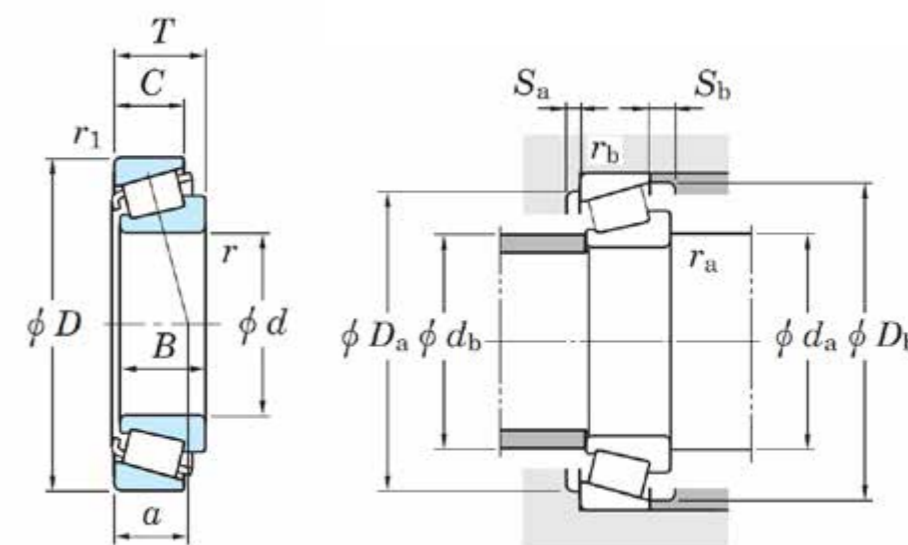
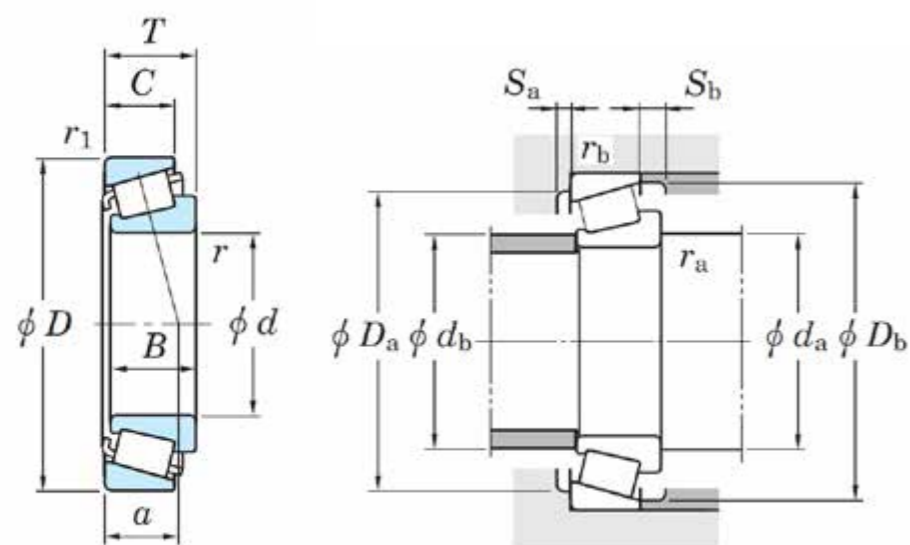
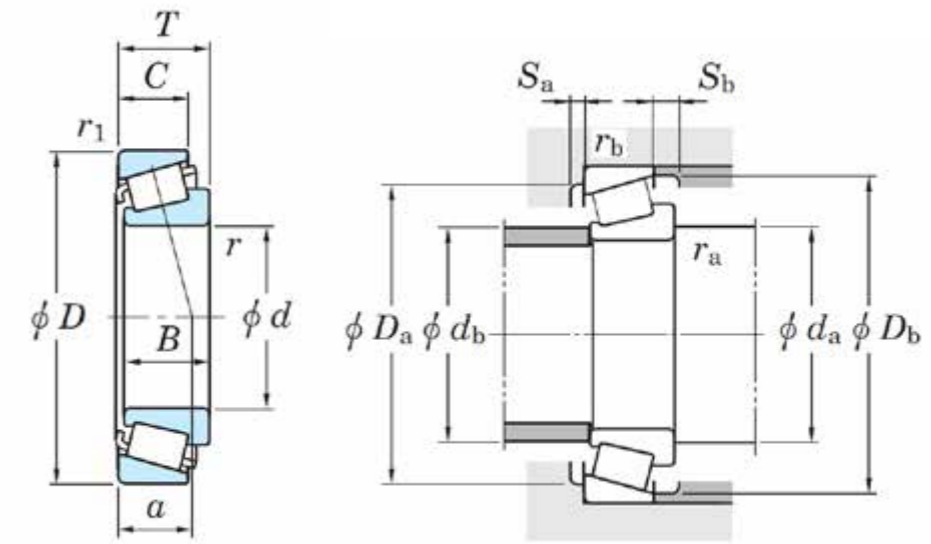
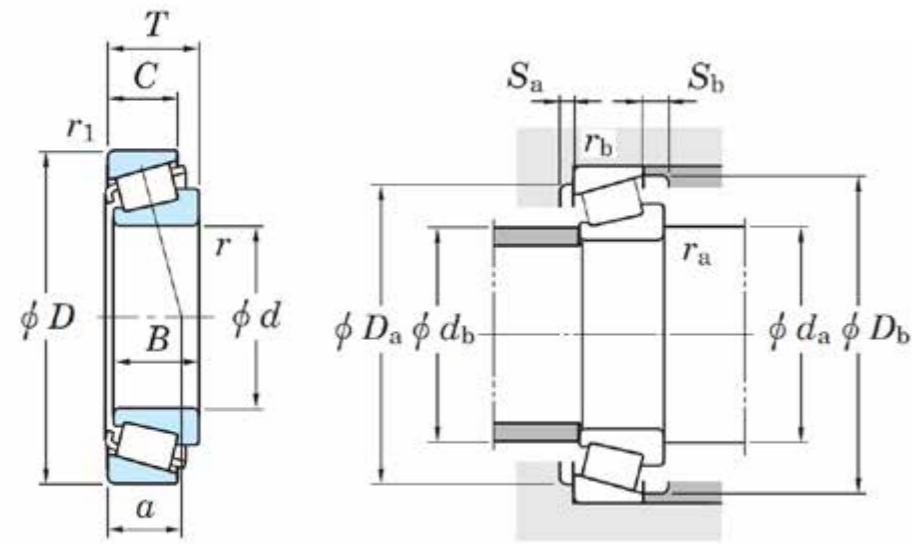


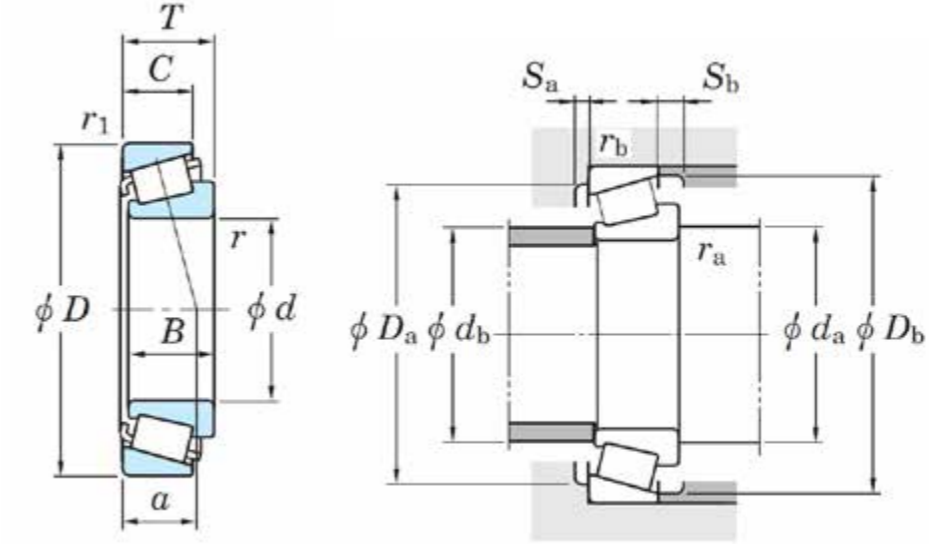
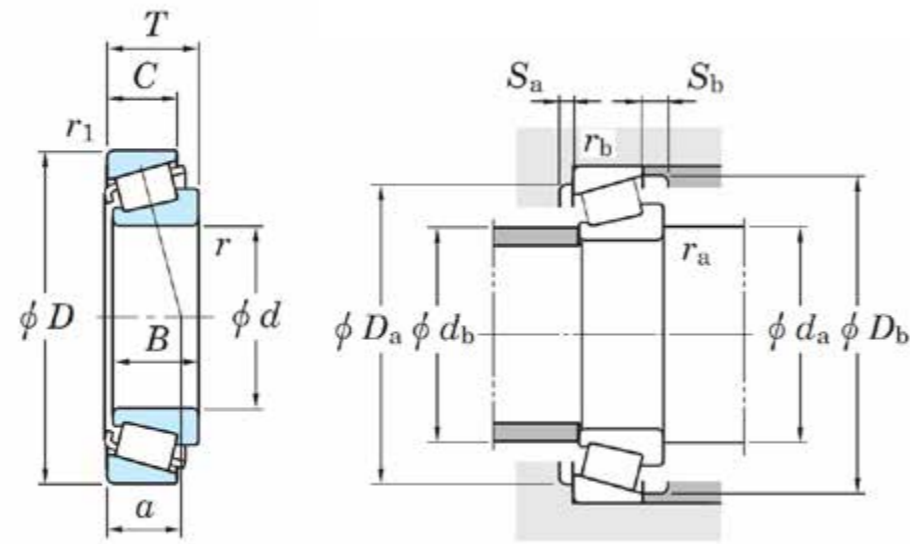
Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions								Constant	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da min	db max	Da max	Db min	Sa min	Sb min	ra max	rb max		e	Y1		Y0
15	35	11.75	11	10	0.6	0.6	19.8	14.5	2.00	12000	16000	30202R	-	8.3	19.5	20	30.5	29	33	2	1.7	0.6	0.6	0.32	1.88	1.04	0.054
17	40	13.25	12	11	1	1	26	20.7	2.85	10 000	14 000	30203JR	2DB	10.1	22.5	23	34.5	33	37	2	2	1	1	0.35	1.74	0.96	0.081
20	47	15.25	14	12	1	1	33.8	27.2	3.8	8 700	12 000	30204JR	2DB	11.8	25.5	27	41.5	39	44	2	3	1	1	0.35	1.74	0.96	0.127
25	52	16.25	15	13	1	1	39.3	33.7	4.75	7 800	10 000	30205JR	3CC	12.9	30.5	31	46.5	44	48	2	3	1	1	0.37	1.6	0.88	0.156
30	62	17.25	16	14	1	1	51.8	44.8	6.45	6 500	8 700	30206JR	3DB	14.1	35.5	37	56.5	53	57	2	3	1	1	0.37	1.6	0.88	0.236
35	72	18.25	17	15	1.5	1.5	68.8	60.9	8.95	5 600	7 400	30207JR	3DB	15.3	43.5	44	63.5	62	67	3	3	1.5	1.5	0.37	1.6	0.88	0.344
40	80	19.75	18	16	1.5	1.5	78.4	69.2	10.3	5 000	6 700	30208JR	3DB	17	48.5	49	71.5	69	75	3	3.5	1.5	1.5	0.37	1.6	0.88	0.434
45	85	20.75	19	16	1.5	1.5	83.9	77.4	11.6	4 600	6 100	30209JR	3DB	18.9	53.5	54	76.5	74	80	3	4.5	1.5	1.5	0.4	1.48	0.81	0.502
50	90	21.75	20	17	1.5	1.5	95.6	91.7	13.8	4 300	5 700	30210JR	3DB	20.1	58.5	58	81.5	79	85	3	4.5	1.5	1.5	0.42	1.43	0.79	0.566
55	100	22.75	21	18	2	1.5	118	113	17.3	3 900	5 200	30211JR	3DB	20.7	65	64	90	88	94	4	4.5	2	1.5	0.4	1.48	0.81	0.732
60	110	23.75	22	19	2	1.5	133	127	19.7	3 500	4 700	30212JR	3EB	21.9	70	70	100	96	103	4	4.5	2	1.5	0.4	1.48	0.81	0.945
65	140	36	33	28	3	2.5	255	239	37.6	2 800	3 800	30313JR	2GB	29.3	79	83	128	122	130	4	8	2.5	2	0.35	1.74	0.96	2.56
70	125	26.25	24	21	2	1.5	173	173	27.1	3 100	4 100	30214JR	3EB	25.9	80	81	116.5	110	118	4	5	2	1.5	0.42	1.43	0.79	1.32
75	130	27.25	25	22	2	1.5	178	181	28.2	2 900	3 900	30215JR	4DB	27.6	85	86	121.5	115	124	4	5	2	1.5	0.44	1.38	0.76	1.42
80	140	28.25	26	22	2.5	2	202	202	31.2	2 700	3 600	30216JR	3EB	28.6	92	91	130	124	132	4	6	2	2	0.42	1.43	0.79	1.72
85	150	30.5	28	24	2.5	2	228	231	35.1	2 500	3 400	30217JR	3EB	30.4	97	97	140	132	141	5	6.5	2	2	0.42	1.43	0.79	2.17
90	160	32.5	30	26	2.5	2	255	261	39	2 400	3 200	30218JR	3FB	32.6	102	103	150	140	150	5	6.5	2	2	0.42	1.43	0.79	2.65
95	170	34.5	32	27	3	2.5	289	299	44	2 200	3 000	30219JR	3FB	34.9	109	110	158	149	159	5	7.5	2.5	2	0.42	1.43	0.79	3.2
100	180	37	34	29	3	2.5	323	338	49.1	2 100	2 800	30220JR	3FB	36.8	114	116	168	157	168	5	8	2.5	2	0.42	1.43	0.79	3.83
105	190	39	36	30	3	2.5	360	380	52.3	2 000	2 600	30221JR	3FB	39	119	122	178	165	178	6	9	2.5	2	0.42	1.43	0.79	4.49
110	200	41	38	32	3	2.5	405	434	58.1	1 900	2 500	30222JR	3FB	40.08	124	129	188	174	188	6	9	2.5	2	0.42	1.43	0.79	5.33
120	215	43.5	40	34	3	2.5	435	473	61.7	1 700	2 300	30224JR	4FB	44.2	134	140	203	187	203	6	9.5	2.5	2	0.44	1.38	0.76	6.36
140	250	45.75	42	36	4	3	526	570	71.8	1 500	1 900	30228JR	4FB	49.4	158	163	236	219	237	9	9.5	3	2.5	0.44	1.38	0.76	8.97



Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db	Sa	Sb	ra		rb	Y1		Y0
															min	max	max	min	min	min	min	max		max			
15	42	14.25	13	11	1	1	27.4	19.2	2.65	10 000	14 000	30302JR	2FB	10	20.5	22	36.5	35	38	2	3	1	1	0.29	2.11	1.16	0.098
17	47	15.25	14	12	1	1	34.2	24.5	3.45	9 200	12 000	30303JR	2FB	11	22.5	25	41.5	40	42	2	3	1	1	0.29	2.11	1.16	0.133
20	52	16.25	16	13	1.5	1.5	45.3	35.1	5.05	8 300	11 000	30304AJR	-	11.1	28.5	28	44	44	47	2	3	1.5	1.5	0.3	2	1.1	0.179
25	62	18.25	17	15	1.5	1.5	60.3	46.9	6.9	6 800	9 000	30305JR	2FB	12.9	33.5	34	54	54	57	2	3	1.5	1.5	0.3	2	1.1	0.273
25	62	18.25	17	13	1.5	1.5	49.7	42.5	5.80	5 700	8 000	30305DJR	-	20.4	33.5	34	-	-	58.5	3	5	1.5	1.5	0.83	0.73	0.40	0.29
30	72	20.75	19	16	1.5	1.5	74.4	60.1	9	5 800	7 700	30306JR	2FB	15.7	38.5	40	63.5	62	66	3	4.5	1.5	1.5	0.31	1.9	1.05	0.411
30	72	20.75	19	16	1.5	1.5	74.4	60.1	9.00	5 800	7 700	30306DJR	-	15.7	38.5	40	-	-	66	3	4.5	1.5	1.5	0.31	1.90	1.05	0.411
35	80	22.75	21	18	2	1.5	76.2	57.2	6.9	5 200	6 900	30307JR	2FB	-	-	-	-	-	-	-	-	-	-	0.31	1.90	1.05	0.527
35	80	22.75	21	15	2	1.5	78.7	69.1	9.85	4 300	6 000	30307DJR	7FB	26.8	45	44	70	66	76.5	3	7.5	2	1.5	0.83	0.73	0.4	0.536
40	90	25.25	23	20	2	1.5	113	101	15.5	4 500	6 100	30308JR	2FB	19.9	50	52	80	77	82	3	5	2	1.5	0.35	1.74	0.96	0.757
40	90	25.25	23	17	2	1.5	100	90.2	13.1	3 800	5 300	30308DJR	-	29.9	50	51	-	-	86.5	3	8	2	1.5	0.83	0.73	0.40	0.757
45	100	27.25	25	22	2	1.5	141	128	19.9	4 100	5 400	30309JR	2FB	21.3	55	59	90	86	93	3	5	2	1.5	0.35	1.74	0.96	1.01
45	100	27.25	25	18	2	1.5	119	107	15.8	3 400	4 700	30309DJR	-	32.9	55	56	-	-	96	3	9	2	1.5	0.83	0.73	0.4	0.973
50	110	29.25	27	23	2.5	2	172	152	24	3 700	4 900	30310JR	2FB	22.9	62	65	98	95	102	3	6	2	2	0.35	1.74	0.96	1.32
50	110	29.25	27	23	2.5	2	172	152	24	3 700	4 900	30310DJR	-	22.9	62	65	-	-	102	3	6	2	2	0.35	1.74	0.96	1.32
55	120	31.5	29	25	2.5	2	187	170	27.0	3 300	4 500	30311JR	-	25.5	67	71	-	-	111	4	6.5	2	2	0.35	1.74	0.96	1.65
55	120	31.5	29	21	2.5	2	161	148	22.3	2 900	4 000	30311DJR	7FB	38.4	67	68	108	94	113	4	10.5	2	2	0.83	0.73	0.4	1.59
60	130	33.5	31	26	3	2.5	217	201	31.9	3 100	4 100	30312JR	-	26.9	74	77	-	-	120	4	7.5	2.5	2	0.35	1.74	0.96	2.08
60	130	33.5	31	22	3	2.5	191	179	27.1	2 600	3 700	30312DJR	7FB	40.8	74	73	118	103	124	4	11.5	2.5	2	0.83	0.73	0.4	2.01
65	140	36	35	30	3	2.5	288	273	42.2	2 600	3 500	30313JR	-	30.5	84	89	-	-	140	4	8	2.5	2	0.35	1.74	0.96	3.08
65	140	36	33	23	3	2.5	220	209	31.4	2 400	3 400	30313DJR	7GB	44.3	79	79	128	111	133	4	13	2.5	2	0.83	0.73	0.4	2.44
70	150	38	35	30	3	2.5	288	273	42.2	2 600	3 500	30314JR	-	30.5	84	89	-	-	140	4	8	2.5	2	0.35	1.74	0.96	3.08
70	150	38	35	25	3	2.5	246	235	34.9	2 300	3 200	30314DJR	7GB	47.1	84	84	138	118	142	4	13	2.5	2	0.83	0.73	0.4	2.97
75	160	40	37	31	3	2.5	313	298	43.3	2 500	3 300	30315JR	-	31.9	89	95	-	-	149	4	9	2.5	2	0.35	1.73	0.95	3.52
75	160	40	37	26	3	2.5	266	254	34.2	2 100	2 900	30315DJR	7GB	49.9	89	91	148	127	151	6	14	2.5	2	0.83	0.73	0.4	3.45
80	170	42.5	39	33	3	2.5	368	355	49.9	2 300	3 100	30316JR	-	34.8	94	102	-	-	159	4	9.5	2.5	2	0.35	1.74	0.96	4.46
80	170	42.5	39	27	3	2.5	294	282	38.7	2 000	2 800	30316DJR	7GB	53.5	94	97	158	134	159	6	15.5	2.5	2	0.83	0.73	0.4	4.12
85	180	44.5	41	34	4	3	396	384	53.0	2 200	2 900	30317JR	-	-	103	107	-	-	167	5	10.5	3	2.5	0.35	1.74	0.96	5.15
85	180	44.5	41	28	4	3	328	317	42.6	1 900	2 600	30317DJR	7GB	56.3	103	103	166	143	169	6	16.5	3	2.5	0.83	0.73	0.4	4.81
90	190	46.5	43	36	4	3	432	420	57.1	2 100	2 700	30318JR	-	-	108	113	-	-	177	5	10.5	3	2.5	0.35	1.74	0.96	6.04
90	190	46.5	43	30	4	3	359	350	46.2	1 700	2 400	30318DJR	7GB	59.6	108	109	176	151	179	6	16.5	3	2.5	0.83	0.73	0.4	5.57
95	200	49.5	45	38	4	3	465	455	60.9	2 000	2 600	30319JR	-	-	113	118	-	-	183	5	11.5	3	2.5	0.35	1.74	0.96	6.96
95	200	49.5	45	32	4	3	398	391	50.4	1 700	2 300	30319DJR	7GB	62.7	113	113	186	157	187	6	17.5	3	2.5	0.83	0.73	0.4	6.68

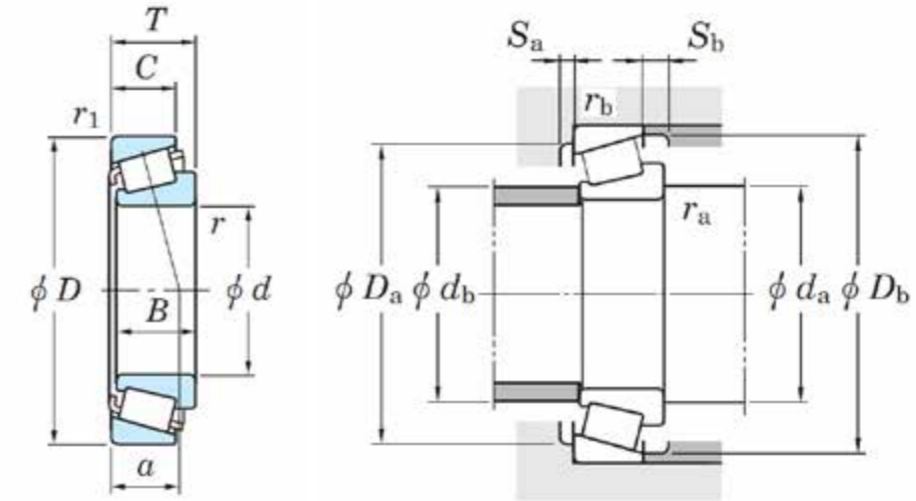
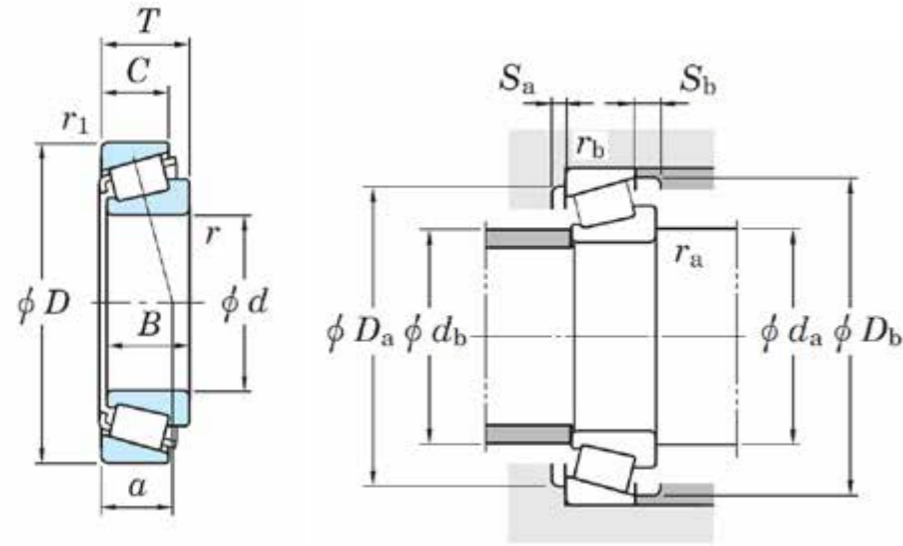


Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db	Sa	Sb	ra		rb	Y1		Y0
															min	max	max	min	min	min	min	max		max			
100	215	51.5	47	39	4	3	528	521	68.0	1 800	2 400	30320JR	-	-	118	127	-	-	200	6	12.5	3	2.5	0.35	1.74	0.96	8.49
100	215	51.5	47	34	4	3	397	374	48.5	1 500	2 100	30320DJR	-	65.9	118	121	201	183	204	5	17	3	2.5	0.81	0.74	0.41	8.02
110	240	54.5	50	42	4	3	601	590	75.2	1 600	2 100	30322JR	-	46.3	128	141	-	-	222	8	12.5	3	2.5	0.36	1.74	0.96	11.4
110	240	54.5	50	36	4	3	456	429	53.5	1 400	1 900	30322DJR	-	71.5	128	135	226	205	222	6	18	3	2.5	0.81	0.74	0.41	10.2
120	260	59.5	55	46	4	3	712	714	89.9	1 500	2 000	30324JR	2GB	50.2	138	152	246	221	239	10	13.5	3	2.5	0.35	1.74	0.96	14.5
130	280	63.75	58	49	5	4	823	834	102	1 400	1 800	30326JR	2GB	54.0	152	164	262	239	255	8	14.5	4	3	0.35	1.74	0.96	18.1
130	280	63.75	58	41	5	4	604	582	69.9	1 200	1 600	30326DJR	-	84.0	152	155	262	240	261	7	22	4	3	0.81	0.74	0.41	16.3
140	300	67.75	62	53	5	4	938	962	114	1 300	1 700	30328JR	2GB	56.9	162	179	282	254	273	10	14.5	4	3	0.35	1.74	0.96	22.6

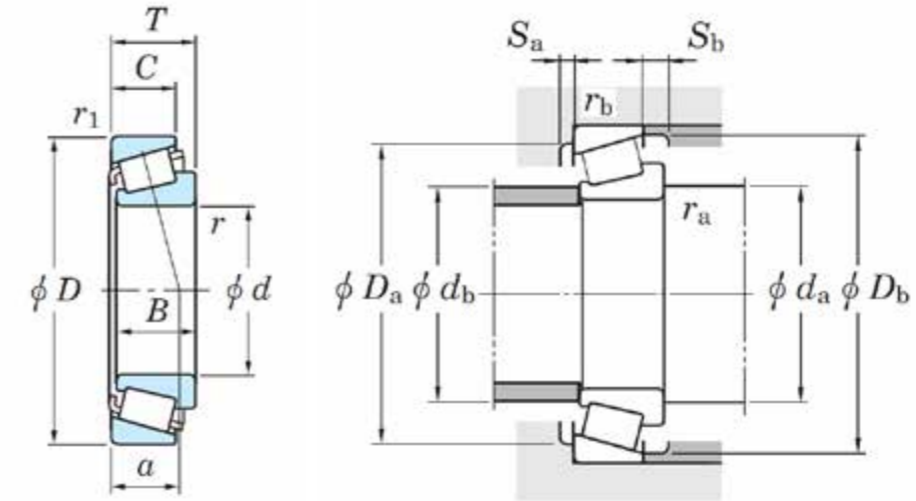
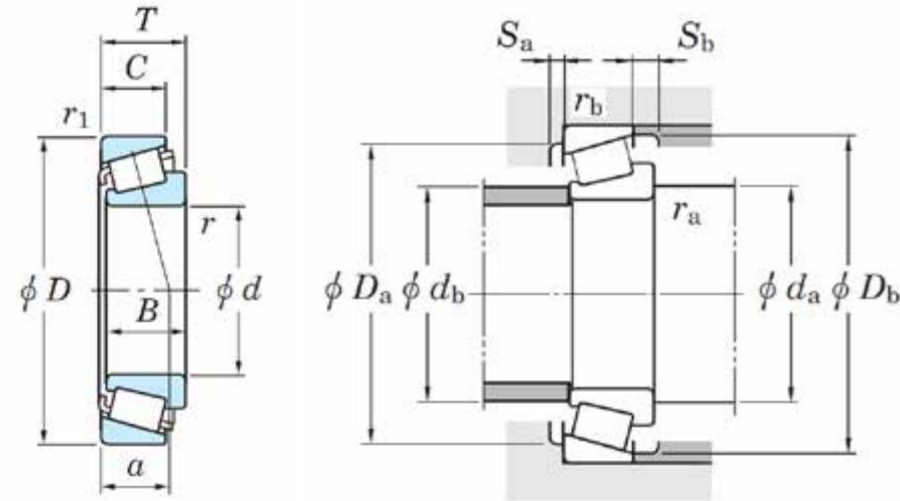


Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db	Sa	Sb	ra		rb	Y1		Y0
															min	max	max	min	min	min	min	max		max			
20	42	15	15	12	0.6	0.6	34.1	31.5	4.35	9 700	13 000	32004JR	3CC	10.5	24.5	25	37.5	35	39	3	3	0.6	0.6	0.37	1.6	0.88	0.102
25	47	15	15	11.5	0.6	0.6	37.8	37.7	5.2	8 300	11 000	32005JR	4CC	11.8	29.5	30	42.5	40	44	3	3.5	0.6	0.6	0.43	1.39	0.77	0.118
25	47	15	-	-	-	-	-	-	-	-	-	32005JR RS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	52	16	16	12	1	1	44.1	44.0	6.10	7 500	10 000	32028JR	-	12.7	33.5	33	-	-	49	3	4	1	1	0.43	1.39	0.77	0.150
30	55	17	17	13	1	1	47.9	48	6.75	7 000	9 400	32006JR	4CC	13.6	35.5	35	49.5	47	52	3	4	1	1	0.43	1.39	0.77	0.177
30	55	17	-	-	-	-	-	-	-	-	-	32006JR RS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	62	18	18	14	1	1	57	59.4	8.4	6 200	8 200	32007JR	4CC	15.1	40.5	40	56.5	54	59	4	4	1	1	0.45	1.32	0.73	0.231
40	68	19	19	14.5	1	1	67.2	71.4	10.3	5 600	7 400	32008JR	3CD	15.1	45.5	46	62.5	60	65	4	4.5	1	1	0.38	1.58	0.87	0.282
45	75	20	20	15.5	1	1	78.8	86.5	12.6	5 000	6 600	32009JR	3CC	16.5	50.5	51	69.5	67	72	4	4.5	1	1	0.39	1.53	0.84	0.354
50	80	20	20	15.5	1	1	82.7	94.5	13.8	4 600	6 100	32010JR	3CC	17.7	55.5	56	74.5	72	77	4	4.5	1	1	0.42	1.42	0.78	0.389
55	90	23	23	17.5	1.5	1.5	106	121	18.2	4 100	5 500	32011JR	3CC	19.8	63.5	63	81.5	81	86	4	5.5	1.5	1.5	0.41	1.48	0.81	0.569
60	95	23	23	17.5	1.5	1.5	108	127	19	3 900	5 200	32012JR	4CC	21	68.5	67	86.5	85	91	4	5.5	1.5	1.5	0.43	1.39	0.77	0.621
65	110	23	23	17.5	1.5	1.5	113	117	20.6	3 600	4 800	32013JR	3DE	22.5	73.5	72	-	-	97	4	5.5	1.5	1.5	0.46	1.31	0.72	0.664
70	110	25	25	19	1.5	1.5	136	163	24.8	3 300	4 400	32014JR	4CC	23.6	78.5	78	101.5	98	105	5	6	1.5	1.5	0.43	1.38	0.76	0.884
75	115	25	25	19	1.5	1.5	139	169	25.8	3 100	4 200	32015JR	4CC	25.1	83.5	83	106.5	103	110	5	6	1.5	1.5	0.46	1.31	0.72	0.930
80	125	29	29	22	1.5	1.5	185	225	34.6	2 900	3 900	32016JR	3CC	26.7	88.5	89	116.5	112	120	6	7	1.5	1.5	0.42	1.42	0.78	1.32
85	130	29	29	22	1.5	1.5	189	234	35.5	2 800	3 700	32017JR	4CC	28	93.5	94	121.5	117	125	6	7	1.5	1.5	0.44	1.36	0.75	1.38
90	140	32	32	24	2	1.5	224	276	41.5	2 600	3 500	32018JR	3CC	29.8	100	100	131.5	125	134	6	8	2	1.5	0.42	1.42	0.78	1.8
95	145	32	32	24	2	1.5	229	287	42.6	2 500	3 300	32019JR	4CC	31.2	105	105	136.5	130	140	6	8	2	1.5	0.44	1.36	0.75	1.88
100	150	32	32	24	2	1.5	233	298	43.8	2 400	3 200	32020JR	4CC	32.6	110	109	141	134	144	6	8	2	1.5	0.46	1.31	0.72	1.95
110	170	38	38	29	2.5	2	312	395	56.7	2 100	2 800	32022JR	4DC	36.1	122	122	160	152	163	7	9	2	2	0.43	1.39	0.77	3.12
120	180	38	38	29	2.5	2	325	427	60	2 000	2 600	32024JR	4DC	38.8	132	131	170	161	173	7	9	2	2	0.46	1.31	0.72	3.34
130	200	45	45	34	2.5	2	428	563	77.4	1 800	2 300	32026JR	4EC	42.9	142	144	190	178	192	8	11	2	2	0.43	1.38	0.76	5.04
140	210	45	45	34	2.5	2	435	585	79.2	1 700	2 200	32028JR	4DC	45.6	152	153	200	187	202	8	11	2	2	0.46	1.31	0.72	5.28
150	225	48	48	36	3	2.5	492	668	79.6	1 500	2 000	32030JR	-	48.8	164	164	-	213	200	216	8	2.5	2	0.46	1.31	0.72	6.41

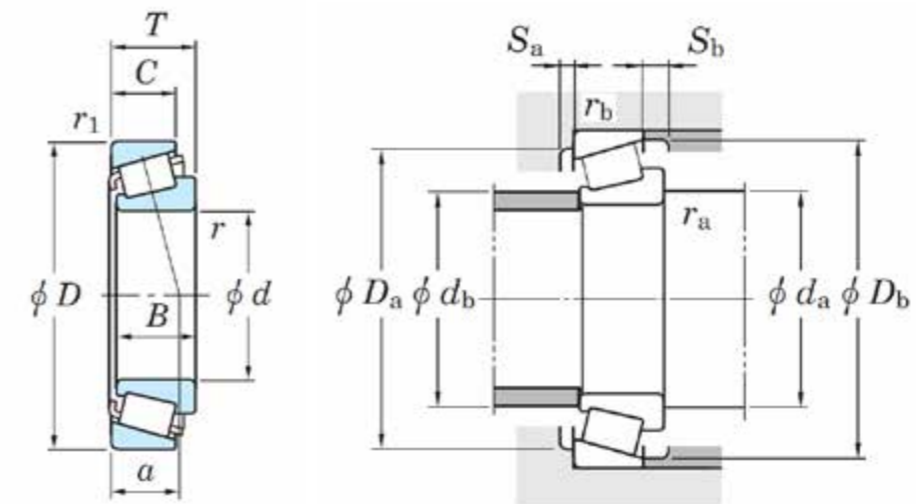
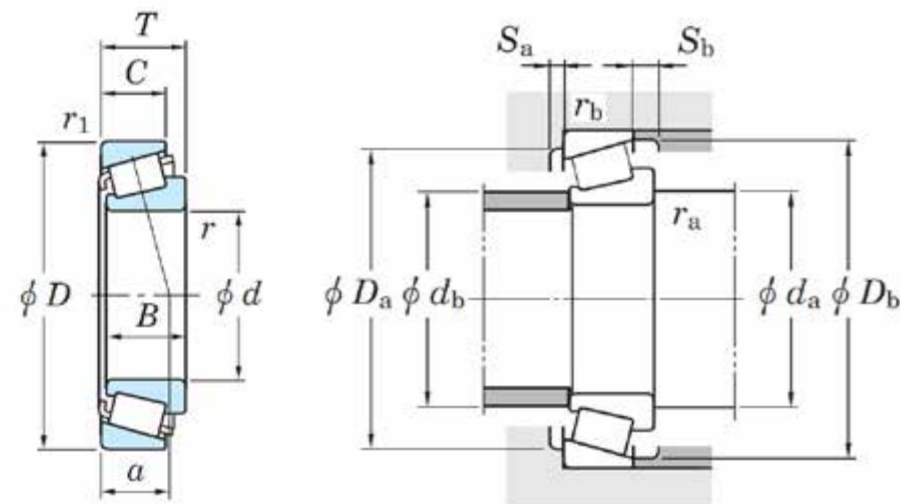
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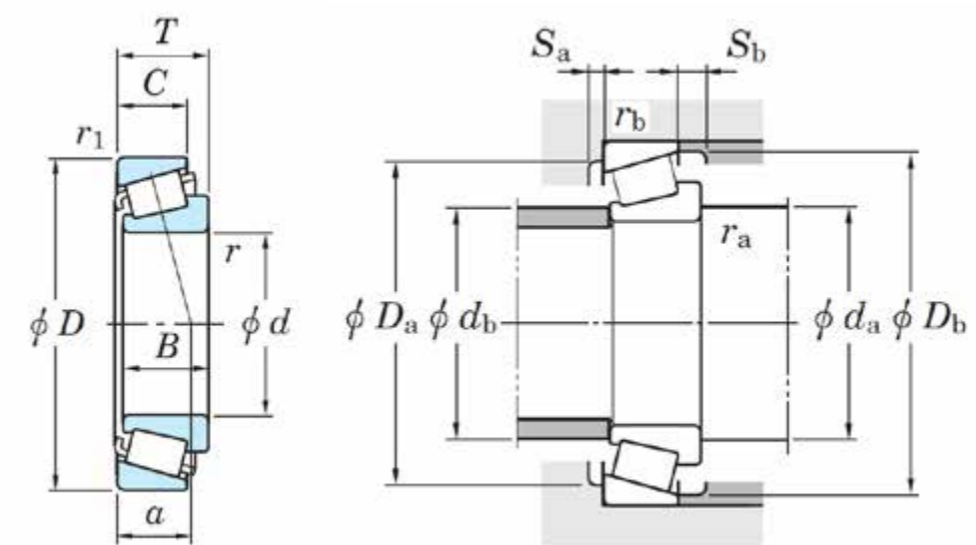
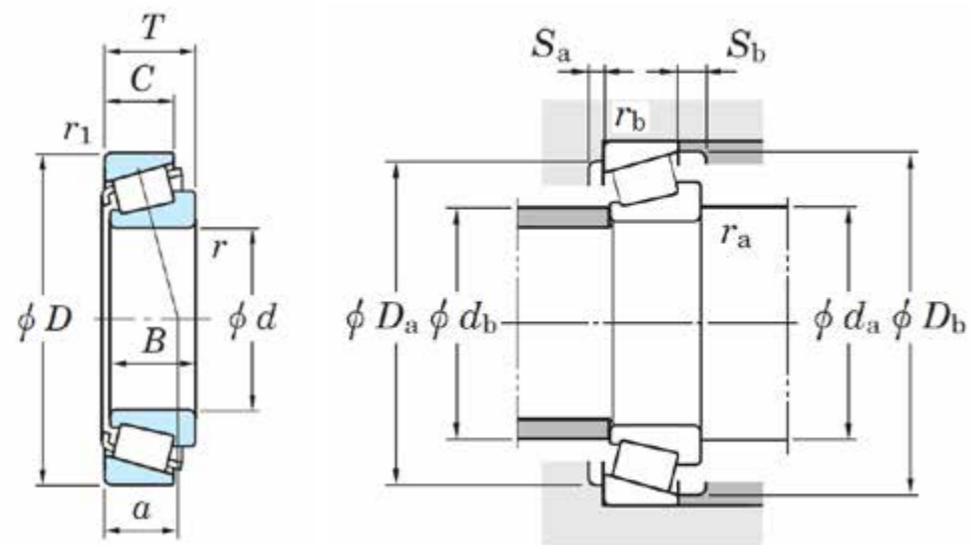
Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)		
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db		Sa	Sb		ra	rb		Y1	Y0
															min	max	max	min	min	min	min	min		max	max			
17	40	17.25	16	14	1	1	34.3	27.5	3.85	10000	14000	32203JR	2DD	11.4	22.5	23	34.5	33	37	2	3	1	1	0.31	1.92	1.06	0.104	
20	47	19.25	18	15	1	1	41.4	34.7	4.9	8900	12000	32204JR	2DD	12.5	25.5	27	41.5	39	43	2	4	1	1	0.33	1.81	1	0.159	
25	52	19.25	18	16	1	1	49.7	44.8	6.35	7900	11000	32205JR	2CD	13.5	30.5	31	46.5	43	48	2	4	1	1	0.36	1.67	0.92	0.188	
30	62	21.25	20	17	1	1	63.3	57.9	8.4	6500	8700	32206JR	3DC	15.9	35.5	37	56.5	52	58	2	4	1	1	0.37	1.6	0.88	0.292	
35	72	24.25	23	19	1.5	1.5	86.9	82.4	12.2	5600	7500	32207JR	3DC	18.2	43.5	43	63.5	61	67	3	5	1.5	1.5	0.37	1.6	0.88	0.453	
40	80	24.75	23	19	1.5	1.5	97	90.8	13.6	5000	6600	32208JR	3DC	19.4	48.5	48	71.5	68	75	3	5.5	1.5	1.5	0.37	1.6	0.88	0.554	
45	85	24.75	23	19	1.5	1.5	105	104	15.6	4600	6100	32209JR	3DC	20.3	53.5	53	76.5	73	81	3	5.5	1.5	1.5	0.4	1.48	0.81	0.597	
50	90	24.75	23	19	1.5	1.5	106	105	15.9	4300	5700	32210JR	3DC	20.6	58.5	58	81.5	78	85	3	5.5	1.5	1.5	0.42	1.43	0.79	0.643	
55	100	26.75	25	21	2	1.5	134	133	20.5	3900	5200	32211JR	3DC	23	65	63	90	87	95	4	5.5	2	1.5	0.4	1.48	0.81	0.863	
60	110	29.75	28	24	2	1.5	164	167	25.9	3500	4700	32212JR	3EC	25.1	70	69	100	95	104	4	5.5	2	1.5	0.4	1.48	0.81	1.19	
65	120	32.75	31	27	2	1.5	196	203	31.7	3200	4300	32213JR	3EC	26.6	75	76	110	104	115	4	5.5	2	1.5	0.4	1.48	0.81	1.58	
70	125	33.25	31	27	2	1.5	212	225	35.2	3100	4100	32214JR	3EC	29.2	80	80	116.5	108	119	4	6	2	1.5	0.42	1.43	0.79	1.71	
75	130	33.25	31	27	2	1.5	218	234	36.4	2900	3900	32215JR	4DC	30.2	85	85	121.5	114	125	4	6	2	1.5	0.44	1.38	0.76	1.77	
80	140	35.25	33	28	2.5	2	253	271	41.5	2700	3600	32216JR	3EC	31.7	92	90	130	122	134	4	7	2	2	0.42	1.43	0.79	2.17	
85	150	38.5	36	30	2.5	2	290	315	47.5	2500	3400	32217JR	3EC	34.2	97	96	140	130	142	5	8.5	2	2	0.42	1.43	0.79	2.8	
90	160	42.5	40	34	2.5	2	329	362	53.7	2400	3200	32218JR	3FC	37	102	102	150	138	152	5	8.5	2	2	0.42	1.43	0.79	3.47	
95	170	45.5	43	37	3	2.5	389	439	64.1	2200	3000	32219JR	3FC	38.9	109	108	158	145	161	5	8.5	2.5	2	0.42	1.43	0.79	4.34	
100	180	49	46	39	3	2.5	435	495	63.9	2100	2800	32220JR	3FC	42.1	114	114	168	154	171	5	10	2.5	2	0.42	1.43	0.79	5.21	
105	190	53	50	43	3	2.5	490	567	73	2000	2700	32221JR	3FC	44.8	119	120	178	161	180	6	10	2.5	2	0.42	1.43	0.79	6.37	
110	200	56	53	46	3	2.5	547	640	80.4	1900	2500	32222JR	3FC	46.7	124	126	188	170	190	6	10	2.5	2	0.42	1.43	0.79	7.45	
120	215	61.5	58	50	3	2.5	589	691	84	1700	2300	32224JR	4FD	51.6	134	136	203	181	204	7	11.5	2.5	2	0.44	1.38	0.76	9.04	
130	230	67.75	64	54	4	3	693	830	99.9	1600	2200	32226JR	4FD	56.0	148	146	216	193	219	7	13.5	3	2.5	0.44	1.38	0.76	11.5	
140	250	71.75	68	58	4	3	796	961	112	1500	2000	32228JR	4FD	60.0	158	158	236	210	238	9	13.5	3	2.5	0.44	1.38	0.76	14.7	
150	270	77	73	60	4	3	881	1070	122	1300	1800	32230JR	4GD	65.2	168	170	256	226	254	8	17	3	2.5	0.44	1.38	0.76	18.2	



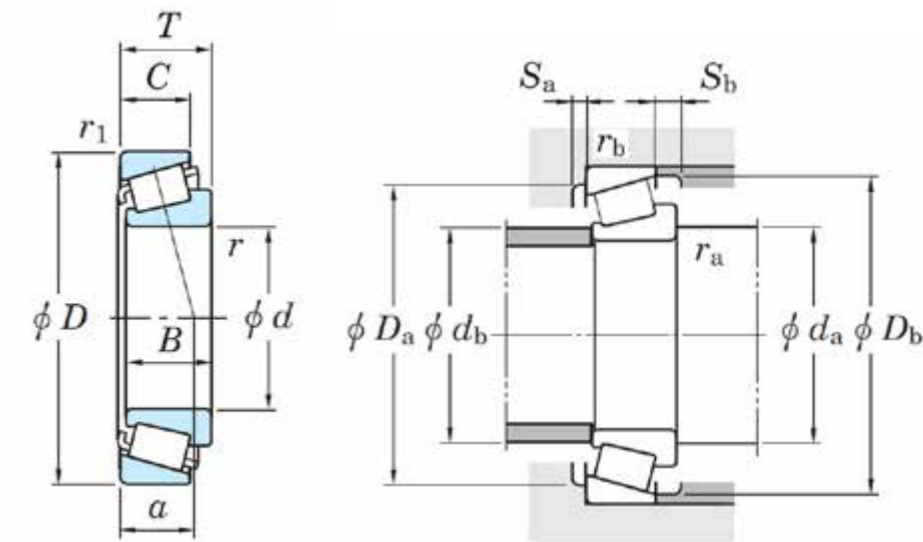
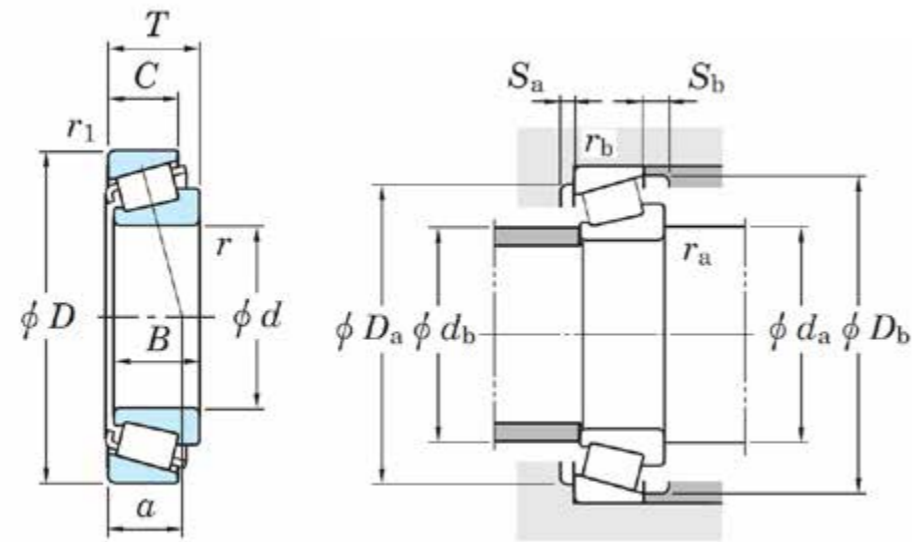
Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions								Constant	Axial load factors		Mass	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db	Sa	Sb	ra		rb	Y1		Y0
															min	max	max	min	min	min	min	max		max			
17	47	20.25	19	16	1	1	39.9	29.9	4.25	9 400	13 000	32303JR	2FD	12.4	22.5	25	41.5	39	43	2	4	1	1	0.28	2.11	1.16	0.170
20	52	22.25	21	18	1.5	1.5	56.5	46.7	6.70	8400	11000	32304JR	2FD	14.4	28.5	27	43.5	43	47	3	4	1.5	1.5	0.30	2.00	1.10	0.244
25	62	25.25	24	20	1.5	1.5	76.6	64.1	9.5	6 900	9 100	32305JR	2FD	16.6	33.5	33	53.5	52	57	3	5	1.5	1.5	0.3	2	1.1	0.386
30	72	28.75	27	23	1.5	1.5	103	91.6	13.8	5 900	7 900	32306JR	2FD	18.9	38.5	39	63.5	59	66	3	5.5	1.5	1.5	0.31	1.9	1.05	0.588
35	80	32.75	31	25	2	1.5	126	114	17.3	5 300	7 000	32307JR	2FE	20.6	45	44	70	66	74	3	7.5	2	1.5	0.31	1.9	1.05	0.776
40	90	35.25	33	27	2	1.5	145	139	21.3	4 600	6 200	32308JR	2FD	24.3	50	50	80	73	82	3	8	2	1.5	0.35	1.74	0.96	1.06
45	100	38.25	36	30	2	1.5	183	180	27.7	4 100	5 500	32309JR	2FD	26.8	55	56	90	82	93	3	8	2	1.5	0.35	1.74	0.96	1.43
50	110	42.25	40	33	2.5	2	221	220	34.2	3 700	5 000	32310JR	2FD	29.4	62	62	98	90	102	3	9	2	2	0.35	1.74	0.96	1.89
55	120	45.5	43	35	2.5	2	250	250	39.1	3 400	4 500	32311JR	2FD	32.4	67	68	108	99	111	4	10.5	2	2	0.35	1.74	0.96	2.38
60	130	48.5	46	37	3	2.5	277	275	38.6	3 100	4 200	32312JR	2FD	32.3	74	74	118	107	120	4	11.5	2.5	2	0.35	1.74	0.96	2.87
65	140	51	48	39	3	2.5	346	357	49.6	2 900	3 900	32313JR	2GD	34.7	79	80	128	117	130	4	12	2.5	2	0.35	1.74	0.96	3.64
70	150	54	51	42	3	2.5	396	414	57.2	2 700	3 600	32314JR	2GD	37.4	84	86	138	125	140	4	12	2.5	2	0.35	1.74	0.96	4.5
75	160	58	55	45	3	2.5	454	481	64.6	2 500	3 300	32315JR	2GD	40	89	91	148	133	149	4	13	2.5	2	0.35	1.74	0.96	5.41
80	170	61.5	58	48	3	2.5	480	503	67.0	2300	3100	32316JR	2GD	43.5	94	98	158	142	159	4	13.5	2.5	2	0.35	1.74	0.96	6.31
85	180	63.5	60	49	4	3	549	587	77.6	2200	3000	32317JR	2GD	43.8	103	103	166	150	167	5	14.5	3	2.5	0.35	1.74	0.96	7.42
90	190	67.5	64	53	4	3	577	614	78.7	2100	2800	32318JR	2GD	46.6	108	108	176	157	177	5	14.5	3	2.5	0.35	1.74	0.96	8.61
95	200	71.5	67	55	4	3	646	695	89.2	2000	2600	32319JR	2GB	49.8	113	115	186	166	186	5	16.5	3	2.5	0.35	1.74	0.96	10.1
100	215	77.5	73	60	4	3	725	783	96.9	1800	2400	32320JR	2GD	53.9	118	123	201	177	200	8	17.5	3	2.5	0.35	1.74	0.96	13.0



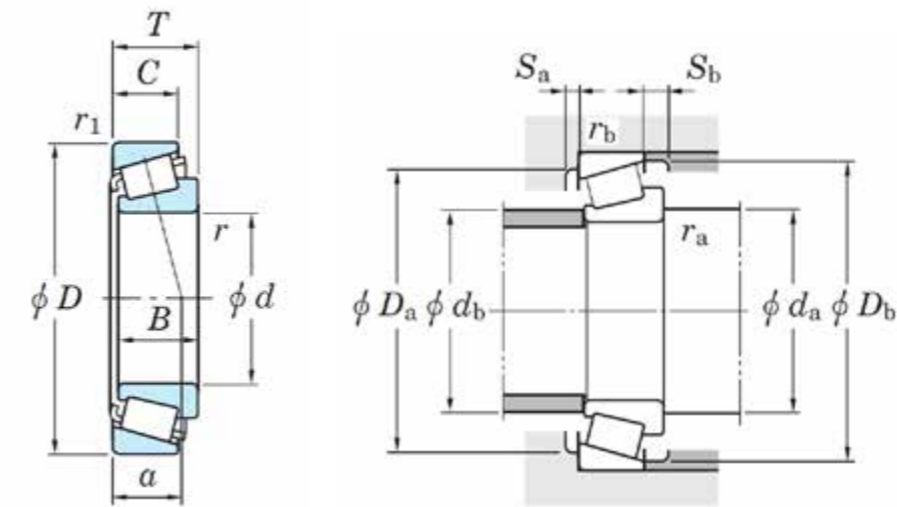
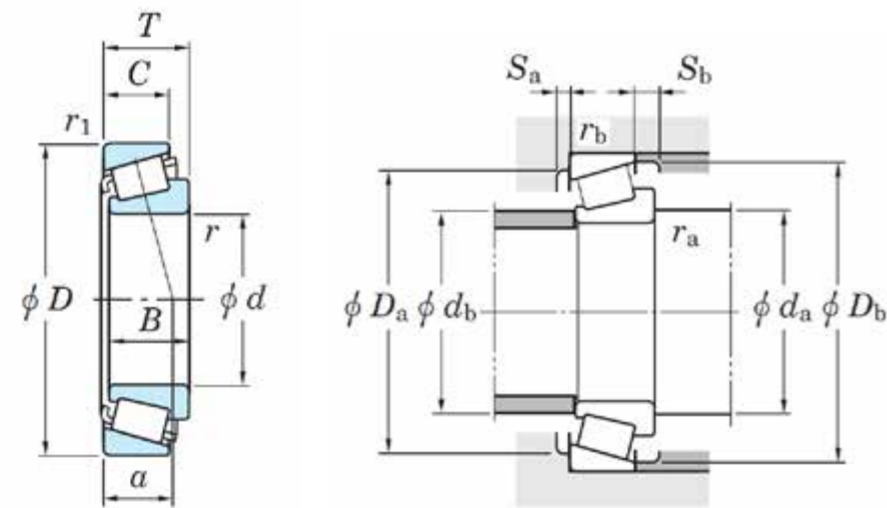
Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions								Constant	Axial load factors		Mass	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db	Sa	Sb	ra		rb			
															min	max	max	min	min	min	min	max		max			
35	55	14	14	11.5	0.6	0.6	32.8	36.5	5.1	6 600	8 800	32907JR-2	2BD	10.9	39.5	40	50.5	49	52	2.5	2.5	0.6	0.6	0.29	2.06	1.13	0.12
35	55	14	14	11.5	0.6	0.6	32.8	36.5	5.10	6 600	8 800	32907JR-3	2BD	10.9	39.5	40	50.5	49	52	2.5	2.5	0.6	0.6	0.29	2.06	1.13	0.120
40	62	15	15	12	0.6	0.6	42.1	48.5	6.90	5 900	7 800	32908JR	2BC	11.9	44.5	45	57.5	55	59	3	3	0.6	0.6	0.29	2.07	1.14	0.164
45	68	15	15	12	0.6	0.6	43.5	52.4	7.45	5 300	7 100	32909JR	2BC	12.5	49.5	50	63.5	61	64	3	3	0.6	0.6	0.32	1.88	1.04	0.190
50	72	15	15	12	0.6	0.6	45	56.3	8.00	4 900	6 600	32910JR	2BC	13.7	54.5	55	67.5	65	69	3	3	0.6	0.6	0.34	1.76	0.97	0.195
55	80	17	17	14	1	1	55.8	73.3	10.60	4 400	5 900	32911JR	2BC	14.5	61	61	74	72	76	3	3	1	1	0.31	1.94	1.07	0.285
60	85	17	17	14	1	1	57.6	78.2	11.30	4 100	5 500	32912JR	2BC	15.6	65.5	66	79.5	77	81	3	3	1	1	0.33	1.81	1	0.306
65	90	17	17	14	1	1	59.2	83.1	12	3 900	5 200	32913JR	2BC	16.8	70.5	70	84.5	81	86	3	3	1	1	0.35	1.7	0.93	0.327
70	100	20	20	16	1	1	89	115	17.2	3 500	4 700	32914JR	2BC	17.8	75.5	77	94.5	91	96	4	4	1	1	0.32	1.9	1.05	0.496
75	105	20	20	16	1	1	92.2	123	18.4	3 000	4 400	32915JR	2BC	18.9	80.5	81	99.5	96	101	4	4	1	1	0.33	1.8	0.99	0.526



Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da	Db	Sa	Sb	ra	rb		Y1	Y0		
												min	max	max	min	min	min	max	max								
25	47	17	17	14	0.6	0.6	42	42.3	5.95	8300	11000	33005JR	2CE	10.9	29.5	30	42.5	41	44	3	3	0.6	0.6	0.29	2.07	1.14	0.131
30	55	20	20	16	1	1	54.1	55.2	7.90	7000	9400	33006JR	2CE	13.0	35.5	36	49.5	48	52	3	4	1	1	0.29	2.06	1.13	0.203
35	62	21	21	17	1	1	64.3	68	9.85	6200	8200	33007JR	2CE	14.2	40.5	41	56.5	55	59	3	4	1	1	0.31	1.97	1.08	0.263
40	68	22	22	18	1	1	75.9	84.6	12.4	5500	7400	33008JR	2BE	14.7	45.5	46	62.5	60	65	3	4	1	1	0.28	2.12	1.17	0.326
45	75	24	24	19	1	1	87.4	101	14.9	5000	6700	33009JR	2CE	16.4	50.5	51	69.5	67	71	4	5	1	1	0.29	2.04	1.12	0.416
50	80	24	24	19	1	1	91.8	110	16.3	4600	6100	33010JR	2CE	17.4	55.5	56	74.5	72	76	4	5	1	1	0.32	1.90	1.04	0.451
55	90	27	27	21	1.5	1.5	121	149	22.6	4100	5400	33011JR	2CE	19.3	63.5	63	81.5	81	86	5	6	1.5	1.5	0.31	1.92	1.06	0.672
60	95	27	27	21	1.5	1.5	127	162	24.5	3900	5200	33012JR	2CE	20.1	68.5	67	86.5	85	90	5	6	1.5	1.5	0.33	1.83	1.01	0.719
65	100	27	27	21	1.5	1.5	129	169	25.5	3600	4800	33013JR	2CE	21.1	73.5	72	91.5	89	96	5	6	1.5	1.5	0.35	1.72	0.95	0.762
70	110	31	31	25.5	1.5	1.5	168	208	32.3	3300	4400	33014JR	2CE	22.1	78.5	78	101.5	99	105	5	5.5	1.5	1.5	0.28	2.11	1.16	1.09
75	115	31	31	25.5	1.5	1.5	177	225	35.0	3200	4200	33015JR	2CE	22.9	83.5	83	106.5	104	110	6	5.5	1.5	1.5	0.30	2.01	1.11	1.16
80	125	36	36	29.5	1.5	1.5	218	288	44.8	2900	3900	33016JR	2CE	25.1	88.5	90	116.5	112	119	6	6.5	1.5	1.5	0.28	2.16	1.19	1.63
85	130	36	36	29.5	1.5	1.5	222	300	46.0	2800	3700	33017JR	2CE	26.3	93.5	94	121.5	118	125	6	6.5	1.5	1.5	0.29	2.06	1.13	1.72
90	140	39	39	32.5	2	1.5	278	367	55.6	2600	3400	33018JR	2CE	27.1	100	100	131.5	127	135	7	6.5	2	1.5	0.27	2.23	1.23	2.22
95	145	39	39	32.5	2	1.5	284	382	57.3	2500	3300	33019JR	2CE	27.8	105	104	136.5	131	139	7	6.5	2	1.5	0.28	2.16	1.19	2.31
100	150	39	39	32.5	2	1.5	290	397	59.0	2400	3200	33020JR	2CE	28.6	110	108	141	135	143	7	6.5	2	1.5	0.29	2.09	1.15	2.40
105	160	43	43	34	2.5	2	335	461	67.4	2200	3000	33021JR	2DE	30.9	117	116	150	145	153	7	9	2	2	0.28	2.12	1.17	3.08
110	170	47	47	37	2.5	2	360	502	64.9	2100	2800	33022JR	2DE	33.4	122	123	160	152	161	7	10	2	2	0.29	2.09	1.15	3.81
120	180	48	48	38	2.5	2	375	540	68.5	2000	2600	33024JR	2DE	36.2	132	132	170	160	171	6	10	2	2	0.31	1.97	1.08	4.16
130	200	55	55	43	2.5	2	489	705	85.8	1700	2300	33026JR	2EE	42.5	142	143	190	178	192	8	12	2	2	0.34	1.76	0.97	6.19
150	225	59	59	46	3	2.5	575	869	101	1500	2000	33030JR	2EF	47.8	164	164	213	200	217	8	13	2.5	2	0.36	1.65	0.9	8.09



Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)	
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da	Db	Sa	Sb	ra	rb		Y1	Y0		
															min	max	max	min	min	min	min	max		max			
40	75	26	26	20.5	1.5	1.5	103	108	16.1	5200	6900	33108JR	2CE	18.3	48.5	47	66.5	65	71	4	5.5	1.5	1.5	0.36	1.69	0.93	0.508
45	80	26	26	20.5	1.5	1.5	110	120	17.9	4800	6400	33109JR	3CE	19.4	53.5	52	71.5	69	76.5	4	5.5	1.5	1.5	0.38	1.57	0.86	0.563
50	85	26	26	20	1.5	1.5	112	127	18.9	4400	5900	33110JR	3CE	20.6	58.5	56	76.5	74	81.5	4	6	1.5	1.5	0.41	1.46	0.80	0.594
55	95	30	30	23	1.5	1.5	145	161	24.6	4000	5300	33111JR	3CE	22.5	63.5	62	86.5	83	91	5	7	1.5	1.5	0.37	1.60	0.88	0.868
60	100	30	30	23	1.5	1.5	149	170	25.9	3700	5000	33112JR	3CE	23.7	68.5	67	91.5	88	96	5	7	1.5	1.5	0.40	1.51	0.83	0.923
65	110	34	34	26.5	1.5	1.5	191	223	34.3	3400	4600	33113JR	3DE	25.9	73.5	73	101.5	96	106	6	7.5	1.5	1.5	0.39	1.55	0.85	1.33
75	125	37	37	29	2	1.5	234	280	43.4	3000	4000	33115JR	3DE	29.3	85	84	116.5	109	120	6	8	2	1.5	0.40	1.51	0.83	1.84
80	130	37	37	29	2	1.5	240	294	44.9	2800	3800	33116JR	3DE	30.5	90	89	121.5	114	126	6	8	2	1.5	0.42	1.44	0.79	1.93
90	150	45	45	35	2.5	2	324	413	61.1	2500	3300	33118JR	3DE	35.4	102	100	140	130	144	7	10	2	2	0.40	1.51	0.83	3.13



Boundary dimensions(mm)							Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)		Bearing No.	Dimension series to ISO355	Load center	Mounting dimensions (mm)								Constant e	Axial load factors		Mass (kg)		
d	D	T	B	C	r min.	r1 min.	Cr	Cor	Cu	Grease lub.	Oil lub.				da	db	Da		Db		Sa	Sb		ra	rb		Y1	Y0
															min	max	max	min	min	min	min	min		max	max			
25	52	22	22	18	1	1	61.1	58.5	8.25	7900	10000	33205JR	2DE	14.1	30.5	30	46.5	43	49	4	4	1	1	0.35	1.71	0.94	0.225	
30	62	25	25	19.5	1	1	83.1	79.4	11.6	6500	8700	33206JR	2DE	16.3	35.5	36	56.5	53	59	5	5.5	1	1	0.34	1.76	0.97	0.359	
35	72	28	28	22	1.5	1.5	110	107	15.8	5700	7500	33207JR	2DE	18.4	43.5	42	63.5	61	68	5	6	1.5	1.5	0.35	1.70	0.93	0.551	
40	80	32	32	25	1.5	1.5	135	139	20.8	5000	6700	33208JR	2DE	20.7	48.5	47	71.5	67	76	5	7	1.5	1.5	0.36	1.68	0.92	0.758	
45	85	32	32	25	1.5	1.5	139	149	22.3	4600	6200	33209JR	3DE	21.8	53.5	52	76.5	72	81	5	7	1.5	1.5	0.39	1.56	0.86	0.818	
50	90	32	32	24.5	1.5	1.5	150	167	25.0	4300	5700	33210JR	3DE	23.1	58.5	57	81.5	77	86.5	5	7.5	1.5	1.5	0.41	1.45	0.80	0.887	
55	100	35	35	27	2	1.5	178	189	28.9	3900	5200	33211JR	3DE	25.3	65	62	90	85	96	6	8	2	1.5	0.40	1.50	0.83	1.18	
60	110	38	38	29	2	1.5	217	239	36.6	3600	4700	33212JR	3EE	27.2	70	69	100	93	105	6	9	2	1.5	0.40	1.48	0.82	1.57	
65	120	41	41	32	2	1.5	250	277	43.0	3200	4300	33213JR	3EE	30	75	74	110	102	115	7	9	2	1.5	0.39	1.54	0.85	2.02	
70	125	41	41	32	2	1.5	258	294	45.5	3100	4100	33214JR	3EE	31.2	80	79	116.5	107	120	7	9	2	1.5	0.41	1.47	0.81	2.16	
75	130	41	41	31	2	1.5	266	310	47.7	2900	3900	33215JR	3EE	32.5	85	83	121.5	111	125	7	10	2	1.5	0.43	1.40	0.77	2.26	
80	140	46	46	35	2.5	2	313	371	56.1	2700	3600	33216JR	3EE	35.7	92	89	130	119	135	7	11	2	2	0.43	1.41	0.78	2.99	
85	150	49	49	37	2.5	2	368	439	59.1	2500	3400	33217JR	3EE	37.1	97	95	140	128	144	7	12	2	2	0.42	1.43	0.79	3.63	
95	170	58	58	44	3	2.5	468	582	74.0	2200	2900	33219JR	3FE	42.8	109	107	158	144	163	9	14	2.5	2	0.41	1.47	0.81	5.66	
100	180	63	63	48	3	2.5	540	680	85.8	2100	2800	33220JR	3FE	45.7	114	112	168	151	172	10	15	2.5	2	0.40	1.48	0.82	6.92	