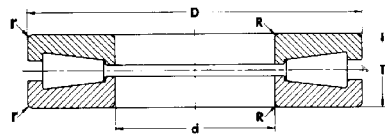


FIGURE 1

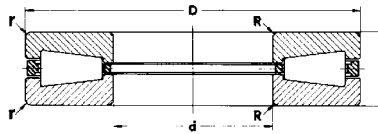


FIGURE 2

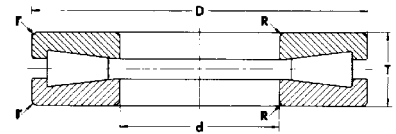


FIGURE 3



FIGURE 4

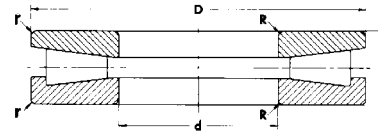


FIGURE 5

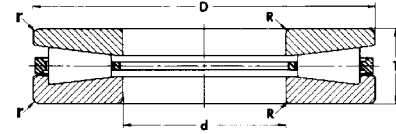


FIGURE 6

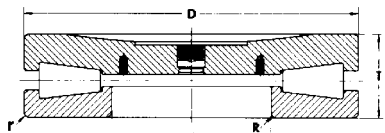


FIGURE 7

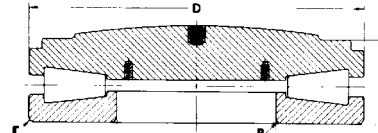


FIGURE 8

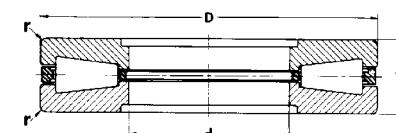


FIGURE 9

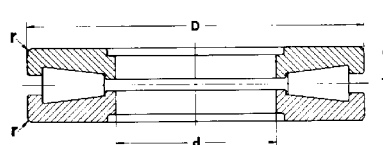


FIGURE 10

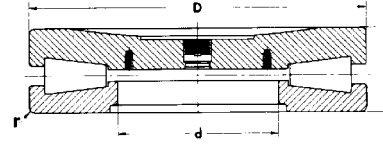


FIGURE 11

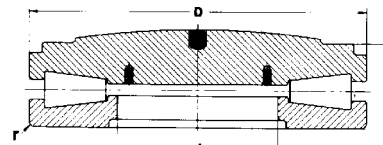


FIGURE 12

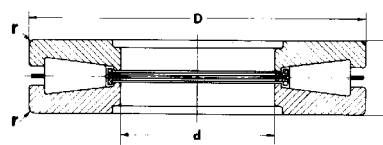


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T511F	1	127.000	266.700	58.738	4.8	4.8	17.8	
	1	5.0000	10.5000	2.3125	0.19	0.19	39.24	
*T511FS - T511S	8	127.000	266.700	79.375	4.8	4.8	-	T511FS - T511S, SPHERICAL RADIUS = 609.600 mm (24")
	8	5.0000	10.5000	3.1250	0.19	0.19	-	
*T511FSA - T511S	8	101.600	266.700	79.375	4.8	4.8	-	T511FSA - T511S, SPHERICAL RADIUS = 609.600 mm (24")
	8	4.0000	10.5000	3.1250	0.19	0.19	-	
*T511FSA - T511SA	7	101.600	266.700	79.375	4.8	4.8	-	T511FSA - T511SA, SPHERICAL RADIUS = 609.600 mm (24")
	7	4.0000	10.5000	3.1250	0.19	0.19	-	
T520	2	127.000	250.825	55.563	4.8	4.8	13.9	
	2	5.0000	9.8750	2.1875	0.19	0.19	30.64	
T611	2	152.400	317.500	69.850	6.4	6.4	29.3	
	2	6.0000	12.5000	2.7500	0.25	0.25	64.60	
T611F	1	152.400	317.500	69.850	6.4	6.4	29.3	
	1	6.0000	12.5000	2.7500	0.25	0.25	64.60	
*T611FS - T611S	8	152.400	317.500	87.313	6.4	6.4	-	T611FS - T611S, SPHERICAL RADIUS = 711.200 mm (28")
	8	6.0000	12.5000	3.4375	0.25	0.25	-	
*T611FS - T611SA	8	152.400	317.500	87.313	6.4	6.4	-	T611FS - T611SA, SPHERICAL RADIUS = 762.000 mm (30")
	8	6.0000	12.5000	3.4375	0.25	0.25	-	
*T611FSA - T611SA	7	SOLID	317.500	87.313	N/A	6.4	-	T611FSA - T611SA, SPHERICAL RADIUS = 762.000 mm (30")
	7		12.5000	3.4375	N/A	0.25	-	
*T611FS - T611SB	8	152.400	317.500	87.313	6.4	6.4	-	T611FS - T611SB, SPHERICAL RADIUS = 755.700 mm (29.75")
	8	6.0000	12.5000	3.4375	0.25	0.25	-	
T651	2	165.100	311.150	88.900	6.4	6.4	38.3	
	2	6.5000	12.2500	3.5000	0.25	0.25	84.44	
T661	2	168.275	304.800	69.850	6.4	6.4	27.8	
	2	6.6250	12.0000	2.7500	0.25	0.25	61.29	
T691	2	174.625	358.775	82.550	6.4	6.4	45.3	
	2	6.8750	14.1250	3.2500	0.25	0.25	99.87	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.

\*See Remarks Column.

T709 SERIES CONTINUED ON NEXT PAGE

11

# THRUST BEARINGS - TTHD



FIGURE 1

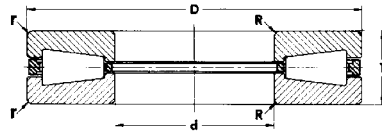


FIGURE 2



FIGURE 3



FIGURE 4

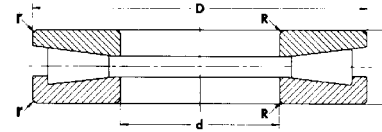


FIGURE 5

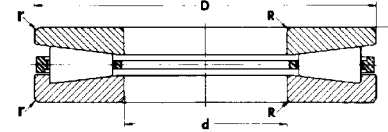


FIGURE 6

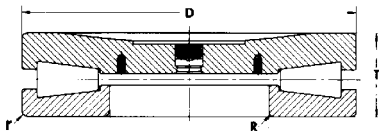


FIGURE 7

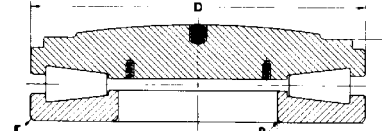


FIGURE 8

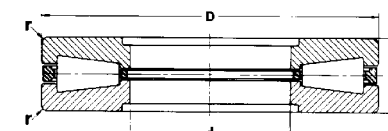


FIGURE 9

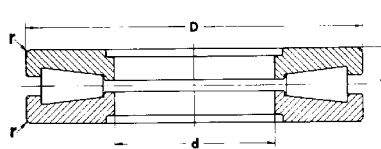


FIGURE 10

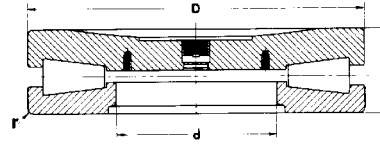


FIGURE 11

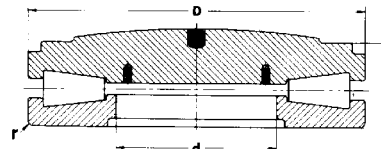


FIGURE 12

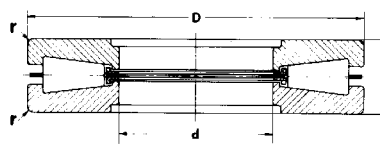


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T709	4	177.800	431.800	101.600	6.4	6.4	86.3	
	4	7.0000	17.0000	4.0000	0.25	0.25	190.26	
T711	2	177.800	368.300	82.550	8.0	8.0	48.4	
	2	7.0000	14.5000	3.2500	0.31	0.31	106.70	
T711F	1	177.800	368.300	82.550	8.0	8.0	48.4	
	1	7.0000	14.5000	3.2500	0.31	0.31	106.70	
T711FS - T711S	7	177.800	368.300	104.775	8.0	8.0	-	
	7	7.0000	14.5000	4.1250	0.31	0.31	-	
*T711FS - T711SA	8	177.800	368.300	101.600	8.0	8.0	-	T711FS - T711SA, SPHERICAL RADIUS = 762.000 mm (30")
	8	7.0000	14.5000	4.0000	0.31	0.31	-	
*T711FSS - T711S	7	SOLID	368.300	104.775	N/A	8.0	-	T711FSS - T711S, SPHERICAL RADIUS = 622.300 mm (24.5")
	7		14.5000	4.1250	N/A	0.31	-	
T811	2	203.200	419.100	92.075	9.7	9.7	69.3	
	2	8.0000	16.5000	3.6250	0.38	0.38	152.78	
T811F	1	203.200	419.100	92.075	9.7	9.7	69.3	
	1	8.0000	16.5000	3.6250	0.38	0.38	152.78	
*T811FS - T811S	7	203.200	419.100	123.825	9.7	9.7	-	T811FS - T811S, SPHERICAL RADIUS = 508.000 mm (20")
	7	8.0000	16.5000	4.8750	0.38	0.38	-	
*T811FS - T811SA	8	203.200	422.275	115.880	9.7	9.7	-	T811FS - T811SA, SPHERICAL RADIUS = 838.200 mm (33"), LOWER RACE OD = 419.100 mm (16.5000")
	8	8.0000	16.6250	4.5625	0.38	0.38	-	
*T811FSA - T811SB	7	SOLID	422.275	120.650	N/A	9.7	-	T811FSA - T811SB, SPHERICAL RADIUS = 506.000 mm (20"), LOWER RACE OD = 419.100 mm (16.5000")
	7		16.6250	4.7500	N/A	0.38	-	
T811X	2	203.200	419.100	120.650	9.7	9.7	92.7	
	2	8.0000	16.5000	4.7500	0.38	0.38	204.37	
*T811 - T811XA	2	203.200	419.100	106.363	9.7	9.7	-	T811 - T811XA, 2 BORES, OTHER BORE = 201.613 mm (7.9375")
	2	8.0000	16.5000	4.1875	0.38	0.38	-	

T911 SERIES CONTINUED ON NEXT PAGE

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

11

# THRUST BEARINGS - TTHD

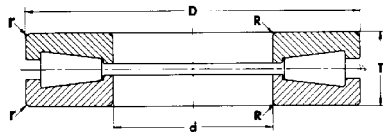


FIGURE 1

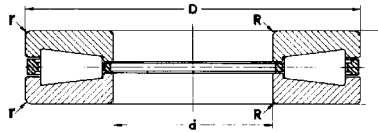


FIGURE 2

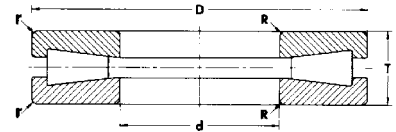


FIGURE 3



FIGURE 4

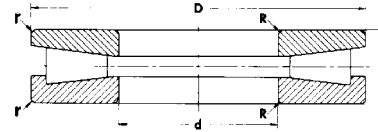


FIGURE 5

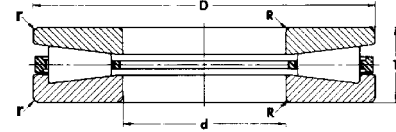


FIGURE 6

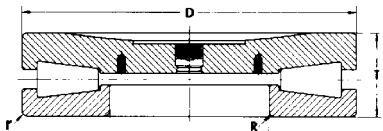


FIGURE 7

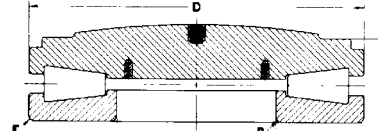


FIGURE 8

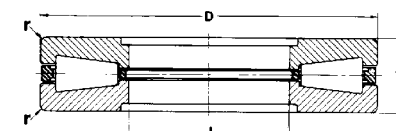


FIGURE 9

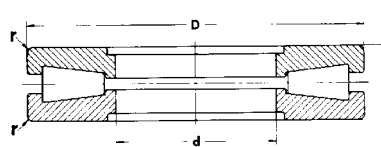


FIGURE 10

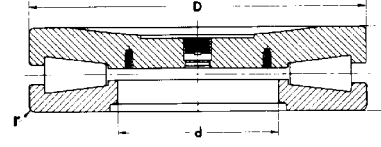


FIGURE 11

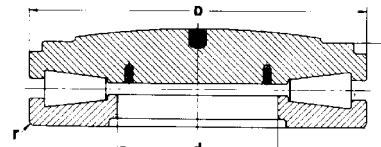


FIGURE 12

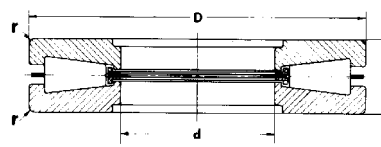


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T911	9	228.600	482.600	104.775	N/A	11.2	105.0	T911 - T911A, 2 BORES, OTHER BORE = 234.950 mm (9.2500") T911FS - T911S, SPHERICAL RADIUS = 635.000 mm (25") T911FS - T911SA, SPHERICAL RADIUS = 1295.400 mm (51") T911FS - T911SB, SPHERICAL RADIUS = 895.350 mm (35.25")  T1011FS - T1011S, SPHERICAL RADIUS = 1066.8 mm (42") T1011FS - T1011SA, SPHERICAL RADIUS = 635.000 mm (25") T1011FS - T1011SC, SPHERICAL RADIUS = 635.000 mm (25")
	9	9.0000	19.0000	4.1250	N/A	0.44	231.49	
T911A	9	234.950	482.600	104.775	N/A	11.2	103.0	
	9	9.2500	19.0000	4.1250	N/A	0.44	227.08	
T911F	10	228.600	482.600	104.775	N/A	11.2	-	
	10	9.0000	19.0000	4.1250	N/A	0.44	-	
*T911 - T911A	9	228.600	482.600	104.775	N/A	11.2	-	
*T911FS - T911S	9	9.0000	19.0000	4.1250	N/A	0.44	-	
	11	228.600	482.600	146.050	N/A	11.2	-	
*T911FS - T911SA	11	9.0000	19.0000	5.7500	N/A	0.44	-	
	12	228.600	482.600	131.763	N/A	11.2	-	
*T911FS - T911SB	12	9.0000	19.0000	5.1875	N/A	0.44	-	
	12	228.600	482.600	114.300	N/A	11.2	-	
T921	9	234.950	546.100	127.000	N/A	16.0	171.0	
	9	9.2500	21.5000	5.0000	N/A	0.63	376.99	
T921F	10	234.950	546.100	127.000	N/A	16.0	171.0	
	10	9.2500	21.5000	5.0000	N/A	0.63	376.99	
T1011	9	254.000	539.750	117.475	N/A	11.2	147.0	
	9	10.0000	21.2500	4.6250	N/A	0.44	324.08	
*T1011FS - T1011S	12	254.000	539.750	149.225	N/A	11.2	-	
	12	10.0000	21.2500	5.8750	N/A	0.44	-	
*T1011FS - T1011SA	11	254.000	539.750	158.750	N/A	11.2	-	
	11	10.0000	21.2500	6.2500	N/A	0.44	-	
*T1011FS - T1011SC	11	254.000	539.750	158.750	N/A	11.2	-	
	11	10.0000	21.2500	6.2500	N/A	0.44	-	
T1115	9	279.400	495.300	133.350	N/A	6.4	125.0	
	9	11.0000	19.5000	5.2500	N/A	0.25	275.58	

\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.

\*See Remarks Column.

T1120 SERIES CONTINUED ON NEXT PAGE

11

# THRUST BEARINGS – TTHD



FIGURE 1

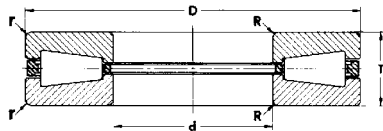


FIGURE 2



FIGURE 3



FIGURE 4

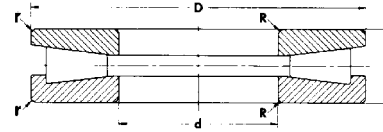


FIGURE 5

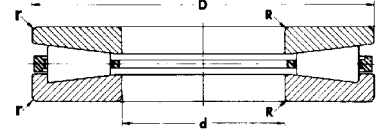


FIGURE 6

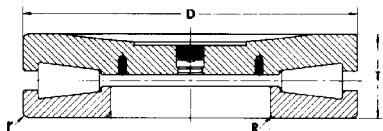


FIGURE 7

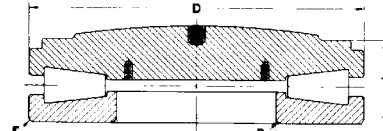


FIGURE 8

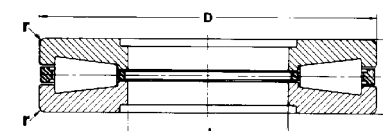


FIGURE 9

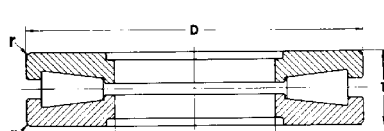


FIGURE 10

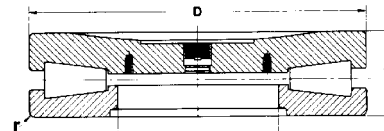


FIGURE 11

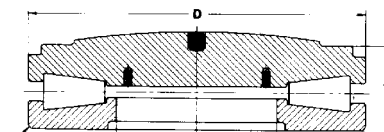


FIGURE 12

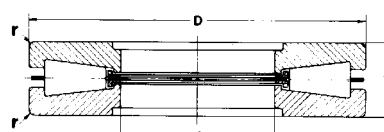


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T1120	9	279.400	603.250	136.525	N/A	11.2	212.0	T1120FS - T1120S, SPHERICAL RADIUS = 1308.1 mm (51.5")
	9	11.0000	23.7500	5.3750	N/A	0.44	467.38	
T1120F	10	279.400	603.250	136.525	N/A	11.2	212.0	
	10	11.0000	23.7500	5.3750	N/A	0.44	467.38	
*T1120FS - T1120S	12	279.400	603.250	136.525	N/A	11.2	-	
	12	11.0000	23.7500	5.3750	N/A	0.44	-	
T1421	9	355.600	533.400	101.600	N/A	6.4	84.1	
	9	14.0000	21.0000	4.0000	N/A	0.25	185.41	
T1421F	10	355.600	533.400	101.600	N/A	6.4	84.1	
	10	14.0000	21.0000	4.0000	N/A	0.25	185.41	
T1750	2	44.450	84.734	18.258	2.3	2.3	0.5	
	2	1.7500	3.3360	0.7188	0.09	0.09	1.08	
T2520	2	63.500	117.475	25.400	2.3	2.3	1.3	
	2	2.5000	4.6250	1.0000	0.09	0.09	2.95	
*T3004W	1	76.454	167.081	44.450	3.3	N/A	-	T3004W, RETAINER ON OD
	1	3.0100	6.5780	1.7500	0.13	N/A	-	
T7519	2	190.000	355.600	74.219	6.4	6.4	35.9	
	2	7.4803	14.0000	2.9220	0.25	0.25	79.15	
*T8920FA - T8920FB	11	168.275	638.175	152.400	N/A	11.0	-	NO SPHERICAL RADIUS
	11	6.6250	25.1250	6.0000	N/A	0.43	-	
T9020	9	228.600	431.800	88.773	N/A	9.7	65.7	
	9	9.0000	17.0000	3.4950	N/A	0.38	144.84	
*T9030FS - T9030S	7	SOLID	482.600	165.000	N/A	11.2	-	T9030FS - T9030S, SPHERICAL RADIUS = 635.000 mm (25")
	7		19.0000	6.5354	N/A	0.44	-	
*T9030FS - T9030SA	8	SOLID	482.600	150.622	N/A	11.2	-	T9030FS - T9030SA, SPHERICAL RADIUS = 1295.400 mm (51")
	8		19.0000	5.9300	N/A	0.44	-	
*T9030FSA - T9030SA	12	168.275	482.600	131.763	N/A	11.2	-	T9030FSA - T9030SA, SPHERICAL RADIUS = 1295.400 mm (51")
	12	6.6250	19.0000	5.1875	N/A	0.44	-	

T9030FSA SERIES CONTINUED ON NEXT PAGE

\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.



# THRUST BEARINGS - TTHD

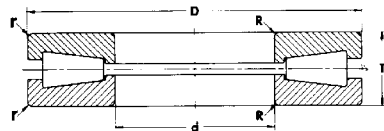


FIGURE 1

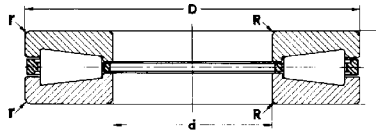


FIGURE 2

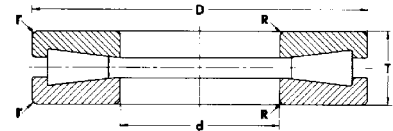


FIGURE 3

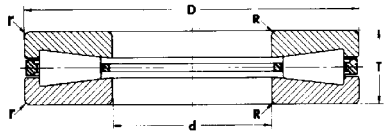


FIGURE 4

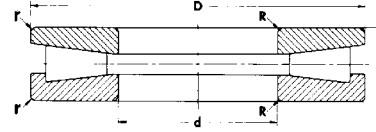


FIGURE 5

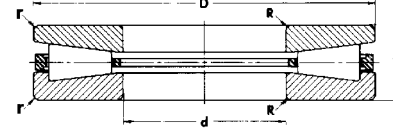


FIGURE 6

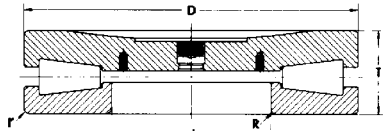


FIGURE 7

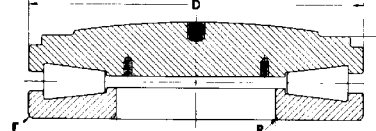


FIGURE 8

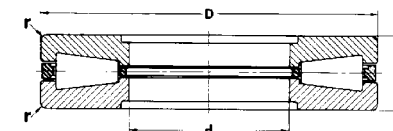


FIGURE 9

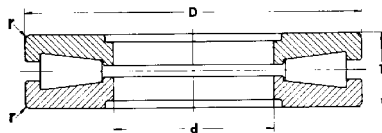


FIGURE 10

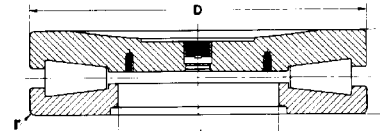


FIGURE 11

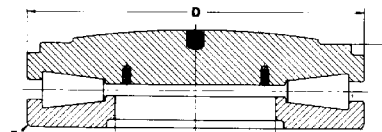


FIGURE 12

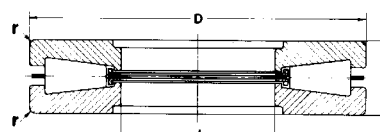


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
*T9030FSA - T9030SB	12	168.275	482.600	131.763	N/A	11.2	-	T9030FSA - T9030SB, SPHERICAL RADIUS = 1066.800 mm (42")
	12	6.6250	19.0000	5.1875	N/A	0.44	-	
T9250F	10	234.950	546.100	127.000	N/A	16.0	-	
	10	9.2500	21.5000	5.0000	N/A	0.63	-	
T9250FA	10	139.700	546.100	127.000	N/A	16.0	-	
	10	5.5000	21.5000	5.0000	N/A	0.63	-	
*T9250FAS - T9250SA	12	139.700	549.275	155.575	N/A	16.0	-	T9250FAS - T9250SA, SPHERICAL RADIUS = 1295.400 mm (51")
	12	5.5000	21.6250	6.1250	N/A	0.63	-	
*T9250FAS - T9250SC	12	139.700	549.275	155.575	N/A	16.0	-	T9250FAS - T9250SC, SPHERICAL RADIUS = 1295.400 mm (51")
	12	5.5000	21.6250	6.1250	N/A	0.63	-	
*T9250FS - T9250S	11	234.950	546.100	168.275	N/A	16.0	-	T9250FS - T9250S, SPHERICAL RADIUS = 641.350 mm (25.25")
	11	9.2500	21.5000	6.6250	N/A	0.63	-	
*T9250FS - T9250SA	12	234.950	549.275	155.575	N/A	16.0	-	T9250FS - T9250SA, SPHERICAL RADIUS = 1295.400 mm (51")
	12	9.2500	21.6250	6.1250	N/A	0.63	-	
*T9250FS - T9250SB	11	234.950	546.100	171.450	N/A	16.0	-	T9250FS - T9250SB, SPHERICAL RADIUS = 558.800 mm (22")
	11	9.2500	21.5000	6.7500	N/A	0.63	-	
*T12040FS - T12040S	12	304.800	1146.175	317.500	N/A	19.0	-	T12040FS - T12040S, SPHERICAL RADIUS = 2000.250 mm (78.75"), LOWER RACE OD = 1143.000 mm (45.0000")
	12	12.0000	45.1250	12.5000	N/A	0.75	-	
*T14214	13	355.600	533.400	101.600	N/A	6.4	-	T14214, 2 BORES, OTHER BORE = 355.961 mm (14.0150")
	13	14.0000	21.0000	4.0000	N/A	0.25	-	
T14520	9	368.300	603.300	120.650	N/A	9.7	144.0	
	9	14.5000	23.7500	4.7500	N/A	0.38	317.47	
T16021	9	406.400	711.200	146.050	N/A	9.7	264.0	
	9	16.0000	28.0000	5.7500	N/A	0.38	582.02	
T16021F	10	406.400	711.200	146.050	N/A	9.7	264.0	
	10	16.0000	28.0000	5.7500	N/A	0.38	582.02	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.

\*See Remarks Column.

T16050 SERIES CONTINUED ON NEXT PAGE

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# THRUST BEARINGS – TTHD

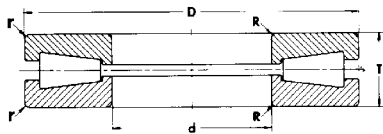


FIGURE 1

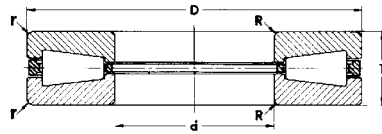


FIGURE 2

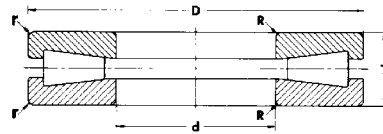


FIGURE 3

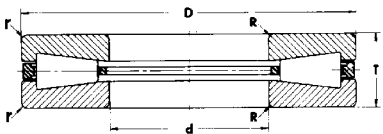


FIGURE 4

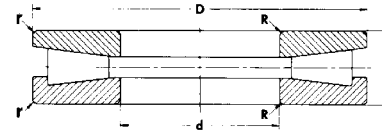


FIGURE 5

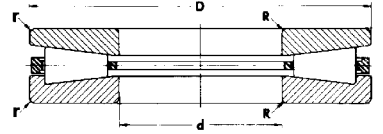


FIGURE 6

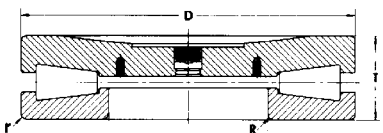


FIGURE 7

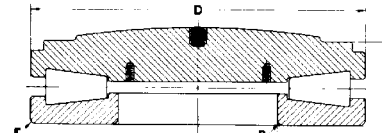


FIGURE 8

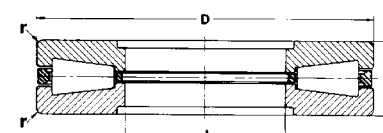


FIGURE 9



FIGURE 10

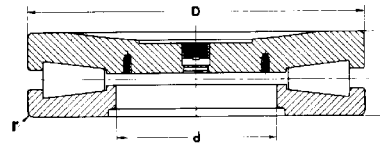


FIGURE 11

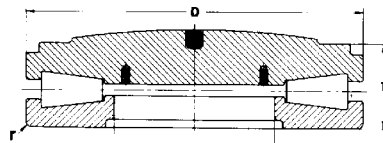


FIGURE 12

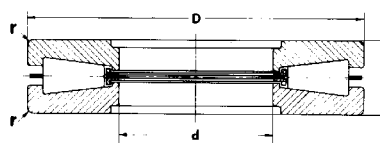
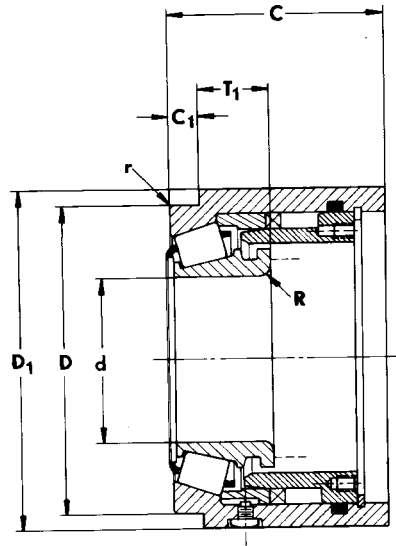


FIGURE 13

BEARING NUMBER	FIG NO.	BORE d	OUTSIDE DIAMETER D	WIDTH T	SHAFT FILLET RADIUS R	HOUSNG FILLET RADIUS r	MASS kg (lb)	REMARKS
T16050	9	406.400	838.200	177.800	N/A	12.7	517.0	
	9	16.0000	33.0000	7.0000	N/A	0.5	1139.79	
T17010FS - T17020S	12	431.800	942.975	260.350	N/A	12.7	-	
	12	17.0000	37.1250	10.2500	N/A	0.5	-	
T48000	9	1219.200	1524.000	136.525	N/A	9.7	596.0	
	9	48.0000	60.0000	5.3750	N/A	0.38	1313.95	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

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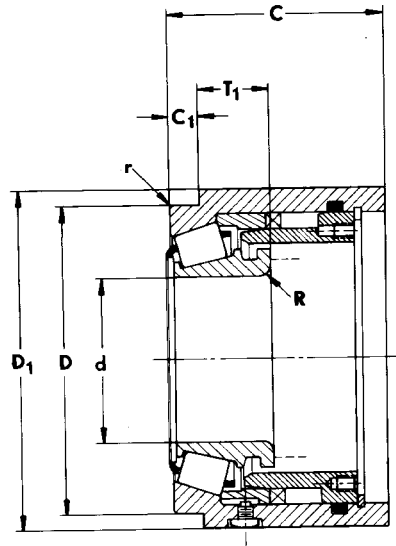


CONE			CUP					BEAR-ING	Remarks	
Number	BORE d	MAX SHAFT FILLET RAD R	Number	WIDTH C	MAX SHAFT FILLET RAD r	SEAT WIDTH D	SEAT DIA D	FLANGE DIA D1		WIDTH T
<b>JP5000</b>										
JP5049P	50.000 1.9685	3.0 0.12	JP5019HR	66.000 2.5984	1.0 0.04	15.000 0.5906	104.000 4.0945	103.500 4.0748	31.000 1.2205	
			JP5020HR	66.000 2.5984	1.0 0.04	15.000 0.5906	104.000 4.0945	103.175 4.0620	31.000 1.2205	
JP5049PH	50.000 1.9685	3.0 0.12	JP5017HR	66.000 2.5984	1.0 0.04	15.000 0.5906	104.000 4.0945	103.175 4.0620	31.000 1.2205	
			JP5020HR	66.000 2.5984	1.0 0.04	15.000 0.5906	104.000 4.0945	103.175 4.0620	31.000 1.2205	
<b>JP7500</b>										
JP7548P	75.000 2.9528	3.0 0.12	JP7520HR	65.000 2.5591	2.0 0.08	10.000 0.3937	122.000 4.8031	130.000 5.1181	22.000 0.8661	
JP7549P	75.000 2.9528	3.0 0.12	JP7519HR	65.000 2.5591	2.0 0.08	10.000 0.3937	122.000 4.8031	130.000 5.1181	22.000 0.8661	
<b>JP8500</b>										
JP8548	85.000 3.3465	3.0 0.12	JP8518HR	66.000 2.5984	2.0 0.08	10.000 0.3937	140.000 5.5118	148.000 5.8268	23.500 0.9252	
JP8549P	85.000 3.3465	3.0 0.12	JP8519HR	66.000 2.5984	2.0 0.08	10.000 0.3937	140.000 5.5118	148.000 5.8268	23.500 0.9252	
<b>JP10000</b>										
JP10048	95.000 3.7402	3.0 0.12	JP10019HR	70.000 2.7559	1.5 0.06	10.000 0.3937	145.000 5.7087	158.000 6.2205	21.000 0.8268	
			JP10019HRA	70.000 2.7559	1.5 0.06	10.000 0.3937	145.000 5.7087	158.000 6.2205	21.000 0.8268	
<b>JP11000</b>										
JP11035	100.000 3.9370	3.0 0.12	JP11019HR	70.000 2.7559	1.0 0.04	12.000 0.4724	170.000 6.6929	178.000 7.0079	27.000 1.0630	
JP11048	110.000 4.3307	3.0 0.12								
<b>JP12000</b>										
JP12043P	115.000 4.5276	3.0 0.12	JP12019HR	70.000 2.7559	1.0 0.04	12.000 0.4724	180.000 7.0866	190.000 7.4803	26.000 1.0236	
JP12049P	120.000 4.7244	3.0 0.12								

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\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

# HYDRA-RIB™ BEARING

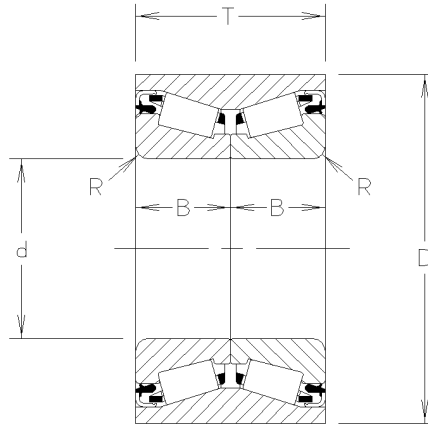


CONE			CUP						BEARING	Remarks
Number	BORE d	MAX SHAFT FILLET RAD R	Number	WIDTH C	MAX SHAFT FILLET RAD r	SEAT WIDTH D	SEAT DIA D	FLANGE DIA D1	WIDTH T	
<b>JP13000</b>										
JP13043P	125.000 4.9213	3.0 0.12	JP13016HR	72.000 2.8346	1.0 0.04	12.000 0.4724	190.000 7.4803	200.000 7.8740	29.000 1.1417	
JP13049P	130.000 5.1181	3.0 0.12								
<b>JP14000</b>										
JP14043P	135.000 5.3150	3.0 0.12	JP14019HR	72.000 2.8346	1.0 0.04	13.000 0.5118	205.000 8.0709	213.000 8.3858	27.000 1.0630	
JP14049P	140.000 5.5118	3.0 0.12								
<b>JP16000</b>										
JP16043P	155.000 6.1024	3.0 0.12	JP16019HR	76.000 2.9921	1.0 0.04	15.000 0.5906	227.000 8.9370	235.000 9.2520	30.000 1.1811	
JP16049P	160.000 6.2992	3.0 0.12								
<b>JP17000</b>										
JP17049P	170.000 6.6929	3.0 0.12	JP17019HR	79.000 3.1102	1.0 0.04	15.000 0.5906	240.000 9.4488	248.000 9.7638	30.000 1.1811	
<b>JP18000</b>										
JP18049P	180.000 7.0866	3.0 0.12	JP18019HR	84.000 3.3071	1.0 0.04	15.000 0.5906	260.000 10.2362	268.000 10.5512	30.000 1.1811	
<b>JP20000</b>										
JP20049P	200.000 7.8740	3.0 0.12	JP20019HR	83.000 3.2677	1.0 0.04	17.000 0.6693	282.000 11.1024	290.000 11.4173	32.000 1.2598	
<b>JP22000</b>										
JP22049E	220.000 8.6614	3.0 0.12	JP22019HR	83.000 3.2677	1.0 0.04	17.000 0.6693	308.000 12.1260	316.000 12.4409	32.000 1.2598	
<b>JL555000</b>										
JL555235	270.000 10.6299	4.0 0.16	JL555219HR	105.000 4.1339	4.0 0.16	20.000 0.7874	375.000 14.7638	385.000 15.1575	40.000 1.5748	
JL555239	285.750 11.2500	4.0 0.16								

UNIPAC™ SERIES CONTINUED ON NEXT PAGE

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

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CONE			MAX SHAFT FILLET RADI R	CUP		BEARING	SEALS	REMARKS
SERIES	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH T		
JRM3000 JRM3049	30.000 1.1811	19.507 0.7680	2.5 0.10	*JRM3010XDA	60.030 2.3634	37.000 1.4567	Y	JRM3010XDA: CHAMFER ON RIGHTFACE OD CHAMFER ON LEFTFACE OD
JRM3400 *JRM3449	34.000 1.3386	19.507 0.7680	2.5 0.10	*JRM3410XD 2.6697	67.810 1.6929	43.000	N	JRM3410XD: GROOVE IN OD CENTER JRM3449: EXTENDED SMALL RIB SPECIAL BACKFACE RADIUS
JRM3500 *JRM3534	34.000 1.3386	18.500 0.7284	N/A N/A	JRM3564XD	64.000 2.5197	37.000 1.4567	Y	JRM3534: SPECIAL BACKFACE CHAMFER SLOTS IN FRONTFACE
JRM3535	35.000 1.3780	18.500 0.7284	3.5 0.14					JRM3535X: SLOTS IN FRONTFACE
JRM3535H	35.000 1.3780	18.500 0.7284	3.5 0.14					JRM3536: ASSEMBLY JRM3536 / JRM3564XD DOES NOT HAVE SEAL
*JRM3535X	35.000 1.3780	18.500 0.7284	3.5 0.14					
JRM3535XA	35.000 1.3780	18.500 0.7284	3.5 0.14					
*JRM3536	35.000 1.3780	18.500 0.7284	3.5 0.14					
JRM3535A	35.000 1.3780	17.500 0.6890	1.8 0.07	JRM3565XD	65.000 2.5591	35.000 1.3780	Y	
JRM3900 JRM3935A	35.000 1.3780	18.500 0.7284	2.5 0.10	JRM3968XD	68.000 2.6772	37.000 1.4567	Y	JRM3939W: SLOTS IN FRONTFACE
JRM3938A	38.125 1.5010	18.500 0.7284	2.0 0.08					JRM3939WA: SLOTS IN FRONTFACE
JRM3939	39.000 1.5354	18.500 0.7284	3.8 0.15					
JRM3939C	39.000 1.5354	18.500 0.7284	3.8 0.15					
*JRM3939W	39.000 1.5354	18.500 0.7284	3.8 0.15					
*JRM3939WA	39.000 1.5354	18.500 0.7284	3.8 0.15					
JRM4000 JRM4040A	39.954 1.5730	16.500 0.6496	3.5 0.14	JRM4076XD	76.000 2.9921	28.000 1.1024	Y	
JRM4042	42.000 1.6535	20.000 0.7874	3.5 0.14	JRM4076XDA	76.000 2.9921	37.000 1.4567	Y	
JRM4200 JRM4249	42.000 1.6535	19.500 0.7677	3.8 0.15	JRM4210XD	76.000 2.9921	39.000 1.5354	Y	
JRM4248	42.000 1.6535	19.075 0.7510	2.5 0.10	JRM4214XD	80.000 3.1496	38.000 1.4961	N	

\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\*See Remarks Column.

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**K PARTS**

CUP	SERIES	CUP	SERIES
K24429	03000	K109521	475
K33867	15000	K109587	475
K35666	435	K109597	495
K35667	03000	K110108	HH224300
K38958	12500	K151586	EH239500
K39214	05000	K154600	15000
K46688	435	K302661	475
K78175	24700	K302664	395
K87718	595	K302667	33800
K88207	475	K302670	48200
K90651	03000	K302672	24700
K91179	435	K312462	495
K93494	78000	K312463	495
K93891	595	K312471	495
K94495	475	K312486	755
K97753	24700	K312489	475
K97770	03000	K312493	33800
K100019	475	K312494	HH229000
K100427	575	K312495	05000
K100825	33800	K326053	48200
K101989	595	K326068	HH221400
K102084	475	K326074	435
K103272	33800	K326078	HH228300
K103649	48200	K426864	H221600
K103951	835	K426866	33800
K104052	475	K426867	15000
K104220	575	K426894	395
K104429	475	K444665	33800
K104605	05000	K444666	24700
K104606	24700	K444675	595
K105665	56000	K444677	HH224300
K105666	56000	K516771	475
K106797	33800	K516772	475
K106815	595	K516773	595
K107100	24700	K516776	475
K107168	475	K516780	635
K107552	EH239300	K518331	385
K108609	05000	K529695	395
K109413	48200		

The parts listed above are heavy section double cups and may have an unusual feature such as a flange. Refer to series for dimensional information.

**12**

NP and XC PARTS

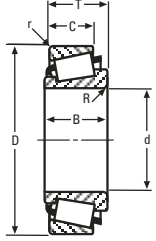
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
XC309C	227.076 8.9400	61.912 2.4375	7.0 .28					
*JXC332CA	48.000 1.8898	17.460 .6875	2.5 .10					JXC332CA: FRONTFACE CHAMFER
XC332C	46.038 1.8125	17.462 .6875	.8 .03	*XC332D	80.962 3.1875	14.288 .5625	spcl. spcl.	XC332D: SPECIAL RADIUS ON FRONTFACE OD SPECIAL RADIUS ON BACKFACE OD
XC407C	203.200 8.0000	88.897 3.4999	3.3 .13					
*XC758CA	63.500 2.5000	38.100 1.5000	3.5 .14					XC758CA: EXTENDED SMALL RIB GROOVE IN OD FRONTFACE
XC758CD	63.500 2.5000	36.170 1.4240	3.5 .14					
*XC941C	255.588 10.0625	22.225 .8750	1.5 .06	*XC941DB	296.862 11.6875	15.875 .6250	1.5 .06	XC941C: MADE FROM VACUUM MELT STEEL BROKEN FRONTFACE ID XC941DB: MADE FROM VACUUM MELT STEEL
XC974CC	34.976 1.3770	20.638 .8125	3.5 .14	XC974DB	71.966 2.8333	19.050 .7500	.8 .03	
*XC1190CG	215.900 8.5000	79.372 3.1249	1.5 .06					XC1190CG: NO SMALL RIB SHOULDER ON OD FRONTFACE
XC1196CBC	50.800 2.0000	26.909 1.0594	3.5 .14					
XC1219CP	177.800 7.0000	63.500 2.5000	7.0 .28					
XC1309CD	38.100 1.5000	16.520 .6504	.8 .03	XC1309DE	69.012 2.7170	15.083 .5938	1.5 .06	
				XC1310DF	85.400 3.3622	18.000 .7087	1.5 .06	
				*XC1362D	438.048 17.2460	123.825 4.8750	1.5 .06	XC1362D: HOLES IN OD CENTER GROOVE IN OD CENTER
XC1378CC	130.000 5.1181	47.625 1.8750	3.5 .14					
XC1410CA	234.823 9.2450	49.212 1.9375	1.5 .06	XC1410DA	320.675 12.6250	33.338 1.3125	3.3 .13	
				XC1475DB	100.000 3.9370	42.862 1.6875	.8 .03	
*XC1671CA	109.538 4.3125	21.438 .8440	3.5 .14					XC1671CA: MADE FROM VACUUM MELT STEEL
XC1671CC	109.538 4.3125	21.438 .8440	5.0 .20					
XC1671CCA	109.538 4.3125	21.438 .8440	5.0 .20	*XC1671DA	158.750 6.2500	15.875 .6250	3.3 .13	XC1671DA: MADE FROM VACUUM MELT STEEL
				*XC1753DE	161.925 6.3750	85.725 3.3750	1.5 .06	XC1753DE: GROOVE IN OD CENTER HOLES IN OD CENTER
XC1781CE	130.175 5.1250	123.825 4.8750	1.5 .06					
*XC1781CF	119.964 4.7230	47.625 1.8750	3.5 .14	XC1784DC	80.035 3.1510	19.845 .7813	.8 .03	XC1781CF: FRONTFACE CHAMFER
				XC1788DA	290.398 11.4330	42.862 1.6875	3.3 .13	
XC1836C	456.959 17.9905	73.025 2.8750	9.7 .38	*XC1836D	596.900 23.5000	120.650 4.7500	1.5 .06	XC1836D: GROOVE IN OD CENTER HOLES IN OD CENTER

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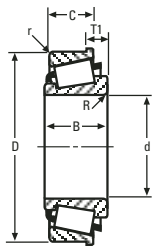
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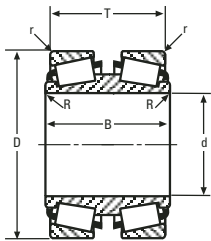
**NP and XC PARTS**



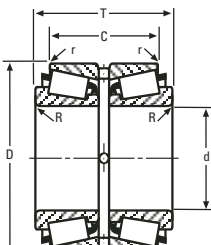
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
JXC1839CL	55.000 2.1654	29.795 1.1730	1.5 .06					
*XC1850CA	228.600 9.0000	87.312 3.4375	10.5 .41					XC1850CA: SHOULDER ON OD FRONTFACE NO SMALL RIB
XC1850CB	234.950 9.2500	87.312 3.4375	10.5 .41					
XC1850CC	230.188 9.0625	87.312 3.4375	10.5 .41					
				XC1850DF	384.175 15.1250	63.500 2.5000	3.3 .13	
*XC1863CD	53.962 2.1245	23.973 .9438	1.5 .06					XC1863CD: MADE FROM VACUUM MELT STEEL GROOVE IN OD BACKFACE
XC1863CG	57.150 2.2500	18.258 .7188	1.5 .06					
				*XC1923DB	153.924 6.0600	43.655 1.7187	.8 .03	XC1923DB: ASYMMETRICAL - TWO SERIES BEARING HOLES IN RIGHTFACE FLANGE FLANGE ON OD RIGHTFACE
XC1931CC	88.900 3.5000	20.638 .8125	1.5 .06					
XC1933CH	107.950 4.2500	21.433 .8438	1.5 .06					
				XC1933DE	146.050 5.7500	16.670 .6563	1.5 .06	XC1934CB: MADE FROM VACUUM MELT STEEL
*XC1934CB	127.000 5.0000	26.195 1.0313	1.5 .06					JXC1945CA: BROKEN FRONTFACE ID
*JXC1945CA	100.000 3.9370	15.085 .5938	1.5 .06					JXC1945CB: BROKEN FRONTFACE ID
*JXC1945CB	100.000 3.9370	15.085 .5938	1.5 .06					JXC1945CC: BROKEN FRONTFACE ID
*JXC1945CC	98.000 3.8583	15.085 .5938	1.5 .06					
				JXC1945DA	130.000 5.1181	11.910 .4688	1.5 .06	XC1956CC: EXTENDED SMALL RIB
XC1948CA	127.000 5.0000	17.462 .6875	1.5 .06					
*XC1956CC	235.331 9.2650	57.150 2.2500	6.4 .25					
XC1962CE	29.987 1.1806	16.566 .6522	1.5 .06					
XC1966CA	68.262 2.6875	46.038 1.8125	3.5 .14					
*XC1970CF	57.150 2.2500	30.162 1.1875	3.5 .14					XC1970CF: FRONTFACE CHAMFER
				XC1970DC	112.712 4.4375	23.812 .9375	3.3 .13	XC1980CM: GROOVE IN OD FRONTFACE
*XC1980CM	60.325 2.3750	46.038 1.8125	3.5 .14					XC1980CN: GROOVE IN OD FRONTFACE
*XC1980CN	50.800 2.0000	46.038 1.8125	.8 .03					
				JXC1983DA	102.000 4.0157	33.340 1.3125	1.0 .04	
				XC2015DB	82.931 3.2650	17.813 .7013	1.5 .06	
				XC2023DC	146.050 5.7500	25.400 1.0000	3.3 .13	
XC2058CF	53.975 2.1250	32.791 1.2910	3.5 .14					
XC2064CB	133.350 5.2500	46.038 1.8125	3.5 .14					XC2064D: HOLES IN OD CENTER GROOVE IN OD CENTER
				*XC2064D	196.850 7.7500	85.725 3.3750	.8 .03	XC2081CB: SHOULDER ON ID FRONTFACE KEYWAY IN FRONTFACE TAPERED BORE SPECIAL BACKFACE RADIUS EXTENDED LARGE RIB
*XC2081CB	460.672 18.1367	206.438 8.1275	spcl. spcl.					
*XC2081CC	443.596 17.4644	258.763 10.1875	3.0 .12					
*XC2081CD	422.031 16.6154	119.062 4.6875	6.4 .25					

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NP and XC PARTS

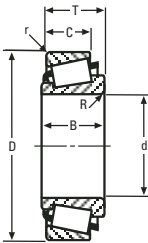
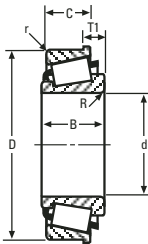
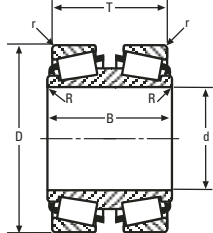
CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks	
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C			
*XC2081CE	460.672 18.1367	206.438 8.1275	spcl. spcl.					XC2081CC: TQI/TQO (INTERLOCKING) TAPERED BORE	
*XC2081CF	443.596 17.4644	258.763 10.1875	3.0 .12					XC2081CD: KEYWAY IN FRONTFACE SHOULDER ON ID FRONTFACE REVERSE TAPERED BORE	
*XC2081CG	460.672 18.1367	206.438 8.1275	spcl. spcl.					XC2081CE: TAPERED BORE SPECIAL BACKFACE RADIUS KEYWAY IN FRONTFACE EXTENDED LARGE RIB SHOULDER ON ID FRONTFACE	
*XC2081CH	422.031 16.6154	119.062 4.6875	6.4 .25						
XC2081CR	447.675 17.6250	120.650 4.7500	6.4 .25						
*XC2094CB	346.075 13.6250	95.250 3.7500	6.4 .25						
XC2097C	171.450 6.7500	47.625 1.8750	3.5 .14						
				XC2099DD	136.525 5.3750	46.038 1.8125	3.3 .13		XC2081CF: TQI/TQO (INTERLOCKING) TAPERED BORE
				*XC2105DA	107.950 4.2500	53.975 2.1250	.8 .03		XC2081CG: EXTENDED LARGE RIB SPECIAL BACKFACE RADIUS TAPERED BORE
XC2113CB	48.412 1.9060	36.512 1.4375	3.5 .14						
				XC2113DA	107.988 4.2515	28.575 1.1250	3.3 .13		XC2081CH: REVERSE TAPERED BORE
				*XC2113DC	109.398 4.3070	53.975 2.1250	.8 .03		XC2094CB: NO SMALL RIB SHOULDER ON OD FRONTFACE GROOVE IN OD FRONTFACE
XC2131CE	203.200 8.0000	49.212 1.9375	3.5 .14						
				XC2131D	279.527 11.0050	36.512 1.4375	3.3 .13		XC2105DA: HOLES IN OD CENTER
				*XC2133DC	127.000 5.0000	26.988 1.0625	3.3 .13		XC2113DC: KEYWAY IN OD RIGHTFACE CHAMFER ON RIGHTFACE OD ASYMMETRICAL - TWO SERIES BEARING FLANGE ON OD LEFTFACE GROOVE IN OD LEFTFACE
*XC2141C	419.100 16.5000	22.225 .8750	spcl. spcl.						
				XC2141D	476.250 18.7500	20.625 .8120	1.5 .06		
				XC2143D	238.125 9.3750	50.800 2.0000	6.4 .25		XC2133DC: CHAMFER ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
XC2149C	673.100 26.5000	61.912 2.4375	6.4 .25						
XC2159CA	114.236 4.4975	41.275 1.6250	3.5 .14						
				*XC2175D	698.500 27.5000	76.200 3.0000	3.3 .13		XC02139DE: GROOVE IN OD FRONTFACE
				XC2179DB	266.751 10.5020	38.100 1.5000	3.3 .13		XC2141C: BACKFACE CHAMFER FRONTFACE CHAMFER
*XC2180CD	355.486 13.9955	60.325 2.3750	3.5 .14						
*JXC2188CU	45.000 1.7717	22.500 .8858	3.0 .13						
*JXC2188CV	45.000 1.7717	22.500 .8858	3.0 .13						
XC2192C	336.550 13.2500	23.812 .9375	3.5 .14						
				XC2192D	381.000 15.0000	19.050 .7500	3.3 .13		JXC2188CV: FRONTFACE CHAMFER
JXC2195CH	24.990 .9838	20.640 .8125	.8 .03						
*JXC2195CM	29.985 1.1805	21.000 .8268	spcl. spcl.						
				JXC2195DD	63.015 2.4809	21.000 .8268	2.3 .09		JXC2195CM: SPECIAL BACKFACE RADIUS
XC2195CF	31.750 1.2500	20.638 .8125	.8 .03						
XC2195CG	25.400 1.0000	20.638 .8125	.8 .03						
XC2195CJ	25.400 1.0000	20.640 .8125	.8 .03						

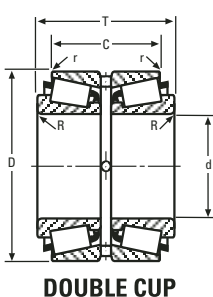
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NP and XC PARTS

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks	
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C			
 <p><b>SINGLE ROW</b></p>	*XC2204C	187.325 7.3750	101.600 4.0000	1.5 .06	*XC2195DA 62.000 2.4409	14.288 .5625	1.3 .05	XC2195DA: MADE FROM VACUUM MELT STEEL	
					XC2195DC	62.000 2.4409	14.288 .5625	1.3 .05	XC2204C: SLOTS IN RIGHTFACE SHOULDER ON OD LEFTFACE
					*XC2204D	270.002 10.6300	93.662 3.6875	1.5 .06	XC2204D: HOLES IN OD CENTER GROOVE IN OD CENTER
	XC2210CBH	19.050 .7500	16.637 .6550	1.3 .05	XC2204DA	269.875 10.6250	42.862 1.6875	3.3 .13	
	XC2212CS	41.275 1.6250	19.812 .7800	3.5 .14	*XC2213D	876.300 34.5000	73.025 2.8750	1.5 .06	XC2213D: HOLES IN FRONTFACE
					XC2228DD	488.950 19.2500	74.612 2.9375	3.3 .13	
	*XC2243C	50.800 2.0000	27.780 1.0937	2.8 .11					XC2243C: NO SMALL RIB NO LARGE RIB
	*XC2243CB	50.800 2.0000	27.780 1.0937	2.8 .11					XC2243CB: NO SMALL RIB NO LARGE RIB STRAIGHT OD
					XC2243D	104.775 4.1250	31.750 1.2500	.8 .03	
					XC2243DB	104.673 4.1210	26.416 1.0400	.8 .03	
 <p><b>SINGLE ROW WITH FLANGE</b></p>	XC2251C	303.075 11.9321	263.525 10.3750	3.3 .13	XC2247DC	30.480 1.2000	7.938 .3125	1.3 .05	
	*XC2253CB	34.925 1.3750	18.288 .7200	spcl. spcl.					XC2253CB: SPECIAL BACKFACE RADIUS
	*XC2268CG	330.200 13.0000	47.625 1.8750	3.5 .14					XC2268CG: MADE FROM SPECIAL STEEL
	XC2268CK	330.200 13.0000	47.625 1.8750	3.5 .14	*XC2268D	415.925 16.3750	34.925 1.3750	3.3 .13	XC2268D: MADE FROM SPECIAL STEEL
					XC2268DB	415.925 16.3750	34.925 1.3750	3.3 .13	
	*XC2275C	36.512 1.4375	20.638 .8125	1.5 .06					XC2275C: NO SMALL RIB NO LARGE RIB
					XC2275D	79.375 3.1250	23.812 .9375	1.6 .06	
					XC2277D	169.062 6.6560	41.275 1.6250	3.3 .13	
	XC2279CA	60.325 2.3750	25.400 1.0000	3.5 .14	XC2279DA	100.000 3.9370	19.845 .7813	3.3 .13	
	XC2279CE	62.738 2.4700	25.400 1.0000	3.5 .14	*XC2279DB	104.775 4.1250	44.450 1.7500	.8 .03	XC2279DB: HOLES IN OD CENTER
 <p><b>DOUBLE CONE</b></p>	XC2283C	228.549 8.9980	69.850 2.7500	6.4 .25	*XC2283DA	357.188 14.0625	114.300 4.5000	1.5 .06	XC2283DA: GROOVE IN OD CENTER HOLES IN OD CENTER
	XC2287CD	44.988 1.7712	31.750 1.2500	2.5 .10	XC2287DB	108.000 4.2520	23.368 .9200	2.5 .10	
	XC2305CA	457.200 18.0000	130.175 5.1250	1.5 .06					
	XC2312CC	63.500 2.5000	41.275 1.6250	3.5 .14					



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NP and XC PARTS

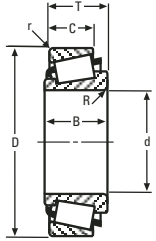
CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
XC2313CE	228.600	69.850	6.8	XC2312D	139.700	31.750	3.3	
	9.0000	2.7500			5.5000	1.2500		
XC2328CC	50.800	30.162	.8	XC2321DK	152.425	30.162	3.3	
	2.0000	1.1875			6.0010	1.1875		
XC2328CK	49.967	30.162	3.5					
	1.9672	1.1875	.14					
XC2332CC	57.150	44.450	3.5					
	2.2500	1.7500	.14					
XC2332CD	60.325	44.450	3.5					
	2.3750	1.7500	.14					
*XC2332CE	50.800	44.450	3.5					XC2332CE: HOLES IN BACKFACE TO UNDERCUT
	2.0000	1.7500	.14					
XC2332CF	60.325	44.450	3.5					
	2.3750	1.7500	.14					
				*XC2338DA	220.662	163.510	N/A	XC2338DA: HOLES IN OD CENTER
					8.6875	6.4374	N/A	
				*XC2338DB	220.662	163.510	N/A	XC2338DB: HOLES IN OD CENTER
					8.6875	6.4374	N/A	
XC2341CE	19.050	11.153	1.0					
	.7500	.4391	.04					
				*XC2341DA	41.275	26.988	1.8	XC2341DA: CHAMFER ON LEFTFACE OD
					1.6250	1.0625	.07	CHAMFER ON RIGHTFACE OD
JXC2347CG	17.000	14.605	1.0					
	.6693	.5750	.04					
				JXC2347DH	40.000	10.075	1.3	
					1.5748	.3967	.05	
XC2347CA	16.980	14.605	1.2					
	.6685	.5750	.05					
				XC2347DE	39.975	10.668	1.3	
					1.5738	.4200	.05	
				XC2347DF	39.878	50.800	.4	
					1.5700	2.0000	.01	
				XC2359DF	64.292	16.670	1.5	
					2.5312	.6563	.06	
				XC2359DG	64.292	16.670	1.5	
					2.5312	.6563	.06	
				XC2366D	90.863	15.875	2.0	
					3.5773	.6250	.08	
*JXC2368CA	100.000	30.000	2.3					JXC2368CA: HOLES IN BACKFACE TO UNDERCUT
	3.9370	1.1811	.09					
*XC2376C	50.800	64.447	.8					XC2376C: EXTENDED SMALL RIB
	2.0000	2.5373	.03					
*XC2376CA	49.212	64.447	.8					XC2376CA: EXTENDED SMALL RIB
	1.9375	2.5373	.03					
*XC2376CB	47.625	64.447	.8					XC2376CB: EXTENDED SMALL RIB
	1.8750	2.5373	.03					
*XC2376CC	53.975	64.447	.8					XC2376CC: EXTENDED SMALL RIB
	2.1250	2.5373	.03					
*XC2376CQ	57.150	23.945	.8					XC2376CQ: HOLES IN BACKFACE TO UNDERCUT
	2.2500	.9427	.03					
				XC2376DC	100.100	17.826	.8	
					3.9410	.7018	.03	
				XC2376DE	100.863	17.826	2.0	
					3.9710	.7018	.08	
XC2378C	55.562	66.053	.8					
	2.1875	2.6005	.03					
XC2378CD	59.987	22.000	2.3					
	2.3617	.8661	.09					
XC2378CE	59.987	22.000	2.3					
	2.3617	.8661	.09					
				XC2378D	104.775	15.875	2.0	
					4.1250	.6250	.08	

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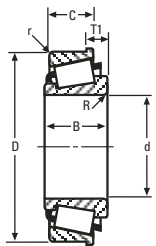
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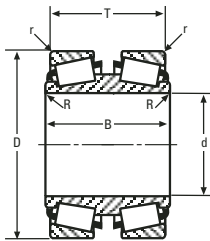
**NP and XC PARTS**



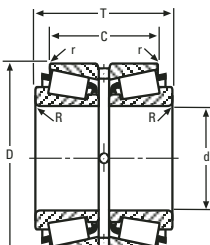
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*XC2379C	74.612 2.9375	69.215 2.7250	.8 .03					XC2379C: ECCENTRIC RIB BEARING
*XC2379CA	69.850 2.7500	69.215 2.7250	.8 .03					XC2379CA: ECCENTRIC RIB BEARING
*XC2379CB	68.262 2.6875	69.215 2.7250	.8 .03					XC2379CB: ECCENTRIC RIB BEARING
*XC2379CD	77.788 3.0625	23.012 .9060	3.5 .14					XC2379CD: FRONTFACE CHAMFER
XC2380C	38.100 1.5000	58.905 2.3191	.8 .03	XC2379DA	121.442 4.7812	17.462 .6875	2.0 .08	
XC2380CA	36.512 1.4375	58.905 2.3191	.8 .03					
*XC2380CB	41.275 1.6250	24.166 .9514	3.5 .14					XC2380CB: EXTENDED SMALL RIB
*XC2381C	44.450 1.7500	58.890 2.3185	.8 .03	XC2380D	73.431 2.8910	14.732 .5800	.8 .03	
*XC2381CA	42.862 1.6875	58.890 2.3185	.8 .03					XC2381C: EXTENDED SMALL RIB
*XC2381CB	41.275 1.6250	58.890 2.3185	.8 .03					XC2381CA: EXTENDED SMALL RIB
XC2382C	34.925 1.3750	58.903 2.3190	.8 .03					XC2381CB: EXTENDED SMALL RIB
XC2382CA	31.750 1.2500	58.903 2.3190	.8 .03					
XC2382CB	30.162 1.1875	58.903 2.3190	.8 .03					
*XC2383C	88.900 3.5000	82.710 3.2563	.8 .03					XC2382CB: EXTENDED SMALL RIB
XC2383CA	87.312 3.4375	82.710 3.2563	.8 .03					XC2383C: EXTENDED SMALL RIB
XC2384C	80.962 3.1875	81.915 3.2250	.8 .03					XC2383CA: EXTENDED SMALL RIB
XC2384CA	76.200 3.0000	81.915 3.2250	.8 .03					
XC2384CL	85.725 3.3750	29.769 1.1720	3.5 .14					
XC2385C	101.600 4.0000	97.790 3.8500	.8 .03					
XC2385CA	100.012 3.9375	97.790 3.8500	.8 .03					
XC2385CE	109.962 4.3292	34.925 1.3750	3.5 .14					
XC2391CA	228.346 8.9900	85.725 3.3750	6.4 .25					
XC2391CB	228.168 8.9830	85.725 3.3750	6.4 .25					
XC2394C	107.950 4.2500	36.512 1.4375	3.5 .14					
XC2398CA	53.975 2.1250	19.050 .7500	2.3 .09	XC2394DA	165.100 6.5000	26.988 1.0625	3.3 .13	
XC2399CA	125.412 4.9375	110.490 4.3500	.8 .03					
XC2399CD	136.525 5.3750	39.688 1.5625	10.0 .39					
*XC2405CC	36.987 1.4562	22.710 .8941	1.5 .06					XC2398CA: EXTENDED SMALL RIB
*XC2405CF	38.100 1.5000	20.015 .7880	2.3 .09					XC2399CA: EXTENDED SMALL RIB
*XC2405CH	38.100 1.5000	20.051 .7894	2.0 .08					XC2399CD: EXTENDED SMALL RIB

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
XC2405CJ	35.000 1.3780	18.290 .7200	2.3 .09					XC2405CK: FRONTFACE CHAMFER
*XC2405CK	38.100 1.5000	18.288 .7200	2.3 .09					
				XC2405DC	69.974 2.7549	18.435 .7258	2.5 .10	
				XC2405DE	65.088 2.5625	14.986 .5900	1.3 .05	
				XC2405DG	65.088 2.5625	13.970 .5500	1.3 .05	
				XC2405DH	69.088 2.7200	15.748 .6200	1.3 .05	
				XC2405DK	65.088 2.5625	13.970 .5500	1.3 .05	
JXC2409CC	85.000 3.3465	40.250 1.5846	3.0 .12	JXC2409D	150.000 5.9055	31.750 1.2500	3.0 .12	
XC2409CB	69.850 2.7500	41.275 1.6250	3.5 .14					
XC2411CA	17.462 .6875	14.605 .5750	1.3 .05	XC2411D	39.878 1.5700	10.668 .4200	1.3 .05	
XC2414CD	34.925 1.3750	25.400 1.0000	1.0 .04	*JXC2424DA	100.000 3.9370	42.000 1.6535	N/A N/A	JXC2424DA: ASYMMETRICAL - TWO SERIES BEARING FLANGE ON OD LEFTFACE
				XC2431DC	120.000 4.7244	19.050 .7500	2.3 .09	
XC2437CE	44.450 1.7500	28.575 1.1250	3.5 .14					
XC2437CF	44.450 1.7500	28.575 1.1250	3.5 .14					
*XC2438C	66.675 2.6250	57.150 2.2500	3.5 .14					XC2438C: GROOVE IN OD FRONTFACE SHOULDER ON OD FRONTFACE
*XC2438CB	66.675 2.6250	57.150 2.2500	1.5 .06	*XC2438D	152.400 6.0000	41.275 1.6250	3.3 .13	XC2438CB: HOLES IN ID BACKFACE MADE FROM VACUUM MELT STEEL SHOULDER ON ID BACKFACE
				XC2443D	673.100 26.5000	419.100 16.5000	3.3 .13	GROOVE IN ID BACKFACE
*XC2447C	669.671 26.3650	185.864 7.3175	9.7 .38					XC2438D: MADE FROM VACUUM MELT STEEL
*XC2447CA	654.360 25.7622	347.662 13.6875	4.8 .19					XC2447C: TAPERED BORE
*XC2447CB	625.389 24.6216	188.912 7.4375	9.7 .38					XC2447CA: ASYMMETRICAL BEARING TAPERED BORE
*XC2447CH	625.132 24.6115	191.033 7.5210	9.7 .38					XC2447CB: REVERSE TAPERED BORE
*XC2450CA	501.650 19.7500	250.825 9.8750	3.3 .13	*XC2450DA	711.200 28.0000	106.362 4.1875	6.4 .25	XC2447CH: REVERSE TAPERED BORE
*XC2451C	828.675 32.6250	214.312 8.4375	9.7 .38					XC2450CA: TAPERED BORE MADE FROM SPECIAL STEEL
*XC2451CA	810.994 31.9289	396.875 15.6250	4.8 .19					XC2450DA: MADE FROM SPECIAL STEEL
*XC2451CB	777.921 30.6268	214.312 8.4375	9.7 .38					XC2451C: KEYWAY IN FRONTFACE TAPERED BORE
*XC2451CF	828.777 32.6290	214.312 8.4375	9.7 .38					XC2451CA: TAPERED BORE TQI/TQO (NON-INTERLOCKING)
*XC2451CG	810.918 31.9259	396.875 15.6250	4.8 .19					
*XC2451CH	777.844 30.6238	214.312 8.4375	9.7 .38					XC2451CB: REVERSE TAPERED BORE

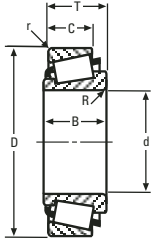
<sup>1</sup>These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
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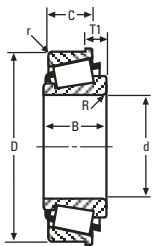
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NP and XC PARTS

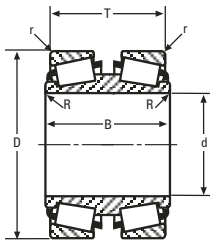
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*XC2455CF	120.650 4.7500	52.388 2.0625	.5 .02					XC2451CF: KEYWAY IN FRONTFACE TAPERED BORE
				XC2456D	190.525 7.5010	34.925 1.3750	1.5 .06	XC2451CG: TQI/TQO (NON-INTERLOCKING) REVERSE TAPERED BORE
*XC2463CL	827.527 32.5798	171.450 6.7500	9.7 .38					XC2451CH: REVERSE TAPERED BORE KEYWAY IN FRONTFACE
*XC2463CN	872.769 34.3610	171.450 6.7500	9.7 .38					XC2455CF: GROOVE IN OD BACKFACE BROKEN FRONTFACE ID SHOULDER ON OD BACKFACE EXTENDED LARGE RIB
*XC2465CC	34.988 1.3775	17.000 .6693	spcl. spcl.	XC2465DD	61.973 2.4399	13.600 .5354	1.5 .06	XC2463CL: REVERSE TAPERED BORE
*XC2475C	777.875 30.6250	219.075 8.6250	9.7 .38					XC2463CN: TAPERED BORE
*XC2475CA	759.618 29.9062	406.400 16.0000	4.8 .19	*XC2477D	736.600 29.0000	177.800 7.0000	1.5 .06	XC2465CC: FRONTFACE CHAMFER SPECIAL BACKFACE RADIUS
*XC2475CB	725.752 28.5729	219.075 8.6250	9.7 .38	*XC2477DA	736.600 29.0000	177.800 7.0000	1.5 .06	XC2475C: TAPERED BORE KEYWAY IN FRONTFACE
								XC2475CA: TAPERED BORE KEYWAY IN FRONTFACE
				*XC2480D	314.782 12.3930	106.362 4.1875	1.5 .06	XC2475CB: REVERSE TAPERED BORE KEYWAY IN FRONTFACE
				*XC2481DA	73.025 2.8750	38.892 1.5312	1.5 .06	XC2477D: GROOVE IN OD CENTER HOLES IN OD CENTER
				*XC2481DB	73.414 2.8903	38.892 1.5312	1.5 .06	XC2477DA: HOLES IN OD CENTER GROOVE IN OD CENTER
				XC2488DA	122.238 4.8125	38.100 1.5000	3.3 .13	XC2480D: GROOVE IN OD CENTER HOLES IN OD CENTER
*JXC2493CA	120.000 4.7244	36.000 1.4173	3.5 .14					XC2481DA: SHOULDER ON OD FRONTFACE GROOVE IN ID CENTER
XC2527CB	95.000 3.7402	45.500 1.7913	5.0 .20	JXC2568DA	100.000 3.9370	23.020 .9063	3.3 .13	XC2481DB: GROOVE IN ID CENTER SHOULDER ON OD FRONTFACE
								JXC2493CA: HOLES IN BACKFACE TO UNDERCUT
*XC2836C	604.838 23.8125	109.538 4.3125	6.4 .25	XC2837D	123.825 4.8750	25.400 1.0000	3.3 .13	XC2836C: TAPERED BORE KEYWAY IN FRONTFACE
*XC2836CA	595.709 23.4531	201.612 7.9375	3.3 .13	XC2840D	62.000 2.4409	15.500 .6102	1.5 .06	XC2836CA: TAPERED BORE TQI/TQO (NON-INTERLOCKING)
*XC2836CB	578.909 22.7917	109.538 4.3125	6.4 .25	XC5240D	358.775 14.1250	23.812 .9375	3.3 .13	XC2836CB: KEYWAY IN FRONTFACE REVERSE TAPERED BORE
XC2837CT	53.975 2.1250	32.791 1.2910	3.5 .14					XC5939CA: MADE FROM SPECIAL STEEL
				*XC5939D	457.098 17.9960	49.212 1.9375	3.3 .13	XC5939D: MADE FROM SPECIAL STEEL
				XC5939DB	457.098 17.9960	49.212 1.9375	3.3 .13	
				XC5940D	336.550 13.2500	50.800 2.0000	3.3 .13	



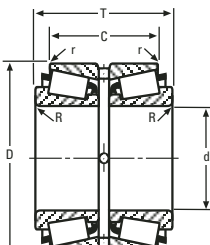
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*XC6838C	42.875 1.6880	25.392 .9997	spcl. spcl.					XC6838C: SPECIAL BACKFACE RADIUS
				XC6838D	80.962 3.1875	18.550 .7303	2.3 .09	
*JXC6839CD	28.000 1.1024	32.000 1.2598	2.5 .10					JXC6839CD: FRONTFACE CHAMFER
				*JXC6839DC	95.000 3.7402	26.500 1.0433	1.5 .06	JXC6839DC: BROKEN CORNER ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
*XC6839CC	39.987 1.5743	32.000 1.2598	1.0 .04					
				XC6840DA	136.525 5.3750	34.000 1.3386	3.3 .13	XC6839CC: FRONTFACE CHAMFER
XC8240C	558.800 22.0000	88.108 3.4688	6.4 .25					
				XC8240D	736.600 29.0000	63.500 2.5000	6.4 .25	
*XC8439C	547.535 21.5565	153.746 6.0530	6.4 .25					XC8439C: KEYWAY IN FRONTFACE TAPERED BORE
*XC8439CA	534.800 21.0551	288.925 11.3750	3.3 .13					XC8439CA: TQI/TQO (NON-INTERLOCKING) TAPERED BORE
*XC8439CB	510.800 20.1102	155.575 6.1250	6.4 .25					
*XC8439CC	555.234 21.8596	233.416 9.1896	spcl. spcl.					XC8439CB: HOLES IN BACKFACE REVERSE TAPERED BORE
*XC8439CD	509.588 20.0625	142.875 5.6250	6.4 .25					XC8439CC: EXTENDED SMALL RIB TAPERED BORE SPECIAL BACKFACE RADIUS
*XC8640CC	99.974 3.9360	42.000 1.6535	3.0 .12					
*XC8640CD	99.974 3.9360	42.000 1.6535	spcl. spcl.					XC8439CD: REVERSE TAPERED BORE
*XC9436CA	279.400 11.0000	24.384 .9600	1.5 .06					XC8640CC: FRONTFACE CHAMFER
				*XC9436D	317.500 12.5000	18.288 .7200	1.5 .06	XC8640CD: SPECIAL BACKFACE RADIUS FRONTFACE CHAMFER
				*XC02139DE	90.000 3.5433	21.500 .8465	3.0 .12	
				XC02139DF	82.000 3.2283	21.500 .8465	1.3 .05	XC9436CA: MADE FROM SPECIAL STEEL
				XC02139DT	82.652 3.2540	16.510 .6500	.8 .03	XC9436D: MADE FROM SPECIAL STEEL
				XC02139DU	83.414 3.2840	16.510 .6500	1.3 .05	
*XC02634CE	415.925 16.3750	209.550 8.2500	3.3 .13					XC02634CE: GROOVE IN ID CENTER MADE FROM SPECIAL STEEL TAPERED BORE
*XC02634CL	415.925 16.3750	209.550 8.2500	3.3 .13					
				*XC02634DC	590.550 23.2500	88.900 3.5000	6.4 .25	XC02634CL: GROOVE IN ID CENTER TAPERED BORE
				XC02634DH	590.550 23.2500	88.900 3.5000	6.4 .25	XC02634DC: MADE FROM SPECIAL STEEL
*XC03636CA	129.974 5.1171	86.248 3.3956	3.3 .13					
				XC04138D	193.675 7.6250	23.020 .9063	.3 .01	XC03636CA: SLOTS IN FRONTFACE SHOULDER ON OD BACKFACE FRONTFACE CHAMFER
				*JXC06536DC	45.000 1.7717	12.065 .4750	spcl. spcl.	JXC06536DC: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION SPECIAL RADIUS ON BACKFACE OD
XC06536CD	21.986 .8656	16.637 .6550	1.3 .05					
*JXC07537CC	35.000 1.3780	18.460 .7268	2.0 .08					
*XC09636CA	368.300 14.5000	185.738 7.3125	3.3 .13					JXC07537CC: EXTENDED SMALL RIB
				XC09636DA	523.875 20.6250	79.375 3.1250	6.4 .25	XC09636CA: TAPERED BORE GROOVE IN ID CENTER
XC09637CD	41.275 1.6250	25.654 1.0100	3.5 .14					

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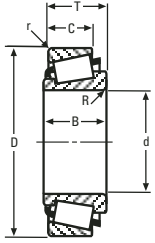
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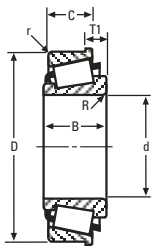


NP and XC PARTS

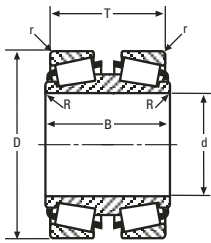
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>XC09639DF</b>	<b>46.960</b> 1.8488	<b>12.065</b> .4750	<b>1.3</b> .05	
<b>*XC10036CB</b>	<b>85.000</b> 3.3465	<b>52.761</b> 2.0772	<b>3.5</b> .14					XC10036CB: SHOULDER ON OD FRONTFACE NO SMALL RIB
<b>*XC10037C</b>	<b>155.575</b> 6.1250	<b>122.238</b> 4.8125	<b>1.5</b> .06					XC10037C: ASYMMETRICAL BEARING MADE FROM SPECIAL STEEL TAPERED BORE
				<b>XC10037D</b>	<b>247.650</b> 9.7500	<b>52.388</b> 2.0625	<b>3.3</b> .13	
<b>XC10038C</b>	<b>110.500</b> 4.3504	<b>21.000</b> .8268	<b>1.5</b> .06					
<b>XC10038CA</b>	<b>110.500</b> 4.3504	<b>21.000</b> .8268	<b>1.5</b> .06					
<b>*JXC10040CC</b>	<b>80.000</b> 3.1496	<b>38.000</b> 1.4961	<b>3.0</b> .12					JXC10040CC: EXTENDED SMALL RIB GROOVE IN OD FRONTFACE
<b>*XC10040CB</b>	<b>84.000</b> 3.3071	<b>29.000</b> 1.1417	<b>3.0</b> .12					XC10040CB: MADE FROM VACUUM MELT STEEL
				<b>*XC10040DA</b>	<b>130.000</b> 5.1181	<b>24.000</b> .9449	<b>2.5</b> .10	
<b>*XC10237CA</b>	<b>98.000</b> 3.8583	<b>40.000</b> 1.5748	<b>1.7</b> .07					XC10040DA: MADE FROM VACUUM MELT STEEL
<b>XC10237CC</b>	<b>89.944</b> 3.5411	<b>43.500</b> 1.7126	<b>1.5</b> .06					XC10237CA: TAPERED BORE
<b>*XC10237CD</b>	<b>89.974</b> 3.5423	<b>47.000</b> 1.8504	<b>7.0</b> .28					XC10237CD: EXTENDED SMALL RIB
<b>*XC10237CH</b>	<b>89.974</b> 3.5423	<b>40.000</b> 1.5748	<b>5.8</b> .23					XC10237CH: FRONTFACE CHAMFER
				<b>XC10237DC</b>	<b>146.975</b> 5.7864	<b>32.500</b> 1.2795	<b>3.5</b> .14	
<b>*JXC10238CK</b>	<b>46.015</b> 1.8117	<b>18.000</b> .7087	spcl. spcl.					JXC10238CK: SPECIAL BACKFACE RADIUS FRONTFACE CHAMFER
				<b>JXC10238DF</b>	<b>75.000</b> 2.9528	<b>14.000</b> .5512	<b>1.5</b> .06	
<b>*XC10238CB</b>	<b>44.988</b> 1.7712	<b>19.093</b> .7517	spcl. spcl.					XC10238CB: SPECIAL BACKFACE RADIUS
				<b>XC10238DC</b>	<b>74.976</b> 2.9518	<b>14.000</b> .5512	<b>1.5</b> .06	
<b>XC10240CJ</b>	<b>29.000</b> 1.1417	<b>14.730</b> .5800	<b>3.5</b> .14					
<b>*XC10638C</b>	<b>184.150</b> 7.2500	<b>26.543</b> 1.0450	<b>1.5</b> .06					XC10238DC: SPECIAL BACKFACE RADIUS
<b>*XC10638CA</b>	<b>190.500</b> 7.5000	<b>26.543</b> 1.0450	<b>1.5</b> .06					XC10240CJ: EXTENDED SMALL RIB
				<b>XC10638D</b>	<b>260.350</b> 10.2500	<b>28.829</b> 1.1350	<b>.3</b> .01	
<b>*XC10639C</b>	<b>209.550</b> 8.2500	<b>31.750</b> 1.2500	<b>1.5</b> .06					XC10638C: NO SMALL RIB NO LARGE RIB
<b>*XC10639CA</b>	<b>215.900</b> 8.5000	<b>31.750</b> 1.2500	<b>1.5</b> .06					XC10638CA: NO SMALL RIB NO LARGE RIB
				<b>XC10639D</b>	<b>295.275</b> 11.6250	<b>34.925</b> 1.3750	<b>.3</b> .01	
<b>*XC10740C</b>	<b>149.974</b> 5.9045	<b>77.788</b> 3.0625	<b>2.0</b> .08					XC10639C: NO SMALL RIB NO LARGE RIB
<b>XC10836CG</b>	<b>29.975</b> 1.1801	<b>16.764</b> .6600	<b>.8</b> .03					XC10639CA: NO LARGE RIB NO SMALL RIB
<b>XC10836CU</b>	<b>25.400</b> 1.0000	<b>16.231</b> .6390	<b>.8</b> .03					XC10740C: SHOULDER ON ID BACKFACE HOLES IN ID BACKFACE GROOVE IN ID BACKFACE
				<b>*XC10740D</b>	<b>276.300</b> 10.8780	<b>177.800</b> 7.0000	<b>N/A</b> N/A	
				<b>*XC11087DA</b>	<b>82.931</b> 3.2650	<b>22.258</b> .8763	<b>.8</b> .03	
				<b>XC11087DL</b>	<b>80.035</b> 3.1510	<b>19.759</b> .7779	<b>1.5</b> .06	
				<b>XC11087DN</b>	<b>83.033</b> 3.2690	<b>19.050</b> .7500	<b>.8</b> .03	



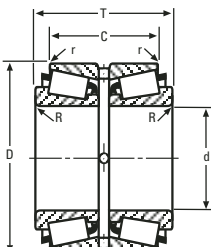
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

13

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\* See Remarks Column.

NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>XC11087DP</b>	<b>83.795</b> 3.2990	<b>19.050</b> .7500	<b>.8</b> .03	
<b>*XC11088CC</b>	<b>40.988</b> 1.6137	<b>18.000</b> .7087	spcl. spcl.	<b>XC11088D</b>	<b>67.975</b> 2.6762	<b>13.500</b> .5315	<b>1.5</b> .06	
<b>*JXC11438CA</b>	<b>183.000</b> 7.2047	<b>42.000</b> 1.6535	<b>1.0</b> .04	<b>JXC11438DA</b>	<b>260.000</b> 10.2362	<b>38.000</b> 1.4961	<b>3.5</b> .14	JXC11438CA: MADE FROM SPECIAL STEEL GROOVE IN ID BACKFACE SHOULDER ON ID BACKFACE
<b>*XC11438C</b>	<b>182.974</b> 7.2037	<b>42.000</b> 1.6535	<b>1.0</b> .04	<b>XC11438D</b>	<b>259.974</b> 10.2352	<b>38.000</b> 1.4961	<b>3.5</b> .14	XC11438C: GROOVE IN ID BACKFACE SHOULDER ON ID BACKFACE
<b>*JXC11439CA</b>	<b>140.000</b> 5.5118	<b>55.000</b> 2.1654	<b>1.0</b> .04	<b>JXC11439DA</b>	<b>219.000</b> 8.6220	<b>48.000</b> 1.8898	<b>3.5</b> .14	JXC11439CA: GROOVE IN ID BACKFACE SHOULDER ON ID BACKFACE
<b>*XC11439C</b>	<b>139.974</b> 5.5108	<b>55.000</b> 2.1654	<b>1.0</b> .04	<b>XC11439D</b>	<b>218.973</b> 8.6210	<b>48.000</b> 1.8898	<b>3.5</b> .14	XC11439C: SHOULDER ON ID BACKFACE GROOVE IN ID BACKFACE
<b>*JXC11440CA</b>	<b>138.000</b> 5.4331	<b>42.000</b> 1.6535	<b>1.0</b> .04	<b>JXC11440DA</b>	<b>205.000</b> 8.0709	<b>38.000</b> 1.4961	<b>3.5</b> .14	JXC11440CA: SHOULDER ON ID BACKFACE GROOVE IN ID BACKFACE
<b>*XC11440C</b>	<b>137.975</b> 5.4321	<b>42.000</b> 1.6535	<b>1.0</b> .04	<b>XC11440D</b>	<b>204.975</b> 8.0699	<b>38.000</b> 1.4961	<b>3.5</b> .14	XC11440C: GROOVE IN ID BACKFACE SHOULDER ON ID BACKFACE
<b>*XC12087C</b>	<b>147.975</b> 5.8258	<b>48.003</b> 1.8899	<b>2.0</b> .08	<b>XC12087D</b>	<b>229.974</b> 9.0541	<b>40.000</b> 1.5748	<b>3.0</b> .12	XC12087C: SHOULDER ON ID BACKFACE GROOVE IN ID BACKFACE
<b>*XC12088C</b>	<b>307.950</b> 12.1240	<b>39.000</b> 1.5354	<b>1.0</b> .04	<b>XC12088D</b>	<b>377.949</b> 14.8799	<b>32.822</b> 1.2922	<b>2.5</b> .10	XC12088C: GROOVE IN ID BACKFACE SHOULDER ON ID BACKFACE
<b>*XC12089C</b>	<b>303.974</b> 11.9675	<b>38.000</b> 1.4961	<b>1.0</b> .04	<b>XC12089D</b>	<b>357.950</b> 14.0925	<b>26.000</b> 1.0236	<b>2.5</b> .10	XC12089C: GROOVE IN ID BACKFACE
<b>JXC12237CB</b>	<b>90.000</b> 3.5433	<b>34.000</b> 1.3386	<b>3.0</b> .12					
<b>*XC12237CA</b>	<b>86.000</b> 3.3858	<b>34.000</b> 1.3386	<b>3.0</b> .12	<b>*XC12237D</b>	<b>140.000</b> 5.7087	<b>27.000</b> 1.0630	<b>2.5</b> .10	XC12237CA: MADE FROM VACUUM MELT STEEL XC12237D: MADE FROM VACUUM MELT STEEL
<b>XC12890C</b>	<b>177.800</b> 7.0000	<b>19.583</b> .7710	<b>1.5</b> .06					
<b>*XC14387CC</b>	<b>317.500</b> 12.5000	<b>85.725</b> 3.3750	<b>3.5</b> .14					XC14387CC: NO SMALL RIB SHOULDER ON OD FRONTFACE
<b>XC14389C</b>	<b>284.975</b> 11.2195	<b>30.162</b> 1.1875	<b>3.5</b> .14	<b>XC14389D</b>	<b>349.949</b> 13.7775	<b>22.225</b> .8750	<b>3.3</b> .13	
<b>XC14390C</b>	<b>289.974</b> 11.4163	<b>46.038</b> 1.8125	<b>3.5</b> .14	<b>XC14390D</b>	<b>374.950</b> 14.7618	<b>34.925</b> 1.3750	<b>3.3</b> .13	
<b>*XC14637C</b>	<b>146.050</b> 5.7500	<b>28.575</b> 1.1250	<b>1.5</b> .06	<b>XC14637D</b>	<b>193.675</b> 7.6250	<b>23.020</b> .9063	<b>1.5</b> .06	XC14637C: MADE FROM VACUUM MELT STEEL
<b>XC14638C</b>	<b>75.000</b> 2.9528	<b>25.000</b> .9843	<b>3.0</b> .12					

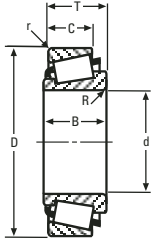
<sup>1</sup>These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
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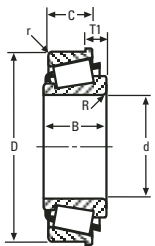
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NP and XC PARTS

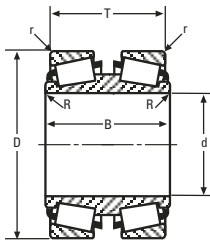
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*XC14886C	184.150	33.000	2.0	XC14638D	115.000	19.000	2.5	XC14886C: MADE FROM VACUUM MELT STEEL
	7.2500	1.2992	.08	XC14638DA	4.5276	.7480	.10	
*XC15886C	355.600	128.587	1.5	*XC14886D	235.229	28.000	2.0	XC14886D: MADE FROM VACUUM MELT STEEL
	14.0000	5.0625	.06		9.2610	1.1024	.08	XC15886C: MADE FROM SPECIAL STEEL
*JXC15888CD	190.000	109.000	3.0	*XC15886D	482.600	52.388	3.3	XC15886D: MADE FROM SPECIAL STEEL
	7.4803	4.2913	.12		19.0000	2.0625	.13	JXC15888CD: INVERTED BEARING
XC15888C	190.000	44.000	3.0	JXC15888DA	260.000	36.500	2.5	XC15888C: MADE FROM SPECIAL STEEL
XC15888CA	185.000	44.000	3.0		10.2362	1.4370	.10	
XC15889C	95.250	73.025	3.3	XC15888D	260.000	36.500	2.5	XC15888D: MADE FROM SPECIAL STEEL
XC15890C	100.000	40.000	3.0		10.2362	1.4370	.10	
XC16686CB	80.000	49.212	2.0	XC16690DB	62.000	11.300	2.0	XC16686CB: MADE FROM SPECIAL STEEL
XC17338C	50.000	28.575	3.5		2.4409	.4449	.08	
*JXC17935CM	38.000	17.000	spcl.	XC17338D	115.000	20.638	3.5	JXC17935CM: SPECIAL BACKFACE RADIUS
*JXC17935CNA	38.000	19.000	spcl.		4.5276	.8125	.14	JXC17935CNA: EXTENDED SMALL RIB
*JXC17935CT	38.000	19.000	2.0	JXC17935DJ	63.000	13.500	1.3	JXC17935CT: EXTENDED SMALL RIB
	1.4961	.7480	.08		2.4803	.5315	.05	SPECIAL SMALL RIB
	1.4961	.7480	.08	JXC17935DK	63.000	13.500	1.3	JXC17935DM: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
	1.4961	.7480	.08		2.4803	.5315	.05	
*XC17940C	304.800	50.800	6.4	*JXC17935DM	63.000	13.500	1.3	XC17940C: SHOULDER ON OD FRONTFACE NO SMALL RIB
*XC17940CB	304.800	50.800	6.4		2.4803	.5315	.05	
*XC17940CC	304.800	50.800	6.4	*XC17940DD	393.700	82.550	1.5	XC17940CB: NO SMALL RIB
	12.0000	2.0000	.25		15.5000	3.2500	.06	SHOULDER ON OD FRONTFACE
	12.0000	2.0000	.25	XC18136D	240.310	37.000	2.5	XC17940CC: MADE FROM SPECIAL STEEL
	12.0000	2.0000	.25		9.4610	1.4567	.10	XC17940DD: HOLES IN OD CENTER GROOVE IN OD CENTER MADE FROM SPECIAL STEEL
	12.0000	2.0000	.25	XC18140D	140.000	22.000	1.5	
*JXC18437CA	41.000	21.000	2.0		5.5118	.8661	.06	JXC18437CA: FRONTFACE CHAMFER EXTENDED SMALL RIB
XC18438C	170.000	38.000	3.0	XC18438D	230.000	31.000	2.5	XC18438C: MADE FROM SPECIAL STEEL
XC18438CA	165.000	38.000	3.0		9.0551	1.2205	.10	



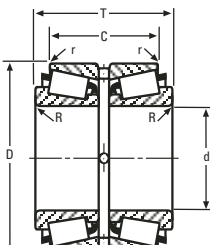
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

13

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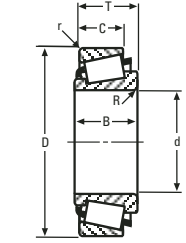
CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*JXC18439CA	45.000 1.7717	32.000 1.2598	6.0 .24					JXC18439CA: FRONTFACE CHAMFER
				JXC18439DA	85.000 3.3465	25.000 .9843	1.5 .06	
*XC18440C	28.000 1.1024	19.205 .7561	1.0 .04					XC18440C: FRONTFACE CHAMFER EXTENDED SMALL RIB
*JXC19087CD	55.000 2.1654	38.000 1.4961	.8 .03					JXC19087CD: FRONTFACE CHAMFER
*JXC19087CG	50.000 1.9685	36.000 1.4173	.8 .03					JXC19087CG: FRONTFACE CHAMFER
*JXC19087CM	57.000 2.2441	48.210 1.8980	2.0 .08					JXC19087CM: EXTENDED SMALL RIB
*JXC19087CN	57.000 2.2441	52.275 2.0580	7.0 .28					GROOVE IN ID FRONTFACE
				*JXC19087D	110.000 4.3307	29.000 1.1417	1.5 .06	JXC19087CN: EXTENDED SMALL RIB GROOVE IN ID FRONTFACE
*JXC19089CB	65.000 2.5591	31.000 1.2205	.5 .02					JXC19087D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				*JXC19089DA	135.000 5.3150	34.000 1.3386	.5 .02	
JXC19090CB	30.000 1.1811	18.755 .7384	2.5 .10					JXC19089CB: FRONTFACE CHAMFER
JXC19090CC	30.000 1.1811	19.755 .7777	2.5 .10					JXC19089DA: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				JXC19090DA	60.000 2.3622	37.000 1.4567	.5 .02	
				*JXC19090DB	58.000 2.2835	39.000 1.5354	N/A N/A	JXC19090DB: CHAMFER ON RIGHTFACE OD CHAMFER ON LEFTFACE OD
XC19090CA	25.000 .9843	17.793 .7005	3.5 .14					
*XC19936C	80.000 3.1496	44.900 1.7677	1.0 .04					XC19936C: SHOULDER ON ID BACKFACE FRONTFACE CHAMFER EXTENDED LARGE RIB
*XC19937C	90.000 3.5433	50.600 1.9921	1.0 .04					
*JXC19939C	100.000 3.9370	35.000 1.3780	spcl. spcl.					XC19937C: FRONTFACE CHAMFER SHOULDER ON ID BACKFACE
*JXC20436CA	130.000 5.1181	27.000 1.0630	3.0 .12					JXC19939C: SPECIAL BACKFACE RADIUS
				*JXC20436DC	188.050 7.4035	21.765 .8568	3.0 .12	JXC20436CA: HOLES IN BACKFACE TO UNDERCUT JXC20436DC: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
JXC20440C	57.000 2.2441	19.000 .7480	1.5 .06					
				XC23930D	90.000 3.5433	24.500 .9646	1.5 .06	
*JXC25368C	30.000 1.1811	28.000 1.1024	1.5 .06					JXC25368C: FRONTFACE CHAMFER
JXC25369C	63.000 2.4803	28.000 1.1024	3.0 .12					
*JXC25370CA	45.000 1.7717	20.000 .7874	3.5 .14					JXC25370CA: FRONTFACE CHAMFER
				JXC25370DA	75.000 2.9528	15.500 .6102	1.0 .04	
*JXC25373C	85.000 3.3465	32.000 1.2598	3.0 .12					JXC25373C: GROOVE IN OD BACKFACE EXTENDED LARGE RIB
*JXC25375C	42.000 1.6535	19.790 .7792	spcl. spcl.					JXC25375C: SPECIAL BACKFACE RADIUS
JXC25375CC	42.000 1.6535	18.790 .7398	3.5 .14					
JXC25375CD	39.000 1.5354	18.790 .7398	3.5 .14					
				*JXC25375D	72.000 2.8346	39.000 1.5354	spcl. spcl.	JXC25375D: SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD
				*JXC25375DB	72.000 2.8346	37.000 1.4567	spcl. spcl.	JXC25375DB: SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD
				*JXC25378DA	140.000 5.5118	27.000 1.0630	3.0 .12	

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\* See Remarks Column.

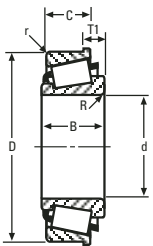
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13

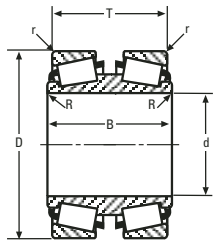
**NP and XC PARTS**



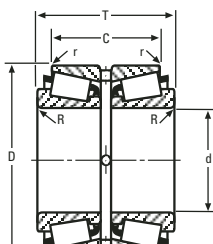
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>JXC25378DB</b>	<b>140.000</b>	<b>27.000</b>	<b>3.0</b>	JXC25378DA: MADE FROM VACUUM MELT STEEL
					5.5118	1.0630	.12	
				<b>XC25378D</b>	<b>150.000</b>	<b>27.000</b>	<b>3.0</b>	
					5.9055	1.0630	.12	
<b>JXC25381CC</b>	<b>70.000</b>	<b>42.000</b>	<b>7.0</b>					
	2.7559	1.6535	.28					
<b>*JXC25381CD</b>	<b>70.010</b>	<b>53.730</b>	<b>3.0</b>					JXC25381CD: GROOVE IN ID FRONTFACE EXTENDED SMALL RIB
	2.7563	2.1153	.12					
<b>*JXC25381CE</b>	<b>70.010</b>	<b>61.525</b>	<b>8.0</b>					JXC25381CE: GROOVE IN ID FRONTFACE EXTENDED SMALL RIB
	2.7563	2.4223	.31					
				<b>JXC25381DA</b>	<b>130.000</b>	<b>35.000</b>	<b>2.5</b>	
					5.1181	1.3780	.10	
<b>*XC25384C</b>	<b>105.000</b>	<b>35.000</b>	<b>6.0</b>					XC25384C: FRONTFACE CHAMFER
	4.1339	1.3780	.24					
				<b>XC25388D</b>	<b>140.000</b>	<b>24.000</b>	<b>2.5</b>	
					5.7087	.9449	.10	
<b>*JXC25389CE</b>	<b>55.000</b>	<b>35.000</b>	<b>2.0</b>					JXC25389CE: FRONTFACE CHAMFER
	2.1654	1.3780	.08					
				<b>JXC25389D</b>	<b>100.000</b>	<b>27.000</b>	<b>1.5</b>	
					3.9370	1.0630	.06	
<b>JXC25390C</b>	<b>32.000</b>	<b>34.000</b>	<b>.8</b>					
	1.2598	1.3386	.03					
<b>JXC25396C</b>	<b>45.000</b>	<b>24.000</b>	<b>3.5</b>					
	1.7717	.9449	.14					
				<b>JXC25396D</b>	<b>75.000</b>	<b>15.000</b>	<b>2.3</b>	
					2.9528	.5906	.09	
<b>*JXC25414C</b>	<b>73.000</b>	<b>34.000</b>	<b>spcl.</b>					JXC25403DA: SHOULDER ON ID FRONTFACE
	2.8740	1.3386	spcl.					JXC25414C: BACKFACE CHAMFER SHOULDER ON ID BACKFACE
				<b>*JXC25414D</b>	<b>130.000</b>	<b>28.500</b>	<b>2.5</b>	JXC25414D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
					5.1181	1.1220	.10	
<b>JXC25423C</b>	<b>32.000</b>	<b>15.000</b>	<b>3.5</b>					
	1.2598	.5906	.14					
				<b>JXC25423D</b>	<b>53.000</b>	<b>11.500</b>	<b>1.3</b>	
					2.0866	.4528	.05	
<b>*JXC25424C</b>	<b>49.000</b>	<b>21.680</b>	<b>spcl.</b>					JXC25424C: SPECIAL BACKFACE RADIUS
	1.9291	.8535	spcl.					
<b>JXC25426C</b>	<b>94.000</b>	<b>24.000</b>	<b>.8</b>					
	3.7008	.9449	.03					
				<b>JXC25426D</b>	<b>130.175</b>	<b>15.000</b>	<b>.8</b>	
					5.1250	.5906	.03	
<b>JXC25427C</b>	<b>93.980</b>	<b>49.000</b>	<b>1.5</b>					
	3.7000	1.9291	.06					
				<b>JXC25427D</b>	<b>152.400</b>	<b>30.000</b>	<b>1.5</b>	
					6.0000	1.1811	.06	
<b>*JXC25428C</b>	<b>99.000</b>	<b>35.000</b>	<b>spcl.</b>					JXC25428C: FRONTFACE CHAMFER SPECIAL BACKFACE RADIUS
	3.8976	1.3780	spcl.					
<b>*XC25433C</b>	<b>142.875</b>	<b>35.300</b>	<b>3.5</b>					XC25433C: MADE FROM VACUUM MELT STEEL
	5.6250	1.3898	.14					
				<b>*XC25433DA</b>	<b>194.975</b>	<b>27.500</b>	<b>3.5</b>	XC25433DA: MADE FROM VACUUM MELT STEEL
					7.6762	1.0827	.14	
<b>JXC25437CG</b>	<b>100.000</b>	<b>28.255</b>	<b>3.0</b>					
	3.9370	1.1124	.12					
				<b>*JXC25437D</b>	<b>140.000</b>	<b>34.000</b>	<b>.8</b>	JXC25437D: SHOULDER ON ID FRONTFACE FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION GROOVE IN OD BACKFACE
					5.7087	1.3386	.03	
<b>JXC25437DD</b>	<b>140.000</b>	<b>17.500</b>	<b>3.0</b>					
	5.7087	.6890	.12					
<b>JXC25439CA</b>	<b>38.000</b>	<b>25.000</b>	<b>2.0</b>					
	1.4961	.9843	.08					
<b>*JXC25440C</b>	<b>85.000</b>	<b>36.000</b>	<b>7.5</b>					JXC25440C: FRONTFACE CHAMFER
	3.3465	1.4173	.30					
<b>*JXC25441C</b>	<b>95.000</b>	<b>43.000</b>	<b>6.0</b>					JXC25441C: FRONTFACE CHAMFER
	3.7402	1.6929	.24					

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NP and XC PARTS

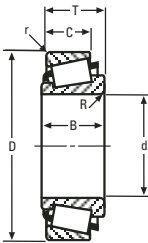
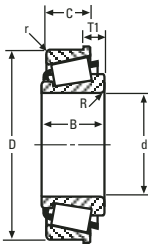
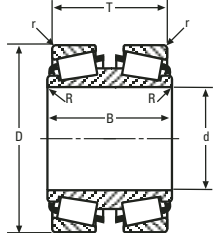
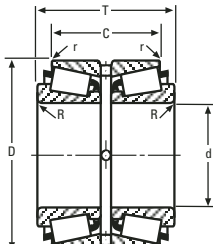
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*JXC25442CA	235.000 9.2520	45.000 1.7717	spcl. spcl.	JXC25442DA	295.000 11.6142	36.000 1.4173	3.0 .12	JXC25442CA: BACKFACE CHAMFER
XC25445C	350.520 13.8000	26.988 1.0625	.8 .03	*XC25445D	431.800 17.0000	24.765 .9750	1.0 .04	XC25445D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
XC25446C	361.950 14.2500	30.162 1.1875	6.4 .25	*XC25446D	444.500 17.5000	26.911 1.0595	1.0 .04	XC25446D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
*JXC25448C	180.000 7.0866	43.000 1.6929	3.0 .12					JXC25448C: GROOVE IN OD BACKFACE EXTENDED LARGE RIB
*XC25454C	259.931 10.2335	33.470 1.3177	1.5 .06					XC25454C: EXTENDED SMALL RIB
JXC25455C	38.000 1.4961	15.000 .5906	.8 .03	JXC25455D	58.000 2.2835	12.000 .4724	.8 .03	XC25457C: SHOULDER ON OD BACKFACE HOLES IN BACKFACE TO UNDERCUT
*XC25457C	447.675 17.6250	44.450 1.7500	3.3 .13					JXC25458C: GROOVE IN OD BACKFACE NO LARGE RIB STRAIGHT OD
*JXC25458C	490.000 19.2913	76.000 2.9921	3.0 .12	*JXC25458D	610.000 24.0157	110.000 4.3307	3.0 .12	JXC25458D: SHOULDER ON ID FRONTFACE STEPPED OD FRONTFACE
				JXC25459DB	130.000 5.1181	65.000 2.5591	2.0 .08	XC25468C: HOLES IN BACKFACE TO UNDERCUT
*XC25468C	215.900 8.5000	46.038 1.8125	3.5 .14					JXC25469C: SPECIAL BACKFACE RADIUS
*JXC25469C	49.000 1.9291	21.500 .8465	spcl. spcl.					
JXC25469CC	49.000 1.9291	24.000 .9449	2.8 .11					
JXC25479C	42.000 1.6535	19.500 .7677	3.5 .14					
JXC25479CC	42.000 1.6535	19.500 .7677	4.0 .16					
JXC25479CD	42.000 1.6535	19.500 .7677	1.0 .04					
JXC25479CE	42.000 1.6535	19.500 .7677	4.0 .16					
JXC25479CF	42.000 1.6535	19.500 .7677	1.0 .04					
JXC25479CG	42.000 1.6535	19.500 .7677	4.0 .16					
JXC25479CH	42.000 1.6535	19.500 .7677	1.0 .04					
JXC25479CJ	39.980 1.5740	20.000 .7874	3.3 .13					
XC25483C	1397.000 55.0000	117.475 4.6250	12.2 .48	*XC25483D	1735.000 68.3071	190.500 7.5000	3.3 .13	XC25483D: FLANGE ON OD LEFTFACE GROOVE IN OD CENTER
XC25484C	254.000 10.0000	114.300 4.5000	3.5 .14	*XC25484D	498.000 19.6063	260.000 10.2362	1.5 .06	XC25484D: SHOULDER ON OD RIGHTFACE
				XC25484DA	521.300 20.5236	260.000 10.2362	1.5 .06	
XC25486C	250.825 9.8750	20.638 .8125	2.0 .08	XC25486D	292.100 11.5000	15.875 .6250	2.0 .08	
XC25489C	1397.000 55.0000	117.475 4.6250	3.0 .12					

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks			
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C					
 <p><b>SINGLE ROW</b></p>	*XC25607C	209.550 8.2500	74.612 2.9375	1.5 .06	XC25489D *XC25493D XC25601D *XC25601DA XC25607D	1600.000 62.9921 323.825 12.7490 615.950 24.2500 615.950 24.2500 307.975 12.1250	46.038 1.8125 50.800 2.0000 59.246 2.3325 62.420 2.4575 167.483 6.5938	6.0 .24 .8 .03 6.4 .25 4.6 .18 1.6 .06	XC25493D: HOLES IN RIGHTFACE ASYMMETRICAL BEARING  XC25601DA: SLOTS IN BACKFACE  XC25607C: EXTENDED SMALL RIB		
	*XC25611C	103.124 4.0600	16.510 .6500	3.5 .14	XC25611D	131.318 5.1700	12.174 .4793	4.0 .16	XC25611C: MADE FROM SPECIAL STEEL		
	*XC25611CA	103.124 4.0600	16.510 .6500	3.5 .14	*XC25611DA	131.318 5.1700	12.174 .4793	4.0 .16	XC25611CA: MADE FROM SPECIAL STEEL		
	*XC25611CB	103.124 4.0600	16.510 .6500	3.5 .14	*XC25611DB	131.318 5.1700	12.174 .4793	4.0 .16	XC25611CB: MADE FROM SPECIAL STEEL		
	 <p><b>SINGLE ROW WITH FLANGE</b></p>	*XC25614C	28.575 1.1250	15.276 .6014	3.5 .14	XC25614D	50.292 1.9800	10.749 .4232	1.3 .05	XC25614C: MADE FROM SPECIAL STEEL	
		*JXC25618C	35.000 1.3780	18.000 .7087	1.0 .04	JXC25618D	72.000 2.8346	44.000 1.7323	1.0 .04	JXC25618C: NO SMALL RIB BROKEN FRONTFACE ID NO LARGE RIB STRAIGHT OD	
		*XC25619C	101.600 4.0000	158.750 6.2500	.8 .03	JXC25619D	165.000 6.4961	28.000 1.1024	1.0 .04	JXC25619D: GROOVE IN ID FRONTFACE BROKEN CORNER ON FRONTFACE OD HOLES IN OD CENTER	
		*XC25619CA	101.600 4.0000	158.750 6.2500	.8 .03	*JXC25620D	52.000 2.0472	37.000 1.4567	spcl. spcl.	XC25619C: HOLES IN OD RIGHTFACE EXTENDED SMALL RIB	
		JXC25620C	25.000 .9843	18.755 .7384	1.0 .04		*JXC25620DA	52.000 2.0472	37.000 1.4567	spcl. spcl.	JXC25620C: EXTENDED SMALL RIB HOLES IN OD RIGHTFACE
		XC25626C	41.275 1.6250	28.481 1.1213	3.5 .14	XC25626D	79.375 3.1250	20.193 .7950	3.3 .13	JXC25620DA: SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD	
		 <p><b>DOUBLE CONE</b></p>	*JXC25632C	80.000 3.1496	41.000 1.6142	3.0 .12	*JXC25629D	60.000 2.3622	13.000 .5118	1.5 .06	JXC25626D: SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD
			*JXC25640CB	30.000 1.1811	18.100 .7126	1.5 .06	*XC25639D	152.400 6.0000	31.242 1.2300	3.3 .13	JXC25629D: SHOULDER ON ID FRONTFACE
*JXC25640CC			30.000 1.1811	18.100 .7126	1.5 .06	*XC25640D	62.020 2.4417	15.535 .6117	1.5 .06	JXC25632C: NO LARGE RIB SHOULDER ON OD BACKFACE	
*XC25643C			50.800 2.0000	88.900 3.5000	.8 .03		*JXC25640DA	62.020 2.4417	15.535 .6117	1.5 .06	XC25639D: SHOULDER ON ID BACKFACE
 <p><b>DOUBLE CUP</b></p>			*XC25643D	88.900 3.5000	.8 .03	XC25640D	88.900 3.5000	18.000 .7087	1.0 .04	JXC25640CB: FRONTFACE CHAMFER	
						JXC25640D	88.900 3.5000	18.000 .7087	1.0 .04	JXC25640CC: FRONTFACE CHAMFER JXC25640D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION CHAMFER ON FRONTFACE OD	
										JXC25640DA: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION CHAMFER ON FRONTFACE OD	

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CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
JXC25647C	64.000 2.5197	28.355 1.1164	1.5 .06					XC25643C: EXTENDED SMALL RIB
JXC25647CB	64.025 2.5206	28.355 1.1164	1.5 .06					
				*JXC25647D	117.000 4.6063	54.145 2.1317	N/A N/A	JXC25647D: HOLES IN OD CENTER GROOVE IN OD CENTER
				*JXC25647DA	117.000 4.6063	58.640 2.3087	N/A N/A	ASYMMETRICAL - TWO SERIES BEARING
JXC25648C	64.000 2.5197	23.535 .9266	1.5 .06					JXC25647DA: ASYMMETRICAL - TWO SERIES BEARING HOLES IN OD CENTER GROOVE IN OD CENTER
JXC25648CA	70.000 2.7559	23.535 .9266	1.5 .06					
*JXC25662C	32.000 1.2598	29.500 1.1614	.8 .03					JXC25662C: FRONTFACE CHAMFER
*JXC25663CA	70.000 2.7559	40.000 1.5748	3.0 .12					JXC25663CA: FRONTFACE CHAMFER
				JXC25663DA	150.000 5.9055	31.750 1.2500	.5 .02	JXC25665CA: FRONTFACE CHAMFER
*JXC25665CA	28.000 1.1024	32.000 1.2598	2.5 .10					JXC25665CC: FRONTFACE CHAMFER
*JXC25665CC	28.000 1.1024	32.000 1.2598	2.5 .10					JXC25668CA: SPECIAL FRONTFACE RADIUS SPECIAL BACKFACE RADIUS
*JXC25668CA	38.000 1.4961	18.000 .7087	spcl. spcl.					
				JXC25668D	74.000 2.9134	16.500 .6496	2.0 .08	
XC25672CB	129.967 5.1168	74.500 2.9331	1.5 .06					
				*XC25672DA	239.873 9.4438	160.000 6.2992	spcl. spcl.	XC25672DA: SPECIAL RADIUS ON RIGHTFACE OD HOLES IN OD CENTER SPECIAL RADIUS ON LEFTFACE OD
*JXC25678CA	55.000 2.1654	23.000 .9055	3.0 .12					
				*JXC25678D	90.000 3.5433	17.500 .6890	1.5 .06	JXC25678CA: FRONTFACE CHAMFER
*JXC25679CB	110.000 4.3307	38.000 1.4961	6.5 .26					JXC25678D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION SPECIAL RADIUS ON FRONTFACE OD
				*XC25685DB	457.098 17.9960	36.551 1.4390	.5 .02	
				XC25685DD	457.098 17.9960	41.051 1.6162	3.3 .13	JXC25679CB: FRONTFACE CHAMFER
				*XC25685DE	457.098 17.9960	61.397 2.4172	3.3 .13	XC25685DB: SHOULDER ON OD BACKFACE
*JXC25690C	45.000 1.7717	27.000 1.0630	2.5 .10					XC25685DE: GROOVE IN OD CENTER SHOULDER ON ID BACKFACE
				JXC25690DA	110.000 4.3307	22.000 .8661	2.0 .08	JXC25690C: FRONTFACE CHAMFER
				*JXC25690DC	110.000 4.3307	23.000 .9055	2.0 .08	
XC25697CA	142.875 5.6250	45.245 1.7813	2.5 .10					JXC25690DC: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				XC25697D	206.375 8.1250	34.529 1.3594	3.3 .13	
				XC25700DA	152.400 6.0000	35.100 1.3819	3.3 .13	
				JXC25702D	140.000 5.5118	28.000 1.1024	.4 .01	
*JXC25712C	80.000 3.1496	29.000 1.1417	1.5 .06					JXC25712C: FRONTFACE CHAMFER
*JXC25712CB	80.000 3.1496	29.000 1.1417	5.3 .21					JXC25712CB: FRONTFACE CHAMFER
				JXC25712D	125.000 4.9213	22.000 .8661	1.5 .06	JXC25715C: FRONTFACE CHAMFER
*JXC25715C	40.000 1.5748	38.000 1.4961	2.5 .10					

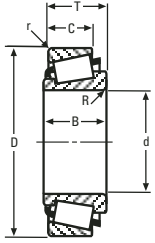
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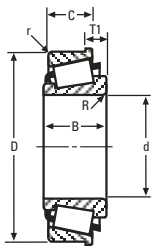


NP and XC PARTS

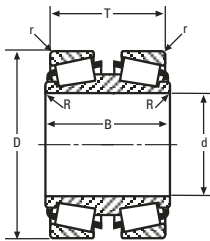
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*JXC25716C	75.000 2.9528	25.000 .9843	1.5 .06	*JXC25716CA	75.000 2.9528	25.000 .9843	4.0 .16	JXC25716C: FRONTFACE CHAMFER JXC25716CA: FRONTFACE CHAMFER
				JXC25716D	115.000 4.5276	19.000 .7480	1.5 .06	
				*XC25717D	69.474 2.7352	22.225 .8750	1.5 .06	XC25717D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION SPECIAL RADIUS ON FRONTFACE OD
*JXC25723C	70.000 2.7559	37.000 1.4567	2.0 .08					JXC25723C: FRONTFACE CHAMFER
*JXC25723CA	68.000 2.6772	55.305 2.1773	2.0 .08					JXC25723CA: GROOVE IN ID FRONTFACE
*JXC25723CB	68.000 2.6772	60.000 2.3622	spcl. spcl.					JXC25723CB: SPECIAL BACKFACE RADIUS FRONTFACE CHAMFER GROOVE IN ID FRONTFACE
*JXC25723CC	68.200 2.6850	60.000 2.3622	8.0 .32	JXC25723D	120.000 4.7244	29.000 1.1417	1.5 .06	JXC25723CC: GROOVE IN ID FRONTFACE
*XC25727C	146.050 5.7500	41.900 1.6496	3.5 .14	*XC25727D	203.200 8.0000	38.100 1.5000	3.5 .14	XC25727C: MADE FROM VACUUM MELT STEEL
				XC25736D	495.554 19.5100	88.900 3.5000	6.4 .25	XC25727D: MADE FROM VACUUM MELT STEEL
*JXC25739CA	55.000 2.1654	31.000 1.2205	3.0 .12	JXC25739D	115.000 4.5276	23.500 .9252	3.0 .12	JXC25739CA: FRONTFACE CHAMFER
*JXC25743C	45.975 1.8100	22.750 .8957	2.3 .09	JXC25743D	83.500 3.2874	17.500 .6890	1.5 .06	JXC25743C: FRONTFACE CHAMFER
*XC25745C	76.200 3.0000	7.620 .3000	1.3 .05	XC25745D	98.425 3.8750	7.145 .2813	1.3 .05	XC25745C: FRONTFACE CHAMFER NO SMALL RIB
XC25750C	90.000 3.5433	22.000 .8661	1.5 .06	*XC25750DA	135.000 5.3150	39.000 1.5354	.5 .02	XC25750DA: GROOVE IN OD CENTER HOLES IN OD CENTER
				*XC25756D	144.633 5.6942	44.846 1.7656	spcl. spcl.	XC25756D: SPECIAL RADIUS ON RIGHTFACE OD SPECIAL RADIUS ON LEFTFACE OD SPHERICAL OD HOLES IN OD CENTER
*JXC25763C	50.000 1.9685	23.000 .9055	3.0 .12	JXC25763D	95.000 3.7402	19.000 .7480	1.5 .06	JXC25763C: FRONTFACE CHAMFER
*XC25767CA	142.024 5.5915	15.969 .6287	spcl. spcl.	*XC25767DA	191.834 7.5525	35.116 1.3825	1.2 .04	XC25767CA: BACKFACE CHAMFER FRONTFACE CHAMFER NO SMALL RIB
*XC25768CA	151.973 5.9832	15.016 .5912	5.3 .21	*XC25768DA	197.957 7.7936	10.485 .4128	5.5 .22	XC25767DA: CHAMFER ON FRONTFACE OD CHAMFER ON BACKFACE OD THREADED OD FRONTFACE
*JXC25769C	50.000 1.9685	29.000 1.1417	6.0 .24	*XC25772D	237.249 9.3405	73.914 2.9100	spcl. spcl.	XC25768CA: NO SMALL RIB
*JXC25779C	55.000 2.1654	25.165 .9908	1.5 .06	XC25779D	96.838 3.8125	15.875 .6250	.8 .03	XC25768DA: BROKEN CORNER ON FRONTFACE OD
JXC25780C	40.000 1.5748	24.700 .9724	1.5 .06	*JXC25780D	95.000 3.7402	39.800 1.5669	1.5 .06	JXC25779C: FRONTFACE CHAMFER
								XC25772D: HOLES IN OD CENTER SPHERICAL OD SPECIAL RADIUS ON LEFTFACE OD SPECIAL RADIUS ON RIGHTFACE OD



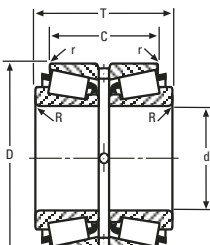
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

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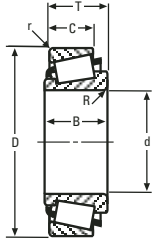
CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*JXC25784C	28.000 1.1024	35.800 1.4094	2.5 .10	*XC25789D	177.800 7.0000	48.293 1.9013	spcl. spcl.	JXC25779C: EXTENDED SMALL RIB JXC25780D: FLANGE ON OD RIGHTFACE ASYMMETRICAL - TWO SERIES BEARING SHOULDER ON OD LEFTFACE
*JXC25799C	90.000 3.5433	16.000 .6299	1.0 .04	JXC25799D	115.020 4.5283	8.815 .3471	1.0 .04	JXC25784C: FRONTFACE CHAMFER
XC25820C	433.388 17.0625	27.783 1.0938	.8 .03	*JXC25806D	100.000 3.9370	21.000 .8268	1.5 .06	XC25789D: SPECIAL RADIUS ON RIGHTFACE OD SPHERICAL OD HOLES IN OD CENTER
XC25823C	234.848 9.2460	50.008 1.9688	3.5 .14	*XC25820D	485.775 19.1250	21.433 .8438	3.3 .13	SPECIAL RADIUS ON LEFTFACE OD JXC25799C: FRONTFACE CHAMFER EXTENDED LARGE RIB
XC25824C	76.200 3.0000	53.183 2.0938	3.5 .14	*XC25823D	311.150 12.2500	33.338 1.3125	3.3 .13	JXC25806D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
*XC25831CB	149.967 5.9042	70.000 2.7559	3.0 .12	*XC25831DA	249.872 9.8375	160.000 6.2992	N/A N/A	XC25820D: GROOVE IN ID FRONTFACE SHOULDER ON ID FRONTFACE
*XC25868C	196.850 7.7500	44.450 1.7500	3.5 .14	*XC25862D	152.425 6.0010	53.183 2.0938	N/A N/A	XC25823D: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
NP005797	190.500 7.5000	46.833 1.8438	3.5 .14	*XC25876D	130.962 5.1560	42.860 1.6874	N/A N/A	XC25831CB: FRONTFACE CHAMFER
NP006115	71.438 2.8125	36.512 1.4375	3.5 .14	*XC25877D	185.763 7.3135	62.309 2.4531	N/A N/A	XC25831DA: GROOVE IN OD CENTER
NP006327	75.000 2.9528	51.000 2.0079	3.0 .12	*XC25880D	223.838 8.8125	84.930 3.3437	N/A N/A	XC25862D: SPHERICAL OD HOLES IN OD CENTER
NP008789	119.957 4.7227	57.500 2.2638	1.5 .06	*XC25888D	201.612 7.9375	75.408 2.9688	N/A N/A	XC25868C: EXTENDED SMALL RIB
NP008806	266.700 10.5000	109.538 4.3125	1.5 .06	*XC25889D	293.726 11.5640	113.508 4.4688	N/A N/A	XC25876D: HOLES IN OD CENTER SPHERICAL OD
*NP009805	38.100 1.5000	29.771 1.1721	.8 .03	*XC25890D	349.225 13.7490	120.650 4.7500	N/A N/A	XC25890D: SPHERICAL OD HOLES IN OD CENTER
NP027538	25.000 .9843	22.000 .8661	1.0 .04	NP002293	100.000 3.9370	26.990 1.0625	.8 .03	XC25877D: HOLES IN OD CENTER SPHERICAL OD
*NP030633	90.000 3.5433	62.755 2.4706	10.0 .39	NP016286	82.550 3.2500	23.020 .9063	3.3 .13	XC25880D: HOLES IN OD CENTER SPHERICAL OD
*NP033571	127.000 5.0000	46.830 1.8437	3.5 .14	NP024261	140.000 5.5118	28.575 1.1250	3.5 .14	NP009805: FRONTFACE CHAMFER
				NP030857	90.000 3.5433	22.855 .8999	1.5 .06	NP027538: FRONTFACE CHAMFER NP030633: EXTENDED SMALL RIB GROOVE IN ID FRONTFACE SHOULDER ON OD BACKFACE
								NP033571: EXTENDED LARGE RIB

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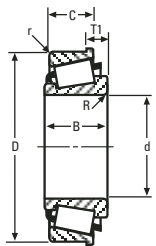
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**NP and XC PARTS**

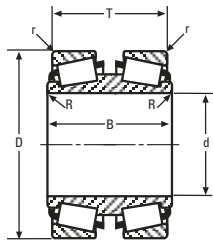
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				*NP035457	244.874 9.6407	170.000 6.6929	N/A N/A	NP035457: GROOVE IN OD CENTER
				*NP037463	90.000 3.5433	27.000 1.0630	1.5 .06	NP037463: KEYWAY IN OD BACKFACE
				NP052626	112.712 4.4375	19.050 .7500	3.3 .13	
								NP062901: FRONTFACE CHAMFER
				*NP063979	482.600 19.0000	107.950 4.2500	1.5 .06	NP063979: HOLES IN OD CENTER GROOVE IN OD CENTER
				NP064953	50.800 2.0000	26.909 1.0594	3.5 .14	
				NP069631	200.000 7.8740	27.783 1.0938	5.0 .20	
				NP076564	101.600 4.0000	57.531 2.2650	8.0 .31	
				NP079516	482.000 18.9764	160.000 6.2992	3.3 .13	
				NP083847	500.000 19.6850	156.210 6.1500	15.0 .59	
				*NP089873	355.600 14.0000	101.600 4.0000	1.5 .06	NP089873: HOLES IN OD CENTER GROOVE IN OD CENTER
				*NP097363	39.688 1.5625	40.386 1.5900	3.5 .14	NP097363: FRONTFACE CHAMFER
				*NP100371	120.000 4.7244	42.000 1.6535	.8 .03	NP100371: CHAMFER ON LEFTFACE OD CHAMFER ON RIGHTFACE OD
				NP101379	42.070 1.6563	40.386 1.5900	3.5 .14	
				NP102036	68.262 2.6875	21.996 .8660	5.0 .20	
				*NP106959	150.000 5.9055	24.000 .9449	2.0 .08	NP106959: CHAMFER ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				NP106970	80.000 3.1496	15.500 .6102	1.0 .04	
				NP108340	55.562 2.1875	36.512 1.4375	3.5 .14	
				NP108543	66.675 2.6250	38.354 1.5100	3.5 .14	
				*NP109544	27.488 1.0822	19.355 .7620	2.5 .10	NP109544: FRONTFACE CHAMFER
				*NP110611	510.000 20.0787	188.500 7.4213	1.5 .06	NP110611: ASYMMETRICAL BEARING
				NP111385	30.112 1.1855	20.638 .8125	.8 .03	NP113315: SHOULDER ON ID FRONTFACE FRONTFACE CHAMFER
				*NP113315	115.087 4.5310	53.180 2.0937	3.5 .14	
				*NP113645	34.925 1.3750	18.288 .7200	spcl. spcl.	NP113645: SPECIAL BACKFACE RADIUS
				*NP113979	34.988 1.3775	16.764 .6600	spcl. spcl.	NP113979: SPECIAL BACKFACE RADIUS
				NP116172	168.275 6.6250	41.275 1.6250	3.3 .13	
				NP120899	260.350 10.2500	41.275 1.6250	3.3 .13	
				NP122729	90.000 3.5433	23.000 .9055	2.5 .10	
				NP122954	212.725 8.3750	53.975 2.1250	3.3 .13	
				NP125626	50.000 1.9685	21.500 .8465	3.0 .12	
				NP129939	180.975 7.1250	25.400 1.0000	3.3 .13	



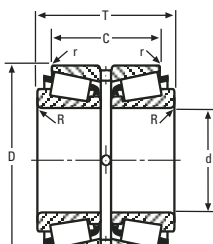
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
NP130281	88.900 3.5000	56.363 2.2190	3.5 .14					
NP130380	101.600 4.0000	57.531 2.2650	8.0 .31					
NP134527	114.300 4.5000	66.675 2.6250	7.0 .28					
				*NP137905	84.000 3.3071	53.000 2.0866	spcl. spcl.	NP137905: SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD
NP138515	27.000 1.0630	22.500 .8858	1.5 .06					
NP138708	63.500 2.5000	30.048 1.1830	2.0 .08					
				*NP142179	675.000 26.5748	63.500 2.5000	3.5 .14	NP142179: SLOTS IN BACKFACE
				NP147197	125.000 4.9213	22.000 .8661	1.5 .06	
				NP153717	42.862 1.6875	9.525 .3750	1.5 .06	
				NP156827	152.400 6.0000	30.162 1.1875	3.3 .13	
NP159006	23.812 .9375	21.463 .8450	1.5 .06					
				NP159648	127.000 5.0000	26.988 1.0625	3.3 .13	
*NP168674	479.425 18.8750	128.587 5.0625	6.4 .25					NP168674: SLOTS IN BACKFACE
NP174018	96.838 3.8125	28.971 1.1406	3.5 .14					
				NP177400	68.000 2.6772	14.500 .5709	1.5 .06	
NP177778	66.675 2.6250	38.354 1.5100	3.5 .14					
NP179928	76.200 3.0000	46.038 1.8125	3.5 .14					
				NP183151	140.000 5.7087	27.000 1.0630	2.5 .10	
NP183776	28.500 1.1220	14.730 .5800	1.0 .04					
				NP188393	127.000 5.0000	26.988 1.0625	3.3 .13	
*NP189575	68.262 2.6875	39.688 1.5625	3.5 .14					NP189575: FRONTFACE CHAMFER
				NP194962	50.292 1.9800	10.668 .4200	1.3 .05	
				NP199047	104.775 4.1250	28.575 1.1250	3.3 .13	
NP201810	63.500 2.5000	56.007 2.2050	4.3 .17					NP202138: FRONTFACE CHAMFER
*NP202138	152.400 6.0000	66.675 2.6250	7.0 .28					
NP202653	33.338 1.3125	28.575 1.1250	.8 .03					
*NP203305	65.000 2.5591	31.000 1.2205	2.0 .08					NP203305: FRONTFACE CHAMFER
NP208481	152.400 6.0000	46.830 1.8437	3.5 .14					
				*NP212181	80.000 3.1496	12.500 .4921	1.0 .04	NP212181: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
NP212764	85.000 3.3465	29.000 1.1417	3.0 .12					
				NP218183	149.225 5.8750	44.450 1.7500	3.3 .13	
*NP223588	34.925 1.3750	18.288 .7200	spcl. spcl.					NP223588: SPECIAL BACKFACE RADIUS
				NP224557	75.500 2.9724	14.732 .5800	.8 .03	

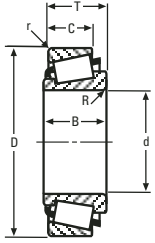
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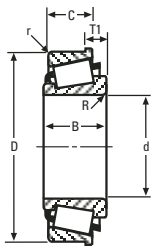
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NP and XC PARTS

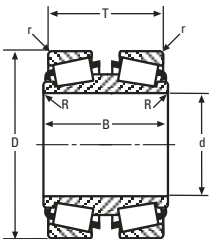
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				*NP224896	42.862 1.6875	9.525 .3750	1.5 .06	NP224896: BROKEN CORNER ON FRONTFACE OD
				NP227619	55.000 2.1654	13.000 .5118	1.0 .04	
								NP228079: FRONTFACE CHAMFER
	*NP228079	50.000 1.9685	41.000 1.6142					
	NP230343	355.600 14.0000	128.587 5.0625					
				NP230788	346.075 13.6250	50.800 2.0000	6.4 .25	
	NP233968	133.350 5.2500	46.038 1.8125					
				*NP235483	114.300 4.5000	34.925 1.3750	3.3 .13	NP235483: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				NP235899	72.000 2.8346	19.485 .7672	1.5 .06	
	*NP238787	333.375 13.1250	90.488 3.5625					NP238787: KEYWAY IN ID FRONTFACE
	*NP239427	165.087 6.4995	88.392 3.4800					NP239427: EXTENDED LARGE RIB EXTENDED SMALL RIB
				NP241715	200.000 7.8740	34.925 1.3750	3.3 .13	
	NP242161	100.000 3.9370	46.000 1.8110					
				*NP243097	655.000 25.7874	65.000 2.5591	3.3 .13	NP243097: HOLES IN BACKFACE
	NP245592	90.488 3.5625	48.260 1.9000					
	NP251532	80.000 3.1496	28.000 1.1024					
	NP252845	41.275 1.6250	19.812 .7800					
	*NP253527	101.600 4.0000	68.000 2.6772					NP253527: FRONTFACE CHAMFER SLOTS IN FRONTFACE
				NP256087	140.000 5.7087	24.000 .9449	1.5 .06	
				*NP259680	65.088 2.5625	15.875 .6250	1.5 .06	NP259680: KEYWAY IN OD BACKFACE
				NP261254	358.775 14.1250	53.975 2.1250	3.3 .13	
				NP264596	190.500 7.5000	46.038 1.8125	1.5 .06	
	NP264845	101.600 4.0000	57.531 2.2650					
				*NP266168	655.000 25.7874	65.000 2.5591	3.3 .13	NP266168: HOLES IN BACKFACE
				NP266492	110.000 4.3307	18.824 .7411	1.3 .05	
	*NP268853	50.000 1.9685	41.000 1.6142					NP268853: FRONTFACE CHAMFER
	*NP273081	101.600 4.0000	63.500 2.5000					NP273081: FRONTFACE CHAMFER SHOULDER ON ID FRONTFACE
	*NP275832	45.000 1.7717	26.500 1.0433					NP275832: FRONTFACE CHAMFER
	NP282175	25.000 .9843	16.000 .6299					
				NP282407	80.000 3.1496	17.826 .7018	1.3 .05	
				*NP285161	69.474 2.7352	22.225 .8750	1.5 .06	NP285161: SPECIAL RADIUS ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				NP290596	168.275 6.6250	41.275 1.6250	3.3 .13	
				NP292535	679.450 26.7500	101.600 4.0000	6.4 .25	
	NP294742	45.000 1.7717	20.000 .7874					



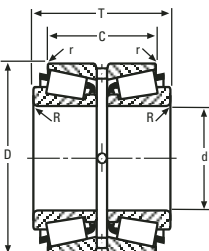
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

13

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>NP294963</b>	<b>59.974</b> 2.3612	<b>11.938</b> .4700	<b>1.3</b> .05	
<b>NP296458</b>	<b>203.200</b> 8.0000	<b>57.945</b> 2.2813	<b>9.7</b> .38					
<b>NP297576</b>	<b>41.275</b> 1.6250	<b>19.812</b> .7800	<b>3.5</b> .14					
<b>*NP298271</b>	<b>55.000</b> 2.1654	<b>23.000</b> .9055	<b>1.5</b> .06					NP298271: FRONTFACE CHAMFER
				<b>*NP304907</b>	<b>140.000</b> 5.5118	<b>28.000</b> 1.1024	<b>.4</b> .01	
				<b>NP307444</b>	<b>180.000</b> 7.0866	<b>39.000</b> 1.5354	<b>2.5</b> .10	
<b>NP307693</b>	<b>90.000</b> 3.5433	<b>34.000</b> 1.3386	<b>3.0</b> .12					
<b>*NP307772</b>	<b>55.000</b> 2.1654	<b>23.000</b> .9055	<b>1.5</b> .06					NP307772: FRONTFACE CHAMFER
<b>*NP307784</b>	<b>35.000</b> 1.3780	<b>18.000</b> .7087	<b>1.0</b> .04					NP307784: FRONTFACE CHAMFER
<b>NP309336</b>	<b>80.000</b> 3.1496	<b>34.000</b> 1.3386	<b>3.0</b> .12					
				<b>NP312529</b>	<b>82.000</b> 3.2283	<b>17.000</b> .6693	<b>2.0</b> .08	
<b>NP313363</b>	<b>76.200</b> 3.0000	<b>56.363</b> 2.2190	<b>6.4</b> .25					
<b>NP313972</b>	<b>70.000</b> 2.7559	<b>42.000</b> 1.6535	<b>3.0</b> .12					
				<b>NP315658</b>	<b>190.500</b> 7.5000	<b>46.038</b> 1.8125	<b>3.3</b> .13	
<b>*NP315939</b>	<b>100.000</b> 3.9370	<b>39.000</b> 1.5354	<b>6.0</b> .24					NP315939: FRONTFACE CHAMFER
				<b>NP316098</b>	<b>82.000</b> 3.2283	<b>17.000</b> .6693	<b>2.0</b> .08	
<b>*NP316592</b>	<b>35.000</b> 1.3780	<b>18.000</b> .7087	<b>3.3</b> .13					NP316592: FRONTFACE CHAMFER
				<b>NP317251</b>	<b>148.430</b> 5.8437	<b>21.433</b> .8438	<b>3.0</b> .12	
				<b>NP317439</b>	<b>79.375</b> 3.1250	<b>23.812</b> .9375	<b>3.3</b> .13	
				<b>*NP319428</b>	<b>253.957</b> 9.9983	<b>144.018</b> 5.6700	<b>1.0</b> .04	
<b>*NP323058</b>	<b>105.000</b> 4.1339	<b>43.000</b> 1.6929	<b>6.0</b> .24					NP319428: CHAMFER ON LEFTFACE OD ASYMMETRICAL BEARING CHAMFER ON RIGHTFACE OD GROOVE IN OD CENTER
				<b>NP329140</b>	<b>122.238</b> 4.8125	<b>29.718</b> 1.1700	<b>3.3</b> .13	
<b>*NP331550</b>	<b>50.800</b> 2.0000	<b>44.450</b> 1.7500	<b>3.5</b> .14					NP323058: FRONTFACE CHAMFER NP331550: FRONTFACE CHAMFER
<b>NP333133</b>	<b>45.000</b> 1.7717	<b>21.625</b> .8514	<b>1.0</b> .04					
				<b>*NP335917</b>	<b>249.872</b> 9.8375	<b>160.000</b> 6.2992	<b>spcl.</b> spcl.	
<b>*NP342389</b>	<b>406.400</b> 16.0000	<b>190.500</b> 7.5000	<b>3.3</b> .13					NP335917: GROOVE IN OD CENTER SPECIAL CHAMFER ON RIGHTFACE OD SPECIAL CHAMFER ON LEFTFACE OD
<b>*NP345107</b>	<b>145.674</b> 5.7352	<b>89.220</b> 3.5126	<b>1.5</b> .06					NP342389: EXTENDED SMALL RIB GROOVE IN ID
<b>*NP351444</b>	<b>45.987</b> 1.8105	<b>18.000</b> .7087	<b>2.3</b> .09					NP35107: NO SMALL RIB GROOVE IN OD CENTER INVERTED BEARING
				<b>NP353162</b>	<b>280.000</b> 11.0236	<b>48.000</b> 1.8898	<b>3.5</b> .14	
<b>*NP353549</b>	<b>35.000</b> 1.3780	<b>23.500</b> .9252	<b>2.0</b> .08					TAPERED BORE
				<b>*NP353933</b>	<b>68.262</b> 2.6875	<b>11.908</b> .4688	<b>1.5</b> .06	
				<b>NP354665</b>	<b>158.750</b> 6.2500	<b>15.875</b> .6250	<b>3.3</b> .13	
				<b>NP354913</b>	<b>1509.715</b> 59.4375	<b>182.865</b> 7.1994	<b>12.7</b> .50	
								NP351444: FRONTFACE CHAMFER NP353549: FRONTFACE CHAMFER NP353933: SPECIAL RADIUS ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION

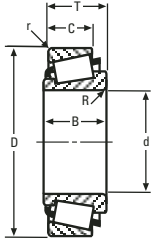
<sup>1</sup>These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
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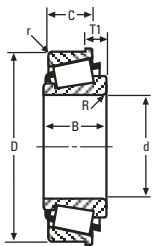
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NP and XC PARTS

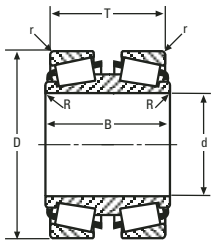
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>*NP355383</b>	<b>200.000</b> 7.8740	<b>34.925</b> 1.3750	<b>3.3</b> .13	NP355383: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
<b>NP358464</b>	<b>35.000</b> 1.3780	<b>18.000</b> .7087	<b>1.5</b> .06	<b>NP363867</b>	<b>122.238</b> 4.8125	<b>29.718</b> 1.1700	<b>3.3</b> .13	
<b>NP362252</b>	<b>49.212</b> 1.9375	<b>36.512</b> 1.4375	<b>3.5</b> .14	<b>*NP366621</b>	<b>220.000</b> 8.6614	<b>23.000</b> .9055	<b>3.0</b> .12	NP366621: KEYWAY IN OD BACKFACE
				<b>NP366890</b>	<b>196.850</b> 7.7500	<b>38.100</b> 1.5000	<b>3.3</b> .13	NP369824: FRONTFACE CHAMFER
<b>*NP369824</b>	<b>28.000</b> 1.1024	<b>17.460</b> .6875	<b>3.5</b> .14	<b>*NP380316</b>	<b>635.000</b> 25.0000	<b>112.649</b> 4.4350	<b>spcl.</b> spcl.	
<b>NP379418</b>	<b>146.050</b> 5.7500	<b>82.550</b> 3.2500	<b>6.4</b> .25	<b>NP385281</b>	<b>655.000</b> 25.7874	<b>76.000</b> 2.9921	<b>6.5</b> .26	NP380316: SPECIAL CHAMFER ON BACKFACE OD SPECIAL CHAMFER ON FRONTFACE OD SHOULDER ON OD FRONTFACE HOLES IN OD FRONTFACE
<b>NP379811</b>	<b>65.000</b> 2.5591	<b>23.000</b> .9055	<b>3.0</b> .12	<b>*NP387991</b>	<b>562.000</b> 22.1260	<b>70.000</b> 2.7559	<b>4.0</b> .16	NP387991: HOLES IN BACKFACE
				<b>NP393593</b>	<b>196.850</b> 7.7500	<b>38.100</b> 1.5000	<b>3.3</b> .13	NP390444: SPECIAL BACKFACE RADIUS
<b>*NP390444</b>	<b>31.750</b> 1.2500	<b>19.050</b> .7500	<b>spcl.</b> spcl.	<b>*NP394948</b>	<b>635.000</b> 25.0000	<b>112.039</b> 4.4110	<b>6.4</b> .25	
<b>NP390451</b>	<b>73.025</b> 2.8750	<b>54.229</b> 2.1350	<b>3.5</b> .14	<b>NP398617</b>	<b>68.262</b> 2.6875	<b>46.038</b> 1.8125	<b>3.5</b> .14	NP394948: HOLES IN OD FRONTFACE SPECIAL CHAMFER ON FRONTFACE OD CHAMFER ON BACKFACE OD SHOULDER ON OD FRONTFACE
<b>NP392358</b>	<b>317.500</b> 12.5000	<b>85.725</b> 3.3750	<b>3.5</b> .14	<b>NP400383</b>	<b>150.000</b> 5.9055	<b>24.000</b> .9449	<b>1.0</b> .04	NP398617: FRONTFACE CHAMFER
				<b>NP401046</b>	<b>136.525</b> 5.3750	<b>38.100</b> 1.5000	<b>1.5</b> .06	NP401015: FRONTFACE CHAMFER
<b>NP398617</b>	<b>68.262</b> 2.6875	<b>46.038</b> 1.8125	<b>3.5</b> .14	<b>NP402276</b>	<b>76.200</b> 3.0000	<b>23.020</b> .9063	<b>3.3</b> .13	
<b>*NP401015</b>	<b>45.100</b> 1.7756	<b>16.100</b> .6339	<b>1.0</b> .04	<b>*NP402973</b>	<b>72.111</b> 2.8390	<b>14.732</b> .5800	<b>.8</b> .03	NP402973: BROKEN CORNER ON FRONTFACE OD
				<b>NP403673</b>	<b>320.000</b> 12.5984	<b>30.000</b> 1.1811	<b>3.0</b> .12	NP407977: FRONTFACE CHAMFER
<b>*NP407977</b>	<b>30.000</b> 1.1811	<b>16.700</b> .6575	<b>.4</b> .01	<b>*NP408197</b>	<b>219.873</b> 8.6564	<b>155.000</b> 6.1024	<b>N/A</b> N/A	
				<b>NP409741</b>	<b>140.000</b> 5.7087	<b>42.000</b> 1.6535	<b>2.5</b> .10	NP408197: GROOVE IN OD CENTER HOLES IN OD CENTER
<b>*NP412314</b>	<b>35.000</b> 1.3780	<b>28.000</b> 1.1024	<b>1.5</b> .06	<b>NP417842</b>	<b>73.431</b> 2.8910	<b>14.732</b> .5800	<b>.8</b> .03	NP412314: FRONTFACE CHAMFER
<b>*NP416359</b>	<b>80.000</b> 3.1496	<b>29.000</b> 1.1417	<b>1.5</b> .06	<b>NP419272</b>	<b>50.810</b> 2.0004	<b>11.808</b> .4649	<b>1.5</b> .06	NP416359: FRONTFACE CHAMFER
				<b>NP420110</b>	<b>150.000</b> 5.9055	<b>30.000</b> 1.1811	<b>2.5</b> .10	
				<b>NP420308</b>	<b>77.788</b> 3.0625	<b>15.080</b> .5937	<b>.8</b> .03	



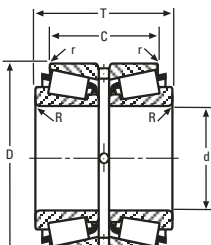
SINGLE ROW



SINGLE ROW WITH FLANGE



DOUBLE CONE



DOUBLE CUP

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks	
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C			
NP427955	50.800 2.0000	44.475 1.7510	.8 .03	NP421556	469.900 18.5000	71.438 2.8125	3.3 .13		
				NP423026	234.950 9.2500	49.212 1.9375	3.3 .13		
				NP428883	72.000 2.8346	22.000 .8661	1.5 .06		
				NP430381	82.931 3.2650	17.462 .6875	.8 .03		
NP430408	140.000 5.5118	33.000 1.2992	3.5 .14	NP433706	190.500 7.5000	46.038 1.8125	1.5 .06		
				NP435084	69.850 2.7500	56.363 2.2190	3.5 .14		
NP439027	101.600 4.0000	73.025 2.8750	6.4 .25	NP436465	76.992 3.0312	11.908 .4688	1.5 .06		
				NP437479	80.000 3.1496	15.500 .6102	1.0 .04		
*NP440642	90.000 3.5433	62.755 2.4706	10.0 .39	*NP442870	139.992 5.5115	28.575 1.1250	3.3 .13		NP440642: SPECIAL SMALL RIB EXTENDED SMALL RIB GROOVE IN ID FRONTFACE
NP444242	50.000 1.9685	28.000 1.1024	3.0 .12	NP443198	300.000 11.8110	51.000 2.0079	2.5 .10		NP442870: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				NP449291	45.242 1.7812	19.842 .7812	3.5 .14		
*NP455275	55.000 2.1654	30.000 1.1811	3.0 .12	NP453732	655.000 25.7874	76.000 2.9921	6.5 .26		NP455275: GROOVE IN ID FRONTFACE SHOULDER ON ID FRONTFACE FRONTFACE CHAMFER EXTENDED SMALL RIB
				*NP455350	34.988 1.3775	18.000 .7087	spcl. spcl.		
*NP457202	38.100 1.5000	29.771 1.1721	.8 .03	*NP455898	514.350 20.2500	52.000 2.0472	4.0 .16		NP455350: SPECIAL BACKFACE RADIUS FRONTFACE CHAMFER
NP461086	53.700 2.1142	31.000 1.2205	3.0 .12	NP460543	212.725 8.3750	53.975 2.1250	3.3 .13		NP455898: HOLES IN BACKFACE
NP463799	35.000 1.3780	23.000 .9055	1.5 .06						NP457202: FRONTFACE CHAMFER
NP464541	50.800 2.0000	44.450 1.7500	3.5 .14					NP468643: EXTENDED SMALL RIB	
*NP468643	365.600 14.3937	140.000 5.5118	2.5 .10	NP472053	104.775 4.1250	28.575 1.1250	3.3 .13	NP479278: FRONTFACE CHAMFER	
*NP479278	30.000 1.1811	17.000 .6693	1.0 .04	NP477660	47.000 1.8504	11.500 .4528	.6 .03		
				NP483022	49.212 1.9375	44.475 1.7510	3.5 .14		
*NP483277	68.000 2.6772	60.870 2.3964	.8 .03						NP483277: FRONTFACE CHAMFER EXTENDED SMALL RIB
NP484279	45.000 1.7717	19.840 .7812	1.8 .07					EXTENDED LARGE RIB	
NP492308	89.974 3.5423	40.000 1.5748	7.0 .28						

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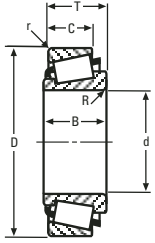
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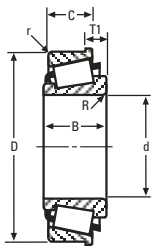


**NP and XC PARTS**

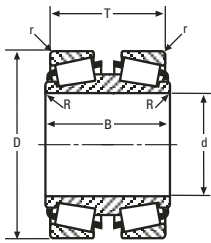
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
NP498093	107.950	66.675	8.0	*NP497563	62.000	14.000	1.0	NP497563: BROKEN CORNER ON FRONTFACE OD
	4.2500	2.6250	.31		2.4409	.5512	.04	
NP512245	234.950	49.212	6.4	NP498148	304.800	57.150	6.4	NP498148: GROOVE IN OD CENTER HOLES IN OD CENTER
	9.2500	1.9375	.25	*NP499336	219.873	155.000	N/A	
NP516315	50.000	28.000	3.0	*NP510716	52.000	18.000	1.0	NP510716: CHAMFER ON FRONTFACE OD
	1.9685	1.1024	.12		8.6564	6.1024	N/A	
*NP516946	40.000	33.000	2.0	NP514720	292.100	46.038	3.3	NP514720: FRONTFACE CHAMFER
NP518503	40.483	28.575	3.5			11.5000	1.8125	
*NP518547	78.000	17.775	2.0	NP520308	122.238	36.512	3.3	NP520308: FRONTFACE CHAMFER
*NP520058	116.665	38.936	3.5			4.8125	1.4375	
NP522505	35.000	28.830	3.5	NP528245	70.000	20.000	5.0	NP528245: REVERSE TAPERED BORE
*NP528245	70.000	20.000	5.0			2.7559	.7874	
NP531592	170.000	53.975	4.8	NP535811	41.275	19.812	3.5	NP535811: FRONTFACE CHAMFER
NP535811	41.275	19.812	3.5			1.6250	.7800	
*NP536440	214.051	236.000	N/A	NP540329	263.525	166.675	N/A	NP540329: CHAMFER ON LEFTFACE OD CHAMFER ON RIGHTFACE OD
	8.4272	9.2913	N/A			10.3750	6.5620	
*NP540329	263.525	166.675	spcl.	NP542200	114.300	34.925	3.3	NP542200: ASYMMETRICAL BEARING FLANGE ON OD CENTER HOLES IN CENTER FLANGE
NP542200	114.300	34.925	3.3			4.5000	1.3750	
*NP545492	90.000	62.755	10.0	NP549434	122.238	29.718	3.3	NP549434: SPECIAL CHAMFER ON LEFTFACE OD SPECIAL CHAMFER ON RIGHTFACE OD
NP555508	1139.825	461.960	4.8			4.8125	1.1700	
NP557248	95.000	32.000	2.0	NP560412	171.450	31.750	3.3	NP560412: SPECIAL SMALL RIB GROOVE IN ID FRONTFACE EXTENDED SMALL RIB
NP557248	95.000	32.000	2.0			6.7500	1.2500	
NP561514	40.988	18.000	.8	*NP562664	39.688	40.386	1.3	*NP562664: ASYMMETRICAL BEARING FLANGE ON OD CENTER HOLES IN CENTER FLANGE
NP561905	247.650	63.500	6.4			1.5625	1.5900	
*NP562664	39.688	40.386	1.3	NP573074	79.985	36.098	3.5	NP573074: FRONTFACE CHAMFER
NP573074	79.985	36.098	3.5		3.1490	1.4212	.14	
NP575780	53.700	36.678	3.5	NP576479	85.000	28.000	2.5	NP576479: FRONTFACE CHAMFER
NP575780	53.700	36.678	3.5		3.3465	1.1024	.10	
*NP576479	85.000	28.000	2.5	*NP586296	32.000	29.500	.8	*NP586296: FRONTFACE CHAMFER
*NP586296	32.000	29.500	.8		1.2598	1.1614	.03	
*NP587110	150.000	47.000	.8		5.9055	1.8504	.03	NP587110: CHAMFER ON LEFTFACE OD CHAMFER ON RIGHTFACE OD



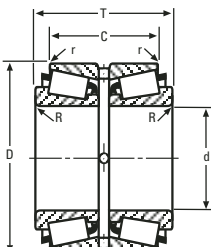
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				NP592766	75.000 2.9528	15.500 .6102	1.5 .06	
				*NP594918	59.530 2.3437	18.288 .7200	1.5 .06	NP594918: KEYWAY IN OD BACKFACE
				*NP595979	100.000 3.9370	37.000 1.4567	N/A N/A	NP595979: CHAMFER ON RIGHTFACE OD CHAMFER ON LEFTFACE OD
				NP597926	100.000 3.9370	36.510 1.4375	.8 .03	
NP599945	133.350 5.2500	63.500 2.5000	9.7 .38					
NP600001	85.000 3.3465	28.000 1.1024	2.5 .10					
NP600920	119.957 4.7227	57.500 2.2638	1.5 .06					
*NP601751	66.675 2.6250	21.996 .8660	3.5 .14					NP601751: FRONTFACE CHAMFER
				NP603591	73.025 2.8750	23.020 .9063	3.3 .13	
NP606435	117.475 4.6250	31.750 1.2500	8.0 .31					
				NP607075	110.000 4.3307	18.824 .7411	1.3 .05	
				NP611161	74.976 2.9518	14.000 .5512	1.5 .06	
				NP614635	120.000 4.7244	26.195 1.0313	3.3 .13	
				NP621715	447.675 17.6250	68.262 2.6875	3.3 .13	
*NP622187	30.000 1.1811	17.000 .6693	1.0 .04					NP622187: FRONTFACE CHAMFER
*NP623529	37.000 1.4567	38.000 1.4961	2.0 .08					NP623529: FRONTFACE CHAMFER EXTENDED LARGE RIB
NP624111	180.000 7.0866	64.000 2.5197	3.5 .14					
NP626468	50.000 1.9685	20.000 .7874	3.5 .14					
				NP628202	250.000 9.8425	37.000 1.4567	2.5 .10	
				*NP631090	234.950 9.2500	114.300 4.5000	1.5 .06	NP631090: GROOVE IN OD CENTER HOLES IN OD CENTER
NP636046	25.400 1.0000	23.114 .9100	.8 .03					
*NP638318	25.000 .9843	15.000 .5906	1.0 .04					NP638318: FRONTFACE CHAMFER
				*NP638413	108.000 4.2520	29.250 1.1516	.5 .02	NP638413: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
*NP639164	385.762 15.1875	158.750 6.2500	3.3 .13					NP639164: ASYMMETRICAL BEARING
				NP645406	64.976 2.5581	14.000 .5512	1.3 .05	
				*NP646130	90.000 3.5433	49.000 1.9291	1.5 .06	NP646130: ASYMMETRICAL - TWO SERIES BEARING GROOVE IN OD LEFTFACE
				NP646352	50.005 1.9687	13.970 .5500	1.3 .05	FLANGE ON OD RIGHTFACE CHAMFER ON RIGHTFACE OD
				NP646664	80.000 3.1496	25.000 .9843	1.5 .06	CHAMFER ON LEFTFACE OD
				NP659482	65.088 2.5625	13.970 .5500	1.3 .05	NP660452: CHAMFER ON RIGHTFACE OD CHAMFER ON LEFTFACE OD
				*NP660452	80.000 3.1496	30.000 1.1811	N/A N/A	
NP660566	133.350 5.2500	46.038 1.8125	3.5 .14					
*NP660946	550.000 21.6535	150.000 5.9055	3.5 .14					NP660946: GROOVE IN ID

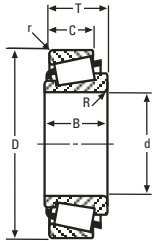
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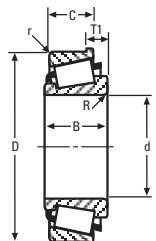
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**NP and XC PARTS**

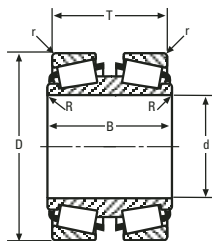
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>NP665055</b>	<b>190.500</b>	<b>46.038</b>	<b>3.3</b>	
					7.5000	1.8125	.13	
				<b>NP666842</b>	<b>68.000</b>	<b>15.400</b>	<b>1.5</b>	
					2.6772	.6063	.06	
				<b>NP669027</b>	<b>180.095</b>	<b>39.000</b>	<b>2.5</b>	
					7.0903	1.5354	.10	
				<b>*NP669820</b>	<b>190.500</b>	<b>46.038</b>	<b>3.3</b>	
					7.5000	1.8125	.13	NP669820: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				<b>NP673108</b>				NP673108: FRONTFACE CHAMFER
				<b>NP673396</b>	<b>72.000</b>	<b>19.000</b>	<b>1.5</b>	
					2.8346	.7480	.06	
				<b>NP673724</b>	<b>222.250</b>	<b>34.925</b>	<b>1.5</b>	
					8.7500	1.3750	.06	
				<b>NP673791</b>	<b>15.875</b>	<b>14.288</b>	<b>1.5</b>	
					.6250	.5625	.06	
				<b>NP674634</b>	<b>69.850</b>	<b>25.400</b>	<b>1.5</b>	
					2.7500	1.0000	.06	
				<b>NP681933</b>	<b>65.088</b>	<b>46.038</b>	<b>3.5</b>	
					2.5625	1.8125	.14	
				<b>NP686631</b>	<b>120.650</b>	<b>82.550</b>	<b>9.7</b>	
					4.7500	3.2500	.38	
				<b>*NP687057</b>	<b>253.906</b>	<b>144.018</b>	<b>1.0</b>	
					9.9963	5.6700	.04	NP687057: ASYMMETRICAL BEARING CHAMFER ON LEFTFACE OD CHAMFER ON RIGHTFACE OD KEYWAY IN OD CENTER
				<b>NP688738</b>				NP688738: FRONTFACE CHAMFER
				<b>NP688898</b>	<b>480.000</b>	<b>76.000</b>	<b>5.0</b>	
					18.8976	2.9921	.20	
				<b>*NP693218</b>	<b>56.560</b>	<b>12.000</b>	<b>1.0</b>	
					2.2268	.4724	.04	NP688796: GROOVE IN OD CENTER
				<b>*NP693852</b>	<b>59.131</b>	<b>12.000</b>	<b>1.0</b>	
					2.3280	.4724	.04	NP693218: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION CHAMFER ON FRONTFACE OD
				<b>NP694563</b>	<b>41.275</b>	<b>36.512</b>	<b>1.5</b>	
					1.6250	1.4375	.06	
				<b>NP697931</b>	<b>88.900</b>	<b>49.212</b>	<b>3.5</b>	
					3.5000	1.9375	.14	NP693852: CHAMFER ON FRONTFACE OD FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION
				<b>NP698197</b>	<b>95.250</b>	<b>22.225</b>	<b>.8</b>	
					3.7500	.8750	.03	
				<b>NP700413</b>	<b>460.000</b>	<b>76.000</b>	<b>5.0</b>	
					18.1102	2.9921	.20	
				<b>NP701655</b>	<b>60.325</b>	<b>44.450</b>	<b>3.5</b>	
					2.3750	1.7500	.14	
				<b>*NP702249</b>	<b>29.000</b>	<b>17.590</b>	<b>2.3</b>	
					1.1417	.6925	.09	NP702249: EXTENDED SMALL RIB
				<b>NP703773</b>	<b>41.275</b>	<b>36.512</b>	<b>1.5</b>	
					1.6250	1.4375	.06	
				<b>NP707669</b>	<b>68.262</b>	<b>46.038</b>	<b>3.5</b>	
					2.6875	1.8125	.14	
				<b>NP708326</b>	<b>44.450</b>	<b>36.512</b>	<b>3.5</b>	
					1.7500	1.4375	.14	
				<b>NP712475</b>	<b>85.026</b>	<b>46.672</b>	<b>3.5</b>	
					3.3475	1.8375	.14	



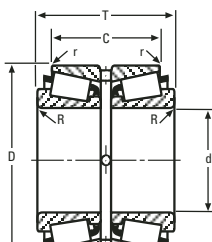
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

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NP and XC PARTS

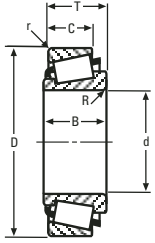
CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*NP712550	40.000 1.5748	23.000 .9055	1.5 .06					NP712550: FRONTFACE CHAMFER
*NP712745	119.913 4.7210	38.936 1.5329	3.5 .14					NP712745: TAPERED BORE
*NP714822	40.000 1.5748	33.000 1.2992	4.0 .16					NP714822: FRONTFACE CHAMFER
*NP715284	50.000 1.9685	20.000 .7874	2.3 .09					NP715284: FRONTFACE CHAMFER
				NP715448	254.000 10.0000	33.338 1.3125	3.3 .13	
				NP717379	105.000 4.1339	18.500 .7283	1.0 .04	
				NP717996	130.000 5.1181	24.000 .9449	2.5 .10	
				NP719416	546.100 21.5000	82.550 3.2500	6.4 .25	
				NP721559	141.000 5.5512	22.000 .8661	2.0 .08	
*NP726878	45.242 1.7812	27.419 1.0795	3.5 .14					NP726878: EXTENDED SMALL RIB
*NP727766	57.165 2.2506	26.150 1.0295	.8 .03					NP727766: FRONTFACE CHAMFER
*NP731186	254.000 10.0000	71.438 2.8125	3.5 .14					NP731186: KEYWAY IN ID FRONTFACE
				NP733999	59.131 2.3280	11.938 .4700	1.3 .05	
				NP735186	158.750 6.2500	15.875 .6250	3.3 .13	
				*NP736722	130.000 5.1181	45.000 1.7717	N/A N/A	NP736722: CHAMFER ON RIGHTFACE OD CHAMFER ON LEFTFACE OD
*NP737697	50.000 1.9685	20.000 .7874	3.0 .12					NP737697: FRONTFACE CHAMFER
NP738483	133.350 5.2500	63.500 2.5000	9.7 .38					
				NP738729	69.012 2.7170	15.083 .5938	2.3 .09	
NP739395	101.600 4.0000	66.675 2.6250	7.0 .28					
				NP739603	447.675 17.6250	68.262 2.6875	3.3 .13	
				NP742024	190.500 7.5000	46.038 1.8125	1.5 .06	
				NP742592	67.975 2.6762	13.500 .5315	1.5 .06	
NP747110	60.325 2.3750	43.764 1.7230	3.5 .14					
*NP748283	49.212 1.9375	44.450 1.7500	3.5 .14					NP748283: FRONTFACE CHAMFER
				*NP748655	64.200 2.5276	13.970 .5500	1.3 .05	NP748655: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION CHAMFER ON FRONTFACE OD
				NP750751	80.000 3.1496	22.665 .8923	1.5 .06	
				*NP750997	61.986 2.4404	14.732 .5800	1.5 .06	NP750997: FLANGE ON OD FRONTFACE, BEARING WIDTH IS T1 DIMENSION CHAMFER ON FRONTFACE OD
*NP751516	38.100 1.5000	29.771 1.1721	3.5 .14					NP751516: FRONTFACE CHAMFER
				NP758445	254.000 10.0000	47.625 1.8750	3.3 .13	
				NP761714	73.431 2.8910	14.732 .5800	.8 .03	
				NP762896	80.000 3.1496	15.500 .6102	1.0 .04	
				NP763848	80.040 3.1512	15.500 .6102	1.0 .04	
*NP765903	30.000 1.1811	17.000 .6693	1.5 .06					NP765903: FRONTFACE CHAMFER

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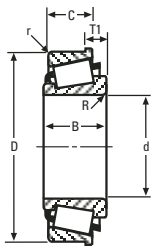
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**NP and XC PARTS**

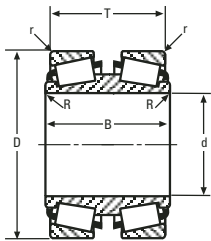
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*NP766253	90.000 3.5433	62.755 2.4706	10.0 .39					NP766253: SPECIAL SMALL RIB EXTENDED SMALL RIB
NP769363	63.500 2.5000	38.354 1.5100	3.5 .14					SHOULDER ON ID BACKFACE GROOVE IN ID FRONTFACE
*NP774232	446.204 17.5671	233.045 9.1750	3.3 .13	NP777052	168.275 6.6250	41.275 1.6250	3.3 .13	NP774232: NO SMALL RIB TAPERED BORE NO LARGE RIB
NP780054	129.967 5.1168	68.715 2.7053	3.3 .13					
NP781752	61.000 2.4016	35.000 1.3780	3.0 .12					
*NP787790	40.000 1.5748	32.000 1.2598	1.5 .06	*NP787502	202.000 7.9528	101.000 3.9764	1.0 .04	NP787502: HOLES IN OD CENTER SHOULDER ON OD LEFTFACE ASYMMETRICAL BEARING CHAMFER ON RIGHTFACE OD
*NP797917	50.800 2.0000	36.068 1.4200	.8 .03	NP794104	136.525 5.3750	38.100 1.5000	1.5 .06	NP794104: GROOVE IN OD CENTER FLANGE ON OD LEFTFACE CHAMFER ON LEFTFACE OD
NP799347	85.026 3.3475	46.672 1.8375	3.5 .14					NP787790: FRONTFACE CHAMFER
*NP819171	45.987 1.8105	18.000 .7087	2.3 .09	NP801481	59.530 2.3437	18.288 .7200	1.5 .06	NP797917: FRONTFACE CHAMFER
NP821977	177.800 7.0000	53.975 2.1250	8.0 .31	*NP807769	127.000 5.0000	29.000 1.1417	2.5 .10	NP807769: CHAMFER ON FRONTFACE OD
NP822100	26.500 1.0433	14.732 .5800	3.5 .14	*NP810997	65.000 2.5591	14.525 .5718	.5 .02	NP810997: SHOULDER ON OD BACKFACE CHAMFER ON BACKFACE OD CHAMFER ON FRONTFACE OD
*NP823007	107.950 4.2500	21.438 .8440	3.5 .14	NP819244	150.089 5.9090	36.512 1.4375	1.5 .06	NP819244: FRONTFACE CHAMFER
NP823021	317.500 12.5000	85.725 3.3750	3.5 .14					NP823007: FRONTFACE CHAMFER
*NP824422	34.988 1.3775	16.764 .6600	spcl. spcl.					NP824422: SPECIAL BACKFACE RADIUS
NP825236	200.000 7.8740	62.000 2.4409	3.5 .14	NP825371	562.000 22.1260	77.788 3.0625	6.4 .25	
NP830648	390.000 15.3543	180.000 7.0866	2.0 .08	NP831700	103.188 4.0625	36.512 1.4375	3.3 .13	
*NP833746	115.087 4.5310	62.819 2.4732	3.5 .14					NP833746: FRONTFACE CHAMFER EXTENDED LARGE RIB GROOVE IN OD BACKFACE
NP835067	47.625 1.8750	24.448 .9625	3.5 .14	NP836838	130.000 5.1181	26.350 1.0374	2.5 .10	
*NP837197	45.987 1.8105	18.000 .7087	2.3 .09					NP837197: FRONTFACE CHAMFER
*NP837704	247.650 9.7500	63.500 2.5000	6.4 .25					NP837704: KEYWAY IN ID FRONTFACE
*NP838887	50.000 1.9685	20.000 .7874	2.3 .09					NP838887: FRONTFACE CHAMFER
NP839980	133.350 5.2500	63.500 2.5000	9.7 .38	*NP840431	55.000 2.1654	12.550 .4941	1.0 .04	NP840431: CHAMFER ON FRONTFACE OD



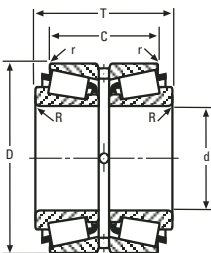
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
				<b>NP841384</b>	<b>111.125</b> 4.3750	<b>20.638</b> .8125	<b>3.3</b> .13	
<b>NP844601</b>	<b>71.438</b> 2.8125	<b>32.545</b> 1.2813	<b>3.5</b> .14					
<b>*NP846650</b>	<b>75.000</b> 2.9528	<b>28.000</b> 1.1024	<b>.6</b> .03					NP846650: FRONTFACE CHAMFER
				<b>NP847247</b>	<b>112.712</b> 4.4375	<b>19.050</b> .7500	<b>3.3</b> .13	
<b>*NP849042</b>	<b>240.000</b> 9.4488	<b>39.000</b> 1.5354	<b>3.0</b> .12					NP849042: FRONTFACE CHAMFER
<b>NP850232</b>	<b>45.915</b> 1.8077	<b>18.000</b> .7087	<b>2.3</b> .09					
				<b>NP850439</b>	<b>62.000</b> 2.4409	<b>14.288</b> .5625	<b>1.3</b> .05	
<b>NP851052</b>	<b>82.550</b> 3.2500	<b>46.672</b> 1.8375	<b>3.5</b> .14					
<b>NP851626</b>	<b>25.400</b> 1.0000	<b>14.732</b> .5800	<b>1.3</b> .05					
				<b>NP851934</b>	<b>106.000</b> 4.1732	<b>13.170</b> .5185	<b>1.0</b> .04	
				<b>NP852290</b>	<b>65.088</b> 2.5625	<b>13.970</b> .5500	<b>1.3</b> .05	
<b>NP853879</b>	<b>77.788</b> 3.0625	<b>48.702</b> 1.9174	<b>3.5</b> .14					
<b>NP853900</b>	<b>101.600</b> 4.0000	<b>34.925</b> 1.3750	<b>.8</b> .03					
				<b>NP854000</b>	<b>149.898</b> 5.9015	<b>26.988</b> 1.0625	<b>3.3</b> .13	
				<b>NP854835</b>	<b>655.000</b> 25.7874	<b>70.000</b> 2.7559	<b>3.3</b> .13	
				<b>NP859261</b>	<b>136.525</b> 5.3750	<b>36.512</b> 1.4375	<b>3.3</b> .13	
<b>NP859982</b>	<b>180.000</b> 7.0866	<b>45.000</b> 1.7717	<b>3.0</b> .12					
<b>NP861151</b>	<b>38.500</b> 1.5157	<b>18.000</b> .7087	<b>2.5</b> .10					
				<b>NP862174</b>	<b>85.700</b> 3.3740	<b>15.875</b> .6250	<b>1.5</b> .06	
				<b>NP863447</b>	<b>74.976</b> 2.9518	<b>14.000</b> .5512	<b>1.5</b> .06	
				<b>NP863766</b>	<b>355.600</b> 14.0000	<b>44.450</b> 1.7500	<b>3.3</b> .13	
<b>*NP864263</b>	<b>45.000</b> 1.7717	<b>21.625</b> .8514	spcl. spcl.					NP864263: FRONTFACE CHAMFER BACKFACE CHAMFER
<b>NP864314</b>	<b>50.800</b> 2.0000	<b>36.512</b> 1.4375	<b>3.5</b> .14					
				<b>NP865283</b>	<b>104.775</b> 4.1250	<b>28.575</b> 1.1250	<b>3.3</b> .13	
<b>NP867201</b>	<b>21.986</b> .8656	<b>18.288</b> .7200	<b>1.3</b> .05					
<b>NP869339</b>	<b>70.000</b> 2.7559	<b>29.000</b> 1.1417	<b>3.0</b> .12					
<b>NP871543</b>	<b>68.262</b> 2.6875	<b>21.996</b> .8660	<b>2.3</b> .09					
				<b>NP876594</b>	<b>150.089</b> 5.9090	<b>36.512</b> 1.4375	<b>1.5</b> .06	
<b>*NP877824</b>	<b>157.150</b> 6.1870	<b>84.531</b> 3.3280	<b>1.0</b> .04					NP877824: EXTENDED LARGE RIB SHOULDER ON ID BACKFACE SPECIAL BORE
<b>NP880810</b>	<b>22.225</b> .8750	<b>20.221</b> .7961	<b>1.5</b> .06					
<b>NP881228</b>	<b>26.988</b> 1.0625	<b>14.732</b> .5800	<b>3.5</b> .14					
<b>*NP881387</b>	<b>65.000</b> 2.5591	<b>33.000</b> 1.2992	<b>1.0</b> .04					NP881387: FRONTFACE CHAMFER
<b>NP882248</b>	<b>114.300</b> 4.5000	<b>66.675</b> 2.6250	<b>7.0</b> .28					

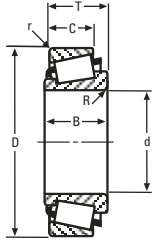
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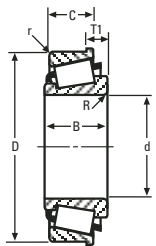
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**NP and XC PARTS**

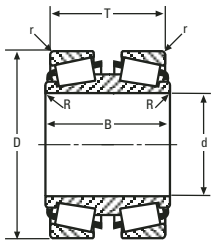
CONE			Max Shaft Fillet Radii R'	CUP			Max Hs'ng Fillet Radii r'	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
NP883948	114.300 4.5000	66.675 2.6250	7.0 .28	NP885315	62.000 2.4409	14.000 .5512	1.5 .06	NP890996: GROOVE IN OD CENTER HOLES IN OD CENTER
				*NP890996	229.873 9.0501	150.000 5.9055	N/A N/A	
				NP891538	110.000 4.3307	15.500 .6102	2.0 .08	
NP897661	53.700 2.1142	29.145 1.1475	3.0 .12	NP901205	260.350 10.2500	41.275 1.6250	3.3 .13	NP907899: ASYMMETRICAL BEARING GROOVE IN ID
				NP901641	130.000 5.1181	35.000 1.3780	2.5 .10	
				NP905784	80.000 3.1496	18.740 .7377	.8 .03	
NP904081	42.070 1.6563	40.386 1.5900	3.5 .14	NP908060	150.000 5.9055	24.000 .9449	1.5 .06	NP909358: FRONTFACE CHAMFER
NP904811	44.450 1.7500	26.909 1.0594	3.5 .14	NP909855	146.975 5.7864	32.500 1.2795	3.5 .14	
				NP912541	514.350 20.2500	63.500 2.5000	3.3 .13	
*NP907899	510.000 20.0787	188.500 7.4213	1.5 .06	NP918319	50.292 1.9800	10.668 .4200	1.3 .05	NP918734
*NP909358	40.000 1.5748	22.403 .8820	3.5 .14	NP918734	212.725 8.3750	53.975 2.1250	3.3 .13	
NP910415	44.450 1.7500	25.400 1.0000	3.5 .14					
NP921376	77.788 3.0625	48.702 1.9174	3.5 .14	NP946363	55.000 2.1654	13.000 .5118	1.5 .06	NP938901: FRONTFACE CHAMFER SPECIAL BACKFACE RADIUS
NP921847	100.000 3.9370	46.000 1.8110	3.0 .12	*NP946473	62.000 2.4409	14.000 .5512	1.0 .04	
NP928058	100.000 3.9370	32.000 1.2598	2.0 .08					
NP929079	43.000 1.6929	30.000 1.1811	2.0 .08					NP946473: BROKEN CORNER ON FRONTFACE OD
NP936041	231.775 9.1250	65.088 2.5625	6.4 .25					
*NP938901	45.987 1.8105	18.000 .7087	spcl. spcl.					
NP946192	44.450 1.7500	23.012 .9060	.8 .03					NP947791: FRONTFACE CHAMFER
NP946311	34.925 1.3750	24.608 .9688	1.5 .06					
*NP947791	50.000 1.9685	32.000 1.2598	1.5 .06					
NP950329	482.000 18.9764	160.000 6.2992	3.3 .13					NP956328: SPECIAL BACKFACE RADIUS
NP951065	31.750 1.2500	27.783 1.0938	1.3 .05	NP953787	62.000 2.4409	12.750 .5020	1.0 .04	
*NP956328	40.988 1.6137	18.000 .7087	spcl. spcl.					



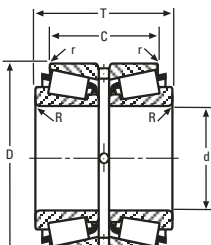
**SINGLE ROW**



**SINGLE ROW WITH FLANGE**



**DOUBLE CONE**



**DOUBLE CUP**

**13**

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NP and XC PARTS

CONE			Max Shaft Fillet Radii R <sup>1</sup>	CUP			Max Hs'ng Fillet Radii r <sup>1</sup>	Remarks
Number	BORE d	WIDTH B		Number	OUTSIDE DIA D	WIDTH C		
*NP959165	34.925 1.3750	18.288 .7200	spcl. spcl.	NP957262	127.000 5.0000	34.925 1.3750	3.3 .13	NP958022: HOLES IN OD CENTER GROOVE IN OD CENTER  NP959165: SPECIAL BACKFACE RADIUS  NP959605: SHOULDER ON OD FRONTFACE HOLES IN OD FRONTFACE CHAMFER ON FRONTFACE OD SPECIAL CHAMFER ON BACKFACE OD  NP96708: HOLES IN OD FRONTFACE CHAMFER ON BACKFACE OD  NP964528: HOLES IN OD CENTER GROOVE IN OD CENTER  NP972022: FRONTFACE CHAMFER  NP975152: SHOULDER ON OD BACKFACE CHAMFER ON BACKFACE OD CHAMFER ON FRONTFACE OD  NP975615: EXTENDED LARGE RIB FRONTFACE CHAMFER EXTENDED SMALL RIB  NP980605: FRONTFACE CHAMFER  NP980976: GROOVE IN ID FRONTFACE SHOULDER ON ID FRONTFACE FRONTFACE CHAMFER  NP988748: FRONTFACE CHAMFER  NP995460: GROOVE IN ID FRONTFACE EXTENDED SMALL RIB EXTENDED LARGE RIB
				*NP958022	187.325 7.3750	93.660 3.6874	1.5 .06	
				*NP959605	635.000 25.0000	112.649 4.4350	spcl. spcl.	
				NP959807	57.175 2.2510	15.875 .6250	1.5 .06	
				*NP960708	635.000 25.0000	115.570 4.5500	6.4 .25	
				NP961542	161.925 6.3750	38.100 1.5000	3.3 .13	
				NP962387	80.000 3.1496	15.500 .6102	1.0 .04	
				NP963662	50.800 2.0000	22.225 .8750	3.5 .14	
				NP965020	170.000 6.6929	46.038 1.8125	4.8 .19	
				*NP972022	80.000 3.1496	46.000 1.8110	6.0 .24	
NP972299	50.800 2.0000	28.575 1.1250	3.5 .14					
NP972505	381.000 15.0000	104.775 4.1250	6.4 .25					
*NP975152	68.000 2.6772	60.870 2.3964	.8 .03	NP975152	65.000 2.5591	14.525 .5718	.5 .02	
				NP975201	150.089 5.9090	36.512 1.4375	3.3 .13	
*NP975615	68.000 2.6772	60.870 2.3964	.8 .03					
*NP980605	30.000 1.1811	16.700 .6575	1.0 .04					
*NP980976	40.000 1.5748	27.500 1.0827	4.3 .17					
NP981262	120.650 4.7500	47.625 1.8750	3.3 .13					
NP981435	76.200 3.0000	57.531 2.2650	3.5 .14	NP981435	266.700 10.5000	38.100 1.5000	3.3 .13	
				NP984494	65.088 2.5625	13.970 .5500	1.3 .05	
NP987549	76.200 3.0000	57.531 2.2650	3.5 .14					
*NP988748	57.165 2.2506	26.150 1.0295	.8 .03					
NP993044	88.900 3.5000	57.531 2.2650	8.0 .31					
*NP995460	82.000 3.2283	55.255 2.1753	10.0 .39					
NP999210	25.400 1.0000	23.114 .9100	.8 .03					

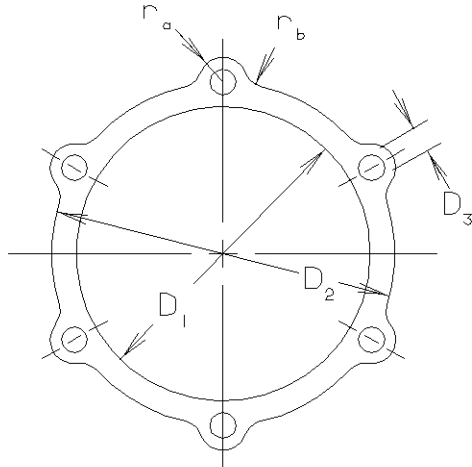
\*\*These Maximum Fillet Radii will be cleared by the Cone or Cup Radii.  
\* See Remarks Column.

NP Parts are made for specific applications.  
XC Parts are in limited production.

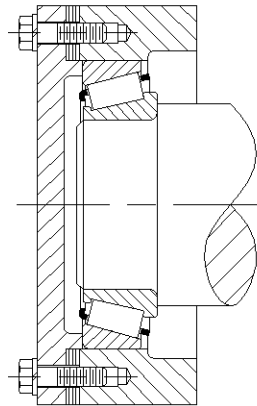


# AUXILIARY PARTS – CUP SHIMS

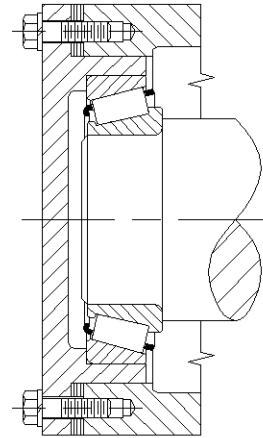
## Standard Metal Shims for Cup Adjusted Bearings



Shims are **0.13 mm** (0.005 in.), **0.18 mm** (0.007 in) and **0.51 mm** (0.020 in.) thick



without carrier



with carrier

Carrier section should be equal to average cup wall section.

Suggested shim sets consist of three **0.13 mm** (0.005 in.), three **0.18 mm** (0.007 in), and one **0.51 mm** (0.020 in.) thick shims. When ordering, specify the exact quantity for each part number. Shims shown in this table are made from aluminum.

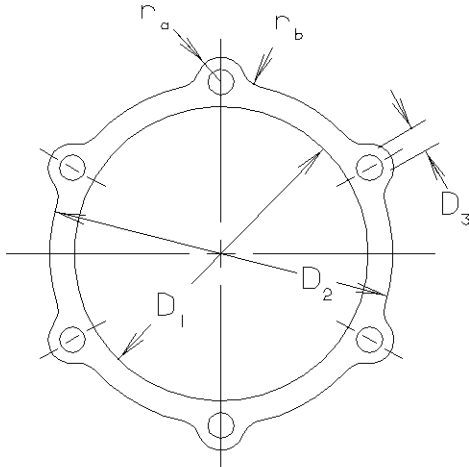
**Cup Shims**  
part number identifies the following:  
thickness (inches)  
00 00  
example  
K2 06 05 Covers number 6 shim **0.13** (0.005 in.) thick (blue)  
K2 06 07 Covers number 6 shim **0.18** (0.007 in.) thick (silver)  
K2 06 20 Covers number 6 shim **0.51** (0.020 in.) thick (yellow)

shim part numbers			cap screws		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	r <sub>a</sub>	r <sub>b</sub>	shim part numbers			cap screws		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	r <sub>a</sub>	r <sub>b</sub>
0.13 0.005 thick	0.18 0.007 thick	0.51 0.020 thick	no.	size						0.13 0.005 thick	0.18 0.007 thick	0.51 0.020 thick	no.	size					
K20605	K20607	K20620	4	6.4 0.25	35.8 1.41	47.8 1.88	7.1 0.28	6.4 0.25	3.0 0.12	K21605	K21607	K21620	4	12.7 0.50	102.4 4.03	127.0 5.00	13.5 0.53	12.7 0.50	6.4 0.25
K20705	K20707	K20720	4	6.4 0.25	45.2 1.78	57.2 2.25	7.1 0.28	6.4 0.25	3.0 0.12	K21705	K21707	K21720	4	12.7 0.50	108.7 4.28	133.4 5.25	13.5 0.53	12.7 0.50	6.4 0.25
K20805	K20807	K20820	4	9.7 0.38	51.6 2.03	69.8 2.75	10.4 0.41	9.7 0.38	4.8 0.19	K21805	K21807	K21820	4	12.7 0.50	115.1 4.53	139.7 5.50	13.5 0.53	12.7 0.50	6.4 0.25
K20905	K20907	K20920	4	9.7 0.38	59.4 2.34	76.2 3.00	10.4 0.41	9.7 0.38	4.8 0.19	K21905	K21907	K21920	6	12.7 0.50	121.4 4.78	146.0 5.75	13.5 0.53	12.7 0.50	6.4 0.25
K21005	K21007	K20920	4	9.7 0.38	65.8 2.34	82.6 3.25	10.4 0.41	9.7 0.38	4.8 0.19	K22005	K22007	K22020	6	12.7 0.50	127.8 5.03	152.4 6.00	13.5 0.53	12.7 0.50	6.4 0.25
K21105	K21107	K21120	4	9.7 0.38	70.6 2.78	88.9 3.50	10.4 0.41	9.7 0.38	4.8 0.19	K22205	K22207	K22220	6	12.7 0.50	140.5 5.53	165.1 6.50	13.5 0.53	12.7 0.50	6.4 0.25
K21405	K21407	K21420	4	9.7 0.38	89.7 3.53	108.0 4.25	10.4 0.41	9.7 0.38	4.8 0.19	K22405	K22407	K22420	6	12.7 0.50	153.2 6.03	177.8 7.00	13.5 0.53	12.7 0.50	6.4 0.25
K21505	K21507	K21520	4	9.7 0.38	96.0 3.78	114.3 4.50	10.4 0.41	9.7 0.38	4.8 0.19										

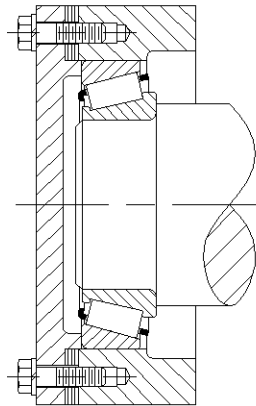
These parts have been designed and developed for use with Timken bearings only.

## AUXILIARY PARTS – CUP SHIMS

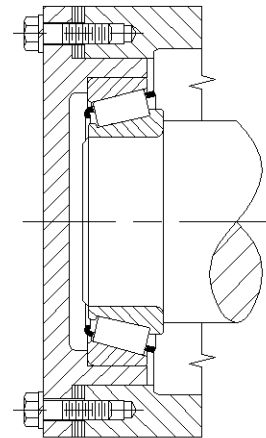
### Standard Metal Shims for Cup Adjusted Bearings



Shims are **0.13 mm** (0.005 in.), **0.18 mm** (0.007 in) and **0.51 mm** (0.020 in.) thick



without carrier



with carrier

Carrier section should be equal to average cup wall section.

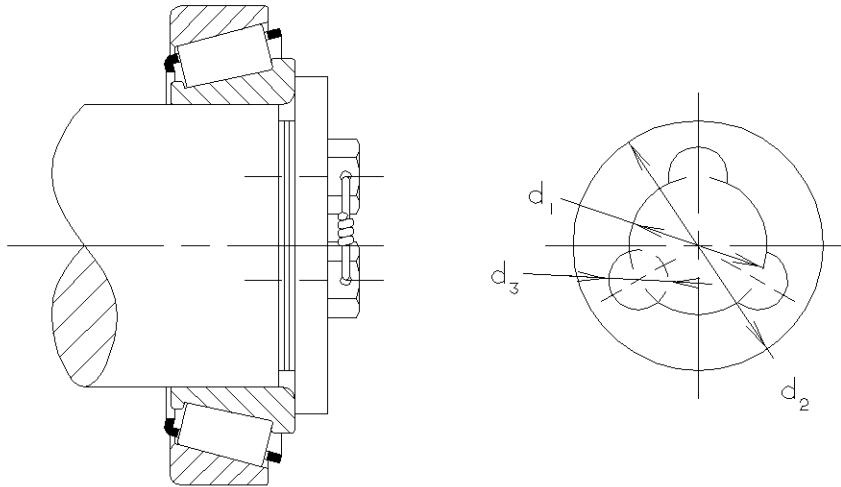
Suggested shim sets consist of three **0.13 mm** (0.005 in.), three **0.18 mm** (0.007 in), and one **0.51 mm** (0.020 in.) thick shims. When ordering, specify the exact quantity for each part number. Shims shown in this table are made from aluminum.

**Cup Shims**  
part number identifies the following:  
shim size thickness (inches)  
K2 00 00  
example  
K2 06 05 Covers number 6 shim **0.13** (0.005 in.) thick (blue)  
K2 06 07 Covers number 6 shim **0.18** (0.007 in.) thick (silver)  
K2 06 20 Covers number 6 shim **0.51** (0.020 in.) thick (yellow)

shim part numbers			cap screws		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	r <sub>a</sub>	r <sub>b</sub>	shim part numbers			cap screws		D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	r <sub>a</sub>	r <sub>b</sub>
0.13 0.005 thick	0.18 0.007 thick	0.51 0.020 thick	no.	size						0.13 0.005 thick	0.18 0.007 thick	0.51 0.020 thick	no.	size					
K22505	K22507	K22520	6	15.7 0.62	159.5 6.28	190.5 7.50	16.8 0.66	15.7 0.62	7.9 0.31	K23805	K23807	K23820	6	15.7 0.62	242.1 9.53	273.0 10.75	16.8 0.66	15.7 0.62	7.9 0.31
K22605	K22607	K22620	6	15.7 0.62	165.9 6.53	196.8 7.75	16.8 0.66	15.7 0.62	7.9 0.31	K24005	K24007	K24020	6	19.0 0.75	254.8 10.03	292.1 11.50	19.8 0.78	19.0 0.75	9.7 0.38
K22705	K22707	K22720	6	15.7 0.62	172.2 6.78	203.2 8.00	16.8 0.66	15.7 0.62	7.9 0.31	K24105	K24107	K24120	8	19.0 0.75	267.5 10.53	304.8 12.00	19.8 0.78	19.0 0.75	9.7 0.38
K22905	K22907	K22920	6	15.7 0.62	184.9 7.28	215.9 8.50	16.8 0.66	15.7 0.62	7.9 0.31	K24205	K24207	K24220	8	19.0 0.75	296.2 11.66	333.2 13.12	19.8 0.78	19.0 0.75	9.7 0.38
K23005	K23007	K23020	6	15.7 0.62	191.3 7.53	222.2 8.75	16.8 0.66	15.7 0.62	7.9 0.31	K24405	K24407	K24420	8	19.0 0.75	318.3 12.53	355.6 14.00	19.8 0.78	19.0 0.75	9.7 0.38
K23205	K23207	K23220	6	15.7 0.62	204.0 8.03	235.0 9.25	16.8 0.66	15.7 0.62	7.9 0.31	K24605	K24607	K24620	8	22.4 0.88	343.7 13.53	387.4 15.25	23.9 0.94	22.4 0.88	11.2 0.44
K23405	K23407	K23420	6	15.7 0.62	216.7 8.53	247.6 9.75	16.8 0.66	15.7 0.62	7.9 0.31	K24805	K24807	K24820	8	22.4 0.88	69.1 14.53	412.8 16.25	23.9 0.94	22.4 0.88	11.2 0.44
K23605	K23607	K23620	6	15.7 0.62	229.4 9.03	260.4 10.25	16.8 0.66	15.7 0.62	7.9 0.31	K25005	K25007	K25020	8	25.4 1.00	394.5 15.53	444.5 17.50	26.9 1.06	25.4 1.00	12.7 0.50
										K25005	K25007	K25020	8	25.4 1.00	419.9 16.53	469.9 18.50	26.9 1.06	25.4 1.00	12.7 0.50

These parts have been designed and developed for use with Timken bearings only.

**AUXILIARY PARTS – CONE SHIMS**  
**Standard Metal Shims for Cone Adjusted Bearings**



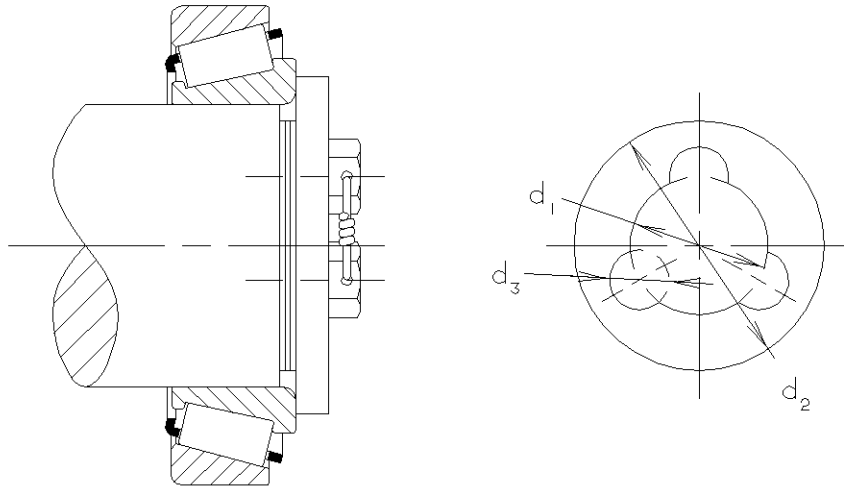
Suggested shim sets consist of three **0.13 mm** (0.005 in.) (blue), three **0.18 mm** (0.007 in.) (silver), and one **0.51 mm** (0.020 in.) (yellow) thick shims. When ordering, specify the exact quantity for each part number. Shims shown in this table are made from aluminum.

shims		shaft size	cap screws		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	shims		shaft size	cap screws		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>
part number	thickness		no.	size				part number	thickness		no.	size			
T50605	0.13 0.005	63.5 2.50	3	12.7 0.50	35.1 1.38	60.5 2.38	14.2 0.56	T45882	0.13 0.005	108.0 4.25	3	15.7 0.62	76.2 3.00	103.1 4.06	17.5 0.69
T50606	0.18 0.007	to						T50633	0.18 0.007	to					
T50607	0.51 0.020	73.2 2.88						T45884	0.51 0.020	117.3 4.62					
T50608	0.13 0.005	76.2 3.00	3	12.7 0.50	44.4 1.75	73.2 2.88	14.2 0.56	T45885	0.13 0.005	120.6 4.75	3	15.7 0.62	88.9 3.50	117.3 4.62	17.5 0.69
T50609	0.18 0.007	to						T50634	0.18 0.007	to					
T50610	0.51 0.020	85.9 3.38						T45887	0.51 0.020	124.0 4.88					
T50611	0.13 0.005	8.9 3.50	3	12.7 0.50	57.2 2.25	85.9 3.38	14.2 0.56	T50614	0.13 0.005	127.0 5.00	4	19.0 0.75	88.9 3.50	124.0 4.88	20.6 0.81
T50612	0.18 0.007	to						T50615	0.18 0.007	to					
T50613	0.51 0.020	104.6 4.12						T50616	0.51 0.020	136.7 5.38					

These parts have been designed and developed for use with Timken bearings only.

## AUXILIARY PARTS – CONE SHIMS

### Standard Metal Shims for Cone Adjusted Bearings



Suggested shim sets consist of three **0.13 mm** (blue) (0.005 in.), three **0.18 mm** (silver) (0.007 in.), and one **0.51 mm** (yellow) (0.020 in.) thick shims.  
 When ordering, specify the exact quantity for each part number.  
 Shims shown in this table are made from aluminum.

shims		shaft size	cap screws		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	shims		shaft size	cap screws		d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>
part number	thickness		no.	size				part number	thickness		no.	size			
T50617	0.13 0.005	139.7 5.50	4	19.0 0.75	88.9 3.50	136.7 5.38	20.6 0.81	T50623	0.13 0.005	177.8 7.00	6	25.4 1.00	127.0 5.00	174.8 6.88	26.9 1.06
T50618	0.18 0.007	to						T50624	0.18 0.007	200.2 7.88					
T50619	0.51 0.020	149.4 5.88						T50625	0.51 0.020	200.2 7.88					
T50620	0.13 0.005	152.7 6.00	6	19.0 0.75	101.6 4.00	149.4 5.88	20.6 0.81	T50626	0.13 0.005	203.2 8.00	6	31.8 1.25	152.4 6.00	200.2 7.88	33.3 1.31
T50621	0.18 0.007	to						T50627	0.18 0.007						
T50622	0.51 0.020	174.8 6.88						T50628	0.51 0.020						

**These parts have been designed and developed for use with Timken bearings only.**

## AUXILIARY PARTS – LOCKNUTS, LOCKWASHERS, AND TONGUED WASHERS

### Standard Locknut, Lockwasher, and Tongued Washer Assemblies

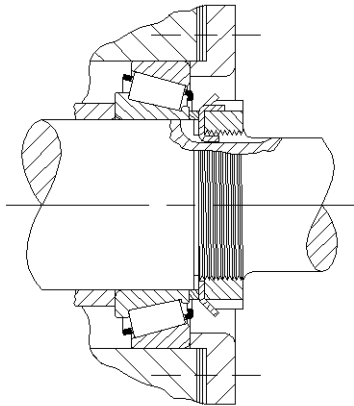


Figure 1

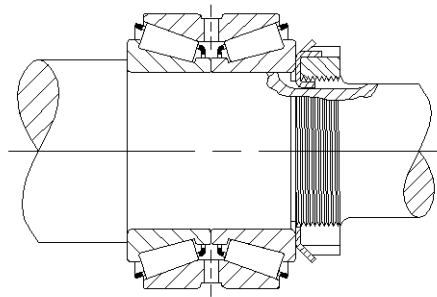


Figure 2

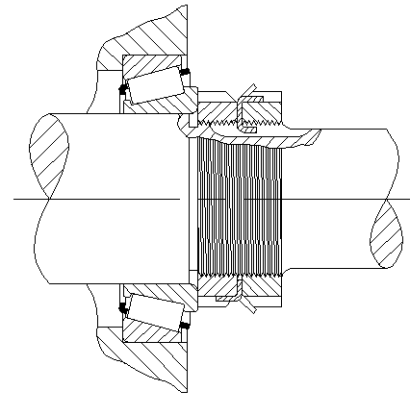


Figure 3

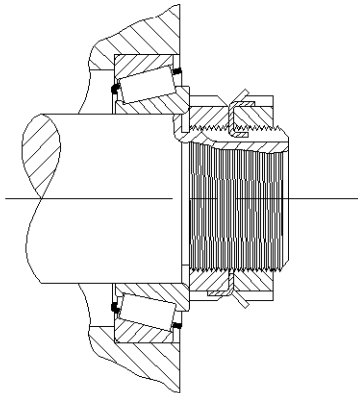


Figure 4

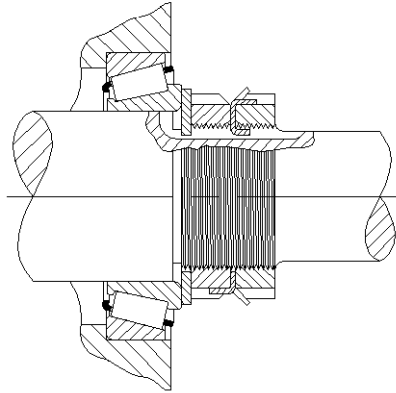


Figure 5

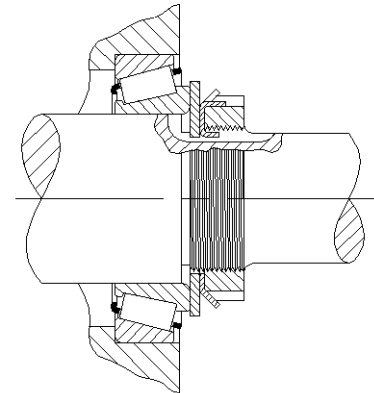


Figure 6

The designs shown in figures 1 to 6 inclusive show various methods of using standard locknuts, lockwashers, and tongued washers, indicated in the tables on pages 285 through 286. A single locknut and lockwasher can be used to clamp the cone against a sleeve, shown in figure 1, or directly against a shaft shoulder. A narrow spacer is applied between the front face of the cone and the lockwasher so that the lockwasher will clear the bearing cage by a minimum of 3mm (0.12 in). The spacer outside diameter should be made a minimum of 6mm (0.24 in) smaller than the cage inside diameter, but must still provide the recommended cone backing diameter as found in the Timken engineering journal. Figure 2 shows another clamped design using a single locknut and lockwasher with a two-row bearing of either type TDO with cone spacer or type TNA. Since no cage clearance problem is present, the narrow spacer shown in figure 1 is unnecessary.

Figures 3, 4, and 5 indicate an adjustable bearing arrangement using two locknuts and a lockwasher. These may be used with either single or two-row bearing of the types permitting a cone adjusted arrangement. The design in figure 3 allows the maximum shaft extension diameter that can be used with a shaft thread outside diameter, which will be less than the cone

bore. Figure 4 shows an alternate design with smaller thread diameter and corresponding smaller locknuts and lockwasher. The locknut outside diameter, minus 2 times "r" (pages 285 through 286), must not be less than the recommended cone backing diameter as found in the Timken engineering journal. Figure 5 indicates the use of a tongued washer located between the inner locknut and cone. This is intended for applications where the cones are applied with loose fits on hardened stationary shafts as found in many automotive applications. The hardened tongued washers are not sold by The Timken Company.

When space does not permit the use of two locknuts and a lockwasher in an adjustable arrangement, and a single locknut and a lockwasher is used, then a tongued washer must be placed between the cone and lockwasher as illustrated in figure 6. This is necessary to provide adequate backing for the cone, in most cases, and to prevent damage to the lockwasher if the cone should creep on the shaft. The tongued washers are available from The Timken Company.

# AUXILIARY PARTS – LOCKNUTS, LOCKWASHERS AND TONGUED WASHERS

## Inch Design

### Standard Locknuts, Lockwashers, and Tongued Washers for Tapered Roller Bearings

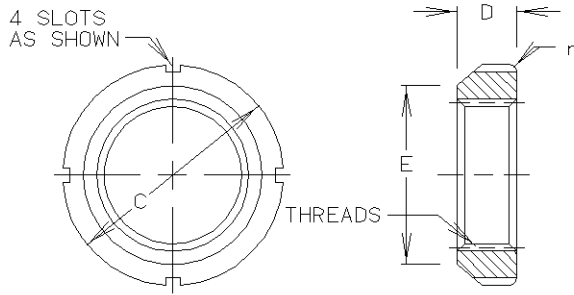


Figure 1 – Locknuts

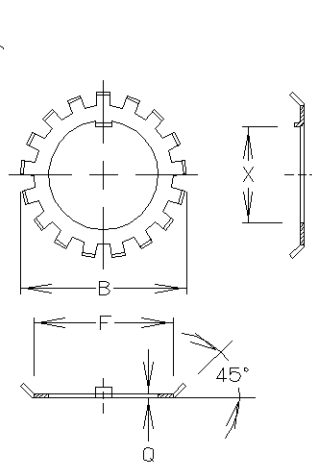


Figure 2 – Lockwashers

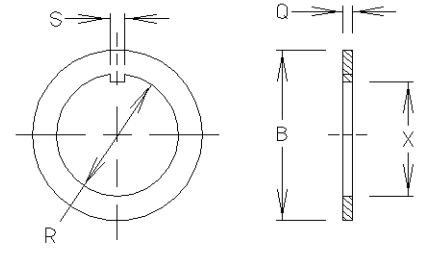


Figure 3 – Tongued Washers

Threads are American National, Form NS, Class 3, with thread length based on 45° chamfer.

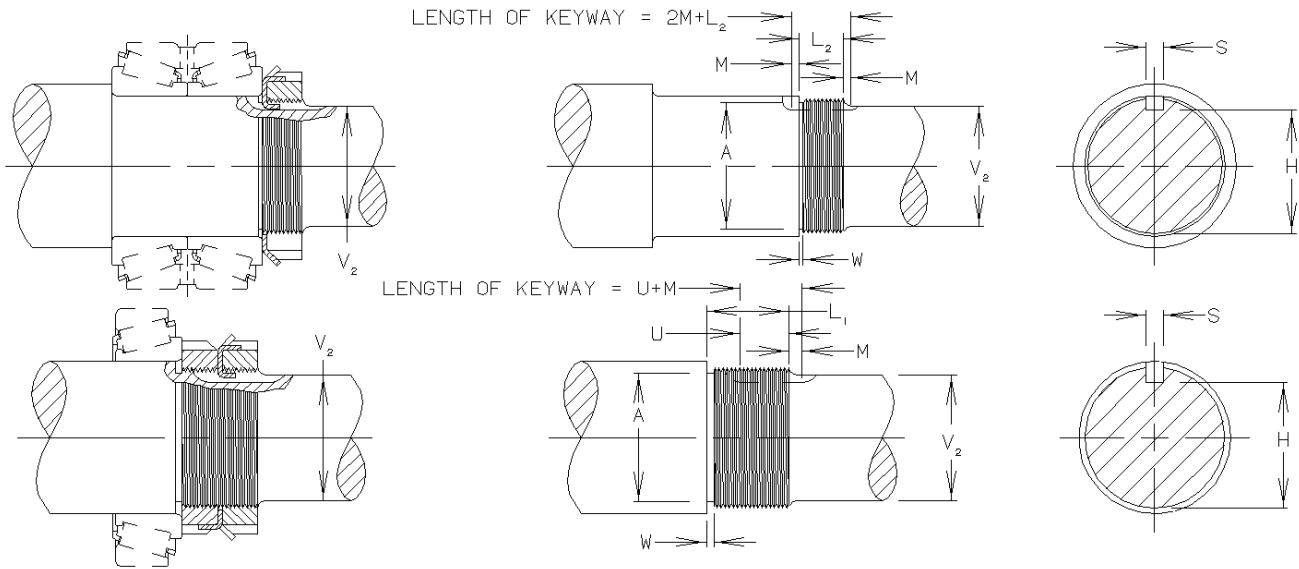
ABMA locknut number	locknut dimensions						lockwasher dimensions					tongued washer dimensions						
	threads		outside diameter C	maximum thickness D	face outside diameter E	r	ABMA lockwasher number	maximum diameter over tangs B	face diameter F	thickness Q	number of tangs	tongued washer number	bore R		outside diameter B	minimum thickness Q	key	
	minimum value of major diameter	number per inch											min	max			S max	X min
N-00	0.391	32	0.755	0.229	0.625	0.047	TW100	0.891	0.625	0.032	9	K91500*	0.406	0.421	0.798	0.109	0.120	0.334
N-01	0.469	32	0.880	0.323	0.719	0.047	TW101	1.031	0.719	0.032	9	K91501	0.484	0.499	0.923	0.109	0.120	0.412
N-02	0.586	32	1.005	0.323	0.813	0.047	TW102	1.156	0.813	0.048	11	K91502	0.601	0.616	1.173	0.125	0.120	0.513
N-03	0.664	32	1.130	0.354	0.938	0.047	TW103	1.344	0.938	0.048	11	K91503	0.679	0.694	1.173	0.125	0.120	0.591
N-04	0.781	32	1.380	0.385	1.125	0.047	TW104	1.563	1.125	0.048	11	K91504	0.801	0.816	1.423	0.125	0.176	0.713
N-05	0.969	32	1.568	0.416	1.281	0.047	TW105	1.703	1.281	0.052	13	K91505	0.989	1.009	1.860	0.125	0.176	0.897
N-06	1.173	18	1.755	0.416	1.500	0.047	TW106	1.953	1.500	0.052	13	K91506	1.193	1.213	1.860	0.125	0.176	1.081
TN-065	1.312	18	2.068	0.448	1.813	0.063	TW065	2.234	1.813	0.052	15	K915065	1.333	1.353	2.173	0.125	0.176	1.221
TN-07	1.376	18	2.068	0.448	1.813	0.063	TW107	2.250	1.813	0.052	15	K91507	1.396	1.416	2.173	0.125	0.176	1.284
TN-08	1.563	18	2.255	0.448	2.000	0.063	TW108	2.484	2.000	0.062	15	K91508	1.583	1.603	2.735	0.156	0.290	1.461
TN-09	1.767	18	2.536	0.448	2.281	0.063	TW109	2.719	2.281	0.062	17	K91509	1.792	1.817	2.735	0.156	0.290	1.670
TN-10	1.967	18	2.693	0.510	2.438	0.063	TW110	2.922	2.438	0.062	17	K91510	1.992	2.017	3.235	0.156	0.290	1.870
TN-11	2.157	18	2.974	0.510	2.656	0.063	TW111	3.094	2.656	0.062	17	K91511	2.182	2.207	3.235	0.156	0.290	2.060
TN-12	2.360	18	3.161	0.541	2.844	0.063	TW112	3.328	2.844	0.072	17	K91512	2.400	2.425	3.735	0.187	0.290	2.248
TN-13	2.548	18	3.380	0.573	3.063	0.094	TW113	3.563	3.063	0.072	19	K91513	2.588	2.613	3.735	0.187	0.290	2.43
TN-14	2.751	18	3.630	0.573	3.313	0.094	TW114	3.813	3.313	0.072	19	K91514	2.791	2.816	3.735	0.187	0.290	2.639
TAN-15	2.933	12	3.880	0.604	3.563	0.094	TW115	4.047	3.563	0.085	19	K91515	2.973	3.003	4.173	0.218	0.290	2.808
TAN-16	3.137	12	4.161	0.604	3.844	0.094	TW116	4.391	3.844	0.085	19	K91516	3.177	3.207	4.173	0.218	0.353	3.012
TAN-17	3.340	12	4.411	0.635	4.031	0.094	TW117	4.625	4.031	0.085	19	K91517	3.395	3.425	4.610	0.218	0.353	3.230
TAN-18	3.527	12	4.661	0.698	4.281	0.094	TW118	4.953	4.281	0.115	19	K91518	3.582	3.612	5.110	0.250	0.353	3.387
TAN-19	3.730	12	4.943	0.729	4.562	0.125	TW119	5.234	4.563	0.115	19	K91519	3.800	3.830	5.110	0.250	0.353	3.605
TAN-20	3.918	12	5.193	0.760	4.813	0.125	TW120	5.484	4.813	0.115	19	K91520	3.988	4.018	5.610	0.250	0.353	3.778
TAN-21	4.122	12	5.443	0.760	5.000	0.125	TW121	5.703	5.000	0.115	19	K91521	4.192	4.222	5.610	0.250	0.353	3.982
TAN-22	4.325	12	5.724	0.791	5.281	0.125	TW122	6.000	5.281	0.130	19	K91522	4.395	4.425	6.110	0.281	0.353	4.170
TAN-24	4.716	12	6.130	0.823	5.688	0.125	TW124	6.531	5.688	0.155	19	K91524	4.801	4.831	6.735	0.375	0.353	4.551
TAN-26	5.106	12	6.755	0.885	6.188	0.125	TW126	7.047	6.188	0.155	19	K91526	5.191	5.226	7.485	0.375	0.435	4.921
TAN-128	5.497	12	7.099	1.198	6.531	0.125	TW128	7.438	6.531	0.155	19	K91528	5.582	5.617	7.485	0.375	0.590	5.312
TAN-130	5.888	12	7.693	1.260	7.063	0.125	TW130	8.063	7.063	0.193	19	K91530*	5.983	6.018	7.985	0.375	0.590	5.675
TAN-132	6.284	8	8.068	1.291	7.438	0.156	TW132	8.453	7.438	0.193	19	K91532	6.389	6.424	8.485	0.375	0.590	6.081
TAN-134	6.659	8	8.661	1.354	8.031	0.156	TW134	9.078	8.031	0.193	19	K91534*	6.764	6.799	8.985	0.375	0.715	6.456
TAN-136	7.066	8	9.06	1.416	8.375	0.156	TW136	9.438	8.375	0.193	19	K91536*	7.171	7.206	9.235	0.375	0.715	6.863
TAN-138	7.472	8	9.474	1.416	8.781	0.156	TW138	9.859	8.781	0.193	19	K91538*	7.577	7.612	9.735	0.375	0.715	7.269
TAN-140	7.847	8	9.849	1.510	9.156	0.156	TW140	10.406	9.156	0.193	19	K91540	7.982	8.017	10.110	0.375	0.840	7.674

\* custom manufactured item

# AUXILIARY PARTS – LOCKNUTS, LOCKWASHERS, AND TONGUED WASHERS

## Inch Design

### Shaft Thread and Keyway Dimensions for Standard Locknuts, Lockwashers, and Tongued Washers



These dimensions are ABMA standards.

ABMA locknut number	number per inch	threads									shaft ext dia $V_2$ max	thread length		keyway			
		major diameter			pitch diameter (1)			minor diameter max	relief diameter A	relief width W $+0.016$ $-0.000$		$L_1$ $+0.016$ $-0.000$	$L_2$ $+0.016$ $-0.000$	depth H	width S	key	
		max	tol	min	max	tol	min									M $+0.016$ $-0.000$	U $+0.016$ $-0.000$
N-00	32	0.391	0.0054	0.3856	0.3707	0.0026	0.3681	0.3527	0.3371 ± 0.005	0.062	0.312	0.593	0.375	0.287	0.125	0.094	0.469
N-01	32	0.469	0.0054	0.4636	0.4487	0.0026	0.4461	0.4307	0.4151 ± 0.005	0.062	0.406	0.781	0.468	0.366	0.125	0.094	0.562
N-02	32	0.586	0.0054	0.5806	0.5657	0.0030	0.5627	0.5477	0.5321 ± 0.005	0.062	0.500	0.812	0.500	0.485	0.125	0.094	0.594
N-03	32	0.664	0.0054	0.6586	0.6437	0.0030	0.6407	0.6257	0.6101 ± 0.005	0.062	0.562	0.875	0.531	0.564	0.125	0.094	0.625
N-04	32	0.781	0.0054	0.7756	0.7607	0.0034	0.7573	0.7427	0.7271 ± 0.005	0.062	0.703	0.906	0.531	0.676	0.188	0.094	0.625
N-05	32	0.969	0.0054	0.9636	0.9487	0.0034	0.9453	0.9307	0.9151 ± 0.005	0.062	0.875	1.000	0.593	0.835	0.188	0.125	0.719
N-06	18	1.173	0.0082	1.1648	1.1369	0.0040	1.1329	1.1048	1.0892 ± 0.005	0.093	1.062	1.000	0.593	1.040	0.188	0.125	0.719
TN-065	18	1.312	0.0082	1.3043	1.2764	0.0040	1.2724	1.2443	1.2287 ± 0.005	0.093	1.188	1.062	0.625	1.180	0.188	0.125	0.750
N-07	18	1.376	0.0082	1.3678	1.3399	0.0040	1.3359	1.3078	1.2922 ± 0.005	0.093	1.250	1.062	0.625	1.244	0.188	0.125	0.750
N-08	18	1.563	0.0082	1.5548	1.5269	0.0045	1.5224	1.4948	1.4792 ± 0.005	0.093	1.438	1.062	0.625	1.422	0.312	0.125	0.750
N-09	18	1.767	0.0082	1.7588	1.7309	0.0045	1.7264	1.6988	1.6832 ± 0.005	0.125	1.656	1.062	0.625	1.628	0.312	0.156	0.781
N-10	18	1.967	0.0082	1.9588	1.9309	0.0045	1.9264	1.8988	1.8832 ± 0.005	0.125	1.859	1.187	0.687	1.830	0.312	0.156	0.844
N-11	18	2.157	0.0082	2.1488	2.1209	0.0051	2.1158	1.8988	2.0732 ± 0.005	0.125	2.047	1.187	0.687	2.021	0.312	0.156	0.844
N-12	18	2.360	0.0082	2.3518	2.3239	0.0051	2.3188	2.0888	2.2762 ± 0.005	0.125	2.250	1.281	0.750	2.194	0.312	0.156	0.906
N-13	18	2.548	0.0082	2.5398	2.5119	0.0051	2.5068	2.2918	2.4642 ± 0.005	0.125	2.422	1.343	0.781	2.382	0.312	0.156	0.938
N-14	18	2.751	0.0082	2.7428	2.7149	0.0051	2.7097	2.4798	2.6672 ± 0.005	0.125	2.625	1.343	0.781	2.586	0.312	0.250	1.000
TAN-15	12	2.933	0.0112	2.9218	2.8789	0.0054	2.8735	2.6828	2.7995 ± 0.010	0.156	2.781	1.406	0.812	2.737	0.312	0.250	1.031
TAN-16	12	3.137	0.0112	3.1258	3.0829	0.0059	3.0770	2.8308	3.0035 ± 0.010	0.156	3.000	1.406	0.812	2.938	0.375	0.250	1.031
TAN-17	12	3.340	0.0112	3.3288	3.2859	0.0059	3.2800	3.0348	3.2065 ± 0.010	0.156	3.188	1.468	0.843	3.141	0.375	0.250	1.062
TAN-18	12	3.527	0.0112	3.5158	3.4729	0.0074	3.4655	3.2378	3.3935 ± 0.010	0.156	3.375	1.625	0.937	3.298	0.375	0.250	1.156
TAN-19	12	3.730	0.0112	3.7188	3.6759	0.0074	3.6685	3.4248	3.5965 ± 0.010	0.156	3.562	1.687	0.968	3.502	0.375	0.250	1.188
TAN-20	12	3.918	0.0112	3.9068	3.8639	0.0074	3.8565	3.6278	3.7845 ± 0.010	0.156	3.766	1.750	1.000	3.690	0.375	0.312	1.281
TAN-21	12	4.122	0.0112	4.1108	4.0679	0.0083	4.0596	3.8158	3.9885 ± 0.010	0.156	3.938	1.750	1.000	3.894	0.375	0.312	1.281
TAN-22	12	4.325	0.0112	4.3138	4.2709	0.0083	4.2626	4.0198	4.1915 ± 0.010	0.156	4.156	1.812	1.031	4.098	0.375	0.312	1.312
TAN-24	12	4.716	0.0112	4.7048	4.6619	0.0083	4.6536	4.4138	4.5252 ± 0.010	0.156	4.531	1.906	1.093	4.458	0.375	0.312	1.375
TAN-26	12	5.106	0.0112	5.0948	5.0519	0.0083	5.0436	5.0038	4.9725 ± 0.010	0.156	4.906	2.031	1.156	4.844	0.500	0.312	1.438
TAN-128	12	5.497	0.0112	5.4858	5.4429	0.0083	5.4346	5.3948	5.3635 ± 0.010	0.156	5.297	2.656	1.468	5.229	0.625	0.312	1.750
TAN-130	12	5.888	0.0112	5.8768	5.8339	0.0083	5.8256	5.7858	5.7545 ± 0.010	0.156	5.656	2.812	1.562	5.590	0.625	0.375	1.906
TAN-132	8	6.284	0.0152	6.2688	6.2028	0.0091	6.1937	6.1306	6.0993 ± 0.010	0.250	6.062	2.875	1.593	5.956	0.625	0.375	1.938
TAN-134	8	6.659	0.0152	6.6438	6.5778	0.0091	6.5687	6.5056	6.4743 ± 0.010	0.250	6.438	3.000	1.656	6.326	0.750	0.375	2.000
TAN-136	8	7.066	0.0152	7.0508	6.9848	0.0091	6.9757	6.9126	6.8813 ± 0.010	0.250	6.844	3.125	1.718	6.734	0.750	0.375	2.062
TAN-138	8	7.472	0.0152	7.4568	7.3908	0.0091	7.3817	7.3186	7.2873 ± 0.010	0.250	7.250	3.125	1.718	7.141	0.750	0.375	2.062
TAN-140	8	7.847	0.0152	7.8318	7.7658	0.0114	7.7544	7.6936	7.6623 ± 0.010	0.250	7.625	3.312	1.812	7.510	0.875	0.375	2.125

(1) This standard is applicable to steel nuts. When either the nut or the shaft is made of stainless steel, aluminum, or other material having a tendency to seize, it is recommended that the maximum thread diameter of the shaft, both major and pitch, be reduced by 20% of the listed pitch diameter tolerance.

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
7.938	31.991	10.008	A2031	A2126	18.313	49.225	23.020	09072W	09194
.3125	1.2595	.3940			.7210	1.9380	.9063		
9.525	31.991	10.008	A2037	A2126	19.000	52.883	21.034	09075	09194-S
.3750	1.2595	.3940			.7480	2.0820	.8281		
11.112	31.991	11.961	A2043	A2126	19.004	56.896	19.368	1774	1729
.4375	1.2595	.4709			.7482	2.2400	.7625		
11.112	34.989	10.998	A4044	A4138	19.050	39.992	12.014	A6075	A6157
.4375	1.3775	.4330			.7500	1.5745	.4730		
11.112	38.100	17.635	00068X	00150	19.050	44.450	12.700	4A	6
.4375	1.5000	.6943			.7500	1.7500	.5000		
11.986	31.991	10.008	A2047	A2126	19.050	44.450	15.494	05075	05175
.4719	1.2595	.3940			.7500	1.7500	.6100		
12.680	34.989	10.998	A4049	A4138	19.050	45.237	15.494	LM11949	LM11910
.4992	1.3775	.4330			.7500	1.7810	.6100		
12.700	34.989	10.998	A4050	A4138	19.050	49.225	21.209	09067	09194
.5000	1.3775	.4330			.7500	1.9380	.8350		
12.700	38.100	13.495	00050	00150	19.050	52.388	23.177	1351	1328
.5000	1.5000	.5313			.7500	2.0625	.9125		
13.500	38.100	13.495	00059	00150	19.050	53.975	22.225	21075	21212
.5315	1.5000	.5313			.7500	2.1250	.8750		
14.288	44.450	20.637	1163X	1120NI	19.050	56.896	19.368	1775	1729
.5625	1.7500	.8125			.7500	2.2400	.7625		
14.989	34.989	10.998	A4059	A4138	19.588	44.450	14.236	4CX	6
.5901	1.3775	.4330			.7712	1.7500	.5605		
15.000	42.000	14.250	X30302	Y30302	19.987	44.450	15.494	05079	05175
.5906	1.6535	.5610			.7869	1.7500	.6100		
15.875	34.989	10.998	L21549	L21511	19.987	50.005	13.495	07079X	07196
.6250	1.3775	.4330			.7869	1.9687	.5313		
15.875	39.992	12.014	A6062	A6157	20.000	50.005	13.495	07079	07196
.6250	1.5745	.4730			.7874	1.9687	.5313		
15.875	40.000	14.287	03062	03157X	20.000	52.000	15.000	157	153
.6250	1.5748	.5625			.7874	2.0472	.5905		
15.875	42.862	14.287	11590	11520	20.000	42.000	15.000	X32004X	YAA32004X
.6250	1.6875	.5625			.7874	1.6535	.5906		
15.875	42.862	16.670	17580	17520	20.000	47.000	15.250	X30204M	Y30204M
.6250	1.6875	.6563			.7874	1.8504	.6004		
15.875	44.450	15.494	05062	05175	20.000	47.000	19.250	X32204	Y32204
.6250	1.7500	.6100			.7874	1.8504	.7579		
15.875	44.450	20.637	1178X	1120NI	20.000	52.000	16.250	X30304	Y30304
.6250	1.7500	.8125			.7874	2.0472	.6398		
15.875	49.225	23.020	09062	09194	20.000	52.000	22.250	X32304M	Y32304M
.6250	1.9380	.9063			.7874	2.0472	.8760		
15.875	53.975	22.225	21063	21212	20.612	50.800	20.637	09081-S	09201
.6250	2.1250	.8750			.8115	2.0000	.8125		
15.987	46.975	21.000	HM81649	HM81610	20.622	62.000	17.983	248X	242
.6294	1.8494	.8268			.8119	2.4409	.7080		
16.993	39.992	12.014	A6067	A6157	20.625	49.225	23.020	09081	09194
.6690	1.5745	.4730			.8120	1.9380	.9063		
16.993	44.450	15.494	05066	05175	20.627	56.896	19.368	1778	1729
.6690	1.7500	.6100			.8121	2.2400	.7625		
17.000	40.000	13.250	X30203	Y30203	20.638	44.450	14.236	4CB	6
.6693	1.5748	.5217			.8125	1.7500	.5605		
17.000	47.000	15.250	X30303	Y30303	20.638	45.784	26.193	1551	1530
.6693	1.8504	.6004			.8125	1.8025	1.0312		
17.000	40.000	14.287	03066X	03157X	20.638	49.225	19.845	12580	12520
.6693	1.5748	.5625			.8125	1.9380	.7813		
17.455	36.525	11.112	A5069	A5144	20.638	61.912	28.575	3660	3620
.6872	1.4380	.4375			.8125	2.4375	1.1250		
17.462	39.878	13.843	LM11749	LM11710	21.422	56.896	19.368	1784A	1729
.6875	1.5700	.5450			.8434	2.2400	.7625		
17.462	44.450	12.700	4C	6	21.430	45.237	15.494	LM12748	LM12710
.6875	1.7500	.5000			.8437	1.7810	.6100		
17.462	44.450	15.494	05068	05175	21.430	50.005	17.526	M12649	M12610
.6875	1.7500	.6100			.8437	1.9687	.6900		
17.653	49.225	19.845	09070	09195	21.986	45.237	15.494	LM12749	LM12710
.6950	1.9380	.7813			.8656	1.7810	.610		
17.988	44.450	15.494	05070XS	05175	22.225	42.070	11.176	LL52549	LL52510
.7082	1.7500	.6100			.8750	1.6563	.4400		
18.000	44.450	15.494	05070X	05175	22.225	50.005	13.495	07087	07196
.7087	1.7500	.6100			.8750	1.9687	.5313		

The Bearing Dimension Catalog is not to be used as a design manual.  
The cone bore section does not include all available parts – see series for additional information.





## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
22.225 .8750	50.005 1.9687	17.526 .6900	M12648	M12610	25.000 .9843	62.000 2.4409	25.250 .9941	X32305	Y32305
22.225 .8750	52.388 2.0625	19.367 .7625	1380	1328	25.000 .9843	50.005 1.9687	13.495 .5313	07097	07196
22.225 .8750	56.896 2.2400	19.368 .7625	1755	1729	25.000 .9843	62.000 2.4409	16.002 .630	17098X	17244
22.225 .8750	56.896 2.2400	19.845 .7813	1975	1920	25.000 .9843	62.000 2.4409	17.000 .6693	237	233
22.225 .8750	56.896 2.2400	23.812 .9375	2380	2320	25.000 .9843	62.000 2.4409	17.983 .7080	247	242
22.225 .8750	57.150 2.2500	19.050 .7500	M53648	M53611	25.000 .9843	63.500 2.5000	21.691 .8540	23098-S	23250X
22.225 .8750	57.150 2.2500	22.225 .8750	1280	1220	25.159 .9905	50.005 1.9687	13.495 .5313	07096	07196
22.225 .8750	61.912 2.4375	36.513 1.4375	3655	3620	25.273 .9950	50.005 1.9687	13.495 .5313	07099	07196
22.225 .8750	62.000 2.4409	17.983 .7080	246X	242	25.400 1.0000	49.225 1.9380	15.872 .6249	12CB	13C
22.225 .8750	63.100 2.4843	23.812 .9375	2684	2620	25.400 1.0000	50.005 1.9687	13.495 .5313	07100	07196
22.225 .8750	72.626 2.8593	26.988 1.0625	320	312	25.400 1.0000	50.292 1.9800	14.224 .5600	L44642	L44610
22.606 .8900	47.000 1.8504	15.500 .6102	LM72849	LM72810	25.400 1.0000	56.896 2.2400	19.368 .7625	1780	1729
22.987 .9050	50.005 1.9687	13.495 .5313	07090X	07196	25.400 1.0000	56.896 2.2400	19.845 .7813	1986	1920
23.812 .9375	49.225 1.9380	15.872 .6249	12CA	13C	25.400 1.0000	56.896 2.2400	33.337 1.3125	2356	2320
23.812 .9375	50.005 1.9687	13.495 .5313	07093	07196	25.400 1.0000	57.150 2.2500	17.462 .6875	15578	15520
23.812 .9375	50.292 1.9800	14.224 .5600	L44640	L44610	25.400 1.0000	57.150 2.2500	19.431 .7650	M84548	M84510
23.812 .9375	56.896 2.2400	21.826 .8593	1990X	1920	25.400 1.0000	59.530 2.3437	23.368 .9200	M84249	M84210
23.812 .9375	56.896 2.2400	23.812 .9375	2381	2320	25.400 1.0000	61.912 2.4375	19.050 .7500	15100	15243
23.812 .9375	56.896 2.2400	23.813 .9375	1751	1729	25.400 1.0000	62.000 2.4409	17.000 .6693	236	233
23.812 .9375	57.150 2.2500	18.654 .7344	15574A	15520	25.400 1.0000	62.000 2.4409	17.983 .7080	0247	242
23.812 .9375	61.912 2.4375	28.575 1.1250	3659	3620	25.400 1.0000	63.100 2.4843	23.812 .9375	2687	2620
23.812 .9375	62.000 2.4409	17.000 .6693	235	233	25.400 1.0000	63.500 2.5000	21.691 .8540	23100	23250X
23.812 .9375	63.100 2.4843	23.812 .9375	2683	2620	25.400 1.0000	64.292 2.5312	21.432 .8438	M86643	M86610
23.812 .9375	63.500 2.5000	21.691 .8540	23092	23250X	25.400 1.0000	66.987 2.6373	20.500 .8071	02473	02419
23.812 .9375	69.723 2.7450	19.050 .7500	26093	2627	25.400 1.0000	68.262 2.6875	22.225 .8750	M88036	M88010
23.812 .9375	72.000 2.8346	39.738 1.5645	3162	3120-S	25.400 1.0000	68.262 2.6875	22.225 .8750	2473	2420
24.384 .9600	76.200 3.0000	24.608 .9688	43096	43300	25.400 1.0000	69.723 2.7450	19.050 .7500	26100	26274
24.981 .9835	50.005 1.9687	13.495 .5313	07098	07196	25.400 1.0000	72.233 2.8438	25.400 1.0000	HM88630	HM88610
24.981 .9835	62.000 2.4409	16.002 .6300	17098	17244	25.400 1.0000	72.626 2.8593	24.607 .9688	41100	41286
25.000 .9842	85.725 3.3750	21.000 .8268	V334A	3320X	25.400 1.0000	72.626 2.8593	26.988 1.0625	315	312
25.000 .9843	47.000 1.8504	15.000 .5906	X32005X	YAA32005X	25.400 1.0000	72.626 2.8593	30.162 1.1875	3189	3120
25.000 .9843	52.000 2.0472	16.250 .6398	X30205	YAA30205	25.400 1.0000	80.167 3.1562	26.987 1.0625	338	3320
25.000 .9843	52.000 2.0472	19.250 .7579	X32205B	YAA32205B	25.776 1.0148	72.626 2.8593	26.988 1.0625	321	312
25.000 .9843	52.000 2.0472	22.000 .8661	X33205	Y33205	25.987 1.0231	50.292 1.9800	14.224 .5600	L44645	L44610
25.000 .9843	62.000 2.4409	18.250 .7185	X30305M	Y30305M	25.987 1.0231	57.150 2.2500	17.462 .6875	15579X	15520

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
26.157	61.912	19.050	15103	15243	29.987	61.912	18.161	15115	15243
1.0298	2.4375	.7500			1.1806	2.4375	.7150		
26.162	57.150	18.654	15579A	15520	29.987	62.000	16.002	17118	17244
1.0300	2.2500	.7344			1.1806	2.4409	.6300		
26.162	61.912	19.050	15103-S	15243	29.987	66.987	20.500	02474A	02419
1.0300	2.4375	.7500			1.1806	2.6373	.8071		
23.812	63.100	23.812	2682	2620	29.987	69.012	19.050	14118AS	14272
1.0300	2.4843	.9375			1.1806	2.7170	.7500		
26.975	56.896	19.845	1987	1920	29.987	69.723	19.050	26118	26274
1.0620	2.2400	.7813			1.1806	2.7450	.7500		
26.988	50.292	14.224	L44649	L44610	29.987	76.200	24.608	43117	43300
1.0625	1.9800	.5600			1.1806	3.0000	.9688		
26.988	56.896	19.845	1997X	1920	30.000	61.912	19.050	15117X	15243
1.0625	2.2400	.7813			1.1811	2.4375	.7500		
26.988	57.150	17.462	15580	15520	30.000	62.000	16.002	17118-S	17244
1.0625	2.2500	.6875			1.1811	2.4409	.6300		
26.988	57.150	19.431	M84549	M84510	30.000	66.421	25.400	2560X	2520
1.0625	2.2500	.7650			1.1811	2.6150	1.0000		
26.988	61.912	19.050	15106	15243	30.000	69.012	19.050	14117A	14272
1.0625	2.4375	.7500			1.1811	2.7170	.7500		
26.988	63.100	23.812	2688	2620	30.000	69.723	19.050	26118-S	26274
1.0625	2.4843	.9375			1.1811	2.7450	.7500		
26.988	72.000	17.000	258	25	30.000	72.626	26.988	319	312
1.0625	2.8346	.6693			1.1811	2.8593	1.0625		
26.988	72.626	24.607	41106	41286	30.000	72.626	30.162	3190	3120
1.0625	2.8593	.9688			1.1811	2.8593	1.1875		
27.200	63.100	23.812	2681	2620	30.000	82.550	34.925	416	412
1.0709	2.4843	.9375			1.1811	3.2500	1.3750		
27.988	66.987	20.500	02473X	02419	30.000	62.000	17.000	X32006X	YGA32006X
1.1019	2.6373	.8071			1.1811	2.4409	.6693		
28.575	56.896	19.845	1984W	1920	30.000	62.000	17.250	X30206M	Y30206M
1.1250	2.2400	.7813			1.1811	2.4409	.6791		
28.575	57.150	17.462	15590	15520	30.000	62.000	21.250	X32206B	Y32206B
1.1250	2.2500	.6875			1.1811	2.4409	.8366		
28.575	59.131	15.875	LM67043	LM67010	30.000	62.000	25.000	X33206	Y33206
1.1250	2.3280	.6250			1.1811	2.4409	.9843		
28.575	61.912	19.050	15112	15243	30.000	72.000	20.750	X30306M	Y30306M
1.1250	2.4375	.7500			1.1811	2.8346	.8169		
28.575	63.100	23.812	2689	2620	30.000	72.000	28.750	X32306	Y32306
1.1250	2.4843	.9375			1.1811	2.8346	1.1319		
28.575	64.292	21.432	M86647	M86610	30.112	61.912	19.050	15116	15243
1.1250	2.5312	.8438			1.1855	2.4375	.7500		
28.575	66.421	19.052	24112	24261	30.124	64.287	18.273	40	36X
1.1250	2.6150	.7501			1.1860	2.5310	.7194		
28.575	66.421	25.400	2578	2520	30.162	58.738	14.683	08118	08231
1.1250	2.6150	1.0000			1.1875	2.3125	.5781		
28.575	66.987	20.500	02474	02419	30.162	61.087	19.050	29	32
1.1250	2.6373	.8071			1.1875	2.4050	.7500		
28.575	68.262	22.225	M88040	M88010	30.162	62.000	16.002	17119	17244
1.1250	2.6875	.8750			1.1875	2.4409	.6300		
28.575	68.262	22.225	2474	2420	30.162	64.292	21.432	M86649	M86610
1.1250	2.6875	.8750			1.1875	2.5312	.8438		
28.575	69.723	19.050	26112	26274	30.162	66.421	19.052	24118	24261
1.1250	2.7450	.7500			1.1875	2.6150	.7501		
28.575	72.626	24.607	41125	41286	30.162	66.421	25.400	2558	2520
1.1250	2.8593	.9688			1.1875	2.6150	1.0000		
28.575	72.626	30.162	3192	3120	30.162	68.262	22.225	M88043	M88010
1.1250	2.8593	1.1875			1.1875	2.6875	.8750		
28.575	73.025	22.225	02872	02820	30.162	72.000	17.000	257	253
1.1250	2.8750	.8750			1.1875	2.8346	.6693		
28.575	82.550	25.400	43112	43326	30.162	72.626	26.988	316	312
1.1250	3.2500	1.0000			1.1875	2.8593	1.0625		
28.575	90.000	30.958	445	429XS	30.162	72.626	30.162	3187	3120
1.1250	3.5433	1.2188			1.1875	2.8593	1.1875		
29.000	50.292	14.224	L45449	L45410	30.162	76.200	20.637	28118	28300
1.1417	1.9800	.5600			1.1875	3.0000	.8125		
29.367	63.100	23.812	2690	2620	30.162	79.375	29.370	3474	3420
1.1562	2.4843	.9375			1.1875	3.1250	1.1563		
29.972	72.626	26.988	322	312	30.162	82.550	25.400	43118	43326
1.1800	2.8593	1.0625			1.1875	3.2500	1.0000		

# BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
30.162	85.725	21.000	334	3320X	32.000	69.723	19.050	26126X	26274
1.1875	3.3750	.8268			1.2598	2.7450	.7500		
30.162	90.119	23.000	356	352	32.004	69.723	19.050	26126	26274
1.1875	3.5480	.9055			1.2600	2.7450	.7500		
30.175	61.912	19.050	15120A	15243	32.532	66.421	26.988	2584	2520
1.1880	2.4375	.7500			1.2808	2.6150	1.0625		
30.213	61.912	19.050	15118	15243	33.338	66.421	30.955	2554	2520
1.1895	2.4375	.7500			1.3125	2.6150	1.2187		
30.213	66.421	25.400	2561X	2520	33.338	66.675	20.638	1680	1620
1.1895	2.6150	1.0000			1.3125	2.6250	.8125		
30.226	69.012	19.050	14116	14272	33.338	66.675	20.638	M38545	M38510
1.1900	2.7170	.7500			1.3125	2.6250	.8125		
30.955	64.292	21.432	M86648	M86610	33.338	68.262	22.225	M88047	M88010
1.2187	2.5312	.8438			1.3125	2.6875	.8750		
30.955	68.262	22.225	M88045	M88010	33.338	68.262	22.225	16582	16522
1.2187	2.6875	.8750			1.3125	2.6875	.8750		
31.623	66.675	20.638	1674	1620	33.338	69.012	19.050	14130	14272
1.2450	2.6250	.8125			1.3125	2.7170	.7500		
31.750	58.738	14.683	08125	08231	33.338	69.723	19.050	26131	26274
1.2500	2.3125	.5781			1.3125	2.7450	.7500		
31.750	59.131	15.875	LM67045	LM67010	33.338	72.000	17.000	256	253
1.2500	2.3280	.6250			1.3125	2.8346	.6693		
31.750	61.912	19.050	15125	15243	33.338	72.000	19.000	16131	16282
1.2500	2.4375	.7500			1.3125	2.8346	.7480		
31.750	66.421	30.955	2553	2520	33.338	72.626	30.162	3196	3120
1.2500	2.6150	1.2187			1.3125	2.8593	1.1875		
31.750	66.987	20.500	02475	02419	33.338	73.025	22.225	2876	2820
1.2500	2.6373	.8071			1.3125	2.8750	.8750		
31.750	68.262	22.225	M88046	M88010	33.338	73.025	29.370	HM88547	HM88510
1.2500	2.6875	.8750			1.3125	2.8750	1.1563		
31.750	68.262	22.225	16579	16522	33.338	76.200	23.775	2785	2720
1.2500	2.6875	.8750			1.3125	3.0000	.9360		
31.750	68.262	22.225	2475	2420	33.338	76.200	24.608	43131	43300
1.2500	2.6875	.8750			1.3125	3.0000	.9688		
31.750	68.262	26.987	23491	23420	33.338	76.200	29.369	HM89443	HM89410
1.2500	2.6875	1.0625			1.3125	3.0000	1.1563		
31.750	69.012	26.187	14123A	14272	33.338	76.200	29.370	31590	31520
1.2500	2.7170	1.0310			1.3125	3.0000	1.1563		
31.750	72.000	17.000	255	253	33.338	79.375	29.370	3477	3420
1.2500	2.8346	.6693			1.3125	3.1250	1.1563		
31.750	72.233	25.400	HM88644	HM88610	33.338	80.167	26.987	335-S	3320
1.2500	2.8438	1.0000			1.3125	3.1562	1.0625		
31.750	72.626	30.162	3188	3120	33.338	88.500	25.400	44131	44348
1.2500	2.8593	1.1875			1.3125	3.4843	1.0000		
31.750	73.025	22.225	2875	2820	34.925	65.088	18.034	LM48548A	LM48510
1.2500	2.8750	.8750			1.3750	2.5625	.7100		
31.750	73.025	22.225	02875	02820	34.925	66.675	20.638	M38549	M38510
1.2500	2.8750	.8750			1.3750	2.6250	.8125		
31.750	73.025	26.988	23685	23620	34.925	68.262	20.638	14585	14525
1.2500	2.8750	1.0625			1.3750	2.6875	.8125		
31.750	73.025	29.370	HM88542	HM88510	34.925	69.012	26.187	14136A	14272
1.2500	2.8750	1.1563			1.3750	2.7170	1.0310		
31.750	76.200	23.775	2783	2720	34.925	72.000	19.000	16137	16282
1.2500	3.0000	.9360			1.3750	2.8346	.7480		
31.750	76.200	29.369	HM89440	HM89410	34.925	72.233	25.400	HM88649	HM88610
1.2500	3.0000	1.1563			1.3750	2.8438	1.0000		
31.750	79.375	29.370	3476	3420	34.925	72.626	26.988	325	312
1.2500	3.1250	1.1563			1.3750	2.8593	1.0625		
31.750	80.167	26.987	346	3320	34.925	73.025	22.225	2877	2820
1.2500	3.1562	1.0625			1.3750	2.8750	.8750		
31.750	82.550	25.400	43125	43326	34.925	73.025	22.225	02877	02820
1.2500	3.2500	1.0000			1.3750	2.8750	.8750		
31.750	88.500	25.400	44126	44348	34.925	73.025	23.813	25877	25820
1.2500	3.4843	1.0000			1.3750	2.8750	.9375		
31.750	90.000	30.958	443	429XS	34.925	73.025	26.988	23690	23620
1.2500	3.5433	1.2188			1.3750	2.8750	1.0625		
31.986	66.987	20.500	02476X	02419	34.925	73.025	26.988	23790	23720
1.2593	2.6373	.8071			1.3750	2.8750	1.0625		
31.986	72.233	25.400	HM88638	HM88610	34.925	76.200	20.637	28137	28300
1.2593	2.8438	1.0000			1.3750	3.0000	.8125		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
34.925	76.200	23.775	2786	2720	35.000	80.167	25.400	26883	26820
1.3750	3.0000	.9360			1.3780	3.1562	1.0000		
34.925	76.200	29.369	HM89446	HM89410	35.000	80.167	26.987	339	3320
1.3750	3.0000	1.1563			1.3780	3.1562	1.0625		
34.925	76.200	29.370	36137	36300	35.000	82.550	24.608	43138X	43326
1.3750	3.0000	1.1563			1.3780	3.2500	.9688		
34.925	76.200	29.370	31593	31520	35.000	82.550	34.925	421	412
1.3750	3.0000	1.1563			1.3780	3.2500	1.3750		
34.925	79.375	29.370	3478	3420	35.000	90.000	30.958	441	429XS
1.3750	3.1250	1.1563			1.3780	3.5433	1.2188		
34.925	80.035	23.812	27875	27821	35.128	65.088	18.034	LM48545	LM48510
1.3750	3.1510	.9375			1.3830	2.5625	.7100		
34.925	80.167	26.987	335	3320	35.306	73.025	22.225	2880	2820
1.3750	3.1562	1.0625			1.3900	2.8750	.8750		
34.925	80.167	37.307	3360	3320	35.707	76.200	23.775	2791A	2720
1.3750	3.1562	1.4688			1.4058	3.0000	.9360		
34.925	82.550	25.400	43137X	43326	35.710	80.167	37.126	347X	3320
1.3750	3.2500	1.0000			1.4059	3.1562	1.4617		
34.925	82.550	34.925	417	412	35.717	72.233	25.400	HM88648	HM88610
1.3750	3.2500	1.3750			1.4062	2.8438	1.0000		
34.925	84.138	30.162	3581	3520	36.449	73.025	22.225	02884	02820
1.3750	3.3125	1.1875			1.4350	2.8750	.8750		
34.925	85.725	30.163	3872	3820	36.487	73.025	23.813	25880	25820
1.3750	3.3750	1.1875			1.4365	2.8750	.9375		
34.925	88.500	39.687	4368	4320	36.487	76.200	23.775	2780	2720
1.3750	3.4843	1.5625			1.4365	3.0000	.9360		
34.925	90.000	30.958	449	429XS	36.487	80.167	29.370	3378	3320
1.3750	3.5433	1.2188			1.4365	3.1562	1.1563		
34.925	100.040	36.449	3751	3735	36.512	66.675	15.875	19143	19262
1.3750	3.9386	1.4350			1.4375	2.6250	.6250		
34.976	66.675	15.875	19138	19262	36.512	69.012	19.050	13682	13620
1.3770	2.6250	.6250			1.4375	2.7170	.7500		
34.976	69.012	19.050	14139	14272	36.512	72.000	19.000	16143	16282
1.3770	2.7170	.7500			1.4375	2.8346	.7480		
34.976	76.200	20.637	28138	28300	36.512	76.200	29.369	HM89448	HM89410
1.3770	3.0000	.8125			1.4375	3.0000	1.1563		
34.976	76.200	23.775	2775	2720	36.512	76.200	29.370	31597	31520
1.3770	3.0000	.9360			1.4375	3.0000	1.1563		
34.988	59.131	15.875	L68149A	L68110	36.512	79.375	29.370	3479	3420
1.3775	2.3280	.6250			1.4375	3.1250	1.1563		
34.988	61.973	16.702	LM78349A	LM78310A	36.512	79.375	29.370	HM89249	HM89210
1.3775	2.4399	.6576			1.4375	3.1250	1.1563		
34.988	66.675	20.638	M38547	M38510	36.512	80.167	25.400	26877	26820
1.3775	2.6250	.8125			1.4375	3.1562	1.0000		
35.000	62.000	18.000	X32007X	Y32007X	36.512	80.167	37.307	3353	3320
1.3780	2.4409	.7087			1.4375	3.1562	1.4688		
35.000	72.000	18.250	X30207M	Y30207M	36.512	81.973	23.876	25570	25518
1.3780	2.8346	.7185			1.4375	3.2273	.9400		
35.000	72.000	24.250	X32207M	Y32207M	36.512	85.725	30.163	3878	3820
1.3780	2.8346	.9547			1.4375	3.3750	1.1875		
35.000	72.000	28.000	X33207	Y33207	36.512	88.500	25.400	44143	44348
1.3780	2.8346	1.1024			1.4375	3.4843	1.0000		
35.000	80.000	22.750	X31307	Y31307	36.512	90.043	50.800	4356	4328
1.3780	3.1496	.8957			1.4375	3.5450	2.0000		
35.000	80.000	22.750	X30307M	Y30307M	36.512	93.662	31.750	46143	46368
1.3780	3.1496	.8957			1.4375	3.6875	1.2500		
35.000	80.000	32.750	X32307	Y32307	38.000	66.675	15.875	19149X	19262
1.3780	3.1496	1.2894			1.4961	2.6250	.6250		
35.000	66.675	15.875	19138X	19262	38.100	63.500	12.700	13889	13830
1.3780	2.6250	.6250			1.5000	2.5000	.5000		
35.000	69.012	19.050	14139X	14272	38.100	65.088	18.034	LM29749	LM29710
1.3780	2.7170	.7500			1.5000	2.5625	.7100		
35.000	72.000	17.000	259	253	38.100	66.675	15.875	19150	19262
1.3780	2.8346	.6693			1.5000	2.6250	.6250		
35.000	73.025	26.988	23691	2362	38.100	69.012	19.050	13685	13620
1.3780	2.8750	1.0625			1.5000	2.7170	.7500		
35.000	76.200	20.637	28138X	28300	38.100	72.000	19.000	16150	16282
1.3780	3.0000	.8125			1.5000	2.8346	.7480		
35.000	79.375	29.370	3480	3420	38.100	76.200	20.637	28150	28300
1.3780	3.1250	1.1563			1.5000	3.0000	.8125		

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The Bearing Dimension Catalog is not to be used as a design manual.  
The cone bore section does not include all available parts – see series for additional information.

# BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
38.100	76.200	23.775	2776	2720	39.668	107.950	32.557	457	452
1.5000	3.0000	.9360			1.5625	4.2500	1.2818		
38.100	79.375	29.370	3490	3420	39.688	120.650	41.275	620	612
1.5000	3.1250	1.1563			1.5625	4.7500	1.6250		
38.100	80.035	22.225	27879	27821	39.980	76.200	18.009	11157	113000
1.5000	3.1510	.8750			1.5740	3.0000	.7090		
38.100	80.167	25.400	26878	26820	39.980	76.200	19.347	28155	28300
1.5000	3.1562	1.0000			1.5740	3.0000	.7617		
38.100	80.167	26.987	337	3320	39.987	90.975	32.000	HM204043	HM204010
1.5000	3.1562	1.0625			1.5743	3.5817	1.2598		
38.100	80.167	37.307	3362	3320	40.000	76.200	18.009	11157X	11300
1.5000	3.1562	1.4688			1.5748	3.0000	.7090		
38.100	81.973	23.876	25572	25518	40.000	76.200	20.637	28158	28300
1.5000	3.2273	.9400			1.5748	3.0000	.8125		
38.100	82.550	29.370	HM801346	HM801310	40.000	80.167	26.987	344	3320
1.5000	3.2500	1.1563			1.5748	3.1562	1.0625		
38.100	82.550	34.925	415	412	40.000	82.550	34.925	420	412
1.5000	3.2500	1.3750			1.5748	3.2500	1.3750		
38.100	84.138	30.162	3580	3520	40.000	84.138	30.162	3582	3520
1.5000	3.3125	1.1875			1.5748	3.3125	1.1875		
38.100	85.725	30.163	3875	3820	40.000	85.725	30.163	3879	3820
1.5000	3.3750	1.1875			1.5748	3.3750	1.1875		
38.100	88.500	25.400	44150	44348	40.000	88.500	25.400	44157	44348
1.5000	3.4843	1.0000			1.5748	3.4843	1.0000		
38.100	88.500	39.687	4375	4320	40.000	90.000	30.958	442-S	429XS
1.5000	3.4843	1.5625			1.5748	3.5433	1.2188		
38.100	90.000	30.958	440	429XS	40.000	90.119	23.000	350	352
1.5000	3.5433	1.2188			1.5748	3.5480	.9055		
38.100	93.662	31.750	49150	49368	40.000	107.950	32.557	459	452
1.5000	3.6875	1.2500			1.5748	4.2500	1.2818		
38.100	93.662	31.750	46150	46368	40.000	111.125	38.100	543	532
1.5000	3.6875	1.2500			1.5748	4.3750	1.5000		
38.100	95.250	27.783	33880	33821	40.000	68.000	19.000	X32008X	Y32008XZ
1.5000	3.7500	1.0938			1.5748	2.6772	.7480		
38.100	95.250	30.956	53150	53375	40.000	75.000	26.000	X33108	Y33108
1.5000	3.7500	1.2188			1.5748	2.9528	1.0236		
38.100	95.250	30.958	HM903241	HM903210	40.000	80.000	19.750	X30208M	Y30208M
1.5000	3.7500	1.2188			1.5748	3.1496	.7776		
38.100	100.000	34.925	525	520X	40.000	80.000	24.750	X32208M	Y32208M
1.5000	3.9370	1.3750			1.5748	3.1496	.9744		
38.100	107.950	32.557	455A	452	40.000	80.000	32.000	X33208	Y33208
1.5000	4.2500	1.2818			1.5748	3.1496	1.2598		
38.100	111.125	38.100	542	532	40.000	90.000	25.250	X31308	Y31308
1.5000	4.3750	1.5000			1.5748	3.5433	.9941		
38.481	63.500	12.700	13890	13830	40.000	90.000	35.250	X32308B	Y32308B
1.5150	2.5000	.5000			1.5748	3.5433	1.3878		
38.496	66.675	15.875	19153X	19262	40.483	80.167	28.257	337X	3320
1.5156	2.6250	.6250			1.5938	3.1562	1.1125		
39.688	73.025	16.667	18587	18520	40.483	82.550	29.370	HM801349	HM801310
1.5625	2.8750	.6562			1.5938	3.2500	1.1563		
39.688	73.025	25.654	M201047	M201011	41.275	67.975	17.500	LM300848	LM300811
1.5625	2.8750	1.0100			1.6250	2.6762	.6890		
39.688	76.200	23.775	2789	2720	41.275	73.025	16.667	18590	18520
1.5625	3.0000	.9360			1.6250	2.8750	.6562		
39.688	79.375	31.354	17883	17830	41.275	73.431	19.558	LM501349	LM501310
1.5625	3.1250	1.2344			1.6250	2.8910	.7700		
39.688	80.167	25.400	26880	26820	41.275	76.200	18.009	11162	11300
1.5625	3.1562	1.0000			1.6250	3.0000	.7090		
39.688	80.167	29.370	3382	3320	41.275	76.200	22.225	24780	24720
1.5625	3.1562	1.1563			1.6250	3.0000	.8750		
39.688	82.550	34.925	422	412	41.275	80.167	25.400	26882	26820
1.5625	3.2500	1.3750			1.6250	3.1562	1.0000		
39.688	88.500	25.400	44156	44348	41.275	80.167	26.987	336	3320
1.5625	3.4843	1.0000			1.6250	3.1562	1.0625		
39.688	88.500	39.687	4367	4320	41.275	80.167	29.370	3383	3320
1.5625	3.4843	1.5625			1.6250	3.1562	1.1563		
39.688	100.000	28.173	3774	373	41.275	82.550	26.195	22778	22720
1.5625	3.9370	1.1092			1.6250	3.2500	1.0313		
39.688	100.000	34.925	525A	520X	41.275	82.550	26.543	M802047	M802011
39.688	107.950	32.557			1.6250	3.2500	1.0450		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
41.275	82.550	34.925	419	412	42.987	74.988	19.367	16986	16929
1.6250	3.2500	1.3750			1.6924	2.9523	.7625		
41.275	84.138	30.162	3576	3520	42.987	79.375	20.638	17886	17830
1.6250	3.3125	1.1875			1.6924	3.1250	.8125		
41.275	85.725	30.163	3877	3820	43.000	80.167	26.987	342X	3320
1.6250	3.3750	1.1875			1.6929	3.1562	1.0625		
41.275	88.500	25.400	44162	44348	44.450	71.438	12.700	LL103049	LL103010
1.6250	3.4843	1.0000			1.7500	2.8125	.5000		
41.275	88.500	39.687	4388	4320	44.450	73.025	18.258	L102849	L102810
1.6250	3.4843	1.5625			1.7500	2.8750	.7188		
41.275	88.900	30.162	HM803145	HM803110	44.450	76.992	17.464	12175	12303
1.6250	3.5000	1.1875			1.7500	3.0312	.6876		
41.275	90.000	20.000	365A	362	44.450	79.375	17.462	18685	18620
1.6250	3.5433	.7874			1.7500	3.1250	.6875		
41.275	90.000	30.958	439	429XS	44.450	79.375	31.354	17884	17830
1.6250	3.5433	1.2188			1.7500	3.1250	1.2344		
41.275	92.075	26.195	M903345	M903310	44.450	80.962	19.050	13175	13318
1.6250	3.6250	1.0313			1.7500	3.1875	.7500		
41.275	93.662	31.750	49162	49368	44.450	81.973	23.876	25580	25518
1.6250	3.6875	1.2500			1.7500	3.2273	.9400		
41.275	93.662	31.750	46162	46368	44.450	82.931	22.225	35175	35326
1.6250	3.6875	1.2500			1.7500	3.2650	.8750		
41.275	95.250	30.163	HM804840	HM804810	44.450	84.138	30.162	3578	3520
1.6250	3.7500	1.1875			1.7500	3.3125	1.1875		
41.275	95.250	30.956	53162	53375	44.450	85.000	25.400	2975	2924
1.6250	3.7500	1.2188			1.7500	3.3465	1.0000		
41.275	95.250	30.958	HM903244	HM903210	44.450	88.500	46.037	4364	4320
1.6250	3.7500	1.2188			1.7500	3.4843	1.8125		
41.275	100.000	34.925	526	520X	44.450	88.900	30.162	HM803149	HM803110
1.6250	3.9370	1.3750			1.7500	3.5000	1.1875		
41.275	100.040	36.449	3753	3735	44.450	90.000	30.958	435	429XS
1.6250	3.9386	1.4350			1.7500	3.5433	1.2188		
41.275	104.775	36.512	59162	59412	44.450	90.119	23.000	355	352
1.6250	4.1250	1.4375			1.7500	3.5480	.9055		
41.275	104.775	36.512	HM807035	HM807010	44.450	93.662	31.750	49175	49368
1.6250	4.1250	1.4375			1.7500	3.6875	1.2500		
41.275	107.950	32.557	464	452	44.450	93.662	31.750	46175	46368
1.6250	4.2500	1.2818			1.7500	3.6875	1.2500		
41.275	111.125	38.100	541	532	44.450	95.250	27.783	33885	33821
1.6250	4.3750	1.5000			1.7500	3.7500	1.0938		
42.000	76.200	18.009	11165X	11300	44.450	95.250	30.163	HM804842	HM804810
1.6535	3.0000	.7090			1.7500	3.7500	1.1875		
42.070	88.500	39.687	4395	4320	44.450	95.250	30.958	HM903247	HM903210
1.6563	3.4843	1.5625			1.7500	3.7500	1.2188		
42.850	107.950	32.557	461	452	44.450	98.425	21.000	386AS	382
1.6870	4.2500	1.2818			1.7500	3.8750	.8268		
42.862	76.992	17.464	12168	12303	44.450	100.000	34.523	3760	373
1.6875	3.0312	.6876			1.7500	3.9370	1.3592		
42.862	81.973	23.876	25576	25518	44.450	100.000	34.925	527	520X
1.6875	3.2273	.9400			1.7500	3.9370	1.3750		
42.862	82.550	19.842	22168	22325	44.450	101.200	43.657	5356	5320
1.6875	3.2500	.7812			1.7500	3.9843	1.7188		
42.862	82.550	26.195	22780	22720	44.450	101.600	31.750	49576	49520
1.6875	3.2500	1.0313			1.7500	4.0000	1.2500		
42.862	84.138	30.162	3579	3520	44.450	104.775	30.162	45280	45220
1.6875	3.3125	1.1875			1.7500	4.1250	1.1875		
42.862	84.988	19.000	29168	29334	44.450	104.775	36.512	59175	59412
1.6875	3.3460	.7480			1.7500	4.1250	1.4375		
42.862	85.000	25.400	2973	2924	44.450	104.775	36.512	HM807040	HM807010
1.6875	3.3465	1.0000			1.7500	4.1250	1.4375		
42.862	114.300	44.450	65383	65320	44.450	107.950	32.557	458	452
1.6875	4.5000	1.7500			1.7500	4.2500	1.2818		
42.875	80.167	25.400	26884	26820	44.450	109.985	29.251	55175	55434
1.6880	3.1562	1.0000			1.7500	4.3301	1.1516		
42.875	80.167	26.987	342-S	3320	44.450	109.985	29.251	55175C	55434
1.6880	3.1562	1.0625			1.7500	4.3301	1.1516		
42.875	81.973	23.876	25577	25518	44.450	111.125	30.163	HM907635	HM907614
1.6880	3.2273	.9400			1.7500	4.3750	1.1875		
42.987	67.975	17.502	LM300849C	LM300811	44.450	111.125	38.100	535	532
1.6924	2.6762	.6891			1.7500	4.3750	1.5000		

The Bearing Dimension Catalog is not to be used as a design manual.  
The cone bore section does not include all available parts – see series for additional information.

## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
44.450	114.300	44.450	65384	65320	46.038	79.375	17.462	18690	18620
1.7500	4.5000	1.7500			1.8125	3.1250	.6875		
44.450	120.650	41.275	615	612	46.038	80.962	19.050	13181	13318
1.7500	4.7500	1.6250			1.8125	3.1875	.7500		
44.450	127.000	50.800	6277	6220	46.038	81.973	23.876	25592	25518
1.7500	5.0000	2.0000			1.8125	3.2273	.9400		
44.869	89.980	24.750	28576	28520	46.038	85.000	17.462	18780	18720
1.7665	3.5425	.9744			1.8125	3.3465	.6875		
44.945	90.000	30.958	450	429XS	46.038	85.000	25.400	2984	2924
1.7695	3.5433	1.2188			1.8125	3.3465	1.0000		
44.983	81.973	23.876	25584	25518	46.038	90.000	30.958	436	429XS
1.7710	3.2273	.9400			1.8125	3.5433	1.2188		
44.983	84.988	19.000	29177	29334	46.038	90.119	23.000	359A	352
1.7710	3.3460	.7480			1.8125	3.5480	.9055		
44.983	100.000	28.173	3776	373	46.038	100.000	28.173	3777	373
1.7710	3.9370	1.1092			1.8125	3.9370	1.1092		
44.983	100.000	34.925	527-S	520X	47.500	100.000	27.250	XFA30309M	Y30309M
1.7710	3.9370	1.3750			1.8701	3.9370	1.0728		
44.988	81.973	23.876	25584A	25518	47.625	88.900	25.400	M804048	M804010
1.7712	3.2273	.9400			1.8750	3.5000	1.0000		
44.988	90.000	20.000	367X	362	47.625	90.000	20.000	369A	362
1.7712	3.5433	.7874			1.8750	3.5433	.7874		
44.988	95.250	30.958	HM903248	HM903210	47.625	95.250	30.163	HM804846	HM804810
1.7712	3.7500	1.2188			1.8750	3.7500	1.1875		
44.988	104.986	32.512	HM905843	HM905810	47.625	98.425	21.000	386A	382
1.7712	4.1333	1.2800			1.8750	3.8750	.8268		
44.988	110.000	27.000	396A	393	47.625	100.000	28.173	3778	373
1.7712	4.3307	1.0630			1.8750	3.9370	1.1092		
44.991	100.000	38.545	V527A	520X	47.625	100.000	34.925	528	520X
1.7713	3.9370	1.5175			1.8750	3.9370	1.3750		
45.000	85.000	20.750	X30209M	Y30209M	47.625	101.200	43.657	5358	5320
1.7717	3.3465	.8169			1.8750	3.9843	1.7188		
45.000	85.000	24.750	X32209M	Y32209M	47.625	101.600	31.750	49580	49520
1.7717	3.3465	.9744			1.8750	4.0000	1.2500		
45.000	85.000	32.000	X33209	Y33209	47.625	104.775	30.162	45282	45220
1.7717	3.3465	1.2598			1.8750	4.1250	1.1875		
45.000	100.000	27.250	X31309M	Y31309M	47.625	104.775	36.512	59187	59412
1.7717	3.9370	1.0728			1.8750	4.1250	1.4375		
45.000	100.000	38.250	X32309BM	Y32309BM	47.625	107.950	32.557	463	452
1.7717	3.9370	1.5059			1.8750	4.2500	1.2818		
45.000	90.000	20.000	367	362	47.625	109.985	29.251	55187	55434
1.7717	3.5433	.7874			1.8750	4.3301	1.1516		
45.000	90.000	30.958	435-S	429XS	47.625	109.985	29.251	55187C	55434
1.7717	3.5433	1.2188			1.8750	4.3301	1.1516		
45.000	90.119	23.000	358	352	47.625	111.125	30.163	HM907639	HM907614
1.7717	3.5480	.9055			1.8750	4.3750	1.1875		
45.000	100.000	25.000	376	372	47.625	111.125	38.100	536	532
1.7717	3.9370	.9842			1.8750	4.3750	1.5000		
45.000	101.200	39.687	4559	4520	47.625	117.475	33.338	66187	66461
1.7717	3.9843	1.5625			1.8750	4.6250	1.3125		
45.000	107.950	32.557	458-S	452	47.625	120.650	41.275	617	612
1.7717	4.2500	1.2818			1.8750	4.7500	1.6250		
45.230	79.375	20.638	17887	17830	47.625	123.825	36.512	72187C	72487
1.7807	3.1250	.8125			1.8750	4.8750	1.4375		
45.237	84.138	30.162	3586	3520	47.625	123.825	36.512	72187	72487
1.7810	3.3125	1.1875			1.8750	4.8750	1.4375		
45.242	73.431	19.558	LM102949	LM102910	48.412	95.250	30.163	HM804848	HM804810
1.7812	2.8910	.7700			1.9060	3.7500	1.1875		
45.242	77.788	19.842	LM603049	LM603011	48.412	100.000	28.173	3781A	373
1.7812	3.0625	.7812			1.9060	3.9370	1.1092		
45.618	81.973	23.876	25590	25518	49.212	90.000	20.000	365-S	362
1.7960	3.2273	.9400			1.9375	3.5433	.7874		
45.771	90.000	30.958	437	429XS	49.212	100.000	28.173	3781	373
1.8020	3.5433	1.2188			1.9375	3.9370	1.1092		
45.987	74.976	18.000	LM503349	LM503310	49.212	101.200	43.657	5395	5320
1.8105	2.9518	.7087			1.9375	3.9843	1.7188		
45.987	90.975	32.000	HM204049	HM204010	49.212	104.775	36.512	HM807044	HM807010
1.8105	3.5817	1.2598			1.9375	4.1250	1.4375		
46.038	77.788	12.700	LL205442	LL205410	49.212	111.125	38.100	545	532
1.8125	3.0625	.5000			1.9375	4.3750	1.5000		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
49.212	114.300	44.450	HH506348	HH506310	50.800	101.600	31.750	49585	49520
1.9375	4.5000	1.7500			2.0000	4.0000	1.2500		
49.212	114.300	44.450	65390	65320	50.800	104.775	30.162	45284	45220
1.9375	4.5000	1.7500			2.0000	4.1250	1.1875		
49.212	120.251	44.450	5562	5520	50.800	104.775	36.512	59200	59412
1.9375	4.7343	1.7500			2.0000	4.1250	1.4375		
49.974	109.985	29.251	55196	55434	50.800	104.775	36.512	HM807046	HM807010
1.9675	4.3301	1.1516			2.0000	4.1250	1.4375		
49.982	111.125	38.100	546	532	50.800	107.950	32.557	455	452
1.9678	4.3750	1.5000			2.0000	4.2500	1.2818		
49.987	80.962	18.257	L305648	L305610	50.800	109.985	29.251	55200	55434
1.9680	3.1875	.7188			2.0000	4.3301	1.1516		
49.987	89.980	24.750	28579	28520	50.800	109.985	29.251	55200C	55434
1.9680	3.5425	.9744			2.0000	4.3301	1.1516		
49.987	100.000	25.000	378A	372	50.800	110.000	27.000	398	393
1.9680	3.9370	.9842			2.0000	4.3307	1.0630		
49.987	109.985	29.251	55194	55434	50.800	111.125	30.163	HM907643	HM907614
1.9680	4.3301	1.1516			2.0000	4.3750	1.1875		
49.987	114.300	44.450	HH506349	HH506310	50.800	111.125	38.100	537	532
1.9680	4.5000	1.7500			2.0000	4.3750	1.5000		
50.000	90.000	20.000	365	362	50.800	112.712	30.162	3975	3919RB
1.9685	3.5433	.7874			2.0000	4.4375	1.1875		
50.000	95.250	27.783	33887X	33821	50.800	112.712	30.163	39573	39520
1.9685	3.7500	1.0938			2.0000	4.4375	1.1875		
50.000	100.000	34.925	529A	520X	50.800	114.300	44.450	65395	65320
1.9685	3.9370	1.3750			2.0000	4.5000	1.7500		
50.000	101.200	42.895	5360	5320	50.800	117.475	33.338	66200	66461
1.9685	3.9843	1.6888			2.0000	4.6250	1.3125		
50.000	107.950	32.557	465	452	50.800	120.251	44.450	5565	5520
1.9685	4.2500	1.2818			2.0000	4.7343	1.7500		
50.000	110.000	27.000	396	393	50.800	120.650	41.275	619	612
1.9685	4.3307	1.0630			2.0000	4.7500	1.6250		
50.000	80.000	24.000	X33010	Y33010	50.800	123.825	36.512	72200C	72487
1.9685	3.1496	.9449			2.0000	4.8750	1.4375		
50.000	85.000	26.000	X33110	Y33110	50.800	123.825	36.512	72200	72487
1.9685	3.3465	1.0236			2.0000	4.8750	1.4375		
50.000	90.000	24.750	X32210M	Y32210M	50.800	123.825	38.100	555	552
1.9685	3.5433	.9744			2.0000	4.8750	1.5000		
50.000	90.000	32.000	X33210	Y33210	50.800	127.000	36.512	HM813836	HM813810
1.9685	3.5433	1.2598			2.0000	5.0000	1.4375		
50.000	110.000	29.250	X31310M	Y31310M	50.800	127.000	44.450	65200	65500
1.9685	4.3307	1.1516			2.0000	5.0000	1.7500		
50.000	110.000	42.250	X32310B	Y32310B	50.800	127.000	50.800	6279	6220
1.9685	4.3307	1.6634			2.0000	5.0000	2.0000		
50.800	77.788	12.700	LL205449	LL205410	50.815	100.000	35.000	XGA33211	Y33211
2.0000	3.0625	.5000			2.0006	3.9370	1.3780		
50.800	80.962	18.257	L305649	L305610	51.592	90.000	20.000	368-S	362
2.0000	3.1875	.7188			2.0312	3.5433	.7874		
50.800	85.000	17.462	18790	18720	51.592	100.000	25.000	377-S	372
2.0000	3.3465	.6875			2.0312	3.9370	.9842		
50.800	85.000	24.500	18200	18335E	52.000	85.000	24.500	18204X	18335E
2.0000	3.3465	.9646			2.0472	3.3465	.9646		
50.800	89.980	24.750	28580	28520	52.000	90.000	21.750	XGA30210	Y30210
2.0000	3.5425	.9744			2.0472	3.5433	.8563		
50.800	90.000	20.000	368	362	52.388	89.980	24.750	28584	28520
2.0000	3.5433	.7874			2.0625	3.5425	.9744		
50.800	95.250	27.783	33889	33821	52.388	95.250	27.783	33890	33821
2.0000	3.7500	1.0938			2.0625	3.7500	1.0938		
50.800	96.838	24.608	28678	28621	52.388	100.000	25.000	377	372
2.0000	3.8125	.9688			2.0625	3.9370	.9842		
50.800	98.425	21.000	385A	382	52.388	100.000	28.173	3767	373
2.0000	3.8750	.8268			2.0625	3.9370	1.1092		
50.800	100.000	25.000	375	372	52.388	107.950	32.557	468	452
2.0000	3.9370	.9842			2.0625	4.2500	1.2818		
50.800	100.000	34.523	3762	373	52.388	109.985	29.251	55206	55434
2.0000	3.9370	1.3592			2.0625	4.3301	1.1516		
50.800	100.000	34.925	529	520X	52.388	109.985	29.251	55206C	55434
2.0000	3.9370	1.3750			2.0625	4.3301	1.1516		
50.800	101.200	39.687	4580	4520	52.388	110.000	36.512	3959	3927X
2.0000	3.9843	1.5625			2.0625	4.3307	1.4375		

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## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
52.388 2.0625	111.125 4.3750	38.100 1.5000	540	532	55.000 2.1654	100.000 3.9370	35.000 1.3780	X33211M	Y33211M
53.975 2.1250	87.312 3.4375	18.258 .7188	L507945	L507910	55.000 2.1654	120.000 4.7244	31.500 1.2402	X30311	Y30311
53.975 2.1250	88.900 3.5000	19.050 .7500	LM806649	LM806610	55.000 2.1654	120.000 4.7244	31.500 1.2402	X31311M	Y31311M
53.975 2.1250	88.900 3.5000	20.241 .7969	LM806349C	LM806310	55.000 2.1654	120.000 4.7244	45.500 1.7913	X32311BM	Y32311BM
53.975 2.1250	95.250 3.7500	27.783 1.0938	33895	33821	55.000 2.1654	98.425 3.8750	21.000 .8268	385	382
53.975 2.1250	98.425 3.8750	21.000 .8268	389A	382	55.000 2.1654	120.000 4.7244	29.794 1.1730	475	472
53.975 2.1250	104.775 4.1250	30.162 1.1875	45287	45220	55.000 2.1654	120.650 4.7500	41.275 1.6250	622X	612
53.975 2.1250	104.775 4.1250	36.512 1.4375	HM807049	HM807010	55.000 2.1654	123.825 4.8750	38.100 1.5000	557	552
53.975 2.1250	107.950 4.2500	32.557 1.2818	456	452	55.006 2.1656	120.650 4.7500	41.275 1.6250	622A	612
53.975 2.1250	109.985 4.3301	29.251 1.1516	55212C	55434	55.474 2.1840	98.425 3.8750	21.000 .8268	386	382
53.975 2.1250	111.125 4.3750	38.100 1.5000	539	532	55.562 2.1875	96.838 3.8125	24.608 .9688	28680	28621
53.975 2.1250	112.712 4.4375	30.163 1.1875	39578	39520	55.562 2.1875	107.950 4.2500	32.557 1.2818	466-S	452
53.975 2.1250	117.475 4.6250	33.338 1.3125	66212	66461	55.562 2.1875	120.251 4.7343	44.450 1.7500	5566	5520
53.975 2.1250	120.251 4.7343	44.450 1.7500	5577	5520	55.562 2.1875	123.825 4.8750	36.512 1.4375	72218C	72487
53.975 2.1250	120.650 4.7500	41.275 1.6250	621	612	55.562 2.1875	123.825 4.8750	36.512 1.4375	72218	72487
53.975 2.1250	122.238 4.8125	33.338 1.3125	66584	66520	55.562 2.1875	127.000 5.0000	36.512 1.4375	HM813840	HM813810
53.975 2.1250	123.825 4.8750	36.512 1.4375	72212C	72487	55.575 2.1880	98.425 3.8750	21.000 .8268	389	382
53.975 2.1250	123.825 4.8750	36.512 1.4375	72212	72487	55.753 2.1950	122.238 4.8125	33.338 1.3125	66583	66520
53.975 2.1250	123.825 4.8750	38.100 1.5000	557-S	552	57.150 2.2500	87.312 3.4375	18.258 .7188	L507949	L507910
53.975 2.1250	127.000 5.0000	44.450 1.7500	65212	65500	57.150 2.2500	96.838 3.8125	24.608 .9688	28682	28621
53.975 2.1250	127.000 5.0000	50.800 2.0000	6280	6220	57.150 2.2500	98.425 3.8750	21.000 .8268	387	382
53.975 2.1250	130.175 5.1250	36.513 1.4375	HM911242	HM911210	57.150 2.2500	104.775 4.1250	30.162 1.1875	45289	45220
53.975 2.1250	136.525 5.3750	36.513 1.4375	78214	78537	57.150 2.2500	107.950 4.2500	32.557 1.2818	462	452
53.975 2.1250	136.525 5.3750	36.513 1.4375	78214C	78537	57.150 2.2500	110.000 4.3307	27.000 1.0630	390	393
53.975 2.1250	136.525 5.3750	41.275 1.6250	636	632	57.150 2.2500	112.712 4.4375	25.400 1.0000	29665	29620
54.488 2.1452	104.775 4.1250	36.512 1.4375	HM807048	HM807010	57.150 2.2500	112.712 4.4375	30.163 1.1875	39580	39520
54.813 2.1580	135.755 5.3447	53.975 2.1250	6380	6320	57.150 2.2500	112.712 4.4375	36.512 1.4375	3958	3919RB
54.988 2.1649	107.950 4.2500	32.557 1.2818	466	452	57.150 2.2500	117.475 4.6250	30.162 1.1875	33225	33461
54.988 2.1649	111.125 4.3750	38.100 1.5000	538	532	57.150 2.2500	117.475 4.6250	33.338 1.3125	66225	66461
54.988 2.1649	135.755 5.3447	53.975 2.1250	6381	6320	57.150 2.2500	120.650 4.7500	41.275 1.6250	623	612
54.996 2.1652	99.979 3.9362	24.605 .9687	28970	28919	57.150 2.2500	122.238 4.8125	33.338 1.3125	66587	66520
55.000 2.1654	90.000 3.5433	23.000 .9055	X32011X	Y32011X	57.150 2.2500	123.825 4.8750	36.512 1.4375	72225C	72487
55.000 2.1654	90.000 3.5433	27.000 1.0630	X33011	Y33011	57.150 2.2500	123.825 4.8750	36.512 1.4375	72225	72487
55.000 2.1654	95.000 3.7402	30.000 1.1811	X33111	Y33111	57.150 2.2500	123.825 4.8750	38.100 1.5000	555-S	552
55.000 2.1654	100.000 3.9370	22.750 .8957	X30211M	Y30211M	57.150 2.2500	127.000 5.0000	44.450 1.7500	65225	65500

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
57.150	135.755	53.975	6375	6320	60.000	100.000	30.000	X33112	Y33112
2.2500	5.3447	2.1250			2.3622	3.9370	1.1811		
57.150	136.525	36.513	78225	78537	60.000	110.000	23.750	X30212M	Y30212M
2.2500	5.3750	1.4375			2.3622	4.3307	.9350		
57.150	136.525	36.513	78225C	78537	60.000	110.000	29.750	X32212M	Y32212M
2.2500	5.3750	1.4375			2.3622	4.3307	1.1713		
57.150	136.525	41.275	635	632	60.000	130.000	33.500	X30312M	Y30312M
2.2500	5.3750	1.6250			2.3622	5.1181	1.3189		
57.150	149.225	53.975	6455	6420	60.000	130.000	33.500	X31312M	Y31312M
2.2500	5.8750	2.1250			2.3622	5.1181	1.3189		
57.150	152.400	53.975	HH814540	HH814510	60.000	130.000	48.500	X32312B	Y32312B
2.2500	6.0000	2.1250			2.3622	5.1181	1.9094		
57.531	98.425	21.000	388A	382	60.325	99.979	24.605	28985	28919
2.2650	3.8750	.8268			2.3750	3.9362	.9687		
57.981	98.425	21.000	388XS	382	60.325	103.213	17.247	L812144	L812111
2.2827	3.8750	.8268			2.3750	4.0635	.6790		
58.738	112.712	30.162	3981	3919RB	60.325	112.712	36.512	3960	3919RB
2.3125	4.4375	1.1875			2.3750	4.4375	1.4375		
58.738	127.000	44.450	65231	65500	60.325	120.251	44.450	5582	5520
2.3125	5.0000	1.7500			2.3750	4.7343	1.7500		
59.530	112.712	30.162	3978	3919RB	60.325	122.238	38.100	HM212044	HM212010
2.3437	4.4375	1.1875			2.3750	4.8125	1.5000		
59.880	127.000	44.450	65235	65500	60.325	123.825	38.100	557A	552
2.3575	5.0000	1.7500			2.3750	4.8750	1.5000		
59.931	150.089	44.450	745	742	60.325	127.000	36.512	HM813841	HM813810
2.3595	5.9090	1.7500			2.3750	5.0000	1.4375		
59.972	122.238	33.338	66589	66520	60.325	127.000	44.450	65237	65500
2.3611	4.8125	1.3125			2.3750	5.0000	1.7500		
59.977	99.979	24.605	28980	28919	60.325	130.175	36.513	HM911245	HM911210
2.3613	3.9362	.9687			2.3750	5.1250	1.4375		
59.977	122.238	33.338	66586	66520	60.325	135.755	53.975	6376	6320
2.3613	4.8125	1.3125			2.3750	5.3447	2.1250		
59.987	104.775	21.433	39236	39412	60.325	136.525	36.513	78238	78537
2.3617	4.1250	.8438			2.3750	5.3750	1.4375		
59.987	112.712	30.162	3977X	3919RB	60.325	136.525	36.513	78238C	78537
2.3617	4.4375	1.1875			2.3750	5.3750	1.4375		
59.987	123.825	38.100	558-S	552	60.325	136.525	41.275	637	632
2.3617	4.8750	1.5000			2.3750	5.3750	1.6250		
59.987	127.000	36.512	HM813839	HM813810	60.325	139.700	46.038	H715332	H715310
2.3617	5.0000	1.4375			2.3750	5.5000	1.8125		
59.987	130.175	34.100	HM911244	HM911210	60.325	152.400	52.705	HH814542	HH814510
2.3617	5.1250	1.3425			2.3750	6.0000	2.0750		
59.987	135.755	53.975	6391	6320	60.325	161.925	47.625	9275	9220
2.3617	5.3447	2.1250			2.3750	6.3750	1.8750		
59.987	146.050	41.275	H913840	H913810	61.912	110.000	27.000	392	393
2.3617	5.7500	1.6250			2.4375	4.3307	1.0630		
60.000	107.950	25.400	29580	29520	61.912	123.825	38.100	554	552
2.3622	4.2500	1.0000			2.4375	4.8750	1.5000		
60.000	110.000	27.000	397	393	61.912	127.000	36.512	HM813843	HM813810
2.3622	4.3307	1.0630			2.4375	5.0000	1.4375		
60.000	112.712	30.162	3977	3919RB	61.912	130.175	36.513	HM911249	HM911210
2.3622	4.4375	1.1875			2.4375	5.1250	1.4375		
60.000	112.712	30.163	39582A	39520	61.912	139.700	46.038	H715334	H715310
2.3622	4.4375	1.1875			2.4375	5.5000	1.8125		
60.000	120.000	29.794	476	472	61.912	146.050	41.275	H913842	H913810
2.3622	4.7244	1.1730			2.4375	5.7500	1.6250		
60.000	120.251	44.998	5569	5520	61.912	158.750	55.562	9178	9120
2.3622	4.7343	1.7716			2.4375	6.2500	2.1875		
60.000	122.238	33.338	66585	66520	61.976	99.979	23.813	28990	28919
2.3622	4.8125	1.3125			2.4400	3.9362	.9375		
60.000	123.825	38.100	558X	552	62.738	99.979	24.605	28995	28919
2.3622	4.8750	1.5000			2.4700	3.9362	.9687		
60.000	135.755	53.975	6361	6320	63.487	94.976	17.000	L910349	L910310
2.3622	5.3447	2.1250			2.4995	3.7392	.6693		
60.000	150.089	44.450	746	742	63.500	92.075	13.495	LL510749	LL510710
2.3622	5.9090	1.7500			2.5000	3.6250	.5313		
60.000	95.000	23.000	X32012X	Y32012X	63.500	94.458	19.050	L610549	L610510
2.3622	3.7402	.9055			2.5000	3.7188	.7500		
60.000	95.000	27.000	X33012	Y33012	63.500	101.600	25.400	LM110848	LM110811
2.3622	3.7402	1.0630			2.5000	4.0000	1.0000		

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# BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
63.500	104.775	21.433	39250	39412	65.000	100.000	27.000	X33013	Y33013
2.5000	4.1250	.8438			2.5591	3.9370	1.0630		
63.500	107.950	25.398	M111048	M111012	65.000	110.000	34.000	X33113	Y33113
2.5000	4.2500	.9999			2.5591	4.3307	1.3386		
63.500	107.950	25.400	29585	29520	65.000	120.000	24.750	X30213M	Y30213M
2.5000	4.2500	1.0000			2.5591	4.7244	.9744		
63.500	110.000	27.000	390A	393	65.000	120.000	32.750	X32213	YAA32213
2.5000	4.3307	1.0630			2.5591	4.7244	1.2894		
63.500	112.712	25.400	29670	29620	65.000	120.000	41.000	X33213M	Y33213M
2.5000	4.4375	1.0000			2.5591	4.7244	1.6142		
63.500	112.712	30.163	39585	39520	65.000	140.000	36.000	X30313	Y30313
2.5000	4.4375	1.1875			2.5591	5.5118	1.4173		
63.500	112.712	36.512	3955	3919RB	65.000	140.000	36.000	X31313M	Y31313M
2.5000	4.4375	1.4375			2.5591	5.5118	1.4173		
63.500	117.475	30.162	33251	33461	65.000	140.000	51.000	X32313M	Y32313M
2.5000	4.6250	1.1875			2.5591	5.5118	2.0079		
63.500	120.000	29.794	477	472	65.000	110.000	27.000	399	393
2.5000	4.7244	1.1730			2.5591	4.3307	1.0630		
63.500	120.251	52.387	5552	5520	65.000	120.000	29.794	478	472
2.5000	4.7343	2.0625			2.5591	4.7244	1.1730		
63.500	122.238	38.100	HM212046	HM212010	65.000	135.755	53.975	6385-S	6320
2.5000	4.8125	1.5000			2.5591	5.3447	2.1250		
63.500	123.825	38.100	559	552	65.088	135.755	63.500	6377	6320
2.5000	4.8750	1.5000			2.5625	5.3447	2.5000		
63.500	127.000	36.512	HM813842	HM813810	65.088	139.700	46.038	H715340	H715310
2.5000	5.0000	1.4375			2.5625	5.5000	1.8125		
63.500	130.048	36.512	565	562	65.883	120.251	44.450	5595	5520
2.5000	5.1200	1.4375			2.5938	4.7343	1.7500		
63.500	135.755	53.975	6382	6320	65.987	123.975	41.500	H212749	H212710
2.5000	5.3447	2.1250			2.5979	4.8809	1.6339		
63.500	136.525	36.513	78250	78537	66.650	112.712	30.163	39590A	39520
2.5000	5.3750	1.4375			2.6240	4.4375	1.1875		
63.500	136.525	36.513	78248C	78537	66.675	103.213	17.247	L812147	L812111
2.5000	5.3750	1.4375			2.6250	4.0635	.6790		
63.500	136.525	41.275	H414235	H414210	66.675	107.950	25.400	29590	29520
2.5000	5.3750	1.6250			2.6250	4.2500	1.0000		
63.500	136.525	41.275	639	632	66.675	110.000	27.000	395A	393
2.5000	5.3750	1.6250			2.6250	4.3307	1.0630		
63.500	139.700	46.038	H715336	H715310	66.675	112.712	30.162	3984	3919RB
2.5000	5.5000	1.8125			2.6250	4.4375	1.1875		
63.500	149.225	53.975	6475	6420	66.675	112.712	30.163	39589	39520
2.5000	5.8750	2.1250			2.6250	4.4375	1.1875		
63.500	150.089	44.450	745-S	742	66.675	117.475	30.162	33261	33461
2.5000	5.9090	1.7500			2.6250	4.6250	1.1875		
63.500	177.800	57.150	HH914447	HH914412	66.675	120.000	29.794	478-S	472
2.5000	7.0000	2.2500			2.6250	4.7244	1.1730		
64.000	104.775	21.433	39252X	39412	66.675	122.238	38.100	HM212049	HM212010
2.5197	4.1250	.8438			2.6250	4.8125	1.5000		
64.960	149.225	53.975	6464	6420	66.675	123.825	38.100	560	552
2.5575	5.8750	2.1250			2.6250	4.8750	1.5000		
64.960	150.089	44.450	747-S	742	66.675	127.000	36.512	HM813844	HM813810
2.5575	5.9090	1.7500			2.6250	5.0000	1.4375		
64.960	152.400	41.275	656	652	66.675	133.350	30.163	495AA	492A
2.5575	6.0000	1.6250			2.6250	5.2500	1.1875		
64.963	130.048	36.512	569	562	66.675	135.755	53.975	6386	6320
2.5576	5.1200	1.4375			2.6250	5.3447	2.1250		
64.973	110.000	27.000	396-S	393	66.675	136.525	41.275	H414242	H414210
2.5580	4.3307	1.0630			2.6250	5.3750	1.6250		
64.973	135.755	53.975	6385	6320	66.675	136.525	41.275	641	632
2.5580	5.3447	2.1250			2.6250	5.3750	1.6250		
64.988	107.950	25.400	29588	29520	66.675	139.700	46.038	H715341	H715310
2.5586	4.2500	1.0000			2.6250	5.5000	1.8125		
64.988	112.712	30.163	39586	39520	66.675	152.400	53.975	HH814547	HH814510
2.5586	4.4375	1.1875			2.6250	6.0000	2.1250		
64.988	120.000	29.794	478XA	472	66.675	177.800	57.150	HH914449	HH914412
2.5586	4.7244	1.1730			2.6250	7.0000	2.2500		
64.988	136.525	36.513	78255X	78537	68.262	110.000	27.000	399A	393
2.5586	5.3750	1.4375			2.6875	4.3307	1.0630		
65.000	100.000	23.000	X32013X	Y32013X	68.262	117.475	30.162	33269	33461
2.5591	3.9370	.9055			2.6875	4.6250	1.1875		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
68.262	120.000	29.794	480	472	70.000	130.048	36.512	570X	562
2.6875	4.7244	1.1730			2.7559	5.1200	1.4375		
68.262	120.251	52.387	5557	5520	70.000	140.000	43.002	HM515737	HM515714
2.6875	4.7343	2.0625			2.7559	5.5118	1.6930		
68.262	123.825	38.100	560-S	552	70.000	149.225	53.975	6459	6420
2.6875	4.8750	1.5000			2.7559	5.8750	2.1250		
68.262	130.048	36.512	570	562	70.000	110.000	25.000	X32014X	Y32014X
2.6875	5.1200	1.4375			2.7559	4.3307	.9843		
68.262	136.525	41.275	H414245	H414210	70.000	110.000	31.000	X33014M	Y33014M
2.6875	5.3750	1.6250			2.7559	4.3307	1.2205		
68.262	136.525	41.275	642	632	70.000	120.000	37.000	X33114	Y33114
2.6875	5.3750	1.6250			2.7559	4.7244	1.4567		
68.262	139.700	46.038	H715343	H715310	70.000	125.000	26.250	X30214M	Y30214M
2.6875	5.5000	1.8125			2.7559	4.9213	1.0335		
68.262	152.400	47.626	H914841	H914811	70.000	125.000	33.250	X32214M	Y32214M
2.6875	6.0000	1.8750			2.7559	4.9213	1.3091		
68.262	158.750	50.800	9185	9120	70.000	125.000	41.000	X33214	Y33214
2.6875	6.2500	2.0000			2.7559	4.9213	1.6142		
68.262	161.925	49.212	9278	9220	70.000	150.000	38.000	X31314M	Y31314M
2.6875	6.3750	1.9375			2.7559	5.9055	1.4961		
69.850	98.425	13.495	LL713049	LL713010	70.000	150.000	38.000	X30314	Y30314
2.7500	3.8750	.5313			2.7559	5.9055	1.4961		
69.850	99.217	17.000	LL713149	LL713110	70.000	150.000	54.000	X32314M	Y32314M
2.7500	3.9062	.6693			2.7559	5.9055	2.1260		
69.850	101.600	19.050	L713049	L713010	70.637	112.712	25.400	29680	29620
2.7500	4.0000	.7500			2.7810	4.4375	1.0000		
69.850	112.712	22.225	LM613449	LM613410	71.412	130.048	36.512	567AA	562
2.7500	4.4375	.8750			2.8115	5.1200	1.4375		
69.850	112.712	25.400	29675	29620	71.438	117.475	30.162	33281	33461
2.7500	4.4375	1.0000			2.8125	4.6250	1.1875		
69.850	117.475	30.162	33275	33461	71.438	120.000	32.545	47490	47420
2.7500	4.6250	1.1875			2.8125	4.7244	1.2813		
69.850	120.000	29.794	482	472	71.438	127.000	36.512	HM813849	HM813810
2.7500	4.7244	1.1730			2.8125	5.0000	1.4375		
69.850	120.000	32.545	47487	47420	71.438	130.048	36.512	567A	562
2.7500	4.7244	1.2813			2.8125	5.1200	1.4375		
69.850	127.000	36.512	HM813846	HM813810	71.438	133.350	30.163	495-S	492A
2.7500	5.0000	1.4375			2.8125	5.2500	1.1875		
69.850	130.048	36.512	566	562	71.438	133.350	33.337	47675	47620
2.7500	5.1200	1.4375			2.8125	5.2500	1.3125		
69.850	136.525	41.275	643	632	71.438	136.525	41.275	H414249	H414210
2.7500	5.3750	1.6250			2.8125	5.3750	1.6250		
69.850	139.700	46.038	H715344	H715310	71.438	136.525	41.275	644	632
2.7500	5.5000	1.8125			2.8125	5.3750	1.6250		
69.850	146.050	36.512	HM914545	HM914510	71.438	139.700	46.038	H715345	H715310
2.7500	5.7500	1.4375			2.8125	5.5000	1.8125		
69.850	146.050	41.275	H913849	H913810	73.025	112.712	25.400	29685	29620
2.7500	5.7500	1.6250			2.8750	4.4375	1.0000		
69.850	149.225	53.975	6454	6420	73.025	117.475	25.400	LM814845	LM814810
2.7500	5.8750	2.1250			2.8750	4.6250	1.0000		
69.850	150.089	44.450	744A	742	73.025	117.475	30.162	33287	33461
2.7500	5.9090	1.7500			2.8750	4.6250	1.1875		
69.850	152.400	41.275	655	652	73.025	123.825	38.887	M514546	M514512
2.7500	6.0000	1.6250			2.8750	4.8750	1.5310		
69.850	168.275	53.975	835	832	73.025	125.412	25.400	27680	27620
2.7500	6.6250	2.1250			2.8750	4.9375	1.0000		
69.914	177.800	52.387	9382	9320	73.025	127.000	30.163	42683	42620
2.7525	7.0000	2.0625			2.8750	5.0000	1.1875		
69.952	120.000	23.000	34274	34472X	73.025	130.048	36.512	567	562
2.7540	4.7244	.9055			2.8750	5.1200	1.4375		
69.987	139.700	46.038	H715347	H715310	73.025	139.992	36.513	576	572
2.7554	5.5000	1.8125			2.8750	5.5115	1.4375		
69.987	176.212	54.770	H916642	H916610	73.025	140.000	50.800	HM515741	HM515714
2.7554	6.9375	2.1563			2.8750	5.5118	2.0000		
70.000	112.712	25.400	29677	29620	73.025	142.138	50.800	5752	5720
2.7559	4.4375	1.0000			2.8750	5.5960	2.0000		
70.000	120.000	23.000	34275	34472X	73.025	149.225	53.975	6460	6420
2.7559	4.7244	.9055			2.8750	5.8750	2.1250		
70.000	120.000	29.794	484	472	73.025	150.089	44.450	744	742
2.7559	4.7244	1.1730			2.8750	5.9090	1.7500		

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The Bearing Dimension Catalog is not to be used as a design manual.  
The cone bore section does not include all available parts – see series for additional information.

## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
73.025	152.400	41.275	657	652	76.200	149.225	53.975	6461	6420
2.8750	6.0000	1.6250			3.0000	5.8750	2.1250		
73.025	161.925	47.625	762	752	76.200	150.089	44.450	748-S	742
2.8750	6.3750	1.8750			3.0000	5.9090	1.7500		
73.817	112.712	25.400	29688	29620	76.200	152.400	39.688	590A	592
2.9062	4.4375	1.0000			3.0000	6.0000	1.5625		
73.817	130.048	36.512	568	562	76.200	152.400	41.275	659	652
2.9062	5.1200	1.4375			3.0000	6.0000	1.6250		
74.612	139.992	36.513	577	572	76.200	161.925	47.625	755	752
2.9375	5.5115	1.4375			3.0000	6.3750	1.8750		
74.612	152.400	41.275	658	652	76.200	161.925	49.212	9285	9220
2.9375	6.0000	1.6250			3.0000	6.3750	1.9375		
74.976	120.000	23.000	34294	34472X	76.200	168.275	53.975	837	832
2.9518	4.7244	.9055			3.0000	6.6250	2.1250		
74.988	127.000	30.163	42686	42620	76.200	169.850	62.705	6554	6520
2.9523	5.0000	1.1875			3.0000	6.6870	2.4687		
75.000	115.000	25.000	X32015X	Y32015X	76.200	177.800	55.562	9378	9320
2.9528	4.5276	.9843			3.0000	7.0000	2.1875		
75.000	115.000	31.000	X33015	Y33015	76.200	180.975	53.975	H917840	H917810
2.9528	4.5276	1.2205			3.0000	7.1250	2.1250		
75.000	125.000	37.000	X33115	Y33115	76.200	190.500	57.150	HH221430	HH221410
2.9528	4.9213	1.4567			3.0000	7.5000	2.2500		
75.000	130.000	27.250	X30215M	Y30215M	77.356	120.000	23.000	34304	34472X
2.9528	5.1181	1.0728			3.0455	4.7244	.9055		
75.000	130.000	33.250	X32215M	Y32215M	77.788	117.475	25.400	LM814849	LM814810
2.9528	5.1181	1.3091			3.0625	4.6250	1.0000		
75.000	130.000	41.000	X33215M	Y33215M	77.788	120.000	23.000	34306	34472X
2.9528	5.1181	1.6142			3.0625	4.7244	.9055		
75.000	160.000	40.000	X30315M	Y30315M	77.788	127.000	30.163	42690	42620
2.9528	6.2992	1.5748			3.0625	5.0000	1.1875		
75.000	160.000	40.000	X31315M	Y31315M	77.788	133.350	30.163	495AS	492A
2.9528	6.2992	1.5748			3.0625	5.2500	1.1875		
75.000	130.048	36.512	568X	562	77.788	139.700	46.038	H715348	H715310
2.9528	5.1200	1.4375			3.0625	5.5000	1.8125		
75.000	133.350	30.163	497X	492A	77.788	142.138	44.450	5795	5720
2.9528	5.2500	1.1875			3.0625	5.5960	1.7500		
75.987	131.976	39.000	HM215249	HM215210	77.788	146.050	33.337	47880	47820
2.9916	5.1959	1.5354			3.0625	5.7500	1.3125		
76.000	120.000	23.000	34299X	34472X	77.788	164.976	49.500	H816249	H816210
2.9921	4.7244	.9055			3.0625	6.4951	1.9488		
76.162	169.850	53.975	6574P	6520	79.375	140.000	44.450	HM515749	HM515714
2.9985	6.6870	2.1250			3.1250	5.5118	1.7500		
76.200	98.425	11.112	EL914049	EL914010	79.375	150.089	44.450	750	742
3.0000	3.8750	.4375			3.1250	5.9090	1.7500		
76.200	105.570	13.495	LL714649	LL714610	79.375	152.400	39.688	595A	592
3.0000	4.1563	.5313			3.1250	6.0000	1.5625		
76.200	109.538	19.050	L814749	L814710	79.375	152.400	41.275	661	652
3.0000	4.3125	.7500			3.1250	6.0000	1.6250		
76.200	115.888	26.987	LM114848	LM114811	79.375	161.925	47.625	756A	752
3.0000	4.5625	1.0625			3.1250	6.3750	1.8750		
76.200	120.000	23.000	34300	34472X	79.375	190.500	57.150	HH221431	HH221410
3.0000	4.7244	.9055			3.1250	7.5000	2.2500		
76.200	125.412	25.400	27684	27620	79.974	129.974	26.987	LM716446	LM716411
3.0000	4.9375	1.0000			3.1486	5.1171	1.0625		
76.200	127.000	30.163	42687	42620	79.974	146.975	40.000	HM218238	HM218210
3.0000	5.0000	1.1875			3.1486	5.7864	1.5748		
76.200	133.350	30.163	495A	492A	79.985	133.350	30.163	496X	492A
3.0000	5.2500	1.1875			3.1490	5.2500	1.1875		
76.200	133.350	33.337	47678	47620	79.985	139.992	36.513	578	572
3.0000	5.2500	1.3125			3.1490	5.5115	1.4375		
76.200	133.350	39.687	HM516442	HM516410	79.985	152.400	39.688	590	592
3.0000	5.2500	1.5625			3.1490	6.0000	1.5625		
76.200	139.700	46.038	H715346	H715310	79.992	139.992	36.513	578W	572
3.0000	5.5000	1.8125			3.1493	5.5115	1.4375		
76.200	139.992	36.513	575	572	80.000	150.089	44.450	748	742
3.0000	5.5115	1.4375			3.1496	5.9090	1.7500		
76.200	140.000	44.450	HM515745	HM515714	80.000	200.000	52.761	98316	98788
3.0000	5.5118	1.7500			3.1496	7.8740	2.0772		
76.200	142.138	50.800	5755	5720	80.000	125.000	29.000	X32016X	Y32016X
3.0000	5.5960	2.0000			3.1496	4.9213	1.1417		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
80.000	130.000	37.000	X33116M	Y33116M	84.138	152.400	41.275	664	652
3.1496	5.1181	1.4567			3.3125	6.0000	1.6250		
80.000	140.000	28.250	X30216M	Y30216M	84.138	177.800	52.387	9386H	9320
3.1496	5.5118	1.1122			3.3125	7.0000	2.0625		
80.000	140.000	35.250	X32216M	Y32216M	84.138	193.675	52.000	H919942	H919911
3.1496	5.5118	1.3878			3.3125	7.6250	2.0472		
80.000	140.000	46.000	X33216	Y33216	84.976	125.412	25.400	27695	27620
3.1496	5.5118	1.8110			3.3455	4.9375	1.0000		
80.000	170.000	42.500	X30316M	Y30316M	84.976	133.350	30.163	499A	492A
3.1496	6.6929	1.6732			3.3455	5.2500	1.1875		
80.000	170.000	61.500	X32316M	Y32316M	85.000	130.000	29.000	X32017X	Y32017X
3.1496	6.6929	2.4213			3.3465	5.1181	1.1417		
80.962	133.350	30.163	496	492A	85.000	130.000	36.000	X33017	Y33017
3.1875	5.2500	1.1875			3.3465	5.1181	1.4173		
80.962	133.350	33.337	47681	47620	85.000	140.000	41.000	X33117	Y33117
3.1875	5.2500	1.3125			3.3465	5.5118	1.6142		
80.962	133.350	39.687	HM516447	HM516410	85.000	150.000	30.500	X30217M	Y30217M
3.1875	5.2500	1.5625			3.3465	5.9055	1.2008		
80.962	139.992	36.513	581	572	85.000	150.000	38.500	X32217M	Y32217M
3.1875	5.5115	1.4375			3.3465	5.9055	1.5157		
80.962	150.089	44.450	740	742	85.000	150.000	49.000	X33217M	Y33217M
3.1875	5.9090	1.7500			3.3465	5.9055	1.9291		
80.962	152.400	38.100	662	652	85.000	180.000	44.500	X30317M	Y30317M
3.1875	6.0000	1.5000			3.3465	7.0866	1.7520		
80.962	168.275	53.975	838	832	85.000	180.000	63.500	X32317	Y32317
3.1875	6.6250	2.1250			3.3465	7.0866	2.5000		
81.700	133.350	30.163	496AS	492A	85.000	152.400	39.688	599X	592
3.2165	5.2500	1.1875			3.3465	6.0000	1.5625		
82.550	114.300	15.083	LL116249	LL116210	85.000	152.400	41.275	665X	652
3.2500	4.5000	.5938			3.3465	6.0000	1.6250		
82.550	115.888	20.637	L116149	L116110	85.000	161.925	48.006	762X	752
3.2500	4.5625	.8125			3.3465	6.3750	1.8900		
82.550	123.825	28.575	LM116548	LM116511	85.000	188.912	53.297	90334	90744
3.2500	4.8750	1.1250			3.3465	7.4375	2.0983		
82.550	125.412	25.400	27687	27620	85.000	200.000	52.761	98335	98788
3.2500	4.9375	1.0000			3.3465	7.8740	2.0772		
82.550	129.974	26.987	LM716449	LM716411	85.026	150.089	44.450	749	742
3.2500	5.1171	1.0625			3.3475	5.9090	1.7500		
82.550	133.350	30.163	495	492A	85.725	133.350	30.163	497	492A
3.2500	5.2500	1.1875			3.3750	5.2500	1.1875		
82.550	133.350	33.337	47685	47620	85.725	142.138	42.863	HM617048	HM617010
3.2500	5.2500	1.3125			3.3750	5.5960	1.6875		
82.550	133.350	39.687	HM516448	HM516410	85.725	152.400	39.688	596	592
3.2500	5.2500	1.5625			3.3750	6.0000	1.5625		
82.550	139.992	36.513	580	572	85.725	152.400	41.275	665	652
3.2500	5.5115	1.4375			3.3750	6.0000	1.6250		
82.550	142.138	42.863	HM617045	HM617010	85.725	161.925	47.625	758	752
3.2500	5.5960	1.6875			3.3750	6.3750	1.8750		
82.550	150.089	44.450	749A	742	85.725	168.275	41.275	677	672
3.2500	5.9090	1.7500			3.3750	6.6250	1.6250		
82.550	152.400	39.688	595	592	85.725	168.275	53.975	841	832
3.2500	6.0000	1.5625			3.3750	6.6250	2.1250		
82.550	152.400	41.275	663	652	87.312	123.825	20.637	L217847	L217810
3.2500	6.0000	1.6250			3.4375	4.8750	.8125		
82.550	161.925	47.625	756	752	87.312	152.400	39.688	596-S	592
3.2500	6.3750	1.8750			3.4375	6.0000	1.5625		
82.550	168.275	53.975	839	832	87.312	190.500	57.150	HH221432	HH221410
3.2500	6.6250	2.1250			3.4375	7.5000	2.2500		
82.550	169.850	53.975	6559C	6520	87.312	190.500	57.150	869	852
3.2500	6.6870	2.1250			3.4375	7.5000	2.2500		
82.550	180.975	53.975	H917849	H917810	87.960	148.430	28.575	42346	42584
3.2500	7.1250	2.1250			3.4630	5.8437	1.1250		
83.345	125.412	25.400	27688H	27620	88.900	121.442	15.082	LL217849	LL217810
3.2813	4.9375	1.0000			3.5000	4.7812	.5938		
83.345	133.350	33.337	47688	47620	88.900	123.825	20.637	L217849	L217810
3.2813	5.2500	1.3125			3.5000	4.8750	.8125		
84.000	140.000	32.000	XUA32018X	Y32018X	88.900	125.412	19.050	L117549	L117510
3.3071	5.5118	1.2598			3.5000	4.9375	.7500		
84.138	133.350	30.163	498	492A	88.900	130.175	28.574	LM117949	LM117910
3.3125	5.2500	1.1875			3.5000	5.1250	1.1250		

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## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
88.900	148.430	28.575	42350	42584	92.075	146.050	33.337	47890	47820
3.5000	5.8437	1.1250			3.6250	5.7500	1.3125		
88.900	152.400	39.688	593	592	92.075	148.430	28.575	42362	42584
3.5000	6.0000	1.5625			3.6250	5.8437	1.1250		
88.900	152.400	39.688	HM518445	HM518410	92.075	152.400	39.688	598	592
3.5000	6.0000	1.5625			3.6250	6.0000	1.5625		
88.900	160.096	30.124	69350X	69630	92.075	168.275	41.275	681	672
3.5000	6.3030	1.1860			3.6250	6.6250	1.6250		
88.900	161.925	47.625	759	752	92.075	171.450	47.625	77362	77675
3.5000	6.3750	1.8750			3.6250	6.7500	1.8750		
88.900	168.275	41.275	679	672	92.075	180.975	47.625	778	772
3.5000	6.6250	1.6250			3.6250	7.1250	1.8750		
88.900	168.275	53.975	850	832	92.075	190.500	57.150	HH221438	HH221410
3.5000	6.6250	2.1250			3.6250	7.5000	2.2500		
88.900	169.850	62.705	6552	6520	92.075	190.500	57.150	857	852
3.5000	6.6870	2.4687			3.6250	7.5000	2.2500		
88.900	171.450	47.625	77350	77675	92.075	214.312	73.025	EE213362	213843
3.5000	6.7500	1.8750			3.6250	8.4375	2.8750		
88.900	180.975	47.625	775	772	93.662	148.430	28.575	42368	42584
3.5000	7.1250	1.8750			3.6875	5.8437	1.1250		
88.900	190.500	57.150	HH221434	HH221410	93.662	152.400	39.688	596W	592
3.5000	7.5000	2.2500			3.6875	6.0000	1.5625		
88.900	190.500	57.150	855	852	94.948	190.500	47.625	71373	71750
3.5000	7.5000	2.2500			3.7381	7.5000	1.8750		
88.900	200.000	52.761	98350	98788	94.976	148.430	28.575	42373	42584
3.5000	7.8740	2.0772			3.7392	5.8437	1.1250		
89.090	152.400	39.688	593-S	592	94.976	168.275	41.275	682	672
3.5075	6.0000	1.5625			3.7392	6.6250	1.6250		
89.891	168.275	53.975	850A	832	94.976	190.500	57.150	867A	852
3.5390	6.6250	2.1250			3.7392	7.5000	2.2500		
89.974	146.975	40.000	HM218248	HM218210	94.983	177.800	41.275	64373	64700
3.5423	5.7864	1.5748			3.7395	7.0000	1.6250		
89.974	200.000	52.761	98354	98788	95.000	145.000	32.000	X32019X	Y32019X
3.5423	7.8740	2.0772			3.7402	5.7087	1.2598		
89.980	190.500	63.619	HH221435	HH221410	95.000	145.000	39.000	X33019	Y33019
3.5425	7.5000	2.5047			3.7402	5.7087	1.5354		
89.992	160.096	30.124	69354	69630	95.000	170.000	34.500	X30219M	Y30219M
3.5430	6.3030	1.1860			3.7402	6.6929	1.3583		
90.000	148.430	28.575	42354X	42584	95.000	170.000	45.500	X32219M	Y32219M
3.5433	5.8437	1.1250			3.7402	6.6929	1.7913		
90.000	152.400	39.688	597X	592	95.000	168.275	41.275	683X	672
3.5433	6.0000	1.5625			3.7402	6.6250	1.6250		
90.000	161.925	47.625	767X	752	95.000	190.500	57.150	862	852
3.5433	6.3750	1.8750			3.7402	7.5000	2.2500		
90.000	169.850	53.975	6581X	6520	95.250	128.587	15.875	LL319348	LL319310
3.5433	6.6870	2.1250			3.7500	5.0625	.6250		
90.000	200.000	52.761	98354X	98788	95.250	130.175	20.638	L319249	L319210
3.5433	7.8740	2.0772			3.7500	5.1250	.8125		
90.000	140.000	32.000	X32018X	Y32018X	95.250	136.525	30.162	LM119348	LM119311
3.5433	5.5118	1.2598			3.7500	5.3750	1.1875		
90.000	140.000	39.000	X33018	Y33018	95.250	146.050	33.337	47896	47820
3.5433	5.5118	1.5354			3.7500	5.7500	1.3125		
90.000	150.000	45.000	X33118M	Y33118M	95.250	148.430	28.575	42375	42584
3.5433	5.9055	1.7717			3.7500	5.8437	1.1250		
90.000	160.000	32.500	X30218M	Y30218M	95.250	152.400	39.688	594	592
3.5433	6.2992	1.2795			3.7500	6.0000	1.5625		
90.000	160.000	42.500	X32218M	Y32218M	95.250	157.162	36.512	52375	52618
3.5433	6.2992	1.6732			3.7500	6.1875	1.4375		
90.000	190.000	46.500	X31318M	Y31318M	95.250	168.275	41.275	683	672
3.5433	7.4803	1.8307			3.7500	6.6250	1.6250		
90.488	161.925	47.625	760	752	95.250	171.450	47.625	77375	77675
3.5625	6.3750	1.8750			3.7500	6.7500	1.8750		
91.351	152.400	39.688	597A	592	95.250	180.975	47.625	776	772
3.5965	6.0000	1.5625			3.7500	7.1250	1.8750		
91.973	142.875	30.000	LM718947	LM718910	95.250	190.500	57.150	HH221440	HH221410
3.6210	5.6250	1.1811			3.7500	7.5000	2.2500		
92.075	130.175	20.638	L319245	L319210	95.250	190.500	57.150	864	852
3.6250	5.1250	.8125			3.7500	7.5000	2.2500		
92.075	130.175	28.575	LM218948	LM218911	95.250	200.025	73.025	EH220749	EH220710
3.6250	5.1250	1.1250			3.7500	7.8750	2.8750		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
96.838	148.430	28.575	42381	42584	101.600	177.800	34.925	LM921845	LM921810
3.8125	5.8437	1.1250			4.0000	7.0000	1.3750		
96.838	188.912	50.800	90381	90744	101.600	180.975	47.625	780	772
3.8125	7.4375	2.0000			4.0000	7.1250	1.8750		
98.425	157.162	36.512	52387	52618	101.600	190.500	57.150	HH221449	HH221410
3.8750	6.1875	1.4375			4.0000	7.5000	2.2500		
98.425	168.275	41.275	685	672	101.600	190.500	57.150	861	852
3.8750	6.6250	1.6250			4.0000	7.5000	2.2500		
98.425	180.975	47.625	779	772	101.600	200.000	52.761	98400	98788
3.8750	7.1250	1.8750			4.0000	7.8740	2.0772		
98.425	184.150	63.500	HH421246C	HH421210	101.600	206.375	66.675	941	930
3.8750	7.2500	2.5000			4.0000	8.1250	2.6250		
98.425	190.500	57.150	HH221442	HH221410	101.600	212.725	66.674	HH224335	HH224310
3.8750	7.5000	2.2500			4.0000	8.3750	2.6250		
98.425	190.500	57.150	866	852	101.600	214.312	55.562	H924033	H924010
3.8750	7.5000	2.2500			4.0000	8.4375	2.1875		
98.425	206.375	66.675	943	930	101.600	250.825	76.200	EE215040	215096
3.8750	8.1250	2.6250			4.0000	9.8750	3.0000		
98.425	212.725	66.674	HH224332	HH224310	101.600	250.825	76.200	HH923649	HH923610
3.8750	8.3750	2.6250			4.0000	9.8750	3.0000		
99.212	171.450	49.213	HM321245	HM321210	103.188	168.275	41.275	689	672
3.9060	6.7500	1.9375			4.0625	6.6250	1.6250		
99.898	200.000	52.761	98393	98788	104.775	142.083	15.875	LL521845	LL521810
3.9330	7.8740	2.0772			4.1250	5.5938	.6250		
99.974	146.050	25.400	LM720646	LM720610	104.775	180.975	47.625	782	772
3.9360	5.7500	1.0000			4.1250	7.1250	1.8750		
99.974	156.975	42.000	HM220145	HM220110	104.775	190.500	47.625	71412	71750
3.9360	6.1801	1.6535			4.1250	7.5000	1.8750		
99.974	180.975	47.625	783A	772	105.000	160.000	35.000	X32021X	Y32021X
3.9360	7.1250	1.8750			4.1339	6.2992	1.3780		
99.974	206.375	66.675	944A	930	105.000	160.000	43.000	X33021M	Y33021M
3.9360	8.1250	2.6250			4.1339	6.2992	1.6929		
99.974	212.725	66.674	HH224334	HH224310	105.000	190.000	39.000	X30221M	Y30221M
3.9360	8.3750	2.6250			4.1339	7.4803	1.5354		
99.982	190.500	57.150	HH221447	HH221410	105.000	190.000	53.000	X32221M	Y32221M
3.9363	7.5000	2.2500			4.1339	7.4803	2.0866		
100.000	157.162	36.512	52394X	52618	106.000	160.000	35.000	XGA32021X	Y32021X
3.9370	6.1875	1.4375			4.1732	6.2992	1.3780		
100.000	180.975	47.625	783	772	106.362	165.100	36.512	56418	56650
3.9370	7.1250	1.8750			4.1875	6.5000	1.4375		
100.000	190.500	57.150	863X	852	106.975	146.975	28.500	LM121349	LM121310
3.9370	7.5000	2.2500			4.2116	5.7864	1.1220		
100.000	200.000	52.761	98394X	98788	107.874	146.050	21.432	L521948	L521910
3.9370	7.8740	2.0772			4.2470	5.7500	.8438		
100.000	150.000	32.000	X32020X	Y32020X	107.950	142.083	15.875	LL521849C	LL521810
3.9370	5.9055	1.2598			4.2500	5.5938	.6250		
100.000	150.000	39.000	X33020	Y33020	107.950	146.050	21.432	L521949	L521910
3.9370	5.9055	1.5354			4.2500	5.7500	.8438		
100.000	180.000	37.000	X30220M	Y30220M	107.950	158.750	23.020	37425	37624
3.9370	7.0866	1.4567			4.2500	6.2500	.9063		
100.000	180.000	49.000	X32220M	Y32220M	107.950	159.987	34.925	LM522546	LM522510
3.9370	7.0866	1.9291			4.2500	6.2987	1.3750		
100.012	157.162	36.512	52393	52618	107.950	161.925	34.925	48190	48120
3.9375	6.1875	1.4375			4.2500	6.3750	1.3750		
100.813	180.975	47.625	789	772	107.950	165.100	36.512	56425	56650
3.9690	7.1250	1.8750			4.2500	6.5000	1.4375		
101.600	134.938	15.875	LL420549	LL420510	107.950	171.450	34.000	67425	67675
4.0000	5.3125	.6250			4.2500	6.7500	1.3386		
101.600	136.525	21.433	L420449	L420410	107.950	190.500	47.625	71425	71750
4.0000	5.3750	.8438			4.2500	7.5000	1.8750		
101.600	146.050	21.432	L521945	L521910	107.950	201.612	57.150	H424434	H424415
4.0000	5.7500	.8438			4.2500	7.9375	2.2500		
101.600	146.050	25.400	LM720648	LM720610	107.950	206.375	66.675	936	930
4.0000	5.7500	1.0000			4.2500	8.1250	2.6250		
101.600	146.050	31.750	LM120749	LM120710	107.950	212.725	66.674	HH224340	HH224310
4.0000	5.7500	1.2500			4.2500	8.3750	2.6250		
101.600	157.162	36.512	52400	52618	109.100	206.375	66.675	935A	930
4.0000	6.1875	1.4375			4.2953	8.1250	2.6250		
101.600	168.275	41.275	687	672	109.538	158.750	23.020	37431	37624
4.0000	6.6250	1.6250			4.3125	6.2500	.9063		

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## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
109.900 4.3268	212.725 8.3750	66.675 2.6250	937XA	932	114.976 4.5266	212.725 8.3750	66.674 2.6250	HH224349	HH224310
109.941 4.3284	195.262 7.6875	53.975 2.1250	HM124640	HM124618	115.000 4.5276	177.800 7.0000	40.000 1.5748	64452X	64700
109.952 4.3288	190.500 7.5000	47.625 1.8750	71432	71750	115.087 4.5310	190.500 7.5000	47.625 1.8750	71453	71750
109.974 4.3297	177.800 7.0000	41.275 1.6250	64432	64700	117.373 4.6210	195.262 7.6875	53.975 2.1250	HM124644	HM124618
109.984 4.3301	214.312 8.4375	55.562 2.1875	H924043	H924010	117.475 4.6250	179.974 7.0856	34.925 1.3750	68462	68709
109.987 4.3302	159.987 6.2987	34.925 1.3750	LM522548	LM522510	117.475 4.6250	212.725 8.3750	63.500 2.5000	H225148	H225110
109.992 4.3304	177.800 7.0000	41.275 1.6250	64433	64700	119.062 4.6875	195.262 7.6875	53.975 2.1250	HM124646	HM124618
110.000 4.3307	190.500 7.5000	47.625 1.8750	71433X	71750	119.949 4.7224	204.775 8.0620	55.563 2.1875	HM125943	HM125910
110.000 4.3307	206.375 8.1250	66.675 2.6250	942	930	119.957 4.7227	195.262 7.6875	53.975 2.1250	HM124649	HM124618
110.000 4.3307	170.000 6.6929	38.000 1.4961	X32022X	Y32022X	119.957 4.7227	207.962 8.1875	53.975 2.1250	HM127436	HM127415
110.000 4.3307	170.000 6.6929	47.000 1.8504	X33022	Y33022	119.964 4.7230	214.975 8.4636	47.625 1.8750	74472	74845
110.000 4.3307	200.000 7.8740	41.000 1.6142	X30222M	Y30222M	119.974 4.7234	172.242 6.7812	35.720 1.4063	M224748	M224713A
110.000 4.3307	200.000 7.8740	56.000 2.2047	X32222M	Y32222M	119.974 4.7234	254.000 10.0000	77.788 3.0625	HH228336	HH228310
110.332 4.3438	171.450 6.7500	34.000 1.3386	67434	67675	120.000 4.7244	214.975 8.4636	47.625 1.8750	74473X	74845
110.400 4.3465	146.000 5.7480	21.420 .8433	L522148WV	L522110V	120.000 4.7244	228.600 9.0000	53.975 2.1250	97472X	97900
111.125 4.3750	171.450 6.7500	34.000 1.3386	67437	67675	120.000 4.7244	165.000 6.4961	29.000 1.1417	X32924M	Y32924M
111.125 4.3750	177.800 7.0000	41.275 1.6250	64437	64700	120.000 4.7244	180.000 7.0866	38.000 1.4961	X32024X	Y32024X
111.125 4.3750	190.500 7.5000	47.625 1.8750	71437	71750	120.000 4.7244	180.000 7.0866	48.000 1.8898	X33024	Y33024
111.125 4.3750	214.312 8.4375	55.562 2.1875	H924045	H924010	120.000 4.7244	215.000 8.4646	43.500 1.7126	X30224M	Y30224M
111.918 4.4062	206.375 8.1250	66.675 2.6250	947	930	120.000 4.7244	215.000 8.4646	61.500 2.4213	X32224M	Y32224M
114.300 4.5000	152.400 6.0000	21.432 .8438	L623149	L623110	120.650 4.7500	160.338 6.3125	21.433 .8438	L624549	L624510
114.300 4.5000	158.750 6.2500	34.925 1.3750	LM122948	LM122911	120.650 4.7500	166.688 6.5625	25.400 1.0000	L724349	L724310
114.300 4.5000	161.925 6.3750	27.783 1.0938	LM722949	LM722910	120.650 4.7500	166.688 6.5625	52.387 2.0625	LM124448	LM124410
114.300 4.5000	177.800 7.0000	41.275 1.6250	64450	64700	120.650 4.7500	169.862 6.6875	25.400 1.0000	L225842	L225810
114.300 4.5000	179.974 7.0856	34.925 1.3750	68450	68709	120.650 4.7500	174.625 6.8750	35.720 1.4063	M224749	M224710
114.300 4.5000	190.500 7.5000	47.625 1.8750	71450	71750	120.650 4.7500	182.562 7.1875	39.689 1.5626	48282	48220
114.300 4.5000	201.612 7.9375	57.150 2.2500	H424442	H424415	120.650 4.7500	190.500 7.5000	46.037 1.8125	HM624749	HM624710
114.300 4.5000	206.375 8.1250	66.675 2.6250	938	930	120.650 4.7500	203.200 8.0000	46.038 1.8125	67384	67320
114.300 4.5000	212.725 8.3750	66.674 2.6250	HH224346	HH224310	120.650 4.7500	206.375 8.1250	47.625 1.8750	795	792
114.300 4.5000	228.600 9.0000	53.975 2.1250	HM926740	HM926710	120.650 4.7500	230.000 9.0551	63.500 2.5000	95475	95905
114.300 4.5000	228.600 9.0000	53.975 2.1250	97450	97900	120.650 4.7500	244.475 9.6250	57.150 2.2500	EE341048	341096
114.300 4.5000	254.000 10.0000	77.787 3.0625	EE197045	197100	120.650 4.7500	254.000 10.0000	77.788 3.0625	HH228340	HH228310
114.300 4.5000	273.050 10.7500	82.550 3.2500	HH926744	HH926710	120.650 4.7500	254.000 10.0000	77.788 3.0625	EE153044	153100
114.300 4.5000	279.400 11.0000	82.550 3.2500	EE514045	514110	120.650 4.7500	273.050 10.7500	82.550 3.2500	HH926749	HH926710
114.976 4.5266	177.800 7.0000	41.275 1.6250	64452	64700	123.825 4.8750	182.562 7.1875	39.689 1.5626	48286	48220

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
123.825	204.775	55.563	HM125948	HM125910	127.792	228.600	53.975	97503	97900
4.8750	8.0620	2.1875			5.0312	9.0000	2.1250		
123.825	254.000	77.788	HH228344	HH228310	128.575	230.000	63.500	95506	95905
4.8750	10.0000	3.0625			5.0620	9.0551	2.5000		
123.825	254.000	77.788	EE153049	153100	128.587	190.500	34.925	48506	48750
4.8750	10.0000	3.0625			5.0625	7.5000	1.3750		
124.943	230.000	63.500	95491	95905	128.587	206.375	47.625	799	792
4.9190	9.0551	2.5000			5.0625	8.1250	1.8750		
125.298	228.600	53.975	HM926745	HM926710	129.967	207.962	53.975	HM127442	HM127415
4.9330	9.0000	2.1250			5.1168	8.1875	2.1250		
125.298	228.600	53.975	97493	97900	129.967	215.900	57.150	HM227545	HM227515
4.9330	9.0000	2.1250			5.1168	8.5000	2.2500		
126.987	207.962	53.975	HM127440	HM127415	129.967	230.000	63.500	95514X	95905
4.9995	8.1875	2.1250			5.1168	9.0551	2.5000		
127.000	165.895	18.257	LL225749	LL225710	129.974	230.000	63.500	95512	95905
5.0000	6.5313	.7188			5.1171	9.0551	2.5000		
127.000	169.862	25.400	L225849	L225810	129.974	254.000	79.502	HH228346NW	HH228310
5.0000	6.6875	1.0000			5.1171	10.0000	3.1300		
127.000	171.450	25.400	L725349	L725311	130.000	206.375	47.625	797	792
5.0000	6.7500	1.0000			5.1181	8.1250	1.8750		
127.000	173.038	42.863	M325948	M325911	130.000	214.975	47.625	74511X	74845
5.0000	6.8125	1.6875			5.1181	8.4636	1.8750		
127.000	174.625	36.512	LM125748	LM125711	130.000	230.000	63.500	95512X	95905
5.0000	6.8750	1.4375			5.1181	9.0551	2.5000		
127.000	182.562	39.689	48290	48220	130.000	262.000	78.000	EE154512	154103
5.0000	7.1875	1.5626			5.1181	10.3150	3.0709		
127.000	196.850	46.036	M327345	67322	130.000	200.000	45.000	X32026X	Y32026X
5.0000	7.7500	1.8125			5.1181	7.8740	1.7717		
127.000	203.200	46.038	67388	67320	130.000	230.000	43.750	X30226M	Y30226M
5.0000	8.0000	1.8125			5.1181	9.0551	1.7224		
127.000	206.375	47.625	796X	792	130.000	230.000	67.750	X32226M	Y32226M
5.0000	8.1250	1.8750			5.1181	9.0551	2.6673		
127.000	214.312	49.205	85499	85845	130.175	203.200	46.038	67389	67320
5.0000	8.4375	1.9372			5.1250	8.0000	1.8125		
127.000	214.975	47.625	74500	74845	130.175	206.375	47.625	799A	792
5.0000	8.4636	1.8750			5.1250	8.1250	1.8750		
127.000	215.900	57.150	HM227542	HM227515	131.750	207.962	53.975	HM127446	HM127415
5.0000	8.5000	2.2500			5.1870	8.1875	2.1250		
127.000	228.600	53.975	HM926747	HM926710	133.350	173.038	19.050	LL327049	LL327010
5.0000	9.0000	2.1250			5.2500	6.8125	.7500		
127.000	228.600	53.975	97500	97900	133.350	177.008	25.400	L327249	L327210
5.0000	9.0000	2.1250			5.2500	6.9688	1.0000		
127.000	230.000	63.500	95500	95905	133.350	184.150	25.400	L826949	L826914
5.0000	9.0551	2.5000			5.2500	7.2500	1.0000		
127.000	234.950	71.438	HH427346	HH427315	133.350	190.500	39.687	48385	48320
5.0000	9.2500	2.8125			5.2500	7.5000	1.5625		
127.000	247.650	63.500	EE116050	116097	133.350	194.975	35.300	LM229136C	LM229110
5.0000	9.7500	2.5000			5.2500	7.6762	1.3898		
127.000	249.974	66.675	99500	99097	133.350	196.850	46.036	M327349	67322
5.0000	9.8415	2.6250			5.2500	7.7500	1.8125		
127.000	254.000	77.788	HH228349	HH228310	133.350	203.200	46.038	67390	67320
5.0000	10.0000	3.0625			5.2500	8.0000	1.8125		
127.000	254.000	77.788	EE153050	153100	133.350	214.975	47.625	74525	74845
5.0000	10.0000	3.0625			5.2500	8.4636	1.8750		
127.000	279.400	82.550	EE514050	514110	133.350	230.000	63.500	95524V	95905
5.0000	11.0000	3.2500			5.2500	9.0551	2.5000		
127.000	285.000	85.003	EE455051	455112X	134.976	214.975	47.625	74529	74845
5.0000	11.2205	3.3466			5.3140	8.4636	1.8750		
127.000	288.925	82.550	HH231637	HH231610	136.525	187.325	28.575	LM328444	LM328410
5.0000	11.3750	3.2500			5.3750	7.3750	1.1250		
127.000	295.275	82.550	EE195500X	195116X	136.525	190.500	39.687	48393	48320
5.0000	11.6250	3.2500			5.3750	7.5000	1.5625		
127.000	295.275	82.553	EE540502	541162	136.525	194.975	33.000	LM229140C	LM229110
5.0000	11.6250	3.2501			5.3750	7.6762	1.2992		
127.000	304.800	60.325	750500	751200	136.525	214.975	47.625	74536W	74845
5.0000	12.0000	2.3750			5.3750	8.4636	1.8750		
127.000	304.800	88.900	HH932132	HH932110	136.525	228.600	57.150	896	892
5.0000	12.0000	3.5000			5.3750	9.0000	2.2500		
127.792	228.600	53.975	HM926749	HM926710	136.525	249.974	66.675	99537	99097
5.0312	9.0000	2.1250			5.3750	9.8415	2.6250		

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# BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
136.525 5.3750	280.000 11.0236	82.550 3.2500	EE270537XS	271102-S	144.462 5.6875	241.300 9.5000	63.500 2.5000	H230847	H230811
136.525 5.3750	304.800 12.0000	79.375 3.1250	EE580537	581200	146.050 5.7500	188.120 7.4063	22.225 .8750	LL529749	LL529710
137.318 5.4062	249.974 9.8415	66.675 2.6250	99540	99097	146.050 5.7500	193.675 7.6250	28.575 1.1250	36690	36620
139.687 5.4995	269.875 10.6250	77.000 3.0315	H432640	H432610	146.050 5.7500	203.200 8.0000	45.100 1.7756	M229349	M229310
139.700 5.5000	180.975 7.1250	21.432 .8438	LL428349	LL428310	146.050 5.7500	236.538 9.3125	57.150 2.2500	HM231140	HM231110
139.700 5.5000	187.325 7.3750	28.575 1.1250	LM328448	LM328410	146.050 5.7500	236.538 9.3125	57.150 2.2500	82576	82931
139.700 5.5000	188.912 7.4375	39.688 1.5625	LM328048	LM328011	146.050 5.7500	244.475 9.6250	47.625 1.8750	81575	81962
139.700 5.5000	214.975 8.4636	47.625 1.8750	74550	74845	146.050 5.7500	249.974 9.8415	66.675 2.6250	99575	99097
139.700 5.5000	222.250 8.7500	34.925 1.3750	73551	73875	146.050 5.7500	268.288 10.5625	74.613 2.9375	EE107057	107105
139.700 5.5000	228.600 9.0000	57.150 2.2500	898	892	146.050 5.7500	285.750 11.2500	76.200 3.0000	EE217056	217112
139.700 5.5000	236.538 9.3125	57.150 2.2500	HM231132	HM231110	146.050 5.7500	304.800 12.0000	60.325 2.3750	EE750573	751200
139.700 5.5000	236.538 9.3125	57.150 2.2500	82550	82931	146.050 5.7500	304.800 12.0000	88.900 3.5000	HH932145	HH932110
139.700 5.5000	241.300 9.5000	63.500 2.5000	H230844	H230811	146.050 5.7500	307.975 12.1250	88.900 3.5000	HH234040	HH234010
139.700 5.5000	246.858 9.7188	60.325 2.3750	H429648	H429611	149.225 5.8750	236.538 9.3125	57.150 2.2500	HM231148	HM231110
139.700 5.5000	249.974 9.8415	66.675 2.6250	99550	99097	149.225 5.8750	236.538 9.3125	57.150 2.2500	82587	82931
139.700 5.5000	268.288 10.5625	74.613 2.9375	EE107055	107105	149.225 5.8750	249.974 9.8415	66.675 2.6250	99587	99097
139.700 5.5000	288.925 11.3750	82.550 3.2500	HH231649	HH231610	149.860 5.9000	317.500 12.5000	77.787 3.0625	560990	561251
139.700 5.5000	295.275 11.6250	82.553 3.2501	EE540550	541162	149.967 5.9042	252.412 9.9375	63.500 2.5000	HM133436	HM133416
139.700 5.5000	304.800 12.0000	60.325 2.3750	750550	751200	149.974 5.9045	249.974 9.8415	66.675 2.6250	99591	99097
139.700 5.5000	307.975 12.1250	88.900 3.5000	HH234031	HH234010	149.987 5.9050	223.838 8.8125	46.037 1.8125	M432144	M432111
139.878 5.5070	285.000 11.2205	85.003 3.3466	455958	455112X	150.000 5.9055	244.475 9.6250	47.625 1.8750	81590	81962
139.974 5.5108	214.975 8.4636	47.625 1.8750	74556	74845	150.000 5.9055	249.974 9.8415	66.675 2.6250	99590X	99097
139.974 5.5108	249.974 9.8415	66.675 2.6250	99553	99097	150.000 5.9055	210.000 8.2677	38.000 1.4961	X32930M	Y32930M
140.000 5.5118	214.975 8.4636	47.625 1.8750	74551X	74845	150.000 5.9055	225.000 8.8583	48.000 1.8898	X32030X	YX
140.000 5.5118	285.000 11.2205	85.003 3.3466	EE455055X	455112X	150.000 5.9055	270.000 10.6299	49.000 1.9291	X30230M	Y30230M
140.000 5.5118	190.000 7.4803	32.000 1.2598	X32928M	Y32928M	150.698 5.9330	317.500 12.5000	77.787 3.0625	EE560592	561251
140.000 5.5118	210.000 8.2677	45.000 1.7717	X32028X	Y32028X	150.812 5.9375	203.200 8.0000	41.275 1.6250	LM330446	LM330410
140.000 5.5118	250.000 9.8425	45.750 1.8012	X30228M	Y30228M	150.812 5.9375	244.475 9.6250	47.625 1.8750	81593	81962
142.875 5.6250	193.675 7.6250	28.575 1.1250	36686	36620	150.967 5.9436	222.250 8.7500	46.830 1.8437	M231647	M231610
142.875 5.6250	194.975 7.6762	33.000 1.2992	LM229147C	LM229110	152.387 5.9995	269.875 10.6250	77.000 3.0315	H432649	H432610
142.875 5.6250	200.025 7.8750	41.275 1.6250	48684	48620	152.400 6.0000	192.088 7.5625	25.000 .9843	L630349	L630310
142.875 5.6250	222.250 8.7500	34.925 1.3750	73562	73875	152.400 6.0000	203.200 8.0000	28.575 1.1250	L730649	L730610
142.875 5.6250	236.538 9.3125	57.150 2.2500	HM231136	HM231110	152.400 6.0000	203.200 8.0000	41.275 1.6250	LM330448	LM330410
142.875 5.6250	236.538 9.3125	57.150 2.2500	82562	82931	152.400 6.0000	222.250 8.7500	46.830 1.8437	M231648	M231610
144.450 5.6870	252.412 9.9375	63.500 2.5000	HM133432	HM133416	152.400 6.0000	244.475 9.6250	47.625 1.8750	81600	81962

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
152.400	249.974	66.675	99600	99097	165.100	288.925	63.500	94649	94113
6.0000	9.8415	2.6250			6.5000	11.3750	2.5000		
152.400	266.700	66.675	HM234636	HM234610	165.100	288.925	63.500	HM237534	HM237510
6.0000	10.5000	2.6250			6.5000	11.3750	2.5000		
152.400	268.288	74.613	EE107060	107105	165.100	298.450	82.550	EE219065	219117
6.0000	10.5625	2.9375			6.5000	11.7500	3.2500		
152.400	285.750	76.200	EE217060	217112	165.100	311.150	82.550	H238140	H238110
6.0000	11.2500	3.0000			6.5000	12.2500	3.2500		
152.400	304.800	79.375	580995	581200	165.100	317.500	77.787	EE560650	561251
6.0000	12.0000	3.1250			6.5000	12.5000	3.0625		
152.400	307.975	88.900	HH234048	HH234010	165.100	336.550	79.375	EE590649	591326
6.0000	12.1250	3.5000			6.5000	13.2500	3.1250		
152.400	317.500	77.787	EE560600	561251	165.100	336.550	88.900	EE717065	717132
6.0000	12.5000	3.0625			6.5000	13.2500	3.5000		
152.400	355.600	61.909	780600	781400	165.100	336.550	92.075	HH437549	HH437510
6.0000	14.0000	2.4374			6.5000	13.2500	3.6250		
153.988	244.475	47.625	81606	81962	165.100	355.600	61.909	780650	781400
6.0625	9.6250	1.8750			6.5000	14.0000	2.4374		
155.575	330.200	85.725	H936340	H936310	165.100	360.000	92.075	EE420651	421417
6.1250	13.0000	3.3750			6.5000	14.1732	3.6250		
157.150	252.412	63.500	HM133444	HM133416	165.100	361.950	106.362	EE108065	108142
6.1870	9.9375	2.5000			6.5000	14.2500	4.1875		
157.162	223.838	46.037	M432148A	M432111	166.000	225.425	41.275	46791A	46720
6.1875	8.8125	1.8125			6.5354	8.8750	1.6250		
158.750	205.582	23.812	L432348	L432310	166.688	225.425	41.275	46792	46720
6.2500	8.0938	.9375			6.5625	8.8750	1.6250		
158.750	225.425	41.275	46780	46720	167.945	254.000	49.212	M235146AX	M235113
6.2500	8.8750	1.6250			6.6120	10.0000	1.9375		
158.750	285.750	76.200	EE217062X	217112	168.275	247.650	47.625	67782	67720
6.2500	11.2500	3.0000			6.6250	9.7500	1.8750		
158.750	304.800	66.675	EE280626	281200	168.275	254.000	46.037	M235146	M235113
6.2500	12.0000	2.6250			6.6250	10.0000	1.8125		
159.512	266.700	66.675	HM234643	HM234610	168.275	330.200	85.725	H936348XX	H936310
6.2800	10.5000	2.6250			6.6250	13.0000	3.3750		
159.918	317.500	77.787	EE560629	561251	168.326	254.000	49.212	M235146X	M235113
6.2960	12.5000	3.0625			6.6270	10.0000	1.9375		
159.951	244.475	47.625	81629	81962	169.974	260.350	66.675	HM535347	HM535310
6.2973	9.6250	1.8750			6.6919	10.2500	2.6250		
160.000	252.412	63.500	HM133448	HM133416	169.984	288.925	63.500	94669	94113
6.2992	9.9375	2.5000			6.6923	11.3750	2.5000		
160.000	240.000	51.000	X32032XM	Y32032XM	170.000	254.000	46.037	M235149	M235113
6.2992	9.4488	2.0079			6.6929	10.0000	1.8125		
160.325	288.925	63.500	HM237532	HM237510	170.000	254.000	46.038	86669	86100
6.3120	11.3750	2.5000			6.6929	10.0000	1.8125		
160.338	317.500	77.787	EE560631X	561251	170.000	230.000	38.000	X32934M	Y32934M
6.3125	12.5000	3.0625			6.6929	9.0551	1.4961		
161.925	244.475	47.625	81637	81962	170.000	260.000	57.000	X32034XM	Y32034XM
6.3750	9.6250	1.8750			6.6929	10.2362	2.2441		
161.925	336.550	79.375	EE590638	591326	171.450	222.250	25.400	L435049	L435010
6.3750	13.2500	3.1250			6.7500	8.7500	1.0000		
161.925	374.650	87.312	EE117063	117148	171.450	254.000	46.038	86675	86100
6.3750	14.7500	3.4375			6.7500	10.0000	1.8125		
164.976	288.925	63.500	HM237537	HM237510	171.450	260.350	66.675	HM535349	HM535310
6.4951	11.3750	2.5000			6.7500	10.2500	2.6250		
165.100	215.900	26.195	L433749	L433710	171.450	288.925	63.500	94675	94113
6.5000	8.5000	1.0313			6.7500	11.3750	2.5000		
165.100	225.425	41.275	46790	46720	171.450	288.925	63.500	HM237540	HM237510
6.5000	8.8750	1.6250			6.7500	11.3750	2.5000		
165.100	231.976	45.000	M533349-S	M533310	171.450	336.550	79.375	EE590675	591326
6.5000	9.1329	1.7717			6.7500	13.2500	3.1250		
165.100	247.650	47.625	67780	67720	171.450	355.600	61.909	EE780676	781400
6.5000	9.7500	1.8750			6.7500	14.0000	2.4374		
165.100	254.000	46.037	M235145	M235113	171.450	374.650	87.312	EE117067	117148
6.5000	10.0000	1.8125			6.7500	14.7500	3.4375		
165.100	254.000	46.038	86650	86100	174.625	247.650	47.625	67786	67720
6.5000	10.0000	1.8125			6.8750	9.7500	1.8750		
165.100	260.350	53.975	HM235148	HM235118	174.625	260.350	53.975	M236845	M236810
6.5000	10.2500	2.1250			6.8750	10.2500	2.1250		
165.100	266.700	66.675	HM234648	HM234610	174.625	288.925	63.500	94687	94113
6.5000	10.5000	2.6250			6.8750	11.3750	2.5000		

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BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
174.625 6.8750	288.925 11.3750	63.500 2.5000	HM237542	HM237510	183.000 7.2047	304.800 12.0000	66.675 2.6250	EE280720X	281200
174.625 6.8750	298.450 11.7500	82.550 3.2500	EE219068	219117	184.150 7.2500	234.950 9.2500	34.000 1.3386	LM236749	LM236710
174.625 6.8750	311.150 12.2500	82.550 3.2500	H238148	H238110	184.150 7.2500	236.538 9.3125	26.193 1.0312	LL537649	LL537610
174.625 6.8750	355.600 14.0000	61.909 2.4374	780687	781400	184.150 7.2500	266.700 10.5000	47.625 1.8750	67883	67820
176.212 6.9375	355.600 14.0000	61.909 2.4374	780693	781400	187.325 7.3750	266.700 10.5000	47.625 1.8750	67884	67820
177.292 6.9800	355.600 14.0000	79.375 3.1250	EE607071	607140	187.325 7.3750	269.875 10.6250	55.563 2.1875	M238849	M238810
177.800 7.0000	215.900 8.5000	20.638 .8125	LL735448	LL735410	187.325 7.3750	282.575 11.1250	50.800 2.0000	87737	87111
177.800 7.0000	227.012 8.9375	30.163 1.1875	36990	36920	187.325 7.3750	319.964 12.5970	88.900 3.5000	H239649	H239610
177.800 7.0000	247.650 9.7500	47.625 1.8750	67790	67720	187.630 7.3870	279.400 11.0000	52.387 2.0625	M239441	M239410
177.800 7.0000	260.350 10.2500	53.975 2.1250	M236848	M236810	189.738 7.4700	279.400 11.0000	52.387 2.0625	M239447	M239410
177.800 7.0000	265.112 10.4375	51.595 2.0313	M336946	M336912	190.000 7.4803	290.000 11.4173	64.000 2.5197	X32038XM	Y32038XM
177.800 7.0000	269.875 10.6250	55.563 2.1875	M238840	M238810	190.078 7.4834	266.700 10.5000	47.100 1.8543	67886	67820
177.800 7.0000	279.400 11.0000	61.913 2.4375	82680X	82620	190.475 7.4990	279.400 11.0000	52.387 2.0625	M239449	M239410
177.800 7.0000	285.750 11.2500	63.500 2.5000	EE91702	91112	190.500 7.5000	266.700 10.5000	47.625 1.8750	67885	67820
177.800 7.0000	288.925 11.3750	63.500 2.5000	94700	94113	190.500 7.5000	282.575 11.1250	50.800 2.0000	87750	87111
177.800 7.0000	288.925 11.3750	63.500 2.5000	HM237543	HM237510	190.500 7.5000	288.925 11.3750	55.562 2.1875	82788	82720
177.800 7.0000	304.800 12.0000	66.675 2.6250	EE280702	281200	190.500 7.5000	317.500 12.5000	63.500 2.5000	93750	93125
177.800 7.0000	311.150 12.2500	82.550 3.2500	H238147	H238110	190.500 7.5000	327.025 12.8750	90.487 3.5625	EE470075	470128
177.800 7.0000	319.964 12.5970	88.900 3.5000	EE222070	222126	190.500 7.5000	330.200 13.0000	63.500 2.5000	EE210753	211300
177.800 7.0000	319.964 12.5970	88.900 3.5000	H239640	H239610	190.500 7.5000	336.550 13.2500	98.425 3.8750	HH840249	HH840210
177.800 7.0000	327.025 12.8750	90.487 3.5625	EE470073	470128	190.500 7.5000	355.600 14.0000	79.375 3.1250	EE607075	607140
177.800 7.0000	336.550 13.2500	79.375 3.1250	590900	591326	190.500 7.5000	360.000 14.1732	92.075 3.6250	EE420751	421417
177.800 7.0000	355.600 14.0000	61.909 2.4374	780700	781400	190.500 7.5000	428.625 16.8750	106.362 4.1875	EE350750	351687
177.800 7.0000	355.600 14.0000	79.375 3.1250	EE607070	607140	191.237 7.5290	279.400 11.0000	53.975 2.1250	M239448A	M239410
177.800 7.0000	360.000 14.1732	92.075 3.6250	EE420701	421417	192.088 7.5625	266.700 10.5000	47.625 1.8750	67887	67820
177.800 7.0000	428.625 16.8750	106.362 4.1875	EE350701	351687	193.675 7.6250	282.575 11.1250	50.800 2.0000	87762	87111
178.595 7.0313	265.112 10.4375	51.595 2.0313	M336948	M336912	194.976 7.6762	266.700 10.5000	47.625 1.8750	67888	67820
179.388 7.0625	265.112 10.4375	54.770 2.1563	M336949A	M336912	196.850 7.7500	241.300 9.5000	23.813 .9375	LL639249	LL639210
179.934 7.0840	265.112 10.4375	51.595 2.0313	M336949	M336912	196.850 7.7500	254.000 10.0000	28.575 1.1250	L540049	L540010
179.954 7.0848	288.925 11.3750	62.062 2.4434	HM237546	HM237510	196.850 7.7500	257.175 10.1250	39.688 1.5625	LM739749WE	LM739710
179.974 7.0856	317.500 12.5000	63.500 2.5000	93708	93125	196.850 7.7500	317.500 12.5000	63.500 2.5000	93775	93125
180.000 7.0866	266.700 10.5000	47.100 1.8543	67875	67820	198.298 7.8070	279.400 11.0000	46.038 1.8125	67981	67919
180.000 7.0866	288.925 11.3750	63.500 2.5000	HM237547	HM237510	199.949 7.8720	279.400 11.0000	46.038 1.8125	67982	67919
180.000 7.0866	250.000 9.8425	45.000 1.7717	X32936M	Y32936M	199.974 7.8730	317.500 12.5000	66.675 2.6250	122978	122125
180.000 7.0866	280.000 11.0236	64.000 2.5197	X32036XM	Y32036XM	200.000 7.8740	254.000 10.0000	28.575 1.1250	L540048	L540010

**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
200.000	280.000	51.000	X32940M	Y32940M	209.550	279.400	46.038	67989	67919
7.8740	11.0236	2.0079			8.2500	11.0000	1.8125		
200.000	310.000	70.000	X32040X	Y32040X	209.550	317.500	63.500	93825	93125
7.8740	12.2047	2.7559			8.2500	12.5000	2.5000		
200.025	276.225	42.863	LM241147	LM241110	209.550	333.375	69.850	HM743345	HM743310
7.8750	10.8750	1.6875			8.2500	13.1250	2.7500		
200.025	292.100	57.945	M241542	M241510	209.550	355.600	68.262	96825	96140
7.8750	11.5000	2.2813			8.2500	14.0000	2.6875		
200.025	317.500	63.500	93787	93125	212.725	285.750	46.037	LM742745	LM742710
7.8750	12.5000	2.5000			8.3750	11.2500	1.8125		
200.025	333.375	69.850	HM743337	HM743310	212.725	336.550	65.087	M246932	M246910
7.8750	13.1250	2.7500			8.3750	13.2500	2.5625		
200.025	355.600	69.850	EE130787	131400	215.900	285.750	46.037	LM742748	LM742710
7.8750	14.0000	2.7500			8.5000	11.2500	1.8125		
200.025	384.175	112.712	H247535	H247510	215.900	290.010	31.750	543085	543114
7.8750	15.1250	4.4375			8.5000	11.4177	1.2500		
200.025	393.700	111.125	HH144642	HH144614	215.900	355.600	69.850	EE130851	131400
7.8750	15.5000	4.3750			8.5000	14.0000	2.7500		
200.812	292.100	57.945	M241545	M241510	215.900	360.000	82.550	EE420850	421417
7.9060	11.5000	2.2813			8.5000	14.1732	3.2500		
201.612	360.000	92.075	EE420793	421417	216.408	285.750	46.037	LM742747	LM742710
7.9375	14.1732	3.6250			8.5200	11.2500	1.8125		
203.200	261.142	28.575	LL641149	LL641110	216.713	285.750	46.037	LM742747A	LM742710
8.0000	10.2812	1.1250			8.5320	11.2500	1.8125		
203.200	276.225	42.863	LM241149	LM241110	219.916	399.928	72.000	EE710865	711574
8.0000	10.8750	1.6875			8.6581	15.7452	2.8347		
203.200	279.400	46.038	67983	67919	219.969	290.010	31.750	543086	543114
8.0000	11.0000	1.8125			8.6602	11.4177	1.2500		
203.200	292.100	57.945	M241547	M241510	220.000	300.000	51.000	X32944	Y32944
8.0000	11.5000	2.2813			8.6614	11.8110	2.0079		
203.200	317.500	53.975	EE132083	132125	220.000	340.000	76.000	X32044X	Y32044X
8.0000	12.5000	2.1250			8.6614	13.3858	2.9921		
203.200	317.500	63.500	93800	93125	220.662	314.325	61.912	M244249	M244210
8.0000	12.5000	2.5000			8.6875	12.3750	2.4375		
203.200	317.500	66.675	EE122080	122125	220.878	317.500	47.625	LM245833	LM245810
8.0000	12.5000	2.6250			8.6960	12.5000	1.8750		
203.200	346.075	79.375	HM542948	HM542911	222.250	482.600	117.475	EE380875	380190
8.0000	13.6250	3.1250			8.7500	19.0000	4.6250		
203.200	360.000	92.075	EE420801	421417	223.838	295.275	46.038	LM844049	LM844010
8.0000	14.1732	3.6250			8.8125	11.6250	1.8125		
203.200	399.928	72.000	710800	711574	225.425	355.600	69.850	EE130889	131400
8.0000	15.7452	2.8347			8.8750	14.0000	2.7500		
203.200	406.400	92.075	EE114080	114160	225.425	400.050	88.900	EE430888	431575
8.0000	16.0000	3.6250			8.8750	15.7500	3.5000		
203.200	482.600	117.475	EE380080	380190	227.330	399.928	72.000	EE710905	711574
8.0000	19.0000	4.6250			8.9500	15.7452	2.8347		
203.238	406.400	92.075	EE114081	114160	228.397	431.800	92.075	EE113089	113170
8.0015	16.0000	3.6250			8.9920	17.0000	3.6250		
203.479	261.142	28.575	LL641148	LL641110	228.460	431.800	92.075	EE113091	113170
8.0110	10.2812	1.1250			8.9945	17.0000	3.6250		
203.987	276.225	42.863	LM241148	LM241110	228.600	295.275	33.337	544090	544116
8.0310	10.8750	1.6875			9.0000	11.6250	1.3125		
204.788	292.100	57.945	M241549	M241510	228.600	320.675	50.800	88900	88126
8.0625	11.5000	2.2813			9.0000	12.6250	2.0000		
204.788	317.500	63.500	93806A	93125	228.600	327.025	52.388	8573	8520
8.0625	12.5000	2.5000			9.0000	12.8750	2.0625		
206.375	261.142	28.575	LL641149A	LL641110	228.600	355.600	68.262	96900	96140
8.1250	10.2812	1.1250			9.0000	14.0000	2.6875		
206.375	279.400	46.038	67985	67919	228.600	355.600	69.850	HM746645	HM746610
8.1250	11.0000	1.8125			9.0000	14.0000	2.7500		
206.375	317.500	53.975	EE132084	132125	228.600	355.600	69.850	EE130902	131400
8.1250	12.5000	2.1250			9.0000	14.0000	2.7500		
206.375	317.500	63.500	93812	93125	228.600	358.775	71.437	M249732	M249710
8.1250	12.5000	2.5000			9.0000	14.1250	2.8125		
206.375	336.550	98.425	H242649	H242610	228.600	399.928	72.000	710900	711574
8.1250	13.2500	3.8750			9.0000	15.7452	2.8347		
206.375	360.000	92.075	EE420812X	421417	228.600	400.050	88.900	EE430900	431575
8.1250	14.1732	3.6250			9.0000	15.7500	3.5000		
206.375	482.600	117.475	EE380081	380190	228.600	425.450	101.600	EE700091	700167
8.1250	19.0000	4.6250			9.0000	16.7500	4.0000		

The Bearing Dimension Catalog is not to be used as a design manual.  
The cone bore section does not include all available parts – see series for additional information.



## BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
228.600	488.950	123.825	HH949549	HH949510	247.650	304.800	22.225	28880	28820
9.0000	19.2500	4.8750			9.7500	12.0000	.8750		
228.600	508.000	117.475	EE390090	390200	247.650	346.075	63.500	M348448WS	M348410
9.0000	20.0000	4.6250			9.7500	13.6250	2.5000		
230.188	317.500	47.625	LM245846	LM245810	247.650	355.600	50.800	EE170975	171400
9.0625	12.5000	1.8750			9.7500	14.0000	2.0000		
231.775	268.288	22.500	LL244549	LL244510	247.650	381.000	74.612	M252337	M252310
9.1250	10.5625	.8858			9.7500	15.0000	2.9375		
231.775	295.275	33.337	544091	544116	247.650	406.400	115.888	HH249949	HH249910
9.1250	11.6250	1.3125			9.7500	16.0000	4.5625		
231.775	317.500	47.625	LM245848	LM245810	249.250	381.000	79.375	EE126098	126150
9.1250	12.5000	1.8750			9.8130	15.0000	3.1250		
231.775	336.550	65.087	M246942	M246910	253.975	324.950	39.000	L848848XX	L848810
9.1250	13.2500	2.5625			9.9990	12.7933	1.5354		
231.775	358.775	71.437	M249734	M249710	254.000	315.912	31.750	LL648448W	LL648415
9.1250	14.1250	2.8125			10.0000	12.4375	1.2500		
231.775	377.825	79.375	HM647448	HM647411	254.000	323.850	22.224	29875	29820
9.1250	14.8750	3.1250			10.0000	12.7500	.8750		
231.775	384.175	112.712	H247545WS	H247510	254.000	358.775	71.437	M249749	M249710
9.1250	15.1250	4.4375			10.0000	14.1250	2.8125		
234.848	314.325	49.212	LM545848	LM545810	254.000	365.125	58.738	EE134100	134143
9.2460	12.3750	1.9375			10.0000	14.3750	2.3125		
234.950	311.150	46.037	LM446349	LM446310	254.000	393.700	73.817	EE275100	275155
9.2500	12.2500	1.8125			10.0000	15.5000	2.9062		
234.950	314.325	49.212	LM545849	LM545810	254.000	400.050	57.150	EE251001	251575
9.2500	12.3750	1.9375			10.0000	15.7500	2.2500		
234.950	320.675	50.800	88925	88126	254.000	422.275	86.121	HM252343	HM252310
9.2500	12.6250	2.0000			10.0000	16.6250	3.3906		
234.950	327.025	52.388	8574	8520	254.000	444.500	76.200	EE822100	822175
9.2500	12.8750	2.0625			10.0000	17.5000	3.0000		
234.950	355.600	68.262	96925	96140	254.000	495.300	76.200	EE941002	941950
9.2500	14.0000	2.6875			10.0000	19.5000	3.0000		
234.950	381.000	74.612	M252330	M252310	254.000	495.300	141.287	HH258232	HH258210
9.2500	15.0000	2.9375			10.0000	19.5000	5.5625		
234.950	384.175	112.712	H247548	H247510	254.000	533.400	133.350	HH953749	HH953710
9.2500	15.1250	4.4375			10.0000	21.0000	5.2500		
235.077	314.325	49.212	LM545847	LM545810	254.000	558.800	123.825	EE620100	620220
9.2550	12.3750	1.9375			10.0000	22.0000	4.8750		
235.331	336.550	65.087	M246947	M246910	255.600	342.900	57.150	M349546XX	M349510
9.2650	13.2500	2.5625			10.0630	13.5000	2.2500		
236.538	320.675	44.450	88931	88126	257.175	342.900	57.150	M349549	M349510
9.3125	12.6250	1.7500			10.1250	13.5000	2.2500		
237.330	336.550	65.087	M246948	M246910	257.175	358.775	71.437	M249747	M249710
9.3437	13.2500	2.5625			10.1250	14.1250	2.8125		
237.330	358.775	71.437	M249736	M249710	258.763	400.050	69.850	EE221018	221575
9.3437	14.1250	2.8125			10.1875	15.7500	2.7500		
240.000	360.000	76.000	X32048X	Y32048X	260.350	365.125	58.738	EE134102	134143
9.4488	14.1732	2.9921			10.2500	14.3750	2.3125		
241.122	368.300	68.262	EE125094	125145	260.350	400.050	69.850	EE221026	221575
9.4930	14.5000	2.6875			10.2500	15.7500	2.7500		
241.300	327.025	52.388	8578	8520	260.350	406.400	69.850	EE128102	128160
9.5000	12.8750	2.0625			10.2500	16.0000	2.7500		
241.300	349.148	57.150	EE127095	127135	260.350	419.100	85.725	EE435102	435165
9.5000	13.7460	2.2500			10.2500	16.5000	3.3750		
241.300	355.600	50.800	EE170950	171400	260.350	422.275	86.121	HM252348	HM252310
9.5000	14.0000	2.0000			10.2500	16.6250	3.3906		
241.300	368.300	68.262	EE125095	125145	260.350	488.950	120.650	EE295102	295193
9.5000	14.5000	2.6875			10.2500	19.2500	4.7500		
241.300	393.700	73.817	EE275095	275155	262.974	355.600	57.150	LM451344	LM451310
9.5000	15.5000	2.9062			10.3533	14.0000	2.2500		
241.300	444.500	101.600	EE923095	923175	263.525	325.438	28.575	38880	38820
9.5000	17.5000	4.0000			10.3750	12.8125	1.1250		
241.300	488.950	120.650	EE295950	295193	263.525	355.600	57.150	LM451345	LM451310
9.5000	19.2500	4.7500			10.3750	14.0000	2.2500		
241.300	508.000	117.475	EE390095	390200	264.975	352.425	36.513	L853042	L853010
9.5000	20.0000	4.6250			10.4321	13.8750	1.4375		
243.682	315.912	31.750	LL648434	LL648415	264.975	355.600	57.150	LM451347	LM451310
9.5938	12.4375	1.2500			10.4321	14.0000	2.2500		
244.475	381.000	79.375	EE126097	126150	266.560	325.438	29.500	38884	38820
9.6250	15.0000	3.1250			10.4945	12.8125	1.1614		

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
266.560	325.438	29.500	LL450748A	38820	298.450	431.800	69.850	EE111175	111700
10.4945	12.8125	1.1614			11.7500	17.0000	2.7500		
266.700	323.850	22.224	29880	29820	298.450	444.500	63.500	EE291175	291749
10.5000	12.7500	.8750			11.7500	17.5000	2.5000		
266.700	325.438	28.575	38885	38820	299.974	495.300	141.287	HH258248	HH258210
10.5000	12.8125	1.1250			11.8100	19.5000	5.5625		
266.700	325.438	29.500	LL450749	38820	300.000	420.000	76.000	X32960	Y32960
10.5000	12.8125	1.1614			11.8110	16.5354	2.9921		
266.700	355.600	57.150	LM451349	LM451310	300.038	422.275	82.550	HM256849	HM256810
10.5000	14.0000	2.2500			11.8125	16.6250	3.2500		
266.700	393.700	73.817	EE275105	275155	304.800	393.700	50.800	L357049	L357010
10.5000	15.5000	2.9062			12.0000	15.5000	2.0000		
266.700	444.500	120.650	H852849	H852810	304.800	406.400	63.500	LM757049	LM757010
10.5000	17.5000	4.7500			12.0000	16.0000	2.5000		
269.875	381.000	74.612	M252349	M252310	304.800	438.048	76.200	EE129120X	129172
10.6250	15.0000	2.9375			12.0000	17.2460	3.0000		
273.050	323.850	22.224	29888	29820	304.800	444.500	63.500	EE291201	291749
10.7500	12.7500	.8750			12.0000	17.5000	2.5000		
273.050	393.700	73.817	EE275108	275155	304.800	488.950	92.075	EE724119	724191
10.7500	15.5000	2.9062			12.0000	19.2500	3.6250		
275.000	352.425	36.513	L853048	L853010	304.800	495.300	76.200	EE941205	941950
10.8268	13.8750	1.4375			12.0000	19.5000	3.0000		
276.225	352.425	36.513	L853049	L853010	304.800	499.948	101.600	M959442	M959410
10.8750	13.8750	1.4375			12.0000	19.6830	4.0000		
279.400	317.500	22.860	LL352148	LL352110	304.800	546.100	159.128	HH159849E	HH159810
11.0000	12.5000	.9000			12.0000	21.5000	6.2649		
279.400	374.650	47.625	L555233	L555210	304.800	558.800	136.525	EE790120	790221
11.0000	14.7500	1.8750			12.0000	22.0000	5.3750		
279.400	469.900	95.250	EE722110	722185	304.800	647.700	139.700	EE991201	992550
11.0000	18.5000	3.7500			12.0000	25.5000	5.5000		
279.400	488.950	120.650	EE295110	295193	305.054	406.400	63.500	LM757049A	LM757010
11.0000	19.2500	4.7500			12.0100	16.0000	2.5000		
279.400	520.700	120.650	EE296110	296204	312.738	358.775	22.225	LL957049	LL957010
11.0000	20.5000	4.7500			12.3125	14.1250	.8750		
279.982	380.898	65.088	LM654642	LM654610	314.325	447.675	85.725	HM259047WS	HM259010
11.0229	14.9960	2.5625			12.3750	17.6250	3.3750		
280.000	406.400	69.850	EE128112	128160	314.325	495.300	120.650	H859049	H859010
11.0236	16.0000	2.7500			12.3750	19.5000	4.7500		
280.192	400.050	52.387	EE101103	101575	317.500	444.500	63.500	EE291250	291749
11.0312	15.7500	2.0625			12.5000	17.5000	2.5000		
280.192	406.400	69.850	EE128110	128160	317.500	447.675	85.725	HM259048	HM259010
11.0312	16.0000	2.7500			12.5000	17.6250	3.3750		
282.575	393.700	63.500	84111W	84155	317.500	457.200	66.675	EE201250	201800
11.1250	15.5000	2.5000			12.5000	18.0000	2.6250		
285.750	323.850	20.638	LL353249	LL353210	317.500	596.900	136.525	EE720125	720236
11.2500	12.7500	.8125			12.5000	23.5000	5.3750		
285.750	354.012	33.337	545112	545139	317.500	622.300	147.638	H961649	H961610
11.2500	13.9375	1.3125			12.5000	24.5000	5.8125		
285.750	380.898	65.088	LM654649	LM654610	317.500	647.700	139.700	EE991251	992550
11.2500	14.9960	2.5625			12.5000	25.5000	5.5000		
285.750	469.900	81.770	EE921124	921850	320.000	480.000	100.000	X32064X	Y32064X
11.2500	18.5000	3.2193			12.5984	18.8976	3.9370		
285.750	520.700	120.650	EE296112	296204	320.675	406.400	50.800	L558548	L558510
11.2500	20.5000	4.7500			12.6250	16.0000	2.0000		
288.925	406.400	77.787	M255448	M255410	320.675	546.100	114.300	EE298128	298216
11.3750	16.0000	3.0625			12.6250	21.5000	4.5000		
289.974	393.700	50.800	L357040	L357010	323.850	381.000	28.575	LL758744	LL758715
11.4163	15.5000	2.0000			12.7500	15.0000	1.1250		
292.100	374.650	47.625	L555249	L555210	323.850	422.275	58.738	LM559048	LM559010
11.5000	14.7500	1.8750			12.7500	16.6250	2.3125		
292.100	393.700	63.500	84115	84155	325.438	596.900	136.525	EE720128	720236
11.5000	15.5000	2.5000			12.8125	23.5000	5.3750		
292.100	469.900	95.250	EE722115	722185	329.870	533.400	76.200	EE971298	972100
11.5000	18.5000	3.7500			12.9870	21.0000	3.0000		
292.100	508.000	123.032	EE224115	224199	329.895	415.925	47.625	L860049A	L860010
11.5000	20.0000	4.8438			12.9880	16.3750	1.8750		
292.100	520.700	114.300	EE296115	296204	330.200	415.925	47.625	L860048	L860010
11.5000	20.5000	4.5000			13.0000	16.3750	1.8750		
292.100	558.800	136.525	EE790114	790221	330.200	469.900	60.325	EE161300	161850
11.5000	22.0000	5.3750			13.0000	18.5000	2.3750		

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# BEARING DIMENSIONS BY CONE BORE

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
330.200 13.0000	482.600 19.0000	66.675 2.6250	EE203130	203190	381.000 15.0000	590.550 23.2500	114.300 4.5000	M268730	M268710
330.200 13.0000	482.600 19.0000	85.725 3.3750	EE526130	526190	384.175 15.1250	441.325 17.3750	28.575 1.1250	LL365347	LL365310
333.000 13.1102	415.925 16.3750	47.625 1.8750	L860049AA	L860010	384.175 15.1250	546.100 21.5000	104.775 4.1250	HM266448	HM266410
333.375 13.1250	469.900 18.5000	90.487 3.5625	HM261049	HM261010	385.762 15.1875	514.350 20.2500	82.550 3.2500	LM665949	LM665910
338.138 13.3125	403.225 15.8750	33.338 1.3125	LL660749A	LL660711	387.248 15.2460	546.100 21.5000	87.312 3.4375	M667935	M667910
342.900 13.5000	450.850 17.7500	66.673 2.6249	LM361649	LM361610	393.700 15.5000	546.100 21.5000	76.200 3.0000	EE234154	234215
342.900 13.5000	457.098 17.9960	66.675 2.6250	LM961548	LM961510	396.875 15.6250	546.100 21.5000	76.200 3.0000	EE234156	234215
342.900 13.5000	533.400 21.0000	76.200 3.0000	EE971354	972100	396.875 15.6250	549.275 21.6250	85.725 3.3750	LM567943	LM567910
343.154 13.5100	450.850 17.7500	66.673 2.6249	LM361649A	LM361610	403.225 15.8750	460.375 18.1250	28.575 1.1250	LL566848	LL566810
346.075 13.6250	469.900 18.5000	60.325 2.3750	EE161363	161850	406.400 16.0000	508.000 20.0000	61.912 2.4375	L467549	L467510
346.075 13.6250	482.600 19.0000	66.675 2.6250	EE203136	203190	406.400 16.0000	546.100 21.5000	76.200 3.0000	EE234160	234215
346.075 13.6250	488.950 19.2500	95.250 3.7500	HM262748	HM262710	406.400 16.0000	546.100 21.5000	87.312 3.4375	M667944	M667910
349.250 13.7500	501.650 19.7500	90.488 3.5625	EE333137	333197	406.400 16.0000	549.275 21.6250	85.725 3.3750	LM567949	LM567910
354.012 13.9375	469.900 18.5000	60.325 2.3750	EE161394	161850	406.400 16.0000	574.675 22.6250	76.200 3.0000	EE285160	285226
355.600 14.0000	444.500 17.5000	60.325 2.3750	L163149	L163110	406.400 16.0000	590.550 23.2500	107.950 4.2500	EE833160X	833232
355.600 14.0000	469.900 18.5000	60.325 2.3750	EE161400	161850	406.400 16.0000	609.524 23.9970	87.312 3.4375	EE736160	736237
355.600 14.0000	501.650 19.7500	74.612 2.9375	EE231400	231975	406.400 16.0000	609.600 24.0000	92.075 3.6250	EE911600	912400
355.600 14.0000	501.650 19.7500	90.488 3.5625	EE333140	333197	406.400 16.0000	673.100 26.5000	88.900 3.5000	EE571602	572650
355.600 14.0000	673.100 26.5000	152.400 6.0000	EE121140	121265	406.400 16.0000	762.000 30.0000	180.975 7.1250	H969249	H969210
360.000 14.1732	480.000 18.8976	76.500 3.0118	X32972	Y32972	409.575 16.1250	546.100 21.5000	87.312 3.4375	M667947	M667910
361.950 14.2500	401.638 15.8125	21.430 .8437	LL762648	LL762610	409.575 16.1250	574.675 22.6250	76.200 3.0000	EE285162	285226
361.950 14.2500	406.400 16.0000	23.813 .9375	LL562749	LL562710	409.575 16.1250	590.550 23.2500	114.300 4.5000	M268744WS	M268710
368.249 14.4980	523.875 20.6250	101.600 4.0000	HM265049	HM265010	409.575 16.1250	635.000 25.0000	120.650 4.7500	M270730	M270710
368.300 14.5000	596.900 23.5000	95.250 3.7500	EE181453	182350	411.162 16.1875	609.600 24.0000	92.075 3.6250	EE911618	912400
368.300 14.5000	609.600 24.0000	142.875 5.6250	EE321145	321240	415.925 16.3750	590.550 23.2500	114.300 4.5000	M268749	M268710
371.475 14.6250	501.650 19.7500	74.612 2.9375	EE231462	231975	422.750 16.6437	476.250 18.7500	22.225 .8750	EL268247H	EL268210
374.650 14.7500	431.800 17.0000	28.575 1.1250	LL264648	LL264610	425.450 16.7500	590.550 23.2500	95.250 3.7500	M268749CR	M268710
374.650 14.7500	522.287 20.5625	85.724 3.3750	LM565943	LM565910	425.450 16.7500	685.698 26.9960	142.875 5.6250	EE328167	328269
377.825 14.8750	508.000 20.0000	63.500 2.5000	EE192148	192200	427.038 16.8125	533.400 21.0000	50.800 2.0000	L269140	L269110
377.825 14.8750	522.287 20.5625	85.724 3.3750	LM565946	LM565910	430.212 16.9375	603.250 23.7500	76.200 3.0000	EE241693	242375
377.825 14.8750	546.100 21.5000	104.775 4.1250	HM266444WS	HM266410	431.800 17.0000	533.400 21.0000	46.038 1.8125	80385	80325
381.000 15.0000	479.425 18.8750	49.213 1.9375	L865547	L865512	431.800 17.0000	533.400 21.0000	50.800 2.0000	L269143	L269110
381.000 15.0000	508.000 20.0000	63.500 2.5000	EE192150	192200	431.800 17.0000	552.450 21.7500	44.448 1.7499	80170	80217
381.000 15.0000	522.287 20.5625	85.724 3.3750	LM565949	LM565910	431.800 17.0000	571.500 22.5000	73.025 2.8750	EE239170	239225
381.000 15.0000	546.100 21.5000	104.775 4.1250	HM266446	HM266410	431.800 17.0000	571.500 22.5000	74.612 2.9375	LM869448	LM869410

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**BEARING DIMENSIONS BY CONE BORE**

BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
431.800	603.250	76.200	EE241701	242375	514.350	736.600	88.900	EE982028	982900
17.0000	23.7500	3.0000			20.2500	29.0000	3.5000		
431.800	673.100	88.900	EE571703	572650	520.700	736.600	88.900	EE982051	982900
17.0000	26.5000	3.5000			20.5000	29.0000	3.5000		
431.902	685.698	177.800	EE650170	650270	533.400	635.000	50.800	LL575343	LL575310
17.0040	26.9960	7.0000			21.0000	25.0000	2.0000		
433.388	485.775	27.783	EL768949	EL768910	533.400	784.225	88.900	EE522102	523087
17.0625	19.1250	1.0938			21.0000	30.8750	3.5000		
441.325	660.400	91.280	EE737173	737260	536.575	761.873	146.050	M276449	M276410
17.3750	26.0000	3.5937			21.1250	29.9950	5.7500		
444.500	635.000	120.650	M270744	M270710	539.750	635.000	50.800	LL575349	LL575310
17.5000	25.0000	4.7500			21.2500	25.0000	2.0000		
447.675	552.450	44.448	80176	80217	546.100	736.600	76.200	EE542215	542290
17.6250	21.7500	1.7499			21.5000	29.0000	3.0000		
447.675	552.450	44.450	LL469949	LL469910	549.097	692.150	80.962	L476548	L476510
17.6250	21.7500	1.7500			21.6180	27.2500	3.1875		
447.675	635.000	120.650	M270749	M270710	549.275	603.250	27.782	EL875849	EL875810
17.6250	25.0000	4.7500			21.6250	23.7500	1.0938		
450.850	603.250	85.725	LM770945	LM770910	549.275	692.150	80.962	L476549	L476510
17.7500	23.7500	3.3750			21.6250	27.2500	3.1875		
456.794	761.873	142.875	EE425179A	425299	558.800	660.400	50.000	LL876449	LL876410
17.9840	29.9950	5.6250			22.0000	26.0000	1.9685		
457.073	573.088	74.613	L570648	L570610	558.800	723.900	73.025	EE647220	647285
17.9950	22.5625	2.9375			22.0000	28.5000	2.8750		
457.200	552.450	44.448	80180	80217	558.800	736.600	76.200	EE542220	542290
18.0000	21.7500	1.7499			22.0000	29.0000	3.0000		
457.200	573.088	74.613	L570649	L570610	558.800	736.600	88.106	EE843220	843290
18.0000	22.5625	2.9375			22.0000	29.0000	3.4687		
457.200	596.900	76.200	EE244180	244235	558.800	736.600	104.775	LM377448	LM377410
18.0000	23.5000	3.0000			22.0000	29.0000	4.1250		
457.200	603.250	85.725	LM770949	LM770910	558.800	901.573	134.938	EE327220	327355
18.0000	23.7500	3.3750			22.0000	35.4950	5.3125		
457.200	615.950	85.725	LM272235	LM272210	571.500	660.400	46.037	LL777148	LL777110
18.0000	24.2500	3.3750			22.5000	26.0000	1.8125		
457.200	660.400	91.280	EE737181	737260	571.500	812.800	155.575	M278749	M278710
18.0000	26.0000	3.5937			22.5000	32.0000	6.1250		
457.200	730.148	120.650	671800	672873	584.200	685.800	49.213	LL778149	LL778110
18.0000	28.7460	4.7500			23.0000	27.0000	1.9375		
463.550	622.300	101.206	LM671644	LM671610	584.200	709.612	58.737	L778149	L778110
18.2500	24.5000	3.9845			23.0000	27.9375	2.3125		
476.250	565.150	41.275	LL771948	LL771911	584.200	762.000	107.155	LM778549	LM778510
18.7500	22.2500	1.6250			23.0000	30.0000	4.2187		
479.425	679.450	128.587	M272749	M272710	584.200	901.700	150.021	EE662303	663550
18.8750	26.7500	5.0625			23.0000	35.5000	5.9063		
482.600	596.900	53.975	80480	80418	585.788	771.525	124.998	LM278849	LM278810
19.0000	23.5000	2.1250			23.0625	30.3750	4.9212		
482.600	615.950	85.725	LM272249	LM272210	596.900	685.800	31.750	680235	680270
19.0000	24.2500	3.3750			23.5000	27.0000	1.2500		
482.600	634.873	80.963	EE243190	243250	602.945	787.400	93.663	EE649236X	649310
19.0000	24.9950	3.1875			23.7380	31.0000	3.6875		
488.671	660.400	93.662	EE640191	640260	607.720	787.400	93.663	EE649239	649310
19.2390	26.0000	3.6875			23.9260	31.0000	3.6875		
488.950	634.873	84.138	LM772748	LM772710	609.346	787.400	93.663	EE649238	649310
19.2500	24.9950	3.3125			23.9900	31.0000	3.6875		
488.950	660.400	93.662	EE640192	640260	609.397	762.000	95.250	L879946	L879910
19.2500	26.0000	3.6875			23.9920	30.0000	3.7500		
489.026	634.873	80.963	EE243192	243250	609.600	762.000	95.250	L879947	L879910
19.2530	24.9950	3.1875			24.0000	30.0000	3.7500		
498.323	634.873	80.963	EE243197	243250	609.600	774.700	85.725	L580049	L580010
19.6190	24.9950	3.1875			24.0000	30.5000	3.3750		
498.475	634.873	80.963	EE243195	243250	609.600	787.400	93.663	EE649240	649310
19.6250	24.9950	3.1875			24.0000	31.0000	3.6875		
501.650	596.900	53.975	80487	80418	609.600	812.800	82.550	EE743240	743320
19.7500	23.5000	2.1250			24.0000	32.0000	3.2500		
501.650	711.200	136.525	M274149	M274110	615.950	708.025	41.275	LL580049	LL580010
19.7500	28.0000	5.3750			24.2500	27.8750	1.6250		
508.000	736.600	88.900	EE982003	982900	635.000	736.600	57.150	80780	80720
20.0000	29.0000	3.5000			25.0000	29.0000	2.2500		
508.000	838.200	146.050	EE426200	426330	635.000	933.450	179.387	M281635	M281610
20.0000	33.0000	5.7500			25.0000	36.7500	7.0625		

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BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP	BORE d	OUTSIDE DIAMETER D	WIDTH T	CONE	CUP
646.112 25.4375	857.250 33.7500	141.288 5.5625	LM281049	LM281010	889.000 35.0000	1123.950 44.2500	120.650 4.7500	EE158350	158442
660.235 25.9935	812.800 32.0000	95.250 3.7500	L281146	L281110	939.800 37.0000	1193.800 47.0000	101.600 4.0000	LL787840	LL787815
660.400 26.0000	812.800 32.0000	95.250 3.7500	L281147	L281110	950.000 37.4016	1270.000 50.0000	158.000 6.2205	L687645	L687619X
660.400 26.0000	854.923 33.6584	85.113 3.3509	EE749260	749334	977.900 38.5000	1130.300 44.5000	66.675 2.6250	LL687949	LL687910
660.400 26.0000	930.275 36.6250	149.225 5.8750	LM282534	LM282510	1014.412 39.9375	1270.000 50.0000	101.600 4.0000	EE168399	168500
660.400 26.0000	939.800 37.0000	136.525 5.3750	EE538260	538370	1016.000 40.0000	1270.000 50.0000	101.600 4.0000	EE168400	168500
673.100 26.5000	793.750 31.2500	66.675 2.6250	LL481448	LL481411	1063.625 41.8750	1219.200 48.0000	65.088 2.5625	LL788345	LL788310
679.450 26.7500	901.700 35.5000	142.875 5.6250	LM281849	LM281810	1066.800 42.0000	1219.200 48.0000	65.088 2.5625	LL788349	LL788310
682.625 26.8750	965.200 38.0000	185.737 7.3125	M282247	M282210	1066.800 42.0000	1320.800 52.0000	95.250 3.7500	EE776420	776520
682.625 26.8750	1035.050 40.7500	198.438 7.8125	M283433	M283410	1092.200 43.0000	1320.800 52.0000	95.250 3.7500	EE776430	776520
685.800 27.0000	876.300 34.5000	93.662 3.6875	EE655270	655345	1155.700 45.5000	1435.100 56.5000	121.030 4.7650	EE277455	277565
698.500 27.5000	819.150 32.2500	63.500 2.5000	LL382149	LL382110	1270.000 50.0000	1435.100 56.5000	69.850 2.7500	LL889049	LL889010
708.025 27.8750	930.275 36.6250	146.050 5.7500	LM282548X	LM282510	1346.200 53.0000	1574.800 62.0000	98.425 3.8750	EE188530	188621
709.976 27.9518	899.924 35.4301	110.000 4.3307	L882449	L882410	1562.100 61.5000	1806.575 71.1250	127.000 5.0000	EE299615	299711
711.200 28.0000	914.400 36.0000	85.725 3.3750	EE755280	755360	1689.100 66.5000	1844.675 72.6250	68.262 2.6875	LL789749	LL789710
719.930 28.3437	914.400 36.0000	84.137 3.3125	EE755282	755360					
723.900 28.5000	914.400 36.0000	84.137 3.3125	EE755285	755360					
736.600 29.0000	825.500 32.5000	31.750 1.2500	LL582949	LL582910					
749.300 29.5000	965.200 38.0000	93.663 3.6875	EE752295	752380					
749.300 29.5000	990.600 39.0000	159.500 6.2795	LM283649	LM283610					
758.825 29.8750	901.700 35.5000	66.675 2.6250	LL783647	LL783610					
759.925 29.9183	889.000 35.0000	69.849 2.7500	LL483448	LL483418					
759.925 29.9183	889.000 35.0000	88.900 3.5000	L183448	L183410					
762.000 30.0000	889.000 35.0000	69.849 2.7500	LL483449	LL483418					
762.000 30.0000	889.000 35.0000	69.850 2.7500	EE175300	175350					
762.000 30.0000	889.000 35.0000	88.900 3.5000	L183449	L183410					
762.000 30.0000	901.700 35.5000	66.675 2.6250	LL783649	LL783610					
762.000 30.0000	965.200 38.0000	93.663 3.6875	EE752300	752380					
774.700 30.5000	965.200 38.0000	93.663 3.6875	EE752305	752380					
801.688 31.5625	914.400 36.0000	58.738 2.3125	LL584449	LL584410					
825.500 32.5000	1041.400 41.0000	93.662 3.6875	EE763325	763410					
836.612 32.9375	1041.400 41.0000	93.662 3.6875	EE763329	763410					
838.200 33.0000	1041.400 41.0000	93.662 3.6875	EE763330	763410					
857.250 33.7500	1092.200 43.0000	120.650 4.7500	EE157337	157430					
863.600 34.0000	1130.300 44.5000	174.625 6.8750	LM286249	LM286210					

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The Timken Company has created a family of literature to assist customers in specifying the appropriate bearing for each application and then maximizing its useful life. To assist that effort, reference material has been developed to help bearing selection for a market segment's specific needs, to implement proper maintenance practices and to utilize the full spectrum of design and service solutions.

Please contact your Timken sales representative to receive copies of the following literature:

#### **MARKET SPECIFIC LITERATURE**

- The Right Solution for the Rolling Mill Industry
- Precision Tapered Roller Bearings for Machine Tools
- Tapered Roller Bearings for Printing Presses

#### **MAINTENANCE LITERATURE**

- Bearing Maintenance Manual for Transportation Applications
- Bearing Maintenance Manual for Mobile Industrial Equipment
- Bearing Maintenance Manual for General Industrial Equipment
- Bearing Damage Analysis Poster
- Maintaining Quality on TQO Bearings

#### **PRODUCT-SPECIFIC LITERATURE**

- Aircraft Landing Wheel Bearings
- AP Bearings for Industrial Applications
- AquaSpexx Corrosion-Resistant Bearings
- Bearings Plus Service Kits
- Debris-Resistant Bearings
- Precision Crossed Roller Bearings
- Spexx Performance Bearings
- TNASWH Bearings
- Thrust Bearings

#### **LITERATURE ON TIMKEN SERVICES**

- Bearing Express
- Gear Express
- Industrial Bearing Services
- Mill Express
- Spacer Assembly Value Express (SAVE)