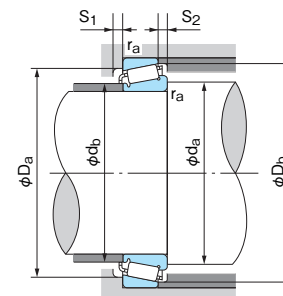
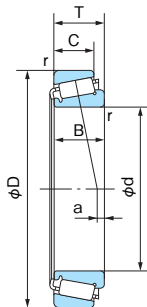


Tapered Roller Bearings

Metric Series

Bore Diameter: 40~50mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
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:

$$P_{or} = 0.5F_r + Y_0F_a$$

$$P_{or} = F_r$$

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		
40	62	15	15	12	0.6	0.6	H-E32908J	2BC	33500	48500	5900	7800	44.5	45	55	59	3	3	0.6	0.6	3.1	0.29	2.07	1.14	0.164	H-E32908J
	68	19	19	14.5	1	1	H-E32008J	3CD	53500	71400	5600	7400	45.5	46	60	65	4	4.5	1	1	3.9	0.38	1.58	0.87	0.282	H-E32008J
	68	22	22	18	1	1	H-E33008J	2BE	60400	84600	5500	7400	45.5	46	60	65	3	4	1	1	7.3	0.28	2.12	1.17	0.326	H-E33008J
	75	26	26	20.5	1.5	1.5	H-E33108J	2CE	82200	108000	5200	6900	48.5	47	65	71	4	5.5	1.5	1.5	7.7	0.36	1.69	0.93	0.508	H-E33108J
	80	19.75	18	16	1.5	1.5	H-E30208J	3DB	62900	69200	5000	6700	48.5	49	69	75	3	3.5	1.5	1.5	2.7	0.37	1.60	0.88	0.434	H-E30208J
	80	24.75	23	19	1.5	1.5	H-E32208J	3DC	77700	90800	5000	6600	48.5	48	68	75	3	5.5	1.5	1.5	5.3	0.37	1.60	0.88	0.554	H-E32208J
	80	32	32	25	1.5	1.5	H-E33208J	2DE	108000	139000	5000	6700	48.5	47	67	76	5	7	1.5	1.5	11.3	0.36	1.68	0.92	0.758	H-E33208J
	90	25.25	23	20	2	1.5	H-E30308J	2FB	90600	101000	4500	6100	50	52	77	82	3	5	2	1.5	5.4	0.35	1.74	0.96	0.757	H-E30308J
	90	25.25	23	17	2	1.5	H-E30308DJ	7FB	80500	90200	3800	5300	50	51	71	86	3	8	2	1.5	-4.6	0.83	0.73	0.40	0.757	H-E30308DJ
90	35.25	33	27	2	1.5	H-E32308J	2FD	116000	139000	4600	6200	50	50	73	82	3	8	2	1.5	10.9	0.35	1.74	0.96	1.06	H-E32308J	
45	68	15	15	12	0.6	0.6	H-E32909J	2BC	34700	52400	5300	7100	49.5	50	61	64	3	3	0.6	0.6	2.5	0.32	1.88	1.04	0.190	H-E32909J
	75	20	20	15.5	1	1	H-E32009J	3CC	62800	86500	5000	6600	50.5	51	67	72	4	4.5	1	1	3.5	0.39	1.53	0.84	0.354	H-E32009J
	75	24	24	19	1	1	H-E33009J	2CE	69600	101000	5000	6700	50.5	51	67	71	4	5	1	1	7.6	0.29	2.04	1.12	0.416	H-E33009J
	80	26	26	20.5	1.5	1.5	E33109J	3CE	87500	120000	4800	6400	53.5	52	69	76.5	4	5.5	1.5	1.5	6.6	0.38	1.57	0.86	0.563	E33109J
	85	20.75	19	16	1.5	1.5	H-E30209J	3DB	67200	77400	4600	6100	53.5	54	74	80	3	4.5	1.5	1.5	1.8	0.40	1.48	0.81	0.502	H-E30209J
	85	24.75	23	19	1.5	1.5	H-E32209J	3DC	78300	94100	4600	6100	53.5	53	73	81	3	5.5	1.5	1.5	3.8	0.40	1.48	0.81	0.587	H-E32209J
	85	32	32	25	1.5	1.5	E33209J	3DE	112000	149000	4600	6200	53.5	52	76.5	81	5	7	1.5	1.5	10.2	0.39	1.56	0.86	0.803	E33209J
	100	27.25	25	22	2	1.5	E30309J	2FB	113000	128000	4100	5400	55	59	86	93	3	5	2	1.5	5.9	0.35	1.74	0.96	1.01	E30309J
100	27.25	25	18	2	1.5	E30309DJ	7FB	95100	107000	3400	4700	55	56	79	96	3	9	2	1.5	-5.7	0.83	0.73	0.40	0.973	E30309DJ	
100	38.25	36	30	2	1.5	E32309J	2FD	146000	180000	4100	5500	55	56	82	93	3	8	2	1.5	11.4	0.35	1.74	0.96	1.43	E32309J	
50	72	15	15	12	0.6	0.6	E32910J	2BC	35900	56300	4900	6600	54.5	55	65	69	3	3	0.6	0.6	1.3	0.34	1.76	0.97	0.195	E32910J
	80	20	20	15.5	1	1	H-E32010J	3CC	65700	94500	4600	6100	55.5	56	72	77	4	4.5	1	1	2.3	0.42	1.42	0.78	0.389	H-E32010J
	80	24	24	19	1	1	E33010J	2CE	73000	110000	4600	6100	55.5	56	72	76	4	5	1	1	6.6	0.32	1.90	1.04	0.451	E33010J
	85	26	26	20	1.5	1.5	E33110J	3CE	89400	127000	4400	5900	58.5	56	74	81.5	4	6	1.5	1.5	5.4	0.41	1.46	0.80	0.594	E33110J
	90	21.75	20	17	1.5	1.5	H-E30210J	3DB	76500	91700	4300	5700	58.5	58	79	85	3	4.5	1.5	1.5	1.65	0.42	1.43	0.79	0.566	H-E30210J
	90	24.75	23	19	1.5	1.5	H-E32210J	3DC	85000	105000	4300	5700	58.5	58	78	85	3	5.5	1.5	1.5	4.1	0.42	1.43	0.79	0.643	H-E32210J
	90	32	32	24.5	1.5	1.5	H-E33210J	3DE	119000	167000	4300	5700	58.5	57	77	86.5	5	7.5	1.5	1.5	8.9	0.41	1.45	0.80	0.887	H-E33210J
	110	29.25	27	23	2.5	2	E30310J	2FB	137000	152000	3700	4900	62	65	95	102	3	6	2	2	6.4	0.35	1.74	0.96	1.32	E30310J
	110	29.25	27	19	2.5	2	E30310DJ	7FB	115000	133000	3100	4300	62	62	87	105	3	10	2	2	-5.8	0.83	0.73	0.40	1.25	E30310DJ
	110	42.25	40	33	2.5	2	E32310J	2FD	176000	220000	3700	5000	62	62	90	102	3	9	2	2	12.9	0.35	1.74	0.96	1.89	E32310J

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