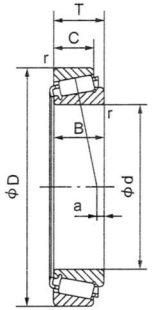
Taper roller bearings

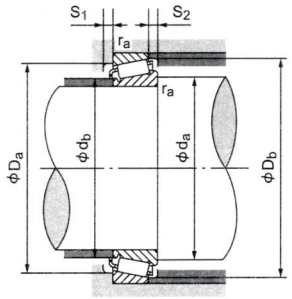
The projection lines of all the tapered surfaces meet at a common point on the bearing axis. Their design makes taper roller bearings particularly suitable for the accommodation of combined loads. The axial load carrying capacity of the bearings is largely determined by the contact angle, the larger of angle, the higher the axial load carrying capacity. An indication of the angle size is given by the calculation factor, the larger the value of coefficient, the larger the contact angle and the greater the suitability of the bearing for carrying axial loads.

Bore diameter d: 15~35mm



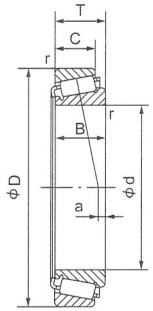
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
15	35	11.75	11	10	0.6	0.6	**30202**	15800	14500	11000	15000
	42	14.25	13	11	1	1	**30302**	21900	19200	10000	14000
17	40	13.25	12	11	1	1	**30203**	20400	20200	10000	13000
	40	17.25	16	13	1	1	**32203**	25400	24600	10000	13000
	47	15.25	14	12	1	1	**30303**	30000	27600	9000	12000
	47	20.25	19	16	1	1	**32303**	30500	33000	9000	12000
20	42	15	15	12	0.6	0.6	**32004**	25100	28200	9200	12000
	47	15.25	14	12	1	1	**30204**	29500	30500	8500	11500
	47	19.25	18	15	1	1	**32204**	27500	28000	8500	11500
	52	16.25	15	13	1.5	1.5	**30304**	35000	35500	8000	10700
	52	22.25	21	18	1.5	1.5	**32304**	45100	46700	8400	11000
25	47	15	15	11.5	0.6	0.6	**32304**	28000	34000	8000	10700
	47	17	17	14	0.6	0.6	**33005**	27500	37000	8000	10700
	52	16.25	15	13	1	1	**30205**	31500	33700	7500	10000
	52	19.25	18	15	1.1	1.1	**32205**	32500	35000	7500	10000
	62	18.25	17	15	1.5	1.5	**30305**	48200	46900	6800	9000
	62	18.25	17	13	1.5	1.5	**31305**	39800	42500	5700	8000
	62	25.25	24	20	1.5	1.5	**32305**	61200	64100	6900	9100
30	55	17	17	13	1	1	**32006**	37500	46500	6700	9100
	55	20	20	16	1	1	**33006**	39500	59500	6700	9100
	62	17.25	16	14	1	1	**30206**	43500	48000	6200	8400
	62	21.25	20	17	1	1	**32206**	53000	61500	6200	8400
	72	20.75	19	16	1.5	1.5	**30306**	59600	60100	5800	7700
	72	20.75	19	14	1.5	1.5	**31306**	50900	54900	4900	6800
	72	28.75	27	23	1.5	1.5	**32306**	82200	91600	5900	7900
35	55	14	14	11.5	0.6	0.6	**32907**	26200	40000	6300	8500
	62	18	18	14	1	1	**32007**	44500	57500	6000	8000
	62	21	21	17	1	1	**33007**	46000	71000	6000	8000
	72	18.25	17	15	1.5	1.5	**30207**	54500	60500	5400	7200
	72	24.25	23	19	1.5	1.5	**32207**	70000	86000	5400	7200
	72	28	28	22	1.5	1.5	**33207**	86700	107000	5700	7500
	80	22.75	21	18	2	2	**30307**	76000	79000	5000	6700
	80	22.75	21	15	2	2	**31307**	63100	69100	4300	6000
	80	32.75	31	25	2	2	**32307**	101000	114000	5300	7000

Note : when load center is (-), and it is out of inner ring plane



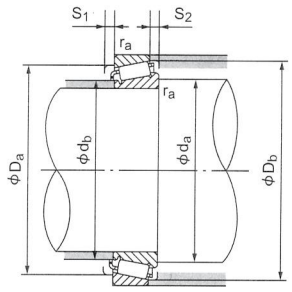
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
20	20	28	33	2	2	0.6	0.6	3.4	0.053
21	22	35	38	2	3	1	1	4.3	0.095
23	22	33	36.5	2	2.5	1	1	3.4	0.070
23	21	33	36.5	2	5	1	1	6.3	0.180
23	23.5	39	42	2	5	1	1	4.8	0.130
23	24	39	42	2	5	1	1	9.3	0.170
25	24	35	39	3	3.5	0.6	0.6	4.6	0.100
26	26	39	43	2	3.5	1	1	3.9	0.120
26	26	39	43	2	5	1	1	6.3	0.230
27	27	43	47	2	5	1.5	1.5	4.7	0.170
28.5	27	43	47	3	4	1.5	1.5	7.8	0.239
30	28.5	40	44	3	3.5	0.6	0.6	3.3	0.110
32	32	41	44	3	4	0.6	0.6	5.7	0.140
31	30	43	48	2	3.5	1	1	3.5	0.152
31	30	43	48	2	5	1	1	5.4	0.180
33.5	34	54	57	2	3	1.5	1.5	5.4	0.265
33.5	34	47	58.5	3	5	1.5	1.5	-2.2	0.267
33.5	33	52	57	3	5	1.5	1.5	8.7	0.378
36	34	48	52	3	4	1	1	3.5	0.170
38	38	48	52	3	4	1	1	6.7	0.220
36	36.5	52	57	2	3.5	1	1	3.2	0.220
36	35.5	52	57	2	5	1	1	5.5	0.280
38.5	40	62	66	3	4.5	1.5	1.5	5.1	0.399
38.5	40	55	68	3	6.5	1.5	1.5	-2.9	0.95
38.5	39	59	66	3	5.5	1.5	1.5	9.8	0.579
41	41	50	52	3	4	0.6	0.6	3.2	0.130
41	39	54	59	4	4	1	1	2.8	0.220
43	43	54	59	3	4	1	1	6.2	0.520
42	42.5	61	67	3	3.5	1.5	1.5	2.8	0.320
42	42.5	61	67	3	5.5	1.5	1.5	6.4	0.430
43.5	42	61	68	5	6	1.5	1.5	9.6	0.542
44	43	68	74	3	6	2	1.5	5.8	0.540
45	44	66	76.5	3	7.5	2	1.5	-4.1	0.528
45	44	66	74	3	7.7	2	1.5	12.2	0.758

Bore diameter d: 40~50mm



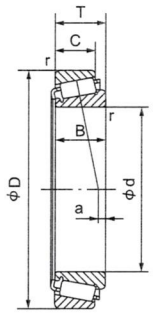
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
40	62	15	15	12	0.6	0.6	**32908**	32000	46000	5600	7600
	68	19	19	14.5	1	1	**32008**	52500	71500	5300	7200
	68	22	22	18	1	1	**33008**	59000	82000	5300	7200
	75	26	26	20.5	1.5	1.5	**33108**	77500	102000	5000	6700
	80	19.75	18	16	1.5	1.5	**30208**	63500	70500	4800	6500
	80	24.75	23	1.9	1.5	1.5	**32208**	78000	91500	4800	6500
	80	32	32	25	1.5	1.5	**33208**	108000	139000	5000	6700
	90	25.25	23	20	2	1.5	**30308**	90600	101000	4500	6100
	90	25.25	23	17	2	1.5	**31308**	80500	90200	3800	5300
	90	35.25	33	27	2	1.5	**32308**	116000	139000	4600	6200
45	68	15	15	12	0.6	0.6	**32909**	34500	57000	5100	6800
	75	20	20	15.5	1	1	**32009**	59500	86000	4800	6500
	75	24	24	19	1	1	**33009**	64500	99000	4800	6500
	80	26	26	20.5	1.5	1.5	**33109**	79500	108000	4600	6200
	85	20.75	19	16	1.5	1.5	**30209**	69500	81500	4400	6000
	85	24.75	23	19	1.5	1.5	**32209**	83500	102000	4400	6000
	85	32	32	25	1.5	1.5	**33209**	112000	149000	4600	6200
	100	27.25	25	22	2	1.5	**30309**	113000	128000	4100	5400
	100	27.25	25	18	2	1.5	**31309**	95100	107000	3400	4700
	100	38.25	36	30	2	1.5	**32309**	146000	180000	4100	5500
50	72	15	15	12	0.6	0.6	**32910**	35500	60500	4700	6300
	80	20	20	15.5	1	1	**32010**	62000	90500	4400	6000
	80	24	24	19	1	1	**33010**	67000	107000	4400	6000
	85	26	26	20	1.5	1.5	**33110**	84500	120000	4300	5700
	90	21.75	20	17	1.5	1.5	**30210**	79000	96000	4100	5500
	90	24.75	23	19	1.5	1.5	**32210**	88500	111000	4100	5500
	110	29.25	27	23	2.5	2	**30310**	137000	152000	3700	4900
	110	29.25	27	19	2.5	2	**31310**	115000	133000	3100	4300
	110	42.25	40	33	2.5	2	**32310**	176000	220000	3700	5000

Note : when load center is (-), and it is out of inner ring plane



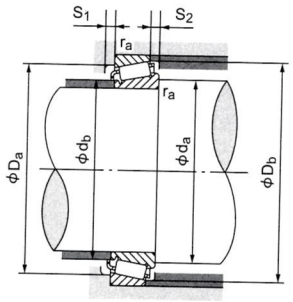
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
46	46	56	59	3	5	0.6	0.6	3.2	0.180
46	45	60	65	4	4.5	1	1	4.1	0.270
48	48	60	65	4	5	1	1	6.8	0.330
47	47	65	72	4	5	1.5	1.5	7.3	0.520
47	47.5	68	75	3	3.5	1.5	1.5	2.6	0.420
47	47	68	75	3	3.5	1.5	1.5	5.6	0.530
48.5	47	67	76	5	7	1.5	1.5	11.3	0.747
50	52	77	82	3	5	2	1.5	5.4	0.756
50	51	80	86	3	8	2	1.5	-4.6	0.744
50	50	73	82	3	8	2	1.5	10.9	1.04
51	51	61	65	3	5	0.6	0.6	2.7	0.20
51	50.5	67	72	4	4.5	1	1	3.6	0.34
53	53	66	71	4	5	1	1	7.3	0.44
52	52	69	77	4	5	1.5	1.5	6.1	0.56
52	52.5	73	80	3	4.5	1.5	1.5	2.3	0.47
52	52	73	80	3	5.5	1.5	1.5	4.4	0.58
53.5	52	76.5	81	5	7	1.5	1.5	10.2	0.803
55	59	86	82	3	5	2	1.5	5.9	0.999
55	56	90	96	3	9	2	1.5	-5.7	0.964
55	56	82	93	3	8	2	1.5	11.4	1.40
56	56	65	69	3	5	0.6	0.6	1.5	0.21
56	55	72	77	4	4.5	1	1	1.9	0.37
56	56	72	76	4	5	1	1	6.2	0.45
56	56	74	82	5	6	1.5	1.5	4.9	0.60
57	56.5	78	85	3	4.5	1.5	1.5	1.9	.53
57	56	78	85	3	6	1.5	1.5	3.2	0.61
62	65	95	102	3	6	2	2	6.4	1.29
62	62	87	105	3	10	2	2	-5.8	1.24
62	62	90	102	3	9	2	2	12.9	1.86

Bore diameter d: 55~65mm



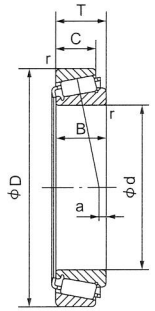
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
55	80	17	17	14	1	1	**32911**	47000	77000	4300	5700
	90	23	23	17.5	1.5	1.5	**32011**	82500	122000	4000	5400
	90	27	27	21	1.5	1.5	**33011**	86500	140000	4000	5400
	95	30	30	23	1.5	1.5	**33111**	114000	161000	3800	5200
	100	22.75	21	18	2	2	**30211**	94500	113000	3700	4000
	100	26.75	25	21	2	2	**32211**	110000	137000	3700	4000
	120	31.5	29	25	2.5	2	**30311**	148000	170000	3300	4400
	120	31.5	29	21	2.5	2	**31311**	129000	148000	2900	4000
	120	45.5	43	35	2.5	2	**32311**	200000	250000	3400	4500
60	85	17	17	14	1	1	**32912**	45500	76000	4000	5400
	95	23	23	17.5	1.5	1.5	**32012**	86100	127000	3900	5200
	95	27	27	21	1.5	1.5	**33012**	92500	148000	3700	5000
	100	30	30	23	1.5	1.5	**33112**	117000	166000	3600	4900
	110	23.75	22	19	2	1.5	**30212**	104000	123000	3400	4600
	110	29.75	28	24	2	1.5	**32212**	131000	167000	3400	4600
	130	33.5	31	26	3	2.5	**30312**	173000	201000	3100	4100
	130	33.5	31	22	3	2.5	**31312**	153000	179000	2600	3700
	130	48.5	46	37	3	2.5	**32312**		295000	3000	4100
65	90	17	17	14	1	1	**32913**	232000	87000	3700	5000
	100	23	23	17.5	1.5	1.5	**32013**	49500	137000	3600	4800
	100	27	27	21	1.5	1.5	**33013**	90000	160000	3500	4700
	110	34	34	26.5	1.5	1.5	**33113**	98000	223000	3400	4600
	120	24.75	23	20	2	1.5	**30213**	152000	156000	3200	4300
	120	32.75	31	27	2	1.5	**32213**	128000	200000	3100	4200
	120	41	41	32	2	1.5	**33213**	200000	277000	3200	4300
	140	36	33	28	3	2.5	**30313**	204000	239000	2800	3800
	140	36	33	23	3	2.5	**31313**	176000	209000	2400	3400
	140	51	48	39	3	2.5	**32313**	276000	357000	2900	3900

Note : when load center is (-), and it is out of inner ring plane



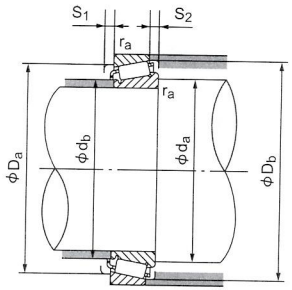
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
62	62	73	76	4	6	1	1	2.3	0.31
62	61.5	81	86	4	5.5	1.5	1.5	3.2	0.55
64	64	81	86	4	6	1.5	1.5	7.3	0.70
62	62	83	91	5	7	1.5	1.5	7.7	0.86
64	62.5	87	94	4	4.5	2	1.5	1.6	0.69
64	62	87	94	4	6	2	1.5	3.7	0.83
65	67	103	111	4	7	2	2	6.5	1.56
67	68	94	113	4	10.5	2	2	-6.9	1.58
67	68	99	111	4	10.5	2	2	13.1	2.35
67	67	77	81	4	6	1	1	1.2	0.33
68.5	67	85	91	4	5.5	1.5	1.5	2.0	0.609
68	68	85	90	5	6	1.5	1.5	6.5	0.73
66	66	88	97	5	7	1.5	1.5	6.5	0.94
69	68.5	95	102	4	4.5	2	1.5	1.2	0.86
69	67	95	105	4	6	2	1.5	4.7	1.14
74	77	112	150	4	7.5	2.5	2	6.5	2.03
74	73	103	123	4	11.5	2.5	2	-7.3	1.99
72	72	112	120	4	11	2.5	2	16.0	2.86
72	72	82	86	4	6	1	1	0.0	0.36
73.5	72	90	97	4	5.5	1.5	1.5	0.5	0.65
72	72	90	96	5	6	1.5	1.5	5.4	0.78
73.5	73	96	106	6	7.5	1.5	1.5	8.1	1.30
75	77	106	116	4	4.5	2	1.5	0.6	1.16
74	74	105	112	4	6	2	1.5	5.1	1.50
75	74	105	115	7	9	2	1.5	11	2.01
79	83	122	130	4	8	2.5	2	6.7	2.52
79	79	111	130	4	13	2.5	2	-8.3	2.43
79	80	117	130	4	12	2.5	2	16.3	3.64

Bore diameter d: 70~80mm



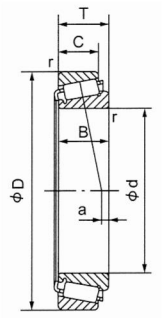
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
70	100	20	20	16	1	1	**32914**	70500	114000	3400	4600
	1100	25	25	19	1.5	1.5	**32014**	108000	163000	3300	4400
	110	31	31	25.5	1.5	1.5	**33014**	126000	198000	3200	4300
	120	37	37	29	2	1.5	**33114**	171000	246000	3000	4100
	125	26.25	24	21	2	1.5	**30214**	138000	173000	3100	4100
	125	33.25	31	27	2	1.5	**32214**	157000	205000	3000	4000
	150	38	35	30	3	2.5	**30314**	2300000	276000	2600	3500
	150	38	35	25	3	2.5	**31314**	197000	235000	2300	3200
	150	54	51	42	3	2.5	**32314**	317000	414000	2700	3600
75	105	20	20	16	1	1	**32915**	75000	127000	3200	4300
	115	25	25	19	1.5	1.5	**32015**	110000	169000	3100	4200
	115	31	31	25.5	1.5	1.5	**33015**	129000	206000	3000	4100
	125	37	37	29	2	1.5	**33115**	176000	260000	2900	3900
	130	27.25	25	22	2	1.5	**30215**	142000	181000	2900	3900
	130	33.25	31	27	2	1.5	**32215**	165000	221000	2800	3800
	160	40	37	31	3	2.5	**30315**	250000	297000	2500	3300
	160	40	37	26	3	2.5	**31315**	218000	261000	2200	3000
	160	58	55	45	3	2.5	**32315**	345000	169000	2500	3300
80	110	20	20	16	1	1	**32916**	72500	130000	3000	4100
	125	29	29	22	1.5	1.5	**32016**	147000	225000	2900	3900
	125	36	36	29.5	1.5	1.5	**33016**	157000	277000	2800	3800
	130	37	37	29	2	1.5	**33116**	191000	294000	2800	3800
	140	28.25	26	22	2.5	2	**30216**	161000	202000	2700	3600
	140	35.25	33	28	2.5	2	**32216**	192000	254000	2600	3500
	170	42.5	39	33	3	2.5	**30316**	233000	263000	2300	3100
	170	42.5	39	27	3	2.5	**31316**	236000	283000	2000	2800
	170	61.5	58	48	3	2.5	**32316**	380000	500000	2300	3100

Note : when load center is (-), and it is out of inner ring plane



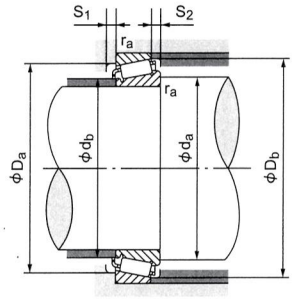
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
78	78	92	96	4	6	1	1	2.4	0.53
78.5	78	98	105	5	6	1.5	1.5	1.4	0.87
77	78	99	105	5	6	1.5	1.5	8.1	1.10
78	78	106	116	6	7	2	1.5	8.4	1.72
80	81	110	118	4	5	2	1.5	0.3	1.30
79	78	108	117	4	6	2	1.5	4.5	1.61
84	89	130	140	4	8	2.5	2	7.5	3.05
84	84	118	142	4	13	2.5	2	-9.1	2.95
84	86	125	140	4	12	2.5	2	16.6	4.43
82	82	97	101	5	7	1	1	1.3	0.56
83.5	83	103	110	5	6	1.5	1.5	-0.1	0.91
80	83	107	110	6	6	1.5	1.5	7.3	1.15
83	83	111	121	6	7	2	1.5	7.2	1.80
85	86	115	124	4	5	2	1.5	-0.3	1.39
84	83	113	123	4	6	2	1.5	3.4	1.70
89	95	139	149	4	9	2.5	2	8.1	3.52
87	88	125	152	5	12.5	2.5	2	-10.0	3.40
87	90	138	149	4	12.5	2.5	2	18.5	5.22
87	87	101	106	5	7	1	1	0.0	0.60
88.5	89	112	120	6	7	1.5	1.5	2.3	1.29
87	90	112	119	6	6.5	1.5	1.5	10.4	1.65
90	89	114	126	6	8	2	1.5	6.5	1.90
92	91	124	132	4	6	2	2	-0.3	1.68
90	88.5	122	132	4	8	2	2	3.8	2.04
98	98	147	159	4	9	2.5	2	9.5	4.05
92	93.5	132	160	5	12.5	2.5	2	-10.5	4.00
92	96	147	159	4	13	2.5	2	19.1	6.12

Bore diameter d: 85~95mm



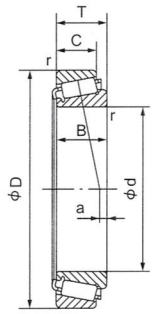
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
85	120	23	23	18	1.5	1.5	**32917**	95000	160000	2800	3800
	130	29	29	22	1.5	1.5	**32017**	150000	234000	2800	3700
	130	36	36	29.5	1.5	1.5	**33017**	172000	285000	2700	3600
	140	41	41	32	2.5	2.5	**33117**	215000	325000	2600	3500
	150	30.5	28	24	2.5	2	**30217**	182000	231000	2500	3400
	150	38.5	36	30	2.5	2	**32217**	212000	280000	2500	3300
	150	49	49	37	2.5	2	**33217**	294000	439000	2500	3400
	180	44.5	41	34	4	3	**30317**	260000	298000	2200	3000
	180	44.5	41	28	4	3	**31317**	237000	278000	1900	2700
	180	63.5	60	49	4	3	**32317**	410000	540000	2200	3000
90	125	23	23	18	1.5	1.5	**32918**	92500	167000	2600	3600
	140	32	32	24	2	1.5	**32018**	178000	267000	2600	3500
	140	39	39	32.5	2	2	**33018**	216000	355000	2500	3300
	150	45	45	35	2.5	2	**33118**	258000	413000	2500	3300
	160	32.5	30	26	2.5	2	**30218**	204000	261000	2400	3200
	160	42.5	40	34	2.5	2	**32218**	255000	345000	2300	3100
	190	46.5	43	36	4	3	**30318**	288000	330000	2000	2700
	190	46.5	43	30	4	3	**31318**	252000	297000	1800	2500
	190	67.5	64	53	4	3	**32318**	395000	500000	2000	2700
95	130	23	23	18	1.5	1.5	**32919**	102000	181000	2500	3400
	145	32	32	24	2	1.5	**32019**	182000	287000	2500	3300
	145	39	39	32.5	2	1.5	**33019**	226000	382000	2500	3300
	160	49	49	38	2.5	2.5	**33119**	287000	435000	2200	3000
	170	34.5	32	27	3	2.5	**30219**	231000	299000	2200	3000
	170	45.5	43	37	3	2.5	**32219**	285000	390000	2100	2900
	200	49.5	45	38	4	3	**30319**	330000	390000	1900	2600
	200	49.5	45	32	3	3	**31319**	265000	310000	1700	2400
	200	71.5	67	55	4	3	**32319**	450000	585000	1900	2600

Note : when load center is (-), and it is out of inner ring plane



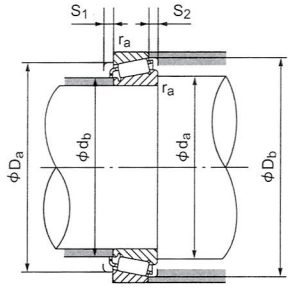
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
93	93	111	115	6	8	1.5	1.5	2.0	0.85
93.5	94	117	125	6	4	1.5	1.5	1	1.36
92	94	118	125	6	6.5	1.5	1.5	9.4	1.74
95	95	122	135	7	9	2	2	7.4	2.50
97	97	132	141	5	6.5	2	2	0.1	2.12
95	94	130	140	5	8	2	2	4.6	2.61
97	95	128	144	7	12	2	2	11.9	3.62
105	103	155	167	5	10	3	2.5	9.5	4.74
102	100	141	170	6	125.5	3	2.5	-10.5	4.60
99	101	155	167	5	14	3	2.5	19.9	6.80
97	97	116	120	6	8	1.5	1.5	2.0	0.89
100	100	125	134	6	8	2	1.5	2.2	1.76
99	100	127	135	7	8	2	1.5	10.6	2.20
102	100	130	144	7	10	2	2	9.6	3.13
102	103	140	150	5	6.5	2	2	-0.1	2.60
100	100	138	150	5	8	2	2	6.0	3.36
106	110	163	177	5	10	3	2.5	10.5	5.55
103	105	148	179	5	11	3	2.5	-10.5	5.40
105	107	160	177	4	13	3	2.5	23.5	8.05
102	102	121	125	6	8	1.5	1.5	-0.2	0.88
105	105	130	140	6	8	2	1.5	0.8	1.84
105	104	131	139	7	6.5	2	1.5	11.2	2.29
105	105	141	154	8	10	2	2	10.9	3.99
109	110	149	159	5	7.5	2.5	2	-0.4	3.14
107	106	146	158	5	10	2.5	2	6.6	4.06
110	114	171	186	5	11	3	2.5	10.5	6.55
110	114	155	186	3	14	3	2.5	-14.4	6.45
109	111	171	186	3	14	3	2.5	24.5	11.0

Bore diameter d: 100~110mm



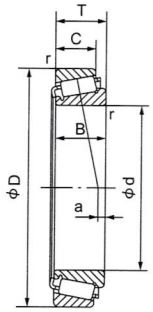
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
100	140	25	25	20	1.5	1.5	**32920**	117000	210000	2300	3200
	150	32	32	24	2	1.5	**32020**	185000	298000	2400	3200
	150	39	39	32.5	2	1.5	**33020**	231000	397000	2400	3200
	165	52	52	40	2.5	2.5	**33120**	305000	485000	2100	2900
	180	37	34	29	3	2.5	**30220**	258000	338000	2100	2800
	180	49	46	39	3	2.5	**32220**	315000	465000	2000	2700
	215	51.5	47	39	4	3	**30320**	365000	430000	1800	2400
	215	51.5	47	33	3	3	**31320**	288000	330000	1600	2200
	215	77.5	73	60	4	3	**32320**	465000	670000	1800	2400
105	145	25	25	20	1.5	1.5	**32921**	118000	216000	2300	3000
	160	35	35	26	2.5	2	**32021**	204000	330000	2100	2900
	160	43	43	34	2.5	2	**33021**	240000	400000	2100	2900
	175	56	56	44	2.5	2	**33121**	335000	530000	2000	2700
	190	39	36	30	3	2.5	**30221**	247000	310000	1900	2600
	190	53	50	43	3	2.5	**32221**	360000	510000	1900	2600
	225	53.5	49	41	4	3	**30321**	380000	450000	1700	2300
	225	53.5	49	36	4	3	**31321**	330000	395000	1400	2000
	225	81.5	77	63	4	3	**32321**	635000	870000	1700	2300
110	150	25	25	20	1.5	1.5	**32922**	119000	220000	2200	2900
	170	38	38	29	2.5	2	**32022**	235000	360000	2000	2700
	170	47	47	37	2.5	2	**33022**	273000	465000	2000	2700
	180	56	56	43	2.5	2	**33122**	345000	560000	1900	2600
	200	41	38	32	3	2.5	**30222**	310000	415000	1800	2400
	200	56	53	46	3	2.5	**32222**	395000	565000	1800	2400
	240	54.5	50	42	4	3	**30322**	395000	460000	1600	2100
	240	54.5	50	36	4	3	**31322**	370000	440000	1400	1900
	240	84.5	80	65	4	3	**32322**	600000	785000	1600	2100

Note : when load center is (-), and it is out of inner ring plane



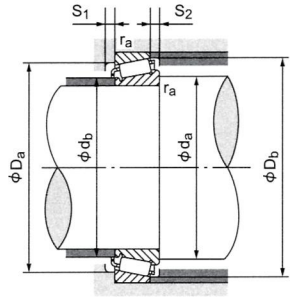
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
108	108	130	135	6	8	1.5	1.5	0.9	1.20
110	109	134	144	6	8	2	1.5	-0.6	1.92
110	108	135	143	7	6.5	2	1.5	10.4	2.39
109	109	144	160	8	10	2	2	11.2	4.13
114	116	157	168	5	8	2.5	2	0.2	3.76
112	112	155	168	5	10	2.5	2	7.2	4.99
118	124	183	198	5	12	3	2.5	11.5	8.00
115	119	181	200	5	13	3	2.5	-13.0	7.90
115	121	183	200	3	15	3	2.5	26.5	14.9
113	113	135	140	6	8	1.5	1.5	-0.2	1.25
115	113	143	154	6	9	2	2	0.8	2.42
115	116	144	153	7	9	2	2	11.7	3.05
115	116	150	169	9	11	2.5	2	12.1	5.43
117	121	163	178	6	9	2.5	2	2	4.15
117	118	163	178	6	10	2.5	2	7.7	5.90
125	130	193	209	6	12	3	2.5	9.4	9.30
124	128	193	212	5	11	3	2.5	-15.7	9.20
119	126	193	209	6	17	3	2.5	25.8	14.7
118	118	140	145	7	9	1.5	1.5	-1.6	1.29
120	119	152	163	7	9	2	2	1.5	3.06
121	121	154	161	7	9	2	2	13	3.89
120	121	155	174	9	13	2	2	10.8	5.55
122	125	171	188	6	9	2.5	2	0.6	5.00
122	124	171	188	6	10	2.5	2	8.5	6.90
130	135	205	222	5	12	3	2.5	8.6	10.7
130	133	205	222	4	14	3	2.5	-15.1	10.4
130	135	205	222	4	15	3	2.5	28.5	16.7

Bore diameter d: 120~150mm



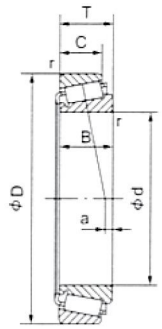
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
120	165	29	29	23	1.5	1.5	**32924**	149000	281000	1900	2600
	180	38	38	29	2.5	2	**32024**	241000	400000	1800	2500
	180	48	48	38	2.5	2	**33024**	281000	495000	1800	2500
	200	62	62	48	2.5	2	**33124**	435000	690000	1700	2300
	215	43.5	40	34	3	2.5	**30224**	325000	440000	1600	2200
	215	61.5	58	50	3	2.5	**32224**	420000	600000	1600	2200
	260	59.5	55	46	4	3	**303024**	460000	545000	1400	2000
	260	59.5	55	37	4	3	**31324**	405000	490000	1200	1700
	260	90.5	86	69	4	3	**32324**	815000	1140000	1400	2000
130	180	32	32	25	2	1.5	**32926**	193000	350000	1800	2400
	200	45	45	34	2.5	2	**32026**	315000	530000	1700	2300
	200	55	55	43	2.5	2	**33026**	390000	720000	1700	2300
	230	43.75	40	34	4	3	**30226**	325000	425000	1500	2100
	230	67.75	64	54	4	3	**32226**	480000	690000	1500	2100
	280	63.75	58	49	5	4	**30326**	535000	650000	1300	1800
	280	98.75	93	78	5	4	**32326**	815000	1130000	1300	1800
140	190	32	32	25	2	1.5	**32928**	199000	370000	1700	2300
	210	45	45	34	2.5	2	**32028**	320000	540000	1600	2100
	210	56	56	44	2.5	2	**33028**	345000	695000	1600	2100
	250	45.75	42	36	4	3	**30228**	370000	490000	1400	1900
	250	71.75	68	58	4	3	**32228**	560000	815000	1400	1900
	300	67.75	62	53	5	4	**31328**	595000	730000	1300	1700
	300	107.75	102	85	5	4	**32328**	980000	1430000	1300	1700
150	210	38	38	30	2.5	2	**32930**	255000	485000	1500	2100
	225	48	48	36	3	.25	**32030**	370000	645000	1500	2000
	225	59	59	46	3	2.5	**33030**	350000	800000	1500	2000
	270	49	45	38	4	3	**30230**	430000	565000	1300	1800
	270	77	73	60	4	3	**32230**	610000	900000	1300	1800
	320	72	65	55	5	4	**30330**	680000	850000	1200	1600
	320	114	108	90	5	4	**32330**	1160000	1750000	1200	1600

Note : when load center is (-), and it is out of inner ring plane



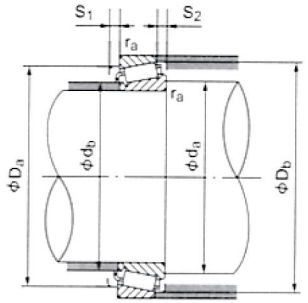
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
127	128	154	160	7	9	1.5	1.5	-0.3	2.21
130	128	161	173	7	9	2	2	-1.2	3.24
130	132	160	171	7	10	2	2	11.8	4.20
131	132	172	193	9	13	2	2	13.2	7.30
132	135	184	203	6	9	2.5	2	-1.1	6.01
132	134	184	204	6	11	2.5	2	9.5	8.45
140	145	220	239	6	12	3	2.5	10.5	13.5
140	145	220	241	5	14	3	2.5	-18.7	13.1
134	145	219	239	6	18	3	2.5	28	21.2
13	139	167	174	8	10	2	1.5	1.1	2.47
140	140	178	192	8	11	2	2	1.8	3.93
146	147	181	192	7	10	2	2	11.7	6.44
144	144	199	218	7	10	3	2.5	-1.25	6.50
144	144	199	220	5	11	3	2.5	10.75	10.4
148	163	239	258	6	12	4	3	-.05	16.7
148	157	238	263	3	12	4	3	28.55	25.8
149	149	177	184	9	11	2	1.5	-1.1	2.67
150	149	187	202	8	11	2	2	-0.8	5.23
155	156	190	202	7	10	2	2	11	6.88
154	157	215	237	10	12	3	2.5	-1.25	5.20
154	156	215	237	4	11	3	2.5	11.05	13.2
158	174	256	275	5	11	4	3	10.05	20.4
158	168	254	280	4	15	4	3	30.55	32.7
161	161	195	202	9	11	2	2	1.5	4.10
162	160	200	216	8	12	2.5	2	0.4	6.35
167	168	204	217	8	11	2.5	2	10.2	8.48
164	168	230	255	8	11	3	2.5	-2	10.2
164	168	230	255	5	14	3	2.5	13	16.8
168	189	275	295	6	14	4	3	10.6	24.9
168	183	268	300	5	15	4	3	32.4	38.8

Bore diameter d: 160~200mm



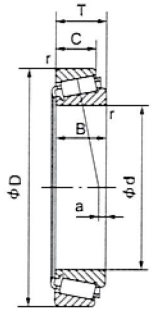
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
160	240	51	51	38	3	2.5	**32032**	425000	750000	1400	1900
	290	52	46	40	4	3	**30231**	455000	590000	1200	1600
	290	84	80	67	4	3	**32232**	710000	1110000	1200	1600
	340	75	68	58	5	4	**30332**	780000	1020000	1100	1500
	340	121	114	95	5	4	**32332**	1160000	1700000	1100	1500
170	260	57	57	43	3	2.5	**32034**	505000	885000	1300	1700
	310	57	52	43	5	4	**30234**	515000	715000	1100	1500
	310	91	86	71	5	4	**32234**	825000	1300000	1100	1500
	360	80	72	62	5	4	**30334**	890000	1120000	1000	1400
	360	127	120	100	5	4	**32334**	1210000	1780000	1000	1400
180	280	64	64	48	3	2.5	**32036**	635000	1120000	1200	1600
	320	57	52	43	5	4	**30236**	510000	675000	1100	1400
	320	91	86	71	5	4	**32236**	865000	1360000	1100	1400
	380	83	75	64	5	4	**30336**	915000	1150000	950	1300
	380	134	126	105	5	4	**32336**	1410000	2120000	950	1300
190	290	64	64	48	3	2.5	**32038**	645000	1160000	1100	1500
	340	60	55	46	5	4	**30238**	570000	795000	1000	1400
	340	97	92	75	5	4	**32238**	915000	1440000	1000	1400
	400	86	78	65	5	5	**30338**	1010000	1330000	900	1200
	400	140	132	109	5	5	**32338**	1530000	2310000	900	1200
200	310	70	70	53	3	2.5	**32040**	760000	1370000	1000	1400
	360	64	58	48	5	4	**30240**	635000	880000	9500	1300
	360	104	98	82	5	4	**32240**	1070000	1720000	950	1300
	420	89	80	67	5	5	**30340**	1090000	1450000	850	1200
	420	146	138	115	5	5	**32340**	1670000	2540000	850	1200

Note : when load center is (-), and it is out of inner ring plane



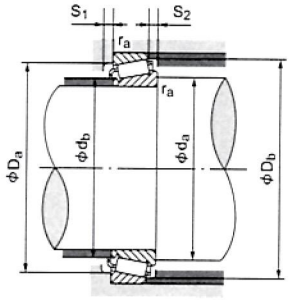
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
171	171	213	231	10	13	2.5	2	-1.2	7.8
174	184	250	275	9	12	3		-2.8	13.2
174	182	244	275	6	12	3	2.5	16	21.6
178	202	288	311	8	1	4	2.5	9	29.7
178	197	287	315	6	18	4	3	38	47.0
182	183	230	249	8	13	2.5	2	0.9	10.4
188	195	266	290	9	12	4	3	-4.8	16.5
188	193	264	295	6	12	4	3	17	26.9
188	209	307	330	8	15	4	3	13	35.4
188	207	292	330	8	18	4	3	39	36.9
196	197	247	267	11	15	2.5	2	5.2	14.4
198	206	276	301	9	12	4	3	-4.1	17.2
198	203	272	305	6	12	4	3	15.6	28.0
198	224	323	347	8	15	4	3	7	40.9
198	220	310	350	8	18	4	3	41	64.8
207	207	257	279	11	15	2.5	2	0.8	14.6
208	218	292	319	9	12	4	3	-4.2	20.9
208	216	290	330	6	12	4	3	15	33.9
212	237	339	364	8	16	5	4	11	46.9
212	231	327	368	8	18	5	4	42	74.8
217	220	273	297	11	16	2.5	2	3.8	20.0
218	229	308	336	9	12	4	3	-2	24.8
218	229	307	340	6	13	4	3	20	41.0
222	549	356	381	8	16	5	4	11	53.4
222	243	343	388	8	18	5	4	44	86.0

Bore diameter d: 220~300mm



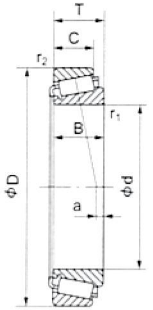
Principal dimensions							Designation	Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	Inner ring r(min)	Outer ring r(min)		Dynamic Cr(N)	Static Cor(N)	Grease	Oil
220	340	76	76	57	4	3	**32044**	890000	1560000	950	1300
	400	72	65	54	5	4	**30244**	825000	1240000	850	1200
	400	114	108	90	5	4	**32244**	1220000	1970000	850	1200
	460	97	88	73	5	5	**30344**	1310000	1780000	750	1000
	460	154	145	122	5	5	**32344**	1920000	2930000	750	1000
240	360	76	72	62	4	3	**32048**	740000	1410000	850	1200
	440	79	72	60	5	4	**30248**	965000	1400000	750	1000
	440	127	120	100	5	4	**32248**	1600000	2560000	750	1000
	500	105	95	80	5	5	**30348**	1510000	2060000	700	950
	500	165	155	132	5	5	**32348**	22200000	3400000	700	950
260	400	87	82	71	5	4	**32052**	1000000	1980000	800	1100
	480	89	80	67	6	5	**30252**	1240000	1800000	700	950
	480	137	130	106	6	5	**32252**	1880000	3050000	700	950
	540	113	102	85	6	6	**30352**	1750000	2060000	650	900
	540	176	165	136	6	6	**32352**	2540000	3950000	650	900
280	420	87	82	71	5	4	**32056**	1070000	2080000	750	1000
	500	89	80	67	6	5	**30256**	1270000	1910000	620	820
	500	137	130	106	6	5	**32256**	1780000	2990000	620	820
	580	119	108	90	6	6	**30356**	2010000	2790000	550	750
	580	187	175	145	6	6	**32356**	2900000	4500000	550	750
300	540	96	85	71	6	5	**30260**	1400000	2090000	570	780
	540	149	140	115	6	5	**32260**	2040000	3450000	570	780
320	580	104	92	6	6	5	**30264**	1690000	2580000	530	730
	580	159	150	6	6	5	**32264**	2600000	4300000	530	730

Note : when load center is (-), and it is out of inner ring plane



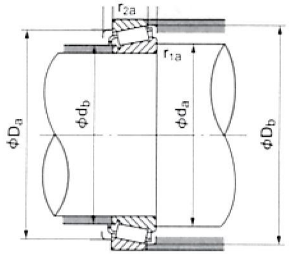
Abutment and fillet Dimensions, mm								Load Center (mm) a	Ref. Weight kg
d_a (min)	d_b (min)	D_a (max)	D_b (max)	S_1 (max)	S_2 (max)	Inner ring r(min)	Outer ring r(min)		
240	240	300	326	12	17	3	2.5	3.8	24.5
238	256	344	374	9	12	4	3	-9.9	34.7
238	250	334	375	6	13	4	3	12.1	56.0
242	273	391	418	10	18	5	4	12	69.6
242	267	375	423	10	18	5	4	43	108
261	260	318	346	12	19	3	2.5	2	24.9
258	282	379	410	9	12	4	3	-6	46.4
258	274	373	416	6	14	4	3	21	76.0
262	297	425	454	10	18	5	4	11	88.9
262	292	409	409	10	18	5	4	46	137
287	284	352	383	14	22	4	3	5.4	36.5
282	302	412	446	9	16	5	4	-4	62.5
282	298	409	453	6	15	5	4	24	98.1
288	322	461	492	10	19	5	5	14	111
288	315	444	444	10	24	5	5	48	187
305	304	370	405	14	22	4	3	4.3	39.0
302	323	432	467	9	16	5	4	-10	66.0
302	320	425	475	6	15	5	4	16	103
308	346	497	528	12	20	5	5	14	135
308	340	479	479	12	24	5	5	50	208
322	347	465	500	9	20	5	4	-13	83.5
322	343	456	510	6	15	5	4	17	132
342	373	500	436	9	22	5	4	-12	105
342	363	497	550	6	16	5	4	24	164

Bore diameter d: 15.875~25.000mm



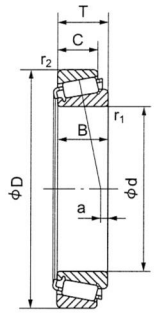
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
	34.988	10.998	10.998	8.712	1.3	1.3	L21549	L21511	13800	13400	11000	15000
15.875	42.862	14.288	14.288	9.525	1.5	1.5	11590	11520	17800	17800	8500	12000
16.993	39.992	12.014	11.153	9.525	0.8	1.3	A6067	A6157	14900	15700	10000	14000
17.462	39.878	13.843	14.605	10.668	1.3	1.3	LM11749	LM11710	23400	23000	10000	13000
17.463	39.878	13.843	14.605	10.668	1.2	1.2	LM11749R	Lm11710	25400	25000	8800	12000
	39.992	12.014	11.153	9.525	1.0	1.3	A6075	A6157	14900	15700	10000	14000
	45.237	15.494	16.637	12.065	1.3	1.3	LM11949	LM11910	29900	30500	9000	12000
	47.000	14.381	14.381	11.112	1.3	1.3	05075	05185	24900	25400	8500	11000
	49.225	18.034	19.050	14.288	1.3	1.3	09067	09195	37500	37500	8500	11000
19.050	49.255	210.209	19.050	17.463	1.3	1.5	09067	09196	37500	37500	8500	11000
	49.225	21.209	19.050	17.463	1.3	3.5	09067	09194	37500	37500	8500	11000
	49.225	19.845	21.539	14.288	1.3	1.3	09078	09195	37500	37500	8500	11000
	49.225	23.020	21.539	17.463	1.3	1.5	09078	09196	37500	37500	8500	11000
	49.255	23.020	21.539	17.463	1.3	3.5	09078	09194	37500	37500	8500	11000
	49.225	19.845	21.539	14.288	1.3	1.3	09074	09195	37500	37500	8500	11000
	49.225	23.020	21.539	17.463	1.3	1.5	09074	09196	37500	37500	8500	11000
	49.225	23.020	21.539	17.463	1.3	3.5	09074	09194	37500	37500	8500	11000
19.987	47.000	14.381	14.381	11.112	1.5	1.3	05079	05185	24900	25400	8500	11000
20.638	49.225	19.845	19.845	15.875	1.5	1.5	12580	12520	36000	37000	8000	11000
21.430	50.005	17.526	18.288	13.970	1.3	1.3	M12649	M12610	37000	37500	8000	11000
	45.237	15.494	16.637	12.065	1.27	1.27	Lm12749	Lm12710	30100	34600	7400	10000
22.000	45.237	15.494	16.637	12.065	1.3	1.3	LM12749	LM12710	28700	33000	8500	11000
	45.975	15.494	16.637	12.065	1.27	1.27	Lm12749	Lm12711	30100	34600	7400	10000
	50.005	13.495	14.260	9.525	1.3	1.0	07087	07196	26000	27700	7500	10000
	50.005	17.526	18.288	13.970	1.3	1.3	M12618	M12610	37000	37500	8000	11000
	52.388	15.011	14.260	12.700	1.3	1.3	07067	07204	26000	27700	7500	10000
22.225	52.388	19.368	20.168	14.288	1.5	1.5	1380	1328	42500	47500	7500	10000
	52.388	19.368	20.168	14.288	1.6	1.6	1380	1328	36700	37900	6700	9400
	57.150	22.225	22.225	17.463	0.8	1.6	1280	1220	52600	55700	6300	8900
23.812	56.896	19.368	19.837	15.875	0.8	1.3	1779	1729	40500	44000	7100	9500
	50.005	13.495	14.260	9.525	1.5	1.0	07098	07196	26000	27700	7500	10000
24.981	51.994	15.011	14.260	12.700	1.5	1.3	07098	07204	26000	27700	7500	10000
	50.005	13.495	14.260	9.525	1.5	1.0	07097	07196	26000	27700	7500	10000
25.000	51.994	15.011	14.260	12.700	1.5	1.3	07097	07204	26000	27700	7500	10000

Note : when load center is (-), and it is out of inner ring plane



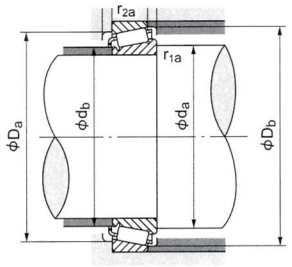
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
21.5	19.5	29.0	32.5	1.3	13	3.3	0.033	0.019
24.5	22.5	34.5	39.5	1.5	15	1.1	0.060	0.040
22.0	21.0	34.0	37.0	0.8	13	1.5	0.040	0.032
23.0	21.5	34.0	37.0	1.3	13	5.2	0.055	0.026
23.0	21.5	34.0	37.0	1.2	12	5.1	0.058	0.028
24.0	23.0	34.0	37.0	1.0	13	1.5	0.037	0.032
25.0	23.5	39.5	41.5	1.3	13	5.6	0.080	0.045
25.0	23.5	40.5	42.5	1.3	13	3.9	0.074	0.046
25.5	24.0	42.0	44.5	1.3	13	9.1	0.110	0.065
25.5	24.0	41.5	44.5	1.3	15	7.3	0.110	0.085
25.5	24.0	41.5	44.5	1.3	35	7.3	0.110	0.081
25.5	24.0	42.0	44.5	1.3	13	9.1	0.110	0.065
25.5	24.0	41.5	44.5	1.3	15	7.3	0.110	0.085
25.5	24.0	41.5	44.5	1.3	35	7.3	0.110	0.081
25.5	24.0	42.0	44.5	1.3	13	9.1	0.110	0.065
25.5	24.0	41.5	44.5	1.3	15	7.3	0.110	0.085
25.5	24.0	41.5	44.5	1.3	35	7.3	0.110	0.081
26.5	24.0	40.5	42.5	1.5	13	3.9	0.070	0.046
28.5	26.0	42.5	45.5	1.5	15	7.1	0.115	0.066
27.5	25.5	44.0	46.0	1.3	13	6.4	0.110	0.059
27.5	26.0	40.0	42.5	1.2	12	5.5	0.073	0.038
27.5	26.0	39.5	42.5	1.3	13	5.4	0.079	0.039
27.5	26.0	40.0	42.5	1.2	12	5.5	0.078	0.043
28.5	27.0	44.5	47.0	1.3	10	2.9	0.095	0.035
28.5	26.5	44.0	46.0	1.3	13	6.4	0.107	0.059
28.5	27.0	44.5	47.0	1.3	13	4.4	0.094	0.060
29.5	29.7	45.0	48.5	1.5	15	7.6	0.130	0.067
29.5	29.5	45.0	48.5	1.6	16	7.7	0.131	0.068
29.5	29.0	49.0	52.0	0.8	16	7.9	0.188	0.107
29.5	28.5	49.0	51.0	0.8	13	6.8	0.143	0.100
31.0	29.0	44.5	47.0	1.5	10	2.9	0.085	0.035
31.0	29.0	45.0	48.0	1.5	13	2.9	0.085	0.060
31.0	29.0	44.5	47.0	1.5	10	2.9	0.096	0.035
31.0	29.0	45.0	48.0	1.5	13	2.9	0.096	0.060

Bore diameter d: 25.400~30.213mm



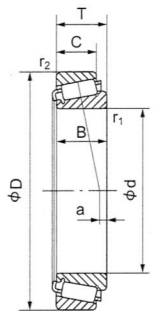
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
25.400	50.005	13.495	14.260	9.525	1.0	1.0	**07100**	**07196**	26000	27700	7500	10000
	50.292	14.224	14.732	10.668	1.2	1.2	**L44643R**	**L44610**	31200	37000	6500	9100
	50.292	14.224	14.732	10.668	1.3	1.3	**L44643**	**L44610**	28500	34000	7300	10000
	51.994	15.011	14.260	12.700	1.0	1.3	**07100**	**07204**	26000	27700	7500	10000
	62.000	19.050	50.638	14.288	0.8	1.3	**15101**	**15245**	45000	54500	6000	8000
	62.000	19.050	20.638	14.288	3.5	1.3	**15100**	**15245**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	0.8	1.3	**15101**	**15250**	45000	54500	6000	8000
	63.500	19.050	20.638	15.875	3.5	1.3	**15100**	**15250**	45000	54500	6000	8000
	65.088	22.225	21.463	15.875	1.5	1.5	**23100**	**23256**	43000	45000	5600	8000
26.988	50.282	14.224	14.732	10.668	3.5	1.3	**44649**	**44610**	28500	34000	7300	10000
	51.150	17.462	17.462	13.495	3.5	1.5	**15580**	**15520**	42500	49000	6700	9000
	62.000	19.050	20.638	14.288	0.8	1.3	**45106**	**15245**	45000	54500	6000	8000
28.575	57.150	19.845	19.355	15.875	3.6	1.6	**1988R**	**1922**	48800	57100	5800	8200
	68.263	22.225	22.225	17.463	0.8	1.6	**02474**	**02420**	51000	61100	5000	7000
	73.025	22.225	22.225	17.462	0.8	3.3	**02872**	**02820**	55000	65500	5200	7000
29.985	62.000	16.002	16.566	14.288	1.5	1.5	**17118**	**17244**	35000	36000	6300	8500
30.000	62.000	19.050	20.638	14.288	1.3	1.3	**15117**	**15245**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	1.3	1.3	**15117**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	1.3	1.5	**15117**	**15250**	45000	54500	6000	8000
	72.085	22.385	19.205	18.415	0.8	2.4	**14118**	**14283**	46100	55000	4900	6900
30.162	64.292	21.433	21.433	16.670	1.5	1.5	**M86649**	**M86610**	55000	72500	6000	8000
30.163	64.292	21.433	21.433	16.670	1.57	1.57	**M86649R**	**M86610**	55200	70700	5300	7500
30.213	62..000	19.050	20.638	14.288	0.8	1.3	**15120**	**15245**	45000	54500	6000	8000
	62.000	19.050	20.638	14.288	3.5	1.3	**15118**	**15245**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	0.8	1.3	**12120**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	3.5	1.3	**15118**	**15250**	45000	54500	6000	8000

Note : when load center is (-), and it is out of inner ring plane



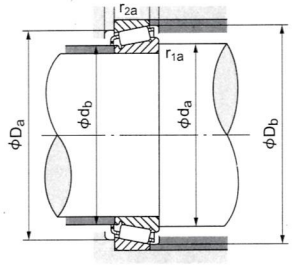
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
30.5	29.5	44.5	47.0	1.0	1.0	2.9	0.080	0.035
31.5	29.5	44.5	47.0	1.2	1.2	3.2	0.092	0.040
31.5	29.5	44.5	47.0	1.3	1.3	3.3	0.085	0.038
30.5	44.5	45.0	48.0	1.0	1.3	4.4	0.080	0.060
32.5	31.5	55.0	58.0	0.8	1.3	5.8	0.215	0.080
38.0	31.5	55.0	58.0	3.5	1.3	4.3	0.215	0.080
32.5	31.5	56.0	58.0	0.8	1.3	7.4	0.215	0.114
38.0	31.5	56.0	58.0	3.5	1.3	4.3	0.215	0.114
39.0	34.6	53.0	61.0	1.5	1.5	2.2	0.210	0.143
37.5	31.0	44.5	47.0	3.5	1.3	3.3	0.080	0.038
38.5	32.0	51.0	53.0	3.5	1.5	2.8	0.135	0.070
33.5	33.0	55.0	58.0	0.8	1.3	5.8	0.205	0.080
39.5	33.5	51.0	53.5	3.6	1.6	5.9	0.151	0.077
36.5	36.0	59.0	63.0	0.8	1.6	5.1	0.251	0.153
37.5	37.0	62.0	68.0	0.8	3.3	3.8	0.313	0.158
37.0	35.0	54.0	57.0	1.5	1.5	3.5	0.137	0.090
36.5	35.0	55.0	58.0	1.3	1.3	5.8	0.180	0.080
36.5	35.0	56.0	59.0	1.3	1.3	5.8	0.180	0.114
35.5	35.0	55.0	59.0	1.3	1.5	5.8	0.180	0.114
52.0	43.0	54.0	62.0	0.8	2.4	4.4	0.238	0.198
41.0	38.2	54.0	61.0	1.5	1.5	3.3	0.210	0.125
41.0	38.0	54.0	61.0	1.6	1.6	3.4	0.213	0.128
36.0	35.5	55.0	58.0	0.8	1.3	5.8	0.183	0.080
41.5	35.5	55.0	58.0	3.5	1.3	5.8	0.178	0.080
36.0	35.0	56.0	58.0	0.8	1.3	7.4	0.183	0.114
41.5	35.5	56.0	58.0	3.5	1.3	7.4	0.178	0.114

Bore diameter d: 31.750~36.512mm



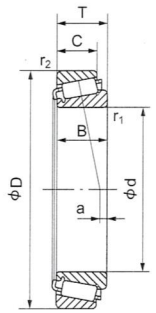
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
31.750	59.131	15.875	16.764	11.811	1.3	1.3	**LM67048**	**LM67010**	36500	435000	6000	8500
	62.000	18.161	19.050	14.288	1.3	1.3	**15123**	**43500**	43500	51500	6000	8000
	62.000	19.050	20.638	14.288	0.8	1.3	**12126**	**15245**	45000	54500	6000	8000
	62.000	19.050	20.638	14.288	3.5	1.3	**15125**	**15245**	45000	54500	6000	8000
	63.500	20.638	19.050	15.875	1.3	1.3	**15123**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	0.8	1.3	**15126**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	0.8	1.5	**15126**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	3.5	1.3	**15125**	**15250**	45000	54500	6000	8000
	63.500	20.638	20.638	15.875	3.5	1.5	**15125**	**15250**	45000	54500	6000	8000
	66.421	25.400	25.357	20.638	0.8	3.2	**2580**	**2520**	71400	85100	5000	7000
	68.263	22.225	22.225	17.463	3.6	1.6	**02475**	**02420**	51000	61100	5000	7000
	69.012	19.845	19.583	15.875	3.5	1.3	**14125A**	**14276**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	3.5	3.3	**14125A**	**14274**	44500	55000	5500	7500
	69.850	23.812	25.357	19.050	0.8	1.3	**2580**	**2523**	70000	84000	5600	7500
33.338	68.262	22.225	22.225	17.462	0.8	1.5	**M88048**	**M88010**	56500	71500	5600	7500
	69.012	19.845	19.583	15.875	0.8	1.2	**14131**	**14276**	46100	55000	4900	6900
	69.012	19.845	19.583	15.875	3.5	1.3	**14130**	**14276**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	3.5	3.3	**14130**	**14276**	44500	55000	5500	7500
34.925	65.088	18.034	18.288	13.970	1.3	1.3	**LM48548**	**LM48510**	48500	59000	5600	7500
	69.012	19.845	19.583	15.875	1.5	1.3	**14137A**	**14276**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	1.5	3.3	**14137A**	**14274**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	3.5	1.3	**14138A**	**14276**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	3.5	3.3	**14138A**	**14274**	44500	55000	5500	7500
	69.012	19.845	19.583	15.875	3.6	1.2	**14138A**	**14276**	46100	55000	4900	6900
	72.233	25.400	25.400	19.842	2.4	2.4	**Hm88649**	**Hm88610**	66900	87400	4700	6600
	73.025	23.812	24.608	19.050	1.5	0.8	**25877**	**25821**	73000	88500	5200	7100
	73.025	23.813	24.608	19.050	1.6	0.8	**25877R**	**25821**	72200	87300	4600	6500
	76.200	29.370	28.575	23.812	1.5	3.3	**31597**	**31520**	80000	96000	5000	6800
	76.200	29.370	28.575	23.813	3.6	3.3	**31593**	**31520**	80900	97400	4500	6300
	80.167	29.370	30.391	23.813	3.6	32	**3379**	**3320**	91000	106000	4200	5900
34.987	59.131	15.875	16.764	11.938	1.3	1.27	**L68149**	**L68110**	35700	48500	5300	7500
	59.975	15.875	16.764	11.938	1.3	1.27	**L68149**	**L68111**	35700	48500	5300	7500
35.000	59.131	15.875	16.764	11.938	1.3	1.3	**L68149**	**34000**	34000	46000	6000	8000
36.512	73.025	23.812	24.608	19.050	1.5	0.8	**25880**	**25821**	73000	88500	5200	7100
36.487	69.012	19.050	19.050	15.083	3.5	0.8	**13682**	**13620**	47000	60000	5300	7100
	76.200	29.370	28.575	23.020	3.5	3.3	**HM89449**	**HM89410**	79500	108000	5000	6800
	85.725	30.162	30.162	23.813	0.8	3.3	**3879**	**3820**	91000	115000	4300	6000

Note : when load center is (-), and it is out of inner ring plane



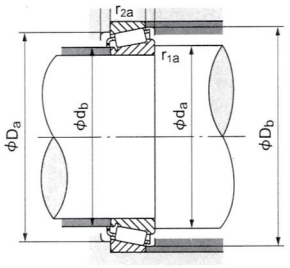
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
42.5	36.0	52.0	56.0	3.5	1.3	2.9	0.120	0.062
42.5	36.5	55.0	58.0	3.5	1.3	5.0	0.155	0.080
37.0	36.5	55.0	58.0	0.8	1.3	5.8	0.167	0.080
42.5	36.5	55.0	58.0	3.5	1.3	5.8	0.165	0.080
42.5	36.5	56.0	59.0	3.5	1.3	7.4	0.155	0.114
37.0	36.5	56.0	59.0	0.8	1.3	7.3	0.167	0.114
37.0	36.5	55.0	59.0	0.8	1.5	7.3	0.167	0.114
42.5	36.5	56.0	59.0	3.5	1.3	7.3	0.165	0.114
42.5	36.5	55.0	59.0	3.5	1.5	7.3	0.165	0.114
38.5	37.5	57.0	62.8	0.8	3.2	9.4	0.279	0.128
44.5	38.5	59.0	63.0	3.6	1.6	5.1	0.223	0.153
44.0	37.5	60.0	63.0	3.5	1.3	4.3	0.220	0.135
44.0	37.5	59.0	63.0	3.5	3.3	4.3	0.220	0.130
38.5	37.5	61.0	64.0	0.8	1.3	8.6	0.290	0.165
42.5	41.2	58.0	65.0	0.8	1.5	2.8	0.230	0.090
52.0	13.0	60.0	63.0	0.8	1.2	4.4	0.201	0.136
45.0	38.5	60.0	63.0	3.5	1.3	4.3	0.210	0.135
45.0	38..0	59.0	63.0	3.5	3.3	4.3	0.210	0.130
46.0	40.0	58.0	61.0	3.5	1.3	3.7	0.160	0.085
42.0	40.0	60.0	63.0	1.5	1.3	4.3	0.160	0.135
42.0	40.0	59.0	63.0	1.5	3.3	4.3	0.190	0.130
46.0	40.0	60.0	63.0	3.5	1.3	4.3	0.189	0.135
46.0	40.0	59.0	63.0	3.5	3.3	4.3	0.189	0.130
52.0	43.0	60.0	63.0	3.6	1.2	4.4	0.185	0.136
48.5	42.5	60.0	69.0	2.4	2.4	4.7	0.305	0.189
47.0	40.5	64.0	68.0	1.5	0.8	8.1	0.310	0.165
43.0	40.5	65.0	68.0	1.6	0.8	8.2	0.309	0.167
46.0	43.5	64.0	72.0	1.5	3.3	7.7	0.400	0.230
55.0	45.0	64..0	72.0	3.6	3.2	7.8	0.383	0.238
59.0	48.0	66.0	75.0	3.6	3.2	10.7	0.503	0.220
45.5	39.0	53.0	56.0	3.5	1.2	2.7	0.112	0.057
45.5	39.0	53.0	56.0	3.5	1.2	2.7	0.112	0.064
45.5	39.0	52.0	56.0	3.5	1.3	2.5	0.110	0.055
44.0	42.0	65.0	68.0	1.5	0.8	8.1	0.300	0.165
49.5	43.0	62.0	65.0	3.5	0.8	3.0	0.190	0.105
54.0	44.6	62.0	73.0	3.5	3.3	5.6	0.370	0.250
57.0	50.3	73.0	81.0	0.8	3.3	8.2	0.525	0.280

Bore diameter d: 36.513~42.875mm



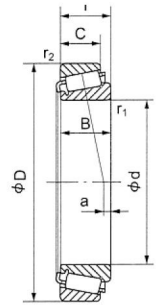
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
36.513	93.663	31.750	31.750	26.195	1.6	3.2	**46143**	**46368**	105000	134000	3600	5100
38.000	63.000	17.000	17.000	13.500	3.56	1.27	**JI69349**	**JI69310**	43500	58200	5000	7000
	63.500	12.700	11.908	9.525	1.5	0.8	**13889**	**13830**	27200	34000	5400	7300
	65.088	18.034	18.288	13.70	2.3	1.3	**LM29749**	**LM29710**	45000	60000	5400	7500
	65.088	18.034	18.288	13.970	2.36	1.17	**Lm29749**	**Lm29710**	42900	56500	4900	6800
	65.088	18.034	18.288	13.970	1.2	1.17	**Lm29748**	**Lm29710**	42900	56500	4900	6800
	69.012	19.050	19.050	15.083	3.5	2.3	**13685**	**13621**	47000	60000	5300	7100
38.100	76.200	23.812	25.654	19.050	3.5	0.8	**2788**	**2729**	68000	81000	5000	6700
	76.200	23.812	25.654	19050	3.5	3.3	**2788**	**2720**	68000	81000	5000	6700
	76.200	23.813	25.654	19.050	3.6	3.2	**2788R**	**2720**	74100	82200	4500	6300
	79.375	23.813	25.400	19.050	0.8	0.8	**26878R**	**26822**	81100	105000	4200	5900
	79.375	29.370	29.771	23.813	3.6	3.2	**3490**	**3420**	87400	105000	4300	6100
	80.167	29.370	30.391	23.812	3.5	3.3	**3381**	**3320**	86000	106000	4800	6400
	88.501	26.988	29.083	22.225	3.6	1.6	**418**	**414**	98100	112000	4000	5700
	73.025	23.812	25.654	19.050	3.5	0.8	**2789**	**2735**	68000	81000	5000	6700
39.688	73.025	25.654	22.098	21.336	0.8	2.3	**M201047**	**M201011**	63000	81000	5000	6700
	76.200	26.813	25.654	19.050	3.6	3.2	**2789R**	**2720**	74100	92200	4500	6300
40.987	67.975	17.500	18.000	13.500	1.6	1.6	**Lm300849**	**Lm300311**	44000	59500	4600	6500
	73.025	16.667	17.462	12.700	3.5	1.5	**18590**	**18520**	46500	57000	4800	6700
	73.025	16.667	17.463	12.700	3.6	1.6	**18590**	**18520**	45900	55800	4300	6100
	73.431	19.558	19.812	14.732	3.5	0.8	**LM501349**	**LM501310**	55500	69000	4900	6700
	73.431	19.558	19.812	14.732	3.6	0.8	**Lm501349**	**Lm501310**	57800	73000	4400	6100
	73.431	21.430	19.812	16.604	3.6	0.8	**Lm501349**	**Lm501314**	57800	73000	4400	6100
	76.200	18.009	17.384	14.288	1.6	1.6	**11162R**	**11300**	51600	63300	4300	6000
41.275	76.200	22.225	23.020	17.462	3.5	0.8	**24780**	**24720**	63500	78500	4800	6600
	76.200	25.400	23.020	20.638	3.6	2.4	**24780R**	**24721**	66300	83300	4000	5600
	79.375	23.812	25.400	19.050	3.5	0.8	**26882**	**26822**	75000	94500	4700	6300
	80.167	25.400	25.400	20.638	3.6	3.2	**26882R**	**26820**	81100	105000	4200	5900
	80.167	29.370	30.391	23.813	0.8	3.2	**3384**	**3320**	91000	106000	4200	5900
	87.313	30.163	30.886	23.813	1.6	3.2	**3585R**	**3525**	95800	120000	3900	5400
	90.488	39.688	40.386	33.338	3.6	3.2	**4388**	**4335**	132000	169000	3800	5600
42.863	87.313	30.163	30.886	23.813	3.6	3.2	**3579R**	**3525**	95800	120000	3900	5400
	80.000	21.000	22.406	17.826	3.5	1.3	**342S**	**332**	69000	76000	4500	6300
42.875	82.931	23.812	25.400	19.050	3.5	0.8	**25577**	**25520**	78500	98000	4500	6000
	82.931	26.988	25.400	22.225	3.5	2.3	**25577**	**25523**	78500	98000	4500	6000
	83.058	23.812	25.400	19.050	3.5	3.3	**25577**	**25521**	78500	98000	4500	6000

Note : when load center is (-), and it is out of inner ring plane



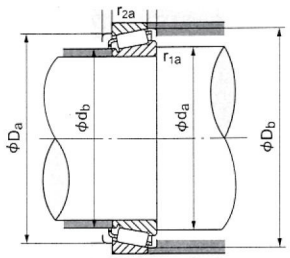
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
68.0	56.0	72.0	86.0	1.6	3.2	7.7	0.728	0.412
49.0	41.0	60.0	56.5	3.5	1.2	2.4	0.128	0.072
45.0	42.5	59.0	60.0	1.5	0.8	0.8	0.108	0.045
46.0	42.5	59.0	62.0	2.3	1.3	4.2	0.155	0.080
46.0	42.5	59.0	62.0	2.4	1.2	4.3	0.158	0.080
49.0	42.5	59.0	62.0	3.5	1.2	4.3	0.154	0.080
49.5	43.0	61.0	65.0	3.5	2.3	3.0	0.185	0.103
50.0	43.5	68.0	70.0	3.5	0.8	8.0	0.310	0.187
50.0	43.5	66.0	70.0	3.5	3.3	8.0	0.310	0.185
50.0	43.5	61.0	69.0	3.6	3.2	8.1	0.305	0.190
60.0	50.0	65.0	73.0	0.8	0.8	7.5	0.397	0.185
52.0	45.9	67.0	74.0	3.6	3.2	8.6	0.415	0.262
46.5	45.5	70.0	74.8	3.5	3.3	18.5	0.445	0.215
51.0	44.5	77.0	80.0	3.6	1.6	10.1	0.522	0.329
52.0	45.0	65.0	70.0	3.5	0.8	8.0	0.290	0.170
45.5	47.8	64.0	69.0	0.8	2.3	5.9	0.255	0.183
52.0	45.0	61.0	69.0	3.6	3.2	8.1	0.285	0.190
55.0	47.0	58.0	64.0	3.5	1.6	3.6	0.157	0.082
53.0	46.0	66.0	69.0	3.5	1.5	2.8	0.208	0.084
53.0	46.0	66.0	69.0	3.6	1.6	2.2	0.198	0.087
53.0	46.8	67.0	70.0	3.5	0.8	3.4	0.220	0.108
53.0	46.5	46.5	70.0	3.6	0.8	3.5	0.226	0.109
53.0	46.5	46.5	69.0	3.6	0.8	3.5	0.226	0.129
49.0	46.5	46.5	72.0	1.6	1.6	0.5	0.219	0.130
54.0	47.0	47.0	72.0	3.5	0.8	1.6	0.275	0.189
54.0	47.0	47.0	72.0	3.6	2.4	4.8	0.271	0.191
54.0	47.0	47.0	74.0	3.5	0.8	7.5	0.340	0.185
60.0	50.0	50.0	73.0	3.6	3.2	7.5	0.350	0.223
59.0	48.0	48.0	75.0	0.8	3.2	10.7	3.416	0.220
63.0	54.0	54.0	81.0	1.6	3.2	9.7	0.527	0.308
57.0	54.0	54.0	85.0	3.6	3.2	14.1	0.767	0.463
63.0	54.0	54.0	81.0	3.6	3.2	9.7	0.499	0.308
54.0	47.5	47.5	75.0	3.5	1.3	6.2	0.295	0.145
50.0	49.0	49.0	77.0	3.5	0.8	6.2	0.380	0.200
55.0	49.0	49.0	77.0	3.5	2.3	9.4	0.380	0.245
55.0	49.0	49.0	77.0	3.5	3.3	6.2	0.380	0.199

Bore diameter d: 44.450~50.00mm



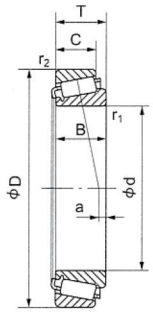
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
44.450	82.931	23.812	25.400	19.050	3.5	0.8	**25580**	**25520**	78500	98000	4500	6000
	82.931	26.988	25.400	22.225	3.5	2.3	**25580**	**25523**	78500	98000	4500	6000
	83.058	23.812	25.400	19.050	3.5	3.3	**25580**	**25521**	78500	98000	4500	6000
	87.312	60.162	30.886	23.812	3.5	3.3	**3578**	**3525**	90000	110000	4300	6000
	87.313	30.163	30.886	23.813	3.6	3.2	**3548R**	**3525**	95800	120000	3900	5400
	88.900	30.163	29.370	23.020	3.6	3.3	**HM803149**	**HM803110**	99600	128000	3800	5400
	90.119	23.000	21.926	21.808	3.6	2.4	**355X**	**352**	71800	81700	3800	5400
	92.075	30.163	29.370	23.020	3.6	3.2	**HM803149**	**HM803112**	99600	125000	3800	5440
	93.264	30.163	30.302	23.813	3.6	3.2	**3782**	**3720**	103000	137000	3500	4900
	95.250	30.958	28.575	22.225	3.6	0.8	**HM903249**	**HM903210**	99700	120000	3700	5100
	95.250	30.958	28.301	20.638	1.2	0.8	**53176**	**53375**	88700	98400	3700	5200
	112.713	30.163	26.909	50.638	3.5	3.3	**55175**	**55443**	92000	108000	3100	4300
	114.300	44.450	44.450	34.925	3.6	3.2	**65385**	**65320**	189000	230000	3100	4400
44.983	93.264	30.163	30.302	23.813	3.6	3.2	**3776**	**3720**	103000	137000	3500	4900
45.242	73.431	19.558	19.812	15.748	3.5	0.8	**LM102949**	**LM102910**	55500	78000	4700	6400
	77.788	198.542	19.842	15.080	3.6	0.8	**LM603049**	**LM603011**	57100	73500	4100	5700
	77.788	21.430	19.842	16.667	3.6	0.8	**LM606049**	**LM603012**	57100	73500	4100	5700
45.618	82.931	23.812	25.400	19.050	3.5	0.8	**25590**	**25520**	78500	98000	4500	6000
	82.931	26.988	25.400	22.225	3.5	2.3	**25590**	**25523**	78500	98000	4500	6000
46.038	79.375	17.463	17.463	13.495	2.8	1.6	**18690**	**18620**	47100	59100	4000	5600
	85.000	20.638	21.692	17.462	2.3	1.3	**359S**	**354A**	69000	78000	4300	6000
47.625	93.264	30.163	30.302	23.813	3.6	3.2	**37790**	**3720**	103000	137000	3500	4900
	101.600	34.925	36.068	26.988	3.5	3.3	**528**	**522**	139000	171000	3700	5000
	107.950	36.513	36.957	28.575	3.6	3.2	**536**	**532X**	138000	172000	3200	4400
	111.125	30.162	26.909	20.638	3.5	3.3	**55187**	**55437**	92000	108000	3100	4300
49.212	93.264	30.162	30.302	23.812	3.5	0.8	**3781**	**3730**	102000	134000	3800	5300
	103.188	43.658	44.475	36.512	3.5	3.3	**5395**	**5335**	177000	245000	3700	5000
	114.300	44.450	44.450	36.068	3.5	3.3	**HH506348**	**HH506310**	199000	243000	3500	4700
50.000	82.000	21.500	21.500	17.000	3.0	0.5	**JLM104948**	**JLM104910**	71700	97900	3800	5300

Note : when load center is (-), and it is out of inner ring plane



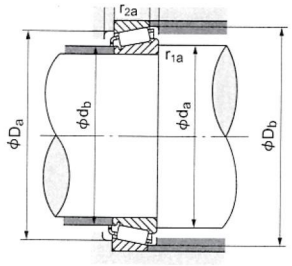
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
57.0	50.0	74.0	77.0	3.5	0.8	6.2	0.355	0.200
57.0	50.0	72.0	77.0	3.5	2.3	9.4	0.355	0.245
57.0	50.0	72.0	77.0	3.5	3.3	6.2	0.355	0.100
57.0	51.0	72.0	81.0	3.5	3.3	10.2	0.476	0.305
57.0	51.0	75.0	81.0	3.6	3.2	9.7	0.476	0.308
62.0	53.4	75.0	85.0	3.6	3.2	4.1	0.547	0.326
63.0	55.0	74.0	80.0	3.6	2.4	5.1	0.336	0.325
62.0	53.4	72.0	84.0	3.6	3.2	4.1	0.517	0.407
71.0	59.0	67.0	88.0	3.6	3.2	8.0	0.651	0.296
65.0	54.0	82.0	91.0	3.6	0.8	0.1	0.609	0.389
59.0	52.5	81.0	89.0	1.2	0.8	1.0	0.557	0.367
67.0	60.0	84.0	105.0	3.5	3.3	-71	0.820	0.500
79.0	59.0	97.0	107.0	3.6	3.2	12.5	1.466	0.884
59.0	53.0	82.0	88.0	3.6	3.2	8.0	0.642	0.296
56.0	50.0	98.0	70.0	3.5	0.8	4.7	0.208	0.100
57.0	50.0	71.0	74.0	3.6	0.8	2.3	0.242	0.122
57.0	50.0	71.0	74.0	3.6	0.8	2.3	0.241	0.141
58.0	51.0	74.0	77.0	3.5	0.8	6.2	0.340	0.200
58.0	51.0	72.0	77.0	3.5	2.3	6.2	0.340	0.245
56.0	51.0	71.0	74.0	2.8	1.6	1.5	0.206	0.126
55.0	51.0	77.0	80.0	2.3	1.3	4.9	0.330	0.160
71.0	59.0	82.0	88.0	3.6	3.2	8.0	0.596	0.296
62.0	55.0	89.0	95.0	3.5	3.3	12.7	0.890	0.410
76.0	64.0	94.0	100.0	3.6	3.2	12.3	1.03	0.583
69.0	62.0	82.0	105.0	3.5	3.3	-7.1	0.825	0.510
62.0	56.0	84.0	880	3.5	0.8	8.4	0.650	0.295
66.0	60.0	89.0	97.0	3.5	3.3	27.3	1.13	0.640
71.0	61.0	97.0	107.0	3.5	3.3	31.5	1.70	0.850
60.0	55.0	76.0	78.0	3.0	0.5	5.3	0.305	0.129

Bore diameter d: 50.800~57.150mm



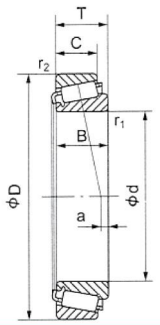
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
	82.000	21.976	22225	17.000	3.6	0.5	**Lm104949**	**JLM104910**	61200	84300	3700	5200
	82.550	21.590	22225	16.510	3.5	1.3	**LM104949**	**LM104911**	71000	96000	4300	5700
	82.931	21.590	22225	16.510	3.6	1.2	**Lm104949**	**Lm104912**	61200	84300	3700	5200
	85.000	17.462	17462	13.495	3.5	1.5	**18790**	**18720**	44000	58500	4000	5600
	88.900	17.462	17462	13.495	3.5	1.3	**18790**	**18724**	44000	58500	4000	5300
	88.900	20.638	22225	16.513	1.5	1.3	**368**	**362A**	74500	89000	4000	5600
	88.900	20.638	22225	16.513	3.6	1.3	**368A**	**362A**	74300	87300	3700	5200
	92.075	24.608	25400	19.845	3.6	0.8	**28580R.L**	**28521.L**	84800	119000	3500	4900
	93.264	30.162	30302	23.812	3.5	0.8	**3780**	**3730**	102000	134000	3800	5300
50.800	93.264	30.163	30302	23.813	3.6	3.2	**3780**	**3720**	103000	137000	3500	4900
	101.600	31.750	31750	25.400	3.5	3.3	**49585**	**49520**	107000	128000	3600	5000
	101.600	34.925	36068	26.988	0.8	3.3	**529**	**522**	139000	169000	3700	5000
	104.775	30.162	30958	23.812	6.4	3.3	**45284**	**45220**	131000	171000	3500	4700
	104.775	36.212	36512	28.575	3.5	3.3	**HM807046**	**HM807010**	147000	201000	3500	4800
	107.950	36.512	36957	58.575	3.5	3.3	**537**	**532X**	139000	173000	3600	4800
	111.125	30.162	26909	50.638	3.5	3.3	**55200**	**55437**	92000	108000	3100	4300
	122.238	38.100	36678	30.162	2.3	3.3	**555**	**553X**	149000	197000	3000	4100
	123.825	36.512	32791	25.400	3.5	3.3	**72200**	**72487**	135000	148000	2900	4100
	127.000	44.450	44450	34.925	3.5	3.3	**65200**	**65500**	198000	258000	3100	4300
52.388	92.075	24.608	25400	19.845	3.6	0.8	**28584R**	**28521**	84800	119000	3500	4900
	96.838	21.001	21946	15.875	1.6	0.8	**389AS**	**382A**	80400	101000	3300	4600
	98.425	21.000	21946	17.826	0.8	0.8	**389A**	**382**	74500	91500	3600	5000
	104.775	30.162	29317	24.605	3.5	3.3	**456**	**453X**	116000	150000	3400	4800
	104.775	36.512	36512	28.575	3.5	3.3	**HM807049**	**HM807010**	147000	201000	3500	4800
53.975	112.712	30.162	30163	23.812	3.5	3.3	**39578**	**39520**	126000	168000	3100	4300
	120.650	41.275	41275	31.750	3.5	3.3	**621**	**612**	163000	198000	3300	4400
	123.825	38.100	36678	30.162	3.5	3.3	**557S**	**552A**	149000	197000	3000	4100
	127.000	44.450	44450	34.925	3.5	3.3	**65212**	**65500**	198000	258000	3100	4300
	127.000	50.800	52388	41.275	3.5	3.3	**6280**	**6220**	241000	300000	3100	4300
55.000	90.000	23.000	23000	18.500	1.5	0.5	**JLM506849E**	**JLM506810E**	81400	115000	3500	4900
55.562	122.238	43.658	43764	36.512	1.3	3.3	**5566**	**5535**	178000	263000	3000	4000
55.563	97.630	24.608	24608	19.446	3.6	0.8	**28680**	**28622**	89600	131000	3300	4600
	96.838	21.001	21946	15.875	3.6	0.8	**387A**	**382A**	80400	101000	4200	5900
	97.630	24.608	24608	19.446	3.6	0.8	**28682**	**28622**	89600	131000	3300	4600
	104.775	30.163	29317	24.605	2.4	3.2	**462**	**453X**	109000	144000	3100	4300
	104.775	30.162	30958	23.812	2.3	0.8	**45290**	**45221**	131000	171000	3500	4700
	104.775	30.163	29317	24.605	3.6	3.2	**469**	**453X**	109000	144000	3100	4300
	110.000	21.999	21996	18.825	2.4	1.2	**390**	**394A**	86400	116000	2800	4000
57.150	112.712	30.162	30048	23.812	3.5	3.3	**3979**	**3920**	118000	172000	3200	4300
	112.713	30.163	30163	23.813	7.9	3.2	**39581**	**39520**	147000	207000	2800	3900
	117.475	30.162	30162	23.812	3.5	3.3	**33225**	**33462**	112000	168000	3000	4000
	117.475	33.338	3175	23.812	3.5	3.3	**66225**	**66462**	118000	132000	3100	4100
	122.238	38.100	36678	30.162	3.5	3.3	**555S**	**553X**	149000	197000	3000	4100
	127.000	44.450	44450	34.925	3.5	3.3	**65225**	**65500**	198000	258000	3100	4200
	136.525	41.275	41275	31.750	3.5	3.3	**635**	**632**	183000	246000	2800	3800
	149.225	53.975	54229	44.450	3.5	3.3	**6455**	**6420**	284000	410000	2500	3400

Note : when load center is (-), and it is out of inner ring plane



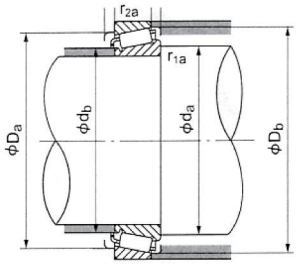
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
62.0	55.0	76.0	78.0	3.6	0.5	5.2	0.288	0.129
62.0	55.0	75.0	78.0	3.5	1.3	3.9	0.285	0.150
62.0	55.0	72.0	78.0	3.6	1.2	5.2	0.287	0.140
62.0	56.0	77.0	80.0	3.5	1.5	0.7	0.235	0.134
62.0	56.0	75.5	80.5	3.5	1.3	0.7	0.235	0.134
58.0	56.0	81.0	84.0	1.5	1.3	4.2	0.345	0.165
62.0	56.0	84.0	84.0	3.6	1.2	4.6	0.329	0.166
73.0	61.0	76.0	86.0	3.6	0.8	4.7	0.455	0.247
64.0	58.0	84.0	88.0	3.5	0.8	8.2	0.558	0.295
64.0	58.0	82.0	88.0	3.6	3.2	8.0	0.539	0.296
66.0	59.0	88.0	96.0	3.5	3.3	7.1	0.750	0.385
59.0	58.0	89.0	95.0	0.8	3.3	12.7	0.830	0.410
71.0	59.0	95.0	99.0	6.4	3.3	7.9	0.825	0.410
70.0	63.1	89.0	100.0	3.5	3.3	7.4	0.970	0.500
65.0	59.0	94.0	100.0	3.5	3.3	11.7	0.970	0.570
71.0	63.9	92.0	105.0	3.5	3.3	-7.1	0.770	0.510
66.0	62.0	108.0	115.0	2.3	3.3	9.4	1.50	0.690
74.0	65.9	102.0	116.0	3.5	3.3	-1.3	1.24	0.785
75.0	69.0	107.0	119.0	3.5	3.3	9.4	1.87	1.03
73.0	61.0	76.0	87.0	3.6	0.8	4.7	0.430	0.247
75.0	66.0	89.0	92.0	1.6	0.8	3.6	0.475	0.179
69.0	71.0	90.0	92.0	0.8	0.8	3.0	0.380	0.225
67.0	63.0	92.0	98.0	3.5	3.3	7.0	0.740	0.375
73.0	63.1	89.0	95.0	3.5	3.3	7.4	0.890	0.500
77.0	61.0	101.0	107.0	3.5	3.3	6.6	0.900	0.360
7.0	63.0	105.0	110.0	3.5	3.3	26.9	1.49	0.735
71.0	65.0	109.0	116.0	3.5	3.3	9.2	1.50	0.750
77.0	71.0	107.0	119.0	3.5	3.3	9.4	1.80	1.03
74.0	67.0	108.0	117.0	3.5	3.3	19.5	2.06	1.25
72.0	62.0	76.0	87.0	1.5	0.5	2.9	0.377	0.184
70.0	68.0	106.0	116.0	1.3	3.3	12.1	1.76	0.811
68.0	62.0	88.0	92.0	36	0.8	3.4	0.490	0.270
69.0	62.0	89.0	92.0	3.6	0.8	3.6	0.425	0.179
76.0	66.0	88.0	92.0	3.6	0.8	3.4	0.463	0.270
67.0	63.0	92.0	98.0	2.4	3.2	6.6	0.678	0.382
68.0	65.0	95.0	99.0	2.3	0.8	8.0	0.765	0.350
70.0	63.0	92.0	98.0	3.6	3.2	6.6	0.678	0.382
86.0	77.0	101.0	104.5	2.4	1.2	0.7	0.677	0.262
72.0	66.0	99.0	106.0	3.5	3.3	4.6	0.940	0.460
81.0	66.0	101.0	107.0	7.9	3.2	6.9	1.03	0.363
74.0	68.0	104.0	112.0	3.5	3.3	2.4	1.05	0.440
72.0	63.0	98.0	113.0	3.5	3.3	-0.1	0.970	0.540
73.0	67.0	108.0	115.0	3.5	3.3	9.4	1.45	0.690
80.0	71.0	107.0	119.0	3.5	3.3	9.3	1.75	1.03
75.0	69.0	118.0	125.0	35	3.3	11.2	2.02	1.01
81.0	75.0	129.0	140.0	35	3.3	15.1	3.45	1.65

Bore diameter d: 58.738~65.088mm



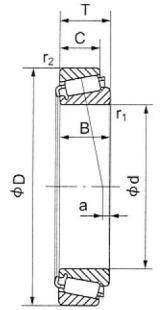
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
58.738	112.712	30.162	30.048	23.812	3.5	3.3	**3981**	**3920**	118000	172000	3200	4300
	127.000	44.450	44.450	34.925	3.5	3.3	**65231**	**65500**	198000	258000	3100	4200
59.987	134.983	33.449	30.925	21.948	3.6	3.6	**HM911244R**	**HM911216**	153000	181000	2600	3700
60.325	100.000	25.400	25.400	19.845	3.6	3.2	**28985**	**28921**	91400	137000	3100	4300
	101.600	25.400	25.400	19.845	3.6	3.2	**28985**	**28920**	91400	137000	3100	4300
	112.713	30.162	30.048	23.812	3.5	0.8	**6980**	**3925**	118000	172000	3200	4300
	122.238	38.100	38.354	29.718	8.0	1.5	**HM212044**	**HM212010**	187000	243000	3000	4100
	127.000	36.512	36.512	26.988	3.5	1.5	**HM813841**	**HM813811**	113000	149000	2900	3800
	130.175	36.512	33.338	23.812	5.0	3.3	**HM911245**	**HM911210**	146000	171000	2700	3600
	130.175	41.275	41.275	31.750	3.5	3.3	**637**	**633**	183000	246000	2800	3800
	135.755	53.975	56.007	44.450	3.5	3.3	**6376**	**6320**	263000	360000	2800	3800
	136.525	46.038	46.038	36.512	3.5	3.3	**H715332**	**H715311**	184000	280000	2600	3600
61.912	110.000	22.000	21.996	18.824	0.8	1.3	**392**	**394A**	87500	117000	3200	4300
	122.238	38.100	36.678	30.162	3.5	3.3	**554**	**553X**	149000	197000	3000	4100
	139.700	46.038	46.038	36.512	3.5	3.3	**H715334**	**H715310**	184000	280000	2600	3600
	146.050	41.275	39.688	25.400	3.5	3.3	**H913842**	**H913810**	191000	221000	2400	3300
63.500	94.458	19.050	19.050	15.083	1.5	1.5	**L610549**	**L610510**	49000	80000	3600	4800
	107.950	25.400	25.400	19.050	1.6	0.8	**59586**	**29522**	82800	143000	2800	4000
	107.950	25.400	25.400	19.050	3.5	3.3	**29585**	**29520**	94500	144000	3200	4300
	110.000	22.000	21.996	18.824	3.5	1.3	**395**	**394A**	87500	117000	3200	4300
	110.000	25.400	25.400	19.050	3.5	1.3	**29585**	**29521**	94500	144000	3200	4300
	112.712	30.162	30.048	23.812	3.5	0.8	**3982**	**3925**	118000	172000	3200	4300
	112.713	30.163	30.463	23.813	3.6	3.2	**39585**	**39520**	147000	207000	2800	3900
	112.713	30.163	30.048	23.813	3.6	3.2	**3982**	**3920**	111000	164000	2800	4000
	120.000	29.002	29.007	23.444	3.5	3.3	**483**	**472A**	119000	161000	3000	4000
	120.000	29.794	30.162	23.444	0.8	0.8	**33251**	**33472**	112000	168000	3000	4000
	122.238	38.100	38.354	29.718	7.0	3.3	**HM212047**	**HM212011**	187000	243000	3000	4100
	122.238	38.100	38.354	29.718	7.1	3.2	**HM212047UR**	**HM212011UR**	191000	249000	2700	3800
	127.000	36.512	36.512	26.988	3.5	1.5	**HM813842**	**HM813811**	113000	149000	2900	3800
	130.175	41.275	41.275	31.750	3.5	3.3	**639**	**633**	183000	246000	2800	3800
	136.525	41.275	41.275	31.750	3.5	3.3	**H414235**	**H414210**	231000	300000	2700	3700
	136.525	46.038	46.038	36.512	3.5	3.3	**H715336**	**H715311**	184000	280000	2600	3600
	140.030	36.512	33.236	23.520	2.3	2.3	**78250**	**78551**	145000	172000	2500	3500
	150.089	44.450	46.673	36.512	3.5	3.3	**745S**	**742**	252000	345000	2400	3200
64.963	127.000	36.512	36.170	28.575	3.5	3.3	**569**	**563**	165000	232000	2800	3800
65.000	120.000	39.000	38.500	32.000	3.0	2.5	**JH211749E**	**JH211710E**	189000	255000	2700	3800
65.088	135.755	53.975	56.007	44.450	3.5	3.3	**6379**	**6320**	263000	360000	2800	3800
	136.525	46.038	46.038	36.512	3.5	3.3	**H715340**	**H715311**	184000	280000	2600	3600

Note : when load center is (-), and it is out of inner ring plane



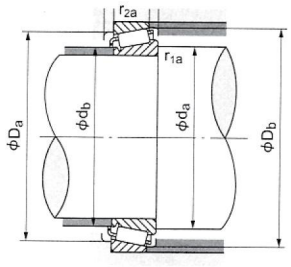
Abutment and fillet Dimensions, mm						Load Center (mm) a	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)		Inner ring	Outer ring
73.0	67.0	99.0	106.0	3.5	3.3	4.5	0.890	0.460
81.0	71.0	107.0	119.0	3.5	3.3	9.3	1.71	1.03
100.0	75.0	98.0	122.0	3.6	3.6	-7.1	1.35	0.823
73.0	67.0	89.0	96.0	3.6	3.2	2.6	0.527	0.237
73.0	67.0	89.0	96.0	3.6	3.2	2.6	0.526	0.276
74.0	68.0	101.0	106.0	3.5	0.8	4.5	0.90	0.450
85.0	70.0	110.0	116.0	8.0	1.5	10.9	1.45	0.600
80.0	73.0	113.0	121.0	3.5	1.5	3.7	1.58	0.625
87.0	74.0	109.0	123.6	5.0	3.3	-5.2	1.48	0.685
78.0	72.0	116.0	124.0	3.5	3.3	11.2	1.89	0.705
81.0	74.0	117.0	126.0	3.5	3.3	19.2	2.45	1.40
84.0	78.0	118.0	132.0	3.5	3.3	8.5	2.53	1.02
70.0	69.0	101.0	104.5	0.8	1.3	0.8	0.615	0.265
73.0	67.0	108.0	115.0	3.5	3.3	9.4	1.40	0.690
86.0	79.0	120.0	133.0	3.5	3.3	8.5	2.48	1.15
90.0	82.4	124.0	138.0	3.5	3.3	-4.3	2.25	0.900
71.0	69.0	86.0	91.0	1.5	1.5	-0.7	0.295	0.156
73.0	71.0	91.0	104.0	1.6	0.8	0.7	0.646	0.286
77.0	71.0	96.0	103.0	3.5	3.3	0.8	0.640	0.280
77.0	70.0	101.0	104.5	3.5	1.3	0.8	0.565	0.265
77.0	71.0	99.0	104.0	3.5	1.3	0.8	0.640	0.335
77.0	71.0	101.0	106.0	3.5	0.8	4.5	0.775	0.450
77.0	71.0	101.0	107.0	3.6	3.2	6.9	0.907	0.363
88.0	76.0	99.0	106.0	3.6	3.2	4.3	0.772	0.458
78.0	72.0	106.0	114.0	3.5	3.3	4.0	0.985	0.445
73.0	72.0	107.0	113.0	0.8	0.8	2.6	1.03	0.510
87.0	73.0	108.0	116.0	7.0	3.3	10.9	1.45	0.600
90.0	77.0	102.0	115.0	7.1	3.2	10.8	1.35	0.605
82.0	76.0	113.0	121.0	3.5	1.5	3.7	1.40	0.715
81.0	74.0	116.0	124.0	3.5	3.3	11.2	1.79	0.705
82.0	78.0	121.0	129.0	3.5	3.3	10.9	1.95	0.795
87.0	80.0	118.0	132.0	3.5	3.3	8.5	2.45	1.02
85.0	78.9	117.0	1320	2.3	2.3	-8.0	1.50	0.925
88.0	82.0	134.0	142.0	3.5	3.3	11.9	2.90	1.06
81.0	74.0	112.0	120.0	3.5	3.3	8.1	1.45	0.650
91.0	75.0	99.0	114.0	3.0	2.5	11.1	1.28	0.628
84.0	77.4	117.0	126.0	3.5	3.3	19.2	2.25	1.40
88.0	82.0	118.0	132.0	3.5	3.3	8.5	2.35	1.02

Bore diameter d: 66.675~71.438mm



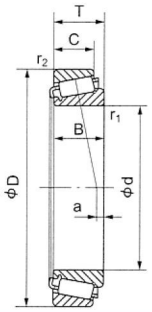
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
	110.000	21.999	21.996	18.824	3.6	1.2	**395S**	**394A**	86400	116000	2800	4000
	110.000	21.999	21.996	18.824	0.8	1.2	**395A**	**394A**	86400	116000	2800	4000
	112.713	30.163	30.048	23.813	3.6	3.2	**3984**	**3920**	111000	164000	2800	4000
	112.713	30.163	30.163	23.813	3.6	3.2	**39590**	**39520**	147000	207000	2800	3900
	112.713	30.163	30.048	23.813	5.6	3.2	**3994**	**3920**	111000	164000	2800	4000
66.675	117.475	30.162	30.162	23.813	3.5	3.3	**33262**	**33462**	112000	168000	3000	4000
	122.238	38.100	36.678	30.162	3.5	3.3	**560**	**553X**	149000	197000	3000	4000
	122.238	38.100	68.354	29.718	3.5	1.5	**HM212049**	**HM212010**	187000	243000	3000	4100
	122.238	38.100	38.354	29.718	3.6	3.2	**HM212049**	**HM212011**	191000	249000	2700	3800
	136.525	41.275	41.275	31.750	3.5	3.3	**H414242**	**H414210**	231000	300000	2700	3700
	136.525	46.039	46.038	36.512	3.5	3.3	**H715341**	**H715311**	184000	280000	2600	3600
	110.000	22.000	21.996	18.824	2.3	1.3	**399A**	**394A**	87500	117000	3200	4300
	117.475	30.162	30.162	23.812	3.5	3.3	**33269**	**33462**	112000	168000	3000	4000
	120.000	29.005	29.007	23.444	3.5	3.3	**480**	**472A**	119000	161000	3000	4000
68.262	122.238	38.100	36.678	30.162	3.5	3.3	**560S**	**553X**	149000	197000	3000	4000
	135.525	41.275	41.275	31.750	3.5	3.3	**H414245**	**H414210**	231000	300000	2700	3700
	136.525	46.038	46.038	36.512	3.5	3.3	**H715343**	**H715311**	184000	280000	2600	3600
	152.400	47.625	46.038	31.750	3.5	3.3	**9185**	**9121**	245000	279000	2600	3500
	120.000	29.794	29.007	24.237	3.6	2.0	**480**	**472**	118000	161000	2700	3700
68.263	123.825	38.100	36.678	30.163	3.6	3.2	**560S**	**552A**	162000	223000	2700	3700
	136.525	41.275	41.275	31.750	3.6	3.2	**H414245**	**H414210**	228000	295000	2400	3400
	112.712	25.400	25.400	19.050	1.5	3.3	**29675**	**29620**	86000	133000	3000	4000
	117.475	30.163	30.163	23.813	3.6	3.2	**33275**	**33462**	118000	179000	2700	3700
	120.000	29.794	29.007	24.237	3.6	2.0	**482**	**475**	118000	161000	2700	3700
	120.000	32.545	32.545	26.195	3.5	3.3	**47487**	**47420**	123000	167000	3000	4000
	120.000	32.545	32.545	26.195	3.6	0.5	**47487R**	**47420DM**	150000	218000	2600	3700
69.850	127.000	36.512	36.512	26.988	3.5	1.5	**HM813846**	**HM813811**	113000	149000	2800	3800
	146.050	41.275	39.688	25.400	3.6	3.2	**H913849R.F**	**H913810F**	202000	237000	2400	3300
	146.050	41.275	41.275	31.750	3.5	3.3	**655**	**653**	188000	260000	2500	3300
	149.225	53.975	54.229	44.450	5.0	3.3	**6454**	**6420**	284000	410000	2500	3400
	150.089	44.450	46.672	36.512	3.5	3.3	**745A**	**742**	252000	345000	2400	3200
69.952	121.442	24.608	23.012	17.462	2.0	2.0	**34274**	**34478**	85600	110000	2900	3800
	117.475	30.163	23.163	23.813	3.6	3.2	**33281**	**33462**	118000	179000	2700	3700
	120.000	29.794	30.163	23.444	3.6	0.8	**33281**	**33472**	118000	179000	2700	3700
	120.000	32.545	32.545	26.195	3.5	3.3	**47490**	**47420**	123000	167000	3000	4000
	127.000	36.512	36.512	26.988	3.5	1.5	**HM813849**	**HM813811**	113000	149000	2800	3800
71.438	130.175	41.275	41.275	31.750	3.5	3.3	**644**	**633**	151000	229000	2800	3800
	133.350	33.338	33.338	26.195	3.5	0.8	**47675**	**47620A**	151000	229000	2600	3500
	136.525	41.275	41.275	31.750	3.5	3.3	**H414249**	**H414210**	231000	300000	2700	3600
	136.525	41.275	41.275	31.750	3.6	3.2	**H414249**	**H414210**	228000	295000	2400	3400
	136.525	41.275	41.275	31.750	6.4	3.2	**645**	**632**	197000	267000	2500	3500
	136.525	46.038	46.038	36.512	3.5	3.3	**H715345**	**H715311**	184000	280000	2600	3500

Note : when load center is (-), and it is out of inner ring plane



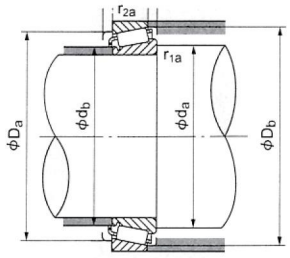
Abutment and fillet Dimensions, mm						Load Center (mm) a	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)		Inner ring	Outer ring
79.0	73.0	101.0	104.5	3.6	1.2	0.7	0.516	0.262
73.0	73.0	101.0	104.5	0.8	1.2	0.7	0.521	0.262
88.0	76.0	99.0	106.0	3.6	3.2	4.3	0.692	0.458
80.0	74.0	101.0	107.0	3.6	3.2	6.9	0.827	0.363
88.0	76.0	99.0	106.0	5.6	3.2	4.3	0.692	0.458
81.0	75.0	104.0	112.0	3.5	3.3	2.8	0.910	0.440
81.0	75.0	108.0	115.0	3.5	3.3	9.4	1.15	0.690
82.0	75.5	110.0	116.0	3.5	1.5	10.9	1.25	0.600
82.0	75.5	108.0	116.0	3.6	3.2	10.8	1.25	0.605
85.0	81.0	121.0	129.0	3.5	3.3	10.9	1.95	0.795
89.0	83.0	118.0	132.0	3.5	3.3	8.5	2.30	1.02
78.0	74.0	101.0	104.5	2.3	1.3	0.8	0.495	0.265
82.0	76.0	104.0	112.0	3.5	3.3	2.8	0.900	0.440
82.0	75.0	106.0	114.0	3.5	3.3	4.0	0.890	0.445
83.0	76.0	108.0	115.0	3.5	3.3	9.4	1.10	0.690
86.0	82.0	121.0	129.0	3.5	3.3	10.9	1.90	0.795
90.0	84.0	118.0	132.0	3.5	3.3	8.5	2.24	1.02
90.0	81.3	130.0	145.0	3.5	3.3	3.7	2.57	1.21
92.0	80.0	108.0	113.0	3.6	2.0	4.1	0.826	0.494
91.0	78.0	109.0	116.0	3.6	3.2	9.4	1.07	0.770
86.0	82.0	121.0	129.0	3.6	3.2	11.0	1.91	0.804
80.0	77.0	101.0	109.0	1.5	3.3	-0.9	0.670	0.290
84.0	77.0	104.0	112.0	3.6	3.2	2.4	0.824	0.446
93.0	81.0	99.0	112.0	3.6	2.0	4.1	0.786	0.494
84.0	78.0	107.0	114.0	3.5	3.3	6.2	0.960	0.479
84.0	78.0	107.0	114.0	3.6	0.5	6.0	1.00	0.487
88.0	81.0	113.0	121.0	3.5	1.5	3.8	1.27	0.630
110.0	80.0	112.0	128.0	3.6	3.2	-4.0	2.05	0.907
88.0	82.0	131.0	139.0	3.5	3.3	7.9	2.35	0.890
94.0	85.0	129.0	140.0	5.0	3.3	15.1	2.90	1.65
88.0	82.0	134.0	142.0	3.5	3.3	12.0	2.80	1.06
81.0	78.0	110.0	116.0	2.0	2.0	-1.2	0.750	0.375
85.0	79.0	104.0	112.0	3.6	3.2	2.4	0.784	0.446
85.0	79.0	97.0	112.0	3.6	0.8	2.4	0.787	0.523
86.0	79.0	107.0	114.0	3.5	3.3	6.2	0.940	0.479
89.0	81.9	113.0	121.0	3.5	1.5	3.8	1.35	0.630
87.0	81.0	116.0	124.0	3.5	3.3	11.2	1.50	1.05
88.0	82.0	121.0	128.0	3.5	0.8	3.8	1.38	0.590
89.0	83.3	121.0	129.0	3.5	3.3	10.9	1.82	0.795
100.0	85.0	212.0	129.0	3.6	3.2	11.0	1.79	0.804
98.0	83.0	108.0	123.0	6.4	3.2	11.0	1.45	1.05
93.0	87.0	118.0	132.0	3.5	3.3	8.5	2.07	1.02

Bore diameter d: 73.025~84.138mm



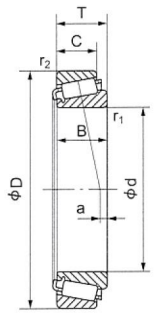
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
73.025	112.713	25.400	25.400	19.050	3.6	3.2	**29685**	**29620**	97000	155000	2700	3800
	117.475	30.163	30.163	23.813	3.6	3.2	**33287**	**33462**	118000	179000	2700	3700
	125.412	25.400	25.400	19.845	3.5	1.5	**27680**	**27620**	102000	164000	2700	3600
	127.000	30.162	31.000	22.225	3.5	3.3	**42683**	**42620**	131000	181000	2800	3700
	127.000	36.513	36.170	28.575	3.6	3.2	**567**	**563**	156000	226000	2500	3500
	149.225	53.975	54.229	44.450	3.5	3.3	**6460**	**6420**	284000	410000	2500	3400
	149.225	53.975	54.229	44.450	7.0	3.2	**6460YA**	**6420**	285000	404000	2200	3100
	150.089	44.450	46.673	36.512	3.5	3.3	**744**	**742**	252000	345000	2400	3200
73.817	112.712	25.400	25.400	19.050	1.5	3.3	**29688**	**29620**	86000	133000	3100	4100
74.612	139.992	36.512	36.098	28.575	3.5	3.3	**577**	**572**	171000	252000	2500	3400
76.200	125.412	25.400	25.400	19.845	3.5	1.5	**27684**	**57620**	102000	164000	2700	3600
	133.350	30.162	29.769	22.225	6.4	3.3	**495AX**	**492A**	118000	175000	2600	3500
	135.733	44.450	49.101	34.925	3.5	3.3	**5760**	**5735**	207000	295000	2600	3600
	136.525	30.162	29.769	22.225	3.5	3.3	**495A**	**493**	118000	175000	2600	3500
	139.992	36.512	36.098	28.575	3.5	3.3	**575**	**572**	171000	252000	2500	3400
	161.925	47.625	48.260	38.100	3.5	3.3	**755**	**752**	273000	390000	2300	3100
	161.926	49.212	46.038	31.750	3.5	3.3	**9285**	**9220**	230000	263000	2100	3000
	168.275	53.975	56.363	41.275	6.4	3.3	**843**	**832**	340000	460000	2200	3000
	171.450	49.212	46.038	31.750	3.5	3.3	**9380**	**9321**	229000	271000	2000	2700
	190.500	57.150	57.531	46.038	3.5	3.3	**HH221430**	**HH221410**	425000	585000	1900	2600
77.788	133.350	30.162	29.769	22.225	3.5	3.3	**495AS**	**492A**	118000	175000	2600	3500
	135.733	44.450	46.101	34.925	3.5	3.3	**5795**	**5735**	215000	340000	2600	3600
79.375	146.050	41.275	41.275	31.750	3.5	3.3	**661**	**653**	188000	260000	2500	3300
	150.089	44.450	46.675	36.512	3.5	3.3	**750**	**742**	273000	390000	2400	3200
	161.925	47.625	48.260	38.100	8.0	3.3	**756A**	**752**	273000	390000	2300	3100
80.000	130.000	35.000	34.000	28.500	3.0	2.5	**JM515649**	**JM515610**	168000	256000	2400	3300
80.962	133.350	30.162	29.769	22.225	3.5	3.3	**496**	**492A**	118000	175000	2600	3500
	133.350	33.338	33.338	26.195	3.5	0.8	**47681**	**47620A**	151000	228000	2600	3500
	150.089	44.450	46.676	36.512	5.0	3.3	**740**	**742**	253000	345000	2400	3200
	168.275	53.975	56.363	41.275	0.8	3.3	**838**	**832**	340000	470000	2200	3000
82.550	125.413	25.400	25.400	19.845	3.6	1.6	**27687**	**27620**	101000	162000	2400	3400
	133.350	30.162	29.769	22.225	3.5	3.3	**495**	**492A**	118000	175000	2600	3500
	133.350	33.338	33.338	26.195	3.5	0.8	**47686**	**47620A**	151000	228000	2600	3500
	133.350	33.338	33.338	26.195	3.6	3.2	**47686**	**47620**	145000	226000	2300	3200
	133.350	33.338	33.338	26.195	6.7	3.2	**47687**	**47620**	145000	226000	2300	3200
	133.350	39.688	39.688	32.545	3.5	3.3	**HM516449**	**HM546410**	184000	320000	2600	3500
	139.992	36.512	36.098	28.575	3.5	3.3	**580**	**572**	171000	255000	2500	3400
	139.992	36.513	36.098	58.575	3.6	3.2	**580R**	**572**	175000	262000	2300	3200
	146.050	41.275	41.275	31.750	3.5	3.3	**663**	**653**	18000	260000	2500	3300
	161.925	47.625	48.260	38.100	3.5	3.3	**757**	**752**	273000	390000	2300	3100
	161.925	53.975	55.100	42.862	3.5	3.3	**6559**	**6535**	305000	460000	2300	3000
	168.275	53.975	56.363	41.275	3.5	3.3	**842**	**832**	340000	470000	2200	3000
84.138	133.350	30.162	29.769	22.225	3.5	3.3	**498**	**492A**	118000	175000	2600	3500
	171.450	49.212	46.038	31.750	3.5	3.3	**9385**	**9321**	229000	282000	2000	2700

Note : when load center is (-), and it is out of inner ring plane



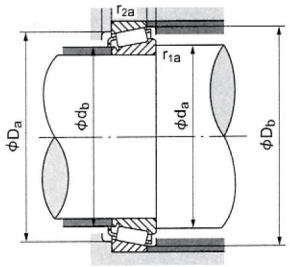
Abutment and fillet Dimensions, mm						Load Center (mm)	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)	a	Inner ring	Outer ring
86.0	80.0	101.0	109.0	3.6	3.2	-0.8	0.593	0.278
870	80.0	104.0	112.0	3.6	3.2	2.4	0.744	0.446
88.0	82.0	115.0	120.0	3.5	1.5	-0.6	0.90	0.410
88..0	81.0	114.0	121.0	3.5	3.3	2.8	1.05	0.510
88.0	81.0	112.0	120.0	3.6	3.2	7.9	1.13	0.661
93.0	87.0	129.0	140.0	3.5	3.3	15.1	2.79	1.65
111.0	88.0	129.0	141.0	7.0	3.2	14.7	2.73	1.64
91.0	85.0	134.0	142.0	3.5	3.3	12.0	2.50	1.06
83.0	81.0	101.0	109.0	1.5	3.3	-0.9	0.575	0.290
91.0	85.0	125.0	133.0	3.5	3.3	5.3	1.65	0.820
91.0	84.0	115.0	120.0	3.5	1.5	0.6	0.83	0.410
98.0	86.0	120.0	128.0	6.4	3.3	0.8	1.20	0.430
94.0	88.0	119.0	130.0	3.5	3.3	11.7	1.83	0.882
92.0	86.0	122.0	130.0	3.5	3.3	0.8	1.26	0.490
92.0	86.0	125.0	133.0	3.5	3.3	5.3	1.50	0.810
95.0	88.0	147.0	150.0	3.5	3.3	11.9	3.50	1.60
103.0	90.4	138.0	153.0	3.5	3.3	0	2.90	1.40
101.0	89.0	149.0	155.0	6.4	3.3	18.4	4.10	1.73
105.0	98.2	147.0	164.0	3.5	3.3	-4.4	3.50	1.50
101.0	95.0	171.0	179.0	3.5	3.3	14.4	5.80	2.90
93.0	87.0	120.0	128.0	3.5	3.3	0.8	1.10	0.430
96.0	89.0	119.0	130.0	3.5	3.3	11.7	1.75	0.880
96.0	90.0	131.0	139.0	3.5	3.3	7.9	2.00	0.890
96.0	90.0	134.0	142.0	3.5	3.3	11.9	1.45	1.06
106.0	91.0	144.0	150.0	8.0	3.3	14.9	3.02	1.60
94.0	88.0	117.0	125.0	3.0	2.5	5.4	1.19	0.585
95.0	89.0	120.0	128.0	3.5	3.3	0.7	1.05	0.430
95.0	89.0	121.0	128.0	3.5	0.8	4.3	1.18	0.59
101.0	91.0	134.0	142.0	5.0	3.3	11.9	2.33	1.06
90.0	89.0	149.0	155.0	0.8	3.3	18.4	4.05	1.73
96.0	89.0	115.0	120.0	3.6	1.6	0.7	0.711	0.349
97.0	90.0	120.0	128.0	3.5	3.3	0.7	1.02	0.51
97.0	90.0	121.0	128.0	3.5	0.8	3.8	1.15	0.575
108..0	94.0	119.0	128.0	3.6	3.2	4.2	1.11	0.582
107.0	94.0	119.0	128.0	6.7	3.2	4.2	1.10	0.582
99.0	92.0	118.0	128.0	3.5	3.3	7.5	1.50	0.750
98.0	81.0	125.0	133.0	3.5	3.3	5.3	1.35	0.810
98.0	91.0	125.0	133.0	3.6	3.2	5.5	1.35	0.841
99.0	92.0	131.0	139.0	3.5	3.3	8.0	1.85	0.890
100.0	94.0	144.0	150.0	3.5	3.3	12.1	2.95	1.60
107.0	98.0	141.0	154.0	3.5	3.3	12.8	3.40	1.65
101.0	94.0	149.0	155.0	3.5	3.3	18.4	3.65	1.78
98.0	91.0	120.0	128.0	3.5	3.3	0.7	1.00	0.430
111.0	98.2	147.0	164.0	3.5	3.3	-4.4	3.20	1.50

Bore diameter d: 85.027~95.250mm



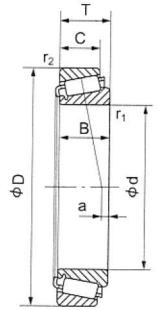
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
85.027	150.089	44.450	46672	36.512	3.5	3.3	**749**	**742**	253000	345000	2400	3200
	133.350	30.163	29769	22.225	3.6	3.2	**497**	**492A**	133000	198000	2300	3200
	136.525	30.163	29769	22.225	3.6	3.2	**497**	**493**	133000	198000	2300	3200
	142.138	42.862	42862	34.133	4.8	3.3	**HM617049**	**HM617010**	210000	345000	2500	3300
85.725	152.400	39.688	36322	30.163	3.6	3.2	**596**	**592A**	183000	287000	2100	2900
	161.925	47.625	48260	38.100	3.5	3.3	**458**	**752**	273000	390000	2300	3100
	168.275	41.275	41275	30.162	3.5	3.3	**677**	**672**	208000	310000	2000	2800
	168.275	53.975	56363	41.275	3.5	3.3	**841**	**832**	340000	470000	2200	3000
87.312	190.500	57.150	57531	44.450	8.0	3.3	**869**	**854**	365000	525000	1900	2600
	121.442	15.083	15083	11.112	1.5	1.5	**LL217849**	**LL217810**	77500	132000	2700	3500
	147.638	35.717	16322	26.192	3.5	0.8	**593**	**592XE**	185000	288000	2300	3100
	149.225	31.750	28971	27.608	3.0	3.3	**42350**	**42587**	139000	214000	2300	3100
	152.400	39.688	36322	30.163	3.6	3.2	**593**	**592A**	183000	287000	2100	2900
	152.400	39.688	39688	30.163	6.4	3.2	**HM518445**	**HM518410**	548000	359000	2100	2900
	161.925	53.975	55100	42.862	3.5	3.3	**6580**	**6535**	305000	460000	2200	3000
	161.925	53.974	55100	42.863	3.6	3.2	**6580R**	**6535**	316000	471000	2000	2800
88.900	168.275	41.275	41275	30.162	3.5	3.3	**679**	**572**	208000	310000	2000	2800
	168.275	53.975	56363	41.275	3.5	3.3	**850**	**832**	340000	470000	2200	3000
	168.275	53.975	56363	41.275	3.6	3.2	**850R**	**832**	344000	467000	2000	2800
	171.450	47.625	48260	38.100	5.0	3.3	**77350**	**77675**	239000	340000	2100	2800
	190.500	57.150	57531	44.450	8.0	3.3	**855**	**854**	340000	525000	19000	2600
	200.000	52.761	49212	34.925	3.5	3.3	**98350**	**98788**	289000	365000	2000	2700
89.974	146.975	40.000	40000	32.499	7.1	3.6	**HM218248**	**HM218210**	306000	310000	2100	3000
90.000	147.000	40.000	40000	32.500	7.0	3.5	**HM218248**	**HM218210**	220000	325000	2300	3100
90.488	161.925	47.625	48260	38.100	3.6	3.2	**760**	**752**	273000	391000	2000	2900
	146.050	33.338	34925	26.195	3.5	3.3	**47890**	**47820**	157000	250000	2300	3100
	147.638	35.717	36322	26.192	3.5	0.8	**598**	**592XE**	185000	288000	2300	3100
	148.430	28.575	28971	21.433	3.5	3.0	**42362**	**42584**	139000	214000	2300	3100
	150.000	35.992	36322	27.000	6.4	3.0	**598A**	**593X**	183000	287000	2100	2900
92.075	152.400	39.688	36322	30.162	6.4	3.3	**598A**	**592A**	185000	288000	2300	2100
	152.400	39.688	36322	30.163	6.4	3.2	**598AUR**	**592AUR**	183000	287000	2100	2900
	168.275	41.275	41275	30.162	6.4	3.3	**681A**	**672**	208000	310000	2000	2800
	180.975	47.625	48006	38.100	3.5	3.3	**778**	**772**	278000	415000	2000	2700
	190.500	57.150	57531	44.450	8.0	3.3	**857**	**854**	340000	525000	1900	2600
93.662	148.430	28.575	28971	21.433	3.0	3.0	**42368**	**42584**	139000	214000	2300	3100
	146.050	33.338	34925	26.195	3.5	3.3	**47896**	**47820**	157000	250000	2300	3100
	147.635	35.717	36322	26.195	3.5	0.8	**594**	**592XE**	185000	288000	2300	3100
	150.000	35.992	36322	27.000	3.6	3.0	**594**	**593X**	183000	287000	2100	2900
	152.400	39.688	36322	30.163	3.6	3.2	**594**	**592A**	183000	287000	2100	2900
95.250	157.162	36.512	36116	26.195	3.5	3.3	**52375**	**52618**	176000	277000	2100	2900
	168.275	41.275	41275	30.162	3.5	3.3	**683**	**672**	208000	310000	2000	2800
	171.450	47.625	48260	38.100	3.5	3.3	**77375**	**77675**	239000	340000	2100	2800
	190.500	57.150	57531	44.450	8.0	3.3	**864**	**854**	365000	525000	1900	2600

Note : when load center is (-), and it is out of inner ring plane



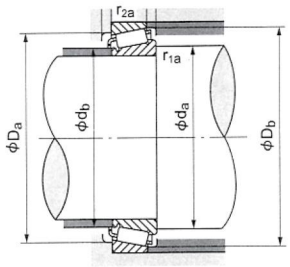
Abutment and fillet Dimensions, mm						Load Center (mm) a	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)		Inner ring	Outer ring
101.0	95.0	1340	142.0	3.5	3.3	11.9	2.15	1.05
99.0	93.0	120	128.0	3.6	3.2	0.3	0.969	0.441
99.0	93.0	1220	130.0	3.6	3.2	0.3	0.972	0.558
106.0	93.0	1250	137.0	4.8	3.3	7.4	1.80	0.910
102.0	96.0	1350	144.0	3.6	3.2	2.6	1.81	1.06
103.0	97.0	1440	150.0	3.5	3.3	11.9	2.65	1.60
105.0	99.0	1490	160.0	3.5	3.3	2.8	2.87	1.27
101.0	94.0	1490	155.0	3.5	3.3	18.4	3.53	1.78
120.0	105.0	1710	179.0	8.0	3.3	15.0	5.67	2.69
97.0	94.0	1160	119.0	1.5	1.5	-0.1	0.490	0.245
104.0	98.0	1350	142.0	3.5	0.8	-1.4	1.70	1.05
104.0	98.0	1340	143.0	3.0	3.3	3.1	1.32	0.590
121.0	105.0	1350	144.0	3.6	3.2	2.6	1.69	1.06
110.0	98.0	1350	114.0	4.6	3.2	6.6	2.09	0.786
109.0	101.9	1410	154.0	3.5	3.3	13.1	3.10	1.65
109.0	98.0	1410	154.0	3.6	3.2	12.9	3.06	1.68
105.0	99.0	1490	160.0	3.5	3.3	2.8	2.89	1.27
106.0	100.0	1490	155.0	3.5	3.3	18.4	3.31	1.78
122.0	103.0	1490	155.0	3.6	3.2	19.0	3.26	1.75
110.0	101.0	1530	161.0	5.0	3.3	9.6	3.30	1.57
118.0	103.0	1700	174.0	8.0	3.3	15.4	5.05	2.69
105.0	98.0	1700	193.0	3.5	3.3	1.8	4.80	2.55
112.0	99.0	1330	141.0	7.1	3.6	9.2	1.64	0.799
104.0	99.0	1350	142.0	7.0	3.5	8.6	1.96	0.95
107.0	101.0	1440	150.0	3.6	3.2	12.1	2.10	1.62
107.0	101.0	1310	140.0	3.5	3.3	1.0	1.63	0.660
107.0	101.0	1350	144.0	3.5	0.8	-1.5	1.65	1.05
107.0	101.0	1340	142.0	3.5	3.0	-3.1	1.30	0.550
121.0	105.0	1260	143.0	6.4	3.0	2.6	1.55	0.780
113.0	101.0	1350	144.0	6.4	3.3	2.5	1.67	1.15
121.0	105.0	1350	144.0	6.4	3.2	2.6	1.57	1.06
116.0	104.0	1490	160.0	6.4	3.3	2.8	2.64	1.27
114.0	107.0	1610	168.0	3.5	3.3	8.1	3.49	1.94
121.0	106.0	1700	174.0	8.0	3.3	15.4	4.83	2.69
107.0	102.0	1340	142.0	3.0	3.0	-3.1	1.28	0.550
110.0	103.0	1310	140.0	3.5	3.3	1.0	1.53	0.660
110.0	104.0	1350	142.0	3.5	0.8	-1.5	2.10	.1.05
121.0	105.0	1260	143.0	3.6	3.0	2.6	1.43	0.780
121.0	105.0	1350	144.0	3.6	3.2	2.6	1.43	1.06
112.0	105.0	1420	152.0	3.5	3.3	-2.0	1.90	0.700
113.0	106.0	1490	160.0	3.5	3.3	2.8	2.42	1.27
110.0	101.0	1530	161.0	3.5	3.3	9.6	3.23	1.57
123.0	108.0	1700	174.0	8.0	3.3	9.4	4.60	2.69

Bore diameter d: 98.425~127.000mm



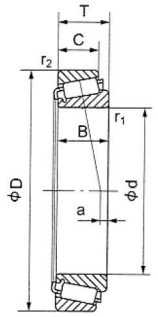
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
98.425	161.925	39.688	36.116	29.370	3.5	3.3	**52387**	**52638**	176000	277000	2100	2900
	168.275	41.275	41.275	30.162	3.5	3.3	**685**	**672**	208000	310000	2000	2800
	180.975	47.625	48.006	38.162	3.5	3.3	**779**	**772**	278000	415000	2000	2700
	190.500	57.150	57.531	44.450	3.5	3.3	**866**	**854**	365000	525000	1900	2600
100.000	180.975	47.625	48.006	38.100	3.5	3.3	**783**	**772**	278000	415000	2000	2700
100.012	157.162	36.512	36.116	26.195	3.5	3.3	**52393**	**52618**	176000	277000	2100	2900
101.600	157.162	36.512	36.116	26.195	3.5	3.3	**52400**	**52618**	176000	277000	2100	2900
	168.275	41.275	41.275	30.162	3.5	3.3	**687**	**672**	208000	31000	2000	2800
	180.975	47.625	48.006	38.100	3.5	3.3	**780**	**772**	278000	415000	2000	2700
	190.500	57.150	57.531	44.450	8.0	3.3	**864**	**854**	365000	525000	1900	2600
	190.500	57.150	57.531	46.038	8.0	3.3	**HH221449**	**HH221410**	425000	585000	1900	2600
	200.000	52.761	49.212	34.925	3.5	3.3	**98400**	**98788**	289000	365000	2000	2700
	212.725	66.675	66.675	53.975	7.0	3.3	**941**	**932**	455000	665000	1700	2400
	212.725	66.675	66.675	53.975	7.0	3.3	**HH224335**	**HH224310**	480000	670000	1700	2300
104.775	180.975	47.625	48.006	38.100	3.5	3.3	**782**	**772**	278000	415000	2000	2700
	190.500	47.625	49.212	34.925	3.5	3.3	**71412**	**71750**	273000	425000	1800	2500
107.950	146.050	21.433	21.433	16.670	1.5	1.5	**L521949**	**L521910**	935000	155000	2200	3000
	158.750	23.020	21.438	15.875	3.6	3.2	**37425**	**37625**	104000	169000	1900	2700
	159.987	34.925	34.925	26.988	3.5	3.3	**LM522546**	**LM522510**	176000	277000	2000	2800
	161.925	34.925	34.925	26.988	3.5	3.3	**48190**	**48120**	164000	280000	2100	2800
	165.100	36.512	36.512	26.988	3.5	3.3	**56425**	**56650**	190000	305000	2000	2800
	190.500	47.625	49.212	34.925	3.5	3.3	**71425**	**71750**	273000	425000	1800	2500
	212.725	66.675	66.675	53.975	8.0	3.3	**936**	**932**	455000	665000	1700	2400
	212.725	66.675	66.675	53.975	8.0	3.3	**HH224340**	**HH224310**	480000	670000	1700	2300
114.300	177.800	41.275	41.275	30.162	3.5	3.3	**66450**	**64700**	231000	370000	1900	2600
	181.000	34.925	31.750	25.400	3.5	3.3	**68450**	**68712**	173000	249000	1900	2500
	190.500	47.625	49.212	34.925	3.5	3.3	**71450**	**71750**	273000	425000	1800	2500
	212.725	66.675	66.675	53.975	7.0	3.3	**938**	**932**	455000	665000	1700	2400
	212.725	66.674	66.675	53.975	7.0	3.3	**HH224346**	**HH224310**	480000	670000	1700	2300
115.087	190.500	47.625	49.212	34.925	3.5	3.3	**71453**	**71750**	273000	425000	1800	2500
120.650	169.862	25.400	26.192	20.638	1.5	1.5	**L225842**	**L225810**	128000	264000	1500	2000
	174.625	35.720	36.512	57.783	3.5	1.5	**M224749**	**M224710**	212000	385000	1900	2600
	206.375	47.625	47.625	34.925	3.3	3.3	**795**	**792**	299000	500000	1600	2200
	234.950	63.500	63.500	49.212	6.4	3.3	**95475**	**95925**	500000	770000	1500	2000
127.000	165.895	18.258	17.462	13.495	1.5	1.5	**LL225749**	**LL225710**	71500	125000	1500	2000
	180.975	25.400	26.195	20.638	1.5	1.5	**L225849**	**L225818**	128000	264000	1500	2000
	182.562	39.688	38.100	33.338	3.5	3.3	**48290**	**48220**	235000	445000	1800	2400
	196.850	46.038	46.038	38.100	3.5	3.3	**67388**	**67322**	295000	520000	1700	2300
	215.900	47.625	47.625	34.925	3.5	3.3	**74500**	**74850**	320000	565000	1500	2100
	228.600	53.975	49..428	38.100	3.5	3.3	**HM926747**	**HM926710**	350000	500000	1500	2000
	234.950	63.500	63.500	49.212	6.4	3.3	**95500**	**95925**	500000	770000	1500	2000

Note : when load center is (-), and it is out of inner ring plane



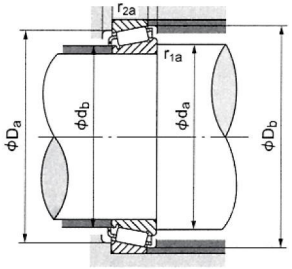
Abutment and fillet Dimensions, mm						Load Center (mm) a	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)		Inner ring	Outer ring
117.0	111.0	142.0	152.0	3.5	3.3	3.6	1.95	0.900
116.0	109.0	149.0	160.0	3.5	3.3	2.8	2.35	1.27
116.0	110.0	161.0	168.0	3.5	3.3	8.1	3.30	1.94
118.0	111.0	170.0	174.0	3.5	3.3	15.4	4.45	2.69
122.0	116.0	161.0	168.0	3.5	3.3	8.1	3.22	1.94
116.0	109.0	142.0	152.0	3.5	3.3	0.4	1.79	0.700
117.0	111.0	142.0	152.0	3.5	3.3	0.4	1.70	0.700
118.0	112.0	149.0	160.0	3.5	3.3	2.8	2.13	1.27
119.0	113.0	161.0	168.0	3.5	3.3	8.1	3.04	1.94
129.0	114.0	170.0	174.0	8.0	3.3	15.4	4.15	2.69
131.0	115.0	171.0	179.0	8.0	3.3	15.0	4.70	2.28
105.0	110.0	170.0	193.0	3.5	3.3	1.8	1.55	2.55
141.0	128.0	187.0	193.0	7.0	3.3	19.7	6.05	4.06
132.0	121.0	192.0	201.0	7.0	3.3	18.9	8.30	3.02
122.0	116.0	161.0	168.0	3.5	3.3	8.1	2.90	1.94
124.0	118.0	171.0	181.0	3.5	3.3	6.5	4.09	1.74
116.0	114.0	136.0	141.0	1.5	1.5	-4.5	0.640	0.325
122.0	115.0	143.0	152.0	3.6	3.2	-13.5	0.882	0.498
122.0	116.0	146.0	154.0	3.5	3.3	1.4	1.55	0.775
122.0	116.0	146.0	156.0	3.5	3.3	-3.9	1.60	0.830
123.0	117.0	149.0	159.0	3.5	3.3	-2.0	1.75	0.850
126.0	120.0	171.0	181.0	3.5	3.3	6.5	3.88	1.74
141.0	128.0	187.0	193.0	8.0	3.3	19.7	5.86	4.06
139.0	126.0	192.0	201.7	8.0	3.3	18.9	7.74	3.02
131.0	125.0	160.0	172.0	3.5	3.3	-1.2	2.46	1.15
136.0	125.0	160.0	172.0	3.5	3.3	-5.5	1.87	1.10
132.0	125.0	171.0	181.0	3.5	3.3	6.5	3.48	1.74
141.0	128.0	187.0	193.1	7.0	3.3	19.7	5.73	4.06
143.0	131.0	192.0	201.7	7.0	3.3	18.7	7.31	3.02
133.0	126.0	171.0	181.0	3.5	3.3	6.5	3.43	1.74
140.0	137.0	157.0	165.0	1.5	1.5	0.4	1.48	0.505
135.0	129.0	103.0	168.0	3.6	1.5	3.6	1.82	0.835
139.0	134.0	186.0	198.0	3.3	3.3	2.1	4.52	1.92
152.0	140.0	209.0	217.0	6.4	3.3	14.0	8.17	3.96
140.0	137.0	159.0	162.0	1.5	1.5	-6.1	0.678	0.270
140.0	137.0	157.0	165.0	3.5	1.5	0.4	1.42	1.01
141.0	135.0	168.0	176.0	3.5	3.3	5.6	2.14	1.15
144.0	138.0	180.0	189.0	3.5	3.3	6.4	3.62	1.44
148.0	141.0	196.0	208.0	3.5	3.3	-2.2	5.01	1.93
167.0	143.0	187.0	224.0	6.4	3.3	-14.4	5.85	2.94
154.0	142.0	209.0	217.0		3.3	12.0	8.02	3.96

Bore diameter d:128.588~187.325mm



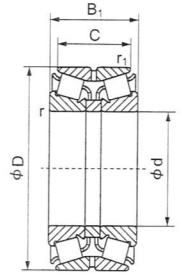
Principal dimensions							Designation		Basic load rating		Limiting speed (rpm)	
d	D	T	B	C	r_1 (min)	r_1 (min)	Inner ring	Outer ring	Dynamic Cr(N)	Static Cor(N)	Grease	Oil
128.588	190.500	34.925	31.750	25.400	3.5	3.3	**48506**	**48750**	222000	410000	1600	2100
	206.375	47.625	47.625	34.925	3.3	3.3	**799**	**792**	299000	500000	1700	2200
133.350	190.500	39.688	39.688	33.338	3.5	3.3	**48385**	**48320**	219000	430000	1700	2300
	203.200	46.038	46.038	38.100	3.5	3.3	**67390**	**67324**	295000	520000	1700	2200
	234.950	63.500	63.500	49.212	9.7	3.3	**95525**	**95925**	500000	770000	1500	2000
136.350	190.500	39.688	39.688	33.338	3.5	3.3	**48393**	**48320**	219000	430000	1700	2300
	215.900	47.625	47.625	34.925	3.5	3.3	**74537**	**74820**	320000	565000	1500	2100
	224.600	57.150	57.150	44.450	3.5	3.3	**896**	**892**	410000	655000	1600	2100
139.700	180.975	21.433	50.638	16.670	1.5	1.5	**LL428349**	**LL428310**	120000	214000	1700	2200
	215.900	47.625	47.625	34.925	3.5	3.3	**74550**	**74850**	320000	565000	1500	2100
	228.600	57.150	57.150	44.450	3.5	3.3	**898**	**892**	410000	655000	1600	2100
	241.300	57.150	56.642	44.450	3.5	3.3	**82550**	**82950**	410000	665000	1500	2100
	254.000	66.675	66.675	47.625	7.0	3.3	**99550**	**99100**	525000	855000	1300	1800
142.875	200.025	41.275	39.688	34.130	8.0	3.3	**48684**	**48620**	246000	505000	1600	2100
146.050	193.675	28.575	28.575	23.020	4.8	1.5	**36691**	**36620**	181000	375000	1600	2200
	203.200	28.575	28.575	23.020	1.5	1.5	**36690**	**36626**	181000	375000	1600	2200
	241.300	57.150	56.642	44.450	3.5	3.3	**82576**	**82950**	410000	665000	1500	2100
	254.000	66.675	66.675	47.625	7.0	3.3	**99575**	**99100**	525000	855000	1300	1800
	268.288	74.612	74.612	57.150	6.4	6.4	**EE107057**	**107105**	600000	925000	1300	1800
	304.800	88.900	82.550	57.150	6.4	6.4	**HH932145**	**HH932110**	730000	990000	1300	1800
149.225	236.538	57.150	56.642	44.450	3.5	3.3	**HM231149**	**HM231110**	475000	760000	1200	1700
	254.000	66.675	66.675	47.625	7.0	3.3	**99587**	**99100**	525000	855000	1300	1800
152.400	268.288	74.612	74.612	57.150	6.4	6.4	**EE107060**	**107105**	600000	925000	1300	1800
184.150	266.700	47.625	46.833	38.100	3.6	3.2	**67883**	**67820**	339000	703000	1100	1500
187.325	266.700	47.625	46.833	38.100	3.6	3.2	**67884**	**67820**	339000	703000	1100	1500

Note : when load center is (-), and it is out of inner ring plane

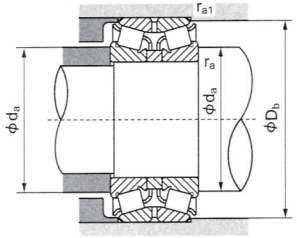


Abutment and fillet Dimensions, mm						Load Center (mm) a	Ref. Weight (kg)	
d_a (min)	d_b (min)	D_a (max)	D_b (max)	r_{1a} (max)	r_{2a} (max)		Inner ring	Outer ring
151.0	136.0	166.0	184.0	3.5	3.3	-15.4	2.12	1.16
146.0	140.0	186.0	198.0	3.3	3.3	2.1	3.84	1.92
148.0	142.0	177.0	184.0	3.3	3.3	4.0	2.41	1.15
149.0	143.0	183.0	193.0	3.5	3.3	6.4	3.40	1.61
166.0	148.0	209.0	217.0	9.7	3.3	14.0	8.00	3.96
151.0	144.0	177.0	184.0	3.5	3.3	4.0	2.21	1.15
148.0	141.0	196.0	208.0	3.5	3.3	-2.2	5.12	1.93
173.0	156.0	200.0	222.0	3.5	3.3	7.6	6.18	2.76
150.0	145.0	175.0	175.0	1.5	1.5	-7.3	0.90	0.45
158.0	151.0	196.0	208.0	3.5	3.3	-2.2	4.12	1.93
173.0	156.0	200.0	222.0	3.5	3.3	7.6	6.24	2.76
179.0	161.0	205.0	230.0	3.5	3.3	3.6	6.34	3.70
170.0	156.0	227.0	238.0	7.0	3.3	12.2	9.87	4.28
166.0	151.0	185.0	193.0	8.0	3.3	5.6	2.43	1.35
162.0	153.0	182.0	188.0	4.8	1.5	-4.9	1.62	0.77
155.0	153.0	186.0	190.0	1.5	1.5	-4.9	1.85	0.95
179.0	161.0	205.0	230.0	3.5	3.3	3.6	6.34	3.70
175.0	162.0	227.0	238.0	7.0	3.3	12.2	9.10	4.28
175.0	163.0	227.0	238.0	6.4	6.4	14.0	12.2	5.92
208.0	172.0	245.0	293.0	6.4	6.4	-4.5	1.85	8.80
175.0	163.0	215.0	229.0	3.5	3.3	15.7	6.42	2.72
178.0	165.0	227.0	238.0	7.0	3.3	12.2	8.73	4.28
181.0	162.0	237.0	238.0	6.4	6.4	14.0	11.6	5.92
232.0	207.0	234.0	259.0	3.6	3.2	-10.2	6.05	2.58
232.0	207.0	234.0	259.0	3.6	3.2	-10.2	5.71	2.58

Bore diameter d: 25~95mm

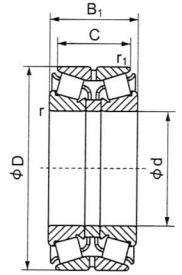


Principal dimensions						Designation	Basic load rating	
d	D	B_1	C	r (min)	r_1 (min)		Dynamic Cr(N)	Static Cor(N)
25	62	40	29.5	1.5	0.6	**25KDE13**	71000	90000
30	72	45	31.5	1.5	0.6	**30KDE13**	89000	113000
35	80	51	35.5	2	0.6	**35KDE13**	114000	149000
40	80	45	37.5	1.5	0.6	**40KBE02**	109000	141000
	80	55	43.5	1.5	0.6	**40KBE22**	134000	183000
	90	56	45.5	2	0.6	**40KBE03**	156000	202000
	90	56	39.5	2	0.6	**40KDE13**	138000	181000
45	85	47	37.5	1.5	0.6	**45KBE02**	120000	163000
	85	55	43.5	1.5	0.6	**45KBE22**	143000	205000
	100	60	49.5	2	0.6	**45KBE03**	190000	250000
	100	60	41.5	2	0.6	**45KDE13**	168000	224000
50	90	49	39.5	1.5	0.6	**50KBE02**	136000	193000
	90	55	43.5	1.5	0.6	**50KBE22**	152000	223000
	110	64	51.5	2.5	0.6	**50KBE03**	222000	294000
	110	64	43.5	2.5	0.6	**50KDE13**	194000	259000
55	100	51	41.5	2	0.6	**55KBE02**	163000	226000
	100	60	48.5	2	0.6	**55KBE22**	185000	275000
	120	70	57	2.5	0.6	**22KBE03**	254000	340000
	120	70	49	2.5	0.6	**55KDE13**	217000	297000
60	110	53	43.5	2	0.6	**60KBE02**	178000	246000
	110	66	54.5	2	0.6	**60KBE22**	226000	335000
	130	74	59	3	1	**60KBE03**	297000	400000
	130	74	51	3	1	**60KDE13**	259000	350000
65	120	56	48.5	2	0.6	**65KBE02**	211000	296000
	120	73	61.5	2	0.6	**65KBE22**	267000	400000
	140	79	63	3	1	**65KBE03**	340000	465000
	140	79	53	3	1	**65KDE13**	297000	410000
70	125	59	48.5	2	0.6	**70KBE02**	229000	330000
	125	74	61.5	2	0.6	**70KBE22**	270000	410000
	150	83	67	3	1	**70KBE03**	390000	540000
	150	83	57	3	1	**70KDE13**	345000	485000
75	130	62	51.5	2	0.6	**75KBE02**	246000	365000
	130	74	61.5	2	0.6	**75KBE22**	274000	440000
	160	87	69	3	1	**75KBE03**	365000	600000
80	140	64	51.5	2.5	0.6	**80KBE02**	270000	390000
	140	78	63.5	2.5	0.6	**80KBE22**	310000	505000
	170	92	73	3	1	**80KBE03**	400000	650000
85	150	70	57	2.5	0.6	**85KBE02**	300000	465000
	150	86	69	2.5	0.6	**85KBE22**	365000	560000
	180	98	77	4	1	**85KBE03**	445000	740000
90	160	74	61	2.5	0.6	**90KBE02**	335000	510000
	160	94	77	2.5	0.6	**90KBE22**	420000	695000
	190	102	81	4	1	**90KBE03**	450000	815000
95	170	78	63	3	1	**95KBE02**	365000	570000
	170	100	83	3	1	**95KBE22**	485000	780000
	200	108	85	4	1	**95KBE03**	565000	890000

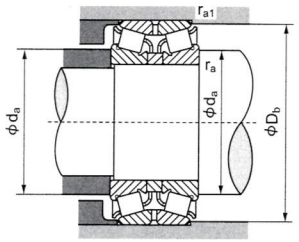


Abutment and fillet Dimensions, mm				Ref. Weight (kg)
d_a (min)	D_a (max)	r_a (max)	r_{a1} (max)	
32	59	1.5	0.6	0.505
37	68	1.5	0.6	0.755
44	76	2	0.6	1.04
47	75	1.5	0.6	0.900
47	75	1.5	0.6	1.12
49	82	2	0.6	1.52
49	86	2	0.6	1.43
52	80	15	0.6	1.02
52	80	15	0.6	1.21
54	93	2	0.6	1.99
54	95	2	0.6	1.88
57	85	15	0.6	1.14
57	85	15	0.6	1.31
60	102	2	0.6	2.56
60	104	2	0.6	2.41
64	94	2	0.6	1.48
64	94	2	0.6	1.77
65	111	2	0.6	3.31
65	113	2	0.6	3.13
69	102	2	0.6	1.88
69	102	2	0.6	2.38
72	120	2.5	1	4.10
72	123	2.5	1	3.87
74	113	2	0.6	2.37
74	112	2	0.6	3.15
77	130	2.5	1	5.06
77	133	2.5	1	4.77
79	118	2	0.6	2.63
79	117	2	0.6	3.37
82	140	2.5	1	6.08
82	142	2.5	1	5.74
84	124	2	0.6	2.90
84	123	2	0.6	3.54
87	149	2.5	1	7.23
90	132	2	0.6	3.52
90	132	2	0.6	4.37
92	159	2.5	1	8.62
95	141	2	0.6	4.45
95	140	2	0.6	5.57
99	167	3	1	10.3
100	150	2	0.6	5.39
100	150	2	0.6	6.98
104	177	3	1	11.9
107	159	2.5	1	6.45
107	158	2.5	1	7.92
109	186	3	1	13.9

Bore diameter d: 100~160mm

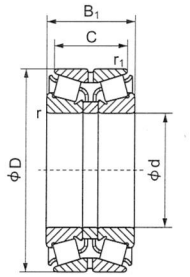


Principal dimensions						Designation	Basic load rating	
d	D	B_1	C	r (min)	r_1 (min)		Dynamic Cr(N)	Static Cor(N)
100	180	83	67	3	1	**100KBE02**	410000	660000
	180	107	87	3	1	**100KBE22**	545000	935000
	215	112	87	4	1	**100KBE03**	625000	990000
105	190	88	70	3	1	**105KBE02**	460000	730000
	190	115	95	3	1	**105KBE22**	605000	1020000
	225	116	91	4	1	**105KBE03**	655000	1070000
110	180	70	56	2.5	0.6	**110KBE031**	286000	500000
	180	56	50	2.5	0.6	**110KBE131**	246000	380000
	200	92	74	3	1	**110KBE02**	500000	830000
	200	121	101	3	1	**110KBE22**	595000	940000
	240	118	93	4	1	**110KBE03**	680000	1180000
120	180	58	46	2.5	0.6	**120KBE030**	221000	375000
	180	46	41	2.5	0.6	**120KBE130**	186000	295000
	200	78	62	2.5	0.6	**120KBE031**	405000	710000
	200	62	55	2.5	0.6	**120KBE131**	295000	455000
	215	97	78	3	1	**120KBE02**	515000	880000
	215	132	109	3	1	**120KBE22**	720000	1270000
	260	128	101	4	1	**120KBE03**	795000	1340000
130	200	65	52	2.5	0.6	**130KBE030**	300000	525000
	200	52	46	2.5	0.6	**130KBE130**	285000	490000
	210	80	64	2.5	0.6	**130KBE031**	380000	670000
	210	64	57	2.5	0.6	**130KBE131**	310000	500000
	230	98	78.5	4	1	**130KBE02**	560000	960000
	230	145	117.5	4	1	**130KBE22**	825000	1560000
	280	137	107.5	5	1.5	**130KBE03**	915000	1620000
140	210	66	53	2.5	0.6	**140KBE030**	310000	560000
	210	53	47	2.5	0.6	**140KBE130**	252000	425000
	225	84	68	3	1	**140KBE031**	420000	720000
	225	68	61	3	1	**140KBE131**	400000	705000
	250	102	82.5	4	1	**140KBE02**	640000	1070000
	250	153	125.5	4	1	**140KBE22**	960000	1820000
	300	145	115.5	5	1.5	**140KBE03**	1020000	1660000
150	225	70	56	3	1	**150KBE030**	345000	565000
	225	56	50	3	1	**150KBE130**	262000	430000
	250	100	80	3	1	**150KBE031**	570000	1050000
	250	80	71	3	1	**150KBE131**	520000	905000
	270	109	87	4	1	**150KBE02**	735000	1220000
	270	164	130	4	1	**150KBE22**	1050000	1980000
	320	154	120	5	1.5	**150KBE03**	1170000	1840000
160	240	75	60	3	1	**160KBE030**	385000	675000
	240	60	53	3	1	**160KBE130**	315000	495000
	270	108	86	3	1	**160KBE031**	675000	1160000
	270	86	76	3	1	**160KBE131**	530000	890000
	290	115	91	4	1	**160KBE02**	785000	1180000
	290	178	144	4	1	**160KBE22**	1220000	2210000
	340	160	126	5	1.5	**160KBE03**	1350000	2040000

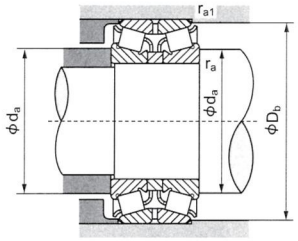


Abutment and fillet Dimensions, mm				Ref. Weight (kg)
d_a (min)	D_a (max)	r_a (max)	r_{a1} (max)	
112	168	2.5	1	7.74
112	168	2.5	1	10.2
114	200	3	1	16.9
117	178	2.5	1	9.19
117	178	2.5	1	12.2
119	209	3	1	19.1
120	168	2	0.6	6.47
120	169	2	0.6	3.36
122	188	2.5	1	10.7
122	188	2.5	1	14.3
124	222	3	1	22.3
130	170	2	0.6	4.43
130	171	2	0.6	3.90
130	186	2	0.6	9.10
130	185	2	0.6	7.48
132	203	2.5	1	12.9
132	203	2.5	1	17.8
134	239	3	1	28.3
140	189	2	0.6	6.37
140	187	2	0.6	5.66
140	195	2	0.6	9.91
140	196	2	0.6	8.20
144	218	3	1	14.7
144	218	3	1	22.1
148	258	4	1.5	35.1
150	198	2	0.6	6.86
150	199	2	0.6	6.12
152	213	2.5	1	11.09
152	212	2.5	1	9.94
154	237	3	1	18.2
154	237	3	1	27.8
158	277	4	1.5	42.5
162	213	2.5	1	8.35
162	215	2.5	1	7.42
162	235	2.5	1	18.2
162	233	2.5	1	15.1
164	255	3	1	22.9
164	255	3	1	35.1
168	295	4	1.5	51.2
172	227	2.5	1	10.2
172	229	2.5	1	9.05
172	254	2.5	1	23.3
172	253	2.5	1	19.2
174	275	3	1	28.0
174	275	3	1	44.2
178	311	4	1.5	59.9

Bore diameter d: 170~300mm

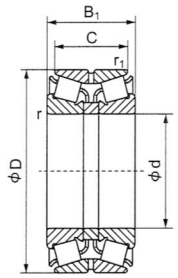


Principal dimensions						Designation	Basic load rating	
d	D	B_1	C	r (min)	r_1 (min)		Dynamic Cr(N)	Static Cor(N)
170	260	84	67	3	1	**170KBE030**	530000	1000000
	260	67	60	3	1	**170KBE130**	350000	585000
	280	110	88	3	1	**170KBE031**	705000	1240000
	280	88	78	3	1	**170KBE131**	545000	935000
	310	125	97	5	1.5	**170KBE02**	885000	1430000
	310	192	152	5	1.5	**170KBE22**	1420000	2610000
180	280	93	74	3	1	**180KBE030**	555000	975000
	280	74	66	3	1	**180KBE130**	450000	650000
	300	120	96	4	1.5	**180KBE031**	805000	1460000
	300	96	85	4	1.5	**180KBE131**	660000	1130000
	320	127	99	5	1.5	**180KBE02**	875000	1350000
	320	192	152	5	1.5	**180KBE22**	1480000	2720000
190	290	94	75	3	1	**190KBE030**	585000	1120000
	290	75	67	3	1	**190KBE130**	485000	850000
	320	130	104	4	1.5	**190KBE031**	1030000	1960000
	320	104	92	4	1.5	**190KBE131**	750000	1280000
	340	133	105	5	1.5	**190KBE02**	975000	1600000
	340	204	160	5	1.5	**190KBE22**	1580000	2880000
200	310	103	82	3	1	**200KBE030**	705000	1270000
	310	82	73	3	1	**200KBE130**	530000	880000
	340	140	112	4	1.5	**200KBE031**	1030000	1770000
	340	112	100	4	1.5	**200KBE131**	1000000	1770000
	360	142	110	5	1.5	**200KBE02**	1090000	1760000
	360	218	174	5	1.5	**200KBE22**	1830000	3450000
220	340	113	90	4	1.5	**220KBE031**	815000	1620000
	340	90	80	4	1.5	**220KBE130**	650000	1170000
	370	150	120	5	1.5	**220KBE031**	1240000	2400000
	370	120	107	5	1.5	**220KBE131**	955000	1640000
	400	158	122	5	1.5	**220KBE02**	1410000	2480000
240	360	115	92	4	1.5	**240KBE030**	850000	1780000
	360	92	82	4	1.5	**240KBE130**	680000	1230000
	400	160	128	5	1.5	**240KBE031**	1480000	2850000
	400	128	114	5	1.5	**240KBE131**	1160000	2130000
260	400	130	104	5	1.5	**260KBE030**	1100000	2160000
	400	104	92	5	1.5	**260KBE130**	835000	1520000
	440	180	144	5	1.5	**260KBE031**	1910000	3750000
	440	144	128	5	1.5	**260KBE131**	1350000	2540000
280	420	133	106	5	1.5	**280KBE030**	1240000	2580000
	420	106	94	5	1.5	**280KBE130**	905000	1670000
	460	183	146	6	1.5	**280KBE031**	1960000	3950000
	460	146	130	6	2	**280KBE131**	1530000	3000000
300	460	148	118	5	1.5	**300KBE030**	1520000	3150000
	460	118	105	5	1.5	**300KBE130**	1060000	2030000
	500	200	160	6	2	**300KBE031**	2100000	4100000
	500	160	142	6	2	**300KBE131**	1780000	3050000

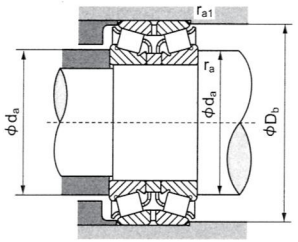


Abutment and fillet Dimensions, mm				Ref. Weight (kg)
d_a (min)	D_a (max)	r_a (max)	r_{a1} (max)	
182	244	2.5	1	13.8
182	246	2.5	1	12.2
182	262	2.5	1	24.8
182	264	2.5	1	20.5
188	290	4	1.5	35.0
188	295	4	1.5	54.7
192	262	2.5	1	18.1
192	265	2.5	1	16.0
194	281	3	1.5	31.5
194	281	3	1.5	26.1
198	301	4	1.5	37.0
198	305	4	1.5	57.0
202	273	2.5	1	19.1
202	276	2.5	1	17.0
204	296	3	1.5	39.3
204	298	3	1.5	32.5
208	319	4	1.5	440
208	330	4	1.5	68.8
212	295	2.5	1	54.5
212	295	2.5	1	21.7
214	318	3	1.5	48.2
214	316	3	1.5	39.9
218	336	4	1.5	53.0
218	340	4	1.5	82.8
234	320	3	1.5	32.2
234	325	3	1.5	28.5
238	348	4	1.5	60.5
238	347	4	1.5	50.0
238	374	4	1.5	73.4
254	340	3	1.5	35.1
254	345	3	1.5	31.2
258	372	4	1.5	74.6
258	377	4	1.5	61.8
278	383	4	1.5	50.9
278	382	4	1.5	45.3
278	409	4	1.5	103
278	415	4	1.5	85.5
298	396	4	1.5	55.3
298	403	4	1.5	48.9
302	429	5	2	111
302	434	5	2	91.6
318	437	4	1.5	76.3
318	436	4	1.5	67.6
322	474	5	2	146
322	471	5	2	121

Bore diameter d: 320~500mm

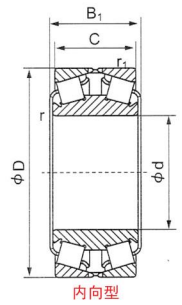


Principal dimensions						Designation	Basic load rating	
d	D	B_1	C	r (min)	r_1 (min)		Dynamic Cr(N)	Static Cor(N)
320	480	151	121	6	1.5	**320KBE030**	1560000	3200000
	480	121	108	5	1.5	**320KBE130**	1330000	2680000
	540	220	176	6	2	**320KBE031**	2530000	5050000
	540	176	157	6	2	**320KBE131**	2150000	3850000
340	520	165	133	6	2	**340KBE030**	1890000	3950000
	520	133	118	6	2	**340KBE130**	1600000	3150000
	580	238	190	6	2	**340KBE031**	2100000	6250000
	580	190	169	6	2	**340KBE131**	2460000	4600000
365	540	169	134	6	2	**360KBE030**	1980000	4400000
	540	134	120	6	2	**360KBE130**	1460000	2800000
	600	240	192	6	2	**360KBE031**	3200000	6650000
	600	192	171	6	2	**360KBE131**	2830000	5600000
380	560	171	135	6	2	**380KBE030**	2000000	4550000
	560	135	122	6	2	**380KBE130**	1700000	3550000
	620	243	194	6	2	**380KBE031**	3350000	7100000
	620	194	173	6	2	**380KBE131**	2900000	5900000
400	600	185	148	6	2	**400KBE030**	2430000	5350000
	600	148	132	6	2	**400KBE130**	2020000	4200000
	650	250	200	6	3	**400KBE031**	3550000	7650000
	650	200	178	6	3	**400KBE131**	3100000	6400000
420	620	188	150	6	2	**420KBE030**	3400000	5450000
	620	150	134	6	2	**420KBE130**	1870000	3950000
	700	280	224	6	3	**420KBE031**	4350000	9250000
	700	224	200	6	3	**420KBE131**	3900000	7950000
440	650	196	157	6	3	**440KBE030**	2730000	6150000
	650	157	140	6	3	**440KBE130**	2200000	4650000
	720	283	226	6	3	**440KBE031**	4450000	9750000
	720	226	201	6	3	**440KBE131**	4000000	8350000
460	680	204	163	6	3	**460KBE030**	3300000	8150000
	680	163	145	6	3	**460KBE130**	2420000	5150000
	760	300	240	7.5	4	**460KBE031**	5050000	11100000
	760	240	214	7.5	4	**460KBE131**	4550000	9600000
480	700	206	165	6	3	**480KBE030**	3050000	7050000
	700	165	147	6	3	**480KBE130**	2200000	4750000
	790	310	248	7.5	4	**480KBE031**	5100000	11000000
	790	248	221	7.5	4	**480KBE131**	4800000	10100000
500	720	209	167	6	3	**500KBE030**	3150000	7400000
	720	167	149	6	3	**500KBE130**	2520000	5550000
	830	330	264	7.5	4	**500KBE031**	5750000	12500000
	830	264	235	7.5	4	**500KBE131**	5200000	11000000



Abutment and fillet Dimensions, mm				Ref. Weight (kg)
d_a (min)	D_a (max)	r_a (max)	r_{a1} (max)	
338	455	5	1.5	81.9
338	453	4	1.5	73.0
342	499	5	2	190
342	502	5	2	157
362	488	5	2	108
362	489	5	2	97.2
362	537	5	2	239
362	540	5	2	198
382	514	5	2	116
382	511	5	2	102
382	558	5	2	252
382	559	5	2	208
402	532	5	2	123
402	531	5	2	108
402	578	5	2	266
402	579	5	2	219
422	566	5	2	157
422	566	5	2	139
428	607	5	2.5	299
428	608	5	2.5	247
442	585	5	2	166
442	582	5	2	147
448	652	5	2.5	400
448	651	5	2.5	331
468	614	5	2.5	190
468	615	5	2.5	169
468	572	5	2.5	419
468	654	5	2.5	346
488	648	5	2.5	217
488	642	5	2.5	193
490	707	6	3	500
496	709	6	3	414
508	662	5	2.5	227
508	665	5	2.5	202
516	736	6	3	556
516	737	6	3	460
528	683	5	2.5	238
528	684	5	2.5	211
536	752	6	3	660
536	774	6	3	540

Bore diameter d: 110~500mm



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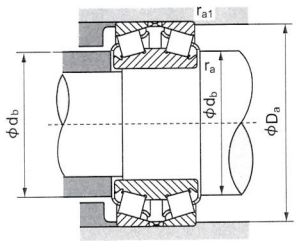
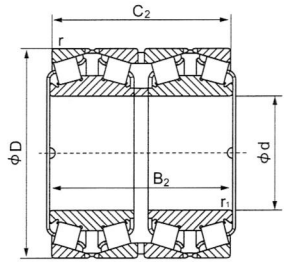
Principal dimensions						Designation	Basic load rating	
d	D	B_1	C	r (min)	r_1 (min)		Dynamic Cr(N)	Static Cor(N)
110	180	56	56	2	2.5	**110KBD031**	300000	505000
120	180	46	46	2	2.5	**120KBD030**	229000	424000
	220	62	62	2	2.5	**120KBD031**	353000	598000
130	200	52	52	2	2.5	**130KBD030**	300000	548000
	210	64	64	2	2.5	**130KBD031**	412000	657000
140	210	53	53	2	2.5	**140KBD030**	311000	564000
	225	68	68	2.5	3	**140KBD031**	486000	807000
150	225	56	56	2.5	3	**150KBD030**	355000	686000
	250	80	80	2.5	3	**150KBD031**	593000	955000
160	240	60	60	2.5	3	**160KBD030**	421000	705000
	270	86	86	2.5	3	**160KBD031**	678000	1100000
170	260	67	67	2.5	3	**170KBD030**	521000	956000
	280	88	88	2.5	3	**170KBD031**	723000	1210000
180	280	74	74	2.5	3	**180KBD030**	575000	1050000
	300	96	96	3	4	**180KBD031**	860000	1370000
190	290	75	75	2.5	3	**190KBD030**	599000	1130000
	320	104	104	3	4	**190KBD031**	981000	1590000
200	310	82	82	2.5	3	**200KBD030**	728000	1410000
	340	112	112	3	4	**200KBD031**	1080000	1840000
220	340	90	90	3	4	**220KBD030**	804000	1460000
	370	120	120	4	5	**220KBD031**	1210000	2060000
240	360	92	92	3	4	**240KBD030**	915000	1790000
	400	128	128	4	5	**240KBD031**	1430000	2470000
260	400	104	104	4	5	**260KBD030**	1140000	2120000
	440	144	144	4	5	**260KBD031**	1890000	3440000
280	420	106	106	4	5	**280KBD030**	1190000	2470000
300	460	118	118	4	5	**300KBD030**	1610000	3150000
	500	160	160	5	6	**300KBD031**	2120000	4240000
320	480	121	121	4	5	**320KBD030**	1630000	3180000
	540	176	176	5	6	**320KBD031**	2690000	5280000
340	580	190	190	5	6	**340KBD031**	3290000	5470000
360	540	134	134	5	6	**360KBD030**	2050000	3910000
	600	192	192	5	6	**360KBD031**	3360000	6750000
380	560	135	135	5	6	**380KBD030**	2060000	3790000
	620	194	194	5	6	**380KBD031**	3070000	6360000
400	600	148	148	5	6	**400KBD030**	2410000	4960000
	650	200	200	6	6	**400KBD031**	3850000	7810000
420	700	224	224	6	6	**420KBD031**	4710000	6380000
440	650	157	157	6	6	**440KBD030**	2750000	5500000
	720	226	226	6	6	**440KBD031**	4990000	9130000
460	680	163	163	6	6	**460KBD030**	3000000	5660000
480	700	165	165	6	6	**480KBD030**	3060000	6710000
500	720	167	167	6	6	**500KBD030**	3430000	7350000

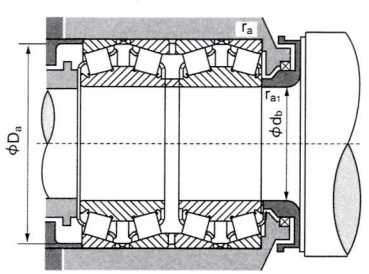


Abutment and fillet Dimensions, mm				Ref. Weight (kg)
d_a (min)	D_a (max)	r_a (max)	r_{a1} (max)	
128	160	2	2	5.4
138	163	2	2	40.8
142	178	2	2	79.2
152	179	2	2	5.96
153	185	2	2	8.41
159	188	2	2	6.45
160	210	2	2.5	10
174	203	2	2.5	7.78
179	220	2	2.5	15.5
184	217	2	2.5	9.22
193	237	2	2.5	19.8
195	233	2	2.5	12.4
201	247	2	2.5	21.6
208	250	2	2.5	16.8
210	263	2.5	3	26.5
219	260	2	2.5	17.7
224	280	2.5	3	34
234	280	2	2.5	22.9
244	300	2.5	3	41.9
259	306	2.5	3	28.5
263	324	3	4	50.8
271	325	2.5	3	32.2
286	354	3	4	65.4
302	360	3	4	48.1
313	386	3	4	92.2
321	370	3	4	51.9
350	418	3	4	78.5
356	440	4	5	129
368	434	3	4	77.8
378	474	4	5	167
401	515	4	5	202
408	488	4	5	101
419	528	4	5	228
428	510	4	5	112
445	545	4	5	234
452	545	4	5	143
458	580	5	5	265
488	623	5	5	352
500	592	5	5	182
506	642	5	5	367
510	616	5	5	197
531	625	5	5	215
545	645	5	5	222

Bore diameter d: 100~500mm

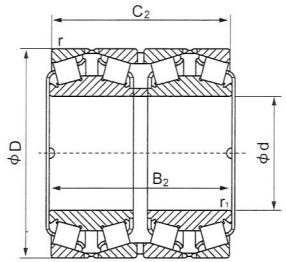


Principal dimensions								Designation
d		D		B_2		C		
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
100	3.9370	140	5.5118	104	4.0945	104	4.0945	**100KBV039**
110	4.3307	155	6.1023	114	4.4882	114	4.4882	**110KBV039**
120	4.7244	170	6.6929	124	4.8819	124	4.8819	**120KBV039**
130	5.1181	184	7.2441	134	5.2756	134	5.2756	**130KBV039**
140	5.5118	198	7.7952	144	5.6693	144	5.6693	**140KBV039**
150	5.9055	212	9.3465	155	6.1024	155	6.1024	**150KBV039**
160	6.2992	226	8.8976	165	6.4961	165	6.4961	**160KBV039**
170	6.6929	240	9.4488	175	6.8898	175	6.8898	**170KBV039**
180	7.0866	254	10.0000	185	7.2835	185	7.2835	**180KBV039**
190	7.4803	268	10.5512	196	7.7165	196	7.7165	**190KBV039**
200	7.8740	282	11.1024	206	8.1102	206	8.1102	**200KBV039**
220	8.6614	310	12.2047	226	8.8976	226	8.8976	**220KBV039**
240	9.4488	338	13.3071	248	9.7638	248	9.7638	**240KBV039**
260	10.2362	368	14.4882	268	10.5512	268	10.5512	**260KBV039**
280	11.0236	395	15.5512	288	11.3386	288	11.3386	**280KBV039**
300	11.8110	424	16.6929	310	12.2047	310	12.2047	**300KBV039**
320	12.5984	460	18.1102	338	13.3071	338	13.3071	**320KBV039**
340	13.3858	480	18.8976	350	13.7795	350	13.7795	**340KBV039**
360	14.1732	508	20.0000	370	14.5669	370	14.5669	**360KBV039**
380	14.9606	536	21.1024	390	15.3543	390	15.3543	**380KBV039**
400	15.7480	564	22.2047	412	16.2205	412	16.2205	**400KBV039**
420	16.5354	592	23.3071	432	17.0079	432	17.0079	**420KBV039**
440	17.3228	620	24.4094	454	17.8740	454	17.8740	**440KBV039**
460	18.1102	650	25.5906	474	18.6614	474	18.6614	**460KBV039**
480	18.8976	678	26.6929	494	19.4488	494	19.4488	**480KBV039**
500	19.6850	705	27.7559	515	20.2755	515	20.2755	**500KBV039**

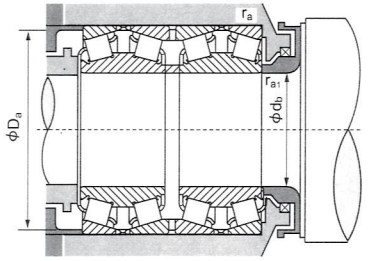


Basic load rating		r (min)	r_1 (min)	Abutment and fillet Dimensions, mm				Ref. Weight (kg)
Dynamic Cr(N)	Static Cor(N)			d_a	D_a	r_a (max)	r_{a1} (max)	
300000	725000	2	2	108	130	2	2	5.0
365000	790000	2.5	2.5	120	145	2	2	6.4
435000	910000	2.5	2.5	130	160	2	2	8.5
555000	1330000	2.5	2.5	140	174	2	2	12.3
580000	1330000	2.5	2.5	153	184	2	2	13.3
680000	1550000	2.5	2.5	161	200	2	2	15.0
725000	1950000	2.5	2.5	173	208	2	2	20.2
915000	2220000	2.5	2.5	183	225	2	2	23.7
980000	2410000	2.5	2.5	193	235	2	2	28.0
1030000	2760000	2.5	2.5	204	245	2	2	33.0
1290000	3400000	2.5	2.5	215	263	2	2	49.2
1500000	4000000	3	3	234	296	2.5	2.5	52.7
1740000	4450000	3	3	260	310	2.5	2.5	68.3
2010000	5750000	4	4	282	348	3	3	90.0
2540000	7050000	4	4	300	374	3	3	108
2600000	6800000	4	4	320	394	3	3	137
3100000	8800000	4	4	340	428	3	3	183
3400000	10100000	5	5	362	458	4	4	198
4050000	11900000	5	5	382	486	4	4	233
4450000	13600000	5	5	408	500	4	4	271
4700000	14000000	5	5	422	542	4	4	317
4900000	14000000	5	5	450	556	4	4	366
6500000	19900000	6	6	474	574	5	5	422
6800000	19600000	6	6	488	622	5	5	487
7350000	22900000	6	6	545	637	5	5	552
7650000	24000000	6	6	528	677	5	5	650

Bore diameter d: 136.525~609.600mm



Principal dimensions								Designation
d		D		B_2		C		
(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
136.525	5.3750	190.500	7.5000	161.925	6.3750	161.925	6.3750	**B26417**
139.700	5.5000	200.025	7.8750	157.165	6.1876	160.340	6.3126	**B29806**
152.400	6.0000	222.250	8.7500	174.625	6.8750	174.625	6.8750	**C21017**
165.100	6.5000	225.425	8.8750	168.275	6.6250	168.275	6.6250	**B25917**
177.800	7.0000	247.650	9.7500	192.088	7.5625	192.088	7.5625	**C20498**
190.500	7.5000	266.700	10.5000	187.325	7.3750	188.912	7.4375	**C19114**
244.475	9.6250	327.025	12.8750	193.675	7.6250	193.675	7.6250	**C27913**
254.000	10.0000	358.775	14.1250	269.875	10.6250	239.875	10.6250	**C27916**
260.350	10.2500	422.275	16.6250	314.325	12.3750	317.500	12.5000	**C22144**
266.700	10.5000	355.600	14.0000	230.188	9.0625	228.600	9.0000	**C19619**
266.700	10.5000	355.600	14.0000	230.188	9.0625	228.600	9.0000	**C29167**
279.400	11.0000	393.700	15.5000	269.875	10.6250	269.875	10.6250	**C19116**
285.750	11.2500	380.898	14.9960	244.475	9.6250	244.475	9.6250	**C27768**
304.800	12.0000	419.100	16.5000	269.875	10.6250	269.875	10.6250	**C24618**
333.375	13.1250	469.900	18.5000	342.900	13.5000	342.900	13.5000	**C21093**
343.052	13.5060	457.098	17.9960	254.000	10.0000	254.000	10.0000	**C29794**
346.075	13.6250	488.950	19.2500	358.775	14.1250	358.775	14.1250	**C21179**
384.175	15.1250	546.100	21.5000	400.050	15.7500	400.050	15.7500	**E17237**
406.400	16.0000	546.100	21.5000	288.925	11.3750	288.925	11.3750	**E21147**
431.800	17.0000	571.500	22.5000	279.400	11.0000	279.400	11.0000	**E12751**
447.675	17.6250	635.000	25.0000	463.550	18.2500	463.550	18.2500	**E17442**
457.200	18.0000	596.900	23.5000	276.225	10.8750	279.400	11.0000	**E22321**
479.425	18.8750	679.450	26.7500	495.300	19.5000	495.300	19.5000	**E17717**
482.600	19.0000	615.950	24.2500	330.200	13.0000	330.200	13.0000	**E24206**
482.600	19.0000	647.700	25.5000	417.512	16.4375	417.512	16.4375	**E12372**
488.950	19.2500	660.400	26.0000	365.125	14.3750	361.950	14.2500	**E12371**
571.500	22.5000	812.800	32.0000	593.725	23.3750	593.725	23.3750	**E23120**
609.600	24.0000	787.400	31.0000	361.950	14.2500	361.950	14.2500	**E11996**



Basic load rating		r (min)	r_1 (min)	Abutment and fillet Dimensions, mm				Ref. Weight (kg)
Dynamic Cr(N)	Static Cor(N)			d_a	D_a	r_a (max)	r_{a1} (max)	
715000	1900000	3.3	1.6	147	183	1.5	3.2	14.9
720000	2020000	3.3	0.8	147	182	0.8	3.2	17.7
910000	2070000	1.6	1.6	164	210	1.5	1.5	22.7
755000	2270000	3.2	0.8	175	207	0.8	3.2	20.2
990000	2720000	3.3	1.5	190	229	1.5	3.2	29.0
1030000	2900000	3.3	1.5	204	246	1.5	3.2	37.7
1370000	3550000	3.3	1.5	258	309	1.5	3.2	43.0
2120000	5800000	3.4	1.6	275	335	1.5	3.2	85.5
2980000	7150000	3.3	6.4	297	404	6.4	3.2	178
1490000	4700000	3.2	1.6	277	337	1.5	3.2	65.5
1790000	5200000	3.3	1.5	280	335	1.5	3.2	64.4
1920000	5300000	6.4	1.5	297	357	1.5	6.4	103
1870000	6300000	3.3	1.5	296	362	1.5	3.2	84.3
2460000	7050000	6.4	1.5	320	383	1.5	6.4	110
3450000	9900000	3.2	3.2	352	451	3.2	3.2	193
2480000	7150000	3.3	1.5	356	428	1.5	3.2	113
3950000	11600000	3.3	3.3	365	452	3.2	3.2	208
5750000	16600000	6.4	3.3	414	507	3.2	6.4	308
3050000	8500000	6.4	1.5	427	510	1.5	6.4	186
2990000	9550000	3.3	1.5	452	540	1.5	3.2	191
6700000	20500000	6.4	3.3	466	599	3.2	6.4	491
2950000	9900000	3.3	1.5	478	567	1.5	3.2	200
6450000	18900000	6.4	3.2	510	633	3.2	6.4	590
3600000	11900000	6.4	3.4	501	579	3.2	6.4	251
5950000	14800000	6.4	3.3	505	611	3.2	6.4	432
5250000	19900000	6.4	8.0	525	624	7.8	6.4	347
10300000	34000000	6.4	3.3	608	776	3.2	6.4	1020
4800000	17300000	6.4	3.3	637	747	3.2	6.4	460