

Single row tapered roller bearing



d 15-30 mm

Boundary dimensions (mm)							r (Min)		Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers	Nominal numbers (old)	Mounting dimensions (mm)							Application point position	Constant	Axial load coefficient		Reference mass (kg)
d	D	T	B	C	Inner ring	Outer ring	C _r	C _{0r}	Grease	Oil	d _f Min	d _e Max			D ₂ Max	D ₄ Min	S ₂ Min	S ₃ Min	Inner ring (Max)	Outer ring (Max)	mm a			e	Y _r	
15	35	11.75	11	10	0.6	0.6	14.8	13.2	11,000	15,000	30202 30302	7202E 7302E	23	19	30	33	2	1.5	0.6	0.6	8.2	0.32	1.9	1.0	0.056	
	42	14.25	13	11	1	1	23.6	21.1	9,500	13,000			24	22	36	38.5	2	3	1	1	9.5	0.29	2.1	1.2	0.096	
17	40	13.25	12	11	1	1	20.1	19.9	9,500	13,000	30203 32203 30303	7203E 7503E 7303E	26	23	34	37.5	2	2	1	1	9.7	0.35	1.7	0.96	0.079	
	40	17.25	16	14	1	1	22.7	23.3	9,500	13,000			26	22	34	37.5	2	3	1	1	11.0	0.29	2.1	1.1	0.105	
	47	15.25	14	12	1	1	29.2	26.7	8,500	12,000			26	24	41	43	2	3	1	1	10.4	0.29	2.1	1.2	0.133	
	47	20.25	19	16	1	1	36.6	35.9	8,500	11,000	32303	7603E	23	24	41	43	2	4	1	1	12.2	0.29	2.1	1.1	0.174	
20	42	15	15	12	0.6	0.6	24.6	27.4	9,000	12,000	32004 30204 32204	2007104E 7204E 7504E	28	24	37	40	3	3	0.6	0.6	10.6	0.37	1.6	0.88	0.102	
	47	15.25	14	12	1	1	27.9	28.5	8,000	11,000			29	27	41	44	2	3	1	1	11.0	0.35	1.7	0.96	0.124	
	47	19.25	18	15	1	1	31.5	33.5	8,000	10,000			29	26	41	44	2	4	1	1	12.7	0.35	1.7	0.95	0.158	
	52	16.25	15	13	1.5	1.5	35	33.5	7,500	10,000	30304 32304	7304E 7604E	31	27	44	47.5	2	3	2.0	1.1	11.6	0.30	2	1.1	0.171	
52	22.25	21	18	1.5	1.5	45.5	47.5	8,000	11,000	33			26	43	48	3	4	1.5	1.5	13.9	0.30	2	1.1	0.204		
22	44	15	15	11.5	0.6	0.6	25.6	29.4	8,500	11,000	320/22 302/22 322/22	20071/22E — —	30	27	39	42	3	3.5	0.6	0.6	11.1	0.40	1.5	0.83	0.103	
	50	15.25	14	12	1	1	29.2	30.5	7,500	10,000			31	29	44	47	2	3	1	1	11.6	0.37	1.6	0.9	0.139	
	50	19.25	18	15	1	1	36.5	40.5	7,500	11,000			31	28	44	47	2	4	1	1	13.0	0.49	1.6	0.89	0.180	
25	47	15	15	11.5	0.6	0.6	27.4	33	8,300	11,000	32005 33005 30205	2007105E — 7205E	33	30	42	45	3	3.5	0.6	0.6	11.8	0.43	1.4	0.77	0.118	
	47	17	17	14	0.6	0.6	31	38	8,000	11,000			33	29	42	44	3	3	0.6	0.6	11.0	0.29	2.1	1.1	0.131	
	52	16.25	15	13	1	1	32	35	7,000	9,000			34	31	46	48.5	2	3	1	1	12.7	0.38	1.6	0.88	0.159	
	52	19.25	18	15	1	1	38.5	43.5	7,000	10,000	32205 33205 30305	7505E 3007205E 7305E	34	30	46	49	2	4	1	1	13.7	0.39	1.5	0.85	0.186	
	52	22	22	18	1	1	47.5	56.5	7,900	10,000			34	29	46	49.5	4	4	1	1	14.1	0.35	1.7	0.94	0.225	
	62	18.25	17	15	1.5	1.5	47.5	46	6,300	8,500			36	34	54	57	2	3	1.5	1.5	13.2	0.30	2	1.1	0.271	
	62	18.25	17	13	1.5	1.5	38	40	5,700	8,000	31305 32305	27305E 7605E	34	32	47	59	3	5	1.5	1.5	19.1	0.81	0.74	0.41	0.260	
	62	25.25	24	20	1.5	1.5	62.5	66	6,300	8,000			38	32	53	59	3	5	1.5	1.5	15.6	0.30	2	1.1	0.365	
28	52	16	16	12	1	1	32	39	7,100	9,500	320/28 302/28 303/28	— — —	37	33	46	50	3	4	1	1	12.8	0.43	1.4	0.77	0.146	
	58	17.25	16	14	1	1	39.5	41.5	6,300	9,000			37	34	52	55	2	3	1	1	13.2	0.35	1.7	0.93	0.203	
	68	19.75	18	15	1.5	1.5	55	55.5	6,000	8,000			39	37	59	61	2	4.5	1.5	1.5	14.5	0.31	1.9	1.1	0.341	
30	55	17	17	13	1	1	36	44.5	6,700	9,000	32006 30206 32206	2007106E 7206E 7506E	39	35	49	53	3	4	1	1	13.5	0.43	1.4	0.77	0.170	
	62	17.25	16	14	1	1	43	47.5	6,000	8,000			39	37	56	58	2	3	1	1	13.9	0.38	1.6	0.88	0.245	
	62	21.25	20	17	1	1	52	60	6,000	8,500			39	36	56	58.5	2	4	1	1	15.4	0.38	1.6	0.88	0.285	

Single row tapered roller bearing



d 30~45 mm

Boundary dimensions (mm)							r (Min)		Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers	Nominal numbers (old)	Mounting dimensions (mm)							Application point position	Constant	Axial load coefficient		Reference mass		
d	D	T	B	C	Inner ring	Outer ring	C _r	C _{0r}	Grease	Oil						d _r Min	d _r Max	D _r Max	D _r Min	S _r Min	S _r Max	Inner ring r (Max)	Outer ring r (Max)	mm a	e	Y _r	Y ₀	(kg)
30	62	25	25	19.5	1	1	66.5	79.5	6,000	8,000	33206	—	39	35	56	59.5	5	5.5	1	1	16.1	0.34	1.8	0.97	0.355			
	72	20.75	19	16	1.5	1.5	59.5	60	5,300	7,500	30306	7306E	41	40	63	66	3	4.5	1.5	1.5	15.1	0.32	1.9	1	0.408			
	72	20.75	19	14	1.5	1.5	47.3	50	5,000	6,700	31306	27306E	40	37	55	68	3	6.5	1.5	1.5	22.3	0.81	0.74	0.41	0.378			
	72	28.75	27	23	1.5	1.5	80	88.5	5,600	7,000	32306	7606E	43	36	63	68	3	5.5	1.5	1.5	18.0	0.32	1.6	0.88	0.575			
32	58	17	17	13	1	1	37.5	47	6,300	8,500	320/32	—	41	37	52	55	3	4	1	1	14.2	0.45	1.3	0.73	0.191			
	65	18.25	17	15	1	1	48.5	54	5,600	8,000	302/32	—	41	39	59	61	3	3	1	1	14.7	0.37	1.6	0.88	0.275			
	65	22.25	21	18	1	1	56	65	6,000	8,000	322/32	—	41	38	59	61	3	4	1	1	15.9	0.37	1.6	0.88	0.336			
	65	26	26	20.5	1	1	70	86.5	5,600	8,000	332/32	—	41	38	59	62	5	5.5	1	1	17.0	0.35	1.7	0.95	0.400			
35	62	18	18	14	1	1	43.5	55.5	5,600	8,000	32007	2007107E	44	40	56	60	4	4	1	1	15.0	0.45	1.3	0.73	0.223			
	62	21	21	17	1	1	49	65	5,600	8,000	33007	—	44	40	56	59	4	4	1	1	14.1	0.31	2	1.1	0.267			
	72	18.25	17	15	1.5	1.5	54	59.5	5,300	7,100	30207	7207E	46	43	63	67	3	3	1.5	1.5	15.0	0.38	1.6	0.88	0.345			
	72	24.25	23	19	1.5	1.5	70.5	83.5	5,300	7,100	32207	7507E	46	42	63	67.5	3	5	1.5	1.5	17.9	0.38	1.6	0.88	0.458			
	72	28	28	22	1.5	1.5	86.5	108	5,300	7,100	33207	—	46	41	63	68	5	6	1.5	1.5	18.3	0.35	1.7	0.93	0.540			
	80	22.75	21	18	2	1.5	76	79	4,800	6,700	30307	7307E	47	45	71	74	3	4.5	2	1.5	16.7	0.32	1.9	1	0.513			
	80	22.75	21	15	2	1.5	62	68	4,300	6,000	31307	27307E	51	44	71	77	3	7.5	2	1.5	25.2	0.83	0.73	0.4	0.520			
	80	32.75	31	25	2	1.5	99	111	5,000	6,700	32307	7607E	49	43	71	74	3	7.5	2	1.5	20.7	0.32	1.9	1	0.760			
40	62	15	15	12	0.6	0.6	34	47	5,600	7,500	32908	2007908	48	44	57	59	3	3	0.6	0.6	11.5	0.29	2.1	1.1	0.163			
	68	19	19	14.5	1	1	52.5	71	5,300	7,100	32008	2007108	49	45	62	65.5	4	4.5	1	1	15.0	0.38	1.6	0.87	0.280			
	80	19.75	18	16	1.5	1.5	63.5	70	4,800	6,300	30208	7208E	51	48	71	75	3	3.5	1.5	1.5	16.6	0.38	1.6	0.88	0.438			
	80	24.75	23	19	1.5	1.5	74	90.5	4,500	6,300	32208	7508E	51	47	71	76	3	5.5	1.5	1.5	18.9	0.38	1.6	0.88	0.559			
	90	25.25	23	20	2	1.5	90.5	101	4,300	5,600	30308	7308E	52	52	81	82	3	5	2	1.5	19.5	0.35	1.7	0.96	0.761			
	90	25.25	23	17	2	1.5	80	89.5	4,000	5,300	31308	27308E	56	50	81	87	3	8	2	1.5	20.8	0.36	1.7	0.9	0.726			
	90	35.25	33	27	2	1.5	120	145	4,500	6,000	32308	7608E	54	50	81	82	3	8	2	1.5	23.4	0.35	1.7	0.96	1.045			
	90	35.25	33	27	2	1.5	120	145	4,500	6,000	32308	7608E	54	50	81	82	3	8	2	1.5	23.4	0.35	1.7	0.96	1.045			
45	68	15	15	12	0.6	0.6	34.5	50.5	5,000	6,700	32909	2007909	53	50	63	64	3	3	0.6	0.6	12.3	0.32	1.9	1	0.187			
	75	20	20	15.5	1	1	60	83	4,500	6,300	32009	2007109	54	51	69	72	4	4.5	1	1	16.6	0.39	1.5	0.84	0.354			
	85	20.75	19	16	1.5	1.5	68.5	79.5	4,300	6,000	30209	7209E	56	53	76	80	3	4.5	1.5	1.5	18.3	0.41	1.5	0.81	0.506			
	85	24.75	23	19	1.5	1.5	83	102	4,300	6,000	32209	7509E	56	53	76	81	3	5.5	1.5	1.5	20.1	0.41	1.5	0.81	0.602			

Single row tapered roller bearing



d 45-65 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Nominal numbers (old)		Mounting dimensions (mm)							Application point position	Constant	Axial load coefficient		Reference mass	
d	D	T	B	C	inner ring	Outer ring	C _r	C _{0r}	Grease	Oil					d _i	d _e	D ₂	D ₁	S ₁	S ₂	inner ring	Outer ring	r _a	e	Y ₁	Y ₂	(kg)
45	100	27.25	25	22	2	1.5	112	127	3,800	5,300	30309		7309E	57	58	91	93	3	5	2	1.5	21.1	0.35	1.7	0.96	1.008	
	100	27.25	25	18	2	1.5	95.5	109	4,000	5,000	31309		27309E	61	57	91	96	3	9	2	1.5	31.5	0.83	0.73	0.40	0.958	
	100	38.25	36	30	2	1.5	144	177	3,800	5,300	32309		7609E	59	56	91	93	3	8	2	1.5	25.0	0.35	1.7	0.96	1.417	
50	72	15	15	12	0.6	0.6	36	54	4,500	6,300	32910		2007910	58	54	67	69	3	3	0.6	0.6	13.5	0.34	1.8	0.97	0.192	
	80	20	20	15.5	1	1	61	87	4,300	6,000	32010		2007110	59	56	74	77	4	4.5	1	1	17.9	0.42	1.4	0.78	0.310	
	90	21.75	20	17	1.5	1.5	76	91.5	4,000	5,300	30210		7210E	61	58	81	85	3	4.5	1.5	1.5	19.6	0.42	1.4	0.79	0.592	
	90	24.75	23	19	1.5	1.5	87.5	109	4,000	5,300	32210		7510E	61	57	81	86	3	5.5	1.5	1.5	21.0	0.42	1.4	0.79	0.618	
	110	29.25	27	23	2.5	2	130	148	3,400	4,800	30310		7310E	65	65	100	102	3	6	2	2	23.1	0.35	1.7	0.96	1.250	
	110	29.25	27	19	2.5	2	106	120	3,800	4,800	31310		27310E	62	60	100	104	4	10	2	2	34.2	0.83	0.73	0.40	1.254	
	110	42.25	40	33	2.5	2	176	220	3,600	4,800	32310		7610E	68	62	100	102	3	9	2	2	27.9	0.35	1.7	0.96	1.885	
	55	90	23	23	17.5	1.5	1.5	81.5	117	3,800	5,300	32011		2007111	66	62	81	86	4	5.5	1.5	1.5	19.7	0.41	1.5	0.81	0.530
		100	22.75	21	18	2	1.5	94.5	113	3,600	5,000	30211		7211E	67	64	91	94	4	4.5	2	1.5	20.9	0.41	1.5	0.81	0.739
100		26.75	25	21	2	1.5	110	137	3,600	5,000	32211		7511E	67	63	91	95	4	5.5	2	1.5	22.7	0.41	1.5	0.81	0.915	
120		31.5	29	25	2.5	2	150	171	3,200	4,300	30311		7311E	70	71	110	111	4	6.5	2	2	24.6	0.35	1.7	0.96	1.628	
120		31.5	29	21	2.5	2	121	137	3,400	4,300	31311		27311E	68	65	110	113	4	10.5	2	2	37.0	0.83	0.73	0.40	1.576	
120		45.5	43	35	2.5	2	204	258	3,200	4,300	32311		7611E	73	67	110	111	4	10.5	2	2	29.9	0.35	1.7	0.96	2.390	
60	95	23	23	17.5	1.5	1.5	85.5	127	3,600	5,000	32012		2007112	71	66	86	91	4	5.5	1.5	1.5	20.9	0.43	1.4	0.77	0.560	
	110	23.75	22	19	2	1.5	104	123	3,400	4,500	30212		7212E	72	69	101	103	4	4.5	2	1.5	22.0	0.41	1.5	0.81	0.934	
	110	29.75	28	24	2	1.5	131	167	3,400	4,500	32212		7512E	72	68	101	104	4	5.5	2	1.5	24.1	0.41	1.5	0.81	1.197	
	130	33.5	31	26	3	2.5	174	201	3,000	4,000	30312		7312E	78	77	118	120	4	7.5	2.5	2	26.0	0.35	1.7	0.96	1.940	
	130	33.5	31	22	3	2.5	145	166	2,600	3,600	31312		27312E	84	74	118	125	4	11.5	2.5	2	40.3	0.83	0.73	0.40	1.896	
	130	48.5	46	37	3	2.5	233	295	3,000	4,000	32312		7612E	81	74	118	120	4	11.5	2.5	2	31.4	0.35	1.7	0.96	2.880	
65	100	23	23	17.5	1.5	1.5	86.5	132	3,400	4,500	32013		2007113	76	71	91	97	4	5.5	1.5	1.5	22.4	0.46	1.3	0.72	0.630	
	120	24.75	23	20	2	1.5	122	151	3,000	4,000	30213		7213E	77	78	111	113	4	4.5	2	1.5	23.8	0.41	1.5	0.81	1.132	
	120	32.75	31	27	2	1.5	157	202	3,000	4,000	32213		7513E	77	75	111	115	4	5.5	2	1.5	27.1	0.41	1.5	0.81	1.580	
	140	36	33	28	3	2.5	200	233	2,600	3,600	30313		7313E	83	83	128	130	4	8	2.5	2	27.9	0.35	1.7	0.96	2.629	
	140	36	33	23	3	2.5	173	205	2,800	3,600	31313		27313E	89	80	128	133	4	13	2.5	2	43.2	0.83	0.73	0.4	2.426	
	140	51	48	39	3	2.5	267	340	2,800	3,800	32313		7613E	86	80	128	130	4	12	2.5	2	34.0	0.35	1.7	0.96	3.609	

Single row tapered roller bearing



d 70-90 mm

Boundary dimensions (mm)						r (Min)		Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Nominal numbers (old)		Mounting dimensions (mm)						Application point position	Constant	Axial load coefficient		Reference mass
d	D	T	B	C	Inner ring	Outer ring	C _r	C _{0r}	Grease	Oil			D ₁	S ₁	S ₂	Min	Inner ring (Max)	Outer ring (Max)	mm a	e	Y ₁	Y ₂	(kg)			
70	110	25	25	19	1.5	1.5	104	158	3,200	4,300	32014		2007114	81	77	101	105	5	6	1.5	1.5	23.7	0.43	1.4	0.76	0.850
	125	26.25	24	21	2	1.5	132	163	2,800	4,000	30214		7214E	82	81	116	118	4	5	2	1.5	25.6	0.42	1.4	0.79	1.296
	125	33.25	31	27	2	1.5	157	205	2,800	4,000	32214		7514E	82	80	116	119	4	6	2	1.5	28.6	0.42	1.4	0.79	1.620
	150	38	35	30	3	2.5	227	268	2,400	3,400	30314		7314E	88	89	138	140	4	8	2.5	2	29.7	0.35	1.7	0.96	3.170
	150	38	35	25	3	2.5	192	229	2,600	3,400	31314		27314E	94	85	138	142	4	13	2.5	2	45.7	0.83	0.73	0.4	2.935
	150	54	51	42	3	2.5	300	390	2,600	3,400	32314		7614E	91	86	138	140	4	12	2.5	2	36.0	0.35	1.7	0.96	4.346
75	115	25	25	19	1.5	1.5	109	171	3,000	4,000	32015		2007115	86	82	106	110	5	6	1.5	1.5	25.1	0.46	1.3	0.72	0.880
	130	27.25	25	22	2	1.5	143	182	2,800	3,800	30215		7215E	87	85	121	124	4	5	2	1.5	27.0	0.44	1.4	0.76	1.384
	130	33.25	31	27	2	1.5	165	219	2,800	3,800	32215		7515E	87	84	121	125	4	6	2	1.5	29.8	0.44	1.4	0.76	1.765
	160	40	37	31	3	2.5	253	300	2,400	3,200	30315		7315E	93	95	148	149	4	9	2.5	2	31.8	0.35	1.7	0.96	3.542
	160	40	37	26	3	2.5	211	251	2,200	3,000	31315		27315E	99	91	148	152	6	14	2.5	2	48.7	0.83	0.73	0.4	3.469
	160	58	55	45	3	2.5	340	445	2,400	3,200	32315		7615E	96	91	148	149	4	13	2.5	2	38.9	0.35	1.7	0.96	5.316
80	125	29	29	22	1.5	1.5	140	222	2,800	3,600	32016		2007116	91	89	116	120	6	7	1.5	1.5	26.9	0.42	1.4	0.78	1.180
	140	28.25	26	22	2.5	2	157	195	2,600	3,400	30216		7216E	95	91	130	132	4	6	2	2	28.1	0.42	1.4	0.79	1.650
	140	35.25	33	28	2.5	2	192	254	2,600	3,400	32216		7516E	95	90	130	134	4	7	2	2	30.6	0.42	1.4	0.79	2.162
	170	42.5	39	33	3	2.5	276	330	2,200	3,000	30316		7316E	98	102	158	159	4	9.5	2.5	2	34.0	0.35	1.7	0.96	4.486
	170	42.5	39	27	3	2.5	235	285	2,000	2,800	31316		27316E	104	97	158	159	6	15.5	2.5	2	51.8	0.83	0.73	0.4	4.065
	170	61.5	58	48	3	2.5	385	505	2,200	3,000	32316		7616E	101	98	158	159	4	13.5	2.5	2	41.3	0.35	1.7	0.96	6.390
85	130	29	29	22	1.5	1.5	143	231	2,600	3,600	32017		2007117	96	94	121	125	6	7	1.5	1.5	28.2	0.44	1.4	0.75	1.250
	150	30.5	28	24	2.5	2	184	233	2,400	3,200	30217		7217E	100	97	140	141	5	6.5	2	2	30.3	0.42	1.4	0.79	2.060
	150	38.5	36	30	2.5	2	210	277	2,400	3,200	32217		7517E	100	96	140	142	5	8.5	2	2	33.8	0.42	1.4	0.79	2.670
	180	44.5	41	34	4	3	310	375	2,000	2,800	30317		7317E	106	108	166	167	5	10.5	3	2.5	35.7	0.35	1.7	0.96	5.305
	180	44.5	41	28	4	3	261	315	2,000	2,600	31317		27317E	113	103	166	169	6	16.5	3	2.5	55.2	0.83	1.74	0.96	4.881
	180	63.5	60	49	4	3	410	535	2,000	2,800	32317		7617E	110	104	166	167	5	14.5	3	2.5	43.5	0.35	1.7	0.96	7.302
90	140	32	32	24	2	1.5	170	273	2,400	3,200	32018		2007118	102	99	131	134	6	8	2	1.5	29.7	0.42	1.4	0.78	1.700
	160	32.5	30	26	2.5	2	201	256	2,200	3,000	30218		7218E	105	103	150	150	5	6.5	2	2	31.7	0.42	1.4	0.79	2.558
	160	42.5	40	34	2.5	2	256	350	2,200	3,000	32218		7518E	105	102	150	152	5	8.5	2	2	36.1	0.42	1.4	0.79	3.265
	190	46.5	43	36	4	3	305	360	1,900	2,600	30318		7318E	111	115	176	177	5	10.5	3	2.5	37.6	0.35	1.7	0.95	6.144
	190	46.5	43	30	4	3	265	315	1,800	2,400	31318		27318E	118	110	176	179	6	16.5	3	2.5	58.5	0.83	0.73	0.4	5.511
	190	67.5	64	53	4	3	450	590	2,000	2,600	32318		7618E	115	109	176	177	5	14.5	3	2.5	46.5	0.35	1.7	0.96	8.568

Single row tapered roller bearing



d 95~120 mm

Boundary dimensions (mm)						r (Min)		Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers	Nominal numbers (old)	Mounting dimensions (mm)								Application point position mm a	Constant e	Axial load coefficient		Reference mass (kg)
d	D	T	B	C	Inner ring	Outer ring		C _r	C _{0r}	Grease	Oil			d _f Min	d _e Max	D ₂ Max	D ₃ Min	S ₂ Min	S ₃ Min	Inner ring (Max)	Outer ring (Max)			Y ₁	Y ₂	
95	145	32	32	24	2	1.5		173	283	2,400	3,200	32019 30219 32219	2007119 7219E 7519E	107	104	136	140	6	8	2	1.5	31.2	0.44	1.4	0.75	1.700
	170	34.5	32	27	3	2.5		223	286	2,200	2,800			113	110	158	159	5	7.5	2.5	2	33.7	0.42	1.4	0.79	3.269
	170	45.5	43	37	3	2.5		289	400	2,200	2,800			113	108	158	161	5	8.5	2.5	2	39.3	0.42	1.4	0.79	4.216
	200	49.5	45	38	4	3		335	400	1,900	2,400	30319 31319 32319	7319E 27319E 7619E	116	119	186	184	5	11.5	3	2.5	39.7	0.35	1.7	0.95	6.546
	200	49.5	45	32	4	3		310	375	1,800	2,400			123	115	186	187	6	17.5	3	2.5	61.9	0.83	0.73	0.4	6.635
100	200	71.5	67	55	4	3		460	600	1,900	2,400	32020 30220 32220	2007120 7220E 7520E	120	114	186	184	5	16.5	3	2.5	48.5	0.35	1.7	0.95	9.645
	150	32	32	24	2	1.5		176	294	2,200	3,000	30320 31320 32320	7320E 27320E 7620E	112	109	141	144	6	8	2	1.5	32.5	0.46	1.3	0.72	1.947
	180	37	34	29	3	2.5		255	330	2,000	2,600			118	116	168	168	5	8	2.5	2	36.1	0.42	1.4	0.79	3.976
	180	49	46	39	3	2.5		325	450	2,000	2,600			118	115	168	171	5	10	2.5	2	41.5	0.42	1.4	0.79	5.213
	215	51.5	47	39	4	3		365	435	1,700	2,400	30321 31321 32321	7321E 27321E 7621E	121	128	201	196	5	12.5	3	2.5	41.7	0.35	1.7	0.95	8.690
105	215	56.5	51	35	4	3		350	435	1,600	2,000			114	121	201	202	7	21.5	3	2.5	69.0	0.83	0.73	0.4	8.600
	215	77.5	73	60	4	3		565	755	1,700	2,400			125	125	201	200	5	17.5	3	2.5	53.2	0.35	1.7	0.96	12.96
	160	35	35	26	2.5	2		204	340	2,000	2,800	30321 31321 32321	7321E 27321E 7621E	120	115	150	154	6	9	2	2	34.3	0.44	1.4	0.74	2.500
	190	39	36	30	3	2.5		280	365	1,900	2,600			123	123	178	177	6	9	2.5	2	38.1	0.42	1.4	0.79	4.510
	190	53	50	43	3	2.5		360	510	1,900	2,600			123	120	178	180	5	10	2.5	2	44.8	0.42	1.4	0.79	6.260
110	225	53.5	49	41	4	3		395	470	1,600	2,200	30322 31322 32322	7322E 27322E 7622E	126	134	211	206	6	12.5	3	2.5	43.5	0.35	1.7	0.95	9.120
	225	58	53	36	4	3		380	470	1,700	2,300			119	126	211	211	7	22	3	2.5	71.5	0.83	0.73	0.4	9.680
	225	81.5	77	63	4	3		585	780	1,700	2,200			130	129	211	209	6	18.5	3	2.5	55.0	0.35	1.7	0.95	14.21
	170	38	38	29	2.5	2		236	390	2,000	2,600	30322 31322 32322	7322E 27322E 7622E	125	121	160	163	7	9	2	2	35.9	0.43	1.4	0.77	3.100
	200	41	38	32	3	2.5		315	420	1,800	2,400			128	129	188	187	6	9	2.5	2	40.1	0.42	1.4	0.79	5.270
120	200	56	53	46	3	2.5		400	565	1,800	2,400			128	127	188	190	5	10	2.5	2	47.2	0.42	1.4	0.79	7.360
	240	54.5	50	42	4	3		485	595	1,500	2,000	30324 31324 32324	7324E 27324E 7624E	131	143	226	220	6	12.5	3	2.5	45.1	0.35	1.7	0.96	11.45
	240	63	57	38	4	3		430	563	1,400	1,900			124	135	226	224	7	25	3	2.5	76.0	0.83	0.73	0.4	12.20
	240	84.5	80	65	4	3		675	910	1,500	2,000			135	139	226	222	6	19.5	3	2.5	58.5	0.35	1.7	0.96	18.78
	180	38	38	29	2.5	2		242	405	1,800	2,400	30324 31324 32324	7324E 27324E 7624E	135	131	170	173	7	9	2	2	39.7	0.46	1.3	0.72	3.100
120	215	43.5	40	34	3	2.5		335	450	1,600	2,200			138	141	203	201	6	9.5	2.5	2	44.4	0.44	1.4	0.76	6.125
	215	61.5	58	50	3	2.5		440	635	1,600	2,200			138	137	203	204	6	11.5	2.5	2	52.0	0.44	1.4	0.76	9.169
	260	59.5	55	46	4	3		535	655	1,400	1,900	30324 31324 32324	7324E 27324E 7624E	141	154	246	237	6	13.5	3	2.5	50.0	0.35	1.7	0.96	13.7
	260	68	62	42	4	3		526	665	1,300	1,800			134	145	246	244	9	26	3	2.5	82.5	0.83	0.73	0.4	15.4
	260	90.5	86	69	4	3		770	1060	1,400	1,900			145	149	246	239	6	21.5	3	2.5	62.4	0.35	1.7	0.96	21.7

Single row tapered roller bearing



d 130~170 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Nominal numbers (old)		Mounting dimensions (mm)						Application point position	Constant	Axial load coefficient		Reference mass		
d	D	T	B	C	inner ring	Outer ring	C _r	C _{0r}	Grease	Oil					d _f	d _e Max	D ₂ Max	D ₁ Min	S ₁ Min	S ₂ Min	inner ring r _i (Max)	Outer ring r _e	mm a	e	Y ₁	Y ₂	(kg)
130	200	45	45	34	2.5	2	320	535	1,600	2,200	32026	2007126	145	144	190	192	8	11	2	2	43.9	0.43	1.4	0.76	5.06		
	230	43.75	40	34	4	3	375	505	1,500	2,000	30226	7226E	151	151	216	217	7	9.5	3	2.5	45.8	0.44	1.4	0.76	7.24		
	230	67.75	64	54	4	3	530	790	1,500	2,000	32226	7526E	151	147	216	219	7	13.5	3	2.5	56.9	0.44	1.4	0.76	11.37		
	280	63.75	58	49	5	4	545	675	1,300	1,800	30326	7326E	157	168	262	255	8	14.5	4	3	53.9	0.36	1.7	0.92	17.1		
	280	72	66	44	5	4	589	748	1,200	1,600	31326	27326E	148	152	262	261	9	28	4	3	87.5	0.83	0.73	0.4	18.9		
280	98.75	93	78	5	4	830	1150	1,300	1,800	32326	7626E	162	165	262	263	8	20.5	4	3	69.2	0.36	1.7	0.92	26.6			
140	210	45	45	34	2.5	2	325	555	1,600	2,200	32028	2007128	155	152	200	202	8	11	2	2	46.6	0.46	1.3	0.72	5.21		
	250	45.75	42	36	4	3	390	515	1,400	1,900	30228	7228E	161	164	236	234	7	9.5	3	2.5	48.9	0.44	1.4	0.76	8.892		
	250	71.75	68	58	4	3	610	915	1,400	1,900	32228	7528E	161	159	236	238	9	13.5	3	2.5	58.9	0.40	1.5	0.82	14.68		
	300	67.75	62	53	5	4	600	740	1,200	1,600	30328	7328E	167	180	282	272	9	14.5	4	3	57.4	0.36	1.7	0.92	21.7		
	300	77	70	47	5	4	674	865	1,100	1,500	31328	27328E	158	165	282	280	9	30	4	3	94.0	0.83	0.73	0.4	23.3		
300	107.75	102	85	5	4	985	1440	1,200	1,600	32328	7628E	172	177	282	281	9	22.5	4	3	76.4	0.37	1.6	0.88	33.9			
150	225	48	48	36	3	2.5	375	650	1,400	2,000	32030	2007130	168	164	213	216	8	12	2.5	2	49.8	0.46	1.3	0.72	6.2		
	270	49	45	38	4	3	435	570	1,300	1,700	30230	7230E	171	176	256	251	7	11	3	2.5	50.2	0.43	1.4	0.77	10.3		
	270	77	73	60	4	3	595	900	1,300	1,700	32230	7530E	171	177	256	254	8	17	3	2.5	64.0	0.40	1.5	0.82	17.4		
	320	72	65	55	5	4	690	860	1,100	1,500	30330	7330E	177	193	302	292	8	17	4	3	61.4	0.36	1.7	0.92	24.4		
	320	82	75	50	5	4	763	898	980	1,400	31330	27330E	172	179	302	301	9	27	4	3	100.0	0.83	0.73	0.4	28.0		
320	114	108	90	5	4	1,120	1,700	1,100	1,500	32330	7630E	182	191	302	297	8	24	4	3	81.5	0.37	1.6	0.88	41.4			
160	240	51	51	38	3	2.5	425	750	1,300	1,800	32032	2007132	178	175	228	231	8	13	2.5	2	53.0	0.46	1.3	0.72	8.0		
	290	52	48	40	4	3	470	610	1,200	1,600	30232	7232E	181	192	276	272	8	12	3	2.5	55.0	0.43	1.4	0.77	12.9		
	290	84	80	67	4	3	725	1,120	1,200	1,600	32232	7532E	181	190	276	275	10	17	3	2.5	70.1	0.40	1.5	0.82	21.1		
	340	75	68	58	5	4	765	960	1,000	1,400	30332	7332E	187	205	322	311	10	17	4	3	64.6	0.36	1.7	0.92	33.5		
	340	121	114	95	5	4	1,210	1,770	1,000	1,400	32332	7632E	192	202	322	319	10	26	4	3	87.1	0.37	1.6	0.88	47.9		
170	260	57	57	43	3	2.5	505	890	1,200	1,700	32304	2007134	188	187	248	249	10	14	2.5	2	56.6	0.44	1.4	0.74	11.0		
	310	57	52	43	5	4	525	690	1,100	1,500	30234	7234E	197	203	292	288	8	14	4	3	59.8	0.43	1.4	0.77	16.1		
	310	91	86	71	5	4	835	1320	1,100	1,500	32234	7534E	197	201	292	293	10	20	4	3	73.9	0.40	1.5	0.82	28.5		
	360	80	72	62	5	4	845	1,080	950	1,300	30334	7334E	197	221	342	332	10	18	4	3	70.1	0.37	1.6	0.90	33.4		
	360	127	120	100	5	4	1,370	2,050	1,000	1,300	32334	7634E	202	213	342	337	10	27	4	3	91.3	0.37	1.6	0.88	56.8		

B 130

B 131

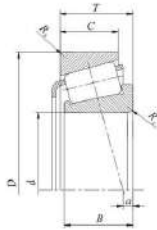
Single row tapered roller bearing



d 180~200 mm

Boundary dimensions (mm)							r (Min)		Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers	Nominal numbers (old)	Mounting dimensions (mm)							Application point position	Constant	Axial load coefficient		Reference mass (kg)
d	D	T	B	C	Inner ring	Outer ring	C _r	C _{0r}	Grease	Oil	d _f Min	d _e Max			D ₂ Max	D ₃ Min	S ₂ Min	S ₃ Min	Inner ring (r _e Min)	Outer ring (r _e Max)	mm a	e		Y _r	Y _c	
180	280	64	64	48	3	2.5	640	1,130	1,200	1,600	32036 30236 32236	2007136 7236E 7536E	198	199	268	267	10	16	2.5	2	60.4	0.42	1.42	0.78	14.1	
	320	57	52	43	5	4	520	695	1,100	1,400			207	213	302	297	9	14	4	3	62.1	0.44	1.4	0.74	18.1	
	320	91	86	71	5	4	875	1380	1,000	1,400			207	211	302	305	10	20	4	3	75.2	0.40	1.5	0.82	28.2	
	380	83	75	64	5	4	935	1,230	940	1,300	30336 32336	7336E 7636E	207	233	362	345	10	19	4	3	72.4	0.36	1.7	0.92	39.7	
	380	134	126	106	5	4	1,520	2,290	950	1,300			212	225	362	353	10	28	4	3	96.6	0.37	1.6	0.88	67	
	190	340	60	55	46	5	4	580	790	1,300	1,300	30238 32238 30338	7238E 7538E 7338E	217	228	322	316	9	14	4	3	62.7	0.40	1.5	0.82	21.7
340		97	92	75	5	4	980	1,550	1,000	1,300	217			223	322	323	11	22	4	3	79.0	0.40	1.5	0.82	35.7	
400		86	78	65	6	5	1,010	1,340	850	1,200	223			248	378	366	11	21	5	4	76.1	0.36	1.7	0.92	46.2	
400		140	132	109	6	5	1,660	2,580	850	1,200	32338	7638E	229	243	378	375	11	31	5	4	102.7	0.73	1.6	0.88	76.6	
200		360	64	58	48	5	4	645	890	900	1,300	30240 32240 30340	7240E 7540E 7340E	227	242	342	334	10	16	4	3	65.5	0.40	1.5	0.82	25.7
	360	104	98	82	5	4	1,090	1,750	950	1,300	227			233	342	338	11	22	4	3	85.0	0.40	1.5	0.82	44.7	
	420	89	80	67	6	5	1,030	1,390	850	1,200	233			253	398	368	11	22	5	4	81.4	0.37	1.6	0.88	53.5	
	420	146	138	115	6	5	1,820	2,870	800	1,100	32340	7640E	239	253	398	392	11	31	5	4	106.7	0.37	1.6	0.88	91	

Single row tapered roller bearing

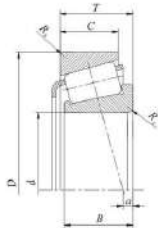


d 15.875~25.400 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)						Reference mass (kg)		
d	D	T	B	C	R ₁ R ₂ (Min)	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring			a ¹⁾	e	Y ₁	Y ₂	d ₁	d ₂	R(Max)	Bearing housing D ₁ D ₂ r(Max)		Cage A ₁ A ₂	
15.875	42.862	14.288	14.288	9.525	1.5 1.5	17.4	17.4	10,000	14,000	11590—11520		1.3	0.70	0.85	0.47	22.5	24.5	1.5	39.5	34.5	1.5	4.5	2.0	0.10
16.000	47.000	21.000	21.000	16.000	1.0 1.0	37.1	39.3	9,800	13,000	HM81649—HM81610		6.1	0.55	1.10	0.60	23.0	27.5	1.0	43.0	37.5	1.0	5.0	3.0	0.18
17.462	39.878	13.843	14.605	10.688	1.3 1.3	22.9	23.4	11,000	14,000	LM11749—LM11710		5.1	0.29	2.00	1.10	21.5	23.0	1.3	37.0	34.0	1.3	4.0	3.0	0.08
19.050	45.237	15.494	16.637	12.065	1.3 1.3	30.6	32.0	9,400	13,000	LM11949—LM11910		5.6	0.30	2.00	1.10	23.5	25.0	1.3	41.5	39.5	1.3	4.5	3.5	0.12
	49.225	19.845	21.539	14.288	1.3 1.3	39.7	40.5	8,900	12,000	09078—09195		9.1	0.27	2.26	1.24	24.0	25.5	1.3	44.5	42.0	1.3	4.5	4.0	0.18
	49.225	21.209	19.050	17.462	1.3 1.5	39.7	40.5	8,900	12,000	09067—09196		7.4	0.27	2.26	1.24	24.0	25.5	1.3	44.5	41.5	1.5	4.5	1.0	0.19
	53.975	22.225	21.839	15.875	1.5 2.3	43.0	42.5	8,400	11,000	21075—21212		5.8	0.59	1.02	0.56	26.0	31.5	1.5	50.0	43.0	2.3	4.5	4.0	0.24
20.000	50.005	13.495	14.260	9.525	1.5 1.0	27.0	29.6	7,900	11,000	07079—07196		2.8	0.40	1.49	0.82	26.0	27.5	1.5	47.0	44.5	5.0	4.0	1.5	0.14
20.625	49.225	19.845	21.539	14.288	1.5 1.3	39.7	40.5	8,000	11,000	09081—09195		9.1	0.27	2.26	1.24	25.5	27.5	1.5	44.5	42.0	1.3	4.5	4.0	0.17
21.430	50.005	17.526	18.288	13.970	1.3 1.3	40.8	43.5	8,600	12,000	M12649—M12160		6.4	0.28	2.16	1.18	25.5	29.0	1.3	46.0	44.0	1.3	4.5	3.5	0.16
21.986	45.237	15.494	16.637	12.065	1.3 1.3	30.2	35.3	8,900	12,000	LM12749—LM12710		5.3	0.31	1.96	1.08	26.0	27.5	1.3	42.0	39.5	1.3	4.0	3.0	0.12
	45.974	15.494	16.637	12.065	1.3 1.3	30.2	35.3	8,900	12,000	LM12749—LM12711		5.3	0.31	1.96	1.08	26.0	27.5	1.3	42.5	40.0	1.3	4.0	3.0	0.12
22.225	50.005	17.526	18.288	13.970	1.3 1.3	40.8	43.5	8,500	11,000	M12648—M12610		6.4	0.28	2.16	1.19	26.5	28.5	1.3	46.0	44.0	1.3	4.5	3.5	0.17
	52.388	19.638	20.168	14.288	1.5 1.5	44.3	48.3	8,000	11,000	1380—1328		7.6	0.29	2.05	1.13	27.0	29.5	1.5	48.5	45.0	1.5	5.0	3.5	0.20
	53.975	19.368	20.168	14.288	1.5 1.5	44.3	48.3	8,000	11,000	1380—1329		7.6	0.29	2.05	1.13	27.0	29.5	1.5	49.0	46.0	1.5	5.0	3.5	0.22
	56.896	19.368	19.837	15.875	1.3 1.3	42.0	45.3	7,600	10,000	1755—1729		6.9	0.31	1.95	1.07	27.5	29.0	1.3	51.0	49.0	1.3	4.0	3.5	0.24
	57.150	22.225	22.225	17.462	0.8 1.5	51.2	55.1	7,600	10,000	1280—1220		6.9	0.35	1.73	0.95	29.0	29.5	0.8	52.0	49.0	1.5	5.5	2.5	0.28
	66.421	23.812	25.433	19.050	1.5 1.3	71.0	81.7	6,500	8,700	2684—2631		9.4	0.25	2.36	1.30	29.0	31.5	1.5	60.0	58.0	1.3	6.0	4.5	0.46
22.606	47.000	15.500	15.500	12.000	1.5 1.0	27.5	33.0	8,700	12,000	LM72489—LM72810		3.0	0.47	1.27	0.70	28.0	30.0	1.5	44.0	40.5	1.0	4.0	2.0	0.12
23.812	50.292	14.224	14.732	10.688	1.5 1.3	27.8	32.9	7,800	10,000	L44640—L44610		3.3	0.37	1.60	0.88	28.5	30.5	1.5	47.0	44.5	1.3	4.0	2.5	0.12
	56.896	19.367	19.837	15.875	0.8 1.3	42.0	45.3	7,600	10,000	1779—1729		6.9	0.31	1.95	1.07	28.5	29.5	0.8	51.0	49.0	1.3	4.0	3.5	0.24
	65.088	22.225	21.463	15.875	1.5 1.5	50.6	55.8	5,600	7,900	23092—23256		2.3	0.73	0.82	0.45	34.5	38.5	1.5	63.0	53.0	1.5	4.0	3.5	0.37
24.981	50.005	13.495	14.260	9.525	1.5 1.0	27.0	29.6	7,900	11,000	07098—07196		2.8	0.40	1.49	0.82	29.0	31.0	1.5	47.0	44.5	1.0	5.0	4.0	0.11
	62.000	16.002	16.566	14.288	1.5 1.5	40.0	44.1	6,700	8,900	17098—17244		3.6	0.38	1.57	0.86	30.5	33.0	1.5	57.0	54.0	1.5	3.5	4.5	0.25
25.000	50.005	13.495	14.260	9.525	1.5 1.0	27.0	29.6	7,900	11,000	07097—07196		2.8	0.40	1.49	0.82	29.0	31.0	1.5	47.0	44.5	1.0	5.0	4.0	0.11
25.400	50.005	13.495	14.260	9.525	1.0 1.0	27.0	29.6	7,900	11,000	07100—07196		2.8	0.40	1.49	0.82	29.5	30.5	1.0	47.0	44.5	1.0	5.0	4.0	0.11

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

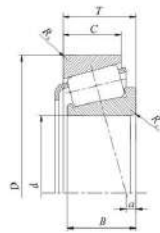


d 25.400~28.575 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)								Reference mass (kg)	
d	D	T	B	C	R ₁ R ₂ (Min)	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring			a ₁ ¹⁾	e	Y ₁	Y ₂	d ₁	d ₂	R(Max)	Bearing housing	D ₁	D ₂		r(Max)
25.400	50.005	13.495	14.260	9.525	1.5	1.0	27.0	29.6	7,900	11,000	07100S—07196		2.8	0.40	1.49	0.82	29.5	31.5	1.5	47.0	44.5	1.0	5.0	4.0	0.11
	50.292	14.224	14.732	10.668	1.3	1.3	27.8	32.9	7,800	10,000	L44643—L44610		3.3	0.37	1.60	0.88	30.0	32.0	1.3	47.0	44.5	1.3	4.0	2.5	0.12
	51.994	15.011	14.260	12.700	1.0	1.3	27.0	29.6	7,900	11,000	07100—07204		2.8	0.40	1.49	0.82	29.5	30.5	1.0	48.0	45.0	1.3	3.0	2.5	0.14
	58.738	19.050	19.355	15.080	1.2	1.2	44.8	50.2	7,000	9,300	1986R—1932		5.8	0.33	1.82	1.00	30.5	32.5	1.2	54.0	52.0	1.2	5.0	3.5	0.24
	59.530	23.368	23.114	18.288	0.8	1.5	53.8	63.3	7,200	9,600	M84249—M84210		5.1	0.55	1.10	0.60	32.5	36.0	0.8	56.0	49.5	1.5	5.5	3.0	0.32
	61.912	19.050	20.638	14.288	0.8	2.0	46.8	53.9	6,400	8,600	15101—15243		5.8	0.35	1.71	0.94	31.5	32.5	0.8	58.0	54.0	2.0	5.0	5.0	0.29
	62.000	19.050	20.638	14.288	3.5	1.3	46.8	53.9	6,400	8,600	15100—15245		5.8	0.35	1.71	0.94	31.5	38.0	3.5	58.0	55.0	1.3	5.0	5.0	0.29
	63.500	19.050	20.638	14.288	0.8	1.5	46.8	53.9	6,400	8,600	15101—15250X		5.8	0.35	1.71	0.94	31.5	32.5	0.8	58.0	54.0	1.5	5.0	5.0	0.29
	64.292	21.433	21.433	16.670	1.5	1.5	55.7	71.7	6,400	8,500	M86643—M86610		3.3	0.55	1.10	0.60	36.5	38.0	1.5	61.0	54.0	1.5	5.0	3.0	0.36
	65.088	22.225	21.463	15.875	1.5	1.5	50.6	55.8	5,600	7,900	23100—23256		2.3	0.73	0.82	0.45	34.5	39.0	1.5	63.0	53.0	1.5	4.0	3.5	0.36
	66.421	23.812	25.433	19.050	1.3	1.3	71.0	81.7	6,500	8,700	2687—2631		9.4	0.25	2.36	1.30	31.5	33.5	1.3	60.0	58.0	1.3	6.0	4.5	0.44
	68.262	22.225	22.225	17.462	0.8	1.5	59.1	70.2	6,000	8,000	02473—02420		5.1	0.42	1.44	0.79	33.5	34.5	0.8	63.0	59.0	1.5	5.5	3.0	0.43
	72.233	25.400	25.400	19.842	0.8	2.3	71.1	94.2	5,700	7,600	HM88630—HM88610		4.6	0.55	1.10	0.60	39.5	39.5	0.8	69.0	60.0	2.3	5.5	4.0	0.59
26.157	61.913	19.050	20.638	14.288	0.8	2.0	46.8	53.9	6,400	8,600	15103—15243		5.8	0.35	1.71	0.94	32.5	33.0	0.8	58.0	55.0	2.0	5.0	5.0	0.29
	61.999	19.050	20.638	14.288	0.8	1.3	46.8	53.9	6,400	8,600	15103—15245		5.8	0.35	1.71	0.94	32.5	33.0	0.8	58.0	55.0	1.3	5.0	5.0	0.29
26.162	66.421	23.812	25.433	19.050	1.5	1.3	71.0	81.7	6,500	8,700	2682—2631		9.4	0.25	2.36	1.30	32.0	34.5	1.5	60.0	58.0	1.3	6.0	4.5	0.43
26.988	50.292	14.244	14.732	10.688	3.5	1.3	27.8	32.9	7,800	10,000	L44649—L44610		3.3	0.37	1.60	0.88	31.0	37.5	3.5	47.0	44.5	1.3	4.0	2.5	0.11
	60.325	19.842	17.462	15.875	3.5	1.5	42.6	50.1	7,000	9,400	15580—15523		5.1	0.35	1.73	0.95	32.0	38.5	3.5	54.0	51.0	1.5	5.0	1.5	0.25
	62.000	19.050	20.638	14.288	0.8	1.3	46.8	53.9	6,400	8,600	15106—15245		5.8	0.35	1.71	0.94	33.0	33.5	0.8	58.0	55.0	1.3	5.0	5.0	0.28
	66.421	23.812	25.433	19.050	1.5	1.3	71.0	81.7	6,500	8,700	2688—2631		9.4	0.25	2.36	1.30	33.0	35.0	1.5	60.0	58.0	1.3	6.0	4.5	0.42
28.575	57.150	17.462	17.462	13.495	3.5	1.5	42.6	50.1	7,000	9,400	15590—15520		5.1	0.35	1.73	0.95	33.5	39.5	3.5	53.0	51.0	1.5	5.0	3.5	0.19
	57.150	19.845	19.355	15.875	3.5	1.5	44.8	50.2	7,000	9,300	1988—1922		5.8	0.33	1.82	1.00	33.5	39.5	3.5	53.5	51.0	1.5	5.0	2.5	0.17
	62.000	19.050	20.638	14.288	3.5	1.3	46.8	53.9	6,400	8,600	15112—15245		5.8	0.35	1.71	0.94	34.0	40.0	3.5	58.0	55.0	1.3	5.0	5.0	0.27
	62.000	19.050	20.638	14.288	0.8	1.3	46.8	53.9	6,400	8,600	15113—15245		5.8	0.35	1.71	0.94	34.0	34.5	0.8	58.0	55.0	1.3	5.0	5.0	0.27
	64.292	21.433	21.433	16.670	1.5	1.5	55.7	71.7	6,400	8,500	M86647—M86610		3.3	0.55	1.10	0.60	38.0	40.0	1.5	61.0	54.0	1.5	5.0	3.0	0.34
	66.421	23.812	25.433	19.050	1.3	1.3	71.0	81.7	6,500	8,700	2689—2631		9.4	0.25	2.36	1.30	34.0	36.0	1.3	60.0	58.0	1.3	6.0	4.5	0.41
	68.262	22.225	22.225	17.462	0.8	1.5	59.1	70.2	6,000	8,000	02474—02420		5.1	0.42	1.77	0.81	36.0	36.5	0.8	63.0	59.0	1.5	5.5	3.0	0.41
	72.000	19.000	18.923	15.875	1.5	1.5	54.4	60.1	5,900	7,800	26112—26283		4.1	0.36	1.67	0.92	35.0	37.0	1.5	65.0	62.0	1.5	4.5	3.0	0.38
	72.626	24.608	24.257	17.462	4.8	1.5	64.6	64.1	6,100	8,600	41125—41286		4.1	0.60	1.00	0.55	36.5	48.0	4.8	68.0	61.0	1.5	6.5	4.0	0.46

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

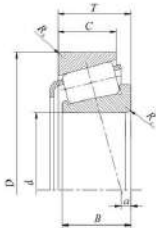


d 28.575~31.750 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers			Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)						Reference mass (kg)		
d	D	T	B	C	R ₁ R ₂ (Min)	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring		a ¹⁾	e	Y ₁	Y ₂	Shaft d _s	R(Max) d _e	Bearing housing D _s	D _e	r(Max) r	Cage A _s	A _e		
28.575	72.626	24.608	24.257	17.462	1.5 1.5	64.6	64.1	6,100	8,600	41126—41286			4.1	0.60	1.00	0.55	36.5	41.5	1.5	68.0	61.0	1.5	6.5	4.0	0.46
	72.626	30.162	29.997	23.812	3.5 3.3	87.7	102.0	5,800	7,700	3192—3120			10.2	0.33	1.80	0.99	37.0	43.5	3.5	67.0	61.0	3.3	6.5	3.0	0.61
	72.626	30.162	29.997	23.812	1.3 3.3	87.7	102.0	5,800	7,400	3198—3120			10.2	0.33	1.80	0.99	37.0	39.0	1.3	67.0	61.0	3.3	6.5	3.0	0.61
	73.025	22.225	22.225	17.462	0.8 3.3	60.8	74.9	5,500	7,400	02872—02820			3.8	0.45	1.32	0.73	37.0	37.5	0.8	68.0	62.0	3.3	5.0	3.0	1.04
	79.375	25.400	24.074	17.462	0.8 1.5	71.9	76.2	5,500	7,300	43112—43312			2	0.67	0.90	0.49	41.5	42.5	0.8	74.0	67.0	1.5	7.0	3.5	0.60
29.000	50.292	14.224	14.732	10.668	3.5 1.3	27.7	36.2	7,600	10,000	L45449—L45410			3.3	0.37	1.62	0.89	33.0	39.5	3.5	48.0	44.5	1.3	4.0	3.5	0.11
29.367	66.421	23.812	25.433	19.050	3.5 1.3	71.0	81.7	6,500	8,700	2690—2631			9.4	0.25	2.36	1.30	35.0	41.0	3.5	60.0	58.0	1.3	6.0	4.5	0.40
29.987	62.000	16.002	16.556	14.288	1.5 1.5	40.0	44.1	6,700	8,900	17118—17244			3.6	0.38	1.57	0.86	34.5	37.0	1.5	57.0	54.0	1.5	3.5	4.5	0.22
	62.000	19.050	20.638	14.288	1.3 1.3	46.8	53.9	6,400	8,600	15117—15245			5.8	0.35	1.71	0.94	35.0	36.5	1.3	58.0	55.0	1.3	5.0	5.0	0.26
30.000	69.012	19.845	19.583	15.875	3.5 1.3	50.6	61.7	5,900	7,800	14117A—14276			4.3	0.38	1.57	0.86	40.0	43.0	3.5	63.0	60.0	1.3	4.5	3.0	0.36
30.112	62.000	19.050	20.638	14.288	0.8 1.3	46.8	53.9	6,400	8,600	15116—15245			5.8	0.35	1.71	0.94	35.5	36.0	0.8	58.0	55.0	1.3	5.0	5.0	0.26
	62.000	16.002	16.566	14.288	1.5 1.5	40.0	44.1	6,700	8,900	17119—17244			3.6	0.38	1.57	0.86	34.5	37.0	1.5	57.0	54.0	1.5	3.5	4.5	0.23
30.162	64.292	21.433	21.433	16.670	1.5 1.5	55.7	71.7	6,400	8,500	M86649—M86610			3.3	0.55	1.10	0.60	38.2	41.0	1.5	61.0	54.0	1.5	5.0	3.0	0.33
	68.262	22.225	22.225	17.462	2.3 1.5	59.6	77.4	6,000	7,900	M88043—M88010			2.8	0.55	1.10	0.60	39.5	43.5	2.3	65.0	58.0	1.5	4.0	3.0	0.41
	62.000	19.050	20.638	14.228	3.5 1.3	46.8	53.9	6,400	8,600	15118—15245			5.8	0.35	1.71	0.94	35.5	41.5	3.5	58.0	55.0	1.3	5.0	5.0	0.26
30.213	62.000	19.050	20.638	14.228	1.5 1.3	46.8	53.9	6,400	8,600	15119—15245			5.8	0.35	1.71	0.94	35.5	37.5	1.5	58.0	55.0	1.3	5.0	5.0	0.26
	62.000	19.050	20.638	14.228	0.8 1.3	46.8	53.9	6,400	8,600	15120—15245			5.8	0.35	1.71	0.94	35.5	36.0	0.8	58.0	55.0	1.3	5.0	5.0	0.26
	69.012	19.845	19.583	15.875	0.8 3.3	50.6	61.7	5,900	7,800	14116—14274			4.3	0.38	1.57	0.86	36.5	38.0	0.8	63.0	59.0	3.3	4.5	3.0	0.35
31.750	58.738	14.684	15.080	10.716	1.0 1.0	29.3	35.0	6,600	8,900	08125—08231			1.3	0.47	1.27	0.69	36.0	37.5	1.0	55.0	52.0	1.0	4.5	3.0	0.16
	59.131	15.875	16.764	11.811	** ¹⁾ 1.3	36.5	44.6	6,600	8,800	LM67048—LM67010			3.0	0.41	1.46	0.80	36.0	42.5	** ²⁾	56.0	52.0	1.3	4.5	3.5	0.17
	62.000	18.161	19.050	14.288	** 1.3	46.8	53.9	6,400	8,600	15123—15245			4.8	0.35	1.71	0.94	36.5	42.5	**	58.0	55.0	1.3	5.0	5.0	0.23
	62.000	19.050	20.638	14.288	3.5 1.3	46.8	53.9	6,400	8,600	15125—15245			5.8	0.35	1.71	0.94	36.5	42.5	3.5	58.0	55.0	1.3	5.0	5.0	0.24
	62.000	19.050	19.050	14.288	0.8 1.3	46.8	53.9	6,400	8,600	15126—15245			5.8	0.35	1.71	0.94	36.5	37.0	0.8	58.0	55.0	1.3	5.0	5.0	0.25
66.421	25.400	25.357	20.638	0.8 3.3	77.5	94.4	6,000	8,000	2580—2520			8.6	0.27	2.19	1.21	37.5	38.5	0.8	62.0	56.9	3.3	5.5	3.0	0.39	
68.262	22.225	22.225	17.462	1.5 1.5	59.6	77.4	6,000	7,900	M88046—M88010			2.8	0.55	1.10	0.60	40.5	43.0	1.5	65.0	58.0	1.5	4.0	3.0	0.40	
68.262	22.225	22.225	17.462	3.5 1.5	59.1	70.2	6,000	8,000	02475—02420			5.1	0.42	1.44	0.79	38.5	44.5	3.5	63.0	59.0	1.5	5.5	3.0	0.37	

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

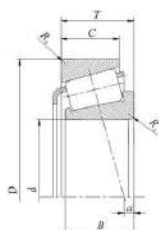
Single row tapered roller bearing



d 31.750~34.980 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)	
d	D	T	B	C	R ₁	R ₂	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring			e ₁	e	Y ₁	Y ₂	Shaft	Bearing housing	Cage				
						(Min)												d ₁	R (Max)	D ₁	D ₂	r (Max)	A ₁	A ₂	
31.750	68.262	22.225	22.225	17.462	0.8	1.5	59.1	70.2	6,000	8,000	02476—02420		5.1	0.42	1.44	0.79	38.5	44.5	0.8	63.0	59.0	1.5	5.5	3.0	0.38
	73.025	22.225	22.225	17.462	3.5	3.3	60.8	74.9	5,600	7,400	02875—02820		3.8	0.45	1.32	0.73	39.5	45.5	3.5	68.0	62.0	3.3	5.0	3.0	0.44
	73.025	22.225	22.225	17.462	0.8	3.3	60.8	74.9	5,600	7,400	02876—02820		3.8	0.45	1.32	0.73	39.5	40.0	0.8	68.0	62.0	3.3	5.0	3.0	0.45
	73.025	29.370	27.783	23.020	1.3	3.3	80.6	111	5,600	7,500	HM88542—HM88510		5.6	0.55	1.10	0.60	42.5	45.5	1.3	70.0	59.0	3.3	6.5	2.0	0.61
	73.812	29.370	27.783	23.020	1.3	0.8	80.6	111	5,600	7,500	HM88542—HM88511		5.6	0.55	1.10	0.60	42.5	45.5	1.3	70.0	62.0	0.8	6.5	2.0	0.62
	79.375	25.400	24.074	17.462	1.5	1.5	71.9	76.2	5,500	7,300	43125—43312		2.0	0.67	0.90	0.49	41.5	44.0	1.5	74.0	67.0	1.5	7.0	3.5	0.57
33.338	68.262	22.225	22.225	17.462	0.8	1.5	59.6	77.4	6,020	7,900	M88048—M88010		2.8	0.55	1.10	0.60	41.0	42.5	0.8	65.0	58.0	1.5	4.0	3.0	0.37
	72.000	19.000	18.923	15.875	3.5	1.5	54.4	60.1	5,900	7,800	26131—26283		4.2	0.36	1.67	0.92	38.5	44.5	3.5	65.0	62.0	1.5	4.5	3.0	0.34
	73.025	29.370	27.783	23.020	0.8	3.3	80.6	111	5,600	7,500	HM88547—HM88510		5.6	0.55	1.10	0.60	42.6	45.5	0.8	70.0	59.0	3.3	6.5	2.0	0.59
	76.200	29.370	28.575	23.020	0.8	3.3	86.2	119	5,400	7,200	HM89443—HM89410		5.6	0.55	1.10	0.60	44.5	46.5	0.8	73.0	62.0	3.3	5.5	3.0	0.66
	79.375	25.400	24.074	17.462	3.5	1.5	71.9	76.2	5,500	7,300	43131—43312		2.0	0.67	0.90	0.49	42.0	51.0	3.5	74.0	67.0	1.5	7.0	3.5	0.55
	79.375	25.400	24.074	17.462	2.0	1.5	71.9	76.2	5,500	7,300	43132—43312		2.0	0.67	0.90	0.49	42.0	48.0	2.0	74.0	67.0	1.5	7.0	3.5	0.56
34.980	88.501	25.400	23.698	17.462	2.0	1.5	77.9	88.6	3,900	5,500	43131—43318		2.3	0.78	0.77	0.42	48.0	51.0	2.0	84.0	75.0	1.5	5.5	4.0	0.76
	65.088	18.034	18.288	13.970	** 2)	1.3	50.5	63.1	6,000	8,000	LM48548—LM48510		3.6	0.38	1.59	0.88	40.0	46.0	** 2)	61.0	58.0	1.3	4.5	3.0	0.26
	69.012	19.845	19.583	15.875	1.5	1.3	50.6	61.7	5,900	7,800	14137A—14276		4.3	0.38	1.57	0.86	40.0	42.0	1.5	63.0	60.0	1.3	4.5	3.0	0.32
	72.233	25.400	25.400	19.842	2.3	2.3	71.1	94.2	5,700	7,600	HM88649—HM88610		4.6	0.55	1.10	0.6	42.5	48.5	2.3	69.0	60.0	2.3	5.5	4.0	0.50
	72.238	20.638	20.638	15.875	3.5	1.3	52.4	65.8	5,600	7,400	16137—16284		4.1	0.40	1.49	0.82	40.5	47.0	3.5	67.0	63.0	1.3	5.5	3.0	0.38
	73.025	22.225	22.225	17.462	3.5	3.3	60.8	74.9	5,500	7,400	02877—02820		3.8	0.45	1.32	0.73	42.0	48.5	3.5	68.0	62.0	3.3	5.0	3.0	0.41
35.980	73.025	22.225	22.225	17.462	0.8	3.3	60.8	74.9	5,500	7,400	02878—02820		3.8	0.45	1.32	0.73	42.0	42.5	0.8	68.0	62.0	3.3	5.0	3.0	0.42
	73.025	23.812	24.608	19.050	1.5	0.8	78.8	97.4	5,600	7,400	25877—25821		8.1	0.29	2.07	1.14	40.5	43.0	1.5	68.0	65.0	0.8	5.5	4.5	0.46
	76.200	23.812	25.654	19.050	5.0	3.3	80.4	102	5,300	7,000	2786—2720		8.1	0.30	1.98	0.82	41.0	51.0	5.0	70.0	66.0	3.3	5.0	5.0	0.52
	76.200	29.370	28.575	23.812	3.5	3.3	87.7	107	5,400	7,200	31594—31520		7.6	0.40	1.49	1.09	43.5	46.0	1.5	72.0	64.0	3.3	6.0	2.5	0.61
	79.375	29.370	29.711	23.812	3.5	3.3	96.9	119	5,400	7,200	3478—3420		8.6	0.37	1.64	0.82	43.5	50.0	3.5	74.0	67.0	3.3	6.0	3.5	0.70
	80.035	21.433	20.940	15.875	1.5	1.5	58.8	68.9	5,200	6,900	28137—28317		4.8	0.40	1.49	0.90	41.0	43.5	1.5	73.0	69.0	1.5	4.5	3.0	0.50
36.980	95.250	27.782	29.900	22.225	0.8	2.3	118	144	4,500	5,900	449—432		9.1	0.28	2.11	1.16	43.5	44.0	0.8	87.0	83.0	2.3	6.0	5.0	1.07
	59.131	15.875	16.764	11.938	** 2)	1.3	35.5	49.3	6,400	8,500	L68149—L68110		2.5	0.42	1.44	0.79	39.0	45.5	** 2)	56.0	53.0	1.3	4.0	3.0	0.18
37.980	59.975	15.875	16.764	11.938	** 2)	1.3	35.5	49.3	6,400	8,500	L68149—L68111		2.5	0.42	1.44	0.79	39.0	45.5	** 2)	56.0	53.0	1.3	4.0	3.0	0.18

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

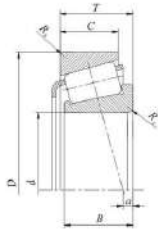


Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)		
<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>C</i>	<i>R_e</i>	<i>R_s</i>	<i>C₁</i>	<i>C₂</i>	Grease	Oil	Inner Ring	Outer Ring			<i>y</i>	<i>e</i>	<i>Y₁</i>	<i>Y₂</i>	Shaft			Bearing housing			Cage	
					(Min)													<i>d_e</i>	<i>d_i</i>	<i>R</i> (Max)	<i>D_i</i>	<i>D_e</i>	<i>r</i> (Max)	<i>A₁</i>	<i>A₂</i>	
35.000	79.375	23.812	25.400	19.050	0.8	0.8	84.3	110	5,000	6,700	26883	26822	7.4	0.32	1.88	1.04	42.0	42.5	0.8	74.0	71.0	0.8	5.0	4.5		0.60
	80.000	21.000	22.403	17.826	0.8	1.3	73.6	83.4	4,900	6,000	339	332	6.2	0.27	2.20	1.21	41.5	42.5	0.8	75.0	73.0	1.3	5.0	4.5		0.53
35.717	72.233	25.400	25.400	19.842	3.5	2.3	71.1	94.2	5,700	7,600	HM88648	HM88610	4.6	0.55	1.10	0.60	43.0	52.0	3.5	69.0	60.0	2.3	5.5	4.0		0.48
36.487	73.025	23.812	24.608	19.050	1.5	0.8	78.8	97.4	5,600	7,400	25880	25821	8.1	0.29	2.07	1.14	42.0	44.0	1.5	68.0	65.0	0.8	5.5	4.5		0.45
	76.200	23.812	25.654	19.050	1.5	3.3	80.4	102	5,400	7,200	2780	2720	8.1	0.3	1.98	1.09	42.5	45.5	1.5	70.0	66.0	3.3	5.0	5.0		0.52
36.512	76.200	29.370	28.575	23.020	3.5	0.8	86.2	119	5,400	7,200	HM89449	HM89441	5.6	0.55	1.10	0.60	44.5	54.0	3.5	73.0	65.0	0.8	5.5	3.0		0.62
	79.375	23.812	25.400	19.050	0.8	0.8	84.3	110	5,000	6,700	26877	26822	7.4	0.32	1.88	1.04	43.0	44.0	0.8	74.0	71.0	0.8	5.0	4.5		0.59
	79.375	29.370	29.771	23.812	0.8	3.3	96.9	119	5,200	6,900	3479	3420	8.6	0.37	1.64	0.90	44.5	45.5	0.8	74.0	67.0	3.3	6.0	3.5		0.68
	85.725	30.162	30.162	23.812	0.8	3.3	115	148	4,800	6,400	3678	3820	8.1	0.40	1.49	0.82	47.0	48.0	0.8	81.0	73.0	3.3	7.0	4.5		0.89
	88.500	25.400	23.698	17.462	2.3	1.5	77.9	88.6	3,900	5,500	44143	44348	-2.3	0.78	0.77	0.42	50.0	54.0	2.3	84.0	75.0	1.5	5.5	4.0		0.72
38.000	63.000	17.000	17.000	13.500	** R1	1.3	39.8	55.0	6,000	8,000	JL69349	JL69310	2.3	0.42	1.44	0.79	42.5	49.0	** R1	60.0	56.0	1.3	4.0	3.0		0.19
38.100	63.000	12.700	11.908	9.525	1.5	0.8	25.1	33.0	5,800	7,700	13889	13830	0.8	0.35	1.73	0.95	42.5	45.0	1.5	60.0	59.0	0.8	4.0	2.0		0.14
	65.088	12.700	11.908	9.525	1.5	0.8	25.1	33.0	5,800	7,700	13889	13836	0.8	0.35	1.73	0.95	42.5	45.0	1.5	61.0	59.0	0.8	4.0	2.0		0.15
	65.088	18.034	18.288	13.970	** R1	1.3	45.0	60.3	5,800	7,800	LM29748	LM29710	4.1	0.33	1.80	0.99	42.5	49.0	** R1	62.0	59.0	1.3	4.5	3.0		0.22
	65.088	19.812	18.288	15.748	2.3	1.3	45.0	60.3	5,800	7,800	LM29749	LM29711	4.1	0.33	1.80	0.99	42.5									

Remarks:

1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

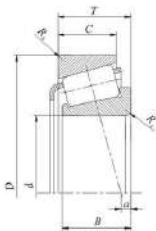


d 38.100-41.275 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)								Reference mass (kg)
d	D	T	B	C	R ₁ , R ₂ (Min)	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring	a ¹⁾	e	Y ₁	Y ₂	d ₁	d ₂	R (Max)	D ₁	D ₂	r (Max)	A ₁	A ₂	
38.100	82.931	23.812	25.400	19.050	0.8 0.8	83.8	111	4,800	6,300	25572-25520		6.4	0.33	1.79	0.99	46.0	46.0	0.8	77.0	74.0	0.8	5.5	4.5	0.64
	88.500	25.400	23.698	17.462	2.3 1.5	77.9	88.6	3,900	5,500	44150-44348		-2.3	0.78	0.77	0.42	51.0	55.0	2.3	84.0	75.0	1.5	5.5	4.0	0.71
	88.500	26.988	29.083	22.225	3.5 1.5	107	124	4,900	6,500	418-414		9.7	0.26	2.28	1.25	44.5	51.0	3.5	80.0	77.0	1.5	6.0	5.0	0.82
	90.488	39.688	40.386	38.338	1.5 3.3	155	204	4,500	6,000	4375-4335		15	0.28	2.11	1.16	48.5	51.0	1.5	85.0	77.0	3.3	6.5	3.5	1.30
	95.250	30.958	28.300	20.638	1.5 0.8	92.8	104	3,700	5,200	53150-53375		0.3	0.74	0.81	0.45	53.0	55.0	1.5	89.0	81.0	0.8	7.0	2.0	1.04
	101.60	34.925	36.068	26.988	3.5 3.3	152	192	4,000	5,300	525-522		12.7	0.29	2.10	1.16	48.0	54.0	3.5	95.0	89.0	3.3	8.0	5.5	1.47
39.688	73.025	16.667	17.462	12.700	0.8 1.5	47.0	58.1	5,200	6,900	18587-18250		2.8	0.35	1.71	0.94	45.0	45.5	0.8	69.0	66.0	1.5	5.5	4.0	0.29
	76.200	23.812	25.654	19.050	3.5 3.3	80.4	102	5,400	7,200	2789-2720		8.1	0.30	1.98	1.09	45.0	52.0	3.5	70.0	66.0	3.3	5.0	5.0	0.47
	80.167	29.370	30.391	23.812	0.8 3.3	106	129	5,000	6,700	3886-3320		10.9	0.27	2.20	1.21	45.5	46.5	0.8	75.0	70.0	3.3	6.0	4.5	0.65
	84.138	29.370	30.391	23.812	0.8 3.3	106	129	5,000	6,700	3382-3328		10.9	0.27	2.20	1.21	45.0	52.0	0.8	76.0	72.0	3.3	6.0	4.5	0.75
	88.500	25.400	23.698	17.462	3.5 1.5	77.9	88.6	3,900	5,500	44158-44348		-2.3	0.78	0.77	0.42	51.0	58.0	3.5	84.0	75.0	1.5	5.5	4.0	0.68
40.000	76.200	20.638	20.940	15.507	1.5 1.3	58.8	68.9	5,300	7,000	28158-28300		4.8	0.40	1.49	0.82	45.0	47.5	1.5	71.0	68.0	1.3	4.5	4.0	0.38
	80.000	21.000	22.403	17.826	3.5 1.3	73.6	83.4	4,900	6,600	344-332		6.4	0.27	2.20	1.21	45.5	52.0	3.5	75.0	73.0	1.3	5.0	4.5	0.47
	80.000	21.000	22.403	17.826	0.8 1.3	73.6	83.4	4,900	6,600	344A-332		6.2	0.27	2.20	1.21	45.5	46.0	0.8	75.0	73.0	1.3	5.0	4.5	0.47
	85.000	20.638	21.692	17.462	0.8 1.3	75.8	89.2	4,600	6,200	350A-354A		4.8	0.31	1.96	1.08	46.5	47.5	0.8	80.0	77.0	1.3	5.0	5.0	0.55
	88.500	26.988	29.083	22.225	3.5 1.5	108	124	4,900	6,500	420-414		9.7	0.26	2.28	1.25	46.0	52.0	3.5	80.0	77.0	1.5	6.0	5.0	0.79
	107.95	36.512	36.957	28.575	3.3 3.3	159	206	3,800	5,100	543-532X		12.2	0.30	2.02	1.11	50.0	57.0	3.5	100	94.0	3.3	8.0	4.0	1.74
40.483	82.550	29.370	28.575	23.020	3.5 3.3	95.1	130	4,900	6,600	HM801349-HM801310		4.8	0.55	1.10	0.6	49.0	58.0	3.5	78.0	68.0	3.3	6.0	3.0	0.73
41.275	73.025	16.667	17.460	12.700	3.5 1.5	47.0	58.1	5,200	6,900	18590-18520		2.8	0.35	1.71	0.94	46.0	53.0	3.5	69.0	66.0	1.5	5.5	4.0	0.27
	73.431	19.558	19.812	14.732	3.5 0.8	58.4	74.2	5,200	7,000	LM501349-LM501310		3.3	0.40	1.50	0.83	46.5	53.0	3.5	70.0	67.0	0.8	5.5	3.5	0.32
	73.431	21.430	19.812	16.604	3.5 0.8	58.4	74.2	5,200	7,000	LM501349-LM501314		3.3	0.40	1.50	0.83	46.5	53.0	3.5	70.0	66.0	0.8	5.5	1.5	0.34
	76.200	18.009	17.384	14.288	1.5 1.5	44.5	55.1	5,200	6,900	11162-11300		0.8	0.49	1.23	0.68	46.5	49.0	1.5	71.0	67.0	1.5	3.5	3.0	0.33
	76.200	22.225	23.020	17.462	3.5 0.8	69.9	89.2	5,200	6,900	24780-24720		4.8	0.39	1.53	0.84	47.0	54.0	3.5	72.0	68.0	0.8	5.5	3.5	0.41
	80.000	21.000	22.403	17.826	0.8 1.3	73.6	83.4	4,900	6,600	336-332		6.2	0.27	2.20	1.21	46.0	47.0	0.8	75.0	73.0	1.3	5.0	4.5	0.46
	80.000	21.000	22.403	17.826	3.5 1.3	73.6	83.4	4,900	6,600	342-332		6.2	0.27	2.20	1.21	46.0	53.0	3.5	75.0	73.0	1.3	5.0	4.5	0.45
	82.550	26.543	25.654	20.193	3.5 3.3	84.9	112	4,900	6,500	M802048-M802011		3.0	0.55	1.10	0.60	51.0	57.0	3.5	79.0	70.0	3.3	5.5	3.0	0.62
	85.725	30.162	30.162	23.812	3.5 1.3	115	148	4,800	6,400	3877-3821		8.1	0.40	1.49	0.82	50.0	57.0	3.5	81.0	75.0	1.3	7.0	4.5	0.83
	87.312	30.162	30.886	23.812	0.8 3.3	105	134	4,800	6,400	3576-3525		10.2	0.31	1.96	1.08	48.0	49.0	0.8	81.0	75.0	3.3	6.5	3.5	0.82

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

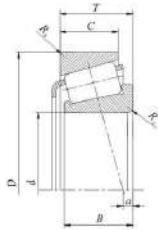


d 41.275~44.450 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)		
<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>C</i>	<i>R_{L1}</i> (Min)	<i>R_{L2}</i>	<i>C₁₀</i>	<i>C₀₁</i>	Grease	Oil	Inner Ring			Outer Ring	<i>a</i> ^{*)}	<i>e</i>	<i>Y₀</i>	<i>Y₁</i>	<i>d_s</i>	<i>d_c</i>	<i>R</i> (Max)	Bearing housing			Cage
																					<i>D_s</i>	<i>D_c</i>	<i>r</i> (Max)	<i>A_s</i>	<i>A_c</i>
41.275	88.501	26.988	29.083	22.225	3.5	1.5	107	124	4,600	6,200	419—414		9.7	0.26	2.28	1.25	47.0	54.0	3.5	80.0	77.0	1.5	6.0	5.0	0.77
	88.900	20.638	22.225	16.513	3.5	1.3	79.5	95.8	4,900	6,500	365A—362A		4.3	0.32	1.88	1.03	48.5	55.0	3.5	84.0	81.0	1.3	5.5	5.0	0.62
	88.900	30.162	29.370	23.020	3.5	3.3	105	144	4,400	5,800	HM803146—HM803110		4.3	0.55	1.10	0.60	53.0	60.0	3.5	85.0	74.0	3.3	7.5	4.0	0.85
	88.900	30.162	29.370	23.020	3.5	0.8	105	144	4,600	6,100	HM803146—HM803111		4.3	0.55	1.10	0.60	53.0	60.0	3.5	85.0	76.0	0.8	7.5	4.0	0.90
	90.488	39.688	40.386	33.338	3.5	3.3	155	204	4,500	6,000	4388—4335		15.0	0.28	2.11	1.16	51.0	57.0	3.5	85.0	77.0	3.3	6.5	3.5	1.23
	93.662	31.750	31.750	26.195	0.8	3.3	120	158	4,400	5,800	46162—46368		7.9	0.40	1.49	0.82	51.0	52.0	0.8	87.0	79.0	3.3	5.5	3.5	1.07
	95.250	30.162	29.370	23.020	3.5	3.3	115	157	3,300	4,400	HM804840—HM804810		3.8	0.55	1.10	0.60	54.0	61.0	3.5	91.0	81.0	3.3	7.0	4.5	1.06
	104.775	36.513	36.512	28.575	1.5	3.3	159	223	3,800	5,100	HM807035—HM807010		7.4	0.49	1.23	0.68	57.0	60.0	1.5	100	89.0	3.3	7.0	4.0	1.69
42.070	90.488	39.688	40.386	33.338	3.5	3.3	155	204	4,500	6,000	4395—4335		15.0	0.28	2.11	1.16	51.0	58.0	3.5	85.0	77.0	3.3	6.5	3.5	1.21
42.802	76.992	17.462	17.145	11.908	1.5	1.5	45.9	58.1	5,000	6,600	12168—12303		0	0.51	1.19	0.65	48.5	51.0	1.5	73.0	68.0	1.5	6.0	3.5	0.31
42.875	79.375	23.812	25.400	19.050	3.5	0.8	84.3	110	5,000	6,700	26884—26822		7.4	0.32	1.88	1.04	48.5	55.0	3.5	74.0	71.0	0.8	5.0	4.5	0.50
	82.931	23.876	25.400	19.050	3.5	0.8	83.8	111	4,800	6,300	25577—25520		6.4	0.33	1.79	0.99	49.0	55.0	3.5	77.0	74.0	0.8	5.5	4.5	0.58
44.450	73.025	18.258	18.258	15.083	1.5	1.5	52.8	73.8	5,100	6,800	L102849—L102810		3.8	0.32	1.88	1.04	49.0	51.0	1.5	69.0	66.0	1.5	4.5	3.0	0.30
	79.992	17.462	17.145	11.908	1.5	1.5	45.9	58.1	5,000	6,600	12175—12303		0	0.51	1.19	0.65	49.5	52.0	1.5	73.0	68.0	1.5	6.0	3.5	0.30
	79.375	17.462	17.462	13.495	2.8	1.5	48.2	61.3	4,800	6,400	18685—18620		2	0.37	1.60	0.88	49.5	54.0	2.8	74.0	71.0	1.5	5.0	3.5	0.34
	82.931	23.812	25.400	19.050	5.0	0.8	83.8	111	4,800	6,300	25582—25520		6.4	0.33	1.79	0.99	50.0	60.0	5.0	77.0	74.0	0.8	5.5	4.5	0.55
	84.138	30.162	30.886	23.812	3.5	3.3	105	134	4,600	6,200	3578—3520		10.2	0.31	1.96	1.08	51.0	57.0	3.5	80.0	74.0	3.3	6.5	3.5	0.68
	85.000	20.638	21.692	17.462	2.3	1.3	75.8	89.2	4,600	6,200	355—354A		4.8	0.31	1.96	1.08	50.0	54.0	2.3	80.0	77.0	1.3	5.0	5.0	0.50
	85.000	20.638	21.692	17.462	0.8	1.3	75.8	89.2	4,600	6,200	355A—355A		4.8	0.31	1.96	1.08	50.0	51.0	0.8	80.0	77.0	1.3	5.0	5.0	0.50
	88.900	30.162	29.370	23.020	3.5	3.3	105	144	4,600	6,100	HM803149—HM803110		4.3	0.55	1.10	0.60	53.4	62.0	3.5	85.0	74.0	3.3	7.5	4.0	0.84
	93.662	31.750	31.750	26.195	0.8	3.3	120	158	4,400	5,900	46175—46368		7.8	0.40	1.49	0.92	54.0	55.0	0.8	87.0	79.0	3.3	5.5	3.5	1.01
	93.662	31.750	31.750	25.400	3.5	3.3	126	156	4,400	5,800	49175—49368		9.1	0.36	1.67	0.82	53.0	59.0	3.5	87.0	82.0	3.3	5.5	3.0	1.00
	93.662	31.750	31.750	26.195	3.5	3.3	120	158	4,400	5,800	46176—46368		7.8	0.40	1.49	0.82	54.0	60.0	3.5	87.0	79.0	3.3	5.5	3.5	1.01
	95.250	27.783	28.575	22.225	0.8	2.3	120	161	4,100	5,400	33885—33821		7.6	0.33	1.82	1.00	53.0	53.0	0.8	90.0	85.0	2.3	6.5	5.5	0.96
	95.250	27.783	29.000	22.225	3.5	0.8	118	144	4,500	5,900	438—432A		9.1	0.28	2.11	1.16	51.0	57.0	3.5	87.0	84.0	0.8	6.0	5.0	0.93
	95.250	30.162	29.370	23.020	0.8	3.3	115	157	3,300	4,400	HM804842—HM804810		3.8	0.55	1.10	0.6	57.0	57.0	0.8	91.0	81.0	3.3	7.0	4.5	1.02
	95.250	30.162	29.370	23.020	3.5	3.3	115	157	3,700	5,200	HM804843—HM804810		3.8	0.55	1.10	0.6	57.0	63.0	3.5	91.0	81.0	3.3	7.0	4.5	1.01

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

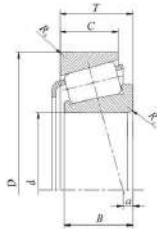


d 44.450~47.625 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)								Reference mass (kg)
d	D	T	B	C	R ₁ , R ₂ (Min)	C ₁	C ₂	Grease	Oil	Inner Ring	Outer Ring			Y ₁	Y ₂	d ₁	d ₂	R (Max)	D ₁	D ₂	r (Max)	A ₁	A ₂	
44.450	95.250	30.958	28.300	20.638	3.5 0.8	92.8	104	3,700	5,200	53177—53375		0.3	0.74	0.81	0.45	53.0	63.0	3.5	89.0	81.0	0.8	7.0	2.0	0.94
	95.250	30.958	28.300	20.638	2.0 0.8	92.8	104	3,700	5,200	53178—53375		0.3	0.74	0.81	0.45	53.0	60.0	2.0	89.0	81.0	0.8	7.0	2.0	0.94
	95.250	30.958	28.575	22.225	3.5 0.8	107	132	3,700	5,100	HM903249—HM903210		-0.5	0.74	0.81	0.45	54.0	65.0	3.5	91.0	81.0	0.8	7.0	2.0	1.00
	98.425	31.750	31.750	25.400	0.8 3.3	123	155	3,900	5,200	49576—49520		7.1	0.40	1.50	0.82	54.0	55.0	0.8	96.0	88.0	3.3	6.5	4.0	1.23
	98.425	30.958	28.300	20.638	1.3 0.8	92.8	104	3,700	5,200	53176—53387		0.3	0.74	0.81	0.45	53.0	59.0	1.3	91.0	82.0	0.8	7.0	2.0	1.03
	101.6	34.926	30.068	26.988	3.5 3.3	152	192	4,000	5,300	527—522		12.7	0.29	2.10	1.16	53.0	59.0	3.5	95.0	89.0	3.3	8.0	5.5	1.35
	104.775	36.512	36.512	28.575	3.5 3.3	159	223	3,800	5,100	HM807040—HM807010		7.4	0.49	1.23	0.68	59.0	66.0	3.5	100	89.0	3.3	7.0	4.0	1.62
	111.125	30.162	26.909	20.638	3.5 3.3	118	161	3,100	4,300	55175C—55437		-7.6	0.88	0.68	0.37	64.0	70.0	3.5	105	92.0	3.3	6.0	3.5	1.44
	111.125	30.162	26.909	20.638	0.8 3.3	118	161	3,100	4,300	55176C—55437		-7.6	0.88	0.68	0.37	64.0	65.0	0.8	105	92.0	3.3	6.0	3.5	1.44
	111.125	38.100	36.957	30.162	3.5 3.3	159	206	3,800	5,100	535—532A		12.2	0.3	2.02	1.11	54.0	60.0	3.5	100	95.0	3.3	8.0	2.5	1.84
44.983	93.264	30.162	30.302	23.812	3.5 3.3	113	153	4,200	5,500	3776—3720		8.1	0.34	1.77	0.97	53.0	59.0	3.5	88.0	82.0	3.3	7.0	3.5	0.94
44.988	95.250	30.958	28.575	22.225	3.5 0.8	107	132	3,700	5,100	HM903248—HM903210		-0.5	0.74	0.81	0.45	54.0	66.0	3.5	91.0	81.0	0.8	7.0	2.0	0.99
45.000	85.000	20.638	21.692	17.462	1.5 1.3	75.8	89.2	4,600	6,200	358—354A		4.8	0.31	1.96	1.08	50.0	53.0	1.5	80.0	77.0	1.3	5.0	5.0	0.50
45.242	73.431	19.558	19.812	15.748	3.5 0.8	56.9	81.8	5,100	6,700	LM102949—LM102910		4.6	0.31	1.97	1.08	50.0	56.0	3.5	70.0	68.0	0.8	4.5	3.0	0.31
	77.788	19.842	19.842	15.080	3.5 0.8	59.6	77.9	4,900	6,500	LM603049—LM603011		2.3	0.43	1.41	0.77	50.0	57.0	3.5	74.0	71.0	0.8	5.0	3.5	0.36
	77.788	21.430	19.842	16.667	3.5 0.8	59.6	77.9	4,900	6,500	LM603049—LM603012		2.3	0.43	1.41	1.08	50.0	57.0	3.5	74.0	70.0	0.8	5.0	2.0	0.37
	80.000	19.842	19.842	15.080	3.5 0.8	59.6	77.9	4,900	6,500	LM603049—LM603014		2.3	0.43	1.41	0.77	51.0	58.0	3.5	75.0	71.0	0.8	5.0	3.5	0.39
45.618	85.000	23.812	25.400	19.050	3.5 2.3	83.8	111	4,800	6,300	25590—25526		6.4	0.33	1.79	0.99	51.0	58.0	3.5	78.0	74.0	2.3	5.5	4.5	0.57
45.987	74.976	18.000	18.000	14.000	2.3 1.5	52.6	75.4	5,000	6,600	LM503349—LM503310		2.0	0.40	1.49	0.82	51.0	55.0	2.3	71.0	67.0	1.5	5.0	3.5	0.30
46.038	79.375	17.462	17.462	13.495	2.8 1.5	48.2	61.3	4,800	6,400	18690—18620		2.0	0.37	1.60	0.88	51.0	56.0	2.8	74.0	71.0	1.5	5.0	3.5	0.33
	85.000	20.638	21.692	17.462	3.5 1.3	75.8	89.2	4,800	6,200	359A—354A		4.8	0.31	1.96	1.08	51.0	57.0	3.5	80.0	77.0	1.3	5.0	5.0	0.48
	85.000	20.638	21.692	17.462	2.3 1.3	75.8	89.2	4,800	6,200	359S—354A		4.8	0.31	1.96	1.08	51.0	55.0	2.3	80.0	77.0	1.3	5.0	5.0	0.48
	85.000	25.400	25.608	20.638	3.5 1.3	86.4	117	4,800	6,100	2984—2924		6.4	0.35	1.73	0.95	52.0	58.0	3.5	80.0	76.0	1.3	5.0	5.0	0.60
47.625	88.900	20.638	22.225	16.513	3.5 1.3	79.5	95.8	4,400	5,800	369A—362A		4.3	0.32	1.88	1.03	53.0	60.0	3.5	84.0	81.0	1.3	5.0	5.0	0.54
	88.900	25.400	25.400	19.050	3.5 3.3	91.3	116	4,400	5,900	M804049—M804010		1.8	0.55	1.10	0.6	56.0	63.0	3.5	85.0	77.0	3.3	6.5	4.5	0.65

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

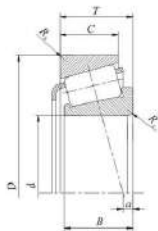


d 47.625~50.800 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)	
d	D	T	B	C	R ₁ R ₂ (Min)	C ₁ C ₂	Grease	Oil	Inner Ring	Outer Ring	Y ₁ Y ₂			Y ₃ Y ₄	d ₁ d ₂ R(Max)	D ₁ D ₂ r(Max)	A ₁ A ₂							
47.625	95.250	30.162	29.370	23.020	3.5 3.3	115 157	3,300	4,400	HM804046—HM804810	386A—382A	12.7	3.8	0.55	1.10	0.6	57.0	66.0	3.5	91.0	81.0	3.3	7.0	4.5	0.96
	96.838	21.000	21.946	15.875	0.8 0.8	84.2 108	3,900	5,200				3.0	0.35	1.69	0.93	55.0	56.0	0.8	92.0	89.0	0.8	6.0	5.5	0.72
	101.600	34.925	36.068	26.988	3.5 3.3	152 192	4,000	5,300				12.7	0.29	2.10	1.16	55.0	62.0	3.5	95.0	89.0	3.3	8.0	5.5	1.29
	104.775	30.162	29.317	24.605	4.8 3.3	126 166	3,700	4,900	463—453X	467—453X	8.1	7.1	0.34	1.79	0.98	56.0	65.0	4.8	98.0	92.0	3.3	5.5	3.0	1.21
	104.775	30.162	29.317	24.605	0.8 3.3	126 166	3,700	4,900				7.1	0.34	1.79	0.98	56.0	57.0	0.8	98.0	92.0	3.3	5.5	3.0	1.22
	104.775	30.162	30.958	23.812	3.5 3.3	142 189	3,700	4,900				8.1	0.33	1.8	0.99	57.0	63.0	3.5	99.0	93.0	3.3	6.5	5.0	1.26
	111.125	30.162	26.909	20.638	3.5 3.3	118 161	3,200	4,400	55187C—55437	55187C—55443	-7.6	0.88	0.68	0.37	62.0	69.0	3.5	105.0	92.0	3.3	6.0	3.5	1.39	
	112.712	30.162	26.909	20.638	3.5 3.3	118 161	3,100	4,300				-7.6	0.88	0.68	0.37	62.0	69.0	3.5	106.0	92.0	3.3	6.0	3.5	1.47
	48.412	95.250	30.162	29.370	23.020	2.3 3.3	115 157	3,300	4,400	HM804848—HM804810	HM804849—HM804810	3.8	0.55	1.10	0.6	57.0	63.0	2.3	91.0	81.0	3.3	7.0	4.5	0.95
95.250		30.162	29.370	23.020	3.5 3.3	115 157	3,300	4,400	3.8				0.55	1.10	0.6	57.0	63.0	3.5	91.0	83.0	3.3	7.0	4.5	0.95
49.212	88.900	20.638	22.225	16.513	0.8 1.3	79.5 95.8	4,400	5,800	365S—362A	HM807044—HM807010	12.4	4.3	0.32	1.88	1.03	54.0	55.0	0.8	84.0	81.0	1.3	5.5	5.0	0.53
	104.775	36.512	36.512	28.575	3.5 3.3	159 223	3,800	5,100				7.4	0.49	1.23	0.68	63.0	69.0	3.5	100.0	89.0	3.3	7.0	4.0	1.52
	114.3	44.500	44.500	34.925	3.5 3.3	207 256	3,800	5,000	65390—65320	HH506348—HH506310	13.5	0.43	1.39	0.77	60.0	70.0	3.5	107.0	97.0	3.3	9.0	4.0	2.18	
	114.3	44.500	44.500	36.068	3.5 3.3	228 290	3,700	5,000				0.40	1.49	0.82	61.0	71.0	3.5	107.0	97.0	3.3	9.5	6.0	2.34	
49.987	92.075	24.608	25.400	19.845	2.3 0.8	91.6 130	4,200	5,600	28579—28521	4.8	0.38	1.59	0.87	56.0	60.0	2.3	87.0	83.0	0.8	5.0	3.5	0.71		
50.000	82.000	21.500	21.500	17.000	3.0 0.5	75.2 104	4,500	6,000	JLM104948—JLM104910	365—362A	4.3	5.3	0.31	1.97	1.08	55.0	60.0	3.0	78.0	76.0	0.5	5.5	4.0	0.41
	88.900	20.638	22.225	16.513	2.0 1.3	79.5 95.8	4,400	5,800				4.3	0.32	1.88	1.03	55.0	58.0	2.0	84.0	81.0	1.3	5.5	5.0	0.51
	88.900	20.638	22.225	16.513	2.3 1.3	79.5 95.8	4,400	5,800				4.3	0.32	1.88	1.03	55.0	59.0	2.3	84.0	81.0	1.3	5.5	5.0	0.51
	90.000	28.000	28.000	23.000	3.0 2.5	115 154	4,300	5,800	JM205149—JM205110	JHM807045—JHM807012	7.4	7.6	0.33	1.82	1.00	57.0	62.0	3.0	85.0	80.0	2.5	6.5	4.5	0.74
	105.000	37.000	36.000	29.000	3.0 2.5	159 223	3,800	5,100				0.49	1.23	0.68	63.0	69.0	3.0	100.0	90.0	2.5	6.5	4.0	1.52	
110.000	22.000	21.996	18.824	0.8 1.3	91.6 126	3,400	4,500	0.40	1.49	0.82	60.0	61.0	0.8	104.0	101.0	1.3	4.0	4.5	1.04					
50.800	80.962	18.258	18.258	14.288	1.5 1.5	56.3 88.8	4,600	6,100	L305649—L305610	LM104949—LM104911	-1.9	2.5	0.36	1.69	0.93	56.0	58.0	1.5	77.0	73.0	1.5	5.0	3.5	0.34
	82.55	21.590	22.225	16.510	3.5 1.3	75.2 104	4,500	6,000				5.8	0.31	1.97	1.08	55.0	62.0	3.5	78.0	75.0	1.3	5.5	4.5	0.42
	85.725	19.050	18.263	12.700	1.5 1.5	47.8 63.9	4,400	5,900				0.57	1.06	0.58	56.0	59.0	1.5	81.0	76.0	1.5	5.0	3.0	0.39	
	88.900	17.462	17.462	13.495	3.5 1.3	50.6 67.5	4,400	5,900	18790—18724	368—362A	4.3	0.8	0.41	1.48	0.81	56.0	62.0	3.5	82.0	78.0	1.3	5.0	3.5	0.42
	88.900	20.638	22.225	16.153	1.5 1.3	79.5 95.8	4,400	5,900				0.32	1.88	1.03	56.0	58.0	1.5	84.0	81.0	1.3	5.5	5.0	0.50	
88.900	20.638	22.225	16.153	3.5 1.3	79.5 95.8	4,400	5,900	0.32	1.88	1.03	56.0	62.0	3.5	84.0	81.0	1.3	5.5	5.0	0.50					

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

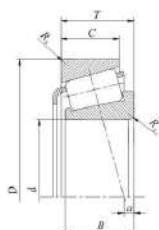
Single row tapered roller bearing



d 50.800~53.975 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)	
d	D	T	B	C	R _e (Min)	R _i	C ₀	C ₁₀	Grease	Oil	Inner Ring	Outer Ring			a ₀ ⁽¹⁾	e	Y _e	Y _x	d _i	d _e	R (Max)	Bearing housing D _i	D _e		r (Max)
50.800	88.900	20.638	22.225	16.513	5.0	1.3	79.5	95.8	4,400	5,800	370A—362A		4.3	0.32	1.88	1.03	56.0	65.0	5.0	84.0	81.0	1.3	5.5	5.0	0.49
	92.075	24.608	25.400	19.845	3.5	0.8	91.6	130	4,200	5,600	28580—28521		4.8	0.38	1.59	0.87	57.0	63.0	3.5	87.0	83.0	0.8	5.0	3.5	0.69
	93.264	20.638	22.225	15.083	2.3	1.3	81.4	101	4,200	5,600	375—374		3.8	0.34	1.77	0.97	57.0	60.0	2.3	88.0	85.0	1.3	7.0	5.5	0.59
	93.264	30.162	30.302	23.812	3.5	3.3	113	153	4,200	5,500	3780—3720		8.1	0.34	1.77	0.97	58.0	64.0	3.5	88.0	82.0	3.3	7.0	3.5	0.84
	93.264	30.162	30.302	23.812	3.5	0.8	113	153	4,200	5,500	3780—3730		8.1	0.34	1.77	0.97	58.0	64.0	3.5	88.0	84.1	0.8	7.0	3.5	0.85
	95.250	27.783	28.575	22.225	3.5	2.3	120	161	4,100	5,400	33889—33822		7.6	0.33	1.82	1.00	58.0	64.0	3.5	90.0	85.0	2.3	6.5	5.5	0.85
	96.838	21.000	21.946	15.875	2.3	0.8	84.2	108	3,900	5,200	385—382A		3.0	0.35	1.69	0.93	60.0	61.0	2.3	92.0	89.0	0.8	6.0	5.5	0.67
	97.630	24.608	24.608	19.446	3.5	0.8	96.3	142	3,900	5,200	28678—28622		3.3	0.40	1.49	0.82	58.0	65.0	3.5	92.0	88.0	0.8	5.0	4.0	0.83
	98.425	30.162	30.302	23.812	3.5	3.3	113	153	4,200	5,500	3870—3732		8.1	0.34	1.77	0.97	58.0	64.0	3.5	90.0	84.0	3.3	7.0	3.5	0.98
	101.600	31.750	31.750	25.400	3.5	3.3	123	155	3,900	5,200	49585—49520		7.1	0.40	1.50	0.82	59.0	66.0	3.5	96.0	88.0	3.3	6.5	4.0	1.11
101.600	34.925	36.068	26.998	0.8	3.3	152	192	4,000	5,300	529—522		12.7	0.29	2.10	1.16	58.0	59.0	0.8	95.0	89.0	3.3	8.0	5.5	1.23	
101.600	34.925	36.068	26.998	3.5	3.3	152	192	4,000	5,300	529X—522		12.7	0.29	2.10	1.16	58.0	65.0	3.5	95.0	89.0	3.3	8.0	5.5	1.22	
104.775	30.162	30.958	23.812	6.4	3.3	142	189	3,700	4,900	45284—25220		8.1	0.33	1.80	0.99	59.0	71.0	6.4	99.0	93.0	3.3	6.5	5.0	1.19	
104.775	36.512	36.512	28.575	3.5	3.3	159	223	3,900	5,100	HM807046—HM807010		7.4	0.49	1.23	0.68	63.0	70.0	3.5	100.0	89.0	3.3	7.0	4.0	1.49	
104.775	36.512	36.512	28.575	3.5	3.3	158	202	3,800	5,100	59200—59412		9.7	0.40	1.49	0.82	61.0	68.0	3.5	99.0	92.0	3.3	7.0	4.0	1.39	
104.775	39.688	40.157	33.338	3.5	3.3	167	237	3,800	5,100	4580—4535		12.4	0.34	1.79	0.98	61.0	67.0	3.5	99.0	90.0	3.3	7.5	4.5	1.61	
51.592	88.900	20.638	22.225	16.513	2.0	1.3	79.5	95.8	4,400	5,800	368S—362A		4.3	0.32	1.88	1.03	56.0	59.0	2.0	84.0	81.0	1.3	5.5	5.0	0.49
	92.075	24.608	25.400	19.845	3.5	0.8	91.6	130	4,200	5,600	28584—28521		4.8	0.38	1.59	0.87	58.0	65.0	3.5	87.0	83.0	0.8	5.0	3.5	0.66
	104.775	30.162	29.317	24.605	1.5	3.3	126	166	3,700	4,900	468—453X		7.1	0.34	1.79	0.98	60.0	62.0	1.5	98.0	92.0	3.3	5.5	3.0	1.12
53.975	88.900	19.050	19.050	13.492	2.3	2.0	60.6	81.8	4,200	5,600	LM806649—LM806610		-2.3	0.55	1.10	0.68	60.0	63.0	2.3	85.0	80.0	2.0	5.5	4.0	0.42
	95.250	27.783	28.575	22.225	1.5	0.8	120	161	4,100	5,400	33895—33822		7.6	0.33	1.82	1.00	60.0	63.0	1.5	90.0	86.0	0.8	6.5	5.5	0.79
	104.775	30.162	29.317	24.605	3.5	3.3	126	166	3,700	4,900	456—453X		7.1	0.34	1.79	0.98	61.0	68.0	3.5	98.0	92.0	3.3	5.5	3.0	1.1
	104.775	36.512	36.512	28.575	3.5	3.3	159	223	3,800	5,100	HM807049—HM807010		7.4	0.49	1.23	0.68	63.0	73.0	3.5	100.0	89.0	3.3	7.0	4.0	1.41
	104.775	39.688	40.157	33.338	3.5	3.3	167	237	3,800	5,100	4595—4535		12.3	0.34	1.79	0.98	63.0	70.0	3.5	99.0	90.0	3.3	7.5	4.5	1.54
	107.950	36.512	36.957	28.575	3.5	3.3	159	206	3,800	5,100	539—532X		12.2	0.30	2.02	1.11	61.0	68.0	3.5	100.0	94.0	3.3	8.0	4.0	1.44
	107.950	36.512	36.957	28.575	5.5	3.3	159	161	3,800	5,100	539A—532X		12.2	0.30	2.02	1.11	61.0	72.0	5.5	100.0	94.0	3.3	8.0	4.0	1.43
	117.475	33.338	31.750	23.812	3.5	3.3	138	166	3,500	4,600	66212—66462		0.3	0.63	0.96	0.53	67.0	73.0	3.5	110.0	100.0	3.3	7.0	3.0	1.58
	120.650	41.275	41.275	31.750	3.5	3.3	192	244	3,500	4,600	621—612		14.0	0.31	1.91	1.05	63.0	70.0	3.5	110.0	105.0	3.3	8.5	5.0	2.18

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

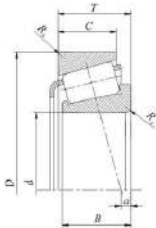


Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)						Reference mass (kg)	
<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>C</i>	<i>R_e</i>	<i>R_i</i>	<i>C₁</i>	<i>C₂</i>	Grease	Oil	Inner Ring	Outer Ring			<i>F₁</i>	<i>F₂</i>	<i>d_e</i>	<i>d_i</i>	<i>R</i> (Max)	<i>D_e</i>	<i>D_i</i>	<i>r</i> (Max)		<i>A₁</i>
53.975	122.238	33.338	31.750	23.812	3.5	3.3	143	178	3,300	4,300	66584—66520	9.4	0.67	0.90	0.5	68.0	75.0	3.5	116.0	105.0	3.3	7.0	3.0	1.78
	122.238	43.658	43.764	36.512	3.5	3.3	219	327	3,200	4,300	5578—5535	12.2	0.36	1.67	0.92	67.0	73.0	3.5	116.0	106.0	3.3	7.5	4.0	2.59
	123.825	36.512	32.791	25.400	3.5	3.3	167	208	2,900	4,000	72212C—72487	-2.0	0.74	0.81	0.45	67.0	79.0	3.5	116.0	102.0	3.3	8.0	3.5	2.12
	123.825	38.100	36.678	30.162	3.5	3.3	177	248	3,200	4,200	5575—552A	9.4	0.35	1.73	0.95	65.0	71.0	3.5	116.0	109.0	3.3	7.5	2.5	2.22
	127.000	44.450	44.450	34.925	3.5	3.3	225	297	3,300	4,400	65212—65500	9.4	0.49	1.23	0.68	71.0	77.0	3.5	119.0	107.0	3.3	8.5	4.0	2.86
	130.175	36.512	33.338	23.812	3.5	3.3	154	183	2,600	3,700	HM911242—HM911210	-5.3	0.82	0.73	0.40	74.0	79.0	3.5	123.6	109.0	3.3	8.5	4.0	2.22
54.988	104.775	30.162	29.317	24.605	2.3	3.3	126	166	3,700	4,900	466—453X	7.1	0.34	1.79	0.98	62.0	66.0	2.3	98.0	92.0	3.3	5.5	3.0	1.08
54.991	135.755	53.975	56.007	44.450	3.5	3.3	298	404	3,000	4,000	6381—6320	19.3	0.32	1.85	1.02	70.0	76.0	3.5	126.0	117.0	3.3	9.0	6.0	4.03
55.006	90.000	23.000	23.000	18.500	1.5	0.5	85.0	123	4,200	5,500	JLM506849—JLM506810	2.8	0.40	1.49	0.82	61.0	63.0	1.5	86.0	82.0	0.5	5.0	3.5	0.55
	95.000	29.000	29.000	23.500	1.5	2.5	121	168	4,000	5,300	JM207049—JM207010	7.6	0.33	1.79	0.98	62.0	64.0	1.5	91.0	85.0	2.5	6.5	4.5	0.84
	96.838	21.000	21.946	15.875	2.3	0.8	84.2	108	3,900	5,200	385—382A	3.0	0.35	1.69	0.93	61.0	65.0	2.3	92.0	89.0	0.8	6.0	5.5	0.61
	96.838	21.000	21.946	15.875	3.5	0.8	84.2	108	3,900	5,200	385X—382A	3.0	0.35	1.69	0.93	61.0	67.0	3.5	92.0	89.0	0.8	6.0	5.5	0.61
55.006	110.000	39.000	39.000	32.000	3.0	2.5	194	251	3,600	4,900	JH307749—JH307710	11.7	0.35	1.73	0.95	64.0	71.0	3.0	104.0	97.0	2.5	9.0	6.0	1.69
	96.838	21.000	21.946	15.875	2.3	0.8	84.2	108	3,900	5,200	385—382A	3.0	0.35	1.69	0.93	61.0	65.0	2.3	92.0	89.0	0.8	6.0	5.5	0.61
55.575	97.630	24.608	24.608	19.446	3.5	0.8	96.3	142	3,900	5,200	28680—28622	3.4	0.40	1.49	0.82	62.0	68.0	3.5	92.0	88.0	0.8	5.0	4.0	0.75
	127.000	36.512	36.512	26.988	3.5	3.3	179	256	3,000	4,000	HM813840—HM813810	3.8	0.50	1.20	0.68	70.0	76.0	3.5						

Remarks:

- 1) When a is negative, it represents that the effective load center on the outer side of the bearing;
- 2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

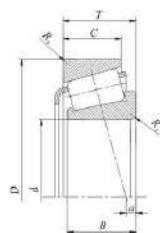


d 57.150-63.500 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)								Reference mass (kg)	
d	D	T	B	C	R ₁	R ₂	C ₁	C ₀	Grease	Oil	Inner Ring	Outer Ring			a ¹⁾	e	Y ₁	Y ₂	Shaft	Bearing housing			Cage			
					(Min)													d ₁	d ₂	R(Max)	D ₁	D ₂	r(Max)	A ₁	A ₂	
57.150	112.712	30.162	30.162	23.812	8.0	3.3	155	224	3,300	4,500	39581—39520		6.6	0.34	1.77	0.97	66.0	81.0	8.0	107.0	101.0	3.3	7.0	5.0	1.33	
	117.475	30.162	30.162	23.812	3.5	3.3	128	197	3,200	4,200	33225—33462		2.8	0.44	1.38	0.76	68.0	74.0	3.5	112.0	104.0	3.3	6.5	3.5	1.53	
	120.650	41.275	41.275	31.750	3.5	3.3	192	244	3,500	4,600	623—612		14.0	0.31	1.91	1.05	66.0	72.0	3.5	110.0	105.0	3.3	8.5	5.0	2.09	
	123.825	36.512	32.791	25.400	3.5	3.3	167	208	2,900	4,000	72225C—72487		-2.0	0.74	0.81	0.45	67.0	81.0	3.5	116.0	102.0	3.3	8.0	3.5	2.05	
	127.000	44.450	44.450	34.925	3.5	3.3	225	297	3,300	4,400	65225—65500		9.4	0.49	1.23	0.68	71.0	80.0	3.5	119.0	107.0	3.3	8.5	4.0	2.68	
	140.030	36.512	33.236	23.520	3.5	2.3	158	193	2,500	3,500	78225—78551		-7.9	0.87	0.69	0.38	77.0	83.0	3.5	132.0	117.0	2.3	9.0	4.0	2.56	
57.531	96.838	21.000	21.946	15.875	3.5	0.8	84.2	108	3,900	5,200	388A—382A		3.0	0.35	1.69	0.93	63.0	69.0	3.5	92.0	89.0	0.8	6.0	5.5	0.57	
59.972	122.238	33.338	31.750	23.812	0.8	3.3	143	178	3,300	4,300	66589—66520		-2.0	0.67	0.90	0.50	73.0	74.0	0.8	116.0	105.0	3.3	7.0	3.0	1.65	
60.000	95.000	24.000	24.000	19.000	5.0	2.5	90.4	135	3,900	5,200	JLM508748—JLM508710		2.8	0.40	1.49	0.82	66.0	75.0	5.0	91.0	85.0	2.5	5.5	3.5	0.63	
	107.950	25.400	25.400	19.050	3.5	3.3	102	158	3,300	4,400	29580—29520		0.8	0.46	1.31	0.72	68.0	75.0	3.5	103.0	96.0	3.3	6.0	3.0	0.84	
	110.000	22.000	21.996	18.824	0.8	1.3	91.6	126	2,500	3,500	397—394A		0.8	0.4	1.49	0.82	68.0	69.0	0.8	104.0	101.0	1.3	4.0	4.5	0.89	
60.325	100.000	25.400	25.400	19.845	3.5	3.3	98.2	149	3,700	4,900	28985—28921		2.5	0.43	1.41	0.78	67.0	73.0	3.5	96.00	89.00	3.3	5.5	3.0	0.75	
	101.600	25.400	25.400	19.845	3.5	3.3	98.2	149	3,700	4,900	28985—28920		2.5	0.43	1.41	0.78	67.0	73.0	3.5	97.00	90.00	3.3	5.5	3.0	0.79	
	122.238	43.658	43.764	36.512	3.5	3.3	219	327	3,200	4,300	5583—5535		12.2	0.36	1.67	0.92	72.0	78.0	3.5	116.0	106.0	3.3	7.5	4.0	2.40	
	127.000	36.512	36.512	26.988	3.5	3.3	179	256	3,000	4,000	HM813841—HM813810		3.8	0.50	1.20	0.66	73.0	80.0	3.5	121.0	111.0	3.3	8.0	4.0	2.61	
	127.000	36.512	36.512	26.988	1.5	3.3	179	256	3,000	4,000	HM813841A—HM813810		3.8	0.50	1.20	0.66	73.0	76.0	1.5	121.0	111.0	3.3	8.0	4.0	2.61	
	127.000	44.450	44.450	34.925	3.5	3.3	225	297	3,300	4,400	65237—65500		9.4	0.49	1.23	0.68	71.0	82.0	3.5	119.0	107.0	3.3	8.5	4.0	2.66	
	127.000	44.450	44.450	34.925	1.5	3.3	225	297	3,300	4,400	65237A—65500		9.4	0.49	1.23	0.68	71.0	78.0	1.5	119.0	107.0	3.3	8.5	4.0	2.59	
	130.175	36.512	33.338	23.812	5.0	3.3	154	183	2,600	3,700	HM911245—HM911210		-5.3	0.82	0.73	0.40	74.0	87.0	5.0	124.0	109.0	3.3	8.5	4.0	2.06	
	136.525	46.038	46.038	36.512	3.5	3.3	249	405	2,800	3,700	H715332—H715311		8.6	0.47	1.27	0.70	78.0	84.0	3.5	132.0	118.0	3.3	8.0	4.5	3.55	
	110.000	22.000	21.996	18.824	0.8	1.3	91.6	126	3,400	4,500	392—394A		0.8	0.40	1.49	0.82	69.0	70.0	0.8	104.5	101.0	1.3	4.0	4.5	0.86	
61.912	130.175	36.512	33.338	23.812	3.5	3.3	154	183	2,600	3,700	HM911249—HM911210		-5.3	0.82	0.73	0.40	74.0	85.0	3.5	123.6	109.0	3.3	8.5	4.0	2.03	
	146.050	41.275	39.688	25.400	3.5	3.3	213	256	2,300	3,300	H913842—H913810		-4.3	0.78	0.77	0.42	82.0	90.0	3.5	138.0	124.0	3.3	11.0	5.5	3.11	
63.500	107.950	25.400	25.400	19.050	1.5	3.3	102	158	3,400	4,500	29586—29520		0.8	0.46	1.31	0.72	71.0	73.0	1.5	103.0	96.0	3.3	6.0	3.0	0.92	
	110.000	22.000	21.996	18.824	1.5	1.3	91.6	126	3,400	4,500	390A—394A		0.8	0.40	1.49	0.82	70.0	73.0	1.5	104.0	101.0	1.3	4.0	4.5	0.83	
	110.000	22.000	21.996	18.824	3.5	1.3	91.6	126	3,400	4,500	395—394A		0.8	0.40	1.49	0.82	70.0	77.0	3.5	104.0	101.0	1.3	4.0	4.5	0.82	
	110.000	25.400	25.400	19.050	3.5	1.3	102	158	3,400	4,500	29585—29521		0.8	0.46	1.31	0.72	71.0	77.0	3.5	104.0	99.0	1.3	6.0	3.0	0.98	

Remarks:
1) When a is negative, it represents that the effective load center on the outer side of the bearing;
2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing

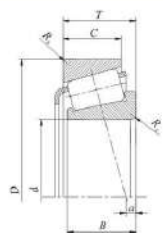


d 63.500~66.675 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)						Reference mass (kg)		
d	D	T	B	C	R ₁ R ₂ (Min)	C ₁ C ₂	Grease	Oil	Inner Ring	Outer Ring	Y ₁ Y ₂			e	Y ₁ Y ₂	d ₁ d ₂ R (Max)	D ₁ D ₂ r (Max)	A ₁ A ₂						
63.500	112.712	30.162	30.162	23.812	3.5	3.3	155	224	3,300	4,500	39585—39520	0.8	0.46	1.31	0.97	71.0	77.0	3.5	107.0	101.0	3.3	7.0	5.0	1.22
	120.000	29.794	29.007	24.237	0.8	2.0	133	186	3,200	4,200	477—472	4.1	0.38	1.56	0.86	72.0	73.0	0.8	114.0	107.0	2.0	6.5	4.0	1.46
	122.238	38.100	38.354	29.718	3.5	3.3	209	279	3,200	4,300	HM212046—HM212011	10.9	0.34	1.78	0.98	73.0	80.0	3.5	116.0	108.0	3.3	9.0	6.5	1.94
	122.238	43.658	43.764	36.512	3.5	3.3	219	327	3,200	4,300	5584—5535	12.2	0.36	1.67	0.92	75.0	81.0	3.5	116.0	106.0	3.3	7.5	4.0	2.29
	127.000	36.512	36.170	28.575	3.5	3.3	182	263	3,000	4,000	565—563	8.1	0.36	1.65	0.91	73.0	80.0	3.5	120.0	112.0	3.3	7.5	4.0	2.08
	135.775	53.975	56.007	44.450	4.3	3.3	298	404	3,000	4,000	6382—6320	19.3	0.32	1.85	1.02	77.0	84.0	4.3	126.0	117.0	3.3	9.0	6.0	3.68
	136.525	36.512	33.236	23.520	2.3	3.3	158	193	2,500	3,500	78250—78537	-7.9	0.87	0.69	0.38	79.0	85.0	2.3	130.0	115.0	3.3	9.0	4.0	2.26
	136.525	41.275	41.275	31.750	3.5	3.3	252	335	2,900	3,800	H414235—H414210	10.9	0.36	1.67	0.92	78.0	82.0	3.5	129.0	121.0	3.3	9.0	6.0	2.91
64.986	112.712	30.162	30.924	23.812	2.3	3.3	155	224	3,300	4,500	39586—39520	6.6	0.34	1.77	0.97	72.0	76.0	2.3	107.0	101.0	3.3	7.0	5.0	1.20
65.000	105.000	24.000	23.000	18.500	3.0	1.0	100	139	3,500	4,700	JLM710949—JLM710910	0.3	0.45	1.32	0.73	71.0	77.0	3.0	101.0	96.0	1.0	6.5	4.0	0.72
	110.000	28.000	28.000	22.500	3.0	2.5	131	195	3,400	4,600	JM511946—JM511910	3.3	0.40	1.49	0.82	72.0	78.0	3.0	105.0	99.0	2.5	6.5	4.5	1.05
	120.000	39.000	38.500	32.000	3.0	2.5	207	283	3,200	4,300	JH211749—JH211710	10.7	0.34	1.78	0.98	74.0	80.0	3.0	114.0	107.0	2.5	9.0	6.0	1.86
	120.000	39.000	38.500	32.000	7.0	2.5	207	283	3,200	4,300	JH211749A—JH211710	10.7	0.34	1.78	0.98	74.0	88.0	7.0	114.0	107.0	2.5	9.0	6.0	1.83
65.086	135.755	53.975	56.007	44.450	3.5	3.3	298	404	3,000	4,000	6379—6320	19.3	0.32	1.85	1.02	77.0	84.0	3.5	126.0	117.0	3.3	9.0	6.0	3.61
	136.525	46.038	46.038	36.512	3.5	3.3	249	405	2,800	3,700	H715340—H7154311	8.6	0.47	1.27	0.70	82.0	88.0	3.5	132.0	118.0	3.3	8.0	4.5	3.38
65.083	122.238	43.658	43.764	36.512	3.5	3.3	219	327	3,200	4,300	5595—5535	12.2	0.36	1.67	0.92	77.0	83.0	3.5	116.0	106.0	3.3	7.5	4.0	2.21
66.675	110.000	22.000	21.996	18.824	0.8	1.3	91.6	126	3,400	4,500	395A—394A	0.8	0.40	1.49	0.82	73.0	73.0	0.8	104.0	101.0	1.3	4.0	4.5	1.06
	110.000	22.000	21.996	18.824	3.5	1.3	91.6	126	3,400	4,500	395S—394A	0.8	0.40	1.49	0.82	73.0	79.0	3.5	104.0	101.0	1.3	4.0	4.5	0.78
	112.712	30.162	30.048	23.812	3.5	0.8	129	191	3,400	4,500	398A—3925	4.6	0.40	1.49	0.82	74.0	80.0	3.5	106.0	101.0	0.8	6.5	3.5	1.14
	112.712	30.162	30.162	23.812	3.5	3.3	155	224	3,300	4,500	39590—39520	6.6	0.34	1.77	0.97	74.0	80.0	3.5	107.0	101.0	3.3	7.0	5.0	1.13
	112.712	30.162	30.162	23.812	3.5	0.8	155	224	3,300	4,500	39590—39521	6.6	0.34	1.77	0.97	74.0	80.0	3.5	107.0	103.0	0.8	7.0	5.0	1.15
	122.238	38.100	38.354	29.718	3.5	1.5	209	279	3,200	4,300	HM212049—HM212010	10.9	0.34	1.78	0.98	75.0	82.0	3.5	116.0	110.0	1.5	9.0	6.5	1.85
	127.000	36.512	36.512	26.988	3.5	1.5	179	256	3,000	4,000	HM813844—HM813811	3.8	0.50	1.20	0.66	78.0	85.0	3.5	121.0	113.0	1.5	8.0	4.0	1.99
	130.175	41.275	41.275	31.750	3.5	3.3	216	298	3,000	3,900	641—633	11.2	0.36	1.66	0.91	77.0	83.0	3.5	124.0	116.0	3.3	8.5	5.0	2.38
	135.755	53.975	56.007	44.450	4.3	3.3	298	404	3,000	4,000	6386—6320	19.3	0.32	1.85	1.02	77.0	87.0	4.3	126.0	117.0	3.3	9.0	6.0	3.54
	135.755	53.975	56.007	44.450	6.4	3.3	298	404	3,000	4,000	6389—6320	19.3	0.32	1.85	1.02	77.0	91.0	6.4	126.0	117.0	3.3	9.0	6.0	3.52
	136.525	41.275	41.275	31.750	3.5	3.3	252	335	2,900	3,800	H414242—H414210	10.9	0.36	1.67	0.92	81.0	85.0	3.5	129.0	121.0	3.3	9.0	6.0	2.81

Remarks:
 1) When a is negative, it represents that the effective load center on the outer side of the bearing;
 2) ** represents that the inner ring adopts combined fillet.

Single row tapered roller bearing



d 66.675~70.000 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (r/min)		Nominal numbers		Load center mm	Constant	Axial load coefficient		Mounting dimensions (mm)							Reference mass (kg)	
d	D	T	B	C	R _a (Min)	C ₀	C _{0s}	Grease	Oil	Inner Ring	Outer Ring			e ⁽¹⁾	e	F ₀	F ₂	d _s	d _e	R(Max)	D _s	D _e		r(Max)
66.675	136.525	46.038	46.038	36.512	3.5	3.3	252	335	2,800	3,700	H715341—H715311	8.6	0.47	1.27	0.70	84.0	90.0	3.5	132.0	118.0	3.3	8.0	4.5	3.26
	177.800	57.150	53.975	37.308	3.5	3.3	352	413	2,100	2,900	HH914449—HH914442	0.3	0.80	0.75	0.41	85.0	106.0	3.5	165.0	146.0	3.3	14.0	6.0	6.73
68.262	110.000	22.000	21.996	18.824	2.3	1.3	91.6	126	3,400	4,500	399A—394A	0.8	0.40	1.49	0.82	74.0	78.0	2.3	104.0	101.0	1.3	4.0	4.5	0.74
	110.000	22.000	21.996	18.824	5.0	1.3	91.6	126	3,400	4,500	399AS—94A	0.8	0.40	1.49	0.82	74.0	83.0	5.0	104.0	101.0	1.3	4.0	4.5	0.72
	117.475	30.162	30.162	23.812	3.5	3.3	128	197	3,200	4,200	33269—33462	2.8	0.44	1.38	0.76	76.0	82.0	3.5	112.0	104.0	3.3	6.5	3.5	1.29
	127.000	36.512	36.170	28.575	3.5	3.3	182	263	3,000	4,000	570—563	8.1	0.36	1.65	0.91	77.0	83.0	3.5	120.0	112.0	3.3	7.5	4.0	1.94
	136.525	41.275	41.275	31.750	3.5	3.3	252	335	2,900	3,800	H414245—H414210	10.9	0.36	1.67	0.92	82.0	86.0	3.5	129.0	121.0	3.3	9.0	6.0	2.75
	136.525	46.038	46.038	36.512	3.5	3.3	249	405	2,800	3,700	H715343—H715311	8.6	0.47	1.27	0.70	84.0	90.0	3.5	132.0	118.0	3.3	8.0	4.5	3.26
	152.400	47.625	46.038	31.750	3.5	3.3	264	306	2,700	3,600	9185—9121	3.8	0.66	0.91	0.50	81.0	94.0	3.5	145.0	130.0	3.3	11.5	6.5	3.83
	161.925	49.212	46.038	31.750	3.5	3.3	275	330	2,100	2,900	9278—9220	0.0	0.71	0.85	0.47	90.4	97.0	3.5	153.0	138.0	3.3	12.0	4.5	4.64
69.850	99.271	17.000	16.000	13.000	1.5	1.5	45.2	75.0	3,500	4,700	LL713149—LL713110	-4.6	0.46	1.29	0.75	75.0	77.0	1.5	95.0	91.0	1.5	5.0	1.0	0.38
	112.712	22.225	21.996	15.875	1.5	0.8	93.4	131	3,300	4,400	LM613449—LM613410	0.0	0.42	1.44	0.79	76.0	78.0	1.5	107.0	104.0	0.8	7.0	4.5	0.77
	112.712	25.400	25.400	19.050	1.5	3.3	102	166	3,200	4,300	29675—29620	-1.0	0.49	1.23	0.68	77.0	80.0	1.5	109.0	101.0	3.3	6.0	3.5	0.95
	117.745	30.162	30.162	23.812	3.5	3.3	128	197	3,200	4,200	33275—33462	2.8	0.44	1.38	0.76	77.0	84.0	3.5	112.0	104.0	3.3	6.5	3.5	1.25
	120.000	29.002	29.007	23.444	3.5	3.3	133	186	3,200	4,200	482—472A	4.1	0.38	1.56	0.86	77.0	83.0	3.5	114.0	106.0	3.3	6.5	5.0	1.27
	120.000	29.794	29.007	24.237	3.5	2.0	133	186	3,200	4,200	482—472	4.1	0.38	1.56	0.86	77.0	83.0	3.5	114.0	107.0	2.0	6.5	4.0	1.30
	120.000	32.545	32.545	26.195	3.5	3.3	166	249	3,100	4,200	47487—47420	6.4	0.36	1.67	0.92	78.0	84.0	3.5	114.0	107.0	3.3	6.5	4.0	1.46
	120.650	32.545	32.545	26.195	3.5	0.5	166	249	3,100	4,200	47487—47420A	6.4	0.36	1.67	0.92	78.0	84.0	3.5	114.0	109.0	0.5	6.5	4.0	1.47
	127.000	36.512	36.170	28.575	3.5	3.3	182	263	3,000	4,000	566—563	8.1	0.36	1.65	0.91	78.0	85.0	3.5	120.0	112.0	3.3	7.5	4.0	1.89
	146.050	41.275	39.688	25.400	3.5	3.3	213	256	2,300	3,300	H913849—H913810	-4.3	0.78	0.77	0.42	82.0	95.0	3.5	138.0	124.0	3.3	11.0	5.5	2.85
	146.050	41.275	41.275	31.750	3.5	3.3	229	335	2,600	3,400	655—653	7.9	0.41	1.47	0.81	82.0	88.0	3.5	139.0	131.0	3.3	8.0	5.0	3.24
	150.089	44.450	46.672	36.512	3.5	3.3	294	417	2,500	3,400	745A—742	11.9	0.33	1.84	1.01	82.0	88.0	3.5	142.0	134.0	3.3	9.5	7.0	3.88
	168.275	53.975	56.363	41.275	3.5	3.3	379	522	2,300	3,100	835—832	18.5	0.30	2.00	1.10	84.0	91.0	3.5	155.0	149.0	3.3	11.0	7.5	6.15
69.952	121.442	24.608	23.012	17.462	2.0	2.0	94.6	137	3,000	4,000	34274—34478	-1.5	0.45	1.33	0.73	78.0	81.0	2.0	116.0	110.0	2.0	7.0	3.0	1.08
70.000	110.000	26.000	25.000	20.500	1.0	2.5	106	168	3,300	4,400	JLM812049—JLM813010	-0.3	0.49	1.23	0.68	77.0	78.0	1.0	105.0	98.0	2.5	6.0	4.0	0.88
	115.000	29.000	29.000	23.000	3.0	2.5	139	198	3,200	4,300	JM612949—JM612910	2.5	0.43	1.39	0.77	77.0	83.0	3.0	110.0	103.0	2.5	7.5	5.0	1.13

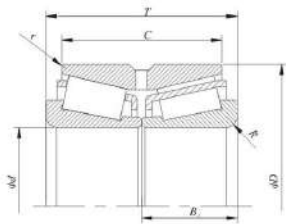
Remarks:

- 1) When a is negative, it represents that the effective load center on the outer side of the bearing;
 2) "*" represents that the inner ring adopts combined fillet.

B 160

B 161

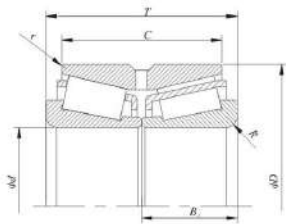
Double row tapered roller bearing



d 80~100 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Calculating coefficient				Limiting speeds (r/min)		Nominal numbers	Reference mass (kg)
d	D	T	C	B _i	R (Min)	r	C _r	C _{0r}	e	Y _i	Y _s	Y _r	Grease	Oil		
80	110	46	38	20	1.0	0.2	186	258	0.35	1.93	2.86	1.88	2600	3600	352916	1.14
	125	66	52	29	1.5	0.6	684	478	0.42	1.61	2.39	1.57	2300	3100	352016	1.28
	140	64	51.5	—	2.5	0.6	256	364	0.42	1.61	2.39	1.57	2200	2900	350216	3.91
	140	78	63.5	33	2.5	0.6	321	488	0.42	1.61	2.39	1.57	2200	2900	352216	3.91
	170	92	73	—	3.0	1.0	456	622	0.35	1.96	2.91	1.91	1800	2500	350316	9.57
	170	94	63	39	3.0	1.0	384	530	0.83	0.81	1.21	0.8	1600	2400	351316	9.44
	170	131	104	—	3.0	1.0	595	881	0.35	1.96	2.91	1.91	1900	2500	352316	13.6
85	130	67	53	29	1.5	0.6	257	468	0.44	1.53	2.28	1.5	2400	3200	352017	4.78
	150	70	57	—	2.5	0.6	289	416	0.42	1.61	2.39	1.57	2000	2700	350217	4.94
	150	86	69	36	2.5	0.6	368	567	0.42	1.61	2.39	1.57	2000	2700	352217	6.07
	180	98	77	—	4.0	1.0	491	671	0.35	1.96	2.91	1.91	1700	2300	350317	11.4
	180	99	66	41	4.0	1.0	520	730	0.83	0.81	1.21	0.8	1600	2400	351317	10.72
	180	137	108	—	4.0	1.0	680	1030	0.35	1.96	2.91	1.91	1800	2400	352317	15.9
	180	137	108	—	4.0	1.0	680	1030	0.35	1.96	2.91	1.91	1800	2400	352317	15.9
90	140	73	57	32	2.0	0.6	305	552	0.42	1.61	2.39	1.57	2100	2800	352018	4.08
	160	74	61	—	2.5	0.6	324	470	0.42	1.61	2.39	1.57	1900	2500	350218	5.99
	160	94	77	—	2.5	0.6	417	651	0.42	1.61	2.39	1.57	1900	2500	352218	7.61
	190	102	81	—	4.0	1.0	536	736	0.35	1.96	2.91	1.91	1600	2200	350318	13.2
	190	144	115	—	4.0	1.0	715	1070	0.35	1.96	2.91	1.91	1700	2200	352318	18.6
	190	103	70	43	4.0	1.0	453	630	0.83	0.81	1.21	0.8	1700	2200	351318	13.75
	190	103	70	43	4.0	1.0	453	630	0.83	0.81	1.21	0.8	1700	2200	351318	13.75
95	145	73	57	32	2.0	0.6	312	574	0.44	1.53	2.28	1.5	2100	2800	352019	4.19
	170	100	83	43	3.0	1.0	533	878	0.42	1.61	2.39	1.57	1900	2600	352219	9.44
	200	109	74	45	4.0	1.0	501	710	0.83	0.81	1.21	0.8	1450	2100	351319	16.2
100	140	57	47	25	1.5	0.2	217	437	0.33	2.05	3.05	2.38	2000	2800	352920	2.31
	150	73	57	32	2.0	0.6	317	596	0.46	1.48	2.36	1.44	2000	2700	352020	4.43
	180	107	87	46	3.0	1.0	409	608	0.42	1.61	2.39	1.57	1700	2200	352220	8.6
	215	112	87	—	4.0	1.0	655	912	0.35	1.96	2.91	1.91	1500	1900	350320	18.8
	215	124	81	51	4.0	1.0	641	930	0.83	0.81	1.21	0.8	1400	1900	351320	20.0
	215	162	127	—	4.0	1.0	892	1360	0.35	1.96	2.91	1.91	1500	2000	352320	27.1
	215	162	127	—	4.0	1.0	892	1360	0.35	1.96	2.91	1.91	1500	2000	352320	27.1

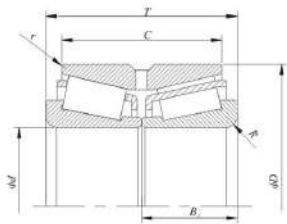
Double row tapered roller bearing



d 105~140 mm

Boundary dimensions (mm)						Basic load ratings (kN)		Calculating coefficient				Limiting speeds (r/min)		Nominal numbers	Reference mass (kg)
d	D	T	C	B ₁	R (Min)	C ₁	C ₁₀	e	Y ₁	Y ₂	Y ₃	Grease	Oil		
105	160	80	62	35	2.5	369	688	0.44	1.52	2.26	1.48	1900	2600	352021	5.6
	190	115	95	50	3.0	672	1134	0.42	1.61	2.39	1.57	1700	2300	352221	13.98
	225	127	83	53	4.0	689	1000	0.83	0.81	1.21	0.8	1300	1700	351321	22.5
110	170	86	68	38	2.5	425	790	0.43	1.57	3.24	1.54	1800	2400	352022	16.54
	180	95	76	42	2.0	—	—	—	—	—	—	1600	2100	352122	—
	200	92	74	—	3.0	513	781	0.42	1.61	2.39	1.57	1500	2000	350222	11.9
	200	121	101	53	3.0	693	1150	0.42	1.61	2.39	1.57	1500	2000	352222	15.6
	240	118	93	—	4.0	746	1030	0.35	1.96	2.91	1.91	1300	1700	350322	24.8
	240	181	142	—	4.0	1060	1630	0.35	1.96	2.91	1.91	1300	1700	352322	38.1
	240	137	87	57	4.0	783	1170	0.83	0.81	1.21	0.8	1200	1600	351322	27.96
	180	88	70	38	2.5	442	854	0.46	1.48	2.19	1.44	1500	2100	352024	7.57
	200	110	90	48	2.0	—	—	—	—	—	—	1400	1900	352124	—
120	215	97	78	—	3.0	550	851	0.44	1.55	2.31	1.52	1400	1800	350224	14.3
	215	132	109	58	3.0	742	1240	0.44	1.55	2.31	1.52	1400	1900	352224	19.4
	260	128	101	—	4.0	883	1250	0.35	1.96	2.91	1.91	1200	1600	350324	37.9
	260	188	145	—	4.0	1230	1920	0.35	1.96	2.91	1.91	1200	1600	352324	46.2
	260	148	96	62	4.0	924	1390	0.83	0.81	1.21	0.8	1000	1450	351324	36.11
	200	102	80	45	2.5	583	1126	0.43	1.56	2.32	1.52	1400	1900	352026	11.54
	210	110	90	48	2.0	—	—	—	—	—	—	1400	1800	352126	—
130	230	98	78.5	—	4.0	596	917	0.44	1.55	2.31	1.52	1300	1700	350226	16.3
	230	145	117.5	64	4.0	873	1490	0.44	1.55	2.31	1.52	1300	1700	352226	24.1
	280	137	107.5	—	5.0	1020	1460	0.35	1.96	2.91	1.91	1100	1400	350326	39
	280	205	163.5	—	5.0	1450	2290	0.35	1.96	2.91	1.91	1100	1400	352326	58.3
	280	156	100	66	5.0	1337	1560	0.83	0.81	1.21	0.8	950	1400	351326	43.1
	210	104	82	45	2.5	593	1170	0.46	1.48	2.19	1.44	1300	1900	352028	12.23
	225	115	90	50	2.5	—	—	—	—	—	—	1200	1700	352128	—
140	250	102	82.5	—	4.0	665	1030	0.44	1.55	2.31	1.52	1200	1500	350228	20.2
	250	153	125.5	68	4.0	1000	1720	0.44	1.55	2.31	1.52	1200	1600	352228	30.3
	300	145	115.5	—	5.0	1160	1680	0.35	1.96	2.91	1.91	1000	1300	350328	47.2
	300	223	177.5	—	5.0	1690	2710	0.35	1.96	2.91	1.91	1000	1300	352328	72.6
	300	168	108	70	5.0	1188	1800	0.83	0.81	1.21	0.8	850	1300	351328	57.1

Double row tapered roller bearing



d 150 mm

Boundary dimensions (mm)							Basic load ratings (kN)		Calculating coefficient					Limiting speeds (r/min)		Nominal numbers	Reference mass (kg)
d	D	T	C	B _i	R (Min)	r	C _r	C _{0r}	e	Y _i	Y _j	Y _k	Y _l	Grease	Oil		
150	225	110	86	48	3.0	1.0	670	1336	0.46	1.48	2.19	1.44	—	1300	1700	352030	—
	250	138	112	60	2.5	1.0	—	—	—	—	—	—	—	1100	1600	352130	—
	270	109	87	—	4.0	1.0	764	1200	0.44	1.55	2.31	1.52	—	1100	1400	350230	25.4
270	164	130	73	—	4.0	1.0	1050	1760	0.44	1.55	2.31	1.52	—	1100	1400	352230	38.2
320	154	120	—	—	5.0	1.5	1300	1890	0.35	1.96	2.91	1.91	—	930	1200	350330	56.9
320	178	114	75	—	5.0	1.1	1340	2040	0.83	0.81	1.21	0.8	—	800	1200	351330	68.7