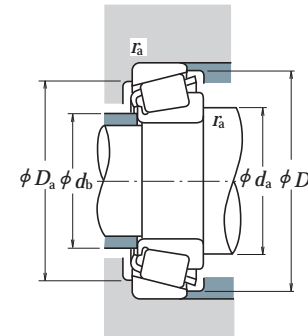
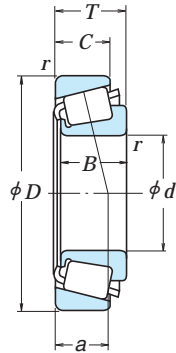


Bore Diameter 120.000 – 165.100 mm



Dynamic Equivalent Load

$$P = XF_r + YF_a$$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	0	0.4	Y_1

Static Equivalent Load

$P_0 = 0.5F_r + Y_0F_a$
 When $F_r > 0.5F_r + Y_0F_a$, use $P_0 = F_r$
 The values of e , Y_1 , and Y_0 are given in the table below.

Boundary Dimensions (mm)					Cone		Basic Load Ratings (N)				Limiting Speeds (min ⁻¹)	
d	D	T	B	C	r_{min}	Cup	C_r	C_{0r}	C_r	C_{0r}	Grease	Oil
120.000	170.000	25.400	25.400	19.050	3.3	3.3	130 000	219 000	13 200	22 300	1 900	2 600
	174.625	35.720	36.512	27.783	3.5	1.5	212 000	385 000	21 600	39 000	1 900	2 600
120.650	182.562	39.688	38.100	33.338	3.5	3.3	228 000	445 000	23 200	45 000	1 800	2 400
	206.375	47.625	47.625	34.925	3.3	3.3	320 000	530 000	32 500	54 000	1 600	2 200
123.825	182.562	39.688	38.100	33.338	3.5	3.3	228 000	445 000	23 200	45 000	1 800	2 400
	125.000	175.000	25.400	25.400	18.288	3.3	3.3	134 000	232 000	13 700	23 600	1 800
127.000	165.895	18.258	17.462	13.495	1.5	1.5	84 500	149 000	8 650	15 200	1 900	2 600
	182.562	39.688	38.100	33.338	3.5	3.3	228 000	445 000	23 200	45 000	1 800	2 400
	196.850	46.038	46.038	38.100	3.5	3.3	315 000	560 000	32 000	57 500	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3	287 000	495 000	29 300	50 000	1 500	2 000
128.588	206.375	47.625	47.625	34.925	3.3	3.3	320 000	530 000	32 500	54 000	1 600	2 200
	130.000	206.375	47.625	47.625	3.5	3.3	320 000	530 000	32 500	54 000	1 600	2 200
130.175	203.200	46.038	46.038	38.100	3.5	3.3	315 000	560 000	32 000	57 500	1 700	2 200
	206.375	47.625	47.625	34.925	3.5	3.3	320 000	530 000	32 500	54 000	1 600	2 200
133.350	177.008	25.400	26.195	20.638	1.5	1.5	124 000	258 000	12 700	26 300	1 800	2 400
	190.500	39.688	39.688	33.338	3.5	3.3	240 000	485 000	24 500	49 500	1 700	2 200
	196.850	46.038	46.038	38.100	3.5	3.3	315 000	560 000	32 000	57 500	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3	287 000	495 000	29 300	50 000	1 500	2 000
136.525	190.500	39.688	39.688	33.338	3.5	3.3	216 000	440 000	22 000	45 000	1 700	2 200
	217.488	47.625	47.625	34.925	3.5	3.3	287 000	495 000	29 300	50 000	1 500	2 000
139.700	187.325	28.575	29.370	23.020	1.5	1.5	153 000	305 000	15 600	31 500	1 700	2 200
	215.900	47.625	47.625	34.925	3.5	3.3	287 000	495 000	29 300	50 000	1 500	2 000
	254.000	66.675	66.675	47.625	7.0	3.3	515 000	830 000	52 500	84 500	1 300	1 800
142.875	200.025	41.275	39.688	34.130	3.5	3.3	227 000	460 000	23 100	46 500	1 600	2 200
146.050	193.675	28.575	28.575	23.020	1.5	1.5	170 000	355 000	17 300	36 500	1 600	2 200
	236.538	57.150	56.642	44.450	3.5	3.3	455 000	720 000	46 000	73 500	1 400	1 900
	254.000	66.675	66.675	47.625	7.0	3.3	515 000	830 000	52 500	84 500	1 300	1 800
	149.225	254.000	66.675	66.675	47.625	7.0	3.3	515 000	830 000	52 500	84 500	1 300
152.400	254.000	66.675	66.675	47.625	7.0	3.3	515 000	830 000	52 500	84 500	1 300	1 800
158.750	225.425	41.275	39.688	33.338	3.5	3.3	240 000	540 000	24 400	55 000	1 400	1 900
	165.100	247.650	47.625	47.625	38.100	3.5	3.3	345 000	705 000	35 500	71 500	1 300

Bearing Numbers		Abutment and Fillet Dimensions (mm)					Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)	
CONE	CUP	d_a	d_b	D_a	D_b	Cone r_a max.	a	e	Y_1	Y_0	approx. CONE	CUP
▲ JL 724348	▲ JL 724314	132	127	156	163	3.3	32.9	0.46	1.3	0.72	1.08	0.591
* M 224748	M 224710	135	129	163	168	3.5	32.2	0.33	1.8	0.99	1.9	0.866
48282	48220	136	133	168	176	3.5	34.2	0.31	2.0	1.1	2.56	1.14
795	792	139	134	186	198	3.3	45.7	0.46	1.3	0.72	4.44	1.9
48286	48220	139	133	168	176	3.5	34.2	0.31	2.0	1.1	2.37	1.14
▲ JL 725346	▲ JL 725316	138	133	161	168	3.3	34.3	0.48	1.3	0.69	1.19	0.573
LL 225749	LL 225710	135	132	158	160	1.5	24.2	0.33	1.8	0.99	0.647	0.288
48290	48220	141	135	168	176	3.5	34.2	0.31	2.0	1.1	2.19	1.14
67388	67322	144	138	180	189	3.5	39.7	0.34	1.7	0.96	3.74	1.46
74500	74850	148	141	196	208	3.5	48.4	0.49	1.2	0.68	4.92	1.99
799	792	146	140	186	198	3.3	45.7	0.46	1.3	0.72	3.86	1.9
797	792	148	141	186	198	3.5	45.7	0.46	1.3	0.72	3.76	1.9
67389	67320	146	141	183	191	3.5	39.7	0.34	1.7	0.96	3.51	2.06
799 A	792	148	142	186	198	3.5	45.7	0.46	1.3	0.72	3.74	1.9
L 327249	L 327210	143	141	167	171	1.5	29.5	0.35	1.7	0.95	1.18	0.55
48385	48320	148	142	177	184	3.5	35.9	0.32	1.9	1.0	2.58	1.16
67390	67322	149	143	180	189	3.5	39.7	0.34	1.7	0.96	3.27	1.46
74525	74850	152	146	196	208	3.5	48.4	0.49	1.2	0.68	4.44	1.99
48393	48320	151	144	177	184	3.5	35.9	0.32	1.9	1.0	2.31	1.16
74537	74856	155	148	197	210	3.5	48.4	0.49	1.2	0.68	4.19	2.13
LM 328448	LM 328410	149	147	176	182	1.5	31.7	0.36	1.7	0.93	1.59	0.67
74550	74850	158	151	196	208	3.5	48.4	0.49	1.2	0.68	3.93	1.99
99550	99100	170	156	227	238	7	55.3	0.41	1.5	0.81	9.99	3.83
48685	48620	158	151	185	193	3.5	37.6	0.34	1.8	0.98	2.63	1.19
36690	36620	155	154	182	188	1.5	33.5	0.37	1.6	0.90	1.64	0.725
HM 231140	HM 231110	164	160	217	224	3.5	45.9	0.32	1.9	1.0	6.07	2.93
99575	99100	175	162	227	238	7	55.3	0.41	1.5	0.81	9.24	3.83
99587	99100	178	165	227	238	7	55.3	0.41	1.5	0.81	8.86	3.83
99600	99100	181	167	227	238	7	55.3	0.41	1.5	0.81	8.46	3.83
46780	46720	176	169	209	218	3.5	44.3	0.38	1.6	0.86	3.69	1.66
67780	67720	185	179	229	240	3.5	52.4	0.44	1.4	0.75	5.83	2.33

Notes * The maximum bore diameter is listed and its tolerance is negative (See Table 8.4.1 on Page A68).

▲ The tolerances are listed in Tables 2, 3 and 4 on Pages B113 and B114.