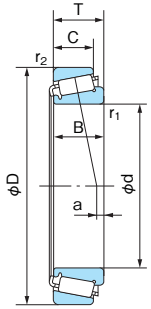
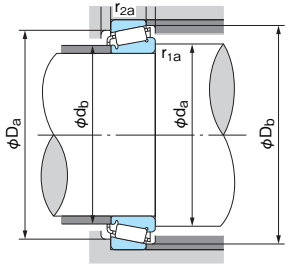
■ Tapered Roller Bearings

Inch Series

Bore Diameter: 39.688～42.875mm





■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
	73.025	25.654	22.098	21.336	0.80	2.40	H-M201047R	H-M201011	68.4	90.6	5300	7100	48.0	45.5	64.0	69.0	0.80	2.40	5.8	0.33	1.80	0.99	0.278	0.167	H-M201047R	H-M201011
39.688	76.200	23.813	25.654	19.050	3.60	3.20	H-2789R	H-2720	74.1	92.2	5400	7200	52.0	45.0	66.0	70.0	3.60	3.20	8.1	0.30	1.98	1.09	0.289	0.185	H-2789R	H-2720
	76.200	23.813	25.654	19.050	3.60	0.80	H-2789R	H-2729	74.1	92.2	5400	7200	52.0	45.0	68.0	70.0	3.60	0.80	8.1	0.30	1.98	1.09	0.289	0.189	H-2789R	H-2729
40.000	76.200	20.638	20.940	15.507	1.60	1.20	28158	28300	57.3	65.9	5300	7000	47.5	45.0	68.0	71.0	1.60	1.20	4.5	0.40	1.49	0.82	0.266	0.137	28158	28300
40.987	67.975	17.500	18.000	13.500	SP	1.60	H-LM300849	H-LM300811	44.0	59.5	5500	7400	52.0	45.0	61.0	65.0	SP	1.60	3.6	0.35	1.72	0.95	0.157	0.081	H-LM300849	H-LM300811
	73.025	16.667	17.463	12.700	3.60	1.60	H-18590	H-18520	45.9	55.8	5200	6900	53.0	46.0	66.0	69.0	3.60	1.60	2.2	0.35	1.71	0.94	0.199	0.085	H-18590	H-18520
	73.431	19.558	19.812	14.732	3.60	0.80	H-LM501349	H-LM501310	57.8	73.0	5200	7000	53.0	46.5	67.0	70.0	3.60	0.80	3.5	0.40	1.50	0.83	0.227	0.167	H-LM501349	H-LM501310
	73.431	21.430	19.812	16.604	3.60	0.80	H-LM501349	H-LM501314	57.8	73.0	5200	7000	53.0	46.5	66.0	70.0	3.60	0.80	3.5	0.40	1.50	0.83	0.227	0.126	H-LM501349	H-LM501314
	76.200	18.009	17.384	14.288	1.60	1.60	11162R	11300	51.6	63.3	5200	6900	49.0	46.5	67.0	72.0	1.60	1.60	0.5	0.49	1.23	0.68	0.221	0.127	11162R	11300
	76.200	22.225	23.020	17.463	3.60	0.80	24780R	24720	66.3	83.3	5200	6900	54.0	47.0	68.0	72.0	3.60	0.80	4.8	0.39	1.53	0.84	0.275	0.148	24780R	24720
	76.200	25.400	23.020	20.638	3.60	2.40	24780R	24721	66.3	83.3	5200	6900	54.0	47.0	72.0	66.0	3.60	2.40	4.8	0.39	1.53	0.84	0.275	0.186	24780R	24721
	79.375	23.813	25.400	19.050	3.60	0.80	H-26882R.	H-26822.	81.1	105	5000	6700	54.0	47.0	71.0	74.0	3.60	0.80	7.5	0.32	1.88	1.04	0.355	0.186	H-26882R.	H-26822.
	80.167	25.400	25.400	20.638	3.60	3.20	H-26882R.	H-26820.	81.1	105	5000	6700	54.0	47.0	70.0	74.0	3.60	3.20	7.5	0.32	1.88	1.04	0.355	0.217	H-26882R.	H-26820.
	80.167	29.370	30.391	23.813	3.60	3.20	3383	3320	91	106	5000	6700	53.0	46.5	70.0	75.0	3.60	3.20	10.7	0.27	2.20	1.21	0.419	0.217	3383	3320
41.275	80.167	29.370	30.391	23.813	0.80	3.20	3384	3320	91	106	5000	6700	47.0	46.5	70.0	75.0	0.80	3.20	10.7	0.27	2.20	1.21	0.421	0.217	3384	3320
	82.550	26.543	25.654	20.193	3.60	3.30	H-M802048	H-M802011	83.7	105	4900	6500	57.0	50.6	70.0	79.0	3.60	3.30	3.3	0.55	1.10	0.60	0.403	0.227	H-M802048	H-M802011
	84.138	30.163	30.886	23.813	3.60	3.20	3577R	3520	95.8	120	4600	6200	54.0	48.0	74.0	79.5	3.60	3.20	9.7	0.31	1.96	1.08	0.532	0.221	3577R	3520
	85.725	30.162	30.162	23.812	3.60	3.20	3877	3820	108	136	4800	6400	57.0	50.3	73.0	81.0	3.60	3.20	8.4	0.40	1.49	0.82	0.525	0.285	3877	3820
	87.313	30.163	30.886	23.813	3.60	3.20	3577R	3525	95.8	120	4600	6200	54.0	48.0	75.0	81.0	3.60	3.20	9.7	0.31	1.96	1.08	0.532	0.3	3577R	3525
	87.313	30.163	30.886	23.813	1.60	3.20	H-3585R	H-3525	95.8	120	4600	6200	50.0	48.0	75.0	81.0	1.60	3.20	9.7	0.31	1.96	1.08	0.537	0.3	H-3585R	H-3525
	88.900	30.163	29.370	23.020	0.80	3.30	HM803145	HM803110	99.6	125	4600	6100	54.0	53.0	74.0	85.0	0.80	3.30	4.1	0.55	1.10	0.60	0.577	0.318	HM803145	HM803110
	88.900	30.163	29.370	23.020	3.60	3.30	HM803146	HM803110	99.6	125	4600	6100	60.0	53.0	74.0	85.0	3.60	3.30	4.1	0.55	1.10	0.60	0.574	0.318	HM803146	HM803110
	90.488	39.688	40.386	33.338	3.60	3.20	4388	4335	132	169	4500	6000	57.0	51.0	77.0	85.0	3.60	3.20	14.1	0.28	2.11	1.16	0.775	0.454	4388	4335
42.863	87.313	30.163	30.886	23.813	3.60	3.20	H-3579R	H-3525	95.8	120	4600	6200	56.0	49.5	75.0	81.0	3.60	3.20	9.7	0.31	1.96	1.08	0.507	0.3	H-3579R	H-3525
42.875	82.931	26.988	25.400	22.225	3.60	2.40	H-25577	H-25523	77.3	100	4800	6300	55.0	49.0	77.0	72.0	3.60	2.40	6.3	0.33	1.79	0.99	0.383	0.246	H-25577	H-25523
	83.058	23.876	25.400	19.114	3.60	2.00	H-25577	H-25522	77.3	100	4800	6300	55.0	49.0	73.0	77.0	3.60	2.00	6.3	0.33	1.79	0.99	0.383	0.203	H-25577	H-25522

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.