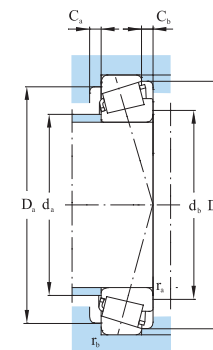
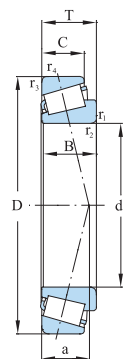


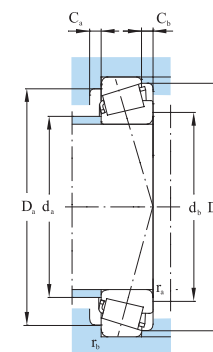
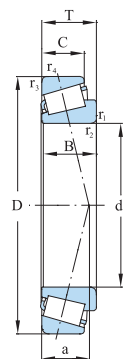
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355	
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series	
	mm							kN		r/min			
30302	15	42	14.25	13.0	11.0	1.0	1.0	21.6	20.5	9000	13000	2FB	
30203	17	40	13.25	12.0	11.0	1.0	1.0	20.9	22.2	9000	13000	2DB	
32203		40	17.25	16.0	14.0	1.0	1.0	27.3	28.3	9000	13000	2DD	
31303		47	15.25	14.0	10.5	1.0	1.0	23.9	23.5	7500	10000	7FB	
30303		47	15.25	14.0	12.0	1.0	1.0	27.5	25.7	8500	12000	2FB	
32303		47	20.25	19.0	16.0	1.0	1.0	34.5	35.2	8000	11000	7FD	
32004X		42	15.00	15.0	12.0	0.6	0.6	23.0	32.9	8500	12000	3CC	
30204	20	47	15.25	14.0	12.0	1.0	1.0	27.2	28.6	8000	11000	2DB	
32204		47	19.25	18.0	15.0	1.0	1.0	37.0	40.0	8000	11000	2DD	
30304		52	16.25	15.0	13.0	1.5	1.5	32.8	32.2	8000	11000	2FB	
32304		52	22.25	21.0	18.0	1.5	1.5	44.8	44.9	7500	10000	2FD	
320/22X	22	44	15.00	15.0	11.5	0.6	0.6	29.3	36.3	8000	11000	3CC	
32005X	25	47	15.00	15.0	11.5	0.6	0.6	26.0	39.5	8000	11000	4CC	
30205		52	16.25	15.0	13.0	1.0	1.0	33.6	38.1	7500	10000	3CC	
32205		52	19.25	18.0	16.0	1.0	1.0	41.6	45.2	7300	9800	2CD	
33005		47	17.00	17.0	14.0	1.0	1.0	32.8	43.1	8000	11000	2CE	
33205		52	22.00	22.0	18.0	1.0	1.0	49.3	58.2	6700	9000	2DE	
30305		62	18.25	17.0	15.0	1.5	1.5	49.1	46.4	6700	9000	2FB	
31305		62	18.25	17.0	13.0	1.5	1.5	42.2	43.8	5600	7500	7FB	
32305		62	25.25	24.0	20.0	1.5	1.5	64.7	67.6	6000	8000	2FD	
320/28X	28	52	16.00	16.0	12.0	1.0	1.0	37.2	46.3	4000	7000	4CC	
332/28		58	24.00	24.0	19.0	1.0	1.0	59.7	68.2	6700	8900	2DE	
32006X	30	55	17.00	17.0	13.0	1.0	1.0	32.9	50.8	6700	9000	4CC	
33006		55	20.00	20.0	16.0	1.0	1.0	44.0	59.3	6700	9000	2CE	
30206		62	17.25	16.0	14.0	1.0	1.0	42.6	48.2	6300	8500	3DB	
32206		62	21.25	20.0	17.0	1.0	1.0	51.0	61.8	6300	8500	3DC	
33206		62	25.00	25.0	19.5	1.0	1.0	59.7	68.2	5600	7500	2DE	
30306		72	20.75	19.0	16.0	1.5	1.5	61.7	61.1	5600	7500	2FB	
31306		72	20.75	19.0	14.0	1.5	1.5	53.2	57.3	5000	6700	7FB	
32306		72	28.75	27.0	23.0	1.5	1.5	85.3	94.2	5300	7000	2FD	
320/32X		32	58	17.00	17.0	13.0	1.0	1.0	38.3	48.9	6300	8500	4CC
332/32			65	26.00	26.0	20.5	1.0	1.0	75.0	89.8	6000	8000	2DE

Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
10	22.0	21	36	36	38.0	2	3.0	1.0	1.0	0.28	2.10	1.100	0.0950
10	23.0	23	34	34	37.0	2	2.0	1.0	1.0	0.35	1.70	0.900	0.0795
12	26.0	22	34	33	38.0	2	3.0	1.0	1.0	0.29	2.10	1.100	0.1020
13	25.0	23	41	40	42.0	2	3.0	1.0	1.0	0.83	0.72	0.400	0.1320
10	25.0	23	41	40	42.0	2	3.0	1.0	1.0	0.28	2.10	1.100	0.1310
12	24.0	23	41	39	43.0	3	4.0	1.0	1.0	0.28	2.10	1.100	0.1700
11	25.0	25	37	36	39.0	2	3.0	0.6	0.6	0.37	1.60	0.900	0.1050
11	27.0	26	41	40	43.0	2	3.0	1.0	1.0	0.35	1.70	0.900	0.1280
15	29.0	26	41	38	44.0	2	4.0	1.0	1.0	0.35	1.70	0.950	0.1630
11	28.0	27	45	44	47.0	2	3.0	1.0	1.0	0.30	2.00	1.100	0.1690
14	27.0	27	45	43	47.0	2	3.0	1.0	1.0	0.30	2.00	1.100	0.2330
11	27.0	27	39	38	41.0	3	3.5	0.6	0.6	0.40	1.50	0.800	0.1000
12	30.0	30	42	40	44.0	3	3.5	0.6	0.6	0.43	1.40	0.800	0.1220
13	31.0	31	46	44	48.0	2	3.0	1.0	1.0	0.37	1.60	0.900	0.1560
13	31.0	31	46	43	49.0	2	4.0	1.0	1.0	0.36	1.67	0.920	0.1840
11	29.0	33	42	41	45.0	3	3.0	0.6	0.6	2.10	1.10	0.131	0.1310
14	30.0	31	46	43	49.0	4	4.0	1.0	1.0	0.35	1.70	0.900	0.2300
13	34.0	32	55	54	57.0	2	3.0	1.0	1.0	0.30	2.00	1.100	0.2650
20	34.0	32	55	47	59.0	3	5.0	1.0	1.0	0.83	0.72	0.400	0.2660
16	33.0	32	55	52	57.0	3	5.0	1.0	1.0	0.30	2.00	1.100	0.3730
12	34.0	34	46	45	49.0	3	4.0	1.0	1.0	0.43	1.40	0.800	0.1500
16	34.0	34	52	49	55.0	5	5.0	1.0	1.0	0.34	1.77	0.970	0.2930
13	35.0	36	49	48	52.0	3	4.0	1.0	1.0	0.43	1.40	0.800	0.1810
13	39.0	35	49	48	53.0	3	4.0	1.0	1.0	0.29	2.10	1.100	0.2080
14	38.0	36	56	53	57.0	2	3.0	1.0	1.0	0.37	1.60	0.900	0.2410
15	37.0	36	56	52	58.0	3	4.0	1.0	1.0	0.37	1.60	0.900	0.2910
16	37.0	36	56	52	58.0	3	4.0	1.0	1.0	0.37	1.60	0.900	0.3700
15	41.0	37	65	62	66.0	3	4.5	1.0	1.0	0.31	1.90	1.100	0.3940
23	40.0	37	65	55	68.0	3	6.5	1.0	1.0	0.83	0.72	0.400	0.3980
19	39.0	37	65	59	66.0	3	5.5	1.0	1.0	0.31	1.90	1.100	0.5690
14	38.0	38	52	50	55.0	3	4.0	1.0	1.0	0.46	1.30	0.700	0.1900
17	38.0	38	59	55	62.0	5	5.5	1.0	1.0	0.35	1.73	0.950	0.3950

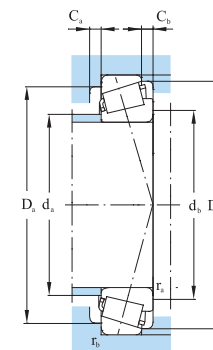
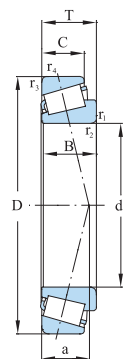
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
32907	35	55	14.00	14.0	11.5	0.6	0.6	27.4	39.0	6300	8500	2BD
32007X		62	18.00	18.0	14.0	1.0	1.0	39.2	57.6	6000	8000	4CC
33007		62	21.00	21.0	17.0	1.0	1.0	51.1	71.4	5600	8000	2CE
30207		72	18.25	17.0	15.0	1.5	1.5	53.5	60.8	5300	7000	3DB
32207		72	24.25	23.0	19.0	1.5	1.5	67.6	84.3	5300	7000	3DC
33207		72	28.00	28.0	22.0	1.5	1.5	87.0	107	4800	6300	2DE
30307		80	22.75	21.0	18.0	2.0	1.5	78.9	80.3	5000	7000	2FB
31307		80	22.75	21.0	15.0	2.0	1.5	69.0	74.7	4500	6000	7FB
32307	40	80	32.75	31.0	25.0	2.0	1.5	104	116	4800	6300	2FE
32908		62	15.00	15.0	12.0	0.6	0.6	34.0	47.0	5600	7500	2BC
32008X		68	19.00	19.0	14.5	1.0	1.0	49.0	69.1	5300	7000	3CD
33008		68	22.00	22.0	18.0	1.0	1.0	63.5	85.5	5300	7100	2BE
33108		75	26.00	26.0	20.5	1.5	1.5	83.6	108	5000	6700	2CE
30208		80	19.75	18.0	16.0	1.5	1.5	62.0	60.8	4800	6300	3DB
32208		80	24.75	23.0	19.0	1.5	1.5	76.8	94.7	4800	6300	3DC
33208		80	32.00	32.0	25.0	1.5	1.5	105	132	4300	5600	2DE
30308	45	90	25.25	23.0	20.0	2.0	1.5	95.1	105	4500	6000	2FB
31308		90	25.25	23.0	17.0	2.0	1.5	85.4	94.0	4000	5300	7FB
32308		90	35.25	33.0	27.0	2.0	1.5	116	149	4000	5300	2FD
32909		68	15.00	15.0	12.0	0.6	0.6	34.5	50.5	5000	6700	2BC
32009X		75	20.00	20.0	15.5	1.0	1.0	56.0	75.0	4800	6300	3CC
33009		75	24.00	24.0	19.0	1.0	1.0	68.9	94.0	4800	6300	2CE
33109		80	26.00	26.0	20.5	1.5	1.5	85.5	115	4500	6000	3CE
30209		85	20.75	19.0	16.0	1.5	1.5	71.0	80.1	4500	6000	3DB
32209	50	85	24.75	23.0	19.0	1.5	1.5	82.5	131	4500	6000	3DC
33209		85	32.00	32.0	25.0	1.5	1.5	111	142	4000	5300	3DE
30309		100	27.25	25.0	22.0	2.0	1.5	109	129	4000	5300	2FB
31309		100	27.25	25.0	18.0	2.0	1.5	96.3	108	3400	4500	7FB
32309		100	38.25	36.0	30.0	2.0	1.5	151	181	3600	4800	2FD
32910		72	15.00	15.0	12.0	0.6	0.6	33.2	51.3	4500	6300	2BC
32010X		80	20.00	20.0	15.5	1.0	1.0	59.5	82.3	4500	6300	3CC
33010		80	24.00	24.0	19.0	1.0	1.0	73.1	104	4500	6000	2CE

Acting range a	Abutment and fillet dimensions										Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀		
	mm													
mm	mm													kg
11	43.0	40	50	50	53.0	3	2.5	0.6	0.6	0.29	2.10	1.100	0.1230	
15	41.0	41	56	54	59.0	4	4.0	1.0	1.0	0.46	1.30	0.700	0.2330	
14	40.0	44	56	55	60.0	4	4.0	1.0	1.0	0.31	2.00	1.100	0.2670	
15	44.0	42	65	62	67.0	3	3.0	1.0	1.0	0.37	1.60	0.900	0.3400	
18	43.0	42	65	61	67.0	3	5.0	1.0	1.0	0.37	1.60	0.900	0.4510	
17	42.0	42	65	61	68.0	5	6.0	1.0	1.0	0.35	1.70	0.900	0.5400	
17	46.0	44	71	70	74.0	3	4.5	1.5	1.5	0.31	1.90	1.100	0.5200	
26	45.0	44	71	62	76.0	3	7.5	7.5	1.5	0.83	0.72	0.400	0.5200	
20	44.0	44	71	66	74.0	4	7.5	1.5	1.5	0.31	1.90	1.100	0.7530	
12	44.0	48	57	57	60.0	3	3.0	0.6	0.6	0.29	2.10	1.100	0.1610	
15	46.0	46	62	60	65.0	4	4.5	1.0	1.0	0.37	1.60	0.900	0.2770	
15	45.0	49	62	61	66.0	4	4.0	1.0	1.0	0.28	2.10	1.200	0.3220	
18	47.0	47	68	65	71.0	4	5.5	1.0	1.0	0.35	1.70	0.900	0.5100	
17	49.0	47	73	69	74.0	3	3.5	1.0	1.0	0.37	1.60	0.900	0.4310	
19	49.0	47	73	68	75.0	3	5.5	1.0	1.0	0.37	1.60	0.900	0.5410	
21	47.0	47	73	68	75.0	3	5.5	1.0	1.0	0.37	1.60	0.900	0.7700	
20	48.0	50	75	70	80.0	5	5.0	1.5	1.5	0.35	1.70	0.900	0.7610	
29	53.0	49	81	77	82.0	3	5.0	1.5	1.5	0.35	1.70	0.900	0.7380	
23	51.0	49	81	71	86.0	3	8.0	1.5	1.5	0.83	0.72	0.400	1.0600	
12	50.0	53	63	62	65.0	3	3.0	0.6	0.6	0.32	1.90	1.000	0.1870	
16	52.0	51	69	67	72.0	4	4.5	1.0	1.0	0.40	1.50	0.800	0.3500	
16	54.0	51	69	67	72.0	4	5.0	1.0	1.0	0.29	2.00	1.100	0.3980	
19	52.0	52	73	69	77.0	4	5.5	1.0	1.0	0.37	1.60	0.900	0.5600	
18	54.0	52	78	74	80.0	3	4.5	1.0	1.0	0.40	1.50	0.800	0.4770	
20	54.0	52	78	73	80.0	3	5.5	1.0	1.0	0.40	1.50	0.800	0.5940	
22	52.0	52	78	72	81.0	5	7.0	1.0	1.0	0.40	1.50	0.800	0.8200	
21	59.0	54	91	86	92.0	3	5.0	1.5	1.5	0.35	1.70	0.900	1.0100	
32	57.0	54	91	79	95.0	4	9.0	1.5	1.5	0.83	0.72	0.400	0.9450	
25	57.0	54	91	82	93.0	4	8.0	1.5	1.5	0.35	1.70	0.900	1.4100	
14	54.0	58	67	66	70.0	3	3.0	0.6	0.6	0.34	1.80	0.970	0.1910	
18	57.0	56	74	72	77.0	4	4.5	1.0	1.0	0.43	1.40	0.800	0.3800	
17	56.0	56	74	72	76.0	4	5.0	1.0	1.0	0.31	1.90	1.100	0.4500	

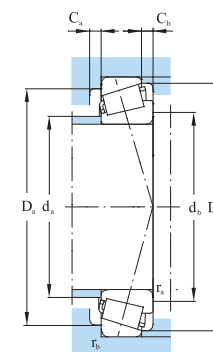
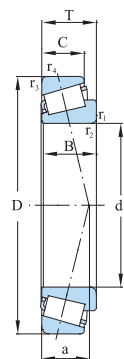
Single row tapered roller bearings metric



Designations	3.Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
33110	50	85	26.00	26.0	20.0	1.5	1.5	87.7	121	4300	5600	3CE
30210		90	21.75	20.0	17.0	1.5	1.5	79.1	102	4300	5600	3DB
32210		90	24.75	23.0	19.0	1.5	1.5	88.0	117	4300	5600	3DC
33210		90	32.00	32.0	24.5	1.5	1.5	119	161	3800	5000	3DE
30310		110	29.25	27.0	23.0	2.5	2.0	134	150	3600	4800	2FB
31310		110	29.25	27.0	19.0	2.5	2.0	112	123	3200	4300	7FB
32310	55	110	42.25	40.0	33.0	2.5	2.0	161	127	3200	4300	2FD
32911		80	17.00	17.0	14.0	1.0	1.0	44.6	59.0	4300	5600	2BC
32011X		90	23.00	23.0	17.5	1.5	1.5	81.1	118	4000	5300	3CC
33011		90	27.00	27.0	21.0	1.5	1.5	95.8	146	4000	5300	2CE
33111		95	30.00	30.0	23.0	1.5	1.5	121	164	3800	5000	3CE
30211		100	22.75	31.0	18.0	2.0	1.5	92.7	117	3800	5000	3DB
32211		100	26.75	25.0	21.0	2.0	1.5	112	139	3800	5000	3DC
33211		100	35.00	35.0	27.0	2.0	1.5	152	206	2200	3400	3DE
30311		120	31.50	29.0	25.0	2.5	2.0	151	183	3200	4300	2FB
31311		120	31.50	29.0	25.0	2.5	2.0	215	269	2800	3800	7FB
32311		120	45.50	43.0	35.0	2.5	2.0	215	269	3000	4000	2FD
32912	60	85	17.00	17.0	14.0	1.0	1.0	45.9	76.5	3800	5300	2BC
32012X		95	23.00	23.0	17.5	1.5	1.5	79.6	115	3800	5000	4CC
33012		95	27.00	27.0	21.0	1.5	1.5	97.6	153	3800	5000	2CE
33112		100	30.00	30.0	23.0	1.5	1.5	124	173	3600	4800	3CE
30212		110	23.75	22.0	19.0	2.0	1.5	108	127	3400	4500	3EB
32212		110	29.75	28.0	24.0	2.0	1.5	139	176	3400	4500	3EC
33212		110	38.00	38.0	29.0	2.0	1.5	177	244	3000	4000	3EE
30312		130	33.50	31.0	26.0	3.0	2.5	178	200	3000	4000	2FB
31312		130	33.50	31.0	22.0	3.0	2.5	151	167	2600	3600	7FB
32312		130	48.50	46.0	37.0	3.0	2.5	223	301	2600	3600	2FD
32913	65	90	17.00	17.0	14.0	1.0	1.0	48.1	83.4	3600	5000	2BC
2007113		100	23.30	22.0	19.0	1.5	1.5	62.0	93.0	3400	4500	—
32013X		100	23.00	23.0	17.5	1.5	1.5	80.1	120	3400	4500	4CC
33013		100	27.00	27.0	21.0	1.5	1.5	99.1	160	3400	4500	2CE
33113X2		110	30.50	30.0	24.0	3.0	1.8	104	166	3200	4300	—

Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
20	57.0	57	78	74	82.0	4	6.0	1.0	1.0	0.40	1.50	0.800	0.5900
20	58.0	57	83	79	85.0	3	4.5	1.0	1.0	0.43	1.40	0.800	0.5590
21	58.0	57	83	78	85.0	3	5.5	1.0	1.0	0.43	1.40	0.800	0.6380
23	57.0	57	83	77	87.0	5	7.5	1.0	1.0	0.40	1.50	0.800	0.9000
23	65.0	60	100	95	102.0	4	6.0	2.0	2.0	0.35	1.70	0.900	1.3000
35	62.0	60	100	87	104.0	4	10.0	2.0	2.0	0.83	0.72	0.400	1.2400
28	63.0	60	90	100	102.0	5	9.0	2.0	2.0	0.35	1.70	0.900	1.8700
14	60.0	64	74	73	77.0	4	3.0	1.0	1.0	0.31	1.90	1.100	0.2750
20	63.0	62	83	81	86.0	4	5.5	1.0	1.0	0.40	1.50	0.800	0.5500
19	63.0	62	83	81	86.0	5	6.0	1.0	1.0	0.31	1.90	1.100	0.6700
22	63.0	62	88	83	91.0	5	7.0	1.0	1.0	0.37	1.60	0.900	0.8600
21	64.0	64	91	88	94.0	4	4.5	1.5	1.5	0.40	1.50	0.800	0.7350
22	64.0	64	91	87	95.0	4	5.5	1.5	1.5	0.40	1.50	0.800	0.8630
25	63.0	64	91	85	96.0	6	8.0	1.5	1.5	0.40	1.50	0.800	1.2000
25	71.0	65	110	104	111.0	4	6.5	2.0	2.0	0.35	1.70	0.900	1.6600
38	68.0	65	110	94	113.0	4	10.5	2.0	2.0	0.83	0.72	0.400	1.5600
30	68.0	65	110	99	111.0	5	10.5	2.0	2.0	0.35	1.70	0.800	2.4100
15	65.0	69	79	78	83.0	4	3.0	1.0	1.0	0.33	1.80	1.000	0.2940
20	67.0	67	88	85	91.0	4	5.0	1.0	1.0	0.43	1.40	0.800	0.5910
20	67.0	67	88	85	90.0	5	6.0	1.0	1.0	0.33	1.80	1.000	0.7100
23	67.0	67	93	88	96.0	5	7.0	1.0	1.0	0.40	1.50	0.800	0.9200
22	70.0	69	101	96	103.0	4	4.5	1.5	1.5	0.40	1.50	0.800	0.9070
25	69.0	69	95	104	101.0	4	5.5	1.5	1.5	0.40	1.50	0.800	1.1700
24	69.0	69	101	93	105.0	6	9.0	1.5	1.5	0.40	1.50	0.800	1.6000
27	77.0	72	118	112	120.0	5	7.5	2.0	2.0	0.35	1.70	0.900	2.0100
40	74.0	72	118	103	123.0	5	11.5	2.0	2.0	0.83	0.72	0.400	1.9300
32	74.0	72	118	107	120.0	6	11.5	2.0	2.0	0.35	1.70	0.900	2.9600
16	70.0	74	84	82	88.0	4	3.0	1.0	1.0	0.35	1.70	0.930	0.3170
20	72.0	72	93	90	97.0	4	5.5	—	—	0.35	1.70	0.940	0.6290
22	72.0	72	93	90	97.0	4	5.5	1.0	1.0	0.46	1.30	0.700	0.6270
21	72.0	72	93	89	96.0	5	6.0	1.0	1.0	0.35	1.70	0.900	0.7800
25	75.0	77	110	93	105.0	3.5	6.2	—	—	0.39	1.60	0.850	1.1700

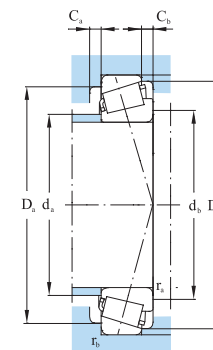
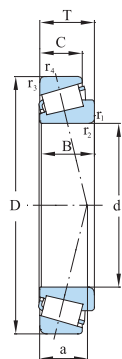
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
7813	65	110	30.35	30.0	24.0	3.0	1.8	99.0	155	3200	4300	—
7813Y		110	30.35	30.0	24.0	3.0	1.8	91.0	140	3200	4300	—
33113		110	34.00	34.0	26.5	1.5	1.5	156	222	3000	4000	3DE
30213		120	24.75	23.0	20.0	2.0	1.5	121	150	3000	4000	3EB
32213		120	32.75	31.0	27.0	2.0	1.5	169	219	3000	4000	3EC
7513		120	33.00	31.0	27.0	1.8	1.8	118	163	3000	4000	—
33213/YB2		120	41.00	41.0	32.0	2.0	1.5	183	280	2800	3800	—
33213/HA		120	41.00	41.0	32.0	2.0	1.5	183	280	2800	3800	—
33213		120	41.00	41.0	32.0	2.0	1.5	205	272	2800	3800	3EE
7713E		130	45.00	43.0	35.0	3.0	2.0	193	280	2800	3800	—
30313		140	36.00	33.0	28.0	3.0	2.5	204	232	2600	3600	2GB
31313		140	36.00	33.0	23.0	3.0	2.5	161	194	2200	3200	7GB
27713E		140	40.00	39.0	26.0	3.5	2.0	200	240	2600	3600	—
32313		140	51.00	48.0	39.0	3.0	2.5	256	345	2400	3400	2GD
807713		150	53.50	54.0	44.5	2.3	2.3	269	390	2400	3400	—
32914	70	100	20.00	20.0	16.0	1.0	1.0	72.2	117	3200	4500	2BC
32014X		110	25.00	25.0	19.0	1.5	1.5	101	150	3200	4300	4CC
33014		110	31.00	31.0	25.5	1.5	1.5	129	209	3200	4300	2CE
33114		120	37.00	37.0	29.0	2.0	1.5	181	255	3000	4000	3DE
7714		120	45.00	42.0	37.0	2.5	2.5	125	198	3000	4000	—
30214		125	26.25	24.0	21.0	2.0	1.5	138	168	3000	4000	3EB
32214		125	33.25	31.0	27.0	2.0	1.5	160	223	2800	3800	3EC
33214		125	41.00	41.0	32.0	2.0	1.5	211	293	2800	3800	3EE
30314		150	38.00	35.0	30.0	3.0	2.5	213	261	2400	3400	2GB
31314		150	38.00	35.0	25.0	3.0	2.5	195	222	2000	3000	7GB
32314		150	54.00	51.0	42.0	3.0	2.5	295	404	2200	3200	2GD
32915		75	105	20.00	20.0	16.0	1.0	1.0	73.0	121	3200	4300
32015X	115		25.00	25.0	19.0	1.5	1.5	101	162	3000	4000	4CC
33015	115		31.00	31.0	25.5	1.5	1.5	131	217	3000	4000	2CE
33115	125		37.00	37.0	29.0	2.0	1.5	186	270	2800	3800	3DE
30215	130		27.25	25.0	22.0	2.0	1.5	142	177	2800	3800	4DB
32215	130		33.25	31.0	27.0	2.0	1.5	160	222	2600	3600	4DC

Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
25	76.0	79	105	94	106.0	3.5	6.4	—	—	0.40	1.50	0.820	1.1000
25	76.0	77	110	94	106.0	3.5	6.4	—	—	0.40	1.50	0.820	1.1000
26	74.0	72	103	96	106.0	6	7.5	1.0	1.0	0.40	1.50	0.800	1.3000
24	78.0	74	111	106	113.0	4	4.5	1.5	1.5	0.40	1.50	0.800	1.1500
28	76.0	74	111	104	115.0	4	5.5	1.5	1.5	0.40	1.50	0.800	1.5600
26	75.0	74	111	104	115.0	3.5	6.0	—	—	0.37	1.60	0.890	1.5000
30	76.0	74	113	100	116.0	3.5	9.0	—	—	0.37	1.60	0.890	2.0200
30	76.0	74	113	100	116.0	3.5	9.0	—	—	0.37	1.60	0.890	2.0200
30	75.0	74	111	102	115.0	6	9.0	1.5	1.5	0.40	1.50	0.800	2.0000
30	80.0	66	122	108	122.0	3.5	10.0	—	—	0.33	1.80	0.990	2.6400
29	84.0	77	128	122	130.0	5	8.0	2.0	2.0	0.35	1.70	0.900	2.4700
44	80.0	77	128	111	132.0	5	13.0	2.0	2.0	0.83	0.72	0.400	2.3500
42	80.0	77	132	109	133.0	3.5	14.0	—	—	0.73	0.80	0.450	2.7700
34	80.0	77	128	117	130.0	6	12.0	2.0	2.0	0.35	1.70	0.900	3.6400
37	86.0	75	150	117	137.0	3.5	9.0	—	—	0.36	1.70	0.900	4.4300
18	76.0	79	94	93	98.0	4	4.0	1.0	1.0	0.32	1.90	1.000	0.4870
24	78.0	77	103	98	105.0	5	6.0	1.0	1.0	0.43	1.40	0.800	0.8770
28	78.0	77	103	99	105.0	5	5.5	1.0	1.0	0.28	2.10	1.100	1.1000
25	80.0	79	111	104	115.0	6	8.0	1.5	1.5	0.37	1.60	0.900	1.7000
32	79.0	80	111	99	115.0	3.5	8.0	—	—	0.39	1.50	0.840	1.8900
26	82.0	79	116	110	118.0	4	5.0	1.5	1.5	0.43	1.40	0.800	1.2900
28	80.0	79	116	108	119.0	4	6.0	1.5	1.5	0.43	1.40	0.800	1.6500
31	82.0	79	116	110	118.0	4	5.0	1.5	1.5	0.43	1.40	0.800	2.1100
31	90.0	82	138	130	140.0	5	8.0	2.0	2.0	0.35	1.70	0.900	3.0400
47	85.0	82	138	118	141.0	5	13.0	2.0	2.0	0.83	0.72	0.400	2.9000
37	86.0	82	138	125	140.0	6	12.0	2.0	2.0	0.35	1.70	0.900	4.4100
19	81.0	81	99	98	101.0	4	4.0	1.0	1.0	0.33	1.80	1.000	0.5200
25	83.0	82	108	103	110.0	5	6.0	1.0	1.0	0.46	1.30	0.700	0.9290
23	84.0	82	108	104	110.0	6	5.5	1.0	1.0	0.30	2.00	1.100	1.1500
29	84.0	84	116	109	120.0	6	8.0	1.5	1.5	0.40	1.50	0.800	1.8000
27	86.0	84	121	115	124.0	4	5.0	1.5	1.5	0.43	1.40	0.800	1.3800
30	85.0	84	121	114	125.0	4	6.0	1.5	1.5	0.43	1.40	0.800	1.7500

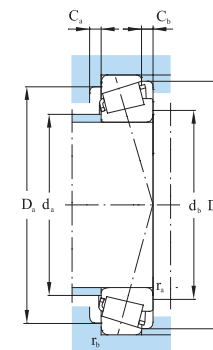
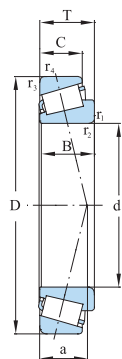
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
7515	75	130	33.50	31.0	27.0	1.8	1.8	126	184	2600	3600	—
33215		130	41.00	41.0	31.0	2.0	1.5	218	310	2400	3400	3EE
7815EK		135	44.00	45.0	35.0	3.0	2.5	182	292	2600	3600	—
7815		135	44.50	45.0	35.0	2.3	2.3	175	277	2600	3600	—
31315		160	40.00	37.0	26.0	3.0	2.5	217	260	1900	2800	7GB
30315		160	40.00	37.0	31.0	3.0	2.5	248	308	2200	3200	2GB
32315	80	160	58.00	55.0	45.0	3.0	2.5	343	439	2000	3000	2GD
32916		110	20.00	20.0	16.0	1.0	1.0	73.9	126	3000	4000	2BC
32016X		125	29.00	29.0	22.0	1.5	1.5	136	207	2600	3600	3CC
33016		125	36.00	36.0	29.5	1.5	1.5	174	286	2600	3600	2CE
7716E		130	32.00	31.0	25.0	3.5	2.0	137	218	2400	3400	—
33116		130	37.00	37.0	29.0	2.0	1.5	192	283	2600	3600	3DE
30216		140	28.75	26.0	22.0	2.5	2.0	154	202	2400	3400	3EB
7516		140	35.50	33.0	28.0	2.3	2.3	147	216	2400	3400	—
32216		140	35.25	33.0	28.0	2.5	2.0	210	279	2400	3400	3EC
33216X2		140	45.00	45.0	36.5	3.0	2.5	215	348	2600	3600	—
33216		140	46.00	46.0	35.0	2.0	2.0	262	380	2200	3200	3EE
31316		170	42.50	39.0	27.0	3.0	2.5	231	263	1900	2800	7GB
30316		170	42.50	39.0	33.0	3.0	2.5	289	337	2000	3000	2GB
32316		170	61.50	58.0	48.0	3.0	2.5	371	514	1900	2800	2GD
32917	85	120	23.00	23.0	18.0	1.5	1.5	97.5	160	2800	3800	2BC
32017X		130	29.00	29.0	22.0	1.5	1.5	140	215	2400	3400	4CC
33017		130	36.00	36.0	29.5	1.5	1.5	177	299	2600	3600	2CE
33117		140	41.00	41.0	32.0	2.5	2.0	229	341	2400	3400	3DE
30217		150	30.50	28.0	24.0	2.5	2.0	168	221	2200	3200	3EB
32217		150	38.50	36.0	30.0	2.5	2.0	221	324	2200	3200	3EC
33217		150	49.00	49.0	37.0	2.5	2.0	285	422	2000	3000	3EE
31317		180	44.50	41.0	28.0	4.0	3.0	242	285	1800	2600	7GB
30317		180	44.50	41.0	34.0	4.0	3.0	316	371	1900	2800	2GB
32317		180	63.50	60.0	49.0	4.0	3.0	439	576	1800	2600	2GD
32918	90	125	23.00	23.0	18.0	1.5	1.5	100	73.0	2600	3600	2BC
2007118		140	32.40	30.0	26.0	2.0	1.5	136	196	2200	3200	—

Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
29	87.0	83	125	110	123.0	4.5	6.5	—	—	0.41	1.50	0.810	1.7400
32	84.0	84	121	111	125.0	6	10.0	1.5	1.5	0.43	1.40	0.800	2.2500
33	87.0	87	126	110	128.0	4.5	9.0	—	—	0.40	1.50	0.820	2.6600
33	87.0	85	135	110	128.0	4.5	9.5	—	—	0.40	1.50	0.820	2.5800
50	91.0	87	148	127	151.0	6	14.0	2.0	2.0	0.83	0.72	0.400	3.4300
32	96.0	87	148	139	149.0	5	9.0	2.0	2.0	0.35	1.70	0.900	3.6300
38	92.0	87	148	133	149.0	7	13.0	2.0	2.0	0.35	1.70	0.900	5.2700
20	85.0	89	104	102	108.0	4	4.0	1.0	1.0	0.35	1.70	0.940	0.5400
27	90.0	87	118	112	120.0	6	7.0	1.0	1.0	0.43	1.40	0.800	1.2800
26	90.0	87	118	112	119.0	6	6.5	1.0	1.0	0.28	2.10	1.100	1.6500
27	91.0	81	122	113	125.0	4.5	7.0	—	—	0.38	1.60	0.880	1.6000
30	89.0	89	121	114	126.0	6	8.0	1.5	1.5	0.43	1.40	0.800	1.9000
28	92.0	90	130	124	132.0	4	6.0	2.0	2.0	0.43	1.40	0.800	1.7000
31	94.0	90	140	119	132.0	4.5	7.5	—	—	0.40	1.50	0.820	2.1300
32	91.0	90	130	122	134.0	5	7.0	2.0	2.0	0.43	1.40	0.800	2.1700
30	94.0	92	131	120	133.0	4.5	8.5	—	—	0.28	2.20	1.190	2.7700
35	89.0	90	130	119	135.0	7	11.0	2.0	2.0	0.43	1.40	0.800	2.9000
53	97.0	92	158	134	159.0	6	15.5	2.0	2.0	0.83	0.72	0.400	4.0900
34	102.0	92	158	148	159.0	5	9.5	2.0	2.0	0.35	1.70	0.900	4.3500
41	98.0	92	158	142	159.0	7	13.5	2.0	2.0	0.35	1.70	0.900	6.4100
21	92.0	96	111	111	117.0	5	5.0	1.0	1.0	0.33	1.80	1.000	0.7810
28	94.0	92	123	117	125.0	6	7.0	1.0	1.0	0.44	1.35	0.800	1.3400
26	94.0	92	123	118	125.0	6	6.5	1.0	1.0	0.30	2.00	1.100	1.7500
32	95.0	95	130	122	135.0	7	9.0	2.0	2.0	0.40	1.50	0.800	2.4500
31	97.0	95	140	132	141.0	5	6.5	2.0	2.0	0.43	1.40	0.800	2.0800
34	97.0	95	140	130	142.0	5	8.5	2.0	2.0	0.43	1.40	0.800	2.7300
37	96.0	95	140	128	144.0	7	12.0	2.0	2.0	0.43	1.40	0.800	3.7000
55	103.0	99	166	143	169.0	6	16.5	2.5	2.5	0.83	0.72	0.400	4.6000
36	107.0	99	166	156	167.0	6	10.5	2.5	2.5	0.35	1.70	0.900	5.0500
44	103.0	99	166	150	167.0	7	14.5	2.5	2.5	0.35	1.70	0.900	7.4000
22	97.0	101	116	116	122.0	5	5.0	1.0	1.0	0.34	1.80	0.960	0.8170
23	100.0	99	131	125	134.0	6	8.0			0.34	1.80	0.970	1.7100

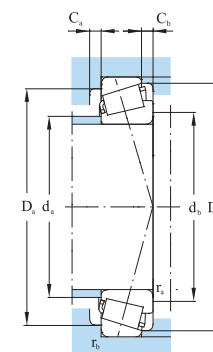
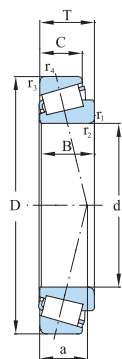
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1.2} min	r _{3.4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
32018X	90	140	32.00	32.0	24.0	2.0	1.5	163	248	2200	3200	3CC
33018		140	39.00	39.0	32.5	2.0	1.5	217	355	2200	3200	2CE
33118X2		150	38.50	36.0	30.0	2.5	2.0	190	310	2000	3000	—
33118/YB2		150	45.00	45.0	35.0	2.5	2.0	220	390	2000	3000	—
33118		150	45.00	45.0	35.0	2.5	2.0	265	395	2000	3000	3DE
33118/HA		150	45.00	45.0	35.0	2.5	2.0	270	424	2000	3000	—
30218		160	32.50	30.0	26.0	2.5	2.0	187	244	2000	3000	3FB
7518		160	43.00	40.0	34.0	2.3	2.3	197	293	2000	3000	—
7718		160	50.00	46.0	39.0	3.0	3.0	214	321	2000	3000	—
32218		160	42.50	40.0	34.0	2.5	2.0	257	374	2000	3000	3FC
7818		170	62.00	59.5	49.0	2.5	2.5	327	524	2000	3000	—
31318		190	46.50	43.0	30.0	4.0	3.0	264	315	1700	2400	7GB
30318		190	46.50	43.0	36.0	4.0	3.0	337	429	1800	2600	2GB
32318		190	67.50	64.0	53.0	4.0	3.0	490	651	1700	2400	2GD
32919	95	130	23.00	23.0	18.0	1.5	1.5	102	177	2400	3400	2BC
2007119		145	32.40	30.0	26.0	2.0	1.5	146	248	2200	3200	—
32019X		145	32.00	32.0	24.0	2.0	1.5	166	258	2200	3200	4CC
33019		145	39.00	39.0	32.5	2.0	1.5	212	370	2200	3200	2CE
7819		160	47.00	47.0	38.0	3.0	3.0	260	460	2200	3200	—
7819E		160	47.00	47.0	38.0	3.0	2.5	295	435	2200	3200	—
30219		170	34.50	32.0	27.0	3.0	2.5	235	296	1900	2800	3FB
32219		170	45.50	43.0	37.0	3.0	2.5	315	436	1900	2800	3FC
31319		200	49.50	45.0	32.0	4.0	3.0	302	383	1700	2400	7GB
30319		200	49.50	45.0	38.0	4.0	3.0	283	459	1800	2600	2GB
32319		200	71.50	67.0	55.0	4.0	3.0	507	719	1700	2400	2GD
2007920		140	25.00	25.0	20.0	1.5	1.5	93.0	167	2000	3000	—
32920		140	25.00	25.0	20.0	1.5	1.5	130	218	2200	3200	2CC
32020X		150	32.00	32.0	24.0	2.0	1.5	169	265	2000	3000	4CC
33020		150	39.00	39.0	32.5	2.0	1.5	226	385	2000	3000	2CE
30220	100	180	37.00	34.0	29.0	3.0	2.5	235	296	1900	2800	3FB
32220		180	49.00	46.0	39.0	3.0	2.5	331	496	1800	2600	3FC
33220		180	63.00	63.0	48.0	3.0	2.5	444	656	1700	2400	3FE

Acting range a	Abutment and fillet dimensions										Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀		
	mm													
30	100.0	99	131	125	134.0	6	8.0	1.5	1.5	0.43	1.40	0.800	1.7700	
27	100.0	99	131	127	135.0	7	6.5	1.5	1.5	0.27	2.20	1.300	2.2000	
34	103.0	100	142	130	145.0	4.5	8.5	—	—	0.42	1.40	0.790	2.5700	
35	104.0	100	142	127	145.0	4.5	10.0	—	—	0.40	1.50	0.830	3.2200	
35	101.0	100	140	130	144.0	7	10.0	2.0	2.0	0.40	1.50	0.800	3.1000	
35	102.0	100	142	128	145.0	4.5	10.0	—	—	0.40	1.50	0.830	3.1500	
33	104.0	100	150	140	150.0	5	6.5	2.0	2.0	0.43	1.40	0.800	2.6100	
35	106.0	100	160	135	151.0	4.5	9.0	—	—	0.39	1.60	0.850	3.3600	
35	103.0	102	149	133	149.0	4.5	11.0	—	—	0.34	1.80	0.970	3.8200	
37	102.0	100	150	138	152.0	5	8.5	2.0	2.0	0.43	1.40	0.800	3.5200	
42	107.0	100	161	139	161.0	4.5	13.0	—	—	0.36	1.70	0.920	6.0400	
22	109.0	104	176	151	179.0	5	16.5	2.5	2.5	0.83	0.72	0.400	5.8170	
38	113.0	104	176	165	176.0	6	10.5	2.5	2.5	0.35	1.70	0.900	6.0100	
45	109.0	104	176	157	177.0	7	14.5	2.5	2.5	0.35	1.70	0.900	8.8500	
23	102.0	106	121	121	127.0	5	5.0	1.0	1.0	0.36	1.70	0.920	0.8580	
33	105.0	104	136	130	140.0	6	8.0	—	—	0.36	1.70	0.930	1.8000	
31	105.0	104	136	130	139.0	6	8.0	1.5	1.5	0.44	1.35	0.800	1.8400	
28	104.0	104	131	136	139.0	7	6.5	1.5	1.5	0.28	2.10	1.100	2.3000	
35	108.0	107	149	137	153.0	4.5	9.0	—	—	0.34	1.80	0.970	3.7900	
28	67.0	107	151	96	110.0	4.5	9.0	—	—	0.28	2.20	1.190	3.7300	
34	110.0	107	158	149	159.0	5	7.5	2.0	2.0	0.43	1.40	0.800	3.1500	
39	109.0	107	158	145	161.0	5	8.5	2.0	2.0	0.43	1.40	0.800	4.3000	
62	114.0	109	186	157	187.0	5	17.5	2.5	2.5	0.83	0.72	0.400	6.9500	
40	118.0	109	186	172	184.0	6	11.5	2.5	2.5	0.35	1.70	0.900	6.9100	
49	115.0	109	186	166	186.0	8	16.5	2.5	2.5	0.35	1.70	0.900	11.000	
24	110.0	108	133	128	136.0	7	5.0	—	—	0.33	1.80	1.000	1.1300	
24	109.0	111	132	132	137.0	5	5.0	1.0	1.0	0.33	1.80	1.000	1.1400	
32	110.0	109	141	134	144.0	6	8.0	1.5	1.5	0.46	1.30	0.700	1.9100	
29	109.0	109	141	135	143.0	7	6.5	1.5	1.5	0.28	2.10	1.100	2.4000	
36	116.0	112	168	157	168.0	5	8.0	2.0	2.0	0.43	1.40	0.800	3.7700	
42	115.0	112	168	154	171.0	5	10.0	2.0	2.0	0.43	1.40	0.800	5.2700	
43	112.0	112	168	151	172.0	10	15.0	2.0	2.0	0.40	1.50	0.800	6.9500	

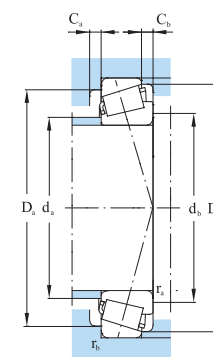
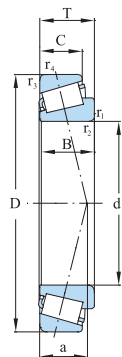
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN	r/min			
30320	100	215	51.50	47.0	39.0	4.0	3.0	420	503	1700	2400	2GB
31320		215	56.50	51.0	35.0	4.0	3.0	361	467	1600	2200	7GB
32320		215	77.50	73.0	60.0	4.0	3.0	686	849	1600	2200	2GB
32921	105	145	25.00	25.0	20.0	1.5	1.5	131	231	2200	3000	2CC
2007121		160	35.40	33.0	28.0	2.5	2.0	155	256	1800	2600	—
32021X		160	35.00	35.0	26.0	2.5	2.0	196	309	1900	2800	4DC
33021		160	43.00	43.0	34.0	2.5	2.0	226	385	1900	2800	2DE
7221E		190	39.00	36.0	30.0	3.0	2.5	265	368	1800	2600	—
30221		190	39.00	36.0	30.0	3.0	2.5	297	385	1800	2600	3FB
32221		190	53.00	50.0	43.0	3.0	2.5	372	567	1800	2600	3FC
7721		215	78.00	73.0	60.0	3.0	3.0	500	755	1900	2800	—
30321		225	53.50	49.0	41.0	4.0	3.0	449	538	1600	2200	2GB
31321		225	58.00	53.0	36.0	4.0	3.0	386	502	1500	2000	7GB
32321		225	81.50	77.0	63.0	4.0	3.0	740	921	1500	2000	2GD
2007922	110	150	25.40	24.0	20.0	1.5	1.5	80.0	138	2000	3000	—
32922		150	25.00	25.0	20.0	1.5	1.5	132	238	2200	2800	2CC
2007122		170	38.40	36.0	31.0	2.5	2.0	180	297	1800	2600	—
32022X		170	38.00	38.0	29.0	2.5	2.0	228	358	1800	2600	4DC
33022		170	47.00	47.0	37.0	2.5	2.0	288	501	1800	2600	2DE
33122		180	56.00	56.0	43.0	2.5	2.0	369	585	1800	2600	3EF
30222		200	41.00	38.0	32.0	3.0	2.5	328	434	1700	2400	3FB
32222		200	56.00	53.0	46.0	3.0	2.5	408	625	1700	2400	3FC
30322		240	54.50	50.0	42.0	4.0	3.0	490	587	1600	2200	2GB
31322		240	63.00	57.0	38.0	4.0	3.0	452	602	1400	1900	7GB
32322		240	84.50	80.0	65.0	4.0	3.0	753	1054	1400	1900	2GD
7723	115	190	49.00	49.0	35.0	2.5	2.5	256	439	1600	2200	—
32924	120	165	29.00	29.0	23.0	1.5	1.5	177	320	1900	2600	—
2007124		180	38.40	36.0	31.0	2.5	2.0	209	328	1700	2400	2CC
32024X		180	38.00	38.0	29.0	2.5	2.0	221	389	1700	2400	4DC
33024		180	48.00	48.0	38.0	2.5	2.0	293	523	1800	2600	2DE
30224		215	43.50	40.0	34.0	3.0	2.5	353	462	1600	2200	4FB
7524		215	62.00	58.0	50.0	2.5	2.5	391	663	1600	2200	—

Acting range a	Abutment and fillet dimensions										Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀		
	mm													
42	121.0	114	201	184	197.0	7	12.5	2.5	2.5	0.35	1.70	0.900	8.3300	
68	121.0	114	201	168	202.0	7	21.5	2.5	2.5	0.83	0.72	0.400	8.6000	
53	123.0	114	201	177	200.0	8	17.5	2.5	2.5	0.35	1.70	0.900	12.900	
26	114.0	116	137	137	142.0	5	5.0	1.0	1.0	0.34	1.80	0.960	1.2000	
31	116.0	115	150	143	154.0	6	9.0	_____	_____	0.36	1.70	0.930	2.5000	
35	116.0	115	150	143	154.0	6	9.0	2.0	2.0	0.44	1.35	0.800	2.4100	
31	117.0	115	150	145	153.0	7	9.0	2.0	2.0	0.28	2.10	1.100	3.0500	
39	125.0	117	181	162	177.0	6	9.0	_____	_____	0.42	1.40	0.790	4.4700	
38	123.0	117	178	165	177.0	6	9.0	2.0	2.0	0.43	1.40	0.800	4.5000	
45	120.0	117	178	161	180.0	6	10.0	2.0	2.0	0.43	1.40	0.800	6.3700	
49	129.0	117	204	175	198.0	4.5	18.0	_____	_____	0.31	1.90	1.050	12.300	
44	133.0	119	211	193	206.0	7	12.5	2.5	2.5	0.35	1.70	0.900	9.6800	
70	127.0	119	211	176	211.0	7	22.5	2.5	2.5	0.83	0.72	0.400	9.6500	
55	129.0	119	211	185	209.0	9	18.5	2.5	2.5	0.35	1.70	0.900	15.200	
23	120.0	118	143	138	145.0	7	5.4	_____	_____	0.28	2.10	1.117	1.1800	
26	119.0	121	142	142	147.0	5	5.0	1.0	1.0	0.36	1.70	0.930	1.2500	
33	122.0	120	160	152	163.0	7	9.0	_____	_____	0.35	1.70	0.950	3.1000	
36	123.0	120	160	152	163.0	7	9.0	2.0	2.0	0.43	1.40	0.800	3.0700	
34	123.0	120	160	152	161.0	7	10.0	2.0	2.0	0.28	2.10	2.100	3.8500	
44	121.0	120	170	155	174.0	9	13.0	2.0	2.0	0.43	1.40	0.800	5.5500	
40	129.0	122	188	174	187.0	6	9.0	2.0	2.0	0.43	1.40	0.800	5.2900	
47	127.0	122	188	170	190.0	6	10.0	2.0	2.0	0.43	1.40	0.800	7.4500	
45	142.0	124	226	206	220.0	8	12.5	2.5	2.5	0.35	1.70	0.900	11.300	
75	135.0	124	226	188	224.0	7	25.0	2.5	2.5	0.83	0.72	0.400	12.000	
58	137.0	124	226	198	222.0	9	19.5	2.5	2.5	0.35	1.70	0.900	18.000	
42	131.0	120	181	160	180.0	4.5	14.0	_____	_____	0.44	1.40	0.740	5.1300	
29	131.0	129	156	155	162.0	6	6.0	1.0	1.0	0.35	1.70	0.950	1.8000	
29	131.0	130	170	161	173.0	7	9.0	_____	_____	0.37	1.60	0.890	3.6600	
39	132.0	130	170	161	173.0	7	9.0	2.0	2.0	0.46	1.30	0.700	3.3000	
36	132.0	130	170	160	171.0	6	10.0	2.0	2.0	0.30	2.00	1.100	4.2000	
44	141.0	132	203	187	201.0	6	9.5	2.0	2.0	0.43	1.40	0.800	6.2900	
51	140.0	120	206	177	202.0	4.5	12.0	_____	_____	0.41	1.50	0.800	9.0400	

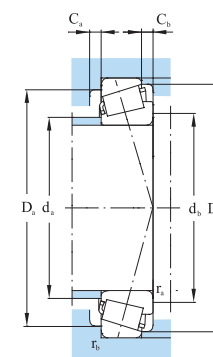
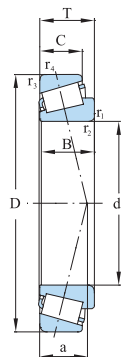
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
32224	120	215	61.50	58.0	50.0	3.0	2.5	461	726	1600	2200	4FD
30324		260	59.50	55.0	46.0	4.0	3.0	542	718	1500	2000	2GB
31324		260	68.00	62.0	42.0	4.0	3.0	519	698	1200	1700	7GB
32324		260	90.50	86.0	69.0	4.0	3.0	809	1199	1300	1800	2GD
2007926		180	32.50	30.0	26.0	2.0	1.5	136	249	1700	2400	—
32926	130	180	32.00	32.0	25.0	2.0	1.5	199	357	1700	2400	2CC
2007126		200	45.50	42.0	36.0	2.5	2.0	246	420	1500	2000	—
32026X		200	45.00	45.0	34.0	2.5	2.0	310	506	1600	2200	4EC
30226		230	43.75	40.0	34.0	4.0	3.0	379	499	1500	2000	4FB
32226		230	67.75	64.0	54.0	4.0	3.0	506	796	1500	2000	4FD
7526EY		230	67.75	66.0	54.0	4.0	3.0	520	810	1500	2000	—
30326		280	63.75	58.0	49.0	5.0	4.0	621	825	1300	1800	2GB
31326		280	72.00	66.0	44.0	5.0	4.0	581	787	1100	1600	7GB
7626		280	99.50	93.0	78.0	3.7	3.7	793	1250	1100	1600	—
32326		280	98.75	93.0	78.0	5.0	4.0	1180	1160	1100	1600	—
2007928		190	32.50	30.0	26.0	2.0	1.5	140	257	1600	2200	—
32928		190	32.00	32.0	25.0	2.0	1.5	200	368	1600	2200	2CC
2007128		210	45.50	42.0	36.0	2.5	2.0	251	442	1600	2200	—
32028X		210	45.00	45.0	34.0	2.5	2.0	303	546	1600	2200	4DC
7728		230	58.00	57.0	45.0	3.0	3.0	363	661	1600	2200	—
30228	140	250	45.75	42.0	36.0	4.0	3.0	399	560	1400	1900	4FB
32228		250	71.75	68.0	58.0	4.0	3.0	606	976	1400	1900	4FD
7828		300	90.00	82.0	60.0	3.7	3.7	600	916	1200	1700	—
30328		300	67.75	62.0	53.0	5.0	4.0	710	954	1200	1700	2GB
31328		300	77.00	70.0	47.0	5.0	4.0	693	900	1000	1500	7GD
32328		300	107.75	102.0	85.0	5.0	4.0	985	1440	1200	1600	—
2007930	150	210	38.50	36.0	31.0	2.5	2.0	199	384	1500	2000	—
32930		210	38.00	38.0	30.0	2.5	2.0	267	532	1600	2100	2DC
2007130		225	48.50	45.0	38.0	3.0	2.5	254	454	950	1400	—
32030X		225	48.00	48.0	36.0	3.0	2.5	343	619	1500	2000	4EC
33030		225	59.00	59.0	46.0	3.0	2.5	459	867	1500	2000	2EE
30230		270	49.00	45.0	38.0	4.0	3.0	431	628	1300	1800	4GB

Acting range a	Abutment and fillet dimensions										Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max		e	Y	Y ₀	
	mm													
52	137.0	132	203	181	204.0	7	11.5	2.0	2.0		0.43	1.40	0.800	9.3800
49	153.0	134	246	221	237.0	7	13.5	2.5	2.5		0.35	1.70	0.900	14.000
82	145.0	134	246	203	244.0	9	26.0	2.5	2.5		0.83	0.72	0.400	15.500
62	148.0	134	246	213	239.0	9	21.5	2.5	2.5		0.35	1.70	0.900	21.500
28	142.0	139	173	164	174.0	9	6.5	—	—		0.27	2.20	1.220	2.3100
32	141.0	139	171	167	173.0	6	7.0	1.5	1.5		0.33	1.80	1.000	2.3400
39	144.0	140	190	178	192.0	8	11.0	—	—		0.35	1.70	0.950	4.6600
43	144.0	140	190	178	192.0	7	11.0	2.0	2.0		0.43	1.40	0.800	4.9100
46	152.0	144	216	203	217.0	7	9.5	2.5	2.5		0.43	1.40	0.800	7.1500
57	146.0	144	216	193	219.0	7	13.5	2.5	2.5		0.43	1.40	0.800	11.300
45	154.0	144	219	196	214.0	4.5	14.0	—	—		0.26	2.30	1.250	11.900
53	164.0	148	262	239	255.0	8	14.5	3.0	3.0		0.35	1.70	0.900	17.000
87	157.0	148	262	218	261.0	8	28.0	3.0	3.0		0.83	0.72	0.400	18.500
65	168.0	144	280	227	258.0	4.5	22.0	—	—		0.32	1.90	1.040	26.400
66	160.0	148	262	230	260.0	10	20.5	3.0	3.0		0.37	1.70	0.900	30.500
28	142.0	149	183	164	174.0	9	6.5	—	—		0.27	2.20	0.220	2.4300
34	150.0	149	181	177	184.0	6	7.0	1.5	1.5		0.35	1.70	0.900	2.4700
42	153.0	150	201	187	202.0	8	11.0	—	—		0.37	1.60	0.890	4.9400
46	153.0	150	200	187	202.0	7	11.0	2.0	2.0		0.46	1.30	0.700	5.2100
56	182.0	152	219	217	242.0	4.5	13.0	—	—		0.44	1.40	0.740	8.9700
49	164.0	154	236	219	234.0	7	9.5	2.5	2.5		0.43	1.40	0.800	8.6500
60	159.0	154	236	210	238.0	8	13.5	2.5	2.5		0.43	1.40	0.800	14.400
91	176.0	154	300	228	276.0	4.5	30.0	—	—		0.73	0.80	0.450	29.000
57	176.0	158	282	255	273.0	8	14.5	3.0	3.0		0.35	1.70	0.900	21.000
90	169.0	158	282	235	280.0	9	30.0	3.0	3.0		0.83	0.72	0.400	24.500
76	177.0	172	282	246	284.0	9	22.5	3.0	3.0		0.37	1.60	0.880	33.900
33	165.0	160	202	191	201.0	9	7.5	—	—		0.27	2.20	1.210	4.5600
37	162.0	160	200	192	202.0	7	8.0	2.0	1.5		0.33	1.83	1.010	3.9200
46	164.0	162	213	200	216.0	8	13.0	—	—		0.39	1.50	0.850	6.8400
49	164.0	162	213	200	216.0	8	12.5	2.5	2.0		0.50	1.20	0.700	6.4700
48	164.0	162	213	200	217.0	8	13.0	2.5	2.0		0.37	1.60	0.900	8.1500
52	175.0	164	256	234	250.0	9	11.0	2.5	2.5		0.43	1.40	0.800	11.000

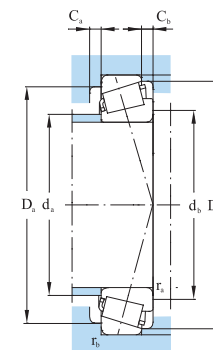
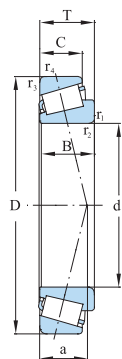
Single row tapered roller bearings metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
32230	150	270	77.00	73.0	60.0	4.0	3.0	752	1155	1200	1700	4GD
30330		320	72.00	65.0	55.0	5.0	4.0	790	1060	1100	1600	2GB
31330		320	82.00	75.0	50.0	5.0	4.0	781	1020	950	1400	7GB
32330		320	114.00	108.0	90.0	5.0	4.0	1170	1660	950	1400	—
2007932	160	220	38.50	36.0	31.0	2.5	2.0	211	400	1500	2000	—
32932		220	38.00	38.0	30.0	2.5	2.0	267	532	1500	1900	2DC
2007132		240	51.50	48.0	41.0	3.0	2.5	343	629	1100	1600	—
32032X		240	51.00	51.0	38.0	3.0	2.5	376	686	1300	1800	4EC
30232		290	52.00	48.0	40.0	4.0	3.0	490	720	1100	1600	4GB
32232		290	84.00	80.0	67.0	4.0	3.0	833	1402	1100	1600	4GD
27332		340	88.00	79.0	54.0	3.7	3.7	750	1081	1000	1500	—
30332		340	75.00	68.0	58.0	5.0	4.0	868	1167	1000	1500	2GB
32332		340	121.00	114.0	95.0	5.0	4.0	1400	2230	1000	1500	—
7832		375	87.30	79.4	50.3	4.7	4.7	790	1057	1000	1500	—
2007934		230	38.50	36.0	31.0	2.5	2.0	214	415	1400	1900	—
32934		230	38.00	38.0	30.0	2.5	2.0	268	520	1400	1900	3DC
2007134	170	260	57.50	54.0	46.0	3.0	2.5	391	752	1400	1900	—
32034X		260	57.00	57.0	43.0	3.0	2.5	473	867	1200	1700	4EC
30234		310	57.00	52.0	43.0	5.0	4.0	569	831	1100	1500	4GB
32234		310	91.00	86.0	71.0	5.0	4.0	946	1601	1000	1500	4GB
30334		360	80.00	72.0	62.0	5.0	4.0	971	1347	950	1400	2GD
7634		360	128.0	120.0	100.0	3.7	3.7	1296	2116	950	1400	—
32936	180	250	45.00	45.0	34.0	2.5	2.0	326	675	1200	1700	4DC
2007136		280	64.50	60.0	52.0	3.0	2.5	473	860	950	1400	—
32036X		280	64.00	64.0	48.0	3.0	2.5	617	1060	1100	1600	3FD
7736		290	65.00	63.5	48.0	2.3	2.3	489	920	950	1400	—
30236		320	57.00	52.0	43.0	5.0	4.0	586	875	1000	1500	4GB
32236		320	91.00	86.0	71.0	5.0	4.0	975	1687	950	1400	4GD
30336		380	83.00	75.0	64.0	5.0	4.0	1054	1294	900	1300	—
32938		260	45.00	45.0	34.0	2.5	2.0	330	675	1100	1600	4DC
32938X2A		260	45.50	42.0	36.0	2.5	2.0	675	1040	1100	1600	—
7138		290	51.00	46.0	40.0	2.5	2.0	349	610	950	1400	—

Acting range a	Abutment and fillet dimensions										Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max		e	Y	Y ₀	
	mm													
65	171.0	164	256	226	254.0	8	17.0	2.5	2.5	0.43	1.40	0.800	18.300	
62	189.0	168	302	273	292.0	9	17.0	3.0	3.0	0.35	1.70	0.900	28.500	
96	181.0	168	302	251	300.0	9	32.0	3.0	3.0	0.83	0.72	0.400	29.500	
76	183.0	168	302	264	299.0	12	24.0	3.0	3.0	0.35	1.70	0.900	46.000	
34	175.0	170	212	203	213.0	9	7.5	—	—	0.27	2.20	1.230	3.7900	
39	170.5	170	210	199	213.5	7	8.0	2.0	1.5	0.35	1.73	0.950	4.1500	
47	175.0	172	228	213	231.0	8	13.0	—	—	0.37	1.60	0.890	7.6700	
52	175.0	172	228	213	231.0	8	13.0	2.0	2.0	0.46	1.30	0.700	7.6900	
56	189.0	174	276	252	269.0	8	12.0	2.5	2.5	0.43	1.40	0.800	13.000	
70	183.0	174	276	242	274.0	10	17.0	2.5	2.5	0.43	1.40	0.800	25.500	
100	199.0	161	340	265	315.0	4.5	34.0	—	—	0.76	0.80	0.430	29.900	
63	201.0	178	322	290	310.0	9	17.0	3.0	3.0	0.35	1.70	0.900	29.000	
81	199.0	176	327	274	314.0	4.5	26.0	—	—	0.35	1.70	0.960	51.700	
98	214.0	176	375	295	337.0	4.5	37.0	—	—	0.70	0.90	0.470	40.700	
36	185.0	180	222	213	224.0	9	7.5	—	—	0.28	2.10	1.170	3.8640	
42	183.0	180	220	213	222.0	7	8.0	2.0	2.0	0.37	1.60	0.900	4.3500	
47	187.0	182	248	230	249.0	10	14.0	—	—	0.31	1.90	1.070	10.100	
56	188.0	182	248	230	249.0	10	14.0	2.0	2.0	0.44	1.35	0.800	10.600	
60	203.0	188	292	268	288.0	8	14.0	3.0	3.0	0.43	1.40	0.800	19.000	
76	196.0	188	292	259	294.0	10	20.0	3.0	3.0	0.43	1.40	0.800	28.500	
68	213.0	188	342	307	329.0	9	18.0	3.0	3.0	0.35	1.70	0.900	35.000	
87	213.0	184	360	288	332.0	4.5	28.0	—	—	0.36	1.70	0.920	63.500	
54	194.0	190	240	225	241.0	8	11.0	2.0	2.0	0.48	1.25	0.700	6.5600	
53	199.0	192	268	247	267.0	9	16.0	—	—	0.28	2.20	1.190	13.000	
60	199.0	192	268	247	267.0	10	16.0	2.0	2.0	0.43	1.40	0.800	14.200	
62	207.0	196	290	247	274.0	4.5	17.0	—	—	0.44	1.40	0.750	15.600	
63	211.0	198	302	278	297.0	9	14.0	3.0	3.0	0.46	1.30	0.700	20.000	
79	204.0	198	302	267	303.0	10	20.0	3.0	3.0	0.46	1.30	0.700	29.500	
71	233.0	207	362	324	349.0	10	19.0	3.0	3.0	0.36	1.70	0.920	39.300	
55	204.0	200	250	235	251.0	8	11.0	2.0	2.0	0.48	1.25	0.700	6.8500	
49	205.0	202	252	235	251.0	10	9.5	—	—	0.38	1.60	0.860	6.5200	
53	215.0	202	281	256	272.0	4.5	11.0	—	—	0.38	1.60	0.870	10.500	

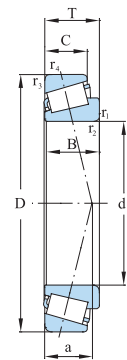
Single row tapered roller bearings metric



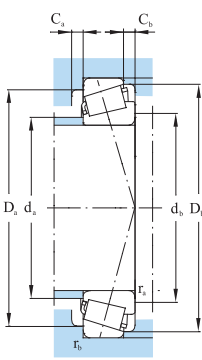
Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
2007138	190	290	64.50	60.0	52.0	3.0	2.5	473	882	1000	1500	—
32038X		290	64.00	64.0	48.0	3.0	2.5	630	1100	1100	1500	4FD
30238		340	60.00	55.0	46.0	5.0	4.0	672	990	950	1400	4GB
32238		340	97.00	92.0	75.0	5.0	4.0	1097	1879	900	1300	4GD
30338		400	86.00	78.0	65.0	6.0	5.0	1139	1410	850	1200	—
2007940K	200	280	51.50	48.0	41.0	3.0	2.5	348	742	1000	1500	—
2007940		280	51.50	48.0	41.0	3.0	2.5	348	742	1000	1500	—
32940		280	51.00	51.0	39.0	3.0	2.5	429	846	1000	1500	3EC
2007140		310	70.50	66.0	56.0	3.0	2.5	525	1040	950	1400	—
32040X		310	70.00	70.0	53.0	3.0	2.5	737	1290	950	1400	4FD
30240		360	64.00	58.0	48.0	5.0	4.0	744	1111	900	1300	4GB
32240		360	104.0	98.0	82.0	5.0	4.0	1287	2157	800	1100	3GD
32944		300	51.00	51.0	39.0	3.0	2.5	438	895	1000	1400	3EC
2007944		300	51.50	48.0	41.0	3.0	2.5	354	835	900	1400	—
2007144	220	340	76.50	72.0	62.0	4.0	3.0	709	1336	950	1400	—
32044X		340	76.00	76.0	57.0	4.0	3.0	838	1490	900	1300	4FD
30244		400	72.00	65.0	54.0	5.0	4.0	1034	1450	850	1200	—
7244		400	73.00	65.0	54.0	3.7	3.7	780	1181	900	1300	—
32244		400	114.0	108.0	90.0	5.0	4.0	1712	2912	800	1100	—
32948	240	320	51.00	51.0	39.0	3.0	2.5	516	1090	900	1300	4EC
2007148		360	76.50	72.0	62.0	4.0	3.0	698	1414	850	1200	—
32048X		360	76.00	76.0	57.0	4.0	3.0	878	1630	850	1200	4FD
32952		360	63.50	63.5	48.0	3.0	2.5	700	1544	800	1100	3EC
2007952		360	64.50	60.0	52.0	3.0	2.5	528	1187	800	1100	—
2007152	260	400	87.70	82.0	71.0	5.0	4.0	912	1835	800	1100	—
32052X		400	87.00	87.0	65.0	5.0	4.0	1133	2093	800	1100	4FC
32956	280	380	63.50	63.5	48.0	3.0	2.5	733	1634	800	1100	4EC
2007956		380	64.50	60.0	52.0	3.0	2.5	543	1257	800	1100	—
F-7909	47	100	43.00	43.0	37.0	1.8	1.8	160	200	5300	6700	
F-7813	65	110	30.35	30.0	24.0	3.0	1.8	118	150	3200	4300	
F-7813E		110	31.00	31.0	25.0	2.0	2.0	130	185	3200	4300	
F-7815E	75	135	44.50	45.0	36.5	2.5	2.0	234	342	3000	3800	

Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
mm													kg
58	209.0	202	278	257	279.0	10	13.0	—	—	0.37	1.60	0.890	15.280
63	210.0	202	278	257	279.0	10	16.0	2.0	2.0	0.44	1.35	0.800	14.800
65	224.0	208	322	298	318.0	9	14.0	3.0	3.0	0.43	1.40	0.800	24.000
82	216.0	208	322	286	323.0	10	22.0	3.0	3.0	0.43	1.40	0.800	36.000
76	248.0	223	378	346	370.0	11	21.0	4.0	4.0	0.36	1.70	0.920	46.000
54	220.0	212	271	251	270.0	10	11.0	—	—	0.39	1.50	0.840	8.7000
54	220.0	212	271	251	270.0	4.5	11.0	—	—	0.39	1.50	0.840	8.8600
54	217.0	212	268	257	271.0	9	12.0	2.5	2.0	0.40	1.50	0.800	9.5200
65	221.0	212	298	273	297.0	11	17.0	—	—	0.39	1.50	0.840	18.200
67	222.0	212	298	273	297.0	11	17.0	2.5	2.0	0.43	1.40	0.800	19.000
69	237.0	218	342	315	336.0	9	16.0	3.0	3.0	0.43	1.40	0.800	25.000
85	253.0	238	382	334	379.0	13	24.0	3.0	3.0	0.43	1.40	0.800	42.500
59	234.0	232	288	271	290.0	10	12.0	2.0	2.0	0.43	1.41	0.780	10.200
66	310.0	232	342	291	361.0	10	11.0	—	—	0.39	1.50	0.840	10.100
67	243.0	234	326	300	326.0	12	19.0	—	—	0.35	1.70	0.950	23.300
72	244.0	234	326	300	326.0	12	19.0	2.5	2.5	0.43	1.40	0.800	24.100
75	259.0	238	382	348	371.0	10	18.0	3.0	3.0	0.43	1.40	0.800	39.000
71	256.0	220	382	334	382.0	10	19.0	—	—	0.37	1.60	0.880	37.600
95	253.0	238	382	334	379.0	13	24.0	3.0	3.0	0.43	1.40	0.800	60.000
64	255.0	252	308	294	311.0	9	12.0	2.0	2.0	0.46	1.30	0.700	11.000
65	261.0	254	346	318	346.0	12	19.0	—	—	0.31	1.90	1.050	23.800
78	262.0	254	346	318	346.0	12	19.0	2.5	2.5	0.46	1.30	0.700	27.500
70	279.0	272	348	325	347.0	11	15.0	2.0	2.0	0.41	1.48	0.810	18.800
60	286.0	272	351	325	344.0	13	13.0	—	—	0.30	2.00	1.090	19.200
71	287.0	278	382	352	383.0	14	22.0	—	—	0.30	2.00	1.110	37.800
84	287.0	278	382	352	383.0	13	22.0	3.0	3.0	0.43	1.40	0.800	40.000
75	298.0	292	368	348	368.0	11	15.5	2.0	2.0	0.43	1.40	0.800	20.000
64	305.0	292	371	344	364.0	13	13.0	—	—	0.32	1.90	1.030	21.300
26	57.0	57	86	95	6.0	8	1.8	1.8	1.8	0.30	1.90	1.100	1.6500
21	—	—	—	—	—	—	—	—	—	0.40	1.49	0.820	1.1100
25	—	—	—	—	—	—	—	—	—	0.40	1.49	0.820	1.1400
29	82.0	85	119	131	5.0	11	2.0	2.0	2.0	0.28	2.20	1.200	2.7300

Single row tapered roller bearings
metric



Designations	Boundary dimensions							Basic load		Limiting speeds		ISO355
	d	D	T	B	C	r _{1,2} min	r _{3,4} min	Cr	Cor	grease	oil	Dimension series
	mm							kN		r/min		
F-7815EK	75	135	44.00	45.0	35.0	2.5	2.0	198	316	3000	3800	
F-7816E	85	140	45.00	45.0	36.5	3.0	2.5	247	367	2900	3600	



Acting range a	Abutment and fillet dimensions									Calculation factors			Mass
	d _a max	d _b max	D _a max	D _a min	D _b min	C _a min	C _b min	r _a max	r _b max	e	Y	Y ₀	
	mm												
32	82.0	85	119	131	5.0	11	2.0	2.0	2.0	0.28	2.20	1.200	2.6000
31	87.0	90	127	136	5.0	11	2.5	2.5	2.5	0.28	2.20	1.200	2.8400

