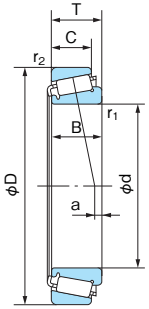
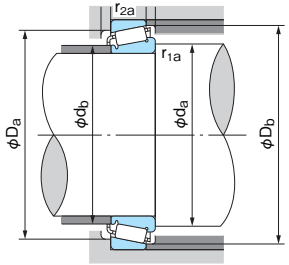
Tapered Roller Bearings

Inch Series

Bore Diameter: 34.925～38.100mm





■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
34.925	65.088	18.034	18.288	13.970	SP	1.20	H-LM48548	H-LM48510	48.0	58.5	6000	8000	46.0	40.0	58.0	61.0	SP	1.20	3.7	0.38	1.59	0.88	0.164	0.086	H-LM48548	H-LM48510
	65.088	21.082	18.288	17.018	SP	1.60	H-LM48548	H-LM48511A	48.0	58.5	6000	8000	46.0	40.0	58.0	61.0	SP	1.60	3.7	0.38	1.59	0.88	0.164	0.113	H-LM48548	H-LM48511A
	65.088	18.034	18.288	13.970	0.80	1.20	H-LM48548A	H-LM48510	48.0	58.5	6000	8000	40.5	42.0	58.0	61.0	0.80	1.20	3.7	0.38	1.59	0.88	0.169	0.086	H-LM48548A	H-LM48510
	65.088	21.082	18.288	17.018	0.80	1.60	H-LM48548A	H-LM48511A	48.0	58.5	6000	8000	40.5	42.0	58.0	61.0	0.80	1.60	3.7	0.38	1.59	0.88	0.169	0.113	H-LM48548A	H-LM48511A
	69.012	19.845	19.583	15.875	1.60	3.20	H-14137A	H-14274	46.1	55.0	5900	7800	42.0	40.0	59.0	63.0	1.60	3.20	4.4	0.38	1.57	0.86	0.189	0.131	H-14137A	H-14274
	69.012	19.845	19.583	15.875	1.60	1.20	H-14137A	H-14276	46.1	55.0	5900	7800	42.0	40.0	60.0	63.0	1.60	1.20	4.4	0.38	1.57	0.86	0.189	0.134	H-14137A	H-14276
	69.012	19.845	19.583	15.875	3.60	3.20	H-14138A	H-14274	46.1	55.0	5900	7800	46.0	40.0	59.0	63.0	3.60	3.20	4.4	0.38	1.57	0.86	0.187	0.131	H-14138A	H-14274
	69.012	19.845	19.583	15.875	3.60	1.20	H-14138A	H-14276	46.1	55.0	5900	7800	46.0	40.0	60.0	63.0	3.60	1.20	4.4	0.38	1.57	0.86	0.187	0.134	H-14138A	H-14276
	72.233	25.400	25.400	19.842	2.40	2.40	H-HM88649	H-HM88610	66.9	87.4	5700	7600	48.5	42.5	60.0	69.0	2.40	2.40	4.7	0.55	1.10	0.60	0.301	0.185	H-HM88649	H-HM88610
	73.025	23.813	24.608	19.050	1.60	2.40	H-25877R	H-25820	72.2	87.3	5600	7400	43.0	40.5	64.0	68.0	1.60	2.40	8.2	0.29	2.07	1.14	0.31	0.164	H-25877R	H-25820
	73.025	23.813	24.608	19.050	1.60	0.80	H-25877R	H-25821	72.2	87.3	5600	7400	43.0	40.5	65.0	68.0	1.60	0.80	8.2	0.29	2.07	1.14	0.31	0.165	H-25877R	H-25821
	76.200	29.370	28.575	23.813	3.60	3.30	H-31593	H-31520	80.9	97.4	5400	7200	50.0	43.5	64.0	72.0	3.60	3.30	7.8	0.40	1.49	0.82	0.388	0.232	H-31593	H-31520
	76.200	29.370	28.575	23.813	1.60	3.30	H-31594	H-31520	80.9	97.4	5400	7200	46.0	43.5	64.0	72.0	1.60	3.30	7.8	0.40	1.49	0.82	0.388	0.232	H-31594	H-31520
	79.375	29.370	29.771	23.813	3.60	3.20	3478	3420	87.4	105	5200	6900	50.0	43.5	67.0	74.0	3.60	3.20	8.6	0.37	1.64	0.90	0.462	0.256	3478	3420
	80.167	29.370	30.391	23.813	3.60	3.20	3379	3320	91	106	5000	6700	48.0	41.5	70.0	75.0	3.60	3.20	10.7	0.27	2.20	1.21	0.505	0.217	3379	3320
	85.725	30.162	30.162	23.813	3.60	3.20	3872	3820	108	136	4800	6400	53.0	46.0	73.0	81.0	3.60	3.20	8.4	0.40	1.49	0.82	0.614	0.285	3872	3820
34.987	59.131	15.875	16.764	11.938	SP	1.27	H-L68149	H-L68110	35.7	48.5	6400	8500	45.5	39.0	53.0	56.0	SP	1.27	2.7	0.42	1.44	0.79	0.112	0.056	H-L68149	H-L68110
	59.975	15.875	16.764	11.938	SP	1.20	H-L68149	H-L68111	35.7	48.5	6400	8500	45.5	39.0	53.0	56.0	SP	1.20	2.7	0.42	1.44	0.79	0.112	0.063	H-L68149	H-L68111
36.487	73.025	23.813	24.608	19.050	1.60	2.40	H-25880R	H-25820	72.2	87.3	5600	7400	44.0	42.0	64.0	68.0	1.60	2.40	8.2	0.29	2.07	1.14	0.294	0.164	H-25880R	H-25820
	73.025	23.813	24.608	19.050	1.60	0.80	H-25880R	H-25821	72.2	87.3	5600	7400	44.0	42.0	65.0	68.0	1.60	0.80	8.2	0.29	2.07	1.14	0.294	0.165	H-25880R	H-25821
	76.200	23.813	25.654	19.050	1.60	3.20	H-2780R	H-2720	74.1	92.2	5400	7200	44.5	42.5	66.0	70.0	1.60	3.20	8.1	0.30	1.98	1.09	0.33	0.185	H-2780R	H-2720
36.513	76.200	29.370	28.575	23.813	3.60	3.30	H-31597	H-31520	80.9	97.4	5400	7200	51.0	44.5	64.0	72.0	3.60	3.30	7.8	0.40	1.49	0.82	0.368	0.232	H-31597	H-31520
	93.663	31.750	31.750	26.195	1.60	3.20	46143	46368	105	134	4400	5800	48.5	46.5	79.0	87.0	1.60	3.20	7.7	0.40	1.49	0.82	0.738	0.403	46143	46368
38.000	63.000	17.000	17.000	13.500	SP	SP	H-JL69349	H-JL69310	43.5	58.2	6000	8000	49.0	41.0	60.0	56.5	SP	SP	2.4	0.42	1.44	0.79	0.128	0.070	H-JL69349	H-JL69310
38.100	65.088	18.034	18.288	13.970	SP	1.17	H-LM29748	H-LM29710	42.9	56.5	5800	7800	49.0	42.5	59.0	62.0	SP	1.17	4.3	0.33	1.80	0.99	0.154	0.079	H-LM29748	H-LM29710
	65.088	18.034	18.288	13.970	2.36	1.17	H-LM29749	H-LM29710	42.9	56.5	5800	7800	46.0	42.5	59.0	62.0	2.36	1.17	4.3	0.33	1.80	0.99	0.159	0.079	H-LM29749	H-LM29710
	65.088	19.812	18.288	15.748	2.36	1.30	H-LM29749	H-LM29711	42.9	56.5	5800	7800	46.0	42.5	58.0	62.0	2.36	1.30	4.3	0.33	1.80	0.99	0.159	0.092	H-LM29749	H-LM29711
	68.275	20.000	16.520	16.032	1.60	1.60	H-19150R	H-19268X	46.1	53.8	5700	7600	45.0	43.0	61.0	65.0	1.60	1.60	1.4	0.44	1.35	0.74	0.167	0.109	H-19150R	H-19268X
	69.012	26.195	26.195	15.083	1.60	2.40	H-13686	H-13621	49.2	62	5600	7500	46.0	43.0	61.0	65.0	1.60	2.40	10.1	0.40	1.49	0.82	0.254	0.102	H-13686	H-13621
	76.200	23.813	25.654	19.050	3.60	3.20	H-2788R	H-2720	74.1	92.2	5400	7200	50.0	43.5	66.0	70.0	3.60	3.20	8.1	0.30	1.98	1.09	0.308	0.185	H-2788R	H-2720
	79.375	23.813	25.400	19.050	0.80	0.80	H-26878R.	H-26822.	81.1	105	5000	6700	45.0	44.5	71.0	74.0	0.80	0.80	7.5	0.32	1.88	1.04	0.397	0.185	H-26878R.	H-26822.
	79.375	29.370	29.771	23.813	3.60	3.20	3490	3420	87.4	105	5200	6900	52.0	45.9	67.0	74.0	3.60	3.20	8.6	0.37	1.64	0.90	0.421	0.256	3490	3420
	80.167	25.400	25.400	20.638	0.80	3.20	H-26878R.	H-26820.	81.1	105	5000	6700	45.0	44.5	69.0	74.0	0.80	3.20	7.5	0.32	1.88	1.04	0.397	0.217	H-26878R.	H-26820.
	88.501	26.988	29.083	22.225	3.60	1.60	418	414	98.2	112	4900	6500	51.0	44.5	77.0	80.0	3.60	1.60	10.1	0.26	2.28	1.25	0.523	0.325	418	414

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.