



Ball & Roller Bearings



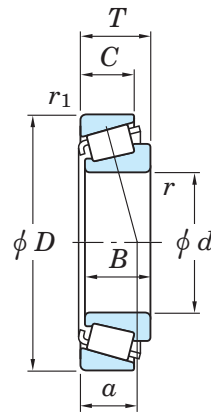
JTEKT

JTEKT CORPORATION

CAT. NO. B2001E-3

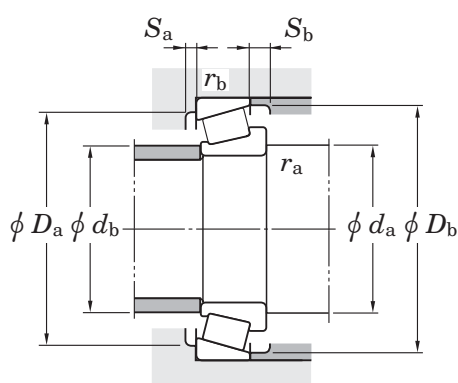
Single-row tapered roller bearings metric series

d 15 ~ 22 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
15	35	11.75	11	10	0.6	0.6	15.8	14.5	12 000	16 000	30202R	
	42	14.25	13	11	1	1	21.9	19.2	10 000	14 000	30302JR	
17	40	13.25	12	11	1	1	20.8	20.7	10 000	14 000	30203JR	
	40	17.25	16	14	1	1	27.4	27.5	10 000	14 000	32203JR	
	47	15.25	14	12	1	1	27.4	24.5	9 200	12 000	30303JR	
	47	15.25	14	12	1	1	27.4	24.5	9 200	12 000	30303R	
	47	20.25	19	16	1	1	31.9	29.9	9 400	13 000	32303	
	47	20.25	19	16	1	1	36.6	35.9	9 400	13 000	32303JR	
20	42	15	15	12	0.6	0.6	27.3	31.5	9 700	13 000	32004JR	
	47	15.25	14	12	1	1	25.8	25.5	9 000	12 000	57008R	
	47	15.25	14	12	1	1	27.0	27.2	8 700	12 000	30204JR	
	47	19.25	18	15	1	1	33.1	34.7	8 900	12 000	32204JR	
	47	19.25	18	16	1	1	33.3	37.0	9 100	12 000	32204XR	
	52	16.25	16	12	1.5	1.5	30.5	28.4	8 300	11 000	30304AC	
	52	16.25	16	13	1.5	1.5	36.2	35.1	8 300	11 000	30304AJR	
	52	22.25	21	18	1.5	1.5	41.8	44.9	8 600	12 000	32304CR	
	52	22.25	21	18	1.5	1.5	45.1	46.7	8 400	11 000	32304JR	
22	44	15	15	11.5	0.6	0.6	28.3	33.6	9 100	12 000	320/22JR	
	47	17	17.5	13.5	1	1	32.7	35.9	8 700	12 000	T2CC022	
	50	15.25	14	12	1	1	29.2	28.6	8 400	11 000	302/22CR	
	50	15.25	14	12	1	1	29.3	30.9	8 100	11 000	302/22R	
	50	19.25	18	15	1	1	35.1	39.1	8 400	11 000	322/22CR	
	50	19.25	18	15	1	1	36.8	41.6	8 100	11 000	322/22R	
	56	17.25	16	13	1.5	1.5	36.3	36.6	7 700	10 000	303/22XR	
	56	17.25	16	14	1.5	1.5	41.7	41.1	7 500	10 000	303/22R	
	56	22.25	21	17	1.5	1.5	48.3	50.6	8 000	11 000	323/22CR	
	56	22.25	21	18	1.5	1.5	50.6	52.7	7 600	10 000	323/22R	

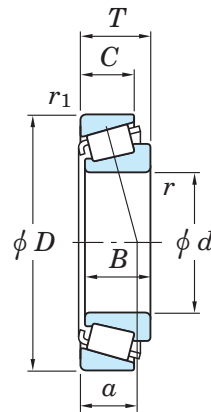
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Con-stant <i>e</i>	Axial load factors		(Refer.) Mass (kg)	
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max. min.		<i>D</i> _b min.		<i>S</i> _a min.	<i>S</i> _b min.		<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁
	—	8.3	19.5	20	30.5	29	33	2	1.7	0.6	0.6	0.32	1.88	1.04	0.054
	2FB	10.0	20.5	22	36.5	35	38	2	3	1	1	0.29	2.11	1.16	0.098
	2DB	10.1	22.5	23	34.5	33	37	2	2	1	1	0.35	1.74	0.96	0.081
	2DD	11.4	22.5	23	34.5	33	37	2	3	1	1	0.31	1.92	1.06	0.104
	2FB	11.0	22.5	25	41.5	40	42	2	3	1	1	0.29	2.11	1.16	0.133
	—	10.5	22.5	25	41.5	40	42	2	3	1	1	0.28	2.11	1.16	0.127
	—	12.4	22.5	25	41.5	39	43	2	4	1	1	0.28	2.11	1.16	0.170
	2FD	12.2	22.5	25	41.5	39	43	2	4	1	1	0.29	2.11	1.16	0.176
	3CC	10.5	24.5	25	37.5	35	39	3	3	0.6	0.6	0.37	1.60	0.88	0.102
	—	12.9	25.5	26	41.5	37	44	2	3	1	1	0.52	1.16	0.64	0.125
	2DB	11.8	25.5	27	41.5	39	44	2	3	1	1	0.35	1.74	0.96	0.127
	2DD	12.5	25.5	27	41.5	39	43	2	4	1	1	0.33	1.81	1.00	0.159
	—	15.3	25.5	25	41.5	35	45	2	3	1	1	0.55	1.10	0.60	0.170
	—	13.5	28.5	28	43.5	42	49	4	4	1.5	1.5	0.55	1.10	0.60	0.170
	—	11.1	28.5	28	44	44	47	2	3	1.5	1.5	0.30	2.00	1.10	0.179
	—	16.5	28.5	25	43.5	37	48	3	4	1.5	1.5	0.55	1.10	0.60	0.250
	2FD	14.4	28.5	27	43.5	43	47	3	4	1.5	1.5	0.30	2.00	1.10	0.244
	3CC	11.0	26.5	27	39.5	38	41	3	3.5	0.6	0.6	0.40	1.51	0.83	0.108
	2CC	11.3	27.5	28	41.5	40	44	4	3.5	1	1	0.33	1.79	0.99	0.138
	—	13.9	27.5	28	44.5	40	47	2	3	1	1	0.55	1.10	0.60	0.140
	—	12.2	27.5	30	44.5	41	46	2	3	1	1	0.37	1.60	0.88	0.144
	—	15.5	27.5	28	44.5	38	47	2	4	1	1	0.55	1.10	0.60	0.170
	—	14.0	27.5	29	44.5	41	46	2	4	1	1	0.37	1.60	0.88	0.178
	—	15.7	30.5	31	47.5	44	52	3	4	1.5	1.5	0.59	1.02	0.56	0.210
	—	12.2	30.5	32	47.5	47	51	2	3	1.5	1.5	0.31	1.97	1.08	0.216
	—	16.9	30.5	28	47.5	41	52	3	5	1.5	1.5	0.55	1.10	0.60	0.290
	—	14.6	30.5	31	47.5	46	51	3	4	1.5	1.5	0.31	1.97	1.08	0.273

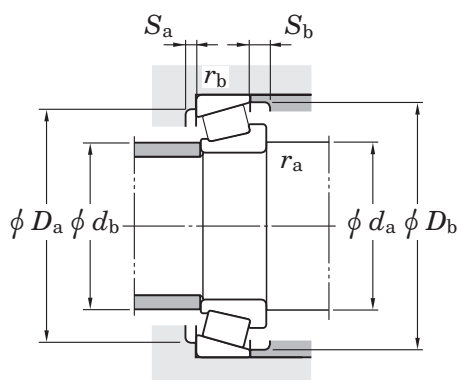
Single-row tapered roller bearings metric series

d 25 ~ (30) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
25	47	15	15	11.5	0.6	0.6	30.2	37.7	8 300	11 000	32005JR	
	47	17	17	14	0.6	0.6	33.5	42.3	8 300	11 000	33005JR	
	52	16.25	15	12	1	1	30.4	32.4	7 900	11 000	30205XR	
	52	16.25	15	13	1	1	31.5	33.7	7 800	10 000	30205JR	
	52	19.25	18	16	1	1	36.4	43.2	7 900	11 000	32205XR	
	52	19.25	18	16	1	1	39.8	44.8	7 900	11 000	32205JR	
	52	22	22	18	1	1	48.9	58.5	7 900	10 000	33205JR	
	62	18.25	17	13	1.5	1.5	39.8	42.5	5 700	8 000	30305DJR	
	62	18.25	17	14	1.5	1.5	45.0	45.8	6 700	9 000	TR0506R	
	62	18.25	17	15	1.5	1.5	48.2	46.9	6 800	9 000	30305JR	
	62	25.25	24	19	1.5	1.5	57.2	65.8	7 000	9 300	32305XR	
	62	25.25	24	20	1.5	1.5	61.2	64.1	6 900	9 100	32305JR	
28	52	16	16	12	1	1	35.2	44.0	7 500	10 000	320/28JR	
	58	17.25	16	13	1	1	38.8	41.7	7 000	9 300	302/28CR	
	58	17.25	16	14	1	1	38.8	42.0	7 000	9 300	302/28R	
	58	20.25	19	16	1	1	44.9	54.1	7 100	9 400	322/28CR	
	58	20.25	19	16	1	1	49.2	55.2	6 900	9 100	322/28R	
	58	24	24	19	1	1	57.6	69.5	7 000	9 300	332/28JR	
	68	19.75	18	14	1.5	1.5	51.7	50.2	6 200	8 200	303/28CR	
	68	19.75	18	16	1.5	1.5	53.5	54.0	6 100	8 200	303/28R	
	68	25.75	24	20	1.5	1.5	66.5	72.9	6 300	8 500	323/28CR	
	68	25.75	24	21	1.5	1.5	69.6	75.6	6 100	8 100	323/28R	
30	55	17	17	13	1	1	38.2	48.0	7 000	9 400	32006JR	
	55	20	20	16	1	1	43.2	55.2	7 000	9 400	33006JR	
	62	17.25	16	13	1	1	42.3	45.1	6 500	8 700	30206CR	
	62	17.25	16	14	1	1	41.5	44.8	6 500	8 700	30206JR	
	62	21.25	20	16	1	1	51.7	59.0	6 600	8 900	32206XR	

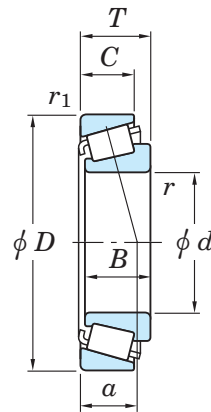
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)		
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max. min.		<i>D</i> _b min. min.		<i>S</i> _a min.	<i>S</i> _b min.		<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁	<i>Y</i> ₀
	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	
	2CE	10.9	29.5	30	42.5	41	44	3	3	0.6	0.6	0.29	2.07	1.14	0.131	
	—	14.9	30.5	30	46.5	41	49	2	4	1	1	0.58	1.04	0.57	0.155	
	3CC	12.9	30.5	31	46.5	44	48	2	3	1	1	0.37	1.60	0.88	0.156	
	—	16.2	30.5	30	46.5	40	50	2	3	1	1	0.55	1.10	0.60	0.200	
	2CD	13.5	30.5	31	46.5	43	48	2	4	1	1	0.36	1.67	0.92	0.188	
	2DE	14.1	30.5	30	46.5	43	49	4	4	1	1	0.35	1.71	0.94	0.225	
	7FB	20.4	33.5	34	53.5	47	58.5	3	5	1.5	1.5	0.83	0.73	0.40	0.269	
	—	16.3	33.5	35	53.5	50	58	3	4	1.5	1.5	0.55	1.10	0.60	0.275	
	2FB	12.9	33.5	34	54	54	57	2	3	1.5	1.5	0.30	2.00	1.10	0.273	
	—	18.9	33.5	33	53.5	46	58	3	6	1.5	1.5	0.55	1.10	0.60	0.390	
	2FD	16.6	33.5	33	53.5	52	57	3	5	1.5	1.5	0.30	2.00	1.10	0.386	
	4CC	12.7	33.5	33	46.5	45	49	3	4	1	1	0.43	1.39	0.77	0.150	
	—	16.0	33.5	34	52.5	47	55	2	4	1	1	0.55	1.10	0.60	0.205	
	—	13.4	33.5	35	52.5	49	54	2	3	1	1	0.37	1.60	0.88	0.209	
	—	17.0	33.5	33	52.5	45	55	3	4	1	1	0.55	1.10	0.60	0.255	
	—	15.0	33.5	35	52.5	49	54.5	2	4	1	1	0.37	1.60	0.88	0.244	
	2DE	15.4	33.5	34	52.5	49	55	4	5	1	1	0.34	1.77	0.97	0.302	
	—	17.8	36.5	37	59.5	55	64	3	4.5	1.5	1.5	0.55	1.10	0.60	0.332	
	—	14.9	36.5	38	59.5	58	63	2	3.5	1.5	1.5	0.32	1.88	1.04	0.345	
	—	20.5	36.5	35	59.5	51	64	3	5.5	1.5	1.5	0.55	1.10	0.60	0.480	
	—	17.6	36.5	38	59.5	57	63	3	4.5	1.5	1.5	0.32	1.88	1.04	0.469	
		4CC	13.6	35.5	35	49.5	47	52	3	4	1	1	0.43	1.39	0.77	0.177
		2CE	13.0	35.5	36	49.5	48	52	3	4	1	1	0.29	2.06	1.13	0.203
—		16.5	35.5	36	56.5	51	59	2	4	1	1	0.55	1.10	0.60	0.230	
3DB		14.1	35.5	37	56.5	53	57	2	3	1	1	0.37	1.60	0.88	0.236	
—		18.0	35.5	36	56.5	49	59	3	5	1	1	0.55	1.10	0.60	0.300	

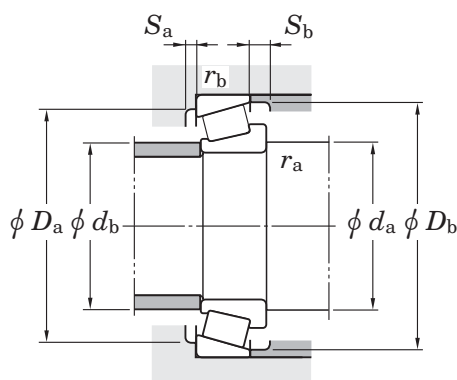
Single-row tapered roller bearings metric series

d (30) ~ (35) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
30	62	21.25	20	17	1	1	50.7	57.9	6 500	8 700	32206JR	
	62	25	25	19.5	1	1	66.4	79.4	6 500	8 700	33206JR	
	72	20.75	19	14	1.5	1.5	50.9	54.9	4 900	6 800	30306DJR	
	72	20.75	19	16	1.5	1.5	56.9	55.6	5 900	7 900	TRA0607R	
	72	20.75	19	16	1.5	1.5	59.6	60.1	5 800	7 700	30306JR	
	72	28.75	27	23	1.5	1.5	80.0	93.8	6 000	8 000	32306CR	
	72	28.75	27	23	1.5	1.5	82.2	91.6	5 900	7 900	32306JR	
32	58	17	17	13	1	1	39.2	50.6	6 700	8 900	320/32JR	
	65	18.25	17	14	1	1	47.5	51.5	6 200	8 300	302/32CR	
	65	18.25	17	15	1	1	48.0	51.4	6 200	8 200	302/32R	
	65	22.25	21	17	1	1	55.8	65.1	6 300	8 400	322/32CR	
	65	22.25	21	18	1	1	51.6	57.7	6 200	8 200	322/32	
	65	26	26	20.5	1	1	71.8	86.9	6 200	8 300	332/32JR	
	75	21.75	20	16	1.5	1.5	63.4	66.3	5 600	7 400	303/32CR	
	75	21.75	20	18	1.5	1.5	64.4	65.6	5 500	7 300	303/32R	
	75	29.75	28	23	1.5	1.5	75.1	87.1	5 600	7 400	TR0608A	
	75	29.75	28	25	1.5	1.5	89.6	101	5 600	7 400	323/32R	
35	55	14	14	11.5	0.6	0.6	26.1	36.5	6 600	8 800	32907JR-2	
	62	18	18	14	1	1	45.5	59.4	6 200	8 200	32007JR	
	62	21	20	16	1	1	40.8	53.8	6 200	8 200	33007	
	62	21	21	17	1	1	51.3	68.0	6 200	8 200	33007JR	
	72	18.25	17	15	1.5	1.5	52.9	56.2	5 700	7 600	30207CR	
	72	18.25	17	15	1.5	1.5	55.1	60.9	5 600	7 400	30207JR	
	72	24.25	23	19	1.5	1.5	69.0	86.6	5 700	7 600	32207-1R	
	72	24.25	23	19	1.5	1.5	69.6	82.4	5 600	7 500	32207JR	
	72	28	28	22	1.5	1.5	87.6	107	5 700	7 500	33207JR	
	80	22.75	21	15	2	1.5	63.1	69.1	4 300	6 000	30307DJR	

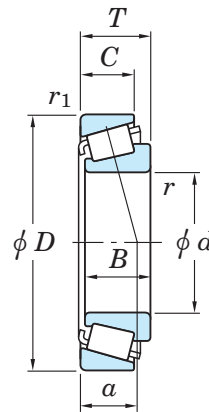
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	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)	
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max. min.		<i>D</i> _b min.		<i>S</i> _a min.	<i>S</i> _b min.		<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁
	3DC	15.9	35.5	37	56.5	52	58	2	4	1	1	0.37	1.60	0.88	0.292
	2DE	16.3	35.5	36	56.5	53	59	5	5.5	1	1	0.34	1.76	0.97	0.359
	7FB	23.7	38.5	40	63.5	55	68	3	6.5	1.5	1.5	0.83	0.73	0.40	0.400
	—	18.6	38.5	39	63.5	58	68	3	4.5	1.5	1.5	0.55	1.10	0.60	0.405
	2FB	15.7	38.5	40	63.5	62	66	3	4.5	1.5	1.5	0.31	1.90	1.05	0.411
	5FD	22.0	38.5	37	63.5	54	68	3	5.5	1.5	1.5	0.55	1.10	0.60	0.610
	2FD	18.9	38.5	39	63.5	59	66	3	5.5	1.5	1.5	0.31	1.90	1.05	0.588
	4CC	14.3	37.5	38	52.5	50	55	3	4	1	1	0.45	1.32	0.73	0.196
	—	17.2	37.5	38	59.5	53	62	3	4	1	1	0.55	1.10	0.60	0.275
	—	14.9	37.5	39	59.5	55	61	3	3	1	1	0.37	1.60	0.88	0.266
	—	18.7	37.5	37	59.5	51	62	3	5	1	1	0.55	1.10	0.60	0.340
	—	16.3	37.5	40	59.5	55	61	2	4	1	1	0.37	1.60	0.88	0.330
	2DE	16.9	37.5	38	59.5	55	62	5	5.5	1	1	0.35	1.73	0.95	0.404
	—	19.7	40.5	42	66.5	60	70	3	5.5	1.5	1.5	0.55	1.10	0.60	0.465
	—	16.0	40.5	43	66.5	64	70	3	3.5	1.5	1.5	0.32	1.88	1.04	0.461
	5FD	23.7	40.5	41	66.5	57	71	3	6.5	1.5	1.5	0.55	1.10	0.60	0.649
	—	19.6	40.5	42	66.5	63	69	3	4.5	1.5	1.5	0.32	1.88	1.04	0.650
	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
	4CC	15.1	40.5	40	56.5	54	59	4	4	1	1	0.45	1.32	0.73	0.231
	—	14.8	40.5	41	56.5	55	59	3	4	1	1	0.33	1.80	0.99	0.250
	2CE	14.2	40.5	41	56.5	55	59	3	4	1	1	0.31	1.97	1.08	0.263
	—	17.9	43.5	43	63.5	59	68	3	3	1.5	1.5	0.55	1.10	0.60	0.350
	3DB	15.3	43.5	44	63.5	62	67	3	3	1.5	1.5	0.37	1.60	0.88	0.344
	—	21.1	43.5	42	63.5	56	68	3	5	1.5	1.5	0.58	1.04	0.57	0.465
	3DC	18.2	43.5	43	63.5	61	67	3	5	1.5	1.5	0.37	1.60	0.88	0.453
	2DE	18.4	43.5	42	63.5	61	68	5	6	1.5	1.5	0.35	1.70	0.93	0.551
	7FB	26.8	45	44	70	66	76.5	3	7.5	2	1.5	0.83	0.73	0.40	0.536

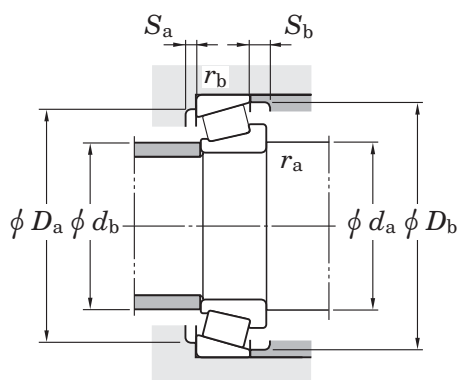
Single-row tapered roller bearings metric series

d (35) ~ (45) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
35	80	22.75	21	18	2	1.5	69.8	77.8	5 200	7 000	30307XR	
	80	22.75	21	18	2	1.5	76.2	78.9	5 200	6 900	30307JR-1	
	80	32.75	31	25	2	1.5	96.9	123	5 200	7 000	TR0708-1R	
	80	32.75	31	25	2	1.5	101	114	5 300	7 000	32307JR	
40	62	15	15	12	0.6	0.6	33.5	48.5	5 900	7 800	32908JR	
	68	19	19	14.5	1	1	53.5	71.4	5 600	7 400	32008JR	
	68	22	22	18	1	1	60.4	84.6	5 500	7 400	33008JR	
	75	26	26	20.5	1.5	1.5	82.2	108	5 200	6 900	33108JR	
	80	19.75	18	15	1.5	1.5	61.4	67.4	5 000	6 700	30208CR	
	80	19.75	18	16	1.5	1.5	62.9	69.2	5 000	6 700	30208JR	
	80	24.75	23	19	1.5	1.5	78.5	93.1	5 000	6 700	32208CR	
	80	24.75	23	19	1.5	1.5	77.7	90.8	5 000	6 600	32208JR	
	80	32	32	25	1.5	1.5	108	139	5 000	6 700	33208JR	
	85	33	32.5	28	2.5	2	114	143	4 800	6 400	T2EE040	
	90	25.25	23	17	2	1.5	80.5	90.2	3 800	5 300	30308DJR	
	90	25.25	23	20	2	1.5	87.3	98.5	4 600	6 100	30308XR	
	90	25.25	23	20	2	1.5	90.6	101	4 500	6 100	30308JR	
	90	35.25	33	26	2	1.5	112	138	4 700	6 200	TR0809AR	
	90	35.25	33	27	2	1.5	116	139	4 600	6 200	32308JR	
45	68	15	15	12	0.6	0.6	34.7	52.4	5 300	7 100	32909JR	
	75	20	20	15.5	1	1	62.8	86.5	5 000	6 600	32009JR	
	75	24	24	19	1	1	69.6	101	5 000	6 700	33009JR	
	80	26	26	20.5	1.5	1.5	87.5	120	4 800	6 400	33109JR	
	85	20.75	19	15	1.5	1.5	69.4	81.5	4 600	6 100	30209XR	
	85	20.75	19	16	1.5	1.5	67.2	77.4	4 600	6 100	30209JR	
	85	24.75	23	19	1.5	1.5	80.7	102	4 600	6 200	32209CR	
	85	24.75	23	19	1.5	1.5	84.2	104	4 600	6 100	32209JR-1	

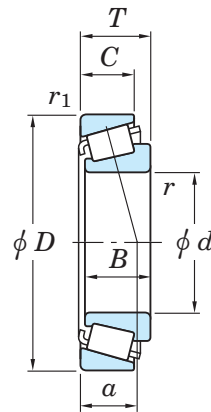
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)	
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max. min.		<i>D</i> _b min.		<i>S</i> _a min.	<i>S</i> _b min.		<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁
	—	20.5	45	45	70	63	74	3	4.5	2	1.5	0.55	1.10	0.60	0.560
	2FB	16.9	45	45	70	70	74	3	4.5	2	1.5	0.31	1.90	1.05	0.527
	—	23.8	45	44	70	60	75	3	7.5	2	1.5	0.47	1.27	0.70	0.830
	2FE	20.6	45	44	70	66	74	3	7.5	2	1.5	0.31	1.90	1.05	0.776
	2BC	11.9	44.5	45	57.5	55	59	3	3	0.6	0.6	0.29	2.07	1.14	0.164
	3CD	15.1	45.5	46	62.5	60	65	4	4.5	1	1	0.38	1.58	0.87	0.282
	2BE	14.7	45.5	46	62.5	60	65	3	4	1	1	0.28	2.12	1.17	0.326
	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
	—	20.2	48.5	49	71.5	66	76	3	4.5	1.5	1.5	0.55	1.10	0.60	0.445
	3DB	17.0	48.5	49	71.5	69	75	3	3.5	1.5	1.5	0.37	1.60	0.88	0.434
	5DC	22.0	48.5	48	71.5	64	76	3	5.5	1.5	1.5	0.55	1.10	0.60	0.570
	3DC	19.4	48.5	48	71.5	68	75	3	5.5	1.5	1.5	0.37	1.60	0.88	0.554
	2DE	20.7	48.5	47	71.5	67	76	5	7	1.5	1.5	0.36	1.68	0.92	0.758
	2EE	21.9	52	48	75	70	80	5	5	2	2	0.34	1.74	0.96	0.900
	7FB	29.9	50	51	80	71	86.5	3	8	2	1.5	0.83	0.73	0.40	0.757
	—	23.8	50	53	80	72	84	3	5	2	1.5	0.55	1.10	0.60	0.780
	2FB	19.9	50	52	80	77	82	3	5	2	1.5	0.35	1.74	0.96	0.757
	—	27.5	50	49	80	67	85	3	9	2	1.5	0.55	1.10	0.60	1.10
	2FD	24.3	50	50	80	73	82	3	8	2	1.5	0.35	1.74	0.96	1.06
		2BC	12.5	49.5	50	63.5	61	64	3	3	0.6	0.6	0.32	1.88	1.04
3CC		16.5	50.5	51	69.5	67	72	4	4.5	1	1	0.39	1.53	0.84	0.354
2CE		16.4	50.5	51	69.5	67	71	4	5	1	1	0.29	2.04	1.12	0.416
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
—		21.1	53.5	54	76.5	71	80	4	5.5	1.5	1.5	0.55	1.10	0.60	0.500
3DB		18.9	53.5	54	76.5	74	80	3	4.5	1.5	1.5	0.40	1.48	0.81	0.502
—		23.0	53.5	53	76.5	69	81	3	5.5	1.5	1.5	0.55	1.10	0.60	0.625
3DC		20.3	53.5	53	76.5	73	81	3	5.5	1.5	1.5	0.40	1.48	0.81	0.597

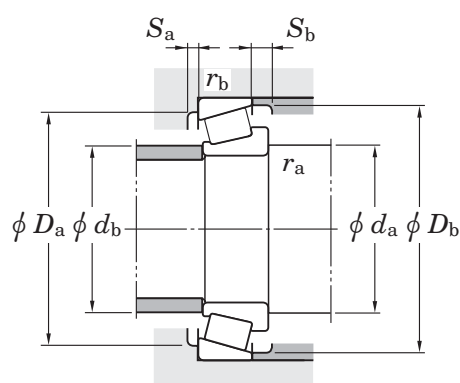
Single-row tapered roller bearings metric series

d (45) ~ (55) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
45	85	32	32	25	1.5	1.5	112	149	4 600	6 200	33209JR	
	95	29	26.5	20	2.5	2.5	94.1	118	3 600	5 100	T7FC045	
	95	36	35	30	2.5	2.5	140	177	4 300	5 700	T2ED045	
	100	27.25	25	18	2	1.5	95.1	107	3 400	4 700	30309DJR	
	100	27.25	25	20	2	1.5	109	119	4 100	5 500	30309CR	
	100	27.25	25	22	2	1.5	113	128	4 100	5 400	30309JR	
	100	38.25	36	29	2	1.5	145	182	4 200	5 600	32309CR	
	100	38.25	36	30	2	1.5	146	180	4 100	5 500	32309JR	
50	72	15	15	12	0.6	0.6	35.9	56.3	4 900	6 600	32910JR	
	80	20	20	15.5	1	1	65.7	94.5	4 600	6 100	32010JR	
	80	24	24	19	1	1	73.0	110	4 600	6 100	33010JR	
	85	26	26	20	1.5	1.5	89.4	127	4 400	5 900	33110JR	
	90	21.75	20	16	1.5	1.5	77.2	95.8	4 300	5 700	30210CR	
	90	21.75	20	17	1.5	1.5	76.5	91.7	4 300	5 700	30210JR	
	90	24.75	23	19	1.5	1.5	84.5	113	4 300	5 700	32210CR	
	90	24.75	23	19	1.5	1.5	85.0	105	4 300	5 700	32210JR	
	90	32	32	24.5	1.5	1.5	119	167	4 300	5 700	33210JR	
	100	36	35	30	2.5	2.5	157	196	4 100	5 400	T2ED050	
	105	32	29	22	3	3	113	140	3 300	4 600	T7FC050	
	110	29.25	27	19	2.5	2	115	133	3 100	4 300	30310DJR	
	110	29.25	27	20	2.5	2	124	143	3 700	4 900	30310CR	
	110	29.25	27	23	2.5	2	137	152	3 700	4 900	30310JR	
	110	42.25	40	33	2.5	2	171	234	3 800	5 100	32310CR	
	110	42.25	40	33	2.5	2	176	220	3 700	5 000	32310JR	
55	80	17	17	14	1	1	44.6	73.3	4 400	5 900	32911JR	
	90	23	23	17.5	1.5	1.5	84.6	121	4 100	5 500	32011JR	
	90	27	27	21	1.5	1.5	96.5	149	4 100	5 400	33011JR	

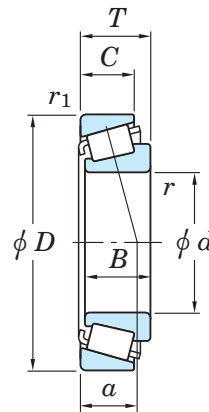
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)		
			<i>d</i> _a	<i>d</i> _b	<i>D</i> _a		<i>D</i> _b		<i>S</i> _a	<i>S</i> _b		<i>r</i> _a	<i>r</i> _b		<i>Y</i> ₁	<i>Y</i> ₀
			min.	max.	max.	min.	min.	min.	min.	max.		max.				
	3DE	21.8	53.5	52	76.5	72	81	5	7	1.5	1.5	0.39	1.56	0.86	0.818	
	7FC	32.6	57	54	83	71	91	3	9	2	2	0.87	0.69	0.38	0.943	
	2ED	23.8	57	55	83	80	89	6	6	2	2	0.32	1.86	1.02	1.20	
	7FB	32.9	55	56	90	79	96	3	9	2	1.5	0.83	0.73	0.40	0.973	
	—	25.7	55	57	90	81	94	4	7	2	1.5	0.55	1.10	0.60	1.00	
	2FB	21.3	55	59	90	86	93	3	5	2	1.5	0.35	1.74	0.96	1.01	
	—	30.3	55	56	90	76	95	4	9	2	1.5	0.55	1.10	0.60	1.45	
	2FD	26.8	55	56	90	82	93	3	8	2	1.5	0.35	1.74	0.96	1.43	
	2BC	13.7	54.5	55	67.5	65	69	3	3	0.6	0.6	0.34	1.76	0.97	0.195	
	3CC	17.7	55.5	56	74.5	72	77	4	4.5	1	1	0.42	1.42	0.78	0.389	
	2CE	17.4	55.5	56	74.5	72	76	4	5	1	1	0.32	1.90	1.04	0.451	
	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	
	—	22.7	58.5	58	81.5	76	86	4	5.5	1.5	1.5	0.55	1.10	0.60	0.590	
	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	
	—	24.0	58.5	58	81.5	74	86	3	5.5	1.5	1.5	0.55	1.10	0.60	0.675	
	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	
	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	
	2ED	24.5	62	58	88	84	94	6	6	2	2	0.34	1.75	0.96	1.28	
	7FC	35.9	64	59	91	78	100	4	10	2.5	2.5	0.87	0.69	0.38	1.25	
	7FB	35.0	62	62	98	87	105	3	10	2	2	0.83	0.73	0.40	1.25	
	—	27.5	62	64	98	90	103	4	9	2	2	0.55	1.10	0.60	1.25	
	2FB	22.9	62	65	98	95	102	3	6	2	2	0.35	1.74	0.96	1.32	
	5FD	33.4	62	61	98	81	103	4	9	2	2	0.55	1.10	0.60	2.00	
	2FD	29.4	62	62	98	90	102	3	9	2	2	0.35	1.74	0.96	1.89	
	2BC	14.5	61	61	74	72	76	3	3	1	1	0.31	1.94	1.07	0.285	
	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	
	2CE	19.3	63.5	63	81.5	81	86	5	6	1.5	1.5	0.31	1.92	1.06	0.672	

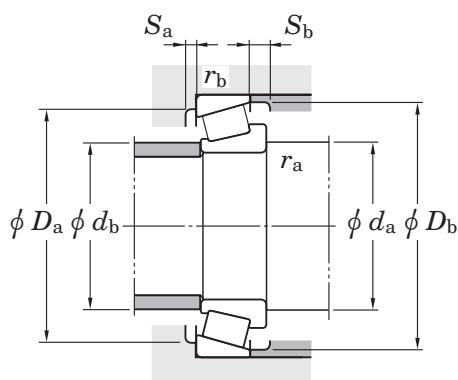
Single-row tapered roller bearings metric series

d (55) ~ (60) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
55	95	30	30	23	1.5	1.5	116	161	4 000	5 300	33111JR	
	100	22.75	21	17	2	1.5	89.6	108	3 900	5 200	30211CR	
	100	22.75	21	18	2	1.5	94.6	113	3 900	5 200	30211JR	
	100	26.75	25	21	2	1.5	107	135	3 900	5 200	32211CR	
	100	26.75	25	21	2	1.5	107	133	3 900	5 200	32211JR-1	
	100	35	35	27	2	1.5	142	189	3 900	5 200	33211JR	
	115	34	31	23.5	3	3	129	164	3 000	4 200	T7FC055	
	120	31.5	29	21	2.5	2	129	148	2 900	4 000	30311DJR	
	120	31.5	29	22	2.5	2	144	161	3 400	4 500	30311CR	
	120	31.5	29	25	2.5	2	149	170	3 300	4 500	30311JR	
	120	45.5	43	35	2.5	2	184	247	3 400	4 600	32311C	
	120	45.5	43	35	2.5	2	171	203	3 400	4 500	32311J	
	120	45.5	43	35	2.5	2	200	250	3 400	4 500	32311JR	
60	85	17	17	14	1	1	46.2	78.2	4 100	5 500	32912JR	
	95	23	23	17.5	1.5	1.5	86.1	127	3 900	5 200	32012JR	
	95	27	27	21	1.5	1.5	101	162	3 900	5 200	33012JR	
	100	30	30	23	1.5	1.5	118	170	3 700	5 000	33112JR	
	110	23.75	22	17	2	1.5	102	123	3 500	4 700	30212CR	
	110	23.75	22	19	2	1.5	106	127	3 500	4 700	30212JR	
	110	29.75	28	22	2	1.5	128	164	3 600	4 700	32212CR	
	110	29.75	28	24	2	1.5	132	167	3 500	4 700	32212JR	
	110	38	38	29	2	1.5	174	239	3 600	4 700	33212JR	
	115	39	38	31	4	2.5	158	227	3 400	4 600	T5ED060	
	115	40	39	33	2.5	2.5	183	242	3 400	4 600	T2EE060	
	125	37	33.5	26	3	3	153	194	2 800	3 900	T7FC060	
	130	33.5	31	22	3	2.5	153	179	2 600	3 700	30312DJR	
	130	33.5	31	23	3	2.5	169	196	3 100	4 200	30312CR	

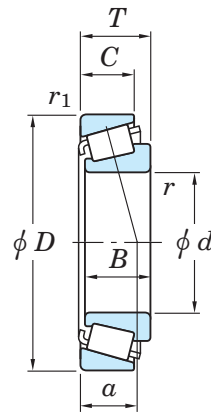
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)		
			<i>d_a</i>	<i>d_b</i>	<i>D_a</i>		<i>D_b</i>		<i>S_a</i>	<i>S_b</i>		<i>r_a</i>	<i>r_b</i>		<i>Y₁</i>	<i>Y₀</i>
			min.	max.	max.	min.	min.	min.	min.	max.		max.				
	3CE	22.5	63.5	62	86.5	83	91	5	7	1.5	1.5	0.37	1.60	0.88	0.868	
	—	24.3	65	63	90	84	95	4	5.5	2	1.5	0.55	1.10	0.60	0.750	
	3DB	20.7	65	64	90	88	94	4	4.5	2	1.5	0.40	1.48	0.81	0.732	
	—	25.9	65	64	90	83	96	4	5.5	2	1.5	0.55	1.10	0.60	0.875	
	3DC	23.0	65	63	90	87	95	4	5.5	2	1.5	0.40	1.48	0.81	0.863	
	3DE	25.3	65	62	90	85	96	6	8	2	1.5	0.40	1.50	0.83	1.18	
	7FC	38.6	69	65	101	86	109	4	10.5	2.5	2.5	0.87	0.69	0.38	1.59	
	7FB	38.4	67	68	108	94	113	4	10.5	2	2	0.83	0.73	0.40	1.59	
	—	29.8	67	70	108	97	112	4.5	9.5	2	2	0.55	1.10	0.60	1.58	
	2FB	25.5	67	71	108	104	111	4	6.5	2	2	0.35	1.74	0.96	1.65	
	5FD	35.9	67	67	108	90	113	4	10	2	2	0.55	1.10	0.60	2.45	
	2FD	32.4	67	68	108	99	111	4	10.5	2	2	0.35	1.74	0.96	2.24	
	2FD	32.4	67	68	108	99	111	4	10.5	2	2	0.35	1.74	0.96	2.38	
		2BC	15.6	65.5	66	79.5	77	81	3	3	1	1	0.33	1.81	1.00	0.306
4CC		21.0	68.5	67	86.5	85	91	4	5.5	1.5	1.5	0.43	1.39	0.77	0.621	
2CE		20.1	68.5	67	86.5	85	90	5	6	1.5	1.5	0.33	1.83	1.01	0.719	
3CE		23.7	68.5	67	91.5	88	96	5	7	1.5	1.5	0.40	1.51	0.83	0.923	
—		26.2	70	70	100	93	104	4	6.5	2	1.5	0.55	1.10	0.60	0.930	
3EB		21.9	70	70	100	96	103	4	4.5	2	1.5	0.40	1.48	0.81	0.945	
—		28.6	70	68	100	91	105	4	7.5	2	1.5	0.55	1.10	0.60	1.20	
3EC		25.1	70	69	100	95	104	4	5.5	2	1.5	0.40	1.48	0.81	1.19	
3EE		27.2	70	69	100	93	105	6	9	2	1.5	0.40	1.48	0.82	1.57	
5ED		32.4	78	70	103	92	110	5	8	3	2	0.53	1.13	0.62	1.81	
2EE		27.6	72	70	103	98	109	6	7	2	2	0.33	1.80	0.99	1.80	
7FC		40.8	74	71	111	94	119	4	11	2.5	2.5	0.82	0.73	0.40	2.03	
7FB		40.8	74	73	118	103	124	4	11.5	2.5	2	0.83	0.73	0.40	2.01	
—		31.9	74	75	118	105	121	5	10.5	2.5	2	0.55	1.10	0.60	1.99	

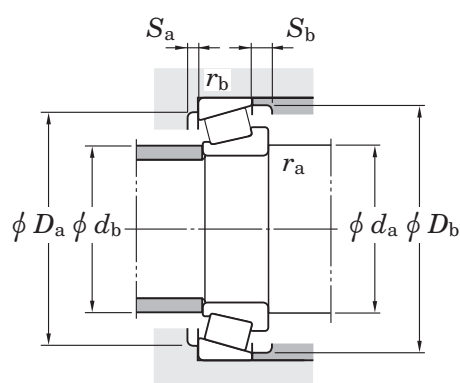
Single-row tapered roller bearings metric series

d (60) ~ (70) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
60	130	33.5	31	26	3	2.5	173	201	3 100	4 100	30312JR	
	130	48.5	46	37	3	2.5	229	310	3 200	4 300	32312CR	
	130	48.5	46	37	3	2.5	221	275	3 100	4 200	32312J	
	130	48.5	46	37	3	2.5	244	315	3 100	4 200	32312JR	
65	90	17	17	14	1	1	47.4	83.1	3 900	5 200	32913JR	
	100	23	23	17.5	1.5	1.5	90.0	137	3 600	4 800	32013JR	
	100	27	27	21	1.5	1.5	103	169	3 600	4 800	33013JR	
	110	34	34	26.5	1.5	1.5	152	223	3 400	4 600	33113JR	
	120	24.75	23	18	2	1.5	116	139	3 200	4 300	30213CR	
	120	24.75	23	20	2	1.5	128	156	3 200	4 300	30213JR	
	120	32.75	31	24	2	1.5	151	198	3 200	4 300	32213CR	
	120	32.75	31	27	2	1.5	157	203	3 200	4 300	32213JR	
	120	39	38	31	4	2.5	151	232	3 200	4 300	T5ED065	
	120	41	41	32	2	1.5	200	277	3 200	4 300	33213JR	
	130	37	33.5	26	3	3	148	211	2 600	3 600	T7FC065	
	140	36	33	23	3	2.5	176	209	2 400	3 400	30313DJR	
	140	36	33	25	3	2.5	193	227	2 900	3 900	30313CR	
	140	36	33	28	3	2.5	204	239	2 800	3 800	30313JR	
	140	51	48	39	3	2.5	258	361	2 900	3 900	32313CR	
	140	51	48	39	3	2.5	250	312	2 900	3 900	32313J	
	140	51	48	39	3	2.5	276	357	2 900	3 900	32313JR	
70	100	20	20	16	1	1	71.0	115	3 500	4 700	32914JR	
	110	25	25	19	1.5	1.5	108	163	3 300	4 400	32014JR	
	110	31	31	25.5	1.5	1.5	134	208	3 300	4 400	33014JR	
	120	37	37	29	2	1.5	181	266	3 100	4 200	33114JR	
	125	26.25	24	19	2	1.5	126	158	3 000	4 000	30214CR	
	125	26.25	24	21	2	1.5	138	173	3 100	4 100	30214JR	

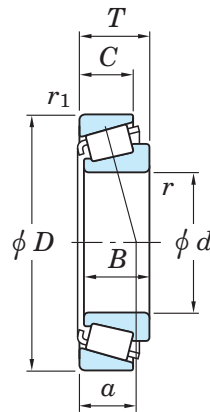
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Constant <i>e</i>	Axial load factors		(Refer.) Mass (kg)		
			<i>d_a</i>	<i>d_b</i>	<i>D_a</i>		<i>D_b</i>		<i>S_a</i>	<i>S_b</i>		<i>r_a</i>	<i>r_b</i>		<i>Y₁</i>	<i>Y₀</i>
			min.	max.	max.	min.	min.	min.	min.	max.		max.				
	2FB	26.9	74	77	118	112	120	4	7.5	2.5	2	0.35	1.74	0.96	2.08	
	5FD	38.3	74	73	118	98	122	5	11	2.5	2	0.55	1.10	0.60	3.15	
	2FD	32.3	74	74	118	107	120	4	11.5	2.5	2	0.35	1.74	0.96	2.87	
	2FD	32.3	74	74	118	107	120	4	11.5	2.5	2	0.35	1.74	0.96	2.99	
	2BC	16.8	70.5	70	84.5	81	86	3	3	1	1	0.35	1.70	0.93	0.327	
	4CC	22.5	73.5	72	91.5	90	97	4	5.5	1.5	1.5	0.46	1.31	0.72	0.664	
	2CE	21.1	73.5	72	91.5	89	96	5	6	1.5	1.5	0.35	1.72	0.95	0.762	
	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	
	—	28.1	75	77	110	102	114	4	6.5	2	1.5	0.55	1.10	0.60	1.15	
	3EB	24.2	75	77	110	106	113	4	4.5	2	1.5	0.40	1.48	0.81	1.18	
	—	31.3	75	75	110	99	114	4	8.5	2	1.5	0.55	1.10	0.60	1.55	
	3EC	26.6	75	76	110	104	115	4	5.5	2	1.5	0.40	1.48	0.81	1.58	
	5ED	34.1	83	75	108	96	115	5	8	3	2	0.56	1.07	0.59	1.93	
	3EE	30.0	75	74	110	102	115	7	9	2	1.5	0.39	1.54	0.85	2.02	
	7FC	44.4	79	78	116	98	124	4	11	2.5	2.5	0.87	0.69	0.38	2.17	
	7GB	44.3	79	79	128	111	133	4	13	2.5	2	0.83	0.73	0.40	2.44	
	—	34.3	79	81	128	113	130	5	11	2.5	2	0.55	1.10	0.60	2.44	
	2GB	29.3	79	83	128	122	130	4	8	2.5	2	0.35	1.74	0.96	2.56	
	5GD	40.9	79	79	128	106	131	5	12	2.5	2	0.55	1.10	0.60	3.85	
	2GD	34.7	79	80	128	117	130	4	12	2.5	2	0.35	1.74	0.96	3.49	
2GD	34.7	79	80	128	117	130	4	12	2.5	2	0.35	1.74	0.96	3.64		
	2BC	17.8	75.5	77	94.5	91	96	4	4	1	1	0.32	1.90	1.05	0.496	
	4CC	23.6	78.5	78	101.5	98	105	5	6	1.5	1.5	0.43	1.38	0.76	0.884	
	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	
	3DE	28.0	80	79	110	104	115	6	8	2	1.5	0.38	1.58	0.87	1.71	
	—	29.9	80	82	116.5	107	119	4	7	2	1.5	0.55	1.10	0.60	1.30	
	3EB	25.9	80	81	116.5	110	118	4	5	2	1.5	0.42	1.43	0.79	1.32	

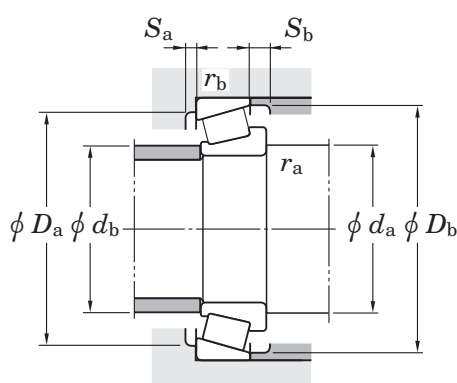
Single-row tapered roller bearings metric series

d (70) ~ (75) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
70	125	33.25	31	24	2	1.5	157	212	3 100	4 100	32214CR	
	125	33.25	31	27	2	1.5	169	225	3 100	4 100	32214JR	
	125	41	41	32	2	1.5	206	294	3 100	4 100	33214JR	
	130	43	42	35	3	2.5	233	319	3 000	4 000	T2ED070	
	140	39	35.5	27	3	3	177	242	2 400	3 400	T7FC070	
	140	52	51	43	5	3	264	382	2 900	3 800	T4FE070	
	150	38	35	25	3	2.5	197	235	2 300	3 200	30314DJR	
	150	38	35	30	3	2.5	224	256	2 700	3 600	30314CR	
	150	38	35	30	3	2.5	230	273	2 600	3 500	30314JR	
	150	54	51	42	3	2.5	257	315	2 700	3 600	32314	
	150	54	51	42	3	2.5	297	391	2 700	3 600	32314C	
	150	54	51	42	3	2.5	317	414	2 700	3 600	32314JR	
75	105	20	20	16	1	1	73.6	123	3 300	4 400	32915JR	
	115	25	25	19	1.5	1.5	110	169	3 100	4 200	32015JR	
	115	31	31	25.5	1.5	1.5	141	225	3 200	4 200	33015JR	
	125	37	37	29	2	1.5	186	280	3 000	4 000	33115JR	
	130	27.25	25	20	2	1.5	136	178	2 900	3 800	30215CR	
	130	27.25	25	22	2	1.5	142	181	2 900	3 900	30215JR	
	130	33.25	31	24	2	1.5	163	225	2 900	3 900	32215CR	
	130	33.25	31	27	2	1.5	174	234	2 900	3 900	32215JR	
	130	41	41	31	2	1.5	212	310	2 900	3 900	33215JR	
	150	42	38	29	3	3	191	270	2 200	3 100	T7FC075	
	160	40	37	26	3	2.5	213	254	2 100	2 900	30315DJR	
	160	40	37	26	3	2.5	222	266	2 100	2 900	30315DR	
	160	40	37	31	3	2.5	248	296	2 500	3 400	30315CR	
	160	40	37	31	3	2.5	260	311	2 500	3 300	30315JR	
	160	40	37	31	3	2.5	251	298	2 500	3 300	30315R	

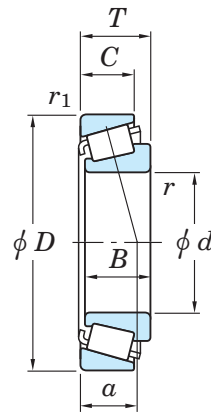
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Con-stant <i>e</i>	Axial load factors		(Refer.) Mass (kg)	
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max.	<i>D</i> _b min.	<i>S</i> _a min.	<i>S</i> _b min.	<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁	<i>Y</i> ₀		
	—	32.6	80	80	116.5	104	120	4	9.5	2	1.5	0.55	1.10	0.60	1.65
	3EC	29.2	80	80	116.5	108	119	4	6	2	1.5	0.42	1.43	0.79	1.71
	3EE	31.2	80	79	116.5	107	120	7	9	2	1.5	0.41	1.47	0.81	2.16
	2ED	30.2	84	81	118	111	123	1	1	2.5	2	0.33	1.80	0.99	2.48
	7FC	46.5	84	82	126	106	133	5	12	2.5	2.5	0.87	0.69	0.38	2.64
	4FE	37.7	92	82	126	111	133	7	9	4	2.5	0.45	1.34	0.74	3.69
	7GB	47.1	84	84	138	118	142	4	13	2.5	2	0.83	0.73	0.40	2.97
	—	37.0	84	87	138	123	141	6	8	2.5	2	0.55	1.10	0.60	3.10
	2GB	30.5	84	89	138	130	140	4	8	2.5	2	0.35	1.74	0.96	3.08
	—	37.0	84	86	138	125	140	4	12	2.5	2	0.35	1.73	0.95	4.11
	5GD	44.4	84	84	138	115	142	5	12	2.5	2	0.55	1.10	0.60	4.50
	2GD	37.4	84	86	138	125	140	4	12	2.5	2	0.35	1.74	0.96	4.50
	2BC	18.9	80.5	81	99.5	96	101	4	4	1	1	0.33	1.80	0.99	0.526
	4CC	25.1	83.5	83	106.5	103	110	5	6	1.5	1.5	0.46	1.31	0.72	0.930
	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
	3DE	29.3	85	84	116.5	109	120	6	8	2	1.5	0.40	1.51	0.83	1.84
	—	31.0	85	87	121.5	111	124	5	7	2	1.5	0.55	1.10	0.60	1.40
	4DB	27.6	85	86	121.5	115	124	4	5	2	1.5	0.44	1.38	0.76	1.42
	—	33.7	85	85	121.5	109	125	4	9	2	1.5	0.55	1.10	0.60	1.75
	4DC	30.2	85	85	121.5	114	125	4	6	2	1.5	0.44	1.38	0.76	1.77
	3EE	32.5	85	83	121.5	111	125	7	10	2	1.5	0.43	1.40	0.77	2.26
	7FC	50.6	89	89	136	114	143	5	13	2.5	2.5	0.87	0.69	0.38	3.24
	7GB	49.9	89	91	148	127	151	6	14	2.5	2	0.83	0.73	0.40	3.45
	—	48.8	89	91	148	127	151	6	14	2.5	2	0.81	0.74	0.41	3.48
	—	39.2	89	94	148	130	150	6	9	2.5	2	0.55	1.10	0.60	3.80
	2GB	32.5	89	95	148	139	149	4	9	2.5	2	0.35	1.74	0.96	3.65
	—	31.9	89	95	148	139	149	4	9	2.5	2	0.35	1.73	0.95	3.52

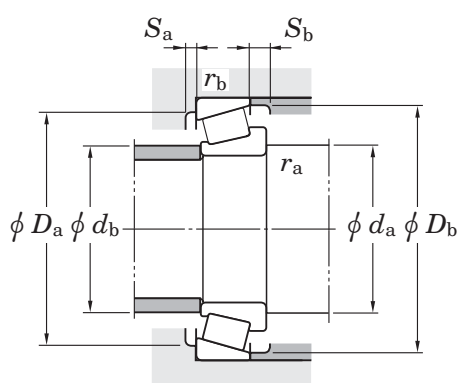
Single-row tapered roller bearings metric series

d (75) ~ (85) mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No. ¹⁾	
d	D	T	B	C	r min.	r_1 min.	C_r	C_{0r}	Grease lub.	Oil lub.		
75	160	58	55	43	3	2.5	357	474	2 500	3 400	32315CR	
	160	58	55	45	3	2.5	363	481	2 500	3 300	32315JR	
	160	58	55	45	3	2.5	340	444	2 500	3 300	32315R	
80	110	20	20	16	1	1	76.1	131	3 100	4 200	32916JR	
	125	29	29	22	1.5	1.5	147	225	2 900	3 900	32016JR	
	125	36	36	29.5	1.5	1.5	173	288	2 900	3 900	33016JR	
	130	37	37	29	2	1.5	191	294	2 800	3 800	33116JR	
	140	28.25	26	22	2.5	2	161	202	2 700	3 600	30216JR	
	140	35.25	33	28	2.5	2	203	271	2 700	3 600	32216JR	
	140	46	46	35	2.5	2	250	371	2 700	3 600	33216JR	
	145	46	45	38	3	2.5	266	381	2 600	3 500	T2ED080	
	170	42.5	39	27	3	2.5	236	282	2 000	2 800	30316DJR	
	170	42.5	39	33	3	2.5	294	355	2 300	3 100	30316JR	
	170	42.5	39	33	3	2.5	277	330	2 300	3 100	30316R	
	170	61.5	58	48	3	2.5	347	440	2 300	3 100	32316J	
	170	61.5	58	48	3	2.5	383	503	2 300	3 100	32316JR	
85	120	23	23	18	1.5	1.5	97.1	165	2 900	3 900	32917JR	
	130	29	29	22	1.5	1.5	150	234	2 800	3 700	32017JR	
	130	36	36	29.5	1.5	1.5	177	300	2 800	3 700	33017JR	
	140	41	41	32	2.5	2	224	346	2 600	3 500	33117JR	
	150	30.5	28	24	2.5	2	182	231	2 500	3 400	30217JR	
	150	38.5	36	30	2.5	2	232	315	2 500	3 400	32217JR	
	150	49	49	37	2.5	2	294	439	2 500	3 400	33217JR	
	180	44.5	41	28	4	3	231	265	1 900	2 600	30317D	
	180	44.5	41	28	4	3	263	317	1 900	2 600	30317DJR	
	180	44.5	41	34	4	3	316	384	2 200	2 900	30317JR	
	180	44.5	41	34	4	3	305	367	2 200	2 900	30317R	

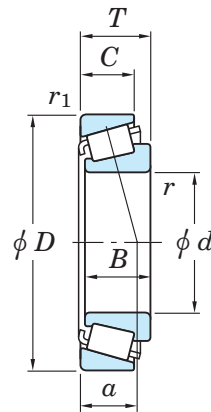
[Note] 1) Please consult with JTEKT when using the bearings identified by suffix C. They are medium-tapered types especially designed for special purposes.



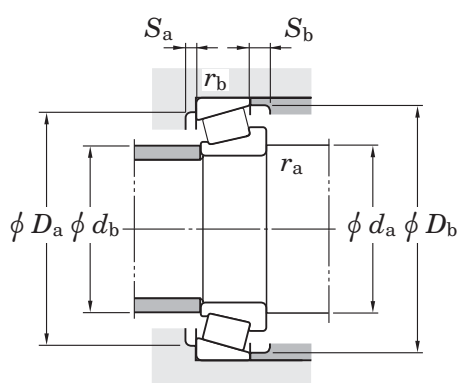
	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Con-stant <i>e</i>	Axial load factors		(Refer.) Mass (kg)		
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max.	<i>D</i> _a min.	<i>D</i> _b min.	<i>S</i> _a min.	<i>S</i> _b min.	<i>r</i> _a max.		<i>r</i> _b max.	<i>Y</i> ₁		<i>Y</i> ₀	
	—	46.6	89	90	148	125	154	6	15	2.5	2	0.55	1.10	0.60	5.50	
	2GD	40.0	89	91	148	133	149	4	13	2.5	2	0.35	1.74	0.96	5.41	
	—	39.5	89	91	148	133	149	4	13	2.5	2	0.35	1.73	0.95	5.30	
	2BC	20.1	85.5	86	104.5	101	106	4	4	1	1	0.35	1.71	0.94	0.556	
	3CC	26.7	88.5	89	116.5	112	120	6	7	1.5	1.5	0.42	1.42	0.78	1.32	
	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	
	3DE	30.5	90	89	121.5	114	126	6	8	2	1.5	0.42	1.44	0.79	1.93	
	3EB	28.6	92	91	130	124	132	4	6	2	2	0.42	1.43	0.79	1.72	
	3EC	31.7	92	90	130	122	134	4	7	2	2	0.42	1.43	0.79	2.17	
	3EE	35.7	92	89	130	119	135	7	11	2	2	0.43	1.41	0.78	2.99	
	2ED	32.7	94	92	133	125	137	7	8	2.5	2	0.32	1.88	1.03	3.20	
	7GB	53.5	94	97	158	134	159	6	15.5	2.5	2	0.83	0.73	0.40	4.12	
	2GB	34.8	94	102	158	148	159	4	9.5	2.5	2	0.35	1.74	0.96	4.46	
	—	33.9	94	102	158	148	159	4	9.5	2.5	2	0.35	1.73	0.95	4.26	
	2GD	43.5	94	98	158	142	159	4	13.5	2.5	2	0.35	1.74	0.96	6.04	
	2GD	43.5	94	98	158	142	159	4	13.5	2.5	2	0.35	1.74	0.96	6.31	
		2BC	21.2	93.5	93	111.5	109	115	5	5	1.5	1.5	0.33	1.83	1.01	0.794
		4CC	28.0	93.5	94	121.5	117	125	6	7	1.5	1.5	0.44	1.36	0.75	1.38
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	
3DE		33.2	97	95	130	122	135	7	9	2	2	0.41	1.48	0.81	2.43	
3EB		30.4	97	97	140	132	141	5	6.5	2	2	0.42	1.43	0.79	2.17	
3EC		34.2	97	96	140	130	142	5	8.5	2	2	0.42	1.43	0.79	2.80	
3EE		37.1	97	95	140	128	144	7	12	2	2	0.42	1.43	0.79	3.63	
—		56.0	103	103	166	143	169	6	16.5	3	2.5	0.81	0.74	0.41	4.54	
7GB		56.3	103	103	166	143	169	6	16.5	3	2.5	0.83	0.73	0.40	4.81	
2GB		36.0	103	107	166	156	167	5	10.5	3	2.5	0.35	1.74	0.96	5.15	
—		35.8	103	107	166	156	167	5	10.5	3	2.5	0.35	1.73	0.95	4.97	

Single-row tapered roller bearings metric series

d (85) ~ 95 mm



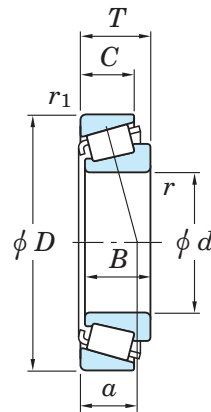
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	
d	D	T	B	C	$r_{\min.}$	$r_{1\min.}$	C_r	C_{0r}	Grease lub.	Oil lub.		
85	180	63.5	60	49	4	3	439	587	2 200	3 000	32317JR	
90	125	23	23	18	1.5	1.5	101	175	2 800	3 700	32918JR	
	140	32	32	24	2	1.5	178	276	2 600	3 500	32018JR	
	140	39	39	32.5	2	1.5	221	367	2 600	3 400	33018JR	
	150	45	45	35	2.5	2	258	413	2 500	3 300	33118JR	
	155	46	46	38	3	3	273	405	2 400	3 200	T2ED090	
	160	32.5	30	26	2.5	2	204	261	2 400	3 200	30218JR	
	160	42.5	40	34	2.5	2	263	362	2 400	3 200	32218JR	
	160	55	55	42	2.5	2	343	527	2 400	3 200	33218JR	
	190	46.5	43	30	4	3	288	350	1 700	2 400	30318DJR	
	190	46.5	43	30	4	3	282	336	1 700	2 400	30318DR	
	190	46.5	43	36	4	3	345	420	2 100	2 700	30318JR	
	190	46.5	43	36	4	3	336	407	2 100	2 700	30318R	
	190	67.5	64	53	4	3	461	614	2 100	2 800	32318JR	
95	130	23	23	18	1.5	1.5	104	186	2 600	3 500	32919JR	
	145	32	32	24	2	1.5	182	287	2 500	3 300	32019JR	
	145	39	39	32.5	2	1.5	226	382	2 500	3 300	33019JR	
	160	46	46	38	3	3	281	427	2 300	3 100	T2ED095	
	160	49	49	38	2.5	2	304	473	2 300	3 100	33119JR	
	170	34.5	32	27	3	2.5	231	299	2 200	3 000	30219JR	
	170	45.5	43	37	3	2.5	311	439	2 200	3 000	32219JR	
	170	58	58	44	3	2.5	374	582	2 200	2 900	33219JR	
	200	49.5	45	32	4	3	319	391	1 700	2 300	30319DJR	
	200	49.5	45	38	4	3	317	368	2 000	2 600	30319	
	200	49.5	45	38	4	3	372	455	2 000	2 600	30319JR	
	200	71.5	67	55	4	3	427	544	2 000	2 600	32319	
	200	71.5	67	55	4	3	517	695	2 000	2 600	32319JR	



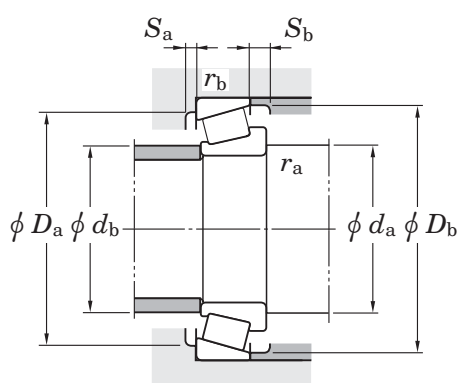
	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)									Con-stant <i>e</i>	Axial load factors		(Refer.) Mass (kg)
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max.	<i>D</i> _a min.	<i>D</i> _b min.	<i>S</i> _a min.	<i>S</i> _b min.	<i>r</i> _a max.	<i>r</i> _b max.		<i>Y</i> ₁	<i>Y</i> ₀	
	2GD	43.8	103	103	166	150	167	5	14.5	3	2.5	0.35	1.74	0.96	7.42
	2BC	22.3	98.5	97	116.5	114	120	5	5	1.5	1.5	0.34	1.75	0.96	0.834
	3CC	29.8	100	100	131.5	125	134	6	8	2	1.5	0.42	1.42	0.78	1.80
	2CE	27.1	100	100	131.5	127	135	7	6.5	2	1.5	0.27	2.23	1.23	2.22
	3DE	35.4	102	100	140	130	144	7	10	2	2	0.40	1.51	0.83	3.13
	2ED	33.5	104	102	141	135	147	7	8	2.5	2.5	0.33	1.84	1.01	3.47
	3FB	32.6	102	103	150	140	150	5	6.5	2	2	0.42	1.43	0.79	2.65
	3FC	37.0	102	102	150	138	152	5	8.5	2	2	0.42	1.43	0.79	3.47
	3FE	40.8	102	101	150	135	154	9	13	2	2	0.42	1.43	0.78	4.76
	7GB	59.6	108	109	176	151	179	6	16.5	3	2.5	0.83	0.73	0.40	5.57
	—	59.1	108	109	176	151	179	6	16.5	3	2.5	0.81	0.74	0.41	5.60
	2GB	38.1	108	113	176	165	177	5	10.5	3	2.5	0.35	1.74	0.96	6.04
	—	37.2	108	113	176	165	177	5	10.5	3	2.5	0.35	1.73	0.95	5.78
	2GD	46.6	108	108	176	157	177	5	14.5	3	2.5	0.35	1.74	0.96	8.61
		2BC	23.5	103.5	102	121.5	119	125	5	5	1.5	1.5	0.36	1.68	0.92
4CC		31.2	105	105	136.5	130	140	6	8	2	1.5	0.44	1.36	0.75	1.88
2CE		27.8	105	104	136.5	131	139	7	6.5	2	1.5	0.28	2.16	1.19	2.31
2ED		34.6	109	107	146	140	152	7	8	2.5	2.5	0.34	1.77	0.97	3.62
3EE		37.3	107	106	150	138	154	8	11	2	2	0.39	1.54	0.85	3.89
3FB		34.9	109	110	158	149	159	5	7.5	2.5	2	0.42	1.43	0.79	3.20
3FC		38.9	109	108	158	145	161	5	8.5	2.5	2	0.42	1.43	0.79	4.34
3FE		42.8	109	107	158	144	163	9	14	2.5	2	0.41	1.47	0.81	5.66
7GB		62.7	113	113	186	157	187	6	17.5	3	2.5	0.83	0.73	0.40	6.68
—		39.8	113	118	186	172	186	5	11.5	3	2.5	0.35	1.73	0.95	6.32
2GB		40.8	113	118	186	172	186	5	11.5	3	2.5	0.35	1.74	0.96	6.96
—		49.1	113	115	186	166	186	5	16.5	3	2.5	0.35	1.73	0.95	9.35
2GD		49.8	113	115	186	166	186	5	16.5	3	2.5	0.35	1.74	0.96	10.1

Single-row tapered roller bearings metric series

d 100 ~ (105) mm



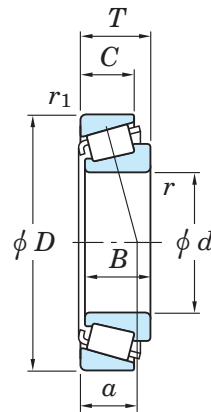
Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	
d	D	T	B	C	$r_{\min.}$	$r_{1\min.}$	C_r	C_{0r}	Grease lub.	Oil lub.		
100	140	25	25	20	1.5	1.5	126	217	2 400	3 300	32920JR	
	145	24	22.5	17.5	3	3	116	167	2 400	3 200	T4CB100	
	150	32	32	24	2	1.5	185	298	2 400	3 200	32020JR	
	150	39	39	32.5	2	1.5	231	397	2 400	3 200	33020JR	
	165	47	46	39	3	3	293	458	2 200	3 000	T2EE100	
	165	52	52	40	2.5	2	325	523	2 200	3 000	33120JR	
	180	37	34	29	3	2.5	258	338	2 100	2 800	30220JR	
	180	49	46	39	3	2.5	347	495	2 100	2 800	32220JR	
	180	63	63	48	3	2.5	431	680	2 100	2 800	33220JR	
	215	51.5	47	34	4	3	318	374	1 500	2 100	30320D	
	215	51.5	47	39	4	3	344	400	1 800	2 400	30320	
	215	51.5	47	39	4	3	422	521	1 800	2 400	30320JR	
	215	56.5	51	35	4	3	373	459	1 500	2 200	31320JR	
	215	77.5	73	60	4	3	491	637	1 800	2 400	32320	
	215	77.5	73	60	4	3	579	783	1 800	2 400	32320JR	
105	145	25	25	20	1.5	1.5	128	224	2 400	3 100	32921JR	
	160	35	35	26	2.5	2	215	344	2 200	3 000	32021JR	
	160	43	43	34	2.5	2	267	461	2 200	3 000	33021JR	
	175	56	56	44	2.5	2	360	607	2 100	2 800	33121JR	
	190	39	36	30	3	2.5	288	380	2 000	2 600	30221JR	
	190	53	50	43	3	2.5	392	567	2 000	2 700	32221JR	
	190	68	68	52	3	2.5	497	790	2 000	2 600	33221JR	
	225	53.5	49	36	4	3	339	396	1 400	2 000	30321D	
	225	53.5	49	41	4	3	371	432	1 700	2 300	30321	
	225	53.5	49	41	4	3	464	578	1 700	2 300	30321JR	
	225	58	53	36	4	3	397	489	1 500	2 100	31321JR	
	225	81.5	77	63	4	3	543	707	1 800	2 300	32321	



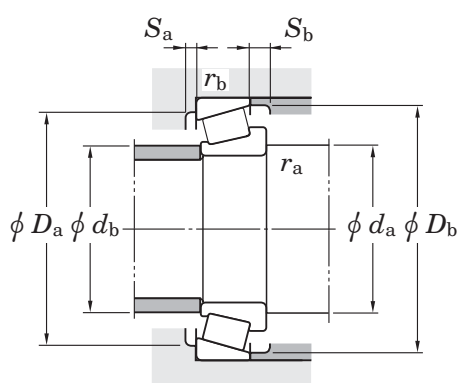
	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)								Con- stant	Axial load factors		(Refer.) Mass (kg)	
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max.	<i>D</i> _a min.	<i>D</i> _b min.	<i>S</i> _a min.	<i>S</i> _b min.	<i>r</i> _a max.	<i>r</i> _b max.	<i>e</i>	<i>Y</i> ₁	<i>Y</i> ₀	
	2CC	24.0	109	108	131	128	135	5	5	1.5	1.5	0.33	1.82	1.00	1.19
	4CB	29.9	112	109	133	132	140	4	6.5	2.5	2.5	0.47	1.27	0.70	1.12
	4CC	32.6	110	109	141	134	144	6	8	2	1.5	0.46	1.31	0.72	1.95
	2CE	28.6	110	108	141	135	143	7	6.5	2	1.5	0.29	2.09	1.15	2.40
	2EE	35.1	114	112	151	145	157	7	8	2.5	2.5	0.32	1.88	1.04	3.86
	3EE	40.1	112	111	155	142	159	8	12	2	2	0.41	1.48	0.81	4.29
	3FB	36.8	114	116	168	157	168	5	8	2.5	2	0.42	1.43	0.79	3.83
	3FC	42.1	114	114	168	154	171	5	10	2.5	2	0.42	1.43	0.79	5.21
	3FE	45.7	114	112	168	151	172	10	15	2.5	2	0.40	1.48	0.82	6.92
	—	65.9	118	121	201	183	204	5	17	3	2.5	0.81	0.74	0.41	8.02
	—	41.4	118	127	201	184	200	6	12.5	3	2.5	0.35	1.73	0.95	7.76
	2GB	42.7	118	127	201	184	200	6	12.5	3	2.5	0.35	1.74	0.96	8.49
	7GB	67.7	118	120	201	183	202	6	17.5	3	2.5	0.83	0.73	0.40	8.72
	—	52.6	118	123	201	177	200	8	17.5	3	2.5	0.35	1.73	0.95	12.2
	2GD	53.9	118	123	201	177	200	8	17.5	3	2.5	0.35	1.74	0.96	13.0
		2CC	25.1	113.5	113	136.5	133	140	5	5	1.5	1.5	0.34	1.75	0.96
4DC		34.5	117	116	150	143	154	6	9	2	2	0.44	1.35	0.74	2.45
2DE		30.9	117	116	150	145	153	7	9	2	2	0.28	2.12	1.17	3.08
3EE		43.2	117	116	165	150	169	9	12	2	2	0.40	1.48	0.82	5.33
3FB		39.0	119	122	178	165	178	6	9	2.5	2	0.42	1.43	0.79	4.49
3FC		44.8	119	120	178	161	180	6	10	2.5	2	0.42	1.43	0.79	6.37
3FE		48.8	119	117	178	159	182	10	16	2.5	2	0.40	1.49	0.82	8.43
—		69.1	123	127	211	193	209	6	17	3	2.5	0.81	0.74	0.41	8.76
—		43.1	123	132	211	193	209	7	12.5	3	2.5	0.35	1.73	0.95	8.74
2GB		44.1	123	132	211	193	209	7	12.5	3	2.5	0.35	1.74	0.96	9.73
7GB		70.3	123	126	211	193	211	6	18	3	2.5	0.83	0.73	0.40	9.72
—		55.7	123	128	211	185	209	8	18.5	3	2.5	0.35	1.73	0.95	13.9

Single-row tapered roller bearings metric series

d (105) ~ 120 mm



Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	
d	D	T	B	C	$r_{\min.}$	$r_{1\min.}$	C_r	C_{0r}	Grease lub.	Oil lub.		
105	225	81.5	77	63	4	3	635	866	1 800	2 300	32321JR	
110	150	25	25	20	1.5	1.5	129	231	2 300	3 000	32922JR	
	160	27	25.5	19.5	3	3	146	225	2 200	2 900	T4CB110	
	170	38	38	29	2.5	2	248	395	2 100	2 800	32022JR	
	170	47	47	37	2.5	2	287	502	2 100	2 800	33022JR	
	180	56	56	43	2.5	2	369	634	2 000	2 700	33122JR	
	200	41	38	32	3	2.5	324	434	1 900	2 500	30222JR	
	200	56	53	46	3	2.5	438	640	1 900	2 500	32222JR	
	240	54.5	50	36	4	3	365	429	1 400	1 900	30322D	
	240	54.5	50	42	4	3	407	475	1 600	2 100	30322	
	240	54.5	50	42	4	3	481	590	1 600	2 100	30322JR	
	240	63	57	38	4	3	452	563	1 400	1 900	31322JR	
	240	84.5	80	65	4	3	607	797	1 600	2 200	32322	
	240	84.5	80	65	4	3	691	943	1 600	2 200	32322JR	
120	165	29	29	23	1.5	1.5	172	298	2 100	2 700	32924JR	
	170	27	25	19.5	3	3	164	262	2 000	2 700	T4CB120	
	180	38	38	29	2.5	2	258	427	2 000	2 600	32024JR	
	180	48	48	38	2.5	2	299	540	2 000	2 600	33024JR	
	200	62	62	48	2.5	2	462	785	1 800	2 400	33124JR	
	215	43.5	40	34	3	2.5	347	473	1 700	2 300	30224JR	
	215	61.5	58	50	3	2.5	470	691	1 700	2 300	32224JR	
	260	59.5	55	38	4	3	430	512	1 200	1 700	30324D	
	260	59.5	55	46	4	3	505	611	1 500	2 000	30324	
	260	59.5	55	46	4	3	569	714	1 500	2 000	30324JR	
	260	68	62	42	4	3	526	665	1 300	1 800	31324JR	
	260	90.5	86	69	4	3	800	1 110	1 500	2 000	32324JR	
	260	90.5	86	69	4	3	797	1 110	1 500	2 000	32324R	



	Dimension series to ISO355 (Refer.)	Load center (mm) <i>a</i>	Mounting dimensions (mm)									Con-stant <i>e</i>	Axial load factors		(Refer.) Mass (kg)
			<i>d</i> _a min.	<i>d</i> _b max.	<i>D</i> _a max.	<i>D</i> _b min.	<i>S</i> _a min.	<i>S</i> _b min.	<i>r</i> _a max.	<i>r</i> _b max.	<i>Y</i> ₁		<i>Y</i> ₀		
	2GD	56.1	123	128	211	185	209	8	18.5	3	2.5	0.35	1.74	0.96	14.9
	2CC	26.3	119	118	141	138	145	5	5	1.5	1.5	0.36	1.69	0.93	1.28
	4CB	31.8	124	120	146	145	154	5	7.5	2.5	2.5	0.44	1.36	0.75	1.63
	4DC	36.1	122	122	160	152	163	7	9	2	2	0.43	1.39	0.77	3.12
	2DE	33.4	122	123	160	152	161	7	10	2	2	0.29	2.09	1.15	3.81
	3EE	44.5	122	121	170	155	174	9	13	2	2	0.42	1.43	0.79	5.52
	3FB	40.8	124	129	188	174	188	6	9	2.5	2	0.42	1.43	0.79	5.33
	3FC	46.7	124	126	188	170	190	6	10	2.5	2	0.42	1.43	0.79	7.45
	—	71.5	128	135	226	205	222	6	18	3	2.5	0.81	0.74	0.41	10.2
	—	44.8	128	141	226	206	222	8	12.5	3	2.5	0.35	1.73	0.95	10.4
	2GB	46.3	128	141	226	206	222	8	12.5	3	2.5	0.35	1.74	0.96	11.4
	7GB	76.2	128	135	226	205	224	6	21	3	2.5	0.83	0.73	0.40	12.2
	—	57.3	128	137	226	198	222	9	19.5	3	2.5	0.35	1.73	0.95	16.6
	2GD	59.3	128	137	226	198	222	9	19.5	3	2.5	0.35	1.74	0.96	17.8
		2CC	29.4	129	128	156	152	160	6	6	1.5	1.5	0.35	1.72	0.95
4CB		34.6	134	130	156	155	164	4	7.5	2.5	2.5	0.47	1.27	0.70	1.76
4DC		38.8	132	131	170	161	173	7	9	2	2	0.46	1.31	0.72	3.34
2DE		36.2	132	132	170	160	171	6	10	2	2	0.31	1.97	1.08	4.16
3FE		47.8	132	133	190	172	192	9	14	2	2	0.40	1.51	0.83	7.73
4FB		44.2	134	140	203	187	203	6	9.5	2.5	2	0.44	1.38	0.76	6.36
4FD		51.6	134	136	203	181	204	7	11.5	2.5	2	0.44	1.38	0.76	9.04
—		77.8	138	145	246	219	239	6	21	3	2.5	0.81	0.74	0.41	13.0
—		48.9	138	152	246	221	239	10	13.5	3	2.5	0.35	1.73	0.95	13.7
2GB		50.2	138	152	246	221	239	10	13.5	3	2.5	0.35	1.74	0.96	14.5
7GB		81.9	138	145	246	221	244	6	21	3	2.5	0.83	0.73	0.40	15.4
2GD		62.7	138	148	246	213	239	9	21.5	3	2.5	0.35	1.74	0.96	22.2
—		61.1	138	148	246	213	239	9	21.5	3	2.5	0.35	1.73	0.95	21.8