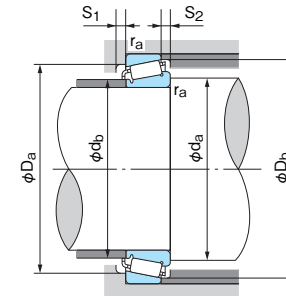
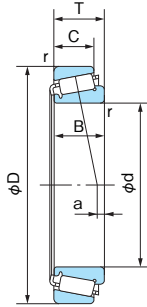


Tapered Roller Bearings

Metric Series

Bore Diameter: 15~35mm



Dynamic equivalent radial load

$$Pr = XFr + YFa$$

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

Values e and Y₁ from table.

Static equivalent radial load

Larger value of following to be used:

$$Por = 0.5Fr + Y_0Fa$$

$$Por = Fr$$

Values Y₀ from table.

1N=0.102kgf

Boundary dimensions (mm)							Bearing No.	(Ref.) ISO355 Dimension series	Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	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	Cone r (min)	Cup r (min)					Grease lubrication	Oil lubrication	da (min)	db (max)	Da (min)	Db (min)	S ₁ (min)	S ₂ (min)	Cone ra (max)	Cup ra (max)			Y ₁	Y ₀		
15	35	11.75	11	10	0.6	0.6	H-E30202	—	15800	14500	12000	16000	19.5	20	29	33	2	1.7	0.6	0.6	3.4	0.32	1.88	1.04	0.054	H-E30202
	42	14.25	13	11	1	1	H-E30302J	2FB	21900	19200	10000	14000	20.5	22	36.5	38	2	3	1	1	4.3	0.29	2.11	1.16	0.098	H-E30302J
17	40	13.25	12	11	1	1	H-E30203J	2DB	20800	20700	10000	14000	22.5	23	33	37	2	2	1	1	3.2	0.35	1.74	0.96	0.081	H-E30203J
	47	15.25	14	12	1	1	H-E30303J	2FB	27400	24500	9200	12000	22.5	25	40	42	2	3	1	1	4.3	0.29	2.11	1.16	0.133	H-E30303J
20	47	20.25	19	16	1	1	H-32303	—	31900	29900	9400	13000	22.5	25	39	43	2	4	1	1	7.9	0.29	1.97	1.08	0.176	H-32303
	42	15	15	12	0.6	0.6	H-E32004J	3CC	27300	31500	9300	13000	24.5	25	35	39	3	3	0.6	0.6	4.5	0.37	1.60	0.88	0.102	H-E32004J
	47	15.25	14	12	1	1	H-E30204J	2DB	27000	27200	8700	12000	25.5	27	39	44	2	3	1	1	3.5	0.35	1.74	0.95	0.127	H-E30204J
	47	19.25	18	15	1	1	H-E32204	—	32500	34800	8700	12000	25.5	27	39	43	2	4	1	1	6.2	0.35	1.73	0.95	0.156	H-E32204
	52	16.25	16	13	1.5	1.5	H-E30304J	—	36400	35200	8300	11000	28.5	28	44	47	2	3	1.5	1.5	3.0	0.30	2.00	1.10	0.179	H-E30304J
25	52	22.25	21	18	1.5	1.5	H-E32304J	2FD	45100	46700	8400	11000	28.5	27	43	47	3	4	1.5	1.5	7.8	0.30	2.00	1.10	0.239	H-E32304J
	47	15	15	11.5	0.6	0.6	H-E32005J	4CC	30200	37700	8300	11000	29.5	30	40	44	3	3.5	0.6	0.6	3.2	0.43	1.39	0.77	0.118	H-E32005J
	47	17	17	14	0.6	0.6	H-E33005J	2CE	33500	42300	8300	11000	29.5	30	41	44	3	3	0.6	0.6	6.1	0.29	2.07	1.14	0.131	H-E33005J
	52	16.25	15	13	1	1	H-E30205J	3CC	31500	33700	7500	10000	30.5	31	44	48	2	3	1	1	3.3	0.37	1.60	0.88	0.156	H-E30205J
	52	19.25	18	16	1	1	H-E32205J	2CD	39800	44800	7900	11000	30.5	31	43	48	2	4	1	1	5.7	0.36	1.67	0.92	0.188	H-E32205J
	52	22	22	18	1	1	H-E33205J	2DE	48900	58500	7900	10000	30.5	30	43	49	4	4	1	1	7.9	0.35	1.71	0.94	0.225	H-E33205J
	62	18.25	17	15	1.5	1.5	H-E30305J	2FB	48200	46900	6800	9000	33.5	34	54	57	2	3	1.5	1.5	5.4	0.30	2.00	1.10	0.273	H-E30305J
	62	18.25	17	13	1.5	1.5	H-E30305DJ	7FB	39800	42500	5700	8000	33.5	34	47	58.5	3	5	1.5	1.5	-2.2	0.83	0.73	0.40	0.269	H-E30305DJ
30	62	25.25	24	20	1.5	1.5	H-E32305J	2FD	61200	64100	6900	9100	33.5	33	52	57	3	5	1.5	1.5	8.6	0.30	2.00	1.10	0.386	H-E32305J
	55	17	17	13	1	1	H-E32006J	4CC	38200	48000	7000	9400	35.5	35	47	52	3	4	1	1	3.4	0.43	1.39	0.77	0.177	H-E32006J
	55	20	20	16	1	1	H-E33006J	2CE	43200	55200	7000	9400	35.5	36	48	52	3	4	1	1	7.0	0.29	2.06	1.13	0.203	H-E33006J
	62	17.25	16	14	1	1	H-E30206J	3DB	41500	44800	6500	8700	35.5	37	53	57	2	3	1	1	3.1	0.37	1.60	0.88	0.236	H-E30206J
	62	21.25	20	17	1	1	H-E32206J	3DC	50700	57900	6500	8700	35.5	37	52	58	2	4	1	1	5.3	0.37	1.60	0.88	0.292	H-E32206J
	62	25	25	19.5	1	1	H-E33206J	2DE	66400	79400	6500	8700	35.5	36	53	58	2	5.5	1	1	8.7	0.34	1.76	0.97	0.359	H-E33206J
	72	20.75	19	16	1.5	1.5	H-E30306J	2FB	59600	60100	5800	7700	38.5	40	62	66	3	4.5	1.5	1.5	5.1	0.31	1.90	1.05	0.411	H-E30306J
35	72	20.75	19	14	1.5	1.5	H-E30306DJ	7FB	50900	54900	4900	6800	38.5	40	55	68	3	6.5	1.5	1.5	-2.9	0.83	0.73	0.04	0.400	H-E30306DJ
	72	28.75	27	23	1.5	1.5	H-E32306J	2FD	82200	91600	5900	7900	38.5	39	59	66	3	5.5	1.5	1.5	9.8	0.31	1.90	1.05	0.588	H-E32306J
	55	14	14	11.5	0.6	0.6	E32907J	2BD	26100	36500	6600	8800	39.5	40	49	52	2.5	2.5	0.6	0.6	3.1	0.29	2.06	1.13	0.120	E32907J
	62	18	18	14	1	1	H-E32007J	4CC	45500	59400	6200	8200	40.5	40	54	59	4	4	1	1	2.9	0.45	1.32	0.73	0.231	H-E32007J
	62	21	21	17	1	1	H-E33007J	2CE	51300	68000	6200	8200	40.5	41	55	59	3	4	1	1	6.8	0.31	1.97	1.08	0.263	H-E33007J
	72	18.25	17	15	1.5	1.5	H-E30207J	3DB	55100	60900	5600	7400	43.5	44	62	67	3	3	1.5	1.5	2.9	0.37	1.60	0.88	0.344	H-E30207J
	72	24.25	23	19	1.5	1.5	H-E32207J	3DC	69600	82400	5600	7500	43.5	43	61	67	3	5	1.5	1.5	6.0	0.37	1.60	0.88	0.453	H-E32207J
	72	28	28	22	1.5	1.5	H-E33207J	2DE	86700	107000	5700	7500	43.5	42	61	68	5	6	1.5	1.5	9.6	0.35	1.70	0.93	0.551	H-E33207J
	80	22.75	21	18	2	1.5	H-E30307J	2FB	76200	78900	5200	6900	45	45	70	74	3	4.5	2	1.5	5.8	0.31	1.90	1.05	0.527	H-E30307J
	80	22.75	21	15	2	1.5	H-E30307DJ	7FB	63100	69100	4300	6000	45	44	66	76.5	3	7.5	2	1.5	-4.1	0.83	0.73	0.40	0.536	H-E30307DJ
80	32.75	31	25	2	1.5	H-E32307J	2FE	101000	114000	5300	7000	45	44	66	74	3	7.5	2	1.5	12.2	0.31	1.90	1.05	0.776	H-E32307J	

Note: (1) Minus value of load center "a" indicates that the center is located outside of cone backface.