

## Bearing Selection by Bore Size

The Bearing Selection Chart by bore size is an aid to the design engineer in selecting the best single row bearing for the application. This chart identifies the minimum bearing outside diameter and minimum bearing width available in each series. This will aid in selecting a bearing where space is limited.

The bearing bore is normally selected for an application according to the required shaft size. After the design engineer has established the bearing bore size, this chart will identify all bearing series which include the required bore size plus information on the "K" factor and dynamic radial rating to assist in making the final bearing selection. This chart also refers to the page number where the detailed information about bearings in each series can be found. NTN Sales is available to assist in making the most economical bearing selection.

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
1.3125	1.1250	3.1250	1.0000	4190	0.87	43000	151
33.338	28.575	79.375	25.400	18600			
1.3750		3.0000	1.1563	5390	1.67	36000	149
34.925		76.200	29.370	24000			
1.4375	1.3125	3.0000	1.1563	5110	1.45	31500	147
36.512	33.338	76.200	29.370	22700			
1.4375	1.2500	3.0000	1.1563	5030	1.07	HM89400	162
36.512	31.750	76.200	29.370	22400			
1.4375		3.1250	1.1563	5720	1.07	HM89200	162
36.512		79.375	29.370	25400			
1.5000	1.2500	3.1250	1.1563	5650	1.60	3400	135
38.100	31.750	79.375	29.370	25100			
1.5000		3.1510	0.9688	4210	1.04	27800	145
38.100		80.035	24.608	18700			
1.5625	1.3125	2.8750	0.9375	4690	1.93	2700	133
39.688	33.338	73.025	23.812	20800			
1.5625	1.3750	3.0525	1.1563	6200	2.14	3300	134
39.688	34.925	77.534	29.370	27600			
1.5748	1.5000	3.0000	0.8125	3430	1.45	28000	145
40.000	38.100	76.200	20.638	15200			
1.5938	1.5000	3.2500	1.1563	5540	1.07	HM801300	192
40.483	38.100	82.550	29.370	24600			
1.6250		3.0000	0.7090	2600	1.20	11000	141
41.275		76.200	18.009	11500			
1.6250		3.0000	0.8750	4080	1.49	24700	143
41.275		76.200	22.225	18100			
1.6250		3.2500	1.0450	4950	1.07	M802000	192
41.275		82.550	26.543	22000			

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
1.6250	1.3750	3.3750	1.1875	6710	1.45	3800	136
41.275	34.925	85.725	30.162	29800			
1.6250	1.3125	3.4843	1.0000	4540	0.75	44000	151
41.275	33.338	88.500	25.400	20200			
1.6250	1.5000	3.4843	1.0625	6240	2.22	415	123
41.275	38.100	88.500	26.988	27800			
1.6250		3.6250	1.0313	4620	0.70	M903300	197
41.275		92.075	26.195	20500			
1.6563	1.5000	3.5625	1.5625	9040	2.05	4300	137
42.070	38.100	90.488	39.688	40200			
1.6875		3.2500	0.7812	3530	1.36	22000	143
42.862		82.550	19.842	15700			
1.6875		3.2500	1.0313	5010	1.45	22700	143
42.862		82.550	26.195	22300			
1.6880	1.3780	3.0000	0.9375	4920	1.83	26800	144
42.875	35.000	76.200	23.812	21900			
1.6880	1.3780	3.1496	0.8268	4290	2.14	335	120
42.875	35.000	80.000	21.000	19100			
1.7500	1.6875	3.0312	0.6875	2670	1.15	12000	142
44.450	42.862	76.992	17.462	11900			
1.7500		3.2650	0.8750	4470	1.96	35000	149
44.450		82.931	22.225	19900			
1.7500	1.6250	3.5000	1.1875	6140	1.07	HM803100	192
44.450	41.275	88.900	30.162	27300			
1.7500		3.6875	1.2500	7320	1.62	49000	154
44.450		93.662	31.750	32600			
1.7500	1.6250	3.6875	1.2500	6980	1.45	46000	152
44.450	41.275	93.662	31.750	31000			
1.7500	1.5000	3.7500	1.2188	5410	0.79	53000	155
44.450	38.100	95.250	30.958	24000			
1.7712	1.6250	3.7500	1.2188	6210	0.79	HM903200	197
44.988	41.275	95.250	30.958	27600			
1.7712		4.1333	1.2800	7270	0.75	HM905800	197
44.988		104.986	32.512	32300			
1.7717		3.7402	1.1417	5390	0.67	JW4500	137
45.000		95.000	29.000	24000			
1.7810	1.5000	3.3125	1.1875	6120	1.91	3500	135
45.237	38.100	84.138	30.162	27200			
1.7812		3.0625	0.7812	3470	1.37	LM603000	185
45.242		77.788	19.842	15500			
1.8125	1.7500	3.1250	0.6875	2810	1.56	18600	143
46.038	44.450	79.375	17.462	12500			
1.8125	1.7500	3.1875	0.7500	2740	1.11	113000	142
46.038	44.450	80.862	19.050	12200			
1.8125	1.4375	3.2500	0.9375	4880	1.74	25500	143
46.038	40.000	85.000	20.638	21700			
1.8125	1.5748	3.3465	0.8125	4420	1.91	355	120
46.038	40.000	85.000	20.638	19600			
1.8125		3.3465	1.0000	5040	1.69	2900	134
46.038		85.000	25.400	22400			
1.8125	1.3750	3.7500	1.0938	6850	2.05	435	123
46.038	34.925	95.250	27.783	30500			

# Tapered Roller Bearings

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
1.8750 47.625		3.5000 88.900	1.0000 25.400	5320 23700	1.07	M804000	193
1.9060 48.412	1.6250 41.275	3.7500 95.250	1.1875 30.162	6710 29900	1.07	HM804800	193
1.9375 49.212	1.7500 44.450	4.0625 103.188	1.7188 43.658	11500 51000	1.97	5300	137
1.9680 49.987	1.9375 49.212	4.5000 114.300	1.7500 44.450	13300 59000	1.45	HH506300	181
1.9685 50.000		3.3071 84.000	0.8661 22.000	4390 19500	1.34	LM704600	187
1.9685 50.000		3.5433 90.000	1.1024 28.000	6670 29700	1.78	M205100	168
1.9685 50.000		4.1339 105.000	1.2598 32.000	6440 28700	0.67	JW5000	137
2.0000 50.800		3.0625 77.788	0.5000 12.700	2010 8960	1.74	LL205400	168
2.0000 50.800		3.1875 80.962	0.7188 18.258	3280 14600	1.64	L305600	177
2.0000 50.800	1.9680 49.987	3.2283 82.000	0.8313 21.115	4390 19500	1.91	LM104900	165
2.0000 50.800		3.3465 85.000	0.6875 17.462	2950 13100	1.44	18700	143
2.0000 50.800		3.3750 85.725	0.7500 19.050	2780 12400	1.03	18000	143
2.0000 50.800		3.6718 93.264	0.8125 20.638	4750 21100	1.73	375	121
2.0000 50.800	1.7500 44.450	4.0000 101.600	1.2500 31.750	7160 31900	1.46	49500	154
2.0000 50.800	1.5000 38.100	4.0000 101.600	1.3750 34.925	8880 39500	2.05	525	125
2.0000 50.800	1.6250 41.275	4.1250 14.775	1.4375 36.512	9210 41000	1.45	59000	156
2.0000 50.800		4.3750 111.125	1.1875 30.162	6640 29500	0.66	HM907600	197
2.0000 50.800	1.7500 44.450	4.5000 114.300	1.7500 44.450	12100 53700	1.36	65300	157
2.0312 51.592	1.6250 41.275	3.5000 88.900	0.7874 20.000	4640 20600	1.83	365	121
2.0625 52.388	1.9680 49.987	3.5425 89.980	0.9688 24.608	5340 23700	1.55	28500	145
2.0625 52.388	1.7500 44.450	3.6718 93.264	1.1875 30.162	6590 29300	1.73	3700	135
2.0625 52.388	1.7500 44.450	4.3750 111.125	1.1875 30.162	6880 30600	0.66	55000C	155
2.1250 53.975		3.5800 88.900	0.7500 19.050	3530 15700	1.07	LM806600	193
2.1250 53.975	1.5000 38.100	3.6718 93.264	1.0938 27.783	7000 31100	1.77	33800	148
2.1250 53.975		4.1250 104.775	1.5313 38.895	9730 43300	1.74	4500	137
2.1250 53.975	1.5748 40.000	4.2500 107.950	1.4375 36.512	9290 41300	1.97	535	126

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
2.1250 53.975	1.7500 44.450	5.0000 127.000	2.0000 50.800	16500 73500	1.96	6200	139
2.1452 54.448	1.6250 41.275	4.1250 104.775	1.4375 36.512	9260 41200	1.20	HM807000	193
2.1654 55.000		3.5433 90.000	0.9055 23.000	4960 22000	1.45	LM506800	182
2.1654 55.000		3.7402 95.000	1.1417 29.000	7040 31300	1.74	M207000	168
2.1654 55.000		4.3307 110.000	1.5354 39.000	11300 50400	1.69	H307700	177
2.1654 55.000		4.5276 115.000	1.3386 34.000	7840 34900	0.67	JW5500	138
2.2500 57.150		3.4375 87.312	0.7188 18.258	3380 15100	1.50	L507900	182
2.2500 57.150	2.0000 50.800	3.8437 97.630	0.9688 24.608	5610 25000	1.45	28600	146
2.2500 57.150	1.7500 44.450	4.1250 104.775	1.0938 27.783	7320 32600	1.74	455	123
2.2500 57.150	1.7500 44.450	4.1250 104.775	1.1875 30.162	8270 36800	1.76	45200	151
2.2500 57.150	2.0000 50.800	4.6250 117.475	1.3125 33.338	8040 35800	0.93	66000	157
2.2500 57.150	1.7500 44.450	4.7500 120.650	1.6250 41.275	11200 49800	1.86	615	129
2.2500 57.150	1.8750 47.625	4.8750 123.825	1.4375 36.512	9760 43400	0.79	72000C	159
2.2650 57.531	1.8750 47.625	3.8125 96.838	0.8268 21.000	4910 21800	1.65	385	121
2.3622 60.000		3.3970 100.000	0.8268 21.000	4710 21000	1.24	JP6000	138
2.3622 60.000		3.7402 95.000	0.9449 24.000	5270 23400	1.45	LM508700	182
2.3622 60.000	2.1250 53.975	4.8125 122.238	1.3125 33.338	8340 37100	0.88	66500	157
2.3622 60.000		4.9213 125.000	1.4567 37.000	9230 41100	0.71	JW6000	139
2.3750 60.325	2.0000 50.800	5.0000 127.000	1.7500 44.450	13100 58500	1.20	65000	157
2.4375 61.912	2.1250 53.975	5.1181 130.000	1.3169 33.449	9000 40000	0.71	HM911200	197
2.4700 62.738	2.3750 60.325	3.9362 99.979	0.9375 23.812	5720 25500	1.37	28900	146
2.5000 63.500		3.6250 92.075	0.5313 13.495	2090 9290	1.44	LL510700	182
2.5000 63.500		3.7188 94.458	0.7500 19.050	3620 16100	1.38	L610500	186
2.5000 63.500		4.1250 104.775	0.8438 21.433	5220 23200	1.51	39000	149
2.5000 63.500	2.1250 53.975	5.3750 136.525	1.4375 36.512	10800 47900	0.67	78000C	161
2.5591 65.000		4.1339 105.000	0.9449 24.000	5840 26000	1.29	LM710900	187

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Bearing Selection by Bore Size

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
2.5591		4.3307	1.1024	7610	1.45	M511900	182
65.000		110.000	28.000	3390			
2.5591		4.7244	1.5354	12000	1.73	H211700	168
65.000		120.000	39.000	53500			
2.5938	2.0000	4.7343	1.7188	12800	1.63	5500	138
65.883	50.800	120.250	43.658	56800			
2.6250		4.0635	0.6930	3780	1.20	L812100	194
66.675		103.213	17.602	16800			
2.6250	2.3622	4.2500	1.0000	5950	1.27	29500	147
66.675	60.000	107.950	25.400	26400			
2.6250	2.0000	4.3301	1.1713	7490	1.45	3900	137
66.675	50.800	109.985	29.750	33300			
2.6250	2.0000	4.4375	1.1875	9010	1.72	39500	150
66.675	50.800	112.712	30.162	40100			
2.6250	2.3750	4.8125	1.5000	12200	1.73	HM212000	168
66.675	60.325	122.238	38.100	54100			
2.6250	2.1649	5.3447	2.1250	17300	1.80	6300	139
66.675	54.988	135.755	53.975	77200			
2.6250	2.3750	6.0000	2.0750	19100	1.20	HH814500	195
66.675	60.325	152.400	52.705	85000			
2.6250	2.5000	7.0000	2.2500	20500	0.73	HH914400	198
66.675	63.500	117.800	57.150	91300			
2.6875	1.9685	4.3307	0.8661	5340	1.45	395	122
68.262	50.000	110.000	22.000	23700			
2.6875	2.0000	4.8125	4.5000	10300	1.69	555	126
68.262	50.800	122.238	38.100	45800			
2.6875		6.0000	1.8750	15400	0.89	9100	141
68.262		152.400	47.625	68500			
2.7500		3.0962	0.6693	2630	1.26	LL713100	188
69.850		99.217	17.000	11700			
2.7500		4.0000	0.7500	3610	1.27	L713000	187
69.850		101.600	19.050	16000			
2.7500		4.4375	0.8750	5450	1.40	LM613400	186
69.850		112.712	22.225	24200			
2.7500		5.7500	1.4375	9380	0.62	HM914500	198
69.850		146.050	36.512	41700			
2.7554		6.9375	2.1563	19700	0.84	H916600	198
69.987		176.212	54.770	87800			
2.7559		4.3307	0.8268	4940	1.27	JP7000	140
70.000		110.000	21.000	22000			
2.7559		4.3307	1.0236	6180	1.20	LM813000	194
70.000		110.000	26.000	27500			
2.7559		4.5276	1.1417	8100	1.36	M612900	186
70.000		115.000	29.000	36000			
2.7559	2.1654	4.7244	1.1418	7740	1.52	475	124
70.000	55.000	120.000	29.002	34400			
2.7559		5.1181	1.6929	14800	1.75	JF7000	140
70.000		130.000	43.000	65900			
2.7559		5.5118	1.5354	11000	0.67	JW7000	140
70.000		140.000	39.000	48900			
2.7559		2.3617	1.6250	12400	0.75	H913800	197
70.000		59.987	41.275	55200			

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
2.8125	2.7500	4.7244	1.2813	9650	1.62	47400	153
71.438	69.850	120.000	32.545	42900			
2.8125	2.1875	5.0000	1.4375	10400	1.16	HM813800	194
71.438	55.562	127.000	36.512	46400			
2.8125	2.1250	5.1250	1.6250	12600	1.61	635	129
71.438	53.975	130.175	41.275	55900			
2.8125	2.5000	5.3750	1.6250	14700	1.62	H414200	179
71.438	63.500	136.525	41.275	65400			
2.8750	2.2500	4.6250	1.1730	7470	1.34	33000	147
73.025	57.150	117.475	29.794	33200			
2.9062	2.7500	4.4375	1.0000	5960	1.20	29600	147
73.817	69.850	112.712	25.400	26500			
2.9062	2.5000	5.0000	1.4375	10600	1.61	565	127
73.817	63.500	127.000	36.512	47100			
2.9528		4.5276	0.9843	6390	1.27	LM714100	188
75.000		115.000	25.000	28400			
2.9528		4.7244	1.2205	8600	1.31	M714200	188
75.000		120.000	31.000	38300			
2.9528		5.7087	2.0079	18700	1.61	H415600	179
75.000		145.000	51.000	83300			
3.0000		4.1563	0.5313	2210	1.24	LL714600	188
76.200		105.570	13.495	9830			
3.0000		4.3125	0.7500	3730	1.16	L814700	195
76.000		109.538	19.050	16600			
3.0000		5.3438	1.7500	13800	1.44	5700	138
76.200		135.733	44.450	61300			
3.0000	2.5575	5.8750	2.1250	18700	1.61	6400	139
76.200	64.960	149.225	53.975	83300			
3.0000		6.3750	1.9375	16100	0.82	9200	141
76.200		161.925	49.212	71400			
3.0625		4.6250	1.0000	6360	1.15	LM814800	195
77.788		117.475	25.400	28300			
3.0625	2.7540	4.7812	0.9343	5510	1.30	34000	148
77.788	69.952	121.442	23.731	24500			
3.0625	3.0000	5.0000	1.1875	8690	1.39	42600	151
77.788	76.200	127.000	30.162	38700			
3.0625	2.3750	5.3750	1.8125	14500	1.24	H715300	188
77.788	60.325	136.525	46.038	64600			
3.0625		6.4951	1.9488	19000	1.14	H816200	195
77.788		164.976	49.500	84400			
3.1496		4.9213	0.9449	6110	1.29	JP8000	140
80.000		125.000	24.000	27200			
3.1496		5.1181	1.3780	10700	1.50	M515600	182
80.000		130.000	35.000	47700			
3.1496		6.2992	1.7717	14200	0.67	JW8000	140
80.000		160.000	45.000	63300			
3.2500		4.5625	0.8125	4870	1.90	L116100	166
82.550		115.888	20.638	21700			
3.2500	2.8125	5.2500	1.3125	9750	1.44	47600	153
82.550	71.438	133.350	33.338	43400			
3.2500	3.0000	5.2500	1.5625	11800	1.45	HM516400	183
82.550	76.200	133.350	39.688	52400			

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Tapered Roller Bearings

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
3.2500	2.8750	5.5115	1.4375	11200	1.45	575	127
82.550	73.025	139.992	36.512	49600			
3.2500	3.0000	7.1250	2.1250	20400	0.80	H917800	198
82.550	76.200	180.975	53.975	90800			
3.2813	3.0000	4.9375	1.0000	6320	1.40	27600	145
83.345	76.200	125.412	25.400	28100			
3.3125	3.0000	6.7500	1.9375	16500	0.76	9300	141
84.138	76.200	171.450	49.212	73500			
3.3125		7.6250	2.0472	18200	0.73	H919900	199
84.138		193.675	52.000	80800			
3.3465		5.1181	1.1811	8700	1.31	M716600	189
85.000		130.000	30.000	38700			
3.3465		5.5118	1.5354	12800	1.43	HM516800	183
85.000		140.000	39.000	57000			
3.3465		5.9055	1.8110	17900	1.76	H217200	169
85.000		150.000	46.000	79700			
3.3475	2.7500	5.9090	1.7500	17100	1.80	745	131
85.026	69.850	150.089	44.450	76300			
3.5000	2.8125	5.2500	1.1875	8330	1.31	495	125
88.900	71.438	133.350	30.162	37100			
3.3750		5.5960	1.6875	14100	1.35	HM61700	186
85.725		142.138	42.862	62700			
3.3750	2.7500	5.7500	1.6250	13300	1.43	655	129
85.725	69.850	146.050	41.275	59300			
3.5000		4.7812	0.5938	3210	1.77	LL217800	169
88.900		121.442	15.083	14300			
3.5000		4.8750	0.8125	5000	1.77	L217800	169
88.900		123.825	20.638	22200			
3.5000		6.0000	1.5625	16000	1.45	HM518400	183
88.900		152.400	39.688	71200			
3.5000	3.0000	6.3750	2.1250	20000	1.46	6500	139
88.900	76.200	161.925	53.975	89000			
3.5000	2.7500	6.6250	2.1250	22100	1.95	835	132
88.900	69.850	168.275	53.975	98200			
3.5423	3.1486	5.7864	1.5748	14800	1.76	HM218200	169
89.974	79.974	146.975	40.000	65800			
3.5433		5.7087	1.3780	12000	1.31	M718100	189
90.000		145.000	35.000	53400			
3.5433		6.1024	1.7323	17900	1.71	HM318400	177
90.000		155.000	44.000	794000			
3.5625	2.8750	6.3750	1.8750	17700	1.71	755	131
90.488	73.025	161.925	47.625	78500			
3.6210		5.6250	1.1811	8830	1.22	LM718900	189
91.973		142.875	30.000	39300			
3.7402		5.9055	1.3780	11600	1.32	M719100	189
95.000		150.000	35.000	51500			
3.7500		5.0625	0.6250	3420	1.66	LL319300	177
95.250		128.588	15.875	15200			
3.7500		5.1250	0.8125	5150	1.67	L319200	177
95.250		130.175	20.638	22900			
3.7500	3.3625	5.6250	1.3125	10600	1.30	47800	153
95.250	92.075	142.875	33.338	47300			

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
3.7500	3.0000	5.8125	1.4062	11700	1.32	595	128
95.250	76.200	147.638	35.717	51900			
3.7500	3.5000	6.7500	1.8750	18300	1.59	77000	160
95.250	88.900	171.450	47.625	81500			
3.8125	3.4630	5.8437	1.1250	8790	1.19	42000	150
96.838	87.960	148.430	28.575	39100			
3.8125	3.3465	7.4375	2.0000	17400	0.67	90000	163
96.838	85.000	188.912	50.800	77600			
3.8750		7.2500	2.5000	28600	1.56	HH421200	180
98.425		184.150	63.500	127000			
3.9060		6.5700	1.9375	18600	1.70	HM321200	177
99.212		171.450	49.212	82900			
3.9370	3.7402	5.7087	0.9449	6770	1.24	JP10000	141
100.000	95.000	145.000	24.000	30100			
3.9370		5.9055	1.2598	8770	1.16	L;M820000	195
100.000		150.000	32.000	39000			
3.9370		6.1024	1.4173	12500	1.24	M720200	189
100.000		155.000	36.000	55600			
3.9370		6.2992	1.6142	15100	1.24	HM720200	189
100.000		160.000	41.000	67000			
3.9370	3.5433	6.4961	1.8504	19700	1.83	JF10000	141
100.000	90.000	165.000	47.000	87400			
4.0000		5.3125	0.6250	3500	1.58	LL420500	180
101.600		134.938	15.875	15600			
4.0000		5.3750	0.8438	5280	1.59	L420400	179
101.600		136.525	21.433	23500			
4.0000	3.7500	6.1875	1.4375	12100	1.23	52000	155
101.600	95.250	157.162	36.512	53600			
4.0000	3.3750	6.6250	1.6250	14300	1.24	675	130
101.600	85.725	168.275	41.275	63500			
4.0000		7.0000	1.3750	10100	0.50	LM921800	199
101.600		177.800	34.925	45000			
4.0000	3.0000	7.4803	2.2500	28800	1.74	HH221400	169
101.600	76.200	190.000	57.150	128000			
4.0000	3.5000	7.5000	2.2500	24700	1.74	855	133
101.600	88.900	190.500	57.150	110000			
4.0000		3.1496	7.8740	2.0772	0.92	98000	164
101.600		80.000	200.000	52.761			
4.0000		9.8750	3.0000	37700	0.84	HH923600	199
101.600		250.825	76.200	168000			
4.1250	3.6250	73.1250	1.8750	18700	1.51	775	131
104.775	92.075	180.975	47.625	83100			
4.2500	4.0000	5.7500	0.8438	5180	1.49	L521900	183
107.950	101.600	146.050	21.433	23100			
4.2500		6.3750	1.3750	10400	1.16	48100	153
107.950		161.925	34.925	46100			
4.2500	4.1875	6.5000	1.4375	12200	1.18	56000	156
107.950	106.362	165.100	36.512	54400			
4.2500		6.7500	1.3386	10600	1.24	67000	157
107.950		171.450	34.000	47300			
4.3125	4.2500	6.2500	0.9063	6220	0.96	37000	149
109.538	107.950	158.750	23.020	27600			

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Bearing Selection by Bore Size

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
4.3302	4.2500	6.2987	1.3750	10600	1.45	LM522500	183
109.987	107.950	159.987	34.925	47000			
4.3307		6.4961	1.3780	12300	1.18	M822000	195
110.000		165.000	35.000	54500			
4.3307		7.0866	1.8504	20000	1.44	HM522600	183
110.000		180.000	47.000	89100			
4.3750		8.4375	2.1875	25400	0.87	H924000	199
111.125		214.312	55.562	113000			
4.5000		6.0000	0.8438	5640	1.41	L623100	186
114.300		152.400	21.433	25100			
4.5000	4.0000	8.1250	2.6250	30900	1.79	935	133
114.300	101.600	206.375	66.675	137000			
4.5266	4.3297	7.0000	1.6250	14800	1.13	64000	156
114.976	109.974	177.800	41.275	65900			
4.5266	3.9360	8.3750	2.6250	36700	1.79	HH224300	170
114.976	99.974	212.725	66.675	163000			
4.5276		6.4961	1.1024	8620	1.27	LM722900	190
115.000		165.000	28.000	38300			
4.5310	4.1250	7.5000	1.8750	19600	1.40	71000	159
115.087	104.775	190.500	47.625	87300			
4.6250	4.5000	7.0856	1.3750	10600	1.18	68000	159
117.475	114.300	179.974	34.925	46900			
4.7244		6.6929	1.0000	7820	1.27	L724300	190
120.000		170.000	25.400	34800			
4.7244		7.0866	1.4173	13300	1.41	M624600	187
120.000		180.000	36.000	59300			
4.7500		6.3125	0.8438	5680	1.34	L624500	186
120.650		160.338	21.433	25300			
4.7500		6.7812	1.4063	13200	1.76	M224700	171
120.650		172.242	35.720	58700			
4.7500		7.5000	1.8125	19500	1.37	HM624700	187
120.650		190.500	46.038	86800			
4.7500	4.5000	10.7500	3.2500	48500	0.92	HH926700	199
120.650	114.300	273.050	82.550	216000			
4.9213		6.8898	1.0000	8100	1.23	L725300	190
125.000		175.000	25.400	36000			
5.0000		6.5313	0.7188	4870	1.76	LL225700	171
127.000		165.895	18.258	21600			
5.0000	4.7500	6.6875	1.0000	7710	1.76	L225800	171
127.000	120.650	169.862	25.400	34300			
5.0000	4.8758	7.1875	1.5625	14500	1.91	48200	153
127.000	123.825	182.562	39.688	64300			
5.0000		9.0000	2.1250	20300	0.79	97000	164
127.000		228.600	53.925	90200			
5.0000	4.7500	101.0000	3.0625	49100	1.82	HH228300	171
127.000	120.650	254.000	77.788	218000			
5.0312	4.5000	9.0000	2.1250	26700	0.79	HM926700	199
127.792	114.300	228.600	53.975	119000			
5.0625		7.5000	1.3750	9560	0.89	48000	153
128.588		190.500	34.925	42500			
5.1181		7.2835	1.1417	10600	1.24	JP13000	142
130.000		185.000	29.000	47000			

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
5.1250	4.7500	8.1250	1.8750	20400	1.27	795	132
130.175	120.650	206.375	47.625	90800			
5.2500		6.8125	0.7500	5200	1.68	LL327000	177
133.350		173.038	19.050	23100			
5.2500		6.9688	1.0000	7940	1.68	L327200	177
133.350		177.008	25.400	35300			
5.2500		7.2500	1.0000	8470	1.16	L826900	195
133.350		184.150	25.400	37700			
5.2500	5.0000	7.7500	1.8125	19800	1.70	67300	157
133.350	127.000	196.850	46.038	88200			
5.2500	4.7500	9.0551	2.5000	33900	1.58	95000	163
133.350	120.650	230.000	63.500	151000			
5.3750	5.2500	7.5000	1.5625	15300	1.82	48300	154
136.525	133.350	190.500	39.688	67900			
5.5000		7.1250	0.8438	6120	1.60	LL428300	180
139.700		180.975	21.433	27200			
5.5000		7.3750	1.1250	10300	1.65	LM328400	177
139.700		187.325	28.575	45900			
5.5000	5.0000	8.4636	1.8750	20600	1.20	74000	160
139.700	127.000	241.975	47.625	91700			
5.5000	5.3750	9.0000	2.2500	28100	1.39	895	133
139.700	136.525	228.600	57.150	125000			
5.5000	5.0000	11.3750	3.2500	56900	1.83	HH231600	172
139.700	127.000	288.925	82.550	253000			
5.5118		7.6772	1.1417	11000	1.16	JP14000	142
140.000		195.000	29.000	48800			
5.6250	5.3750	7.6762	1.2992	13800	1.76	LM229100	171
142.875	136.525	194.975	33.000	61300			
5.6250		7.8750	1.6250	15500	1.74	48600	154
142.875		200.025	41.275	68800			
5.6250	5.5000	8.7500	1.3750	13300	1.34	73000	160
142.875	139.700	222.250	34.925	59300			
5.7500		7.4063	0.8750	6100	1.53	LL529700	183
146.050		188.120	22.225	27200			
5.7500		7.6250	1.1250	10600	1.59	36600	149
146.050		193.675	28.575	47100			
5.7500	5.0000	12.0000	3.5000	52700	0.80	HH932100	199
146.050	127.000	304.800	88.900	234000			
5.8750	5.7500	9.3125	2.2500	32200	1.83	HM231100	171
149.225	146.050	236.538	57.150	143000			
5.8750	5.5000	9.3125	2.2500	27800	1.32	82000	161
149.225	139.700	236.538	57.150	124000			
6.0000		7.5625	0.9843	7690	1.40	L630300	187
152.400		192.088	25.000	34200			
6.0000	5.9055	8.0000	1.1250	10500	1.27	L730600	191
152.400	150.000	203.200	28.575	46500			
6.0000		8.0000	1.6250	15300	1.68	LM330400	177
152.400		203.200	41.275	68000			
6.0000		8.7500	1.8437	20300	1.76	M231600	172
152.400		222.250	46.830	90400			
6.0000		9.6250	1.8750	19300	1.66	81000	161
152.400		244.475	47.625	85900			

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Tapered Roller Bearings

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm			lbs/N				
6.0000 152.400	5.5000 139.700	10.0000 254.000	2.6250 66.675	35600 158000	1.43	99000	165
6.0000 152.400	5.7500 146.050	10.5625 268.288	2.9375 74.612	42300 188000	1.51	107000	165
6.0000 152.400	5.5000 139.700	12.1250 307.975	3.5000 88.900	65900 293000	1.79	HH234000	172
6.0000 152.400		12.1250 307.975	3.5000 88.900	56800 253000	1.79	450000	181
6.2500 158.750		8.0938 205.583	0.9375 23.812	7930 35300	1.57	L432300	180
6.2500 158.750		12.0000 304.800	2.6250 66.675	34500 153000	1.62	280000	176
6.2992 160.000		8.6614 220.000	1.2598 32.000	13100 58100	1.20	JP16000	142
6.3750 161.925		14.7500 374.650	3.4375 87.312	60300 268000	0.83	117000	166
6.5000 165.100		8.5000 215.900	1.0313 26.195	9640 42900	1.60	L433700	180
6.5000 165.100		9.1339 232.000	1.7717 45.000	20100 89400	1.49	M533300	184
6.5000 165.100		10.0000 254.000	1.8125 46.038	25500 114000	1.83	M235100	172
6.5000 165.100		13.2500 336.550	3.6250 92.075	75400 336000	1.57	HH437500	181
6.5625 166.688	6.2500 158.750	8.8750 225.425	1.6250 41.275	16400 72800	1.52	46700	152
6.6250 168.275	6.1250 155.575	13.0000 330.200	3.3750 85.725	56000 249000	0.72	H936300	200
6.6929 170.000		9.0551 230.000	1.2598 32.000	13500 60100	1.27	JP17000	143
6.6929 170.000		9.0551 230.000	1.5354 39.000	18100 80400	1.52	HM534100	184
6.6929 170.000	6.2992 160.000	9.4488 240.000	1.8110 46.000	22900 102000	1.34	M734400	191
6.6929 170.000	6.5000 165.100	10.0000 254.000	1.8125 46.038	22700 101000	1.58	86000	161
6.7500 171.450		8.7500 222.250	1.0000 25.400	9000 40000	1.55	L435000	181
6.7500 171.450		10.2500 260.350	2.6250 66.675	35300 157000	1.45	HM535300	184
6.7500 171.450		13.5000 342.900	3.1250 79.375	47600 212000	1.18	590000	185
6.8750 174.625		11.7500 298.450	3.2500 82.550	53000 236000	1.55	219000	169
6.8750 174.625	6.5000 165.100	12.2500 311.150	3.2500 82.550	60400 269000	1.77	H238100	173
7.0000 177.800		8.5000 215.900	0.8125 20.638	6600 29400	1.30	LL735400	191
7.0000 177.800		8.9375 227.012	1.1875 30.162	11300 50200	1.33	36900	149
7.0000 177.800	6.5000 165.100	9.7500 247.650	1.8750 47.625	21900 97200	1.33	67700	158

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm			lbs/N				
7.0000 177.800	6.8750 174.625	10.2500 260.350	2.1250 53.975	29000 129000	1.76	M236800	173
7.0000 177.800		11.0000 279.400	2.4375 61.912	30500 136000	1.11	82600	161
7.0000 177.800	6.3120 160.325	11.3750 288.925	2.5000 63.500	44500 198000	1.83	HM237500	173
7.0000 177.800	6.5000 165.100	11.3750 288.925	2.5000 63.500	35600 159000	1.25	94000	163
7.0866 180.000		9.4488 240.000	1.2598 32.000	13600 60600	1.21	JP18000	143
7.0866 180.000		9.8425 250.000	1.8504 47.000	23400 104000	1.22	M736100	191
7.2500 184.150		9.2610 235.229	1.3386 34.000	15300 68100	1.74	LM236700	172
7.2500 184.150		9.3125 236.538	1.0312 26.192	9360 41700	1.45	LL537600	184
7.3750 187.325	7.0000 177.800	10.6250 269.875	2.1875 55.562	29600 132000	1.76	M238800	173
7.3750 187.325	7.0000 177.800	12.5970 319.964	3.5000 88.900	59900 267000	1.83	H239600	173
7.4803 190.000		10.2362 260.000	1.8110 46.000	23300 103000	1.22	M738200	191
7.5000 190.500		13.2500 336.550	3.8750 98.425	65800 293000	1.01	HH840200	195
7.5000 190.500	7.0000 177.800	16.8750 428.625	4.1875 106.362	74900 333000	0.77	350000	178
7.5625 192.088	7.2500 184.150	10.5000 266.700	1.8750 47.625	22500 99900	1.22	67800	158
7.6250 193.765	7.3750 187.325	11.1250 282.575	2.0000 50.800	23200 103000	1.41	87000	162
7.7500 196.850		9.5000 241.300	0.9375 23.812	9310 41400	1.40	LL639200	187
7.7500 196.850		10.0000 254.000	1.1250 28.575	11400 50600	1.47	L540000	184
7.7500 196.850		10.1250 257.175	1.5625 39.688	17200 76400	1.31	LM739700	191
7.8740 200.000		11.8110 300.000	2.5591 65.000	39700 177000	1.12	HM840400	195
7.8750 200.025		15.5000 393.700	4.3750 111.125	96000 427000	1.96	HH144600	167
8.0000 203.200		10.2812 261.142	1.1250 28.575	11200 49900	1.43	LL641100	187
8.0000 203.200		10.8750 276.225	1.6875 42.862	23700 105000	1.83	LM241100	173
8.0000 203.200	7.5000 190.500	14.3720 365.049	3.6250 92.075	63000 280000	1.45	420000	179
8.0000 203.200		16.0000 406.400	3.6250 92.075	60700 270000	0.73	114000	165
8.0625 204.788	7.8750 200.025	11.5000 292.100	2.2813 57.945	34300 152000	1.76	M241500	173
8.1250 206.375		13.2500 336.550	3.8750 98.425	73100 325000	1.76	H242600	174

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Bearing Selection by Bore Size

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
8.1250	8.0000	19.0000	4.6250	82200	0.67	380000	179
206.375	203.200	482.600	117.475	366000			
8.2500	8.0000	11.1250	1.8125	22900	1.15	67900	159
209.550	203.200	282.575	46.038	102000			
8.2500	7.0856	12.5000	2.5000	39500	1.12	93000	163
209.550	179.974	317.500	63.500	175000			
8.5000	8.3750	11.2500	1.8125	23200	1.21	LM742700	191
215.900	212.725	285.750	46.038	103000			
8.6602	8.5000	11.4177	1.2500	12900	1.52	543000	184
219.969	215.900	290.010	31.750	57400			
8.6875		12.3750	2.4375	39700	1.76	M244200	174
220.662		314.325	61.912	177000			
8.8125		11.6250	1.8125	23500	1.17	LM844000	195
223.838		295.275	46.038	105000			
8.9945	8.9920	17.0000	3.6250	63500	0.66	113000	165
228.460	228.397	431.800	92.075	282000			
9.0000		14.0000	2.7500	54300	1.24	HM746600	191
228.600		355.600	69.850	242000			
9.0000		14.0000	2.7500	45500	1.77	130000	167
228.600		355.600	69.850	202000			
9.0000		15.7500	3.5000	64200	1.33	430000	180
228.600		400.050	88.900	286000			
9.0000		19.2500	4.8750	102000	0.62	HH949500	200
228.600		488.950	123.825	455000			
9.1250		10.5625	0.8858	7890	1.76	LL244500	174
231.775		268.288	22.500	35100			
9.1250	9.0000	11.8125	1.3125	12800	1.45	544000	185
231.775	228.600	300.038	33.338	57100			
9.2500		12.2500	1.8125	25200	1.61	LM446300	181
234.950		311.150	46.038	112000			
9.2500		12.3750	1.9375	29700	1.47	LM545800	185
234.950		314.325	49.212	132000			
9.2500	9.0000	14.0000	2.6875	41000	0.99	96000	164
234.950	228.600	355.600	68.262	182000			
9.2500	7.8750	15.1250	4.4375	95700	1.76	H247500	174
234.950	200.025	384.175	112.712	426000			
9.3125	9.0000	12.6250	1.7500	25100	1.20	88000	162
236.538	228.600	320.675	44.450	112000			
9.3437	9.1250	13.2500	2.5625	45100	1.76	M246900	174
237.330	231.775	336.550	65.088	200000			
9.5000	9.0000	12.8750	2.0625	30100	1.44	8500	141
241.300	228.600	327.025	52.388	134000			
9.5000		13.7460	2.2500	37700	1.65	127000	166
241.300		349.148	57.150	168000			
9.5000		17.5000	4.0000	90700	1.73	923000	199
241.300		444.500	101.600	403000			
9.7500		12.0000	0.8750	8490	1.80	28800	146
247.650		304.800	22.225	37800			
9.7500		13.6250	2.5000	45900	1.70	M348400	178
247.650		346.075	63.500	204000			
9.7500	9.5000	14.0000	2.0000	32000	1.61	170000	167
247.650	241.300	368.300	50.800	142000			

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
9.7500		16.0000	4.5624	112000	1.76	HH249900	175
247.650		406.400	115.888	499000			
9.8130	9.6250	15.0000	3.1250	51800	1.13	126000	166
249.250	244.475	381.000	79.375	231000			
10.0000	9.0000	14.1250	2.8125	52200	1.76	M249700	174
254.000	228.600	358.775	71.438	232000			
10.1250		13.5000	2.2500	38900	1.68	M349500	178
257.175		342.900	57.150	173000			
10.2500	10.0000	14.3750	2.3125	38800	1.56	134000	167
260.350	254.000	365.125	58.738	173000			
10.2500		15.7500	2.7500	47300	1.48	220000	169
260.350		400.050	69.850	210000			
10.2500		16.5000	3.3750	64200	0.97	435000	181
260.350		419.100	85.725	286000			
10.2500		16.6250	3.3906	74700	1.76	HM252300	175
260.350		422.275	86.121	332000			
10.5000	10.0000	12.7500	0.8750	8630	1.69	29800	147
266.700	254.000	323.850	22.225	38400			
10.5000	10.3750	12.8125	1.1250	12700	1.60	38800	149
266.700	263.525	325.438	28.575	56300			
10.5000	10.3750	14.0000	2.2500	40100	1.62	LM451300	181
266.700	263.525	355.600	57.150	178000			
10.5000		17.5000	4.7500	104000	1.01	H852800	196
266.700		444.500	120.650	464000			
10.6250	9.2500	15.0000	2.9375	57200	1.76	M252300	175
269.875	234.950	381.000	74.612	255000			
10.7500	9.5000	15.5000	2.9062	50400	1.45	275000	176
273.050	241.300	393.700	73.817	224000			
10.8750		13.8750	1.4375	19000	1.08	L853000	196
276.225		352.425	36.512	84600			
11.0000		12.5000	0.9600	9270	1.69	LL352100	178
279.400		317.500	24.384	41200			
11.0000	10.2500	19.2500	4.7500	121000	1.87	295000	147
279.400	260.350	488.950	120.650	537000			
11.0312		16.0000	2.0625	34400	1.43	100000	165
280.192		406.400	52.388	153000			
11.0312	11.0236	169.0000	2.7500	49600	1.51	128000	166
280.192	280.000	406.400	69.850	221000			
11.2500		14.1250	1.3125	14700	1.19	545000	185
285.750		358.775	33.338	65500			
11.2500	11.0229	14.9960	2.5625	41300	1.35	LM654600	187
285.750	279.982	380.898	65.088	184000			
11.3750		16.0000	3.0625	68000	1.73	M255400	175
288.925		406.400	77.788	302000			
11.5000	11.0000	14.7500	1.8750	29700	1.45	L555200	185
292.100	279.400	374.650	47.625	132000			
11.5000		15.5000	2.5000	27300	0.96	84000	161
292.100		393.700	63.500	121000			
11.5000	11.0000	18.5000	3.7500	80300	1.55	72000	190
292.100	279.400	469.900	95.250	357000			
11.8100		19.5000	5.5625	164000	1.76	HH258200	175
299.974		495.300	141.288	729000			

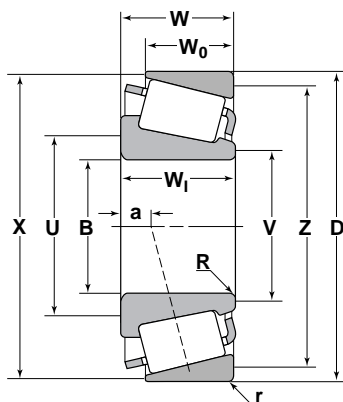
\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm

# Tapered Roller Bearings

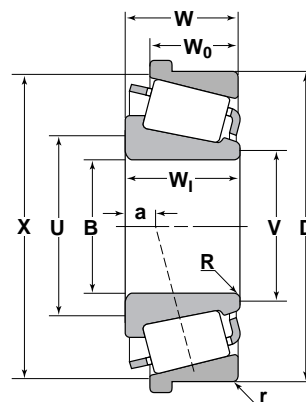
Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
11.8125 300.038		16.6250 422.275	3.2500 82.550	74100 330000	1.73	HM256800	175
12.0000 304.800		15.5000 393.700	2.0000 50.800	33500 149000	1.63	L357000	179
12.0000 304.800		16.0000 406.400	2.5000 63.500	44000 196000	1.32	LM757000	192
12.0000 304.800		17.2460 438.048	3.0000 76.200	51200 228000	1.40	129000	167
12.0000 304.800		19.5000 495.300	3.0000 76.200	77200 343000	1.45	940000	200
12.0000 304.800		19.5000 495.300	3.7500 95.250	84000 374000	1.45	724000	190
12.0000 304.800		19.6830 499.948	4.0000 101.600	66600 296000	0.50	M959400	200
12.3125 312.738		14.1250 358.775	0.8750 22.225	7640 34000	0.71	LL957000	200
12.3750 314.325		19.5000 495.300	4.7500 120.650	112000 498000	1.01	H859000	196
12.5000 317.500	11.7500 298.450	17.5000 444.500	2.5000 63.500	44200 196000	1.55	290000	176
12.5000 317.500		17.6250 447.675	3.3750 85.725	76900 342000	1.74	HM259000	175
12.7500 323.850		15.0000 381.000	1.1250 28.575	13900 61900	1.33	LL758700	192
13.0000 330.200		16.3750 415.925	1.8750 47.625	27700 123000	1.17	L860000	196
13.0000 330.200		19.0000 482.600	3.3750 85.725	71400 318000	1.49	526000	183
13.1250 333.375		18.5000 469.900	3.5625 90.488	91400 407000	1.74	HM261000	175
13.5000 342.900		17.7500 450.850	2.6250 66.675	55600 247000	1.66	LM361300	179
13.5000 342.900		17.9960 457.098	2.6875 68.262	47000 209000	0.82	LM961500	200
13.6250 346.075		19.0000 482.600	2.6250 66.675	51200 228000	1.40	203000	167
14.0000 355.600		17.5000 444.500	2.3750 60.325	41900 186000	1.90	L163100	167
14.0000 355.600	13.0000 330.200	18.5000 469.900	2.3750 60.325	31300 139000	1.17	160000	167
14.0000 355.600	13.7500 349.250	19.7500 501.650	3.5625 90.488	77200 343000	1.59	333000	178
14.2500 361.950		15.8125 401.638	0.8437 21.430	9240 41100	1.32	LL762600	192
14.2500 361.950		16.0000 406.400	0.9375 23.812	11300 50300	1.45	LL562700	185
14.6250 371.475	14.0000 355.600	19.7500 501.650	2.9375 74.612	52400 233000	1.33	230000	171
14.7500 374.650		17.0000 431.800	1.1250 28.575	14500 64500	1.76	LL264600	175
15.0000 381.000		18.8750 479.425	1.9375 49.212	33900 151000	1.18	L865500	196

Bearing Boundary Dimensions				Dynamic Radial Rating *	K Factor	Series Number	Page No.
Bore Diameter Range		Outside Diameter	Bearing Width				
Maximum	Minimum	Minimum	Minimum				
Inch/mm				lbs/N			
15.0000 381.000		20.0000 508.000	2.5000 63.500	37600 167000	1.10	192000	167
15.1250 384.175		17.3750 441.325	1.1250 28.575	13300 59100	1.72	LL365300	179
15.8750 403.225		18.1250 406.375	1.1250 28.575	13100 58400	1.45	LL566800	185
16.0000 406.400		20.0000 508.000	2.4375 61.912	49100 218000	1.60	L467500	181

\* Radial load ratings are based on 3000 hrs. L<sub>10</sub> Life @ 500 rpm



**TS Type**



**TSF Type**

## Dimensions

The basic boundary dimensions (bore, outside diameter, width) in the following tables conform to the standards established by AFBMA/ANSI.

A description of dimensions represented by various letters is given below:

- B** Nominal cone bore diameter. The tolerance is given on page 222 and the range is in the "Fitting Practice" section
- W<sub>i</sub>** Nominal cone width. The tolerance is given on page 222
- R** Maximum fillet on the shaft that the bearing corner will clear
- a** The distance from the cone backface to the effective load center
- U** Recommended minimum shaft shoulder diameter
- V** Recommended minimum shaft shoulder diameter
- D** Nominal cup outside diameter. The tolerance is given on page 222 and the range is in the "Fitting Practice" section
- W<sub>o</sub>** Nominal cup width. The tolerance is given on page 222
- r** Maximum fillet in the housing that the bearing corner will clear

- X** Recommended maximum housing shoulder diameter for TSF Type
- Z** Recommended maximum housing shoulder diameter for TS Type
- W** Nominal bearing width. The tolerance is given on page 222

Dimensions shown in the tables are given in both inch and metric units and are based on:

- 1 inch = 25.4 mm exactly**
- 1 micrometer = 1 $\mu$ m = 10<sup>-6</sup> m**
- 1 micrometer = .001 mm**

## Load Ratings

The radial load ratings in this catalog are based on 3000 hrs L10 life at 500 rpm or 90 million cycles for either cone or cup rotation. To convert this rating to 500 hrs L10 life at 33 1/3 rpm or 1 million cycles basis, multiply by 3.857.

The load ratings, radial and thrust, are shown in both pounds and newtons, i.e.,

- 1 pound = 4.448 newtons**