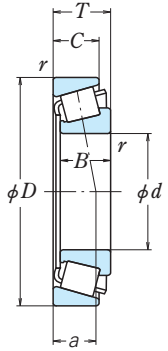
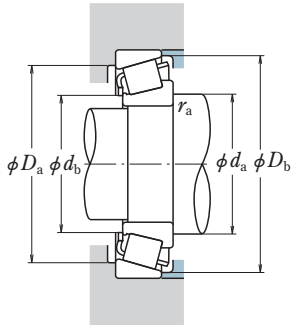
Bore Diameter 100 – 130 mm





Dynamic Equivalent Load

$P = XF_r + YF_a$

$F_a/F_r \leqq e$		$F_a/F_r > e$	
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)							Basic Load Ratings (kN)		{kgf}		Bearing Numbers
d	D	T	B	C	CONE r min.	CUP r min.	C_r	C_{0r}	C_r	C_{0r}	
100	140	25	25	20	1.5	1.5	117	205	12 000	20 900	**HR32920J**
	145	24	22.5	17.5	3	3	113	163	11 500	16 600	**T4CB100**
	150	32	32	24	2	1.5	176	294	17 900	30 000	**HR32020XJ**
	180	37	34	29	3	2.5	255	330	26 000	34 000	**HR30220J**
	180	49	46	39	3	2.5	325	450	33 000	46 000	**HR32220J**
	215	51.5	47	39	4	3	425	525	43 000	53 500	**HR30320J**
	215	77.5	73	60	4	3	565	755	57 500	77 000	**HR32320J**
105	145	25	25	20	1.5	1.5	119	212	12 100	21 600	**HR32921J**
	160	35	35	26	2.5	2	204	340	20 800	34 500	**HR32021XJ**
	190	39	36	30	3	2.5	280	365	28 500	37 500	**HR30221J**
	190	53	50	43	3	2.5	360	510	37 000	52 000	**HR32221J**
	225	53.5	49	41	4	3	455	565	46 500	57 500	**HR30321J**
	225	81.5	77	63	4	3	670	925	68 000	94 500	**HR32321J**
110	150	25	25	20	1.5	1.5	123	224	12 500	22 800	**HR32922J**
	170	38	38	29	2.5	2	236	390	24 000	40 000	**HR32022XJ**
	200	41	38	32	3	2.5	315	420	32 000	43 000	**HR30222J**
	200	56	53	46	3	2.5	400	565	40 500	57 500	**HR32222J**
	240	54.5	50	42	4	3	485	595	49 500	60 500	**HR30322J**
	240	84.5	80	65	4	3	675	910	68 500	93 000	**HR32322J**
120	165	29	29	23	1.5	1.5	161	291	16 400	29 700	HR32924J
	170	27	25	19.5	3	3	153	243	15 600	24 800	**T4CB120**
	180	38	38	29	2.5	2	242	405	24 600	41 000	**HR32024XJ**
	215	43.5	40	34	3	2.5	335	450	34 000	46 000	**HR30224J**
	215	61.5	58	50	3	2.5	440	635	44 500	65 000	**HR32224J**
	260	59.5	55	46	4	3	535	655	54 500	67 000	**HR30324J**
	260	90.5	86	69	4	3	770	1 060	78 500	108 000	**HR32324J**
130	180	32	32	25	2	1.5	200	365	20 400	37 500	**HR32926J**
	200	45	45	34	2.5	2	320	535	32 500	54 500	**HR32026XJ**
	230	43.75	40	34	4	3	375	505	38 000	51 500	**HR30226J**
	230	67.75	64	54	4	3	530	790	54 000	80 500	**HR32226J**
	280	63.75	58	49	5	4	650	820	66 000	83 500	**HR30326J**
	280	98.75	93	78	5	4	830	1 150	84 500	117 000	**32326**

Abutment and Fillet Dimensions (mm)						Eff. Load Centers (mm)	Constant	Axial Load Factors		Mass (kg)
d_a	d_b	D_a	D_b	CONE r_a max.	CUP r_a max.	a	e	Y_1	Y_0	approx.
112	106	131	136	1.5	1.5	24.2	0.33	1.8	1.0	1.18
114	106	133	141	2.5	2.5	30.1	0.47	1.3	0.70	1.18
115	106	138	146	2	1.5	32.5	0.46	1.3	0.72	1.95
121	110	163	172	2.5	2	36.1	0.42	1.4	0.79	3.78
122	110	161	174	2.5	2	41.5	0.42	1.4	0.79	5.05
129	119	193	202	3	2.5	41.4	0.35	1.7	0.96	8.41
130	114	190	206	3	2.5	53.2	0.35	1.7	0.96	12.7
117	111	136	141	1.5	1.5	25.3	0.34	1.8	0.96	1.23
122	112	146	155	2	2	34.3	0.44	1.4	0.74	2.48
127	116	172	182	2.5	2	38.1	0.42	1.4	0.79	4.52
128	115	170	183	2.5	2	44.8	0.42	1.4	0.79	6.26
136	124	202	212	3	2.5	43.2	0.35	1.7	0.96	9.52
136	122	199	213	3	2.5	55.2	0.35	1.7	0.96	14.9
122	116	141	146	1.5	1.5	26.5	0.36	1.7	0.93	1.29
128	117	156	165	2	2	35.9	0.43	1.4	0.77	3.09
134	121	181	192	2.5	2	40.1	0.42	1.4	0.79	5.28
135	121	179	193	2.5	2	47.2	0.42	1.4	0.79	7.35
143	129	216	228	3	2.5	45.1	0.35	1.7	0.96	11
144	127	213	229	3	2.5	58.5	0.35	1.7	0.96	17.1
133	126	155	161	1.5	1.5	29.2	0.35	1.7	0.95	1.8
136	126	157	166	2.5	2.5	35.0	0.47	1.3	0.70	1.78
138	127	165	175	2	2	39.7	0.46	1.3	0.72	3.27
145	132	195	206	2.5	2	44.4	0.44	1.4	0.76	6.28
146	131	192	208	2.5	2	52.0	0.44	1.4	0.76	9.0
155	139	234	247	3	2.5	50.0	0.35	1.7	0.96	13.9
155	137	230	248	3	2.5	62.4	0.35	1.7	0.96	21.8
145	138	168	174	2	1.5	31.4	0.34	1.8	0.97	2.46
151	139	184	195	2	2	43.9	0.43	1.4	0.76	5.06
157	146	210	220	3	2.5	45.8	0.44	1.4	0.76	7.25
158	143	205	221	3	2.5	56.9	0.44	1.4	0.76	11.3
167	149	252	265	4	3	52.7	0.35	1.7	0.96	16.6
172	150	248	269	4	3	69.2	0.36	1.7	0.92	26.6