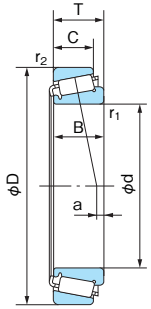
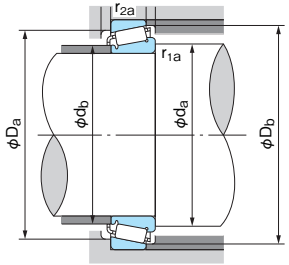
■ Tapered Roller Bearings

Inch Series

Bore Diameter: 30.213～33.338mm





■Dynamic equivalent radial load

Pr=XFr+YFa

$\frac{Fa}{Fr} \leqq e$		$\frac{Fa}{Fr} > e$	
X	Y	X	Y
1	0	0.4	Y_1

Values e and Y_1 from table.

■Static equivalent radial load

Larger value of following to be used:

Por=0.5Fr+Y_0Fa

Por=Fr

Values Y_0 from table.

1N=0.102kgf

Boundary dimensions (mm)							Bearing No.		Basic load rating		Limiting speed (min^{-1})		Abutment and fillet dimensions (mm)						Load center (mm) a (1)	Constant e	Axial load factor		Mass(kg) Reference		Bearing No.	
d	D	T	B	C	r_1 (min)	r_2 (min)	Cone	Cup	Cr (kN)	Cor (kN)	Grease	Oil	da	db	Da	Db	r_{1a}	r_{2a}			Y_1	Y_0	Cone	Cup	Cone	Cup
30.213	61.999	19.050	20.638	14.288	3.60	1.20	H-15118	H-15245	44.6	50.7	6400	8600	41.5	35.5	55.0	58.0	3.60	1.20	5.7	0.35	1.71	0.94	0.181	0.081	H-15118	H-15245
	61.999	19.050	20.638	14.288	0.80	1.20	H-15120	H-15245	44.6	50.7	6400	8600	36.0	35.5	55.0	58.0	0.80	1.20	5.7	0.35	1.71	0.94	0.183	0.081	H-15120	H-15245
	63.500	20.638	20.638	15.875	3.60	1.20	H-15118	H-15250	44.6	50.7	6400	8600	41.5	35.5	56.0	59.0	3.60	1.20	5.7	0.35	1.71	0.94	0.181	0.112	H-15118	H-15250
	63.500	20.638	20.638	15.875	3.60	1.60	H-15118	H-15250X	44.6	50.7	6400	8600	41.5	35.5	55.0	59.0	3.60	1.60	5.7	0.35	1.71	0.94	0.181	0.111	H-15118	H-15250X
30.226	69.012	19.845	19.583	15.875	0.80	1.20	H-14116	H-14276	46.1	55	5900	7800	37.0	36.5	60.0	63.0	0.80	1.20	4.4	0.38	1.57	0.86	0.226	0.134	H-14116	H-14276
31.750	59.131	15.875	16.764	11.811	SP	1.20	H-LM67048	H-LM67010	35.8	43.1	6600	8800	42.5	36.0	52.0	56.0	SP	1.20	2.9	0.41	1.46	0.80	0.120	0.062	H-LM67048	H-LM67010
	61.999	18.161	19.050	14.288	SP	1.20	H-15123	H-15245	44.6	50.7	6400	8600	42.5	36.5	55.0	58.0	SP	1.20	4.8	0.35	1.71	0.94	0.157	0.081	H-15123	H-15245
	61.999	19.050	20.638	14.288	3.60	1.20	H-15125	H-15245	44.6	50.7	6400	8600	42.5	36.5	55.0	58.0	3.60	1.20	5.7	0.35	1.71	0.94	0.169	0.081	H-15125	H-15245
	61.999	19.050	20.638	14.288	0.80	1.20	H-15126	H-15245	44.6	50.7	6400	8600	37.0	36.5	55.0	58.0	0.80	1.20	5.7	0.35	1.71	0.94	0.171	0.081	H-15126	H-15245
	66.421	25.400	25.357	20.638	0.80	3.20	H-2580	H-2520	71.4	85.1	6000	8000	38.5	37.5	57.0	62.5	0.80	3.20	9.4	0.27	2.19	1.21	0.281	0.123	H-2580	H-2520
	68.263	22.225	22.225	17.463	3.60	1.60	H-02475	H-02420	51.0	61.1	6000	8000	44.5	38.5	59.0	63.0	3.60	1.60	5.1	0.42	1.44	0.79	0.224	0.150	H-02475	H-02420
	68.263	22.225	22.225	17.463	1.60	1.60	H-M88046	H-M88010	56.1	71.1	6000	7900	43.0	40.5	58.0	65.0	1.60	1.60	3.0	0.55	1.10	0.60	0.245	0.144	H-M88046	H-M88010
	69.012	19.845	19.583	15.875	3.60	1.20	H-14125A	H-14276	46.1	55	5900	7800	44.0	37.5	60.0	63.0	3.60	1.20	4.4	0.38	1.57	0.86	0.213	0.134	H-14125A	H-14276
	69.012	19.845	19.583	15.875	3.60	3.20	H-14125A	H-14274	46.1	55	5900	7800	44.0	37.5	59.0	63.0	3.60	3.20	4.4	0.38	1.57	0.86	0.213	0.131	H-14125A	H-14274
	69.850	23.813	25.357	19.050	0.80	1.20	H-2580	H-2523	71.4	85.1	6000	8000	38.5	37.5	61.0	64.0	0.80	1.20	9.4	0.27	2.19	1.21	0.281	0.168	H-2580	H-2523
33.338	68.263	22.225	22.225	17.463	0.80	1.60	H-M88048	H-M88010	56.1	71.1	6000	7900	42.5	41.0	58.0	65.0	0.80	1.60	3.0	0.55	1.10	0.60	0.231	0.144	H-M88048	H-M88010
	69.012	19.845	19.583	15.875	3.60	1.20	H-14130	H-14276	46.1	55.0	5900	7800	45.0	38.5	60.0	63.0	3.60	1.20	4.4	0.38	1.57	0.86	0.2	0.134	H-14130	H-14276
	69.012	19.845	19.583	15.875	0.80	3.20	H-14131	H-14274	46.1	55.0	5900	7800	39.5	38.5	59.0	63.0	0.80	3.20	4.4	0.38	1.57	0.86	0.203	0.131	H-14131	H-14274
	69.012	19.845	19.583	15.875	0.80	1.20	H-14131	H-14276	46.1	55.0	5900	7800	39.5	38.5	60.0	63.0	0.80	1.20	4.4	0.38	1.57	0.86	0.203	0.134	H-14131	H-14276
	69.012	19.845	19.583	15.875	3.60	3.20	H-14130	H-14274	46.1	55.0	5900	7800	45.0	38.5	59.0	63.0	3.60	3.20	4.4	0.38	1.57	0.86	0.2	0.131	H-14130	H-14274
	76.200	23.813	25.654	19.050	1.60	3.20	H-2790R	H-2720	74.1	92.2	5400	7200	42.0	40.0	66.0	70.0	1.60	3.20	8.1	0.30	1.98	1.09	0.364	0.184	H-2790R	H-2720

Notes: (1) Minus value of load center "a" indicates that the center is located outside of cone backface.
(2) SP indicates special surface handling configurations.