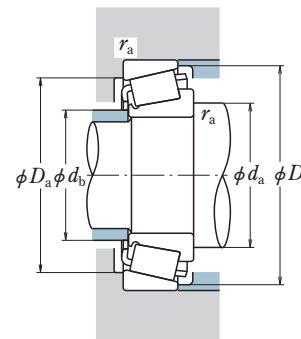
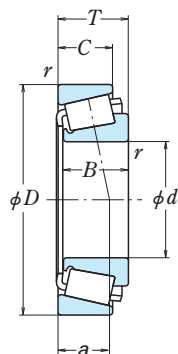


SINGLE-ROW TAPERED ROLLER BEARINGS (INCH DESIGN)

Bore Diameter 101.600 – 106.362 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.

d	Boundary Dimensions (mm/inch)				CONE r min.	CUP r min.	Basic Load Ratings (kN) (kgf)			
	D	T	B	C			C_r	C_{0r}	C_r	C_{0r}
101.600 4.0000	190.500 7.5000	57.150 2.2500	57.531 2.2650	46.038 1.8125	8.0	3.3	390	520	39 500	53 500
	190.500 7.5000	57.150 2.2500	57.531 2.2650	44.450 1.7500	8.0	3.3	355	500	36 000	51 000
	200.000 7.8740	52.761 2.0772	49.212 1.9375	34.925 1.3750	3.5	3.3	315	425	32 000	43 500
	200.025 7.8750	61.912 2.4375	57.531 2.2650	50.800 2.0000	8.0	3.3	390	520	39 500	53 500
	212.725 8.3750	66.675 2.6250	66.675 2.6250	53.975 2.1250	7.0	3.3	570	810	58 000	82 500
	212.725 8.3750	66.675 2.6250	66.675 2.6250	53.975 2.1250	7.0	3.3	475	700	48 500	71 500
	250.825 9.8750	76.200 3.0000	73.025 2.8750	50.800 2.0000	6.4	6.4	485	635	49 500	65 000
	250.825 9.8750	76.200 3.0000	73.025 2.8750	50.800 2.0000	6.4	6.4	530	645	54 000	65 500
	250.825 9.8750	76.200 3.0000	73.025 2.8750	50.800 2.0000	6.4	3.3	530	645	54 000	65 500
	104.775 4.1250	180.975 7.1250	47.625 1.8750	48.006 1.8900	38.100 1.5000	3.5	3.3	258	375	26 300
180.975 7.1250		47.625 1.8750	48.006 1.8900	38.100 1.5000	6.4	3.3	258	375	26 300	38 500
180.975 7.1250		47.625 1.8750	48.006 1.8900	38.100 1.5000	7.0	3.3	258	375	26 300	38 500
190.500 7.5000		47.625 1.8750	49.212 1.9375	34.925 1.3750	3.5	3.3	296	465	30 000	47 000
106.362 4.1875	165.100 6.5000	36.512 1.4375	36.512 1.4375	26.988 1.0625	3.5	3.3	195	320	19 800	33 000
	168.275 6.6250	36.513 1.4375	36.512 1.4375	26.988 1.0625	3.5	3.3	195	320	19 800	33 000
	168.275 6.6250	36.513 1.4375	36.512 1.4375	26.988 1.0625	3.5	3.3	195	320	19 800	33 000

Bearing Numbers	Abutment and Fillet Dimensions (mm)				CONE r max.	CUP r min.	Eff. Load Centers (mm) a	Constant e	Axial Load Factors		Mass (kg) approx.
	d_a	d_b	D_a	D_b					Y_1	Y_0	
HH221449 / HH221410	131	113	170	183	8.0	3.3	42.3	0.33	1.8	0.99	6.79
861 / 854	130	112	168	181	8.0	3.3	41.8	0.33	1.8	0.99	6.68
98400 / 98788	132	114	174	191	3.5	3.3	54.4	0.63	0.95	0.52	6.81
HH221449 / HH221416	131	113	174	188	8.0	3.3	47.0	0.33	1.8	0.99	8.29
HH224335 / HH224310	137	119	191	206	7.0	3.3	47.3	0.33	1.8	1.0	11.2
941 / 932	136	118	187	201	7.0	3.3	46.9	0.33	1.8	1.0	11.2
EE215040 / 215098	146	122	207	236	6.4	6.4	72.8	0.70	0.86	0.47	17
HH923649 / HH923610	145	118	210	238	6.4	6.4	73.3	0.70	0.86	0.47	16.8
HH923649 / HH923611	145	118	213	238	6.4	3.3	73.3	0.70	0.86	0.47	16.8
782 / 772	125	113	160	172	3.5	3.3	39.1	0.39	1.6	0.86	4.67
786 / 772	128	113	160	172	6.4	3.3	39.1	0.39	1.6	0.86	4.65
787 / 772	129	113	160	172	7.0	3.3	39.1	0.39	1.6	0.86	4.65
71412 / 71750	131	119	171	183	3.5	3.3	40.1	0.42	1.4	0.79	5.71
56418 / 56650	126	114	148	160	3.5	3.3	38.6	0.50	1.2	0.66	2.73
56418 / 56662	126	114	150	161	3.5	3.3	38.6	0.50	1.2	0.66	2.91