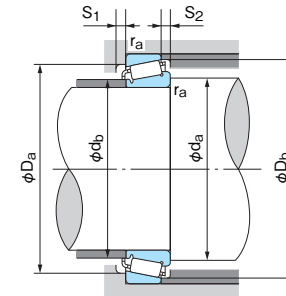
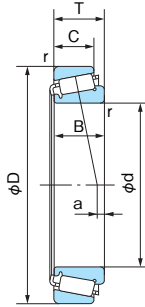


# Tapered Roller Bearings

## Metric Series

Bore Diameter: 55~65mm



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 <sub>1</sub>

Values e and Y<sub>1</sub> from table.

Static equivalent radial load

Larger value of following to be used:

$$P_0r = 0.5Fr + Y_0Fa$$

$$P_0r = Fr$$

Values Y<sub>0</sub> 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 <sup>-1</sup> )		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 <sub>1</sub> (min)	S <sub>2</sub> (min)	Cone ra (max)	Cup ra (max)			Y <sub>1</sub>	Y <sub>0</sub>		
55	80	17	17	14	1	1	E32911J	2BC	44600	73300	4400	5900	61	61	72	76	3	3	1	1	2.5	0.31	1.94	1.07	0.285	E32911J
	90	23	23	17.5	1.5	1.5	H-E32011J	3CC	84600	121000	4100	5500	63.5	63	81	86	4	5.5	1.5	1.5	3.2	0.41	1.48	0.81	0.569	H-E32011J
	90	27	27	21	1.5	1.5	E33011J	2CE	96500	149000	4100	5400	63.5	63	81	86	5	6	1.5	1.5	7.3	0.31	1.92	1.06	0.672	E33011J
	95	30	30	23	1.5	1.5	E33111J	3CE	116000	161000	4000	5300	63.5	62	83	91	5	7	1.5	1.5	7.5	0.37	1.60	0.88	0.868	E33111J
	100	22.75	21	18	2	1.5	E30211J	3DB	94600	113000	3900	5200	65	64	88	94	4	4.5	2	1.5	2.0	0.40	1.48	0.81	0.732	E30211J
	100	26.75	25	21	2	1.5	E32211J	3DC	107000	133000	3900	5200	65	63	87	95	4	5.5	2	1.5	3.7	0.40	1.48	0.81	0.863	E32211J
	100	35	35	27	2	1.5	E33211J	3DE	142000	189000	3900	5200	65	62	85	96	6	8	2	1.5	9.7	0.40	1.50	0.83	1.18	E33211J
	120	31.5	29	25	2.5	2	E30311J	2FB	149000	170000	3300	4500	67	71	104	111	4	6.5	2	2	6.0	0.35	1.74	0.96	1.65	E30311J
	120	31.5	29	21	2.5	2	E30311DJ	7FB	129000	148000	2900	4000	67	68	94	113	4	10.5	2	2	-6.9	0.83	0.73	0.40	1.59	E30311DJ
120	45.5	43	35	2.5	2	E32311J	2FD	200000	250000	3400	4500	67	68	99	111	4	10.5	2	2	13.1	0.35	1.74	0.96	2.38	E32311J	
60	85	17	17	14	1	1	E32912J	2BC	46200	78200	4100	5500	65.5	66	77	81	3	3	1	1	1.4	0.33	1.81	1.00	0.306	E32912J
	95	23	23	17.5	1.5	1.5	E32012J	4CC	86100	127000	3900	5200	68.5	67	85	91	4	5.5	1.5	1.5	2.0	0.43	1.39	0.77	0.621	E32012J
	95	27	27	21	1.5	1.5	E33012J	2CE	101000	162000	3900	5200	68.5	67	85	90	5	6	1.5	1.5	6.9	0.33	1.83	1.01	0.719	E33012J
	100	30	30	23	1.5	1.5	E33112J	3CE	118000	170000	3600	4900	68.5	67	88	96	5	7	1.5	1.5	6.3	0.40	1.51	0.83	0.923	E33112J
	110	23.75	22	19	2	1.5	E30212J	3EB	106000	127000	3500	4700	70	70	96	103	4	4.5	2	1.5	1.8	0.40	1.48	0.81	0.945	E30212J
	110	29.75	28	24	2	1.5	E32212J	3EC	132000	167000	3500	4700	70	69	95	104	4	5.5	2	1.5	4.6	0.40	1.48	0.81	1.19	E32212J
	110	38	38	29	2	1.5	E33212J	3EE	174000	239000	3600	4700	70	69	93	105	6	9	2	1.5	10.8	0.40	1.48	0.82	1.57	E33212J
	130	33.5	31	26	3	2.5	E30312J	2FB	173000	201000	3100	4100	74	77	112	120	4	7.5	2.5	2	6.6	0.35	1.74	0.96	2.08	E30312J
	130	33.5	31	22	3	2.5	E30312DJ	7FB	153000	179000	2600	3700	74	73	103	124	4	11.5	2.5	2	-7.3	0.83	0.73	0.40	2.01	E30312DJ
130	48.5	46	37	3	2.5	32312J	2FD	221000	275000	3100	4200	74	74	107	120	4	11.5	2.5	2	16.2	0.35	1.74	0.96	2.92	32312J	
65	90	17	17	14	1	1	E32913J	2BC	47400	83100	3900	5200	70.5	70	81	86	3	3	1	1	0.2	0.35	1.70	0.93	0.327	E32913J
	100	23	23	17.5	1.5	1.5	E32013J	4CC	90000	137000	3600	4800	73.5	72	90	97	4	5.5	1.5	1.5	0.5	0.46	1.31	0.72	0.664	E32013J
	100	27	27	21	1.5	1.5	E33013J	2CE	103000	169000	3600	4800	73.5	72	89	96	5	6	1.5	1.5	5.9	0.35	1.72	0.95	0.762	E33013J
	110	34	34	26.5	1.5	1.5	E33113J	3DE	152000	223000	3400	4600	73.5	73	96	106	6	7.5	1.5	1.5	8.1	0.39	1.55	0.85	1.33	E33113J
	120	24.75	23	20	2	1.5	E30213J	3EB	128000	156000	3200	4300	75	77	106	113	4	4.5	2	1.5	0.6	0.40	1.48	0.81	1.18	E30213J
	120	32.75	31	27	2	1.5	E32213J	3EC	157000	203000	3200	4300	75	76	104	115	4	5.5	2	1.5	6.1	0.40	1.48	0.82	1.58	E32213J
	120	41	41	32	2	1.5	E33213J	3EE	200000	277000	3200	4300	75	74	102	115	7	9	2	1.5	11	0.39	1.54	0.85	2.02	E33213J
	140	36	33	28	3	2.5	E30313J	2GB	204000	239000	2800	3800	79	83	122	130	4	8	2.5	2	6.7	0.35	1.74	0.96	2.56	E30313J
	140	36	33	23	3	2.5	E30313DJ	7GB	176000	209000	2400	3400	79	79	111	133	4	13	2.5	2	-8.3	0.83	0.73	0.40	2.44	E30313DJ
140	51	48	39	3	2.5	E32313J	2GD	276000	357000	2900	3900	79	80	117	130	4	12	2.5	2	16.3	0.35	1.74	0.96	3.64	E32313J	

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