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Bearings - Premium (Koyo)

Koyo Premium Bearings

Finer Power Transmissions



Koyo

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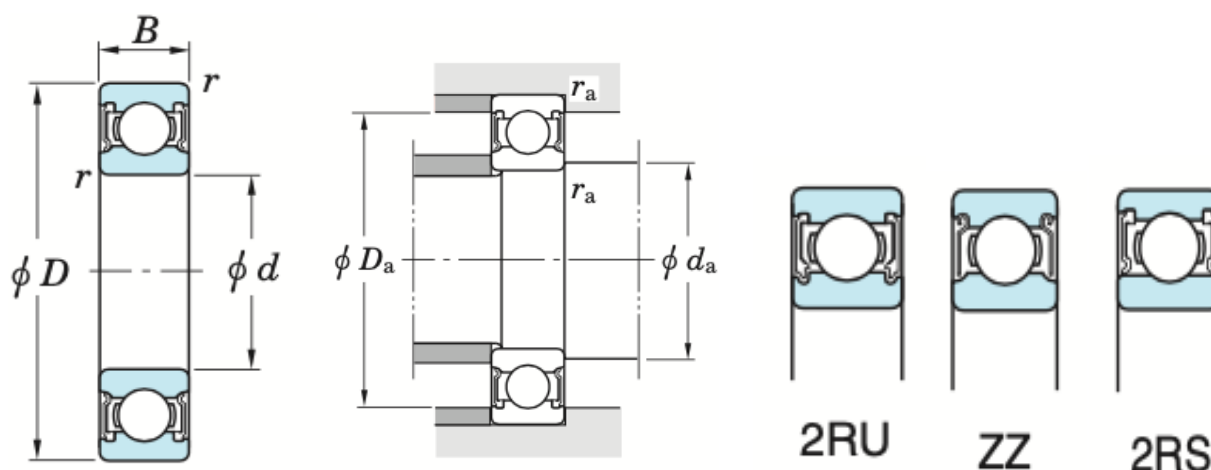
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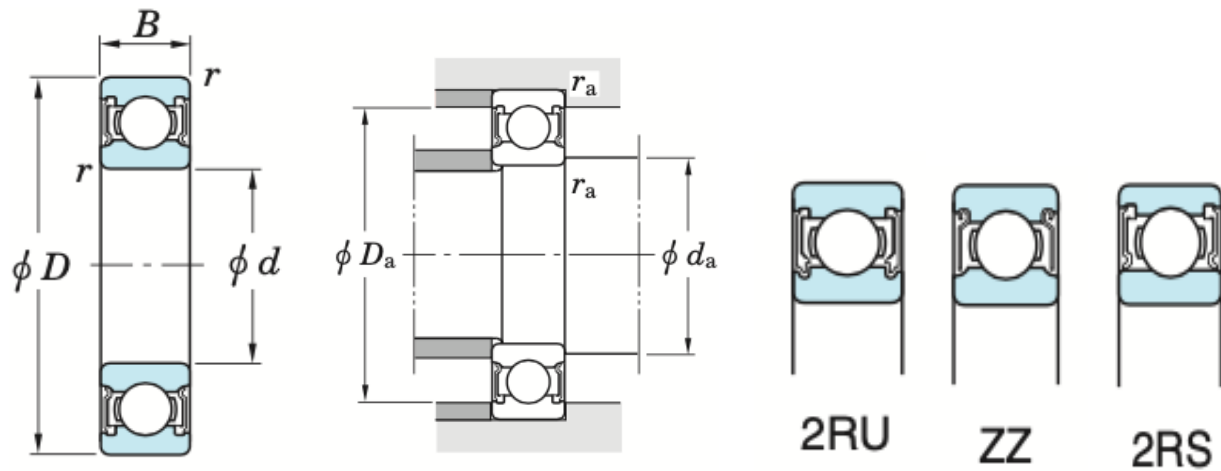
Deep Groove Ball Bearings

6000 Series

Koyo



Boundary dimentions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD,2RD)	(RS,2RS)	(Z)	
10 10	26 26	8 8	0.3 0.3	5.7 5.7	1.95 1.95	0.1 0.1	12.3 12.3	31 000 31 000	28 000 28 000	19 000 19 000	36 000 36 000	6000*
12 12	28 28	8 8	0.3 0.3	6.4 6.4	2.4 2.4	0.12 0.12	13.2 13.2	27 000 27 000	24 000 24 000	17 000 17 000	32 000 32 000	6001
15 15	32 32	9 9	0.3 0.3	7 7	2.85 2.85	0.15 0.15	13.9 13.9	23 000 23 000	21 000 21 000	14 000 14 000	27 000 27 000	6002
17 17	35 35	10 10	0.3 0.3	7.5 7.5	3.25 3.25	0.17 0.17	14.4 14.4	21 000 21 000	19 000 19 000	12 000 12 000	25 000 25 000	6003
20 20	42 42	12 12	0.6 0.6	11.7 11.7	5.05 5.05	0.35 0.35	13.9 13.9	17 000 17 000	15 000 15 000	10 000 10 000	21 000 21 000	6004
25 25	47 47	12 12	0.6 0.6	12.6 12.6	5.85 5.85	0.38 0.38	14.5 14.5	15 000 15 000	14 000 14 000	9 000 9 000	18 000 18 000	6005
30 30	55 55	13 13	1 1	16.5 16.5	8.25 8.25	0.53 0.53	14.7 14.7	13 000 13 000	12 000 12 000	7 500 7 500	15 000 15 000	6006
35 35	62 62	14 14	1 1	19.9 19.9	10.3 10.3	0.64 0.64	14.9 14.9	11 000 12 000	9 900 10 900	6 500 6 500	15 000 15 000	6007
40 40	68 68	15 15	1 1	20.9 20.9	11.5 11.5	0.69 0.69	15.2 15.2	10 000 10 000	9 000 9 000	5 800 5 800	12 000 12 000	6008
45 45	75 75	16 16	1 1	26.2 26.2	15.1 15.1	0.9 0.9	15.3 15.3	9 200 10 200	8 300 8 300	5 300 5 300	11 000 11 000	6009
50 50	80 80	16 16	1 1	27.3 27.3	16.6 16.6	0.96 0.96	15.6 15.6	8 400 9 400	7 600 8 600	4 800 4 800	9 900 9 900	6010
55 55	90 90	18 18	1.1 1.1	35.3 35.3	21.2 21.2	1.25 1.25	15.3 15.3	7 600 7 600	6 800 6 800	4 300 4 300	8 900 8 900	6011
60 60	95 95	18 18	1.1 1.1	36.8 36.8	23.2 23.2	1.35 1.35	15.6 15.6	7 100 7 100	- -	4 000 4 000	8 400 8 400	6012

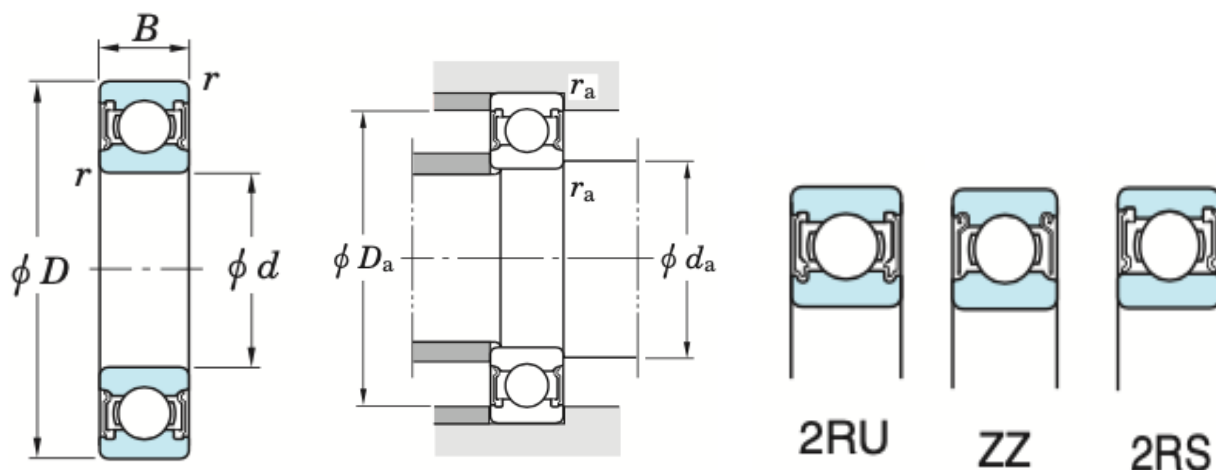


Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6000 ZZ 6000 ZZ	6000 2RU 6000 2RU	6000 2RD* 6000 2RD*	6000 2RS 6000 2RS	12 12	13 13	24 24	0.3 0.3	0.019 0.019
6001 ZZ 6001 ZZ	6001 2RU 6001 2RU	6001 2RD* 6001 2RD*	6001 2RS 6001 2RS	14 14	15 15	26 26	0.3 0.3	0.022 0.022
6002 ZZ 6002 ZZ	6002 2RU 6002 2RU	6002 2RD* 6002 2RD*	6002 2RS 6002 2RS	17 17	18.5 18.5	30 30	0.3 0.3	0.03 0.03
6003 ZZ 6003 ZZ	6003 2RU 6003 2RU	6003 2RD* 6003 2RD*	6003 2RS 6003 2RS	19 19	21 21	33 33	0.3 0.3	0.039 0.039
6004 ZZ 6004 ZZ	6004 2RU 6004 2RU	6004 2RD* 6004 2RD*	6004 2RS 6004 2RS	24 24	25 25	38 38	0.6 0.6	0.069 0.069
6005 ZZ 6005 ZZ	6005 2RU 6005 2RU	6005 2RD* 6005 2RD*	6005 2RS 6005 2RS	29 29	29.5 29.5	43 43	0.6 0.6	0.08 0.08
6006 ZZ 6006 ZZ	6006 2RU 6006 2RU	6006 2RD* 6006 2RD*	6006 2RS 6006 2RS	35 35	36 36	50 50	1 1	0.116 0.116
6007 ZZ 6007 ZZ	6007 2RU 6007 2RU	6007 2RD* 6007 2RD*	6007 2RS 6007 2RS	40 40	42 42	58 58	1 1	0.155 0.155
6008 ZZ 6008 ZZ	6008 2RU 6008 2RU	6008 2RD* 6008 2RD*	6008 2RS 6008 2RS	45 45	46.5 46.5	63 63	1 1	0.192 0.192
6009 ZZ 6009 ZZ	6009 2RU 6009 2RU	6009 2RD* 6009 2RD*	6009 2RS 6009 2RS	50 50	51.5 51.5	70 70	1 1	0.245 0.245
6010 ZZ 6010 ZZ	6010 2RU 6010 2RU	6010 2RD* 6010 2RD*	6010 2RS 6010 2RS	55 55	57 57	75 75	1 1	0.261 0.261
6011 ZZ 6011 ZZ	6011 2RU 6011 2RU	6011 2RD* 6011 2RD*	6011 2RS 6011 2RS	61.5 61.5	62 62	83.5 83.5	1 1	0.385 0.385
6012 ZZ 6012 ZZ	6012 2RU 6012 2RU	6012 2RD* 6012 2RD*	6012 2RS 6012 2RS	66.5 66.5	68.5 68.5	88.5 88.5	1 1	0.415 0.415

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

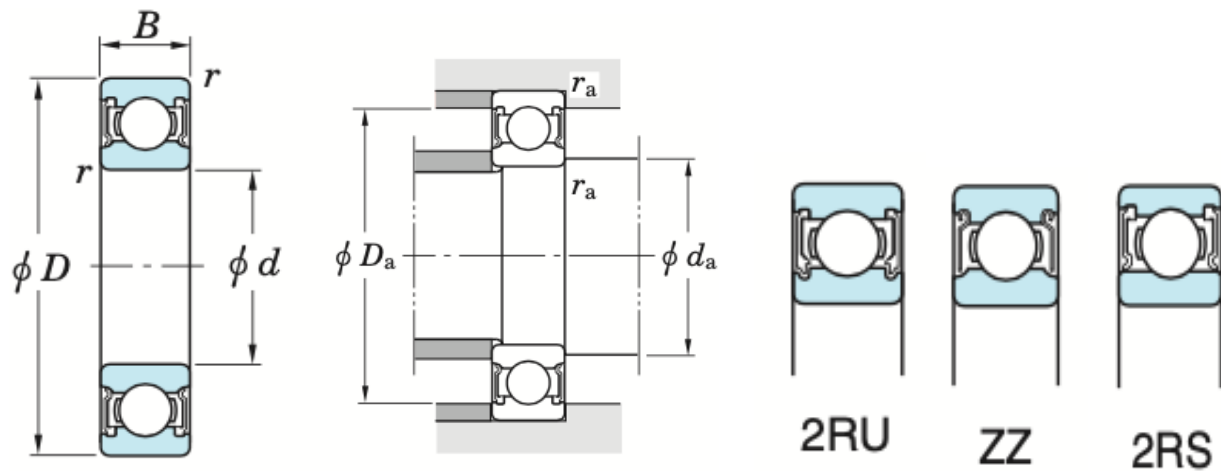
Deep Groove Ball Bearings 6000 Series

Koyo



Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds			Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub	Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RS, 2RS)	(Z)	
65 65	100 100	18 18	1.1 1.1	38.1 38.1	25.2 25.2	1.4 1.4	15.8 15.8	7 600 7 600	3 700 3 700	7 800 7 800	6013
70 70	110 110	20 20	1.1 1.1	47.6 47.6	30.9 30.9	1.8 1.8	15.6 15.6	7 100 7 100	3 500 3 500	7 200 7 200	6014
75 75	115 115	20 20	1.1 1.1	49.4 49.4	33.5 33.5	1.9 1.9	15.8 15.8	6 700 6 700	4 300 5 300	6 800 6 800	6015
80	125	22	1.1	59.5	39.8	2.25	15.6	5 300	4 300	6 300	6016
85 85	130 130	22 22	1.1 1.1	61.8 61.8	43.1 43.1	2.35 2.35	15.8 15.8	5 000 6 000	2 900 2 900	5 900 5 900	6017
90 90	140 140	24 24	1.5 1.5	72.8 72.8	49.7 49.7	2.65 2.65	15.6 15.6	4 700 5 700	2 700 2 700	5 600 5 600	6018
95 95	145 145	24 24	1.5 1.5	75.5 75.5	53.9 53.9	2.75 2.75	15.8 15.8	4 400 4 400	2 500 2 500	5 200 -	6019
100 100	150 150	24 24	1.5 1.5	75.2 75.2	54.2 54.2	2.7 2.7	15.9 15.9	4 300 5 300	2 500 3 500	5 100 6 100	6020
105	160	26	2	90.4	65.8	3.2	15.8	4 000	2 300	4 700	6021*
110	170	28	2	103	73	3.55	15.6	3 800	2 200	4 500	6022*
120	180	28	2	106	79.3	3.6	15.9	3 600	2 100	4 200	6024
130 130	200 200	33 33	2 2	133 133	101 101	4.45 4.45	15.8 15.8	3 200 3 200	1 900 2 900	3 800 3 800	6026*
150	225	35	2.1	157	126	5.1	16	2 800	1 600	3 300	6030*

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.



Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6013 ZZ 6013 ZZ	6013 2RU 6013 2RU	- -	6013 2RS 6013 2RS	71.5 71.5	74.5 74.5	93.5 93.5	1 1	0.435 0.435
6014 ZZ 6014 ZZ	6014 2RU 6014 2RU	- -	6014 2RS 6014 2RS	76.5 76.5	79.5 79.5	103.5 103.5	1 1	0.602 0.602
6015 ZZ 6015 ZZ	6015 2RU 6015 2RU	- -	6015 2RS 6015 2RS	81.5 81.5	84.5 84.5	108.5 108.5	1 1	0.638 0.638
6016 ZZ 6016 ZZ	6016 2RU	- -	6016 2RS 6016 2RS	86.5 86.5	90 90	118.5 118.5	1 1	0.85 0.85
6017 ZZ 6017 ZZ	6017 2RU 6017 2RU	-	6017 2RS 6017 2RS	91.5 91.5	96.5 96.5	123.5 123.5	1 1	0.89 0.89
6018 ZZ 6018 ZZ	6018 2RU 6018 2RU	- -	6018 2RS 6018 2RS	98 98	100.5 100.5	132 132	1.5 1.5	1.16 1.16
6019 ZZ 6019 ZZ	6019 2RU 6019 2RU	- -	6019 2RS 6019 2RS	103 103	107.5 107.5	137 137	1.5 1.5	1.21 1.21
6020 ZZ	6020 2RU	-	6020 2RS	108	112	142	1.5	1.25
- -	6021 2RU 6021 2RU	- -	6021 2RS 6021 2RS	108 114	112 119	142 151	1.5 2	1.25 1.59
6022 ZZ	6022 2RU	-	6022 2RS	119	123	161	2	1.96
6024 ZZ	6024 2RU	-	6024 2RS	129	136	171	2	2.07
6026 ZZ	6026 2RU	-	6026 2RS	139	146.5	191	2	3.16
6030 ZZ	6030 2RU	-	6030 2RS	171	178.5	229	2	4.22

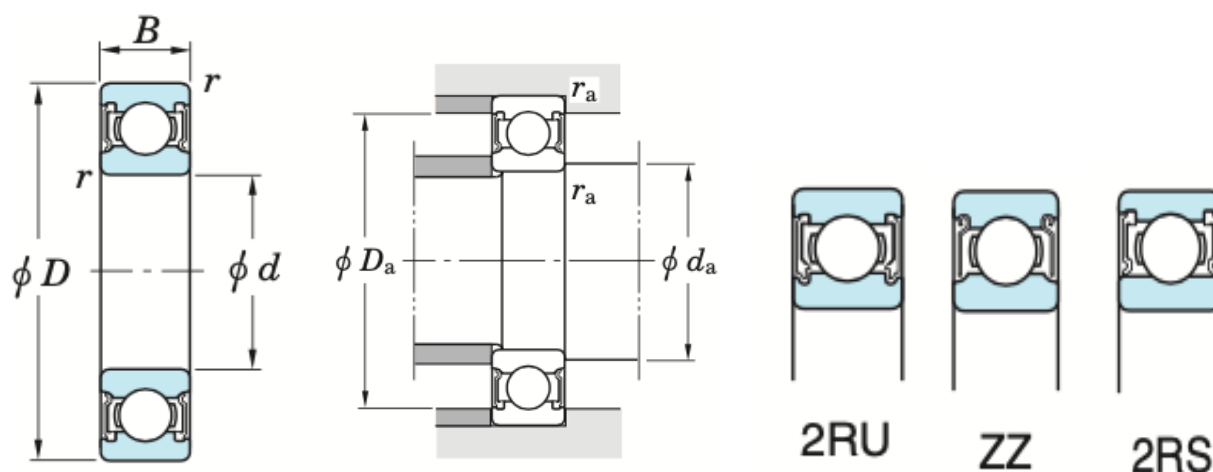
*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

Also Stocking	
6028-2RS	(140x210x33)
6028-2RSC3	(140x210x33)

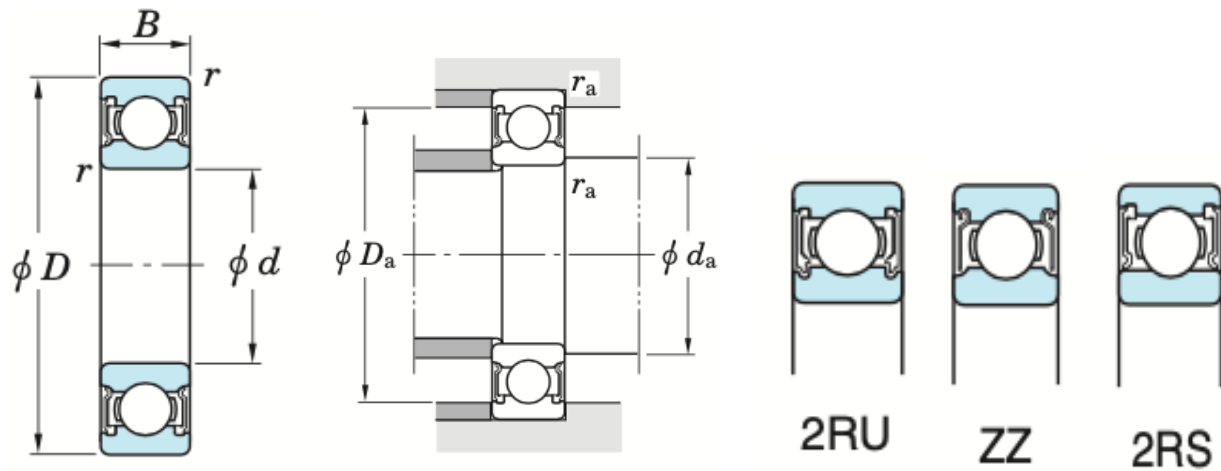
Deep Groove Ball Bearings

6200 Series

Koyo



Boundary dimentions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD,2RD)	(RS,2RS)	(Z)	
10 10	30 30	9 9	0.6 0.6	6.4 6.4	2.4 2.4	0.12 0.12	13.2 13.2	24 000 24 000	22 000 22 000	16 000 16 000	29 000 29 000	6200
12 12	32 32	10 10	0.6 0.6	8.5 8.5	3.05 3.05	0.24 0.24	12.3 12.3	22 000 22 000	20 000 20 000	15 000 15 000	27 000 27 000	6201
15 15	35 35	11 11	0.6 0.6	9.55 9.55	3.75 3.75	0.29 0.29	13.2 13.2	20 000 20 000	18 000 18 000	13 000 13 000	24 000 24 000	6202
17 17	40 40	12 12	0.6 0.6	12 12	4.8 4.8	0.37 0.37	13.2 13.2	17 000 17 000	15 000 15 000	12 000 12 000	21 000 21 000	6203
20 20	47 47	14 14	1 1	16 16	6.65 6.65	0.51 0.51	13.2 13.2	15 000 15 000	14 000 14 000	9 700 9 700	17 000 17 000	6204
25 25	52 52	15 15	1 1	17.5 17.5	7.85 7.85	0.55 0.55	13.9 13.9	13 000 13 000	12 000 12 000	8 400 8 400	15 000 15 000	6205
30 30	62 62	16 16	1 1	24.3 24.3	11.3 11.3	0.8 0.8	13.9 13.9	11 000 11 000	9 900 9 900	7 000 7 000	13 000 13 000	6206
35 35	72 72	17 17	1.1 1.1	32.1 32.1	15.4 15.4	1.1 1.1	13.9 13.9	9 200 9 200	8 300 8 300	6 000 6 000	11 000 11 000	6207
40 40	80 80	18 18	1.1 1.1	36.4 36.4	17.8 17.8	1.25 1.25	14 14	8 300 8 300	7 500 7 500	5 400 5 400	10 000 10 000	6208
45 45	85 85	19 19	1.1 1.1	40.9 40.9	20.3 20.3	1.4 1.4	14 14	7 700 7 700	6 900 6 900	5 100 5 100	9 200 9 200	6209
50 50	90 90	20 20	1.1 1.1	43.9 43.9	23.3 23.3	1.55 1.55	14.4 14.4	7 100 7 100	6 400 6 400	4 600 4 600	8 500 8 500	6210
55 55	100 100	21 21	1.5 1.5	54.2 54.2	29.4 29.4	1.95 1.95	14.4 14.4	6 300 6 300	5 700 5 700	4 100 4 100	7 600 7 600	6211
60 60	110 110	22 22	1.5 1.5	65.6 65.6	36.2 36.2	2.4 2.4	14.4 14.4	5 700 5 700	5 100 5 100	3 700 3 700	6 900 6 900	6212
65 65	120 120	23 23	1.5 1.5	71.5 71.5	40.1 40.1	2.65 2.65	14.4 14.4	5 400 5 400	- -	3 500 3 500	6 400 6 400	6213
70 70	125 125	24 24	1.5 1.5	77.8 77.8	44.1 44.1	2.9 2.9	14.5 14.5	5 100 5 100	- -	3 300 3 300	6 100 6 100	6214



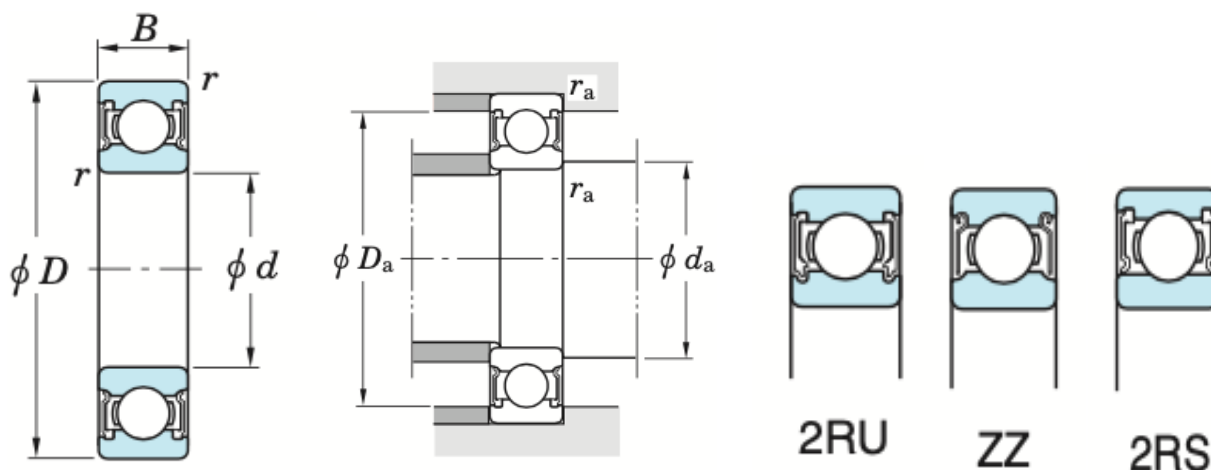
Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6200 ZZ 6200 ZZ	6200 2RU 6200 2RU	6200 2RD* 6200 2RD*	6200 2RS 6200 2RS	14 14	15 15	26 26	0.6 0.6	0.032 0.032
6201 ZZ 6201 ZZ	6201 2RU 6201 2RU	6201 2RD* 6201 2RD*	6201 2RS 6201 2RS	16 16	16.5 16.5	28 28	0.6 0.6	0.037 0.037
6202 ZZ 6202 ZZ	6202 2RU 6202 2RU	6202 2RD* 6202 2RD*	6202 2RS 6202 2RS	19 19	19.5 19.5	31 31	0.6 0.6	0.045 0.045
6203 ZZ 6203 ZZ	6203 2RU 6203 2RU	6203 2RD* 6203 2RD*	6203 2RS 6203 2RS	21 21	22 22	36 36	0.6 0.6	0.065 0.065
6204 ZZ 6204 ZZ	6204 2RU 6204 2RU	6204 2RD* 6204 2RD*	6204 2RS 6204 2RS	25 25	26.5 26.5	42 42	1 1	0.106 0.106
6205 ZZ 6205 ZZ	6205 2RU 6205 2RU	6205 2RD* 6205 2RD*	6205 2RS 6205 2RS	30 30	31.5 31.5	47 47	1 1	0.128 0.128
6206 ZZ 6206 ZZ	6206 2RU 6206 2RU	6206 2RD* 6206 2RD*	6206 2RS 6206 2RS	35 35	37.5 37.5	57 57	1 1	0.199 0.199
6207 ZZ 6207 ZZ	6207 2RU 6207 2RU	6207 2RD* 6207 2RD*	6207 2RS 6207 2RS	41.5 41.5	43.5 43.5	65.5 65.5	1 1	0.288 0.288
6208 ZZ 6208 ZZ	6208 2RU 6208 2RU	6208 2RD* 6208 2RD*	6208 2RS 6208 2RS	46.5 46.5	49 49	73.5 73.5	1 1	0.366 0.366
6209 ZZ 6209 ZZ	6209 2RU 6209 2RU	6209 2RD* 6209 2RD*	6209 2RS 6209 2RS	51.5 51.5	53.5 53.5	78.5 78.5	1 1	0.407 0.407
6210 ZZ 6210 ZZ	6210 2RU 6210 2RU	6210 2RD* 6210 2RD*	6210 2RS 6210 2RS	56.5 56.5	59 59	83.5 83.5	1 1	0.463 0.463
6211 ZZ 6211 ZZ	6211 2RU 6211 2RU	6211 2RD* 6211 2RD*	6211 2RS 6211 2RS	63 63	66 66	92 92	1.5 1.5	0.607 0.607
6212 ZZ 6212 ZZ	6212 2RU 6212 2RU	6212 2RD* 6212 2RD*	6212 2RS 6212 2RS	68 68	72.5 72.5	102 102	1.5 1.5	0.783 0.783
6213 ZZ 6213 ZZ	6213 2RU 6213 2RU	6213 2RD* 6213 2RD*	6213 2RS 6213 2RS	73 73	79 79	112 112	1.5 1.5	0.99 0.99
6214 ZZ 6214 ZZ	6214 2RU 6214 2RU	- -	6214 2RS 6214 2RS	78 78	84 84	117 117	1.5 1.5	1.07 1.07

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

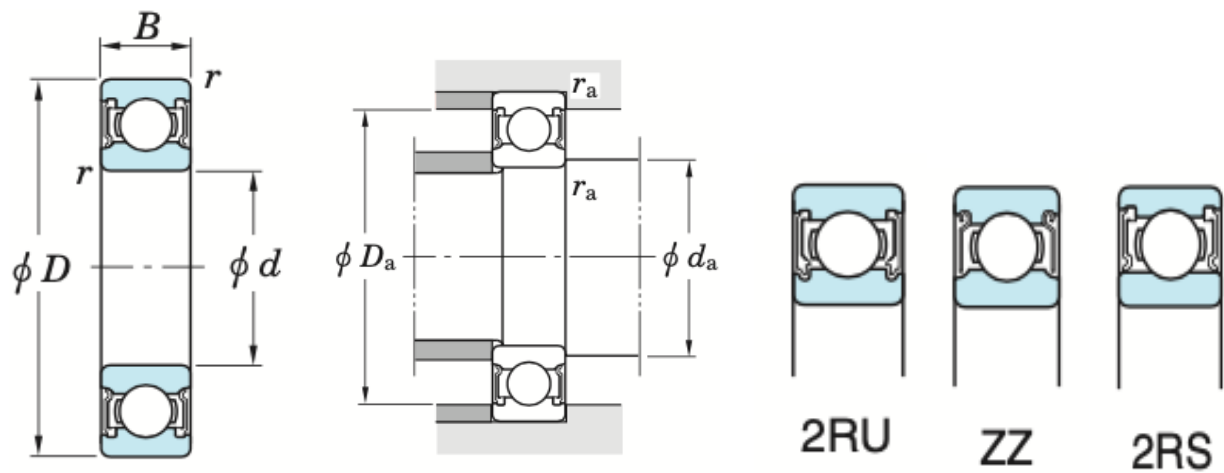
Deep Groove Ball Bearings

6200 Series

Koyo



Boundary dimitions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD,2RD)	(RS,2RS)	(Z)	
75 75	130 130	25 25	1.5 1.5	84.3 84.3	48.3 48.3	3.1 3.1	14.5 14.5	4 800 4 800	- -	3 100 3 100	5 800 5 800	6215
80 80	140 140	26 26	2 2	90.9 90.9	53 53	3.25 3.25	14.6 14.6	4 500 4 500	- -	2 900 2 900	5 400 5 400	6216
85 85	150 150	28 28	2 2	105 105	61.9 61.9	3.7 3.7	14.5 14.5	4 200 4 200	- -	2 700 2 700	5 000 5 000	6217
90 90	160 160	30 30	2 2	120 120	71.5 71.5	4.2 4.2	14.5 14.5	3 900 3 900	- -	2 600 2 600	4 700 4 700	6218
95 95	170 170	32 32	2.1 2.1	136 136	81.9 81.9	4.65 4.65	14.4 14.4	3 700 4 700	- -	2 400 2 400	4 400 4 400	6219
100 100	180 180	34 34	2.1 2.1	153 153	93.1 93.1	5.15 5.15	14.4 14.4	3 500 3 500	- -	2 300 2 300	4 200 4 200	6220
105	190	36	2.1	166	105	5.7	14.4	3 300	-	2 200	3 900	6221
120	215	40	2.1	194	131	6.65	14.4	2 900	-	1 900	3 400	6224



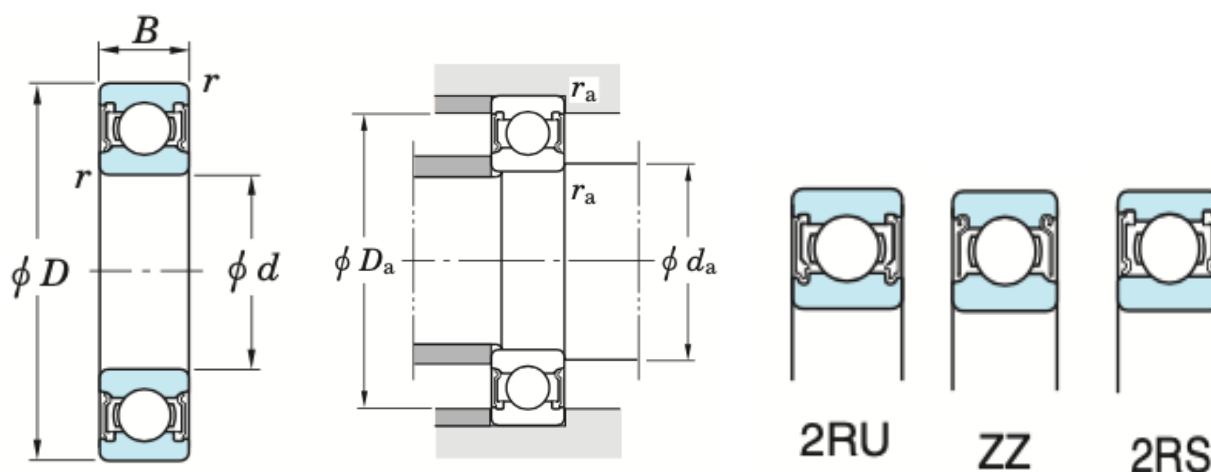
Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6215 ZZ 6215 ZZ	6215 2RU 6215 2RU	- -	6215 2RS 6215 2RS	83 83	88.5 88.5	122 122	1.5 1.5	1.18 1.18
6216 ZZ 6216 ZZ	6216 2RU 6216 2RU	- -	6216 2RS 6216 2RS	89 89	93 93	131 131	2 2	1.4 1.4
6217 ZZ 6217 ZZ	6217 2RU 6217 2RU	- -	6217 2RS 6217 2RS	94 94	102 102	141 141	2 2	1.79 1.79
6218 ZZ 6218 ZZ	6218 2RU 6218 2RU	- -	6218 2RS 6218 2RS	99 99	108.5 108.5	151 151	2 2	2.15 2.15
6219 ZZ 6219 ZZ	6219 2RU 6219 2RU	- -	6219 2RS 6219 2RS	106 106	113 113	159 159	2 2	2.62 2.62
6220 ZZ 6220 ZZ	6220 2RU 6220 2RU	- -	6220 2RS 6220 2RS	111 111	122 122	169 169	2 2	3.14 3.14
6221 ZZ	6221 2RU	-	6221 2RS	116	127	179	2	3.7
6224 ZZ	6224 2RU	-	6224 2RS	131	144	204	2	5.15

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

Deep Groove Ball Bearings

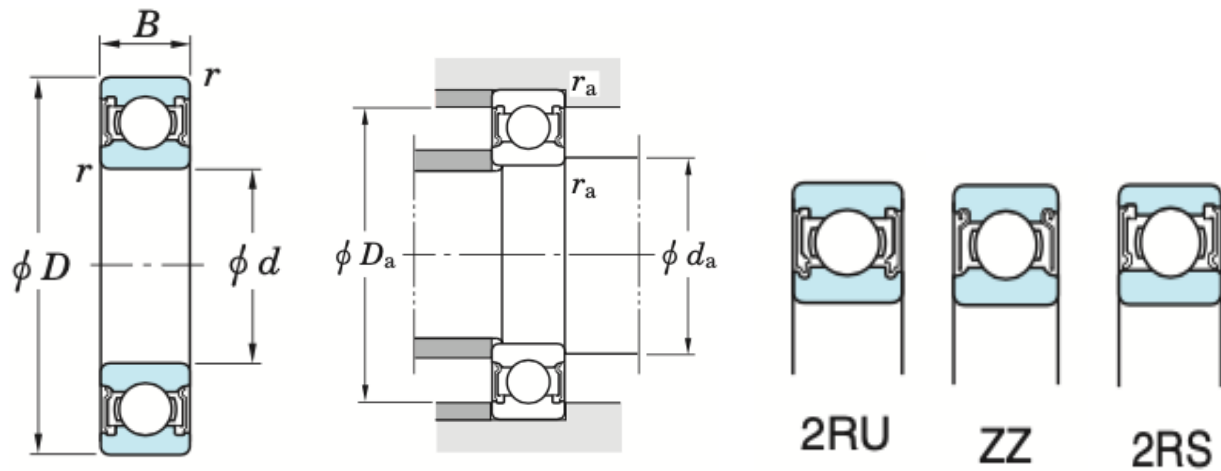
6300 Series

Koyo



Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD, 2RD)	(RS, 2RS)	(Z)	
10 10	35 35	11 11	0.6 0.6	10.1 10.1	3.45 3.45	0.27 0.27	11.2 11.2	22 000 22 000	20 000 20 000	16 000 16 000	27 000 27 000	6300*
12 12	37 37	12 12	1 1	12.1 12.1	4.2 4.2	0.42 0.42	11.1 11.1	20 000 20 000	18 000 18 000	15 000 15 000	25 000 25 000	6301*
15 15	42 42	13 13	1 1	14.3 14.3	5.45 5.45	0.46 0.46	12.3 12.3	17 000 17 000	15 000 15 000	12 000 12 000	20 000 20 000	6302*
17 17	47 47	14 14	1 1	17 17	6.65 6.65	0.55 0.55	12.4 12.4	15 000 15 000	14 000 14 000	10 000 10 000	18 000 18 000	6303*
20 20	52 52	15 15	1.1 1.1	19.9 19.9	7.85 7.85	0.66 0.66	12.3 12.3	14 000 14 000	13 000 13 000	9 500 9 500	17 000 17 000	6304
25 25	62 62	17 17	1.1 1.1	25.7 25.7	11.3 11.3	0.86 0.86	13.2 13.2	11 000 11 000	9 900 9 900	7 500 7 500	13 000 13 000	6305
30 30	72 72	19 19	1.1 1.1	33.3 33.3	15 15	1.15 1.15	13.3 13.3	9 600 9 600	8 600 8 600	6 400 6 400	12 000 12 000	6306
35 35	80 80	21 21	1.5 1.5	41.7 41.7	19.3 19.3	1.45 1.45	13.2 13.2	8 500 8 500	7 700 7 700	5 700 5 700	10 000 10 000	6307
40 40	90 90	23 23	1.5 1.5	50.9 50.9	24 24	1.85 1.85	13.2 13.2	7 700 7 700	6 900 6 900	5 100 5 100	9 200 9 200	6308
45 45	100 100	25 25	1.5 1.5	61.1 61.1	29.5 29.5	2.25 2.25	13.3 13.3	6 800 6 800	6 100 6 100	4 500 4 500	8 100 8 100	6309
50 50	110 110	27 27	2 2	77.5 77.5	38.3 38.3	2.9 2.9	13.2 13.2	6 100 6 100	5 500 5 500	4 100 4 100	7 300 7 300	6310
55 55	120 120	29 29	2 2	89.5 89.5	45 45	3.45 3.45	13.2 13.2	5 600 5 600	- -	3 700 3 700	6 700 6 700	6311

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.



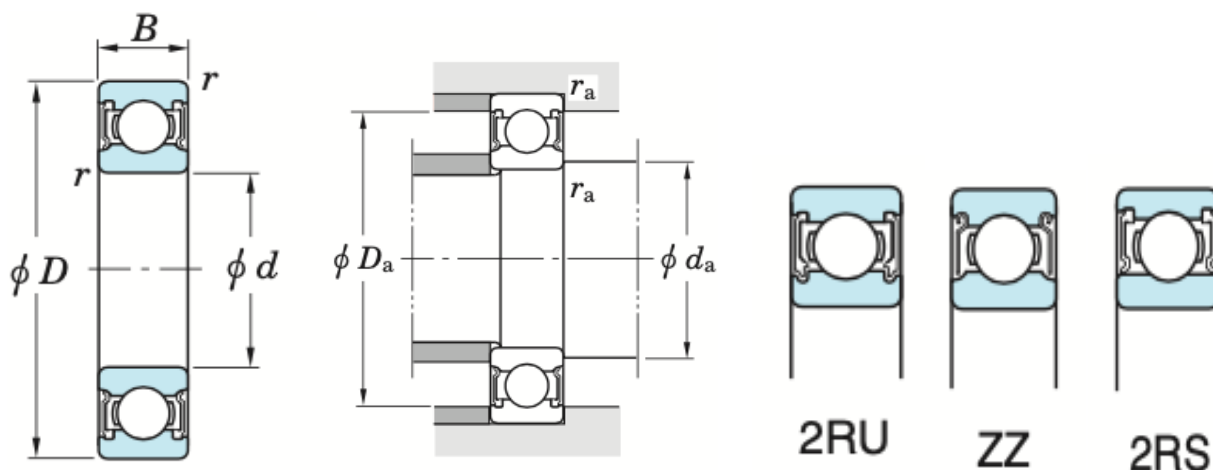
Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6300 ZZ 6300 ZZ	6300 2RU 6300 2RU	6300 2RD* 6300 2RD*	6300 2RS 6300 2RS	14 14	16 16	31 31	0.6 0.6	0.053 0.053
6301 ZZ 6301 ZZ	6301 2RU 6301 2RU	6301 2RD* 6301 2RD*	6301 2RS 6301 2RS	17 17	17.5 17.5	32 32	1 1	0.06 0.06
6302 ZZ 6302 ZZ	6302 2RU 6302 2RU	6302 2RD* 6302 2RD*	6302 2RS 6302 2RS	20 20	21.5 21.5	37 37	1 1	0.082 0.082
6303 ZZ 6303 ZZ	6303 2RU 6303 2RU	6303 2RD* 6303 2RD*	6303 2RS 6303 2RS	22 22	24.3 24.3	42 42	1 1	0.115 0.115
6304 ZZ 6304 ZZ	6304 2RU 6304 2RU	6304 2RD* 6304 2RD*	6304 2RS 6304 2RS	26.5 26.5	27 27	45.5 45.5	1 1	0.144 0.144
6305 ZZ 6305 ZZ	6305 2RU 6305 2RU	6305 2RD* 6305 2RD*	6305 2RS 6305 2RS	31.5 31.5	34 34	55.5 55.5	1 1	0.232 0.232
6306 ZZ 6306 ZZ	6306 2RU 6306 2RU	6306 2RD* 6306 2RD*	6306 2RS 6306 2RS	36.5 36.5	40 40	65.5 65.5	1 1	0.346 0.346
6307 ZZ 6307 ZZ	6307 2RU 6307 2RU	6307 2RD* 6307 2RD*	6307 2RS 6307 2RS	43 43	46 46	72 72	1.5 1.5	0.457 0.457
6308 ZZ 6308 ZZ	6308 2RU 6308 2RU	6308 2RD* 6308 2RD*	6308 2RS 6308 2RS	48 48	51.5 51.5	82 82	1.5 1.5	0.633 0.633
6309 ZZ 6309 ZZ	6309 2RU 6309 2RU	6309 2RD* 6309 2RD*	6309 2RS 6309 2RS	53 53	59.5 59.5	92 92	1.5 1.5	0.833 0.833
6310 ZZ 6310 ZZ	6310 2RU 6310 2RU	6310 2RD* 6310 2RD*	6310 2RS 6310 2RS	59 59	66.5 66.5	101 101	2 2	1.07 1.07
6311 ZZ 6311 ZZ	6311 2RU 6311 2RU	- -	6311 2RS 6311 2RS	64 64	74.5 74.5	111 111	2 2	1.37 1.37

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

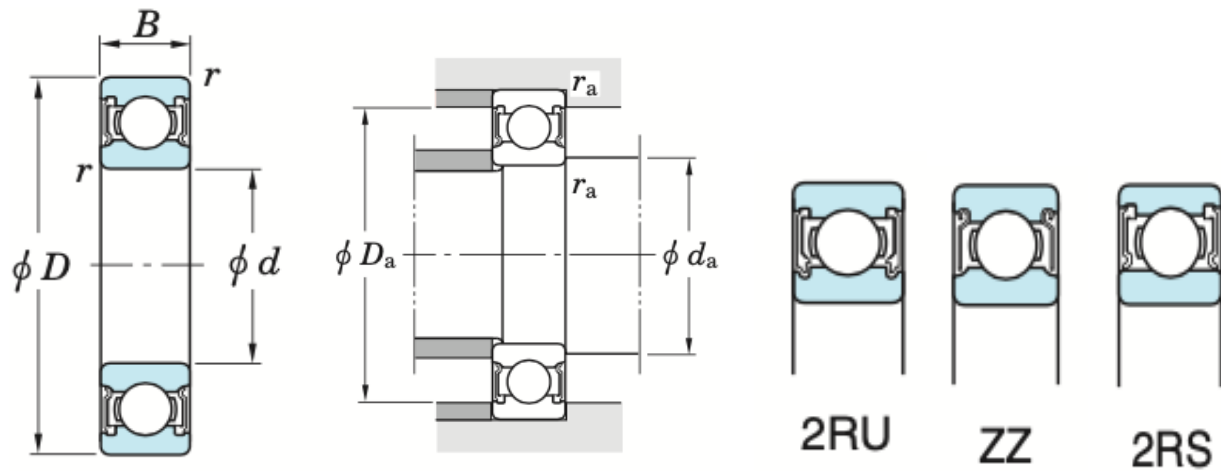
Deep Groove Ball Bearings

6300 Series

Koyo



Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds			Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub	Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RS, 2RS)	(Z)	
60 60	130 130	31 31	2.1 2.1	102 102	52.2 52.2	3.95 3.95	13.2 13.2	5 200 5 200	3 500 3 500	6 200 6 200	6312
65 65	140 140	33 33	2.1 2.1	116 116	59.9 59.9	4.5 4.5	13.2 13.2	4 800 4 800	3 200 3 200	5 800 5 800	6313
70 70	150 150	35 35	2.1 2.1	130 130	68.2 68.2	4.95 4.95	13.2 13.2	4 500 4 500	3 000 3 000	5 400 5 400	6314
75 75	160 160	37 37	2.1 2.1	142 142	77.2 77.2	5.4 5.4	13.2 13.2	4 200 4 200	2 800 2 800	5 000 5 000	6315
80 80	170 170	39 39	2.1 2.1	154 154	86.7 86.7	5.85 5.85	13.3 13.3	3 900 3 900	2 700 2 700	4 700 4 700	6316
85 85	180 180	41 41	3 3	166 166	96.8 96.8	6.35 6.35	13.3 13.3	3 700 3 700	2 500 2 500	4 400 4 400	6317
90 90	190 190	43 43	3 3	178 178	107 107	8.8 8.8	13.3 13.3	3 500 3 500	2 400 2 400	4 200 4 200	6318
95	200	45	3	191	119	9.45	13.3	3 300	2 200	4 000	6319
100	215	47	3	216	141	10.9	13.2	3 000	2 100	3 600	6320
110	240	50	3	257	180	13.3	13.2	2 700	3 200	-	6322

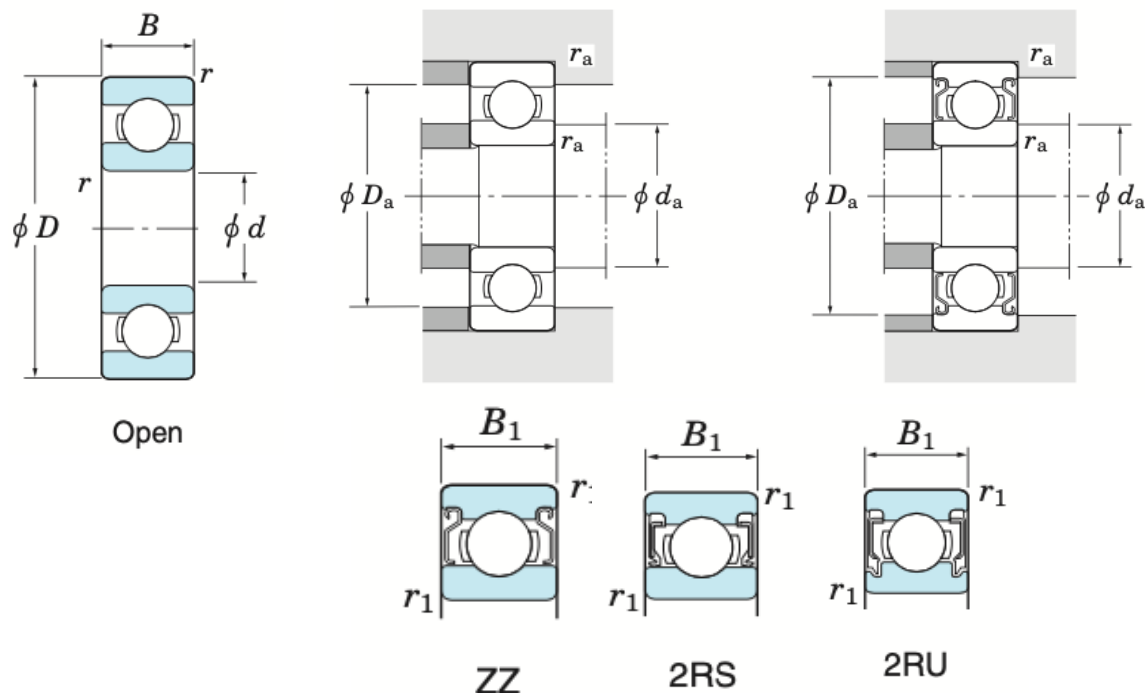


Bearing No.			Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Contact Sealed	da		Da	ra	
			Min	Max	Max	Max	
6312 ZZ	6312 2RU	6312 2RS	71	80	119	2	1.7
6312 ZZ	6312 2RU	6312 2RS	71	80	119	2	1.7
6313 ZZ	6313 2RU	6313 2RS	76	86	129	2	2.08
6313 ZZ	6313 2RU	6313 2RS	76	86	129	2	2.08
6314 ZZ	6314 2RU	6314 2RS	81	92	139	2	2.52
6314 ZZ	6314 2RU	6314 2RS	81	92	139	2	2.52
6315 ZZ	6315 2RU	6315 2RS	86	97.5	149	2	3.02
6315 ZZ	6315 2RU	6315 2RS	86	97.5	149	2	3.02
6316 ZZ	6316 2RU	6316 2RS	91	105	159	2	3.59
6316 ZZ	6316 2RU	6316 2RS	91	105	159	2	3.59
6317 ZZX	6317 2RU	6317 2RS	98	111	167	2.5	4.23
6317 ZZX	6317 2RU	6317 2RS	98	111	167	2.5	4.23
6318 ZZX	6318 2RU	6318 2RS	103	117	177	2.5	4.91
6318 ZZX	6318 2RU	6318 2RS	103	117	177	2.5	4.91
6319 ZZX	6319 2RU	6319 2RS	108	122	187	2.5	5.67
6320 ZZX	6320 2RU	6320 2RS	113	131	202	2.5	7
6322	-	-	123	-	247	2.5	12.5

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

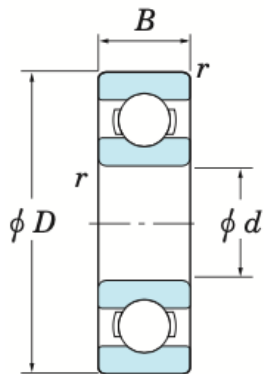
Deep Groove Ball Bearings Minature Series

Koyo

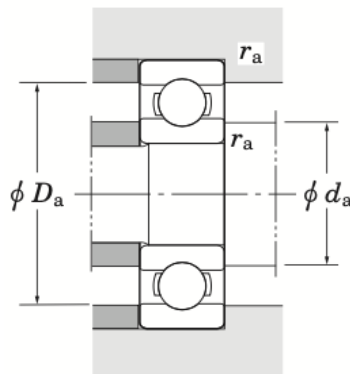


Boundary dimitions (mm)						Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	B1	r (min)	r1 (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
										(Z, ZZ, RU, 2RU)	(RD, 2RD)	(RS, 2RS)	(Z)	
4	12	4	4	0.2	0.2	1.2	0.35	0.009	12.4	53 000	-	-	63 000	604
6	17	6	6	0.3	0.3	2.45	0.74	0.03	12.2	43 000	39 000	-	51 000	606
7	19	6	6	0.3	0.3	2.95	0.89	0.04	12.3	40 000	36 000	27 000	47 000	607
8	22	7	7	0.3	0.3	4.1	1.35	0.06	12.4	34 000	31 000	23 000	41 000	608
9	24	7	7	0.3	0.3	4.15	1.4	0.06	12.8	33 000	30 000	22 000	40 000	609
4	12	4	4	0.2	0.2	1.2	0.35	0.009	12.4	53 000	-	-	63 000	624
5	16	5	5	0.3	0.3	2.15	0.67	0.03	12.4	40 000	36 000	33 000	49 000	625
6	19	6	6	0.3	0.3	2.9	0.89	0.04	12.3	35 000	32 000	27 000	43 000	626
6	19	6	6	0.3	0.3	2.9	0.89	0.04	12.3	35 000	32 000	27 000	43 000	626
8	24	8	8	0.3	0.3	4.15	1.4	0.06	12.8	28 000	-	22 000	35 000	628
9	26	8	8	0.6	0.6	5.7	1.95	0.1	12.4	27 000	24 000	19 000	33 000	629
5	19	6	6	0.3	0.3	2.9	0.89	0.04	12.3	35 000	32 000	27 000	43 000	635
6	22	7	7	0.3	0.3	4.1	1.35	0.06	12.4	31 000	-	23 000	37 000	636
8	28	9	9	0.3	0.3	5.65	1.95	0.1	12.3	26 000	23 000	-	32 000	638

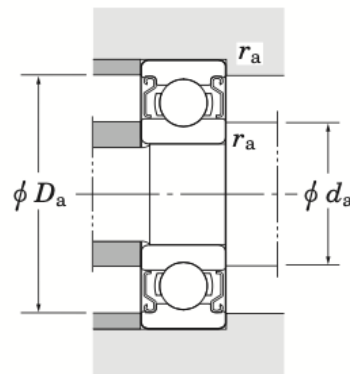
Every effort has been taken to ensure that the data listed in this catalogue is correct.
Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.



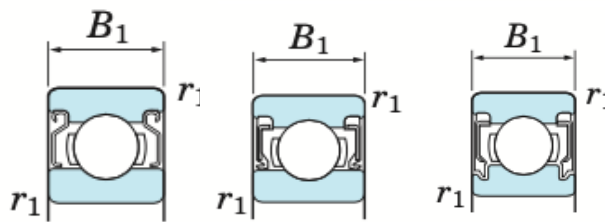
Open



ZZ



2RS



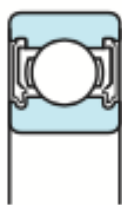
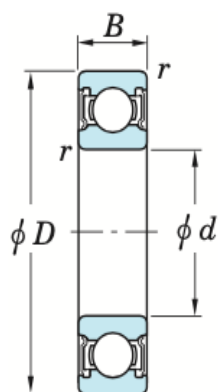
2RU

Bearing No.					Mounting Dimensions			Mass Open Type (Kg)
Open	Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da	Da	ra	
					Min	Max	Max	
604	604 ZZ	-	-	-	5.6	10.4	0.2	2.1
606	606 ZZ	606 2RU	606 2RD*	-	8	15	0.3	5.8
607	607 ZZ	607 2RU	607 2RD*	607 2RS	9	17	0.3	7.6
608	608 ZZ	608 2RU	608 2RD*	608 2RS	10	20	0.3	12
609	609 ZZ	609 2RU	609 2RD*	609 2RS	11	22	0.3	15
624	624 ZZ	624 2RU	-	624 2RS	5.6	11.4	0.2	2.9
625	625 ZZ	625 2RU	-	625 2RS	7	14	0.3	5
626	626 ZZ	626 2RU	626 2RD*	626 2RS	8	17	0.3	8.1
626	626 ZZ	626 2RU	626 2RD*	626 2RS	8	17	0.3	8.1
628	628 ZZ	628 2RU	-	628 2RS	10	22	0.3	18
629	629 ZZ	629 2RU	629 2RD*	629 2RS	12.1	22	0.3	20
635	635 ZZ	635 2RU	-	635 2RS	7	17	0.3	8.5
636	636 ZZ	-	-	636 2RS	8	20	0.3	13
638	638 ZZ	-	638 2RD*	-	10	26	0.3	29

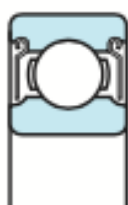
*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

Deep Groove Ball Bearings 6800 Series

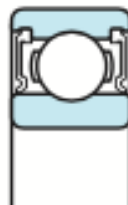
Koyo



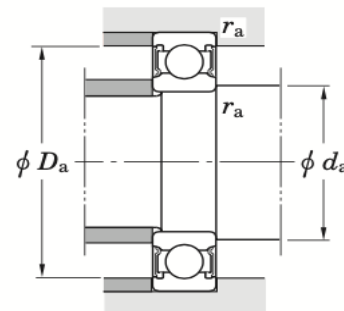
2RU



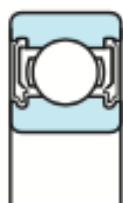
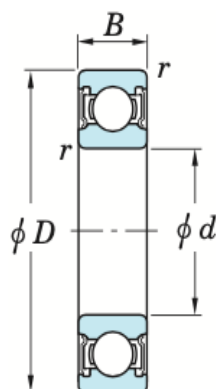
ZZ



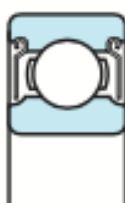
2RS



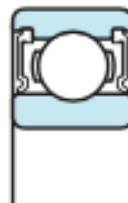
Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD, 2RD)	(RS, 2RS)	(Z)	
45	58	7	0.3	7.75	5.4	0.23	16.3	11 000	9 900	5 900	13 000	6809
50	65	7	0.3	8.2	6.1	0.26	16.1	9 600	8 600	5 200	11 000	6810
55	72	9	0.3	11	8.1	0.42	16.2	8 700	7 800	-	10 000	6811
60	78	10	0.3	14.3	10.6	0.55	16.3	8 000	7 200	-	9 400	6812
65	85	10	0.6	14.9	11.5	0.59	16.2	7 300	6 600	-	8 600	6813
70	90	10	0.6	15.1	11.9	0.62	16.1	6 800	6 100	-	8 100	6814
75	95	10	0.6	15.7	12.9	0.66	16	6 400	5 800	-	7 600	6815
80	100	10	0.6	15.9	13.3	0.69	16	6 100	5 500	-	7 200	6816
85	110	13	1	23.4	19	0.98	16.2	5 600	5 000	-	6 600	6817
90	115	13	1	23.8	19.7	1	16.1	5 300	4 800	-	6 300	6818
100	125	13	1	24.5	21.2	1.05	16	4 800	4 300	-	5 700	6822
110	140	16	1	35.1	30.7	1.4	16.1	4 300	3 900	-	5 100	6824



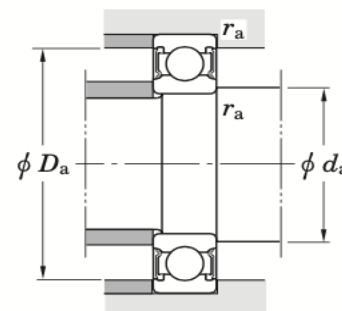
2RU



ZZ



2RS



Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6809 ZZ	6809 2RU	6809 2RD*	6809 2RS	47	47	56	0.3	0.04
6810 ZZ	6810 2RU	6810 2RD*	6810 2RS	52	53	63	0.3	0.052
6811 ZZ	6811 2RU	6811 2RD*	-	57	58.5	70	0.3	0.083
6812 ZZ	6812 2RU	6812 2RD*	-	62	63	76	0.3	0.104
6813 ZZ	6813 2RU	6813 2RD*	-	69	69	81	0.6	0.126
6814 ZZ	6814 2RU	6814 2RD*	-	74	74	86	0.6	0.134
6815 ZZ	6815 2RU	6815 2RD*	-	79	79	91	0.6	0.142
6816 ZZ	6816 2RU	6816 2RD*	-	84	84	96	0.6	0.15
6817 ZZ	6817 2RU	6817 2RD*	-	90	90.5	105	1	0.266
6818 ZZ	6818 2RU	6818 2RD*	-	95	95.5	110	1	0.279
6820 ZZ	6820 2RU	6820 2RD*	-	105	105.5	120	1	0.309
6822 ZZ	6822 2RU	6822 2RD*	-	115	116.5	135	1	0.606

Also Stocking:

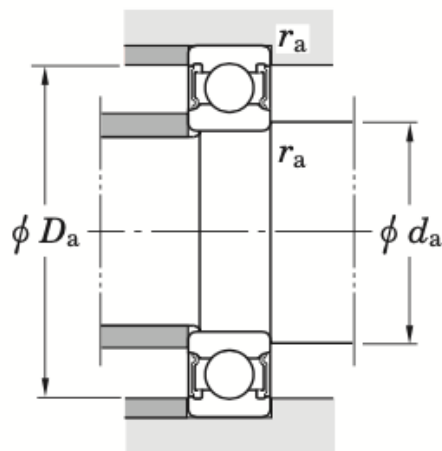
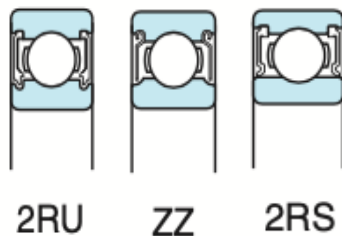
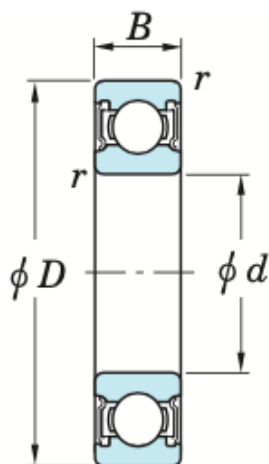
6400 ZZ Series	6400 Open Series	6400 NR Series
6403-ZZ	6409C3	6413NRC3
6404-ZZ	6411C3	-
6405-ZZ	6413C3	-
6406-ZZ	-	-
6407-ZZ	-	-
6408-ZZ	-	-
6409-ZZ	-	-
6410-ZZ	-	-

Also Stocking:

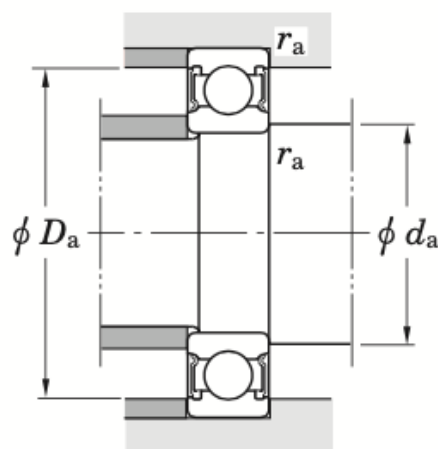
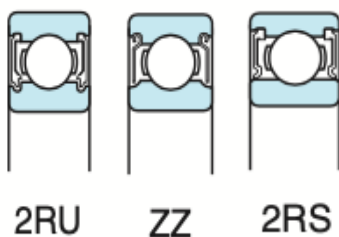
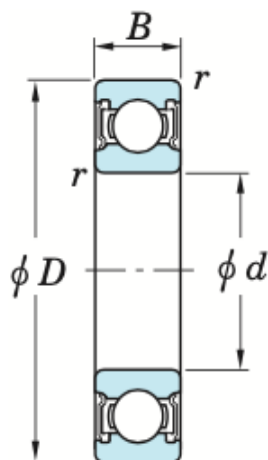
60/2RS Series	60/C3 Series	60/ NR Series	60/C4 Series
60/22-2RS	60/22C3	-	-
60/28-2RS	60/28C3	-	-
62/22-2RS	62/22C3	62/22NR	-
62/28-2RS	62/28C3	62/28NRC3	-
62/32-2RS	62/32C3	-	62/32C4
63/22-2RK	63/22C3	63/22NRC3	63/22C4
63/28-2RS	63/28C3	63/28NRC3	-
63/32-2RS	63/32C3	63/32NRC3	63/32C4

Deep Groove Ball Bearings 6900 Series

Koyo



Boundary dimitions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds				Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub		Oil Lub		Size Reference
								(Z, ZZ, RU, 2RU)	(RD,2RD)	(RS,2RS)	(Z)	
55	80	13	1	20.8	14.1	0.76	16.2	8 100	7 300	4 500	9 600	6911
60	85	13	1	25.2	17.3	0.94	16.2	7 500	-	-	8 900	6912
65	90	13	1	21.7	16.1	0.83	16.6	7 100	6 400	3 900	8 400	6913
70	100	16	1	29.7	21.2	1.1	16.3	6 400	5 800	3 600	7 600	6914
80	110	16	1	31.2	24	1.25	16.6	5 700	5 100	3 200	6 800	6916
85	120	18	1.1	39.9	29.6	1.55	16.4	5 300	4 800	3 000	6 300	6917
90	125	18	1.1	41	31.6	1.6	16.5	5 100	4 600	2 800	6 000	6918
100	140	20	1.1	51.5	39.6	1.9	16.2	4 500	-	-	5 300	6920
110	150	20	1.1	59.9	47.8	2.2	16.4	4 100	-	-	4 900	6922
120	165	22	1.1	71.6	56.9	2.5	16.4	3 800	-	-	4 400	6924



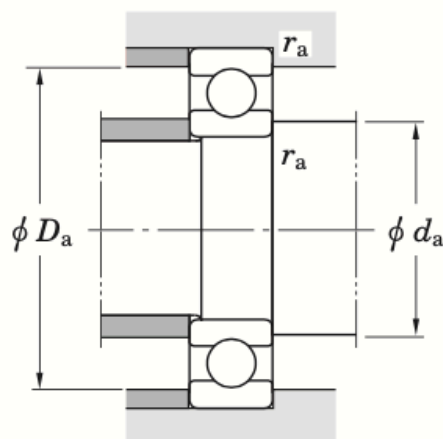
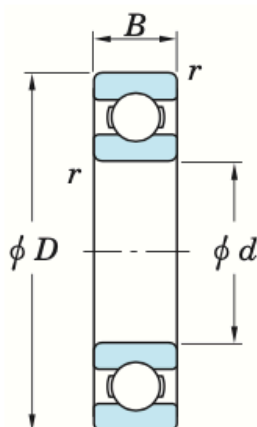
Bearing No.				Mounting Dimensions				Mass Open Type (Kg)
Shielded	Non Contact Sealed	Extremely Light Contact Sealed	Contact Sealed	da		Da	ra	
				Min	Max	Max	Max	
6911 ZZ	6911 2RU	6911 2RD*	6911 2RS	60	60.5	75	1	0.185
6912 ZZ	6912 2R	-	-	65	66	80	1	0.192
6913 ZZ	6913 2RU	6913 2RD*	6913 2RS	70	71	85	1	0.211
6914 ZZ	6914 2RU	6914 2RD*	6914 2RS	75	76.5	95	1	0.342
6916 ZZ	6916 2RU	6916 2RD*	6916 2RS	85	86.5	105	1	0.382
6917 ZZ	6917 2RU	6917 2RD*	6917 2RS	91.5	92.5	113.5	1	0.535
6918 ZZ	6918 2RU	6918 2RD*	6918 2RS	96.5	97.5	118.5	1	0.565
6920-1 ZZ	6920-1 2RU	-	-	106.5	110.5	133.5	1	0.96
6922 ZZ	6922 2RU	-	-	116.5	119.5	143.5	1	1.04
6924 ZZ	6924 2RU	-	-	126.5	131.5	158.5	1	1.41

*NB. These sizes are not stocked although can be ordered from overseas manufacturer on request.

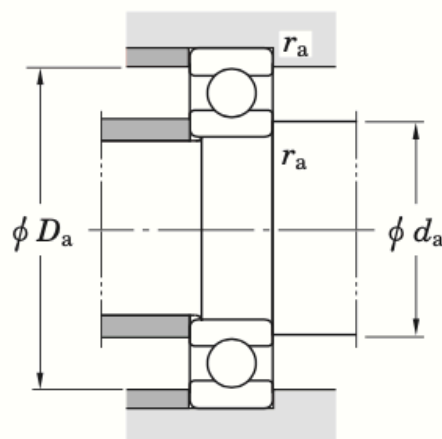
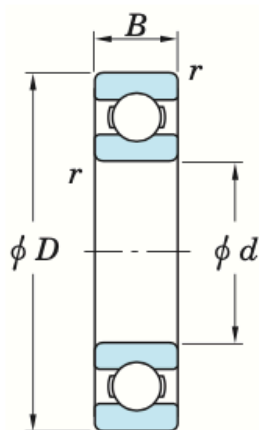
Deep Groove Ball Bearings

16000 Series

Koyo



Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Factor	Limiting Speeds		Bearing No.
d	D	B	r (min)	Cr	Cor	Cu	Fo	Grease Lub	Oil Lub	Size Reference
15	32	8	0.3	7	2.85	0.15	13.9	23 000	28 000	16002
17	35	8	0.3	7.5	3.25	0.17	14.4	21 000	25 000	16003
20	42	8	0.3	9.9	4.5	0.29	14.4	17 000	21 000	16004
25	47	8	0.3	11.1	5.6	0.34	15.1	15 000	18 000	16005
30	55	9	0.3	14.1	7.35	0.44	15.2	13 000	15 000	16006
35	62	9	0.3	15.3	8.85	0.5	15.7	11 000	13 000	16007
40	68	9	0.3	15.8	9.65	0.53	16	9 800	12 000	16008
45	75	10	0.6	19.4	12.3	0.67	16	8 900	10 000	16009
50	80	10	0.6	20	13.3	0.71	16.2	8 200	9 700	16010
55	90	11	0.6	24.2	16.3	0.88	16.2	7 400	8 800	16011
60	95	11	0.6	24.8	17.6	0.93	16.4	6 900	8 100	16012
65	100	11	0.6	21.4	16	0.83	16.5	6 600	7 800	16013
70	110	13	0.6	37.6	25.6	1.4	16	6 100	7 200	16014
75	115	13	0.6	34.4	25.3	1.35	16.4	5 700	6 700	16015
80	125	14	0.6	39.7	29.7	1.5	16.4	5 200	6 100	16016
85	130	14	0.6	40.8	31.7	1.55	16.5	4 900	5 800	16017
90	140	16	1	49.9	37	1.85	16.3	4 700	5 600	16018
95	145	16	1	51.5	39.6	1.9	16.4	4 500	5 300	16019
100	150	16	1	53	42.1	1.95	16.5	4 300	5 100	16020
105	160	18	1	52.3	42.2	1.9	16.5	4 100	4 800	16021
110	170	19	1	71.8	56.7	2.55	16.3	3 800	4 500	16022
120	180	19	1	79	63.3	2.75	16.4	3 600	4 200	16024
130	200	22	1.1	89.1	74.8	3.05	11.2	3 000	3 600	16026

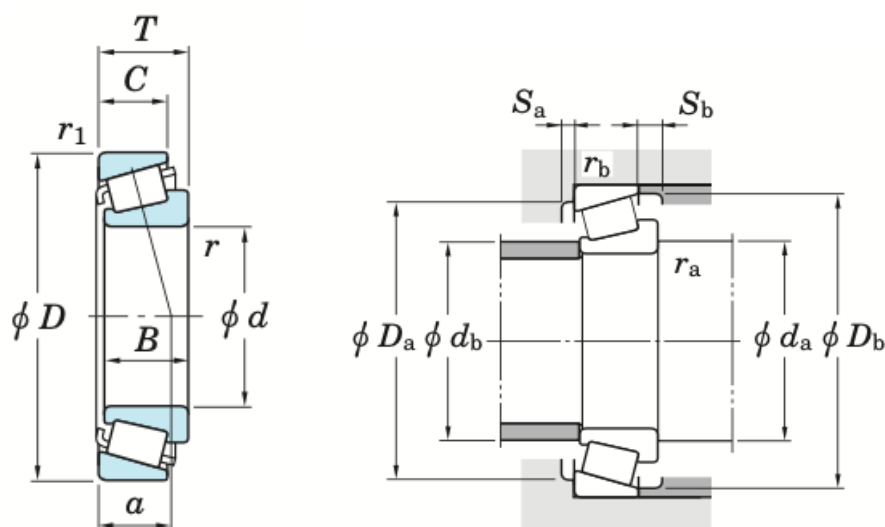


Bearing No.	Mounting Dimensions			Mass Open Type (Kg)
	da (min)	Da (max)	ra (max)	
16002	17	30	0.3	0.025
16003	19	33	0.3	0.032
16004	22	40	0.3	0.05
16005	27	45	0.3	0.06
16006	32	53	0.3	0.085
16007	37	60	0.3	0.11
16008	42	66	0.3	0.125
16009	49	71	0.6	0.17
16010	54	76	0.6	0.18
16011	59	86	0.6	0.26
16012	64	91	0.6	0.28
16013	69	96	0.6	0.3
16014	74	106	0.6	0.433
16015	79	111	0.6	0.457
16016	84	121	0.6	0.597
16017	89	126	0.6	0.626
16018	95	135	1	0.848
16019	100	140	1	0.885
16020	105	145	1	0.91
16021	110	155	1	1.2
16022	115	165	1	1.46
16024	125	175	1	1.8
16026	136.5	193.5	1	2.69

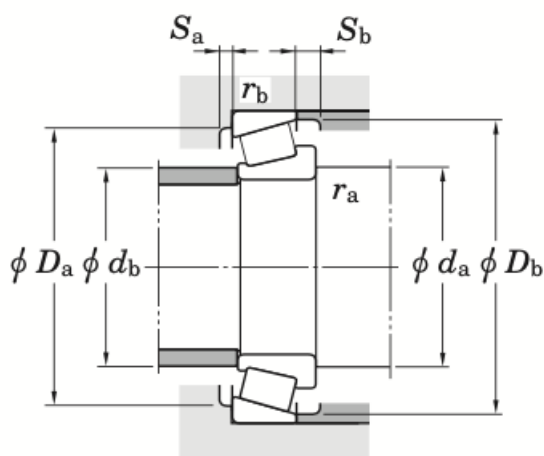
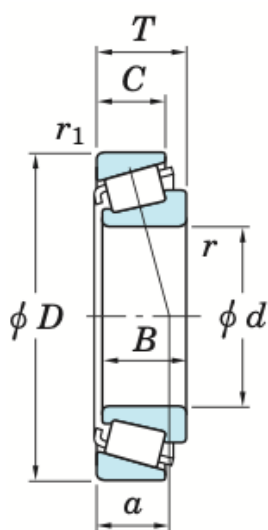
Tapered Roller Bearings

30200 - 30220 Series

Koyo



Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
17	40	13.25	12	11	1	1	26	20.7	2.85	10 000	14 000	30203JR
20	47	15.25	14	12	1	1	33.8	27.2	3.8	8 700	12 000	30204JR
25	52	16.25	15	13	1	1	39.3	33.7	4.75	7 800	10 000	30205JR
30	62	17.25	16	14	1	1	51.8	44.8	6.45	6 500	8 700	30206JR
35	72	18.25	17	15	1.5	1.5	68.8	60.9	8.95	5 600	7 400	30207JR
40	80	19.75	18	16	1.5	1.5	78.4	69.2	10.3	5 000	6 700	30208JR
45	85	20.75	19	16	1.5	1.5	83.9	77.4	11.6	4 600	6 100	30209JR
50	90	21.75	20	17	1.5	1.5	95.6	91.7	13.8	4 300	5 700	30210JR
55	100	22.75	21	18	2	1.5	118	113	17.3	3 900	5 200	30211JR
60	110	23.75	22	19	2	1.5	133	127	19.7	3 500	4 700	30212JR
65	140	36	33	28	3	2.5	255	239	37.6	2 800	3 800	30313JR
70	125	26.25	24	21	2	1.5	173	173	27.1	3 100	4 100	30214JR
75	130	27.25	25	22	2	1.5	178	181	28.2	2 900	3 900	30215JR
80	140	28.25	26	22	2.5	2	202	202	31.2	2 700	3 600	30216JR
85	150	30.5	28	24	2.5	2	228	231	35.1	2 500	3 400	30217JR
90	160	32.5	30	26	2.5	2	255	261	39	2 400	3 200	30218JR
95	170	34.5	32	27	3	2.5	289	299	44	2 200	3 000	30219JR
100	180	37	34	29	3	2.5	323	338	49.1	2 100	2 800	30220JR
105	190	39	36	30	3	2.5	360	380	52.3	2 000	2 600	30221JR

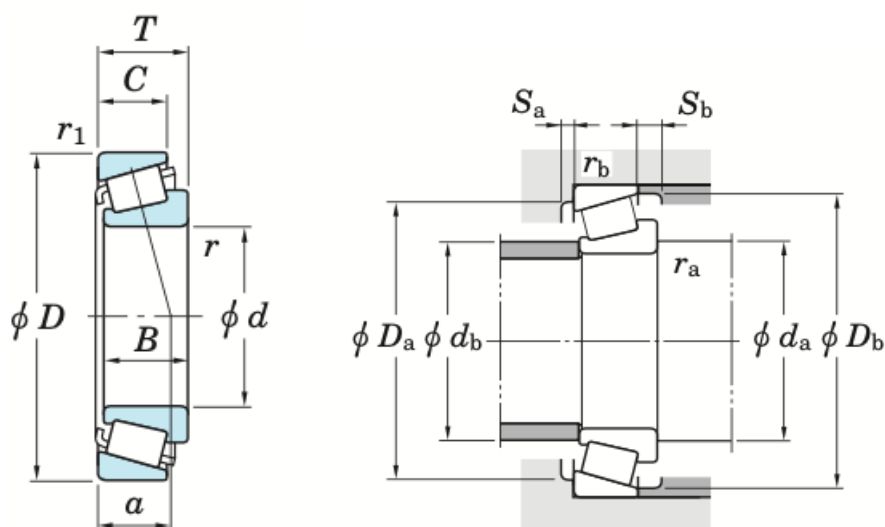


Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No.
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2DB	10.1	22.5	23	34.5	33	37	2	30203JR
2DB	11.8	25.5	27	41.5	39	44	2	30204JR
3CC	12.9	30.5	31	46.5	44	48	2	30205JR
3DB	14.1	35.5	37	56.5	53	57	2	30206JR
3DB	15.3	43.5	44	63.5	62	67	3	30207JR
3DB	17	48.5	49	71.5	69	75	3	30208JR
3DB	18.9	53.5	54	76.5	74	80	3	30209JR
3DB	20.1	58.5	58	81.5	79	85	3	30210JR
3DB	20.7	65	64	90	88	94	4	30211JR
3EB	21.9	70	70	100	96	103	4	30212JR
2GB	29.3	79	83	128	122	130	4	30313JR
3EB	25.9	80	81	116.5	110	118	4	30214JR
4DB	27.6	85	86	121.5	115	124	4	30215JR
3EB	28.6	92	91	130	124	132	4	30216JR
3EB	30.4	97	97	140	132	141	5	30217JR
3FB	32.6	102	103	150	140	150	5	30218JR
3FB	34.9	109	110	158	149	159	5	30219JR
3FB	36.8	114	116	168	157	168	5	30220JR
3FB	39	119	122	178	165	178	6	30221JR

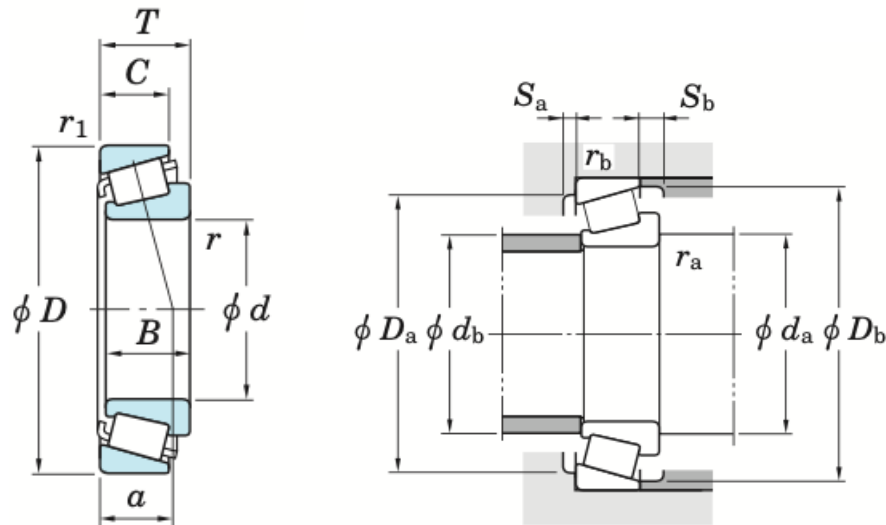
Tapered Roller Bearings

30200 - 30220 Series

Koyo



Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No.
Sb	ra	rb		Y1	Y0	Kg	
min	max	max	e				
2	1	1	0.35	1.74	0.96	0.081	30203JR
3	1	1	0.35	1.74	0.96	0.127	30204JR
3	1	1	0.37	1.6	0.88	0.156	30205JR
3	1	1	0.37	1.6	0.88	0.236	30206JR
3	1.5	1.5	0.37	1.6	0.88	0.344	30207JR
3.5	1.5	1.5	0.37	1.6	0.88	0.434	30208JR
4.5	1.5	1.5	0.4	1.48	0.81	0.502	30209JR
4.5	1.5	1.5	0.42	1.43	0.79	0.566	30210JR
4.5	2	1.5	0.4	1.48	0.81	0.732	30211JR
4.5	2	1.5	0.4	1.48	0.81	0.945	30212JR
8	2.5	2	0.35	1.74	0.96	2.56	30313JR
5	2	1.5	0.42	1.43	0.79	1.32	30214JR
5	2	1.5	0.44	1.38	0.76	1.42	30215JR
6	2	2	0.42	1.43	0.79	1.72	30216JR
6.5	2	2	0.42	1.43	0.79	2.17	30217JR
6.5	2	2	0.42	1.43	0.79	2.65	30218JR
7.5	2.5	2	0.42	1.43	0.79	3.2	30219JR
8	2.5	2	0.42	1.43	0.79	3.83	30220JR
9	2.5	2	0.42	1.43	0.79	4.49	30221JR

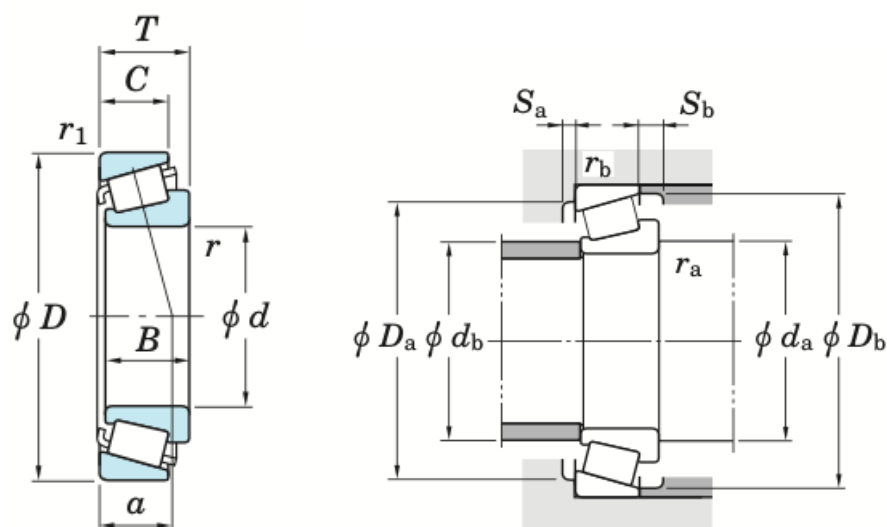


Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
15	42	14.25	13	11	1	1	27.4	19.2	2.65	10 000	14 000	30302JR
17	47	15.25	14	12	1	1	34.2	24.5	3.45	9 200	12 000	30303JR
17	47	15.25	14	12	1	1	34.2	24.5	3.45	9 200	12 000	30303JR
20	52	16.25	16	13	1.5	1.5	45.3	35.1	5.05	8 300	11 000	30304AJR
25	62	18.25	17	15	1.5	1.5	60.3	46.9	6.9	6 800	9 000	30305JR
25	62	18.25	17	13	1.5	1.5	49.7	42.5	5.80	5 700	8 000	30305DJR
30	72	20.75	19	16	1.5	1.5	74.4	60.1	9	5 800	7 700	30306JR
30	72	20.75	19	14	1.5	1.5	63.5	54.9	7.70	4 900	6 800	30306DJR
35	80	22.75	21	15	2	1.5	78.7	69.1	9.85	4 300	6 000	30307DJR
35	80	22.75	21	15	2	1.5	78.7	69.1	9.85	4 300	6 000	30307DJR
40	90	25.25	23	20	2	1.5	113	101	15.5	4 500	6 100	30308JR
40	90	25.25	23	17	2	1.5	100	90.2	13.1	3 800	5 300	30308DJR
45	100	27.25	25	22	2	1.5	141	128	19.9	4 100	5 400	30309JR
45	100	27.25	25	18	2	1.5	119	107	15.8	3 400	4 700	30309DJR
50	110	29.25	27	23	2.5	2	172	152	24	3 700	4 900	30310JR
50	110	29.25	27	19	2.5	2	144	133	19.8	3 100	4 300	30310DJR
55	120	31.5	29	21	2.5	2	161	148	22.3	2 900	4 000	30311JR
55	120	31.5	29	21	2.5	2	161	148	22.3	2 900	4 000	30311DJR
60	130	33.5	31	22	3	2.5	191	179	27.1	2 600	3 700	30312JR
60	130	33.5	31	22	3	2.5	191	179	27.1	2 600	3 700	30312DJR
65	140	36	33	23	3	2.5	220	209	31.4	2 400	3 400	30313DJR
65	140	36	33	23	3	2.5	220	209	31.4	2 400	3 400	30313DJR
70	150	38	35	25	3	2.5	246	235	34.9	2 300	3 200	30314JR
70	150	38	35	25	3	2.5	246	235	34.9	2 300	3 200	30314DJR

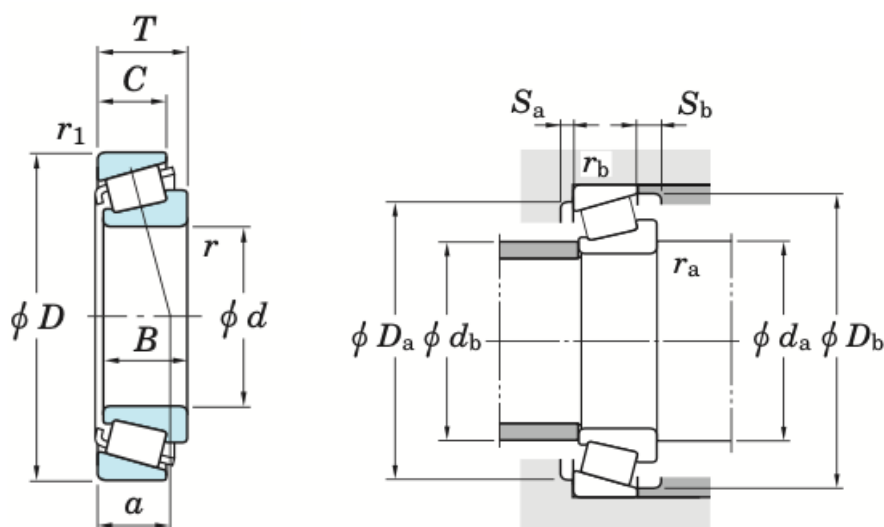
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2FB	10	20.5	22	36.5	35	38	2	30302JR
2FB	11	22.5	25	41.5	40	42	2	30303JR
2FB	11	22.5	25	41.5	40	42	2	30303JR
-	11.1	28.5	28	44	44	47	2	30304AJR
2FB 7FB	12.9 204.	33.5 33.5	34 34	54 53.5	54 47	57 58.5	2 3	30305JR 30305DJR
2FB 7FB	15.7 23.7	38.5 38.5	40 40	63.5 63.5	62 55	66 68	3 3	30306JR 30306DJR
7FB 7FB	26.8 26.8	45 45	44 44	70 70	66 66	76.5 76.5	3 3	30307DJR 30307DJR
2FB 7FB	19.9 29.9	50 50	52 51	80 80	77 71	82 86.5	3 3	30308JR 30308DJR
2FB 7FB	21.3 32.9	55 55	59 56	90 90	86 79	93 96	3 3	30309JR 30309DJR
2FB 7FB	22.9 35.0	62 62	65 62	98 98	95 87	102 105	3 3	30310JR 30310DJR
7FB 7FB	38.4 38.4	67 67	68 68	108 108	94 94	113 113	4 4	30311JR 30311DJR
7FB 7FB	40.8 40.8	74 74	73 73	118 118	103 103	124 124	4 4	30312JR 30312DJR
7GB 7GB	44.3 44.3	79 79	79 79	128 128	111 111	133 133	4 4	30313DJR 30313DJR
7GB 7GB	47.1 47.1	84 84	84 84	138 138	118 118	142 142	4 4	30314JR 30314DJR

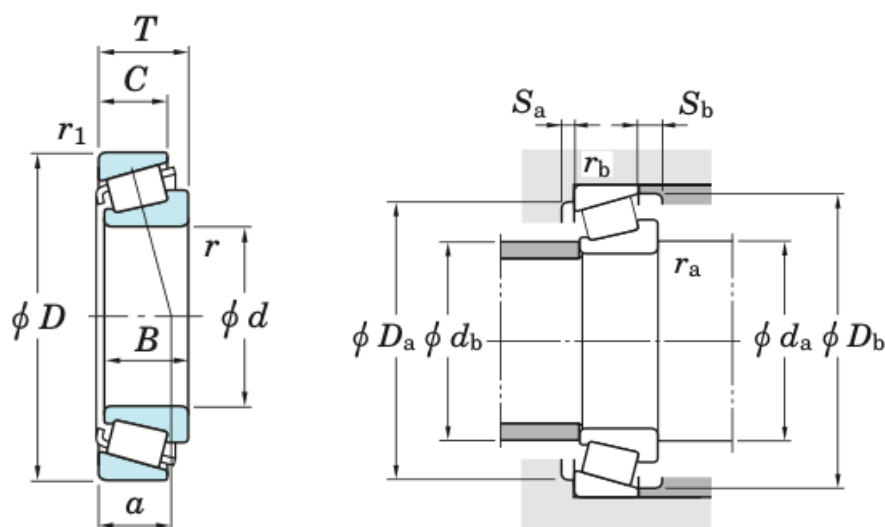


Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No. Size Reference
Sb	ra	rb		Y1	Y0		
min	max	max	e			Kg	
3	1	1	0.29	2.11	1.16	0.098	30302JR
3	1	1	0.29	2.11	1.16	0.133	30303JR
3	1	1	0.29	2.11	1.16	0.133	30303JR
3	1.5	1.5	0.30	2	1.1	0.179	30304AJR
3 5	1.5 1.5	1.5 1.5	0.30 0.83	2 0.73	1.1 0.40	0.273 0.269	30305JR 30305DJR
4.5 4.5	1.5 1.5	1.5 1.5	0.31 0.83	1.9 0.73	1.05 0.40	0.411 0.400	30306JR 30306DJR
7.5 7.5	2 2	1.5 1.5	0.83 0.83	0.73 0.73	0.4 0.4	0.536 0.536	30307JR 30307DJR
5 8	2 2	1.5 1.5	0.35 0.83	1.74 0.73	0.96 0.40	0.757 0.757	30308JR 30308DJR
5 9	2 2	1.5 1.5	0.35 0.83	1.74 0.73	0.96 0.40	1.01 0.973	30309JR 30309DJR
6 10	2 2	2 2	0.35 0.83	1.74 0.73	0.96 0.40	1.32 1.25	30310JR 30310DJR
10.5 10.5	2 2	2 2	0.83 0.83	0.73 0.73	0.4 0.4	1.59 1.59	30311JR 30311DJR
11.5 11.5	2.5 2.5	2 2	0.83 0.83	0.73 0.73	0.4 0.4	2.01 2.01	30312JR 30312DJR
13 13	2.5 2.5	2 2	0.83 0.83	0.73 0.73	0.4 0.4	2.44 2.44	30313DJR 30313DJR
13 13	2.5 2.5	2 2	0.83 0.83	0.73 0.73	0.4 0.4	2.97 2.97	30314JR 30314DJR

Tapered Roller Bearings

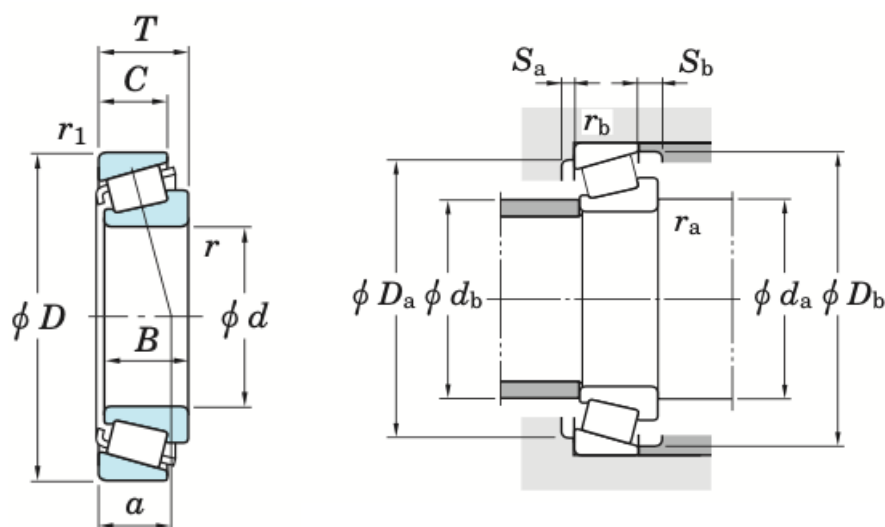
30300 - 33200 Series

Koyo



Also Stocking:

30315D/KOYO	75x160x140
30316D/KOYO	80x170x42.5
30317D/KOYO	85x180x44.5
30318D/KOYO	90x190x46.5
30319D/KOYO	95x200x49.5
30320D/KOYO	100x215x51.5
30322D/KOYO	110x240x54.4
30324/KOYO	120x260x59.5

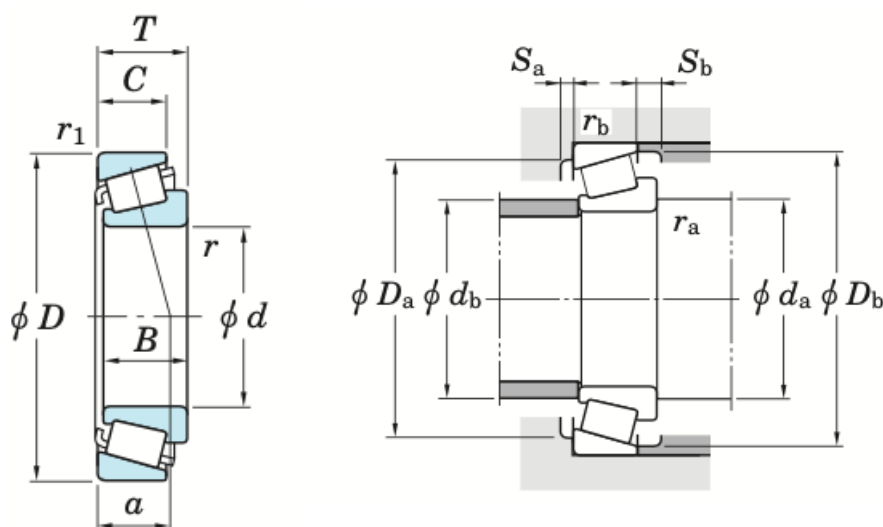


Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
20	42	15	15	12	0.6	0.6	34.1	31.5	4.35	9 700	13 00	32004JR
25	47	15	15	11.5	0.6	0.6	37.8	37.7	5.2	8 300	11 000	32005JR
30	55	17	17	13	1	1	47.9	48	6.75	7 000	9 400	32006JR
35	62	18	18	14	1	1	57	59.4	8.4	6 200	8 200	32007JR
40	68	19	19	14.5	1	1	67.2	71.4	10.3	5 600	7 400	32008JR
45	75	20	20	15.5	1	1	78.8	86.5	12.6	5 000	6 600	32009JR
50	80	20	20	15.5	1	1	82.7	94.5	13.8	4 600	6 100	32010JR
55	90	23	23	17.5	1.5	1.5	106	121	18.2	4 100	5 500	32011JR
60	95	23	23	17.5	1.5	1.5	108	127	19	3 900	5 200	32012JR
65	110	34	34	26.5	1.5	1.5	191	223	34.3	3 400	4 600	33113JR
70	110	25	25	19	1.5	1.5	136	163	24.8	3 300	4 400	32014JR
75	115	25	25	19	1.5	1.5	139	169	25.8	3 100	4 200	32015JR
80	125	29	29	22	1.5	1.5	185	225	34.6	2 900	3 900	32016JR
85	130	29	29	22	1.5	1.5	189	234	35.5	2 800	3 700	32017JR
90	140	32	32	24	2	1.5	224	276	41.5	2 600	3 500	32018JR
95	145	32	32	24	2	1.5	229	287	42.6	2 500	3 300	32019JR
100	150	32	32	24	2	1.5	233	298	43.8	2 400	3 200	32020JR
105	160	35	35	26	2.5	2	270	344	49.9	2 200	3 000	32021JR
110	170	38	38	29	2.5	2	312	395	56.7	2 100	2 800	32022JR
120	180	38	38	29	2.5	2	325	427	60.0	2 000	2 6000	32024JR
130	200	45	45	34	2.5	2	428	563	77.4	1 800	2 300	32026JR
140	210	45	45	34	2.5	2	435	585	79.2	1 700	2 200	32028JR

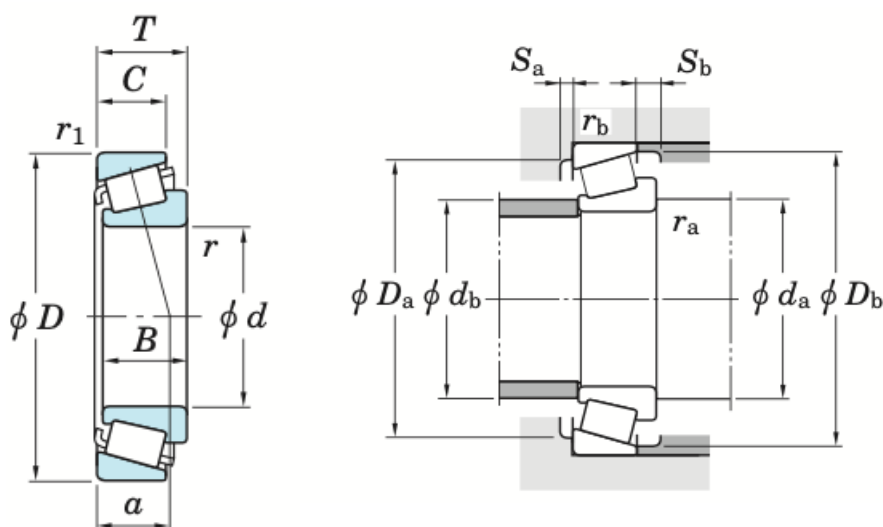
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
3CC	10.5	24.5	25	37.5	35	39	3	32004JR
4CC	11.8	29.5	30	42.5	40	44	3	32005JR
4CC	13.6	35.5	35	49.5	47	52	3	32006JR
4CC	15.1	40.5	40	56.5	54	59	4	32007JR
3CD	15.1	45.5	46	62.5	60	65	4	32008JR
3CC	16.5	50.5	51	69.5	67	72	4	32009JR
3CC	17.7	55.5	56	74.5	72	77	4	32010JR
3CC	19.8	63.5	63	81.5	81	86	4	32011JR
4CC	21	68.5	67	86.5	85	91	4	32012JR
3DE	25.9	73.5	73	101.5	96	106	6	33113JR
4CC	23.6	78.5	78	101.5	98	105	5	32014JR
4CC	25.1	83.5	83	106.5	103	110	5	32015JR
3CC	26.7	88.5	89	116.5	112	120	6	32016JR
4CC	28	93.5	94	121.5	117	125	6	32017JR
3CC	29.8	100	100	131.5	125	134	6	32018JR
4CC	31.2	105	105	136.5	130	140	6	32019JR
4CC	32.6	110	109	141	134	144	6	32020JR
4DC	34.5	117	116	150	143	154	6	32021JR
4DC	36.1	122	122	160	152	163	7	32022JR
4DC	38.8	132	131	170	161	173	7	32024JR
4EC	42.9	142	144	190	178	192	8	32026JR
4DC	45.6	152	153	200	187	202	8	32028JR

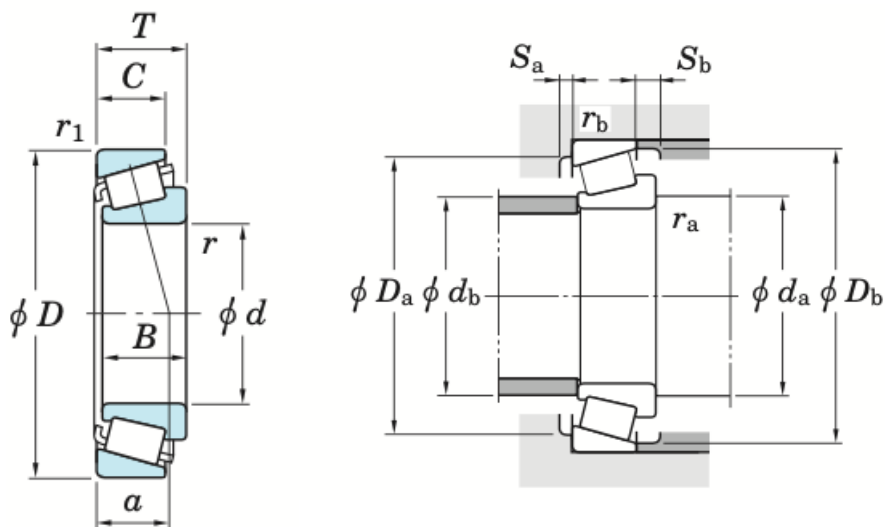


Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No.
Sb	ra	rb		Y1	Y0		
min	max	max	e			Kg	
3	0.6	0.6	0.37	1.60	0.88	0.102	32004JR
3.5	0.6	0.6	0.43	1.39	0.77	0.118	32005JR
4	1	1	0.43	1.39	0.77	0.177	32006JR
4	1	1	0.45	1.32	0.73	0.231	32007JR
4.5	1	1	0.38	1.58	0.87	0.282	32008JR
4.5	1	1	0.39	1.53	0.84	0.354	32009JR
4.5	1	1	0.42	1.42	0.78	0.389	32010JR
5.5	1.5	1.5	0.41	1.48	0.81	0.569	32011JR
5.5	1.5	1.5	0.43	1.39	0.77	0.621	32012JR
7.5	1.5	1.5	0.39	1.55	0.85	1.33	33113JR
6	1.5	1.5	0.43	1.38	0.76	0.884	32014JR
7	1.5	1.5	0.44	1.36	0.75	1.38	32017JR
8	2	1.5	0.42	1.42	0.78	1.8	32018JR
8	2	1.5	0.44	1.36	0.75	1.88	32019JR
8	2	1.5	0.46	1.31	0.72	1.95	32020JR
9	2	2	0.44	1.35	0.74	2.45	32021JR
9	2	2	0.43	1.39	0.77	3.12	32022JR
9	2	2	0.46	1.31	0.72	6.36	32024JR
11	2	2	0.43	1.38	0.76	5.04	32026JR
11	2	2	0.46	1.31	0.72	5.28	32028JR

Tapered Roller Bearings

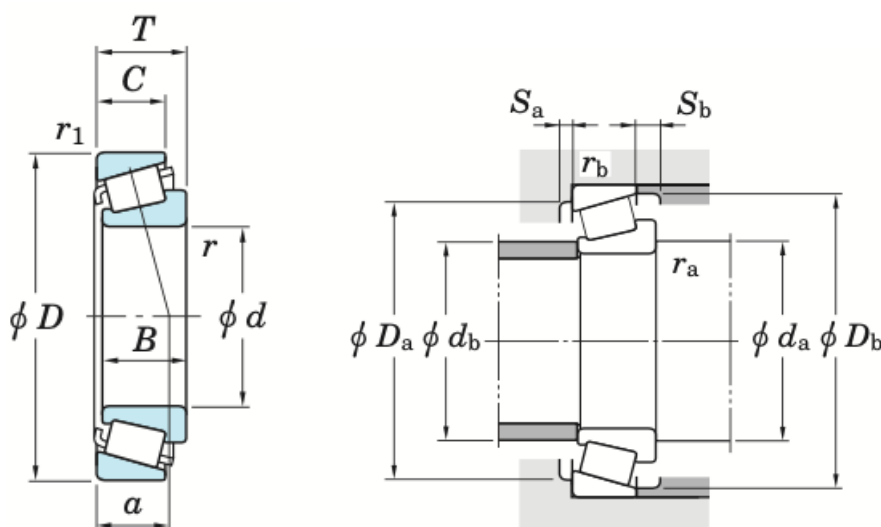
30300 - 33200 Series

Koyo



Also Stocking:

32030	150 x 225 x 48
32005JRRS	25 x 47 x 15
32006JRRS	30 x 55 x 17

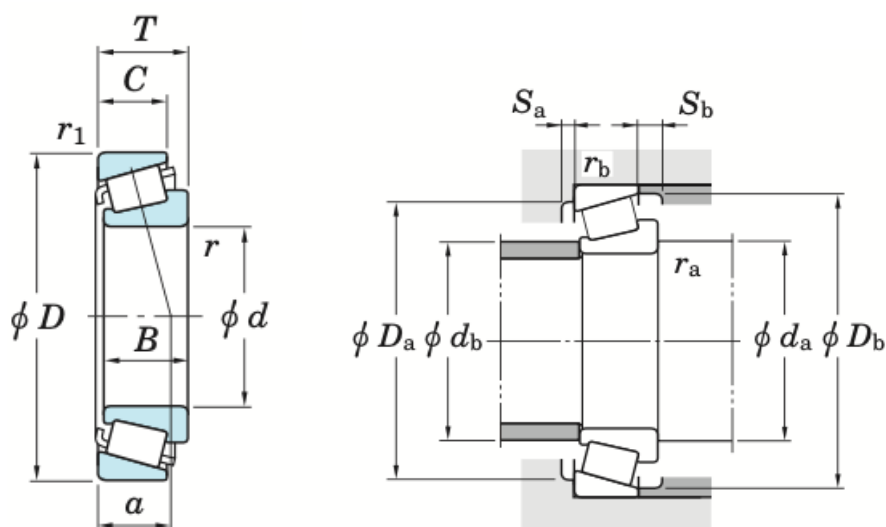


Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
20	47	19.25	18	15	1	1	41.4	34.7	4.9	8 900	12 000	32204JR
25	52	19.25	18	16	1	1	49.7	44.8	6.35	7 900	11 000	32205JR
30	62	21.25	20	17	1	1	63.3	57.9	8.4	6 500	8 700	32206JR
35	72	24.25	23	19	1.5	1.5	86.9	82.4	12.2	5 600	7 500	32207JR
40	80	24.75	23	19	1.5	1.5	97	90.8	13.6	5 000	6 600	32208JR
45	85	24.75	23	19	1.5	1.5	105	104	15.6	4 600	6 100	32209JR-1
50	90	24.75	23	19	1.5	1.5	106	105	15.9	4 300	5 700	32210JR
55	100	26.75	25	21	2	1.5	134	133	20.5	3 900	5 200	32211JR-1
60	110	29.75	28	24	2	1.5	164	167	25.9	3 500	4 700	32212JR
65	120	32.75	31	27	2	1.5	196	203	31.7	3 200	4 300	32213JR
70	125	33.25	31	27	2	1.5	212	225	35.2	3 100	4 100	32214JR
85	150	38.5	36	30	2.5	2	290	315	47.5	2 500	3 400	32217JR
90	160	42.5	40	34	2.5	2	329	362	53.7	2 400	3 200	32218JR
120	215	61.5	58	50	3	2.5	589	691	84.0	1 700	2 300	32224JR
140	250	71.75	68	58	4	3	796	961	112	1 500	2 000	32228JR

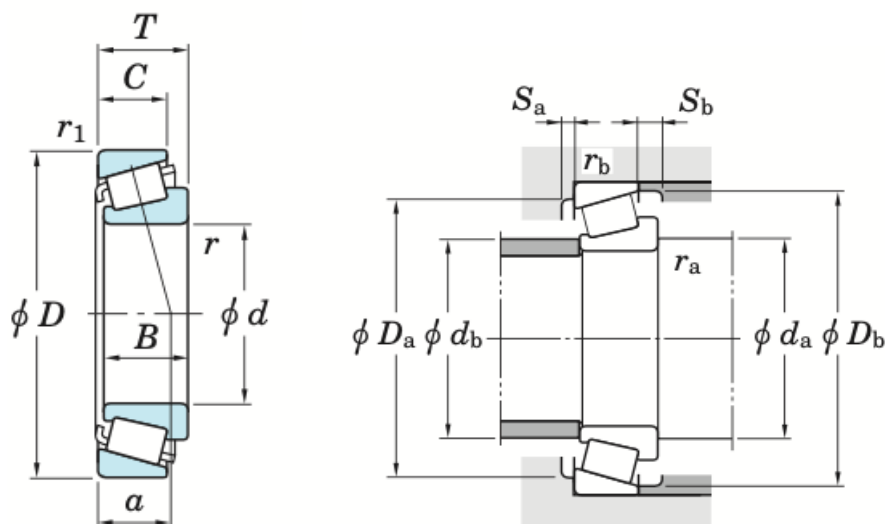
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2DD	12.5	25.5	27	41.5	39	43	2	32204JR
2CD	13.5	30.5	31	46.5	43	48	2	32205JR
3DC	15.9	35.5	37	56.5	52	58	2	32206JR
3DC	18.2	43.5	43	63.5	61	67	3	32207JR
3DC	19.4	48.5	48	71.5	68	75	3	32208JR
3DC	20.3	53.5	53	76.5	73	81	3	32209JR-1
3DC	20.6	58.5	58	81.5	78	85	3	32210JR
3DC	23	65	63	90	87	95	4	32211JR-1
3EC	25.1	70	69	100	95	104	4	32212JR
3EC	26.6	75	76	110	104	115	4	32213JR
3EC	29.2	80	80	116.5	108	119	4	32214JR
3EC	34.2	97	96	140	130	142	5	32217JR
3FC	37	102	102	150	138	152	5	32218JR
4FD	51.6	134	136	203	181	204	7	32224JR
4FD	60.0	158	158	236	210	238	9	32228JR

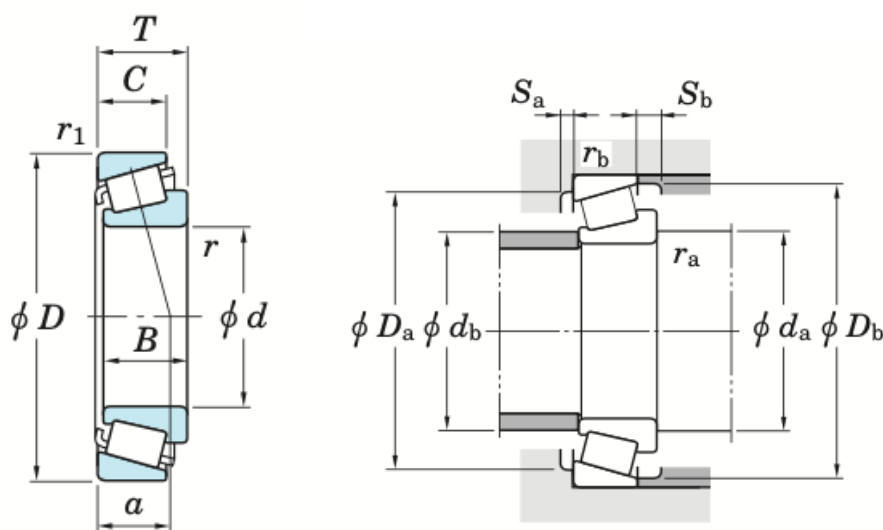


Mounting Dimensions			Constant	Axial Load Factors		Mass Kg	Bearing No. Size Reference
Sb	ra	rb		Y1	Y0		
min	max	max	e				
4	1	1	0.33	1.81	1	0.159	32204JR
4	1	1	0.36	1.67	0.92	0.188	32205JR
4	1	1	0.37	1.6	0.88	0.292	32206JR
5	1.5	1.5	0.37	1.6	0.88	0.453	32207JR
5.5	1.5	1.5	0.37	1.6	0.88	0.554	32208JR
5.5	1.5	1.5	0.4	1.48	0.81	0.597	32209JR-1
5.5	1.5	1.5	0.42	1.43	0.79	0.643	32210JR
5.5	2	1.5	0.4	1.48	0.81	0.863	32211JR-1
5.5	2	1.5	0.4	1.48	0.81	1.19	32212JR
5.5	2	1.5	0.4	1.48	0.81	1.58	32213JR
6	2	1.5	0.42	1.43	0.79	1.71	32214JR
8.5	2	2	0.42	1.43	0.79	2.8	32217JR
8.5	2	2	0.42	1.43	0.79	3.47	32218JR
11.4	2.5	2	0.44	1.38	0.76	9.04	32224JR
13.5	3	2.5	0.44	1.38	0.76	14.7	32228

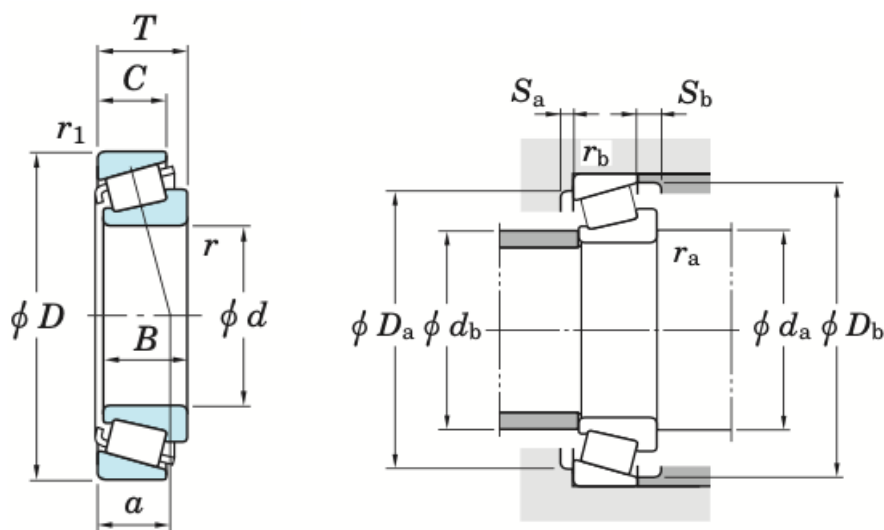
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
20	56	22.25	21	18	1.5	1.5	56.5	46.7	6.70	8 400	11 000	32304JR
25	62	25.25	24	20	1.5	1.5	76.6	64.1	9.5	6 900	9 100	32305JR
30	72	28.75	27	23	1.5	1.5	103	91.6	13.8	5 900	7 900	32306JR
35	80	32.75	31	25	2	1.5	126	114	17.3	5 300	7 000	32307JR
40	90	35.25	33	27	2	1.5	145	139	21.3	4 600	6 200	32308JR
45	100	38.25	36	30	2	1.5	183	180	27.7	4 100	5 500	32309JR
50	110	42.25	40	33	2.5	2	221	220	34.2	3 700	5 000	32310JR
55	120	45.5	43	35	2.5	2	250	250	39.1	3 400	4 500	32311JR
60	130	48.5	46	37	3	2.5	277	275	38.6	3 100	4 200	32312J
65	140	51	48	39	3	2.5	346	357	49.6	2 900	3 900	32313JR
70	150	54	51	42	3	2.5	396	414	57.2	2 700	3 600	32314JR
75	160	58	55	45	3	2.5	454	481	64.6	2 500	3 300	32315JR
80	170	61.5	58	48	3	2.5	434	440	58.6	2 300	3 100	32316
85	180	63.5	60	49	4	3	549	587	77.6	2 200	3 000	32317JR
90	190	67.5	64	53	4	3	577	614	77.7	2 100	2 800	32318
95	200	71.5	67	55	4	3	534	544	70.2	2 000	2 600	32319JR
100	215	77.5	73	60	4	3	725	783	96.9	1 800	2 400	32320
35	55	14	14	11.5	0.6	0.6	32.8	36.5	5.1	6 600	8 800	32907JR-2
35	55	14	14	11.5	0.6	0.6	32.8	36.5	5.1	6 600	8 800	32907JR-2

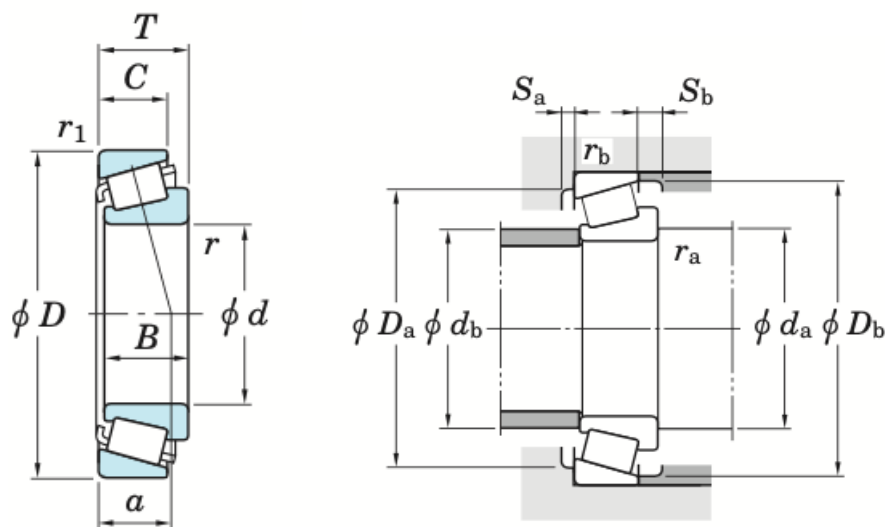


Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2FD	14.4	28.5	27	43.5	43	47	3	32304JR
2FD	16.6	33.5	33	53.5	52	57	3	32305JR
2FD	18.9	38.5	39	63.5	59	66	3	32306JR
2FE	20.6	45	44	70	66	74	3	32307JR
2FD	24.3	50	50	80	73	82	3	32308JR
2FD	26.8	55	56	90	82	93	3	32309JR
2FD	29.4	62	62	98	90	102	3	32310JR
2FD	32.4	67	68	108	99	111	4	32311JR
2FD	32.3	74	74	118	107	120	4	32312J
2GD	34.7	79	80	128	117	130	4	32313JR
2GD	37.4	84	86	138	125	140	4	32314JR
2GD	40	89	91	148	133	149	4	32315JR
2GD	43.5	94	98	158	142	159	4	32316
2GD	43.8	103	103	166	150	167	5	32317JR
2GD	46.6	108	108	176	157	177	5	32318
-	49.1	113	115	186	166	186	5	32319JR
-	52.6	118	123	201	177	200	8	32320
2BD	10.9	39.5	40	50.5	49	52	2.5	32907JR-2
2BD	10.9	39.5	40	50.5	49	52	2.5	32907JR-2

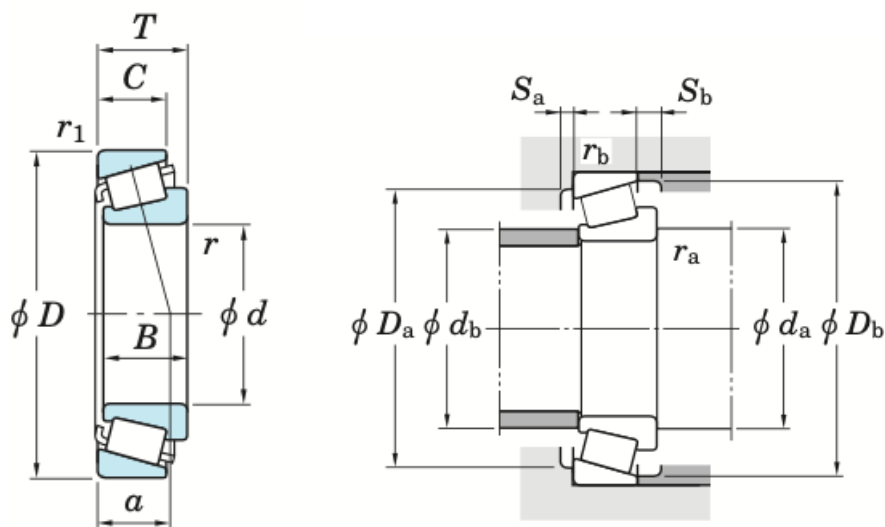
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No. Size Reference
Sb	ra	rb		Y1	Y0		
min	max	max	e			Kg	
4	1.5	1.5	0.30	2.00	1.10	0.244	32304JR
5	1.5	1.5	0.3	2	1.1	0.386	32305JR
5.5	1.5	1.5	0.31	1.9	1.05	0.588	32306JR
7.5	2	1.5	0.31	1.9	1.05	0.776	32307JR
8	2	1.5	0.35	1.74	0.96	1.06	32308JR
8	2	1.5	0.35	1.74	0.96	1.43	32309JR
9	2	2	0.35	1.74	0.96	1.89	32310JR
10.5	2	2	0.35	1.74	0.96	2.38	32311JR
11.5	2.5	2	0.35	1.74	0.96	2.87	32312J
12	2.5	2	0.35	1.74	0.96	3.64	32313JR
12	2.5	2	0.35	1.74	0.96	4.5	32314JR
13	2.5	2	0.35	1.74	0.96	5.41	32315JR
13.5	2.5	2	0.35	1.74	0.96	6.04	32316
14.5	3	2.5	0.35	1.74	0.96	7.42	32317JR
14.5	3	2.5	0.35	1.74	0.96	8.61	32318
16.6	3	2.5	0.35	1.73	0.40	6.68	32319JR
17.5	3	2.5	0.35	1.73	0.95	12.2	32320
2.5	0.6	0.6	0.29	2.06	1.13	0.12	32907JR-2
2.5	0.6	0.6	0.29	2.06	1.13	0.12	32907JR-2



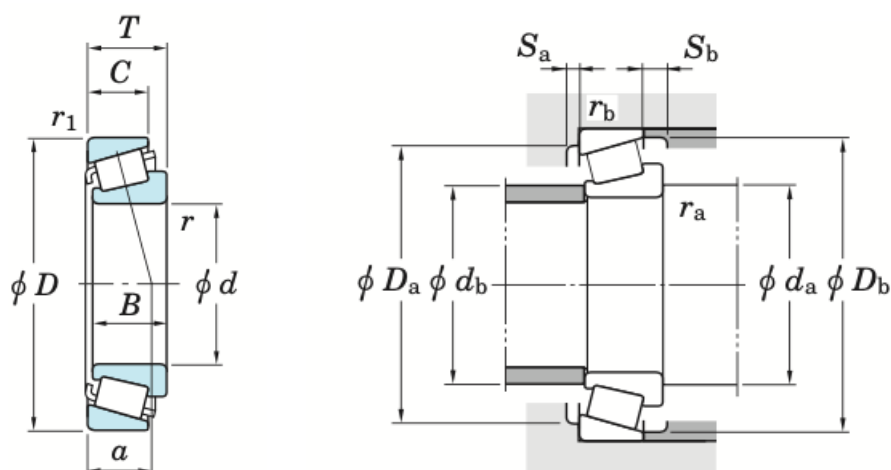
Also Stocking:

32303	17 x 47 x 20.25	32911	55 x 80 x 17
32908	40 x 62 x 15	32912	60 x 85 x 17
32909	45 x 68 x 15	32913	65 x 90 x 17
32910	50 x 72 x 15	32914	70 x 100 x 20

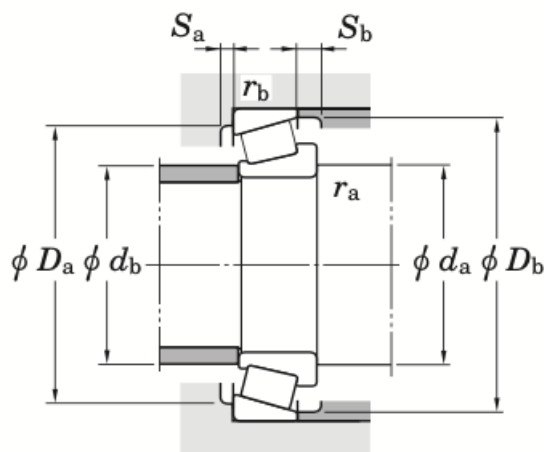
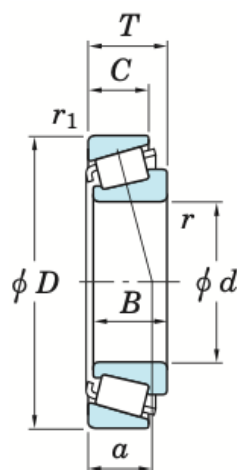
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
25	47	17	17	14	0.6	0.6	42.0	42.3	5.95	8 300	11 000	33005JR
35	62	21	21	17	1	1	64.3	68.0	9.85	6 200	8 200	33007JR
45	75	24	24	19	1	1	87.4	101	14.9	5 000	6 700	33009JR
50	80	24	24	19	1	1	91.8	110	16.3	4 600	6 100	33010JR
55	90	27	27	21	1.5	1.5	121	149	22.6	4 100	5 400	33011JR
60	95	27	27	21	1.5	1.5	127	162	24.5	3 900	5 200	33012JR
65	100	27	27	21	1.5	1.5	129	169	25.5	3 600	4 800	33013JR
70	110	31	31	25.5	1.5	1.5	168	208	32.3	3 300	4 400	33014JR
75	115	31	31	25.5	1.5	1.5	177	225	35	3 200	4 200	33015JR
85	130	36	36	29.5	1.5	1.5	222	300	46	2 800	3 700	33017JR
90	140	39	39	32.5	2	1.5	278	367	55.6	2 600	3 400	33018JR
95	145	39	39	32.5	2	1.5	284	382	57.3	2 500	3 300	33019JR
100	150	39	39	32.5	2	1.5	290	397	59.0	2 400	3 200	33020JR
110	170	47	47	37	2.5	2	360	502	64.9	2 100	2 800	33022JR
120	180	48	48	38	2.5	2	375	540	68.5	2 000	2 600	33024JR
130	200	55	55	43	2.5	2	489	705	85.8	1 700	2 300	33026JR
40	75	26	26	20.5	1.5	1.5	103	108	16.1	5 200	6 900	33108JR
45	80	26	26	20.5	1.5	1.5	110	120	17.9	4 800	6 400	33109JR
50	85	26	26	20	1.5	1.5	112	127	18.9	4 400	5 900	33110JR
55	95	30	30	23	1.5	1.5	145	161	24.6	4 000	5 300	33111JR
60	100	30	30	23	1.5	1.5	149	170	25.9	3 700	5 000	33112JR
65	110	34	34	26.5	1.5	1.5	191	223	34.3	3 400	4 600	33113JR
75	125	37	37	29	2	1.5	234	280	43.4	3 000	4 000	33115JR
80	130	37	37	29	2	1.5	240	294	44.9	2 800	3 800	33116JR
90	150	45	45	35	2.5	2	324	413	61.1	2 500	3 300	33118JR

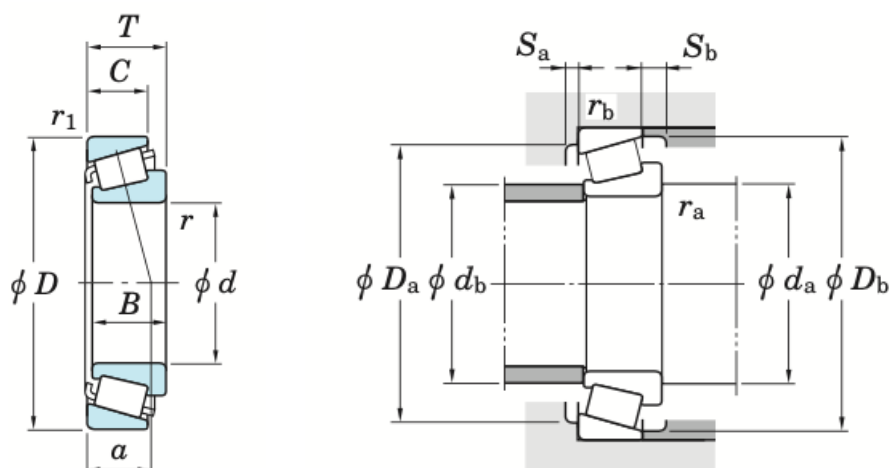


Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2CE	10.9	29.5	30	42.5	41	44	3	33005JR
2CE	14.2	40.5	41	56.5	55	59	3	33007JR
2CE	16.4	50.5	51	69.5	67	71	4	33009JR
2CE	17.4	55.5	56	74.5	72	76	4	33010JR
2CE	19.3	63.5	63	81.5	81	86	5	33011JR
2CE	20.1	68.5	67	86.5	85	90	5	33012JR
2CE	21.1	73.5	72	91.5	89	96	5	33013JR
2CE	22.1	78.5	78	101.5	99	105	5	33014JR
2CE	22.9	83.5	83	106.5	104	110	6	33015JR
2CE	26.3	93.5	94	121.5	118	125	6	33017JR
2CE	27.1	100	100	131.5	127	135	7	33018JR
2CE	27.8	105	104	136.5	131	139	7	33019JR
2CE	28.6	110	108	141	135	143	7	33020JR
2DE	33.4	122	123	160	152	161	7	33022JR
2DE	36.2	132	132	170	160	171	6	33024JR
2FE	42.5	142	143	190	178	192	8	33026JR
2CE	18.3	48.5	47	66.5	65	71	4	33108JR
3CE	19.4	53.5	52	71.5	69	76.5	4	33109JR
3CE	20.6	58.5	56	76.5	74	81.5	4	33110JR
3CE	22.5	63.5	62	86.5	83	91	5	33111JR
3CE	23.7	68.5	67	91.5	88	96	5	33112JR
3DE	25.9	73.5	73	101.5	96	106	6	33113JR
3DE	29.3	85	84	116.5	109	120	6	33115JR
3DE	30.5	90	89	121.5	114	126	6	33116JR
3DE	35.4	102	100	140	130	144	7	33118JR

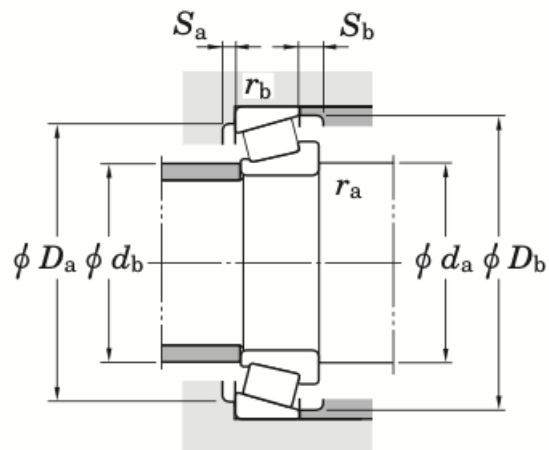
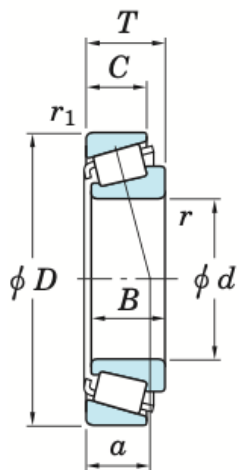
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No. Size Reference
Sb	ra	rb		Y1	Y0	Kg	
min	max	max	e				
3.5	0.6	0.6	0.43	1.39	0.77	0.118	33005JR
4	1	1	0.31	1.97	1.08	0.263	33007JR
5	1	1	0.29	2.04	1.12	0.416	33009JR
5	1	1	0.32	1.9	1.04	0.451	33010JR
6	1.5	1.5	0.31	1.92	1.06	0.672	33011JR
6	1.5	1.5	0.33	1.83	1.01	0.719	33012JR
6	1.5	1.5	0.35	1.72	0.95	0.762	33013JR
5.5	1.5	1.5	0.28	2.11	1.16	1.09	33014JR
5.5	1.5	1.5	0.3	2.01	1.11	1.16	33015JR
6.5	1.5	1.5	0.29	2.06	1.13	1.72	33017JR
6.5	2	1.5	0.27	2.23	1.23	2.22	33018JR
7.5	2.5	2	0.42	1.43	0.79	3.20	33019JR
6.5	2	1.5	0.29	2.09	1.15	2.40	33020JR
9	2	2	0.43	1.39	0.77	3.12	33022JR
10	2	2	0.31	1.97	1.08	4.16	33024JR
12	2	2	0.34	1.77	0.97	2.42	33026JR
5.5	1.5	1.5	0.36	1.69	0.93	0.508	33108JR
5.5	1.5	1.5	0.38	1.57	0.86	0.563	33109JR
6	1.5	1.5	0.41	1.46	0.8	0.594	33110JR
7	1.5	1.5	0.37	1.6	0.88	0.868	33111JR
7	1.5	1.5	0.4	1.51	0.83	0.923	33112JR
7.5	1.5	1.5	0.39	1.55	0.85	1.33	33113JR
8	2	1.5	0.4	1.51	0.83	1.84	33115JR
8	2	1.5	0.42	1.44	0.79	1.93	33116JR
10	2	2	0.40	1.51	0.83	3.13	33118JR



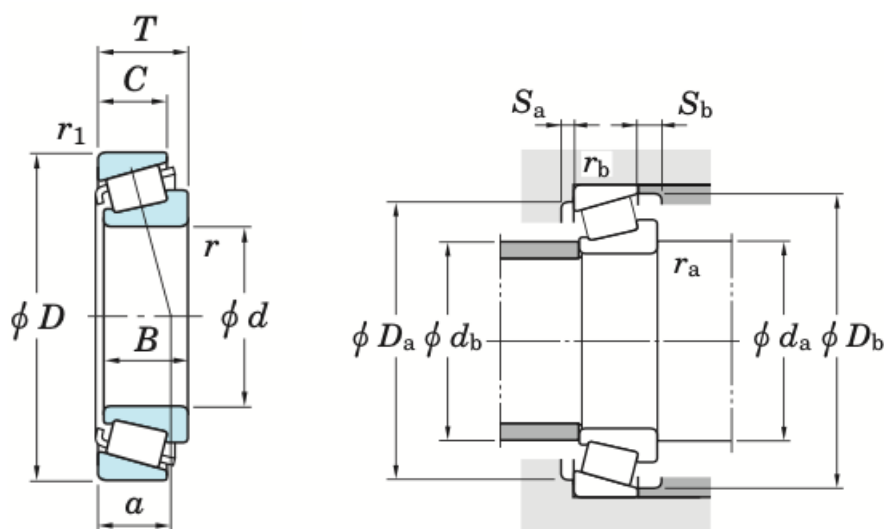
Also Stocking:

33008	40 x 68 x 22
33021	105 x 160 x 43
33219	95 x 170 x 58

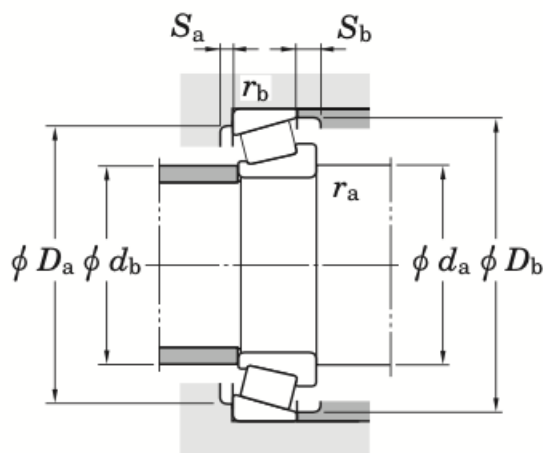
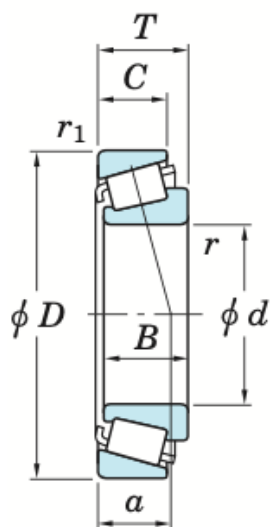
Tapered Roller Bearings

30300 - 33200 Series

Koyo



Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
25	52	22	22	18	1	1	61.1	58.5	8.25	7 900	10 000	33205JR
30	62	25	25	19.5	1	1	83.1	79.4	11.6	6 500	8 700	33206JR
35	72	28	28	22	1.5	1.5	110	107	15.8	5 700	7 500	33207JR
40	80	32	32	25	1.5	1.5	135	139	20.8	5 000	6 700	33208JR
45	85	32	32	25	1.5	1.5	139	149	22.3	4 600	6 200	33209JR
50	90	32	32	24.5	1.5	1.5	150	167	25	4 300	5 700	33210JR
55	100	35	35	27	2	1.5	178	189	28.9	3 900	5 200	33211JR
60	110	38	38	29	2	1.5	217	239	36.6	3 600	4 700	33212JR
65	120	41	41	32	2	1.5	250	277	43	3 200	4 300	33213JR
70	125	41	41	32	2	1.5	258	294	45.5	3 100	4 100	33214J
75	130	41	41	31	2	1.5	266	310	47.7	2 900	3 900	33215JR
80	140	46	46	35	2.5	2	313	371	56.1	2 700	3 600	33216JR
85	150	49	49	37	2.5	2	368	439	59.1	2 500	3 400	33217JR
100	180	63	63	48	3	2.5	540	680	85.8	2 100	2 800	33220JR

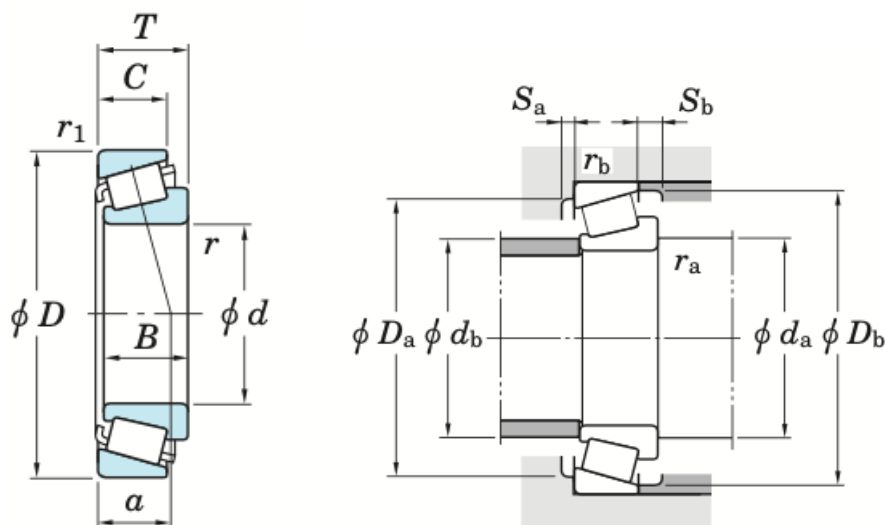


Dimension series to ISO355	Load Center	Mounting Dimensions						Bearing No. Size Reference
		da	db	da0		Db	Sa	
		min	max	max	min	min	min	
2DE	14.1	30.5	30	46.5	43	49	4	33205JR
2DE	16.3	35.5	36	56.5	53	59	5	33206JR
2DE	18.4	43.5	42	63.5	61	68	5	33207JR
2DE	20.7	48.5	47	71.5	67	76	5	33208JR
3DE	21.8	53.5	52	76.5	72	81	5	33209JR
3DE	23.1	58.5	57	81.5	77	86.5	5	33210JR
3DE	25.3	65	62	90	85	96	6	33211JR
3EE	27.2	70	69	100	93	105	6	33212JR
3EE	30	75	74	110	102	115	7	33213JR
3EE	31.2	80	79	116.5	107	120	7	33214J
3EE	32.5	85	83	121.5	111	125	7	33215JR
3EE	35.7	92	89	130	119	135	7	33216JR
3EE	37.1	97	95	140	128	144	7	33217JR
3FE	45.7	114	112	168	151	172	10	33220JR

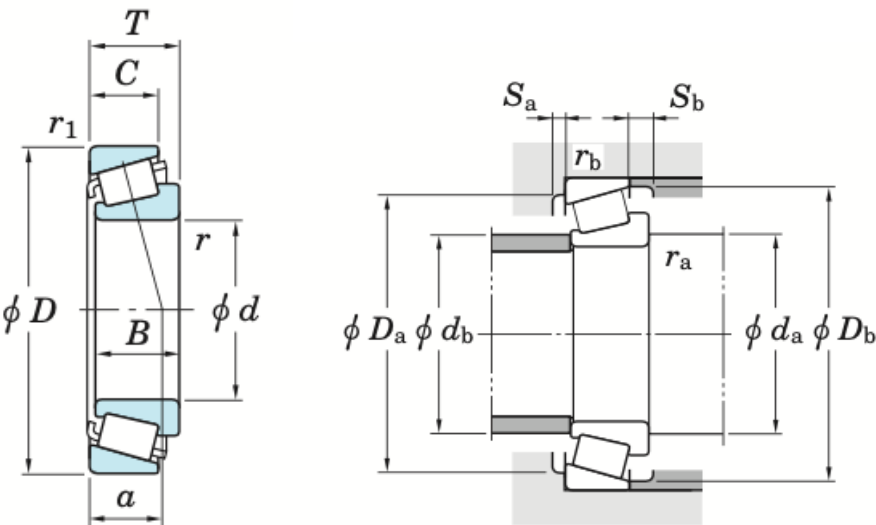
Tapered Roller Bearings

30300 - 33200 Series

Koyo



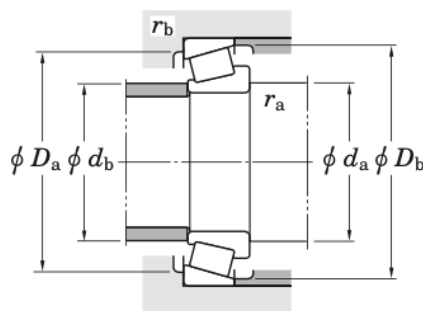
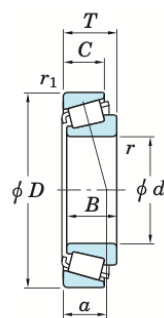
Mounting Dimensions			Constant	Axial Load Factors		Mass	Bearing No. Size Reference
Sb	ra	rb		Y1	Y0		
min	max	max	e			Kg	
4	1	1	0.35	1.71	0.94	0.225	33205JR
5.5	1	1	0.34	1.76	0.97	0.359	33206JR
6	1.5	1.5	0.35	1.7	0.93	0.551	33207JR
7	1.5	1.5	0.36	1.68	0.92	0.758	33208JR
7	1.5	1.5	0.39	1.56	0.86	0.818	33209JR
7.5	1.5	1.5	0.41	1.45	0.8	0.887	33210JR
8	2	1.5	0.4	1.5	0.83	1.18	33211JR
9	2	1.5	0.4	1.48	0.82	1.57	33212JR
9	2	1.5	0.39	1.54	0.85	2.02	33213JR
9	2	1.5	0.41	1.47	0.81	2.16	33214J
10	2	1.5	0.43	1.4	0.77	2.26	33215JR
11	2	2	0.43	1.41	0.78	2.99	33216JR
12	2	2	0.42	1.43	0.79	3.63	33217JR
15	2.5	2	0.40	1.48	0.82	6.92	33220JR



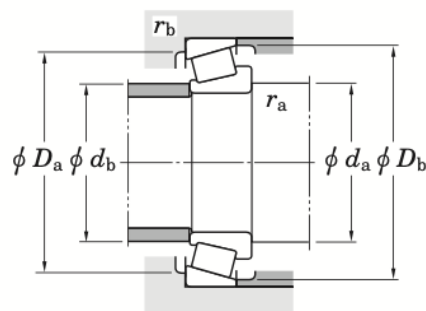
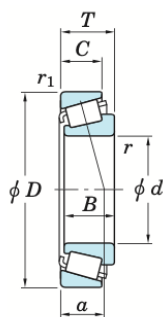
Also Stocking
39590/20/KOYO
555S/552A/KOYO
663/653/KOYO

Tapered Roller Bearings Inch Series

Koyo



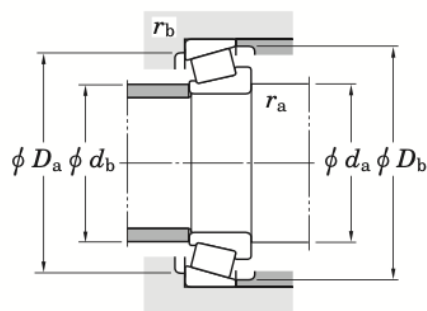
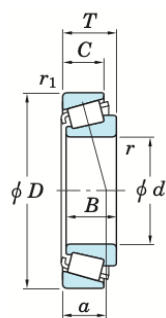
Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
28.575	68.262	22.225	22.225	17.462	0.8	1.6	63.7	61.1	8.8	6 000	8 000	02474/20
28.575	73.025	22.225	22.225	17.462	0.8	3.2	68.8	65.7	9.55	5 500	7 400	02872/20
19.05	49.225	21.209	19.05	17.462	1.2	1.6	47.2	37.7	5.4	8 900	12 000	09067/195
41.275	76.2	18.009	17.384	14.288	1.6	1.6	64.7	63.3	9.15	5 200	6 900	11162R/300
25.4	63.5	19.05	20.638	14.288	0.8	1.2	55.7	50.7	7.3	6 400	8 600	15101/245
31.75	62	18.161	19.05	14.288	SP	1.2	55.7	50.7	7.3	6 400	8 600	15123/245
31.75	62	19.05	20.638	14.288	0.8	1.2	55.7	50.7	7.3	6 400	8 600	15126/245
38.1	71.996	19	20.638	14.237	3.6	1.6	62.3	61.3	8.9	5 600	7 400	16150/284
41.275	73.025	16.667	17.462	12.7	3.6	1.6	57.6	55.8	8.15	5 200	6 900	18590/20
28.575	57.15	19.845	19.355	15.875	3.6	1.6	60.8	57.1	8.25	7 000	9 300	1988R/22
44.45	82.931	23.812	25.4	19.05	5.2	0.8	96.8	100	15.1	4 800	6 300	25580/20
34.925	73.025	23.812	24.608	19.05	1.6	0.8	90.1	87.3	13.1	5 600	7 400	25877R/21
50.8	92.075	24.608	25.4	19.845	3.6	0.8	107	119	17.9	4 200	5 600	28580/21
52.388	92.075	24.608	25.4	19.845	3.6	0.8	107	119	17.9	4 200	5 600	28584/21
55.562	97.63	24.608	24.608	19.446	3.6	0.8	113	131	19.7	3 900	5 200	28680/22
60.325	101.6	25.4	25.4	19.845	3.6	3.2	115	137	20.6	3 700	4 900	28985/20
60.325	101.6	25.4	25.4	19.845	3.6	3.2	115	137	20.6	3 700	4 900	28985/21
38.1	79.375	29.37	29.771	23.812	3.6	3.2	109	105	15.7	5 200	6 900	3490/20
46.038	85	20.638	21.692	17.462	2.4	1.2	89.6	81.7	12.4	4 600	6 200	359S/354X
50.8	88.9	20.638	22.225	16.513	3.6	1.2	92.9	87.3	13.3	4 400	5 800	368A/362A
50.8	93.264	30.162	30.302	23.812	3.6	3.2	129	137	20.9	4 200	5 500	3780/20
57.15	96.838	21	21.946	15.875	3.6	0.8	101	101	15.3	3 900	5 200	387A/382A
57.15	96.838	21	21.946	15.875	5.2	0.8	101	101	15.3	3 900	5 200	387A/382S
63.5	112.712	30.162	30.162	23.812	3.6	3.2	184	207	32.1	3 300	4 500	39585/20
82.55	139.992	36.512	36.098	28.575	3.6	3.2	220	262	39.8	2 700	3 600	580R/572
95.25	147.638	35.717	36.322	26.192	5.2	0.8	230	287	42.5	2 400	3 300	594A/592A
88.9	161.925	53.975	55.1	42.862	3.6	3.2	395	471	61.4	2 400	3 200	6580R/35
80.962	150.089	44.45	46.672	36.512	5.2	3.2	330	368	50.1	2 500	3 400	742



Bearing No.		Load Center (mm) a	Mounting Dimensions					
Inner Ring	Outer Ring		da	db	Da	Db	ra	rb
							max	max
2474	2420	17.1	36.5	36	59	63	0.8	1.6
2872	2829	18.4	37.5	37.0	62.0	68.0	0.8	3.2
9067	9196	13.8	25.5	24	41.5	44.5	1.2	1.6
11162R	11300	17.5	49	46.5	67	72	1.6	1.6
15101	15250R	13.2	32.5	31.5	55	59	0.8	1.2
15123	15245	13.2	42.5	36.5	55	58	3.5	1.2
15126	15245	13.2	37	36.5	55	58	0.8	1.2
16150	16282	15	49.5	43	63	67	3.6	1.6
18590	18520	14.5	53	46	66	69	3.6	1.6
1988R	1922	13.9	39.5	33.5	51	53.5	3.6	1.6
25582	25520	17.5	59	51	74	77	5.2	0.8
25877R	25821	15.8	43	40.5	65	68	1.6	0.8
28580R	28521	19.9	63	57	83	87	3.6	0.8
28584R	28521	19.9	65	58	83	87	3.6	0.8
28680	28622	21.2	68	62	88	92	3.6	0.8
28985	28920	22.8	73	67	89	96	3.6	3.2
28985	28920	22.8	73	67	89	96	3.6	3.2
3490	3420	20.8	52	45.9	67	74	3.6	3.2
3595	354A	15.5	55	51	77	80	2.4	1.2
368A	362A	16.1	62	56	81	84	3.6	1.2
3780	3720	22.2	64	58	82	88	3.6	3.2
387A	382A	17.4	69	62	89	92	3.6	0.8
387AS	382A	17.4	72	62	89	92	5.2	0.8
39585	39520	23.3	77	71	101	107	3.6	3.2
580R	572	31	98	91	125	133	3.6	3.2
594A	592XE	33.4	113	104	135	142	5.2	0.8
6580R	6535	49.8	109	98	141	154	3.6	3.2
740R	742	32.4	101	91	134	142	5.2	3.2

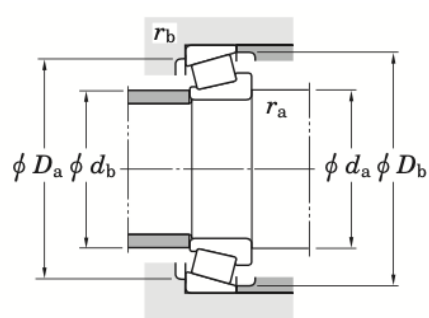
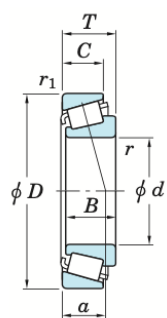
Tapered Roller Bearings Inch Series

Koyo



Constant	Axial Load Factors		Mass		Bearing No.
e	Y1	Y0	Inner Rng	Outer Ring	Size Reference
0.42	1.44	0.79	0.252	0.15	02474/20
0.45	1.32	0.73	0.319	0.158	02872/20
0.27	2.26	1.24	0.114	0.084	09067/195
0.49	1.23	0.68	0.221	0.127	11162R/300
0.35	1.71	0.94	0.215	0.097	15101/245
0.35	1.71	0.94	0.157	0.081	15123/245
0.35	1.71	0.94	0.171	0.081	15126/245
0.4	1.49	0.82	0.207	0.121	16150/284
0.35	1.71	0.94	0.199	0.085	18590/20
0.33	1.82	1	0.151	0.076	1988R/22
0.33	1.79	0.99	0.361	0.2	25580/20
0.29	2.07	1.14	0.31	0.165	25877R/21
0.38	1.59	0.87	0.453	0.247	28580/21
0.38	1.59	0.87	0.453	0.247	28584/21
0.4	1.49	0.82	0.492	0.267	28680/22
0.43	1.41	0.78	0.533	0.269	28985/20
0.43	1.41	0.78	0.533	0.23	28985/21
0.37	1.64	0.9	0.419	0.256	3490/20
0.31	1.96	1.08	0.323	0.16	3595/354X
0.32	1.88	1.03	0.331	0.164	368A/362A
0.34	1.77	0.97	0.547	0.288	3780/20
0.35	1.69	0.93	0.426	0.177	387A/382A
0.35	1.69	0.93	0.422	0.177	387A/382S
0.34	1.77	0.97	0.908	0.355	39585/20
0.4	1.49	0.82	1.41	0.779	580R/572
0.44	1.36	0.75	1.45	0.62	594A/592A
0.4	1.5	0.82	3.09	1.65	6580R/35
0.33	1.84	1.01	2.3	1.06	742

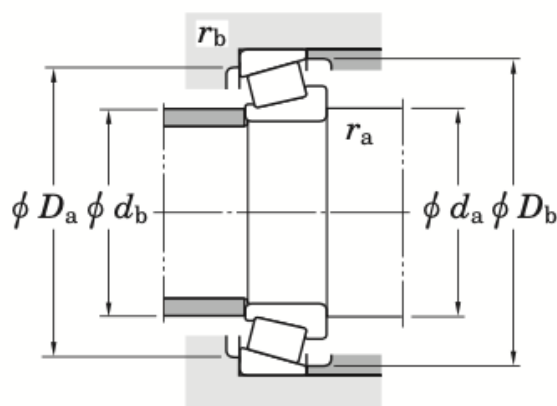
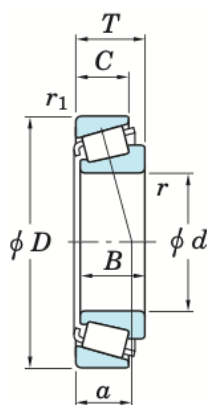
Every effort has been taken to ensure that the data listed in this catalogue is correct.
Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.



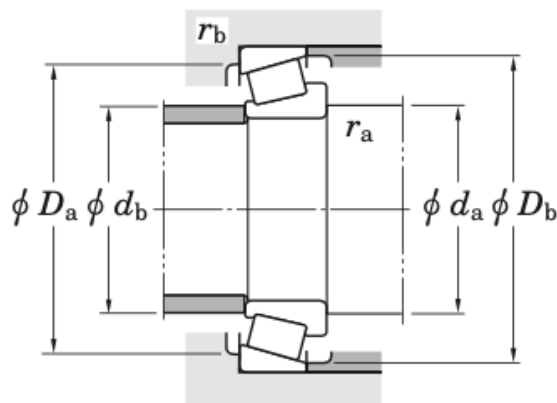
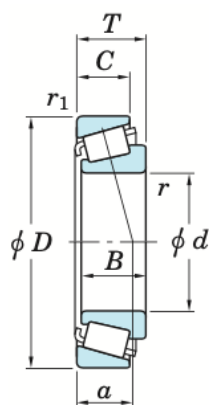
Also Stocking	
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14137A/276/KOYO	2788R/20/KOYO
17887/31/KOYO	2789R/20/KOYO
17887YA1/31/KOYO	28682/22/KOYO
23100/256/KOYO	3579R/25/KOYO
25577/23/KOYO	37P ₁PP00P82/20/KOYO
25580/22/KOYO	3982/20/KOYO
25590/20/KOYO	3984/20/KOYO
2580/23/KOYO	567/563/KOYO
26882R/20/KOYO	57307/30208J/KOYO
26882R/22/KOYO	598A/592A/KOYO
07100/196/KOYO	938/932/KOYO
395/394A/KOYO	469/453X/KOYO
HM212047YA/11/KOYO	320/28/KOYO
25877R/21/KOYO	14138A/276/KOYO
	47686/620

Tapered Roller Bearings Inch Series

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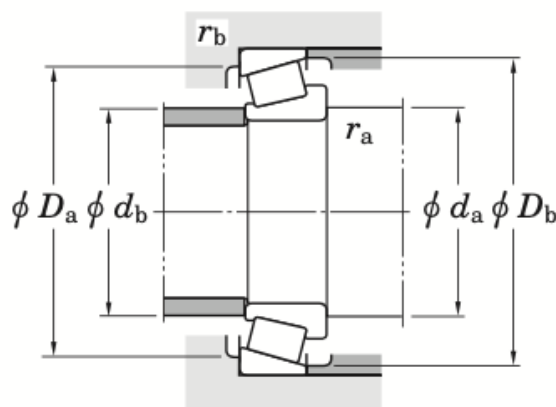
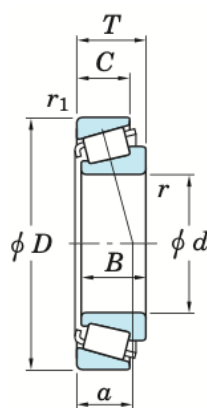
Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
82.55	150.089	44.45	46.672	36.512	3.6	3.2	330	368	50.1	2 500	3 400	749
101.6	212.725	66.675	66.675	53.975	7.1	3.2	563	674	84.1	1 800	2 400	932
114.3	212.725	66.675	66.675	53.975	7.1	3.2	563	674	84.1	1 800	2 400	938
63.5	136.525	41.275	41.275	31.75	3.6	3.2	302	308	48.1	2 900	3 800	H414210
71.438	136.525	41.275	41.275	31.75	3.6	3.2	284	308	46.1	2 900	3 800	H414249
66.675	122.238	38.1	38.354	29.718	3.6	1.6	238	249	39.1	3 200	4 300	HM212049/11-9
89.974	146.975	40	40	32.5	7.1	3.6	259	310	46.6	2 500	3 300	HM218248/10
88.9	152.4	39.688	39.688	30.162	6.4	3.2	311	359	53.5	2 400	3 200	HM518445/10
38.1	82.55	29.37	28.575	23.02	0.8	3.2	109	117	16.9	4 900	6 600	HM801346/10
41.275	88.9	30.162	29.37	23.02	3.6	3.2	124	125	18.5	4 600	6 100	HM803146/10
44.45	88.9	30.162	29.37	23.02	3.6	3.2	124	125	18.5	4 600	6 100	HM803149/10
48.412	95.25	30.162	29.37	23.02	2.4	3.2	130	140	20.7	3 300	4 400	HM804848/10
31.75	73.025	29.37	27.783	23.02	1.2	3.2	93	101	14.2	5 600	7 500	HM88542/10
34.925	72.233	25.4	25.4	19.842	2.4	2.4	83.8	87.4	12.4	5 700	7 600	HM88649/10
33.338	76.2	29.37	28.575	23.02	0.8	3.2	99.5	107	15.2	5 400	7 200	HM89443/10
38	63	17	17	13.5	SP	SP	54.7	58.2	8.25	6 000	8 000	JL69349/10
50	82	21.501	21.501	17	3	0.5	90	97.9	14.7	4 500	6 000	JLM104948/10
55	90	23	23	18.5	1.6	0.5	102	115	17.2	4 200	5 500	JLM506849/10
25.4	50.292	14.224	14.732	10.668	1.2	1.2	39.1	37	5.15	7 800	10 000	L44643R/10
26.988	50.292	14.224	14.732	10.668	3.6	1.2	39.1	37	5.15	7 800	10 000	L44649R/10
29	50.292	14.224	14.732	10.668	3.6	1.2	36.3	37.2	5.15	7 600	10 000	L45449/10
34.98	59.131	15.875	16.764	11.938	SP	1.2	44.9	48.5	6.85	6 400	8 500	L68149/10
34.98	59.975	15.875	16.764	11.938	SP	1.2	44.9	48.5	6.85	6 400	8 500	L68149/11
45.242	73.431	19.558	19.812	15.748	3.6	0.8	70	78.1	11.4	5 100	6 700	LM102949/10
45.242	73.431	19.558	19.812	15.748	3.6	0.8	70	78.1	11.4	5 100	6 700	LM102949/11
17.462	39.878	13.843	14.605	10.668	1.2	1.2	31.8	26	3.6	11 000	14 000	LM11749R/10
19.05	45.237	15.494	16.637	12.065	1.2	1.2	36.8	30.1	4.25	9 400	13 000	LM11949/10



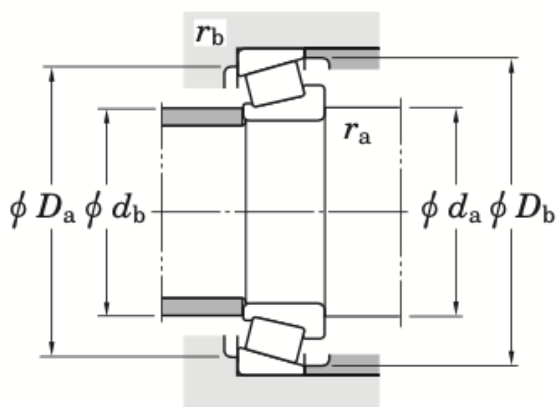
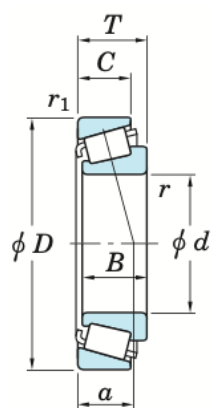
Bearing No.		Load Center (mm) a	Mounting Dimensions					
Inner Ring	Outer Ring		da	db	Da	Db	ra	rb
							max	max
749AR	742	32.4	99	93	134	142	3.6	3.2
941	932	47.6	121	135	181	192	7.1	3.2
938	932	47.6	141	128	187	193	7.1	3.2
H414235	H414210	30.3	82	78	121	129	3.6	3.2
H414249	H414210	30.3	89	83.3	121	129	3.6	3.2
HM212049	HM212010	27.3	82	75.5	110	116	3.6	1.6
HM218248	HM218210	30.8	112	99	133	141	7.1	3.6
HM518445	HM518410	33.1	110	98	135	146	6.4	3.2
HM801346	HM801310	24.4	51	49	68	78	0.8	3.2
HM803146	HM803110	26.1	60	53	74	85	3.6	3.2
HM803149	HM803110	26.1	62	53.4	74	85	3.6	3.2
HM804848	HM804810	26.5	63	57.5	81	91	2.4	3.2
HM88542	HM88510	23.4	45.5	42.5	59	70	1.2	3.2
HM88649	HM88610	20.7	48.5	42.5	60	69	2.4	2.4
HM89443	HM89410	23.9	46.5	44.6	62	73	0.8	3.2
JL69349	JL69310	14.6	49	41	60	56.5	3.5	1.2
JLM104948	JLM104910	16.2	60	55	76	78	3	0.5
JLM506849	JLM506810	20.1	63	61	82	86	1.6	0.5
L44643R	L44610	10.8	31.5	29.5	44.5	47	1.2	1.2
L44649R	L44610	10.8	37.5	31	44.5	47	3.6	1.2
L45449	L45410	10.9	39.5	33	44.5	48	3.6	1.2
L68149	L68110	13.2	45.5	39	53	56	3.5	1.2
L68149	L68111	13.2	45.5	39	53	56	3.5	1.2
LM102949	LM102910	14.7	56	50	68	70	3.6	0.8
LM102949	LM102910	14.7	56	50	68	70	3.6	0.8
LM11749R	LM11710	8.6	23	21.5	34	37	1.2	1.2
LM11949	LM11910	10	25	23.5	39.5	41.5	1.2	1.2

Tapered Roller Bearings Inch Series

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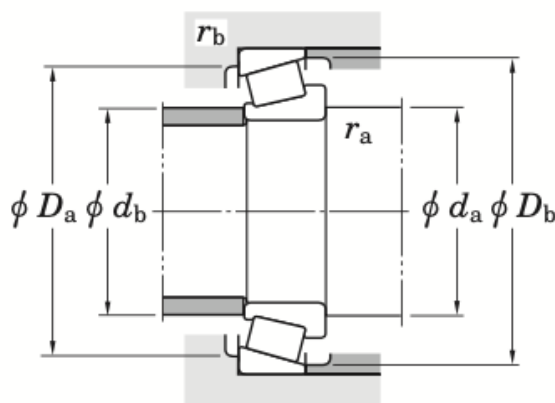
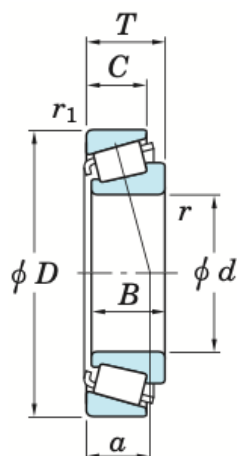
Constant	Axial Load Factors		Mass		Bearing No.
e	Y1	Y0	Inner Rng	Outer Ring	Size Reference
0.33	1.84	1.01	2.23	1.06	749
0.33	1.84	1.01	7.07	4.07	932
0.33	1.84	1.01	5.96	4.07	938
0.36	1.67	0.92	2.11	0.796	H414210
0.36	1.67	0.92	1.8	0.788	H414249
0.34	1.78	0.98	1.26	0.596	HM212049/11-9
0.33	1.8	0.99	1.66	0.784	HM218248/10
0.4	1.49	0.82	2.1	0.768	HM518445/10
0.55	1.1	0.6	0.483	0.282	HM801346/10
0.55	1.1	0.6	0.574	0.318	HM803146/10
0.55	1.1	0.6	0.525	0.318	HM803149/10
0.55	1.1	0.6	0.606	0.351	HM804848/10
0.55	1.1	0.6	0.377	0.238	HM88542/10
0.55	1.1	0.6	0.301	0.185	HM88649/10
0.55	1.1	0.6	0.415	0.254	HM89443/10
0.42	1.44	0.79	0.128	0.07	JL69349/10
0.31	1.97	1.08	0.304	0.128	JLM104948/10
0.4	1.49	0.82	0.37	0.183	JLM506849/10
0.37	1.6	0.88	0.092	0.039	L44643R/10
0.37	1.6	0.88	0.083	0.039	L44649R/10
0.37	1.62	0.89	0.079	0.036	L45449/10
0.42	1.44	0.79	0.112	0.056	L68149/10
0.42	1.44	0.79	0.112	0.063	L68149/11
0.31	1.97	1.08	0.209	0.1	LM102949/10
0.31	1.97	1.08	0.209	0.1	LM102949/11
0.29	2.1	1.15	0.058	0.028	LM11749R/10
0.3	1.84	1.01	2.3	1.06	LM11949/10



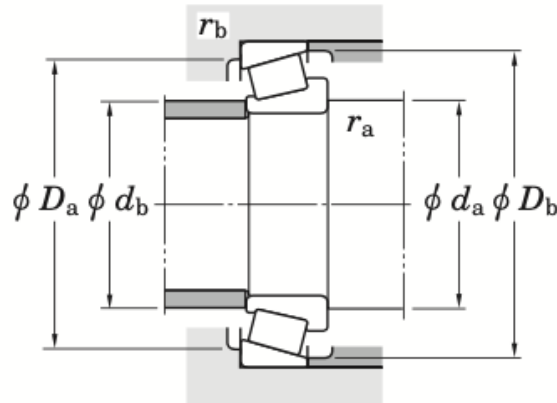
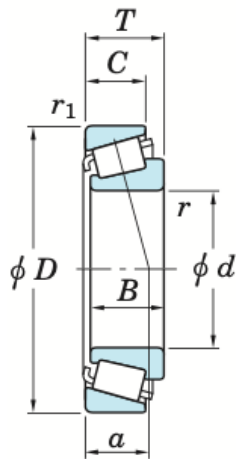
Also Stocking
HM89446/10/KOYO
HM903249/10/KOYO
LM300849/11/KOYO
HM516449/10/KOYO
M84548/10/KOYO
HM212049/10
HM89448/10
HM89449/10
JLM704649/10
LM104949/11
LM503349A/10
LM67049A/10

Tapered Roller Bearings Inch Series

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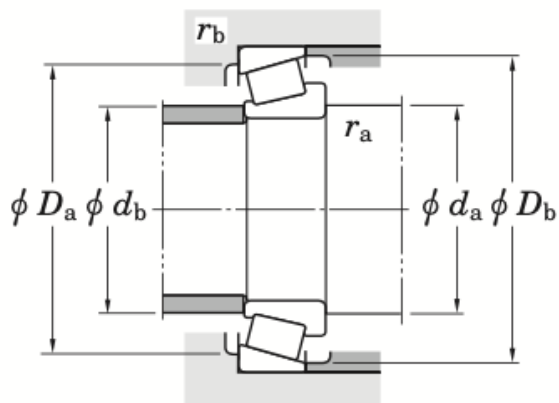
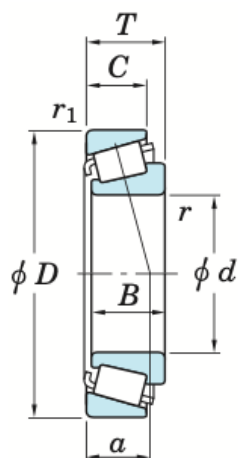
Boundary dimensions (mm)							Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.
d	D	T	B	C	r (min)	r1 (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference
21.987	45.974	15.494	16.637	12.065	1.2	1.2	37.5	34.6	4.85	8 900	12 000	LM12749/10
21.987	45.974	15.494	16.637	12.065	1.2	1.2	37.5	34.6	4.85	8 900	12 000	LM12749/11
38.1	65.088	18.034	18.288	13.97	SP	1.2	53.9	56.5	8.15	5 800	7 800	LM29748/10
38.1	65.088	19.812	18.288	15.748	2.4	1.2	53.9	56.5	8.15	5 800	7 800	LM29749/10
34.925	65.088	18.034	18.288	13.97	SP	1.2	60	58.5	8.4	6 000	8 000	LM48548/10
41.275	73.431	19.558	19.812	14.732	3.6	0.8	72.5	73	10.6	5 200	7 000	LM501349/10
41.275	73.431	19.558	19.812	14.732	3.6	0.8	72.5	73	10.6	5 200	7 000	LM501349/14
45.242	77.788	19.842	19.842	15.08	3.6	0.8	71.7	73.5	10.7	4 900	6 500	LM603049/11
45.242	77.788	19.842	19.842	15.08	3.6	0.8	71.7	73.5	10.7	4 900	6 500	LM603049/12
31.75	59.131	15.875	16.764	11.811	SP	1.2	44.8	43.1	6.05	6 600	8 800	LM67048/10
31.75	59.131	15.875	16.764	11.811	SP	1.2	44.8	43.1	6.05	6 600	8 800	LM67048RS/10
21.43	50.005	17.526	18.288	13.97	1.2	1.2	48.8	40.7	5.8	8 500	11 000	M12649/10
41.275	82.55	26.543	25.654	20.193	3.6	3.2	105	105	15.4	4 900	6 500	M802048/11
30.162	64.292	21.432	21.432	16.67	1.6	1.6	69.1	70.7	9.9	6 400	8 500	M86649RYP/10
30.162	68.262	22.225	22.225	17.462	2.4	1.6	70.2	71.1	10	6 000	7 900	M88043/10
33.338	68.262	22.225	22.225	17.462	0.8	1.6	70.2	71.1	10	6 000	7 900	M88048/10



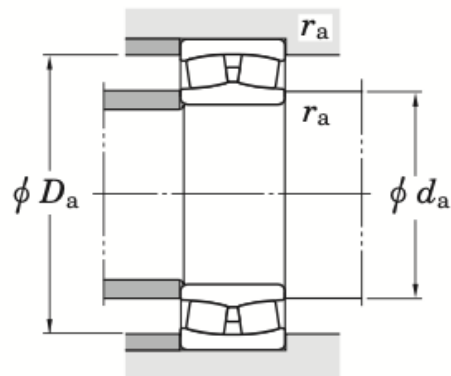
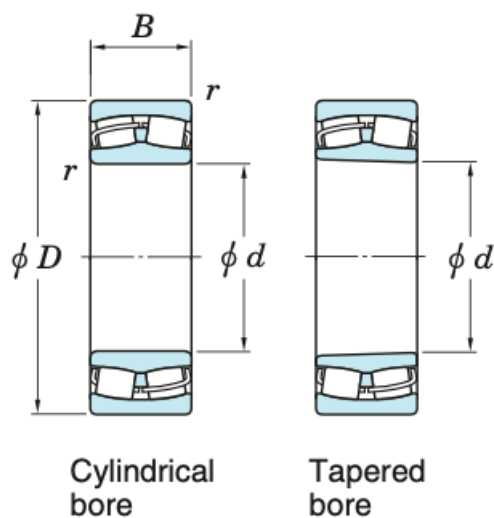
Bearing No.		Load Center (mm) a	Mounting Dimensions					
Inner Ring	Outer Ring		da	db	Da	Db	ra	rb
							max	max
LM12749	LM12711	10	27.5	26	40	42.5	1.2	1.2
LM12749	LM12711	10	27.5	26	40	42.5	1.2	1.2
LM29748	LM29710	13.8	49	42.5	59	62	3.5	1.2
LM29749	LM29711	15.6	46	42.5	58	62	2.4	1.2
LM48548	LM48510	14.3	46	40	58	61	3.5	1.2
LM501349	LM501310	16.1	53	46.5	67	70	3.6	0.8
LM501349	LM501310	16.1	53	46.5	67	70	3.6	0.8
LM603049	LM603011	17.5	57	50	71	74	3.6	0.8
LM603049	LM603011	17.5	57	50	71	74	3.6	0.8
LM67048	LM67010	13	42.5	36	52	56	3.5	1.2
LM67048	LM67010	13	42.5	36	52	56	3.5	1.2
M12649	M12610	11.1	27.5	25.5	44	46	1.2	1.2
M802048	M802011	23.3	57	50.6	70	79	3.6	3.2
M86649R	M86610	18	41	38	54	61	1.6	1.6
M88043	M88010	19.2	43.5	39.5	58	65	2.4	1.6
M88048	M88010	19.2	42.5	41	58	65	0.8	1.6

Tapered Roller Bearings Inch Series

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Constant	Axial Load Factors		Mass		Bearing No.
e	Y1	Y0	Inner Rng	Outer Ring	Size Reference
0.31	1.96	1.08	0.078	0.043	LM12749/10
0.31	1.96	1.08	0.078	0.043	LM12749/11
0.33	1.8	0.99	0.154	0.079	LM29748/10
0.33	1.8	0.99	0.159	0.092	LM29749/10
0.38	1.59	0.88	0.164	0.086	LM48548/10
0.4	1.5	0.83	0.227	0.107	LM501349/10
0.4	1.5	0.83	0.227	0.107	LM501349/14
0.43	1.41	0.77	0.243	0.12	LM603049/11
0.43	1.41	0.77	0.243	0.12	LM603049/12
0.41	1.46	0.8	0.12	0.062	LM67048/10
0.41	1.46	0.8	0.12	0.062	LM67048R5/10
0.28	2.16	1.19	0.119	0.058	M12649/10
0.55	1.1	0.6	0.403	0.227	M802048/11
0.55	1.1	0.6	0.213	0.127	M86649RYR/10
0.55	1.1	0.6	0.258	0.144	M88043/10
0.55	1.1	0.6	0.231	0.144	M88048/10

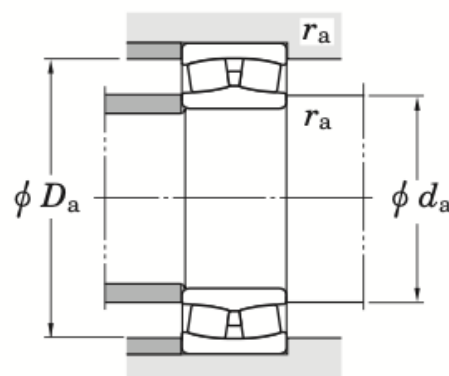
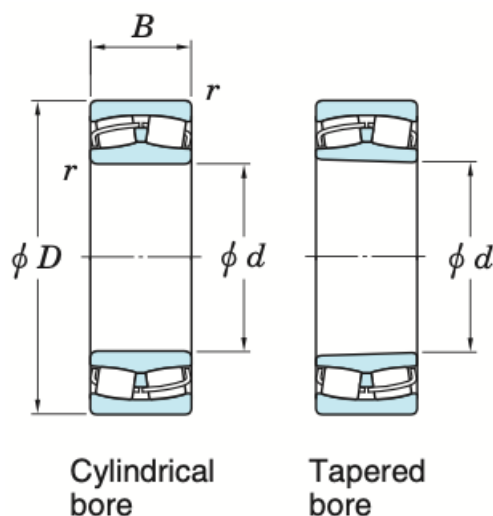


Boundary dimensions (mm)				Basic Load Ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.	
d	D	B	r (min)	Cr	Cor	Cu	Grease Lub	Oil Lub	Cylindrical Bore	Tapered Bore
50 50	90 90	23 23	1.1 1.1	128 128	122 122	12.7 12.7	3 900 3 900	5 200 5 200	22210RHR 22210RHR	22210RHRK 22210RHRK
55 55	100 100	25 25	1.5 1.5	154 154	144 144	15 15	3 400 3 400	4 600 4 600	22211RHR 22211RHR	22211RHRK 22211RHRK
60 60	110 110	28 28	1.5 1.5	190 190	181 181	18.7 18.7	3 100 3 100	4 200 4 200	22212RHR 22212RHR	22212RHRK 22212RHRK
65 65	120 120	31 31	1.5 1.5	222 222	211 211	20.7 20.7	2 900 2 900	3 800 3 800	22213RHR 22213RHR	22213RHRK 22213RHRK
70 70	125 125	31 31	1.5 1.5	233 233	222 222	24.4 24.4	2 700 2 700	3 600 3 600	22214RHR 22214RHR	22214RHRK 22214RHRK
75 75	130 130	31 31	1.5 1.5	241 241	236 236	28.2 28.2	2 600 2 600	3 400 3 400	22215RHR 22215RHR	22215RHRK 22215RHRK
80 80	140 140	33 33	2 2	271 271	271 271	30.5 30.5	2 400 2 400	3 200 3 200	22216RHR 22216RHR	22216RHRK 22216RHRK
85 85	150 150	36 36	2 2	322 322	324 324	35.7 35.7	2 200 2 200	3 000 3 000	22217RHR 22217RHR	22217RHRK 22217RHRK

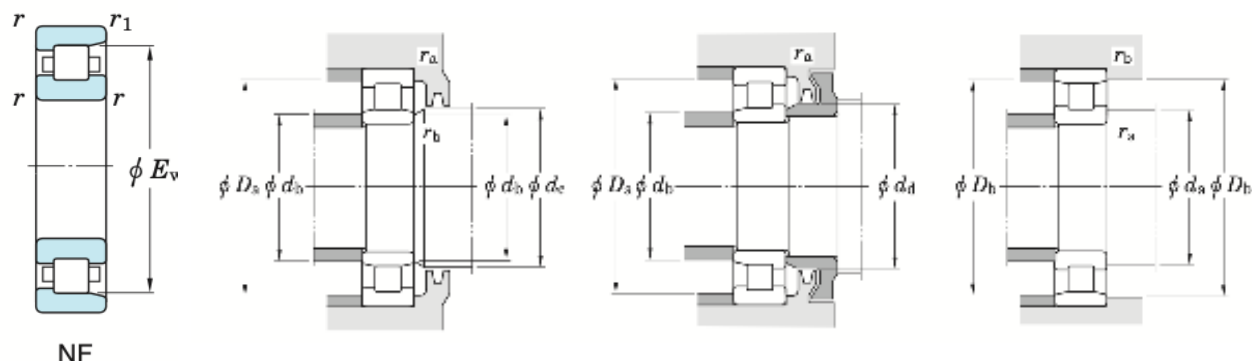
Spherical Roller Bearings

22200 Series

Koyo



Mounting Dimensions					Constant	Axial Load Factors			Mass		Bearing No. Size Reference
da		Da		ra	e	Y1	Y2	Y3	Cylindrical Bore	Tapered Bore	
min	max	max	min	max							
57 57	58.5 58.5	83 83	82.5 82.5	1 1	0.24 0.24	2.79 2.79	4.15 4.15	2.73 2.73	0.648 0.648	0.634 0.634	22210RZKW33C3 22210RZW33C3
63.5 63.5	64 64	91.5 91.5	91.5 91.5	1.5 1.5	0.24 0.24	2.84 2.84	4.23 4.23	2.78 2.78	0.867 0.867	0.849 0.849	22211RZKW33C3 22211RZW33C3
68.5 68.5	70 70	101.5 101.5	100 100	1.5 1.5	0.25 0.25	2.74 2.74	4.08 4.08	2.68 2.68	1.19 1.19	1.17 1.17	22212RZKW33C3 22212RZW33C3
73.5 73.5	76 76	111.5 111.5	109 109	1.5 1.5	0.25 0.25	2.69 2.69	4 4	2.63 2.63	1.55 1.55	1.52 1.52	22213RZKW33C3 22213RZW33C3
78.5 78.5	80 80	116.5 116.5	114 114	1.5 1.5	0.24 0.24	2.87 2.87	4.27 4.27	2.8 2.8	1.64 1.64	1.61 1.61	22214RZKW33C3 22214RZW33C3
83.5 83.5	85.5 85.5	121.5 121.5	119 119	1.5 1.5	0.22 0.22	3.07 3.07	4.57 4.57	3 3	1.73 1.73	1.69 1.69	22215RHRW33C3 22215RZKW33C3
90 90	92 92	130 130	128 128	2 2	0.22 0.22	3.07 3.07	4.57 4.57	3 3	2.17 2.17	2.13 2.13	22216RZKW33C3 22216RZW33C3
95 95	97 97	140 140	137 137	2 2	0.22 0.22	3.01 3.01	4.48 4.48	2.94 2.94	2.75 2.75	2.69 2.69	22217RHRW33C3 22217RZKW33C3



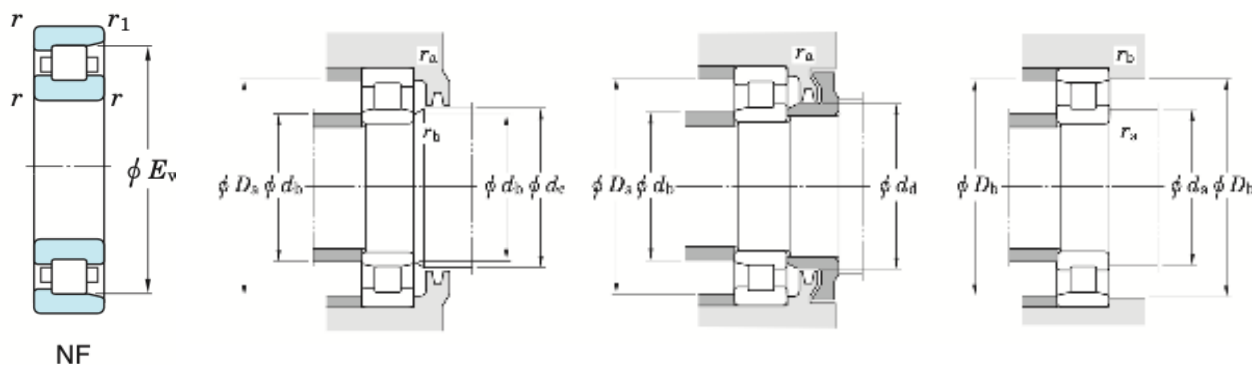
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Boundary dimentions (mm)							Basic Load Ratings		Fatigue Load	Limiting Speeds		Bearing no.	
d	D	B	r min	r1 min	Fw	Ew	Cr	Cor	Cu	Grease Lub	Oil Lub	Size Reference	
20	47	14	1	0.6	-	40	19.3	12.7	1.45	15 000	18 000	N204	NF204
25	52	15	1	0.6	-	45	22.1	15.7	1.8	13 000	16 000	N205	NF205
30	62	16	1	0.6	-	53.5	31.1	21.5	2.95	11 000	13 000	N206	NF206
35	72	17	1.1	0.6	-	61.8	44.6	31.5	4.7	9 500	11 000	N207	NF207
40	80	18	1.1	1.1	-	70	54.7	42.9	6.15	8 300	10 000	N208	NF208
45	85	19	1.1	1.1	-	75	57.6	46.9	6.7	7 700	9 200	N209	NF209
50	90	20	1.1	1.1	-	80.4	60.3	51.0	7.30	7 100	8 500	N210	NF210
55	100	21	1.5	1.1	-	88.5	72.5	62.3	8.3	6 400	7 700	N211	NF211
60	110	22	1.5	1.5	-	97.5	85.7	79.9	10.4	5 800	7 000	N212	NF212
65	120	23	1.5	1.5	-	105.6	105	94.4	13.5	5 400	6 400	N213	NF213
25	62	17	1.1	1.1	-	53	36.6	25.2	3.45	10 000	14 000	N305	NF305
30	72	19	1.1	1.1	-	62	48.3	35.2	5	8 700	12 000	N306	NF306
35	80	21	1.5	1.1	-	68.2	62	46.9	6.2	7 900	10 000	N307	NF307
40	90	23	1.5	1.5	-	77.5	73.4	56.9	7.85	6 900	9 100	N308	NF308
45	100	25	1.5	1.5	-	86.5	98.5	77.5	11.3	6 200	8 300	N309	NF309
50	110	27	2	2	-	95	109	93.4	11.7	5 600	7 500	N310	NF310
55	120	29	2	2	-	104.5	138	111	15.8	5 100	6 800	N311	NF311
60	130	31	2.1	2.1	-	113	155	126	17.3	4 700	6 300	N312	NF312
65	140	33	2.1	2.1	-	121.5	169	139	19.2	4 300	5 800	N313	NF313
70	150	35	2.1	2.1	-	130	198	168	23.3	4 000	5 400	N314	-
75	160	37	2.1	2.1	-	139.5	224	205	28.4	3 800	5 000	N315	-
80	170	39	2.1	2.1	-	147	238	207	30.7	3 500	4 700	N316	-
85	180	41	3	3	-	156	281	247	35.6	3 300	4 500	N317	-

Cylindrical Bearings

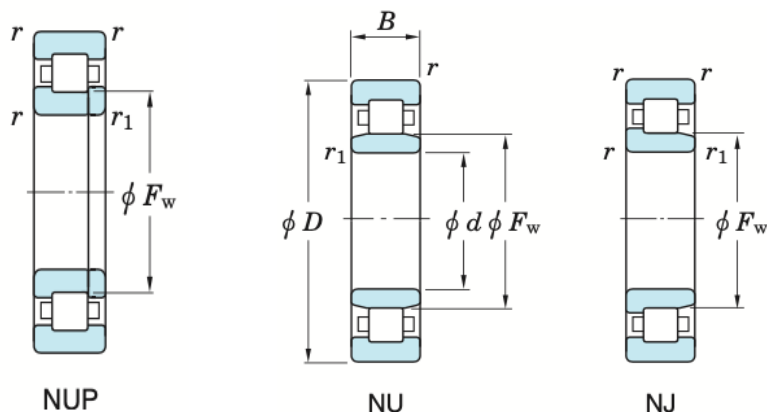
N/NF Series

Koyo



NF

Mounting Dimensions											Mass NU (N) (kg)	Bearing No. Size Reference	
da		db		dc	dd	Da	Db		ra	rb			
min	max	max	min	min	min	max	max	min	max	max			
25	-	-	-	32	42	43	42	1	0.6	-0.108	-0.108	N204	NF204
30	-	-	-	37	47	48	47	1	0.6	-0.132	-0.132	N205	NF205
35	-	-	-	44	57	58	56	1	0.6	-0.206	-0.206	N206	NF206
41.5	-	-	-	50	65.5	68	64	1	0.6	-0.293	-0.293	N207	NF207
46.5	-	-	-	56	73.5	73.5	72	1	1	-0.374	-0.374	N208	NF208
51.5	-	-	-	61	78.5	78.5	77	1	1	-0.427	-0.427	N209	NF209
56.5	-	-	-	67	83.5	83.5	82	1	1	0.479	0.479	N210	NF210
63	-	-	-	73	92	93.5	91	1.5	1	-0.633	-0.633	N211	NF211
68	-	-	-	80	102	102	100	1.5	1.5	-0.823	-0.823	N212	NF212
73	-	-	-	87	112	112	108	1.5	1.5	-1.05	-1.05	N213	NF213
31.5	-	-	-	40	55.5	55.5	55	1	1	-0.235	-0.235	N305	NF305
36.5	-	-	-	48	65.5	65.5	64	1	1	-0.353	-0.353	N306	NF306
43	-	-	-	53	72	73.5	71	1.5	1	-0.477	-0.477	N307	NF307
48	-	-	-	60	82	82	80	1.5	1.5	-0.646	-0.646	N308	NF308
53	-	-	-	66	92	92	89	1.5	1.5	-0.865	-0.865	N309	NF309
59	-	-	-	73	101	101	98	2	2	-1.15	-1.15	N310	NF310
64	-	-	-	80	111	111	107	2	2	-1.44	-1.44	N311	NF311
71	-	-	-	86	119	119	116	2	2	-1.83	-1.83	N312	NF312
76	-	-	-	93	129	129	125	2	2	-2.19	-2.19	N313	NF313
81	-	-	-	100	139	139	134	2	2	2.73	2.73	N314	-
86	-	-	-	106	149	149	143	2	2	3.19	3.19	N315	-
91	-	-	-	114	159	159	151	2	2	3.83	3.83	N316	-
98	-	-	-	119	167	167	160	2.5	2.5	4.52	4.52	N317	

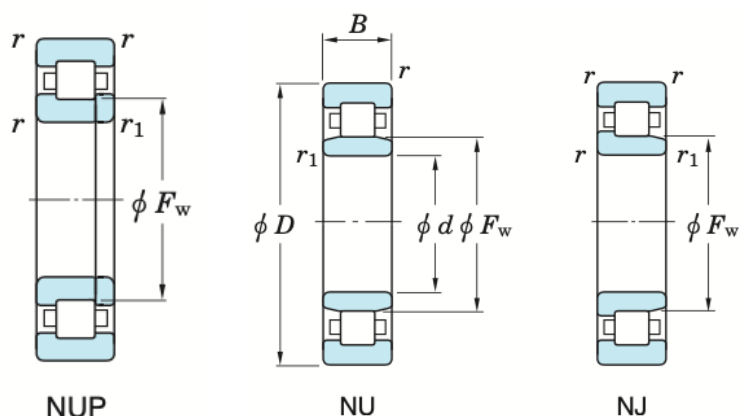


Boundary dimensions (mm)							Bearing No.		
d	D	B	r min	r1 min	Fw	Ew	NU	NJ	NUP
20	47	14	1	0.6	26.5	-	NU204R	NJ204R	NUP204R
	47	18	1	0.6	26.5	-	NU2204R	NJ2204R	NUP2204R
	52	15	1.1	0.6	26.5	-	NU304	NJ304	NUP304
25	47	12	0.6	0.3	30.5	-	NU1005	-	NUP1005
	52	15	1	0.6	31.5	-	NU205R	NJ205R	NUP205R
	52	15	1	0.6	31.5	-	NU205R	NJ205R	NUP205R
	52	18	1	0.6	32	-	NU2205	NJ2205	NUP2205
	62	24	1.1	1.1	35	-	NU2305	NJ2305	NUP2305
	62	17	1.1	1.1	34	-	NU305R	NJ305R	NUP305R
30	55	13	1	0.6	36.5	-	NU1006	-	NUP1006
	62	16	1	0.6	37.5	-	NU206R	NJ206R	NUP206R
	62	16	1	0.6	37.5	-	NU206R	NJ206R	NUP206R
	62	20	1	0.6	38.5	-	NU2206	NJ2206	NUP2206
	72	27	1.1	1.1	42	62	NU2306	NJ2306	NUP2306
	72	19	1.1	1.1	-	-	NU306	NJ306	-
35	62	14	1	0.6	42	-	NU1007	-	NUP1007
	72	17	1.1	0.6	44	-	NU207R	NJ207R	NUP207R
	72	17	1.1	0.6	44	-	NU207R	NJ207R	NUP207R
	72	23	1.1	0.6	43.8	-	NU2207	NJ2207	NUP2207
	80	31	1.5	1.1	46.2	68.2	NU2307	NJ2307	NUP2307
	80	21	1.5	1.1	-	-	NU307	NJ307	-
40	68	15	1	0.6	47	-	NU1008	-	NUP1008
	80	18	1.1	1.1	49.5	-	NU208R	NJ208R	NUP208R
	80	18	1.1	1.1	49.5	-	NU208R	NJ208R	NUP208R
	90	33	1.5	1.5	53.5	-	NU2308	NJ2308	NUP2308
	80	18	1.1	1.1	49.5	-	NU208R	NJ208R	NUP208R
	80	23	1.1	1.1	50	77.5	NU2208	NJ2208	NUP2208
	90	23	1.5	1.5	-	-	NU308	NJ308	-
45	75	16	1	0.6	52.5	-	NU1009	-	NUP1009
	85	19	1.1	1.1	54.5	-	NU209R	NJ209R	NUP209R
	85	19	1.1	1.1	54.5	-	NU209R	NJ209R	NUP209R
	85	23	1.1	1.1	55	-	NU2209	NJ2209	NUP2209
	100	36	1.5	1.5	58.5	-	NU2309	NJ2309	NUP2309
	85	19	1.1	1.1	54.5	86.5	NU209R	NJ209R	NUP209R
	100	25	1.5	1.5	-	-	NU309	NJ309	-
50	80	16	1	0.6	57.5	-	NU1010	-	NUP1010
	90	20	1.1	1.1	59.5	-	NU210R	NJ210R	NUP210R
	90	20	1.1	1.1	59.5	-	NU210R	NJ210R	NUP210R
	110	40	2	2	65	-	NU2310	NJ2310	NUP2310
	90	20	1.1	1.1	59.5	-	NU210R	NJ210R	NUP210R
	90	23	1.1	1.1	60.4	95	NU2210	NJ2210	NUP2210
	110	27	2	2	-	-	NU310	NJ310	-

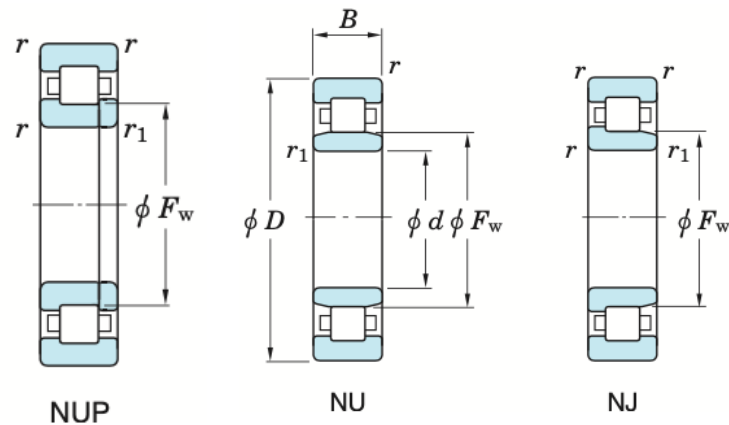
Cylindrical Bearings

NU/NJ/NUP Series

Koyo



Basic Load Ratings		Fatigue Load	Limiting Speeds		Bearing No.		
Cr	Cor	Cu	Grease Lub	Oil Lub	NU	NJ	NUP
32.2	22.6	3.05	15 000	18 000	NU204R	NJ204R	NUP204R
38.3	28.3	3.60	13 000	18 000	NU2204R	NJ2204R	NUP2204R
28.9	19.2	2.50	12 000	16 000	NU304	NJ304	NUP304
17.8	13.1	2.25	15 000	18 000	NU1005	-	NUP1005
36.7	27.7	3.75	13 000	15 000	NU205R	NJ205R	NUP205R
36.7	27.7	3.75	13 000	15 000	NU205R	NJ205R	NUP205R
29.6	22.8	3.05	12 000	16 000	NU2205	NJ2205	NUP2205
53.4	40.9	5.7	9 100	14 000	NU2305	NJ2305	NUP2305
51.9	37.4	4.85	10 000	14 000	NU305R	NJ305R	NUP305R
23.4	18.4	2.05	13 000	15 000	NU1006	-	NUP1006
48.9	37.4	5.25	11 000	13 000	NU206R	NJ206R	NUP206R
48.9	37.4	5.25	11 000	13 000	NU206R	NJ206R	NUP206R
41	33.1	4.2	9 800	13 000	NU2206	NJ2206	NUP2206
64.3	50.8	7.15	7 700	12 000	NU2306	NJ2306	NUP2306
48.3	35.2	5.00	8 700	12 000	NU306	NJ306	-
28.3	23.2	2.65	11 000	13 000	NU1007	-	NUP1007
62.9	50.2	6.55	9 300	11 000	NU207R	NJ207R	NUP207R
62.9	50.2	6.55	10 300	12 000	NU207R	NJ207R	NUP207R
61.3	51.2	7.15	8 500	11 000	NU2207	NJ2207	NUP2207
75.5	65.7	7.95	7 000	10 000	NU2307	NJ2307	NUP2307
62.0	46.9	6.20	7 900	10 000	NU307	NJ307	-
31.2	25.7	3.1	10 000	12 000	NU1008	-	NUP1008
69.6	55.4	7.35	8 300	9 900	NU208R	NJ208R	NUP208R
69.6	55.4	7.35	9 300	10 900	NU208R	NJ208R	NUP208R
103	88	11.6	6 100	9 100	NU2308	NJ2308	NUP2308
69.6	55.4	7.35	8 300	9 900	NU208R	NJ208R	NUP208R
72.8	62	8.75	7 500	10 000	NU2208	NJ2208	NUP2208
73.4	56.9	7.85	6 900	9 100	NU308	NJ308	-
38.9	33.8	4.3	9 200	11 000	NU1009	-	NUP1009
78.9	66.4	9.05	7 600	9 200	NU209R	NJ209R	NUP209R
78.9	66.4	9.05	8 600	10 200	NU209R	NJ209R	NUP209R
76.6	67.8	9.6	6 900	9 200	NU2209	NJ2209	NUP2209
124	113	14.3	5 500	8 300	NU2309	NJ2309	NUP2309
78.9	66.4	9.05	7 600	9 200	NU209R	NJ209R	NUP209R
98.5	77.5	11.3	6 200	8 300	NU309	NJ309	-
42.2	36.8	4.8	8 400	9 900	NU1010	-	NUP1010
82.5	71.9	9.85	7 100	8 500	NU210R	NJ210R	NUP210R
82.5	71.9	9.85	8 100	9 500	NU210R	NJ210R	NUP210R
151	142	20.1	5 000	7 500	NU2310	NJ2310	NUP2310
82.5	71.9	9.85	7 100	8 500	NU210R	NJ210R	NUP210R
80.3	73.6	10.4	6 400	8 500	NU2210	NJ2210	NUP2210
109	93.4	11.7	5 600	7 500	NU310	NJ310	-

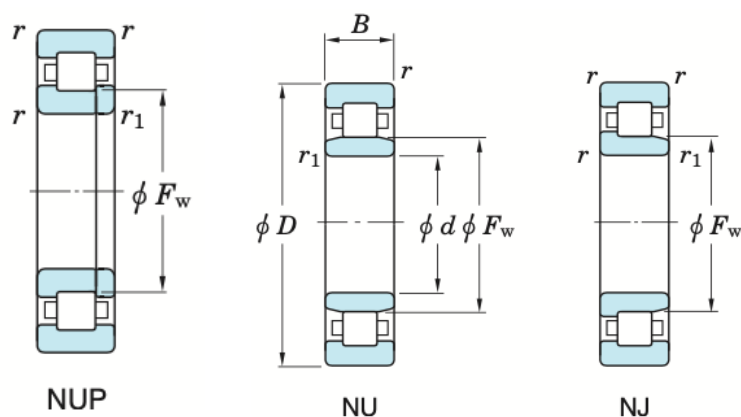


Boundary dimensions (mm)							Bearing No.		
d	D	B	r min	r1 min	Fw	Ew	NU	NJ	NUP
55	90	18	1.1	1	64.5	-	NU1011	-	NUP1011
	100	25	1.5	1.1	66.5	-	NU2211	NJ2211	NUP2211
	100	21	1.5	1.1	66	-	NU211R	NJ211R	NUP211R
	100	21	1.5	1.1	66	-	NU211R	NJ211R	NUP211R
	120	43	2	2	70.5	-	NU2311	NJ2311	NUP2311
	100	21	1.5	1.1	66	-	NU211R	NJ211R	NUP211R
	120	29	2	2	70.5	-	NU311R	NJ311R	NUP311R
60	95	18	1.1	1	69.5	-	NU1012	-	NUP1012
	110	22	1.5	1.5	72	-	NU212R	NJ212R	NUP212R
	110	22	1.5	1.5	72	-	NU212R	NJ212R	NUP212R
	110	22	1.5	1.5	72	-	NU212R	NJ212R	NUP212R
	110	28	1.5	1.5	73.5	-	NU2212	NJ2212	NUP2212
	130	46	2.1	2.1	77	-	NU2312	NJ2312	NUP2312
	130	31	2.1	2.1	77	-	NU312R	NJ312R	NUP312R
65	100	18	1.1	1	74.5	-	NU1013	-	NUP1013
	140	48	2.1	2.1	83.5	-	NU2313	NJ2313	NUP2313
	120	23	1.5	1.5	78.5	-	NU213R	NJ213R	NUP213R
	120	31	1.5	1.5	79.6	-	NU2213	NJ2213	NUP2213
	140	33	2.1	2.1	-	121.5	NU313	NJ313	-
70	110	20	1.1	1	80	-	NU1014	-	NUP1014
	125	24	1.5	1.5	83.5	-	NU214R	NJ214R	NUP214R
	125	24	1.5	1.5	83.5	-	NU214R	NJ214R	NUP214R
	125	31	1.5	1.5	84.5	-	NU2214	NJ2214	NUP2214
	150	51	2.1	2.1	90	-	NU2314	NJ2314	NUP2314
	150	35	2.1	2.1	-	130	NU314	NJ314	-
75	115	20	1.1	1	85	-	NU1015	-	NUP1015
	130	25	1.5	1.5	88.5	-	NU215R	NJ215R	NUP215R
	130	25	1.5	1.5	88.5	-	NU215R	NJ215R	NUP215R
	130	31	1.5	1.5	88.5	-	NU2215	NJ2215	NUP2215
	160	37	2.1	2.1	-	139.5	NU315	NJ315	-
80	140	33	2	2	95.3	-	NU2216	NJ2216	NUP2216
	140	26	2	2	95.3	-	NU216	NJ216	NUP216
	170	39	2.1	2.1	-	147	NU316	-	-
85	150	36	2	2	101.8	-	NU2217	NJ2217	NUP2217
	150	28	2	2	100.5	-	NU217R	NJ217R	NUP217R
	180	41	3	2	-	156	NU317	-	-
90	160	40	2	2	107	-	NU2218	NJ2218	NUP2218
	160	30	2	2	107	-	NU218R	NJ218R	NUP218R

Cylindrical Bearings

NU/NJ/NUP Series

Koyo



Basic Load Ratings		Fatigue Load	Limiting Speeds		Bearing No.		
Cr	Cor	Cu	Grease Lub	Oil Lub	NU	NJ	NUP
47.1	43.8	5.75	7 600	8 900	NU1011	-	NUP1011
94.2	87.2	11.6	5 800	7 700	NU2211	NJ2211	NUP2211
108	98.7	14.2	6 400	7 700	NU211R	NJ211R	NUP211R
108	98.7	14.2	7 400	8 700	NU211R	NJ211R	NUP211R
185	162	24.6	4 500	6 800	NU2311	NJ2311	NUP2311
108	98.7	14.2	6 400	7 700	NU211R	NJ211R	NUP211R
172	143	19.8	5 100	6 700	NU311R	NJ311R	NUP311R
53	50	6.75	7 000	8 300	NU1012	-	NUP1012
122	107	15.7	5 800	6 900	NU212R	NJ212R	NUP212R
122	107	15.7	6 800	7 900	NU212R	NJ212R	NUP212R
122	107	15.7	7 800	8 900	NU212R	NJ212R	NUP212R
120	123	15.3	5 200	7 000	NU2212	NJ2212	NUP2212
211	188	29.4	4 200	6 300	NU2312	NJ2312	NUP2312
187	157	22.1	4 600	6 200	NU312R	NJ312R	NUP312R
54.4	52.9	7.15	6 600	7 800	NU1013	-	NUP1013
235	212	32.9	3 900	5 800	NU2313	NJ2313	NUP2313
134	119	16.1	5 300	6 400	NU213R	NJ213R	NUP213R
150	149	20.6	4 800	6 400	NU2213	NJ2213	NUP2213
169	139	19.2	4 300	5 800	NU313	NJ313	-
72.9	70.4	10.1	6 100	7 200	NU1014	-	NUP1014
148	137	19	5 000	6 000	NU214R	NJ214R	NUP214R
148	137	19	5 000	6 000	NU214R	NJ214R	NUP214R
149	151	20.8	4 600	6 100	NU2214	NJ2214	NUP2214
279	262	39.3	3 600	5 400	NU2314	NJ2314	NUP2314
198	168	23.3	4 000	5 400	NU314	NJ314	-
80	78.1	10.2	5 700	6 800	NU1015	-	NUP1015
163	156	21.9	4 800	5 700	NU215R	NJ215R	NUP215R
163	156	21.9	5 800	6 700	NU215R	NJ215R	NUP215R
162	172	22.3	4 300	5 800	NU2215	NJ2215	NUP2215
224	205	28.4	3 800	5 000	NU315	NJ315	-
184	186	27.8	4 000	5 400	NU2216	NJ2216	NUP2216
174	167	23	4 400	5 300	NU216R	NJ216R	NUP216R
238	207	30.7	3 500	4 700	NU316	-	-
212	218	31.6	3 800	5 000	NU2217	NJ2217	NUP2217
209	199	26.3	4 200	5 000	NU217R	NJ217R	NUP217R
281	247	35.6	3 300	4 500	NU317	-	-
259	265	38.9	3 500	4 700	NU2218	NJ2218	NUP2218
227	217	28.7	3 900	4 700	NU218R	NJ218R	NUP218R

Also Stocking

NU222/KOYO

NU2315/KOYO

NU2318/KOYO

Also Stocking

NUP2213/KOYO

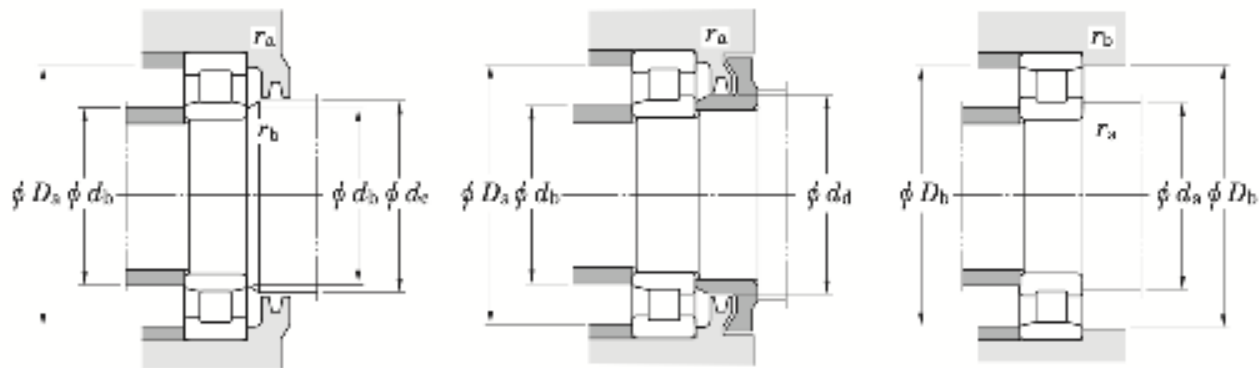
NUP2215/KOYO

NUP313/KOYO

Also Stocking

NUP314/KOYO

NUP315/KOYO

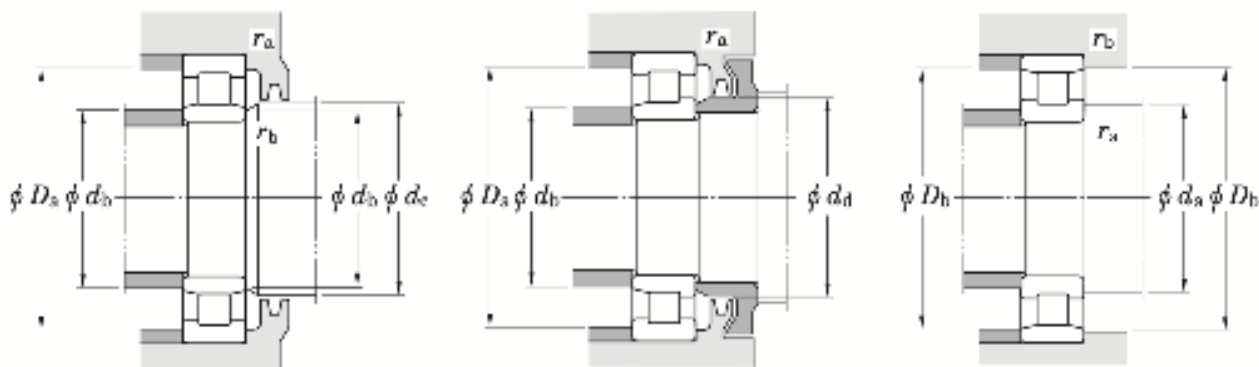


Mounting Dimensions								Mass NU (N) (kg)	Bearing No.		
da	db		dc	dd	Da	ra	rb		NU	NJ	NUP
min	max	min	min	min	max	max	max				
25 25 26.5	24 24 -	26 26 33	29 29 45.5	32 32 48	42 42 45.5	1 1 1	0.6 0.6 0.6	0.112 0.112 0.147	NU204R NU204R NU304	NJ204R NJ204R NJ304	NUP204R NUP204R -
29 30 30 30 31.5 31.5	27 29 29 29 31.5 31.5	30 31 31 31 33 33	32 34 34 34 37 37	- 37 37 37 40 40	43 47 47 47 55.5 55.5	0.6 1 1 1 1 1	0.3 0.6 0.6 0.6 1 1	0.084 0.138 0.138 0.163 0.34 0.243	NU1005 NU205R NU205R NU205R NU2205 NU2305 NU305R	- NJ205R NJ205R NJ205R NJ2205 NJ2305 NJ305R	NUP1005 NUP205R NUP205R NUP205R NUP2205 NUP2305 NUP305R
35 35 35 35 36.5 36.5	34 34 34 34 36.5 -	35 37 37 37 40 -	38 40 40 40 44 -	- 44 44 44 48 48	50 57 57 57 65.5 65.5	1 1 1 1 1 1	0.6 0.6 0.6 0.6 1 1	0.121 0.209 0.209 0.262 0.5 0.353	NU1006 NU206R NU206R NU2206 NU2306 NU306	- NJ206R NJ206R NJ2206 NJ2306 NJ306	NUP1006 NUP206R NUP206R NUP2206 NUP2306 -
40 41.5 41.5 41.5 43 43	39 39 39 39 41.5 -	41 43 43 43 45 -	44 46 46 46 48 -	- 50 50 50 53 53	57 65.5 65.5 65.5 72 72	1 1 1 1 1.5 1.5	0.5 0.6 0.6 0.6 1 1	0.182 0.306 0.306 0.402 0.696 6.20	NU1007 NU207R NU207R NU2207 NU2307 NU307	- NJ207R NJ207R NJ2207 NJ2307 NJ307	NUP1007 NUP207R NUP207R NUP2207 NUP2307 -
45 46.5 46.5 48 46.5 46.5 48	44 46.5 46.5 48 46.5 46.5 -	46 49 49 51 49 49 -	49 52 52 55 52 52 -	- 56 56 60 56 56 60	63 73.5 73.5 82 73.5 73.5 82	1 1 1 1.5 1 1 1.5	0.6 1 1 1.5 1 1 1.5	0.223 0.384 0.384 0.956 0.384 0.49 0.646	NU1008 NU208R NU208R NU2308 NU208R NU2208 NU308	- NJ208R NJ208R NJ2308 NJ208R NJ2208 NJ308	NUP1008 NUP208R NUP208R NUP2308 NUP208R NUP2208 -
50 51.5 51.5 51.5 53 51.5 53	49 51.5 51.5 51.5 53 51.5 -	52 54 54 54 57 54 -	54 57 57 57 60 57 -	- 61 61 61 66 61 66	70 78.5 78.5 78.5 92 78.5 92	1 1 1 1 1.5 1 1.5	0.6 1 1 1 1.5 1 1.5	0.289 0.439 0.439 0.536 1.25 0.439 0.865	NU1009 NU209R NU209R NU2209 NU2309 NU209R NU309	- NJ209R NJ209R NJ2209 NJ2309 NJ209R NJ309	NUP1009 NUP209R NUP209R NUP2209 NUP2309 NUP209R -
55 56.5 56.5 59 56.5 56.5 59	54 56.5 56.5 59 56.5 56.5 -	57 58 58 63 58 58 -	59 62 62 67 62 62 -	- 67 67 73 67 67 73	75 83.5 83.5 101 83.5 83.5 101	1 1 1 2 1 1 2	0.6 1 1 2 1 1 2	0.306 0.497 0.497 1.69 0.497 0.58 1.15	NU1010 NU210R NU210R NU2310 NU210R NU2210 NU310	- NJ210R NJ210R NJ2310 NJ210R NJ2210 NJ310	NUP1010 NUP210R NUP210R NUP2310 NUP210R NUP2210 -

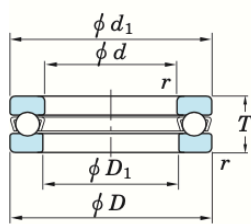
Cylindrical Bearings

NU/NJ/NUP Series

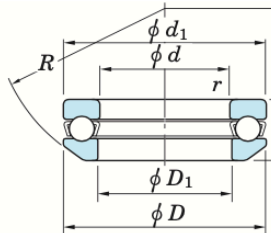
Koyo



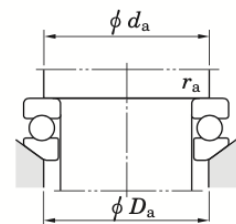
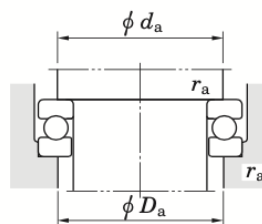
Mounting Dimensions								Mass NU (N) (kg)	Bearing No.		
da	db		dc	dd	Da	ra	rb		NU	NJ	NUP
min	max	min	min	min	max	max	max				
61.5	60	63	66	-	83.5	1	1	0.445	NU1011	-	NUP1011
63	61.5	65	68	73	92	1.5	1	0.78	NU2211	NJ2211	NUP2211
63	61.5	65	68	73	92	1.5	1	0.65	NU211R	NJ211R	NUP211R
63	61.5	65	68	73	92	1.5	1	0.65	NU211R	NJ211R	NUP211R
64	64	69	72	80	111	2	2	2.1	NU2311	NJ2311	NUP2311
63	61.5	65	68	73	92	1.5	1	0.65	NU211R	NJ211R	NUP211R
64	64	69	72	80	111	2	2	1.5	NU311R	NJ311R	NUP311R
66.5	65	68	71	75	88.5	1	1	0.477	NU1012	-	NUP1012
68	68	71	75	80	102	1.5	1.5	0.83	NU212R	NJ212R	NUP212R
68	68	71	75	80	102	1.5	1.5	0.83	NU212R	NJ212R	NUP212R
68	68	71	75	80	102	1.5	1.5	0.83	NU212R	NJ212R	NUP212R
68	68	71	75	80	102	1.5	1.5	1.07	NU2212	NJ2212	NUP2212
71	71	75	79	86	119	2	2	2.69	NU2312	NJ2312	NUP2312
71	71	75	79	86	119	2	2	1.87	NU312R	NJ312R	NUP312R
71.5	70	73	76	-	93.5	1	1	0.506	NU1013	-	NUP1013
76	76	81	85	93	129	2	2	3.25	NU2313	NJ2313	NUP2313
73	73	77	81	87	112	1.5	1.5	1.05	NU213R	NJ213R	NUP213R
73	73	77	81	87	112	1.5	1.5	1.43	NU2213	NJ2213	NUP2213
76	-	-	-	93	129	2	2	2.19	NU313	NJ313	-
76.5	75	78	82	-	103.5	1	1	0.702	NU1014	-	NUP1014
78	78	82	86	92	117	1.5	1.5	1.16	NU214R	NJ214R	NUP214R
78	78	82	86	92	117	1.5	1.5	1.16	NU214R	NJ214R	NUP214R
78	78	82	86	92	117	1.5	1.5	1.52	NU2214	NJ2214	NUP2214
81	81	87	92	100	139	2	2	3.97	NU2314	NJ2314	NUP2314
81	-	-	-	106	149	2	2	3.19	NU314	NJ314	-
81.5	80	83	87	-	108.5	1	1	0.735	NU1015	-	NUP1015
83	83	87	90	96	122	1.5	1.5	1.29	NU215R	NJ215R	NUP215R
83	83	87	90	96	122	1.5	1.5	1.29	NU215R	NJ215R	NUP215R
83	83	87	90	96	122	1.5	1.5	1.57	NU2215	NJ2215	NUP2215
86	-	-	-	106	149	2	2	3.19	NU15	NJ315	-
89	89	94	97	104	131	2	2	1.96	NU2216	NJ2216	NUP2216
89	89	94	97	104	131	2	2	1.56	NU216R	NJ216R	NUP216R
91	-	-	-	114	159	2	2	3.83	NU316	-	-
94	94	99	104	110	141	2	2	2.5	NU2217	NJ2217	NUP2217
94	94	99	104	110	141	2	2	1.94	NU217R	NJ217R	NUP217R
98	-	-	-	119	167	2.5	2.5	4.52	NU317	-	-
99	99	105	109	116	151	2	2	3.1	NU2218	NJ2218	NUP2218
99	99	105	109	116	151	2	2	2.38	NU218R	NJ218R	NUP218R



With flat back faces



With spherical back face

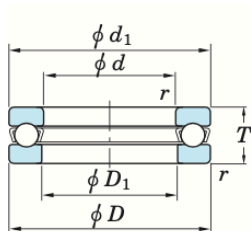


Boundary dimensions (mm)						Basic Load ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.	
d	D	T	T1	T2	r (min)	Cr	Cor	Cu	Grease	Oil	w/ Flat back faces	w/ Spherical back face
10	24	9	-	-	13.25	12	11	1	1	26	51100 51200	- 53200
12	26	9	20	47	15.25	14	12	1	1	33.8	51101 51201	- 53201
15	28	9	25	52	16.25	15	13	1	1	39.3	51102 51202	- 53202
17	30	9	30	62	17.25	16	14	1	1	51.8	51103 51203	- 53203
20	35	10	35	72	18.25	17	15	1.5	1.5	68.8	51104 51204	- 53204
25	52	18	19.8	22	1	44.7	61.4	2.75	3 100	4 800	51305	53305
	60	24	26.4	29	1	69.5	89.4	4.05	2 600	4 000	51405	53405
	42	11	-	-	0.6	24.4	37.2	1.7	4 400	6 800	51105	-
30	60	21	22.6	25	1	53.5	78.7	3.55	2 700	4 200	51306	53306
	70	28	30.1	33	1	91	126	5.7	2 200	3 400	51406	53406
	47	11	-	-	0.6	25.5	42.2	1.9	4 300	6 600	51106	-
35	80	32	34	37	1.1	109	155	7	1 900	2 900	51407	53407
	52	12	-	-	0.6	25.5	47.2	2	3 900	6 000	51107	-
40	90	36	38.2	42	1.1	141	205	9.25	1 700	2 600	51408	53408
	60	13	-	-	0.6	33.6	62.8	2.85	3 400	5 300	51108	-
45	85	28	30.1	33	1	100	163	7.4	1 900	3 000	51309	53309
	100	39	42.4	46	1.1	162	242	10.9	1 500	2 300	51409	53409
	65	14	-	-	0.6	34.8	69.1	3.1	3 200	5 000	51109	-
50	95	31	34.3	37	1.1	121	202	9.1	1 800	2 700	51310	53310
	110	43	45.6	50	1.5	185	283	12.8	1 400	2 100	51410	53410
	70	14	-	-	0.6	35.9	75.4	3.4	3 100	4 800	51110	-
55	105	35	39.3	42	1.1	149	246	11.1	1 600	2 400	51311	53311
	120	48	50.5	55	1.5	223	359	16.2	1 200	1 900	51411	53411
	78	16	-	-	0.6	43.5	93.1	4.2	2 800	4 300	51111	-
60	85	17	-	-	1	51.8	113	5.1	2 600	4 000	51112	-
75	110	27	28.3	32	1	96.7	209	9.4	1 800	2 700	51215	53215
80	115	28	29.5	33	1	98.1	218	9.85	1 700	2 600	51216	53216
90	135	35	38.5	42	1.1	146	326	13.9	1 400	2 100	51218	53218
110	145	25	-	-	1	109	288	11.5	1 600	2 400	51122	-
120	155	25	-	-	1	111	305	11.9	1 500	2 300	51124	-
130	170	30	-	-	1	130	350	13	1 300	2 000	51126	-

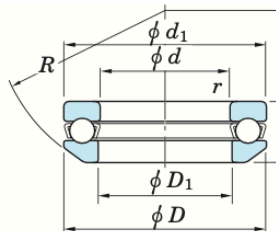
Thrust Bearings

51100 - 51400 Series

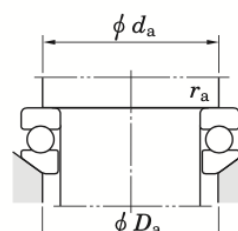
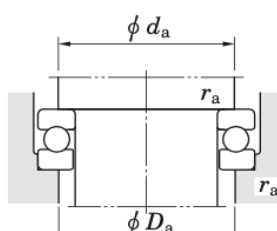
Koyo



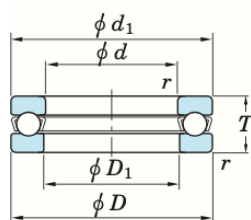
With flat back faces



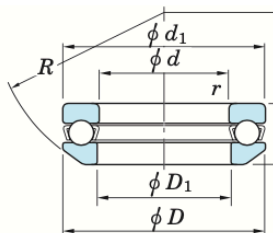
With spherical back face



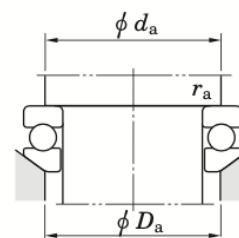
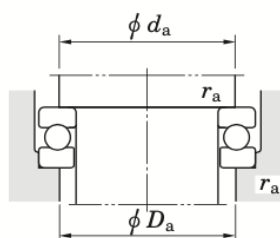
Mounting Dimensions							Mounting Dimensions (mm)			Mass (Kg)		
d1	D1 min	D2	D3	A	R	C	da min	Da max	ra max	w/ Flat back faces	w/ spherical back face	w/ aligning seat race
10 000	14 000	30203JR	-	2DB	10.1	22.5	23	34.5	33	37	2	2
8 700	12 000	30204JR	-	2DB	11.8	25.5	27	41.5	39	44	2	3
7 800	10 000	30205JR	-	3CC	12.9	30.5	31	46.5	44	48	2	3
6 500	8 700	30206JR	-	3DB	14.1	35.5	37	56.5	53	57	2	3
35	21	-	-	-	-	-	29	26	0.3	0.04	-	-
52	27	38	55	21	45	6	41	36	1	0.18	0.18	0.224
60	27	42	62	19	50	8	46	39	1	0.34	0.35	0.442
42	26	-	-	-	-	-	35	32	0.6	0.059	-	-
60	32	45	62	22	50	7	48	42	1	0.27	0.27	0.326
70	32	50	75	20	56	9	54	46	1	0.53	0.53	0.66
47	32	-	-	-	-	-	40	37	0.6	0.068	-	-
80	37	58	85	23	64	10	62	53	1	0.79	0.79	0.96
52	37	-	-	-	-	-	45	42	0.6	0.09	-	-
90	42	65	95	26	72	12	70	60	1	1.14	1.12	1.37
60	42	-	-	-	-	-	52	48	0.6	0.12	-	-
85	47	65	90	25	64	10	69	61	1	0.69	0.68	0.85
100	47	72	105	29	80	12.5	78	67	1	1.47	1.5	1.82
65	47	-	-	-	-	-	57	53	0.6	0.15	-	-
95	52	72	100	28	72	11	77	68	1	1	1.01	1.24
110	52	80	115	35	90	14	86	74	1.5	1.99	1.97	2.38
70	52	-	-	-	-	-	62	58	0.6	0.16	-	-
105	57	80	110	30	80	11.5	85	75	1	1.34	1.41	1.69
120	57	88	125	28	90	15.5	94	81	1.5	2.64	2.57	3.1
78	57	-	-	-	-	-	69	64	0.6	0.24	-	-
85	62	-	-	-	-	-	75	70	1	0.29	-	-
110	77	92	115	49	90	9.5	96	89	1	0.86	0.85	1.06
115	82	98	120	46	90	10	101	94	1	0.95	0.93	1.15
135	93	110	140	45	100	13.5	117	108	1	1.77	1.77	2.19
145	112	-	-	-	-	-	131	124	1	1.08	-	-
155	122	-	-	-	-	-	141	134	1	1.16	-	-
170	132	-	-	-	-	-	154	146	1	1.87	-	-



With flat
back faces



With spherical
back face

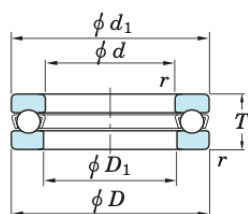


Constant	Axial Load Factors		Mass	Bearing No.
e	Y1	Y2	(kg)	Size Reference
0.35	1.74	0.96	0.081	30203JR
0.35	1.74	0.96	0.127	51101
0.37	1.6	0.88	0.156	51102
0.37	1.6	0.88	0.236	51103

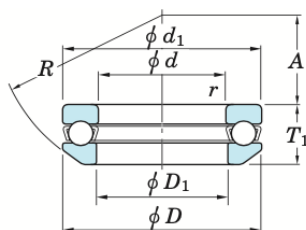
Thrust Bearings

51100 - 51400 Series

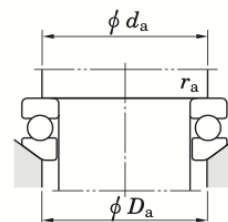
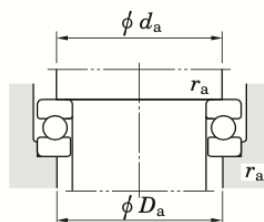
Koyo



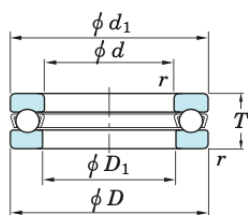
With flat back faces



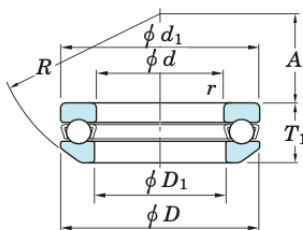
With spherical back face



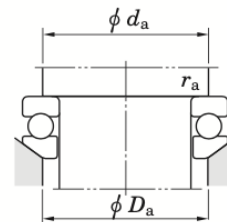
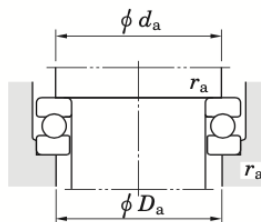
Boundary dimensions (mm)						Basic Load ratings (kN)		Fatigue Load Limit (kN)	Limiting Speeds		Bearing No.	
d	D	T	T1	T2	r (min)	Cr	Cor	Cu	Grease	Oil	w/ Flat back faces	w/ Spherical back face
35	68	24	-	-	1	69.3	105	4.75	2 400	3 700	51307	-
40	78	26	-	-	1	86.6	135	6.05	2 100	3 300	51308	-
55	90	25	-	-	1	86.7	159	7.20	2 100	3 200	51211	-
60	95	26	-	-	1	92.0	179	8.05	1 900	3 000	51212	-
	110	35	-	-	1.1	154	267	12.1	1 500	2 300	51312	-
65	90	18	-	-	1	52.1	117	5.30	2 400	3 700	51113	-
	100	27	-	-	1	93.6	189	8.50	1 900	2 900	51213	-
	115	36	-	-	1.1	159	287	13.0	1 400	2 200	51313	-
70	95	18	-	-	1	53.8	127	5.70	2 300	3 600	51114	-
	105	27	-	-	1	95.2	199	8.95	1 800	2 800	51214	-
	125	140	-	-	1.1	167	291	13.1	1 300	2 000	51314	-
75	100	19	-	-	1	55.5	136	6.15	2 200	3 400	51115	-
	135	44	-	-	1.5	192	339	15.0	1 200	1 900	51315	-
80	105	19	-	-	1	55.8	141	6.35	2 100	3 300	51116	-
	140	44	-	-	1.5	200	368	15.8	1 200	1 800	51316	-
85	110	19	-	-	1	57.4	150	6.80	2 100	3 200	51117	-
	125	31	-	-	1	119	264	11.6	1 500	2 300	51217	-
	150	49	-	-	1.5	232	419	17.5	1 100	1 700	51317	-
90	120	22	-	-	1	74.6	190	8.40	1 900	2 900	51118	-
	155	50	-	-	1.5	242	454	18.5	1 000	1 600	51318	-
100	135	25	-	-	1	106	268	11.2	1 600	2 500	51120	-
	150	38	-	-	1.1	183	410	16.6	1 200	1 900	51220	-



With flat back faces



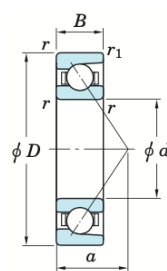
With spherical back face



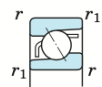
Mounting Dimensions							Mounting Dimensions (mm)			Mass (Kg)		
d1	D1 min	D2	D3	A	R	C	da min	Da max	ra max	w/ Flat back faces	w/ spherical back face	w/ aligning seat race
68	37	-	-	-	-	-	55	48	1	0.390	-	-
78	42	-	-	-	-	-	63	55	1	0.550	-	-
90	57	-	-	-	-	-	76	69	1	0.610	-	-
95	62	-	-	-	-	-	81	74	1	0.690	-	-
100	62	-	-	-	-	-	90	80	1	1.43	-	-
90	67	-	-	-	-	-	80	75	1	0.340	-	-
100	67	-	-	-	-	-	86	79	1	0.770	-	-
115	67	-	-	-	-	-	95	85	1	1.57	-	-
95	72	-	-	-	-	-	85	80	1	0.360	-	-
105	72	-	-	-	-	-	91	84	1	0.810	-	-
125	72	-	-	-	-	-	103	92	1	2.06	-	-
100	77	-	-	-	-	-	90	85	1	0.420	-	-
135	77	-	-	-	-	-	111	99	1.5	2.68	-	-
105	82	-	-	-	-	-	95	90	1	0.430	-	-
140	82	-	-	-	-	-	116	104	1.5	2.82	-	-
110	87	-	-	-	-	-	100	95	1	0.460	-	-
125	88	-	-	-	-	-	109	101	1	1.29	-	-
150	88	-	-	-	-	-	124	111	1.5	3.66	-	-
120	92	-	-	-	-	-	108	102	1	0.680	-	-
155	93	-	-	-	-	-	129	116	1.5	3.88	-	-
135	102	-	-	-	-	-	121	114	1	0.990	-	-
150	103	-	-	-	-	-	130	120	1	2.36	-	-

Angular Contact Bearings 7000 Series

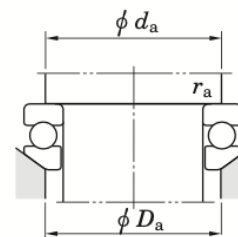
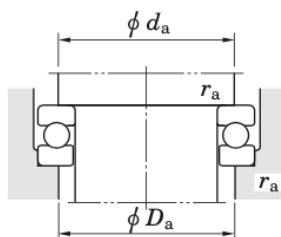
Koyo



With machined cage

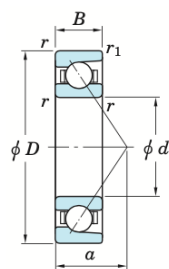


With pressed cage



Boundary dimentions (mm)					Basic Load ratings (kN)				Fatigue Load Limit (kN)		Bearing no.2
					w/ Machine caged		w/ Pressed cage		Cu		
d	D	B	r (min)	r 1(min)	Cr	Cor	Cr	Cor	w/ Machine caged	w/ Pressed cage	
10	26	8	0.3	0.15	6.25	2.35	-	-	0.12	-	7000
12	28	8	0.3	0.15	6.75	2.75	-	-	0.14	- 32	7001 7201B
15	32	9	0.3	0.15	7.65	3.45	-	-	0.18	-	7002
	35	11	0.6	0.3	9.3	3.95	9.3	3.95	0.26	0.26	7202B
	42	13	1	0.6	15.7	6.45	16.8	7.2	0.49	0.55	7302B
17	35	10	0.3	0.15	8.4	4.15	-	-	0.21	-	7003
	40	12	0.6	0.3	11.7	5.05	11.7	5.05	0.33	0.33	7203B
	47	14	1	0.6	17.3	7.3	18.5	8.1	0.51	0.57	7303B
20	42	12	0.6	0.3	12.9	6.1	-	-	0.39	-	7004
	47	14	1	0.6	16.6	7.7	17.6	8.4	0.5	0.55	7204B
	52	15	1.1	0.6	20.2	8.7	21.7	9.65	0.61	0.68	7304B
25	47	12	0.6	0.3	14.1	7.4	-	-	0.45	-	7005
	62	17	1.1	0.6	28.6	13.3	30.5	14.6	0.91	1	7305B
	52	15	1	0.6	17.5	8.7	18.4	9.4	0.53	0.58	7205B
30	55	13	1	0.6	18.2	10.1	-	-	0.61	-	7006
	62	16	1	0.6	24.3	12.5	25.6	13.6	0.77	0.84	7206B
	72	19	1.1	0.6	34.5	17.4	36.6	19	1.15	1.25	7306B
35	62	14	1	0.6	21.9	12.6	-	-	0.74	-	7007
	72	17	1.1	0.6	32	17	33.8	18.5	1.05	1.15	7207B
	80	21	1.5	1	40.6	20.2	45.8	24.3	1.3	1.6	7307B
40	80	18	1.1	0.6	38.2	21.3	40.2	23	1.3	1.4	7208B
	90	23	1.5	1	49.6	25.2	56	30.3	1.65	2	7308B
	68	15	1	0.6	23.4	14.6	-	-	0.83	-	7008
45	85	19	1.1	0.6	42.9	24.3	45.1	26.1	1.5	1.6	7209B
	100	25	1.5	1	63.2	34.1	67	37.2	2.2	2.4	7309B
	75	16	1	0.6	27.8	17.7	-	-	1	-	7009
50	90	20	1.1	0.6	44.6	26.7	46.7	28.6	1.55	1.7	7210B
	110	27	2	1	80.5	44.3	85.3	48.3	2.9	3.15	7310B
	80	16	1	0.6	29.5	20.1	-	-	1.1	-	7010
55	90	18	1.1	0.6	38.9	26.3	-	-	1.5	-	7011
	100	21	1.5	1	57.7	36.2	-	-	2.15	-	7211B
60	130	31	2.1	1.1	106	60.3	113	65.8	3.95	4.3	7312B
	95	18	1.1	0.6	39.9	28.1	-	-	1.55	-	7012
	110	22	1.5	1	69.9	44.6	-	-	2.60	-	7212B
65	100	18	1.1	0.6	42.1	31.4	-	-	1.7	-	7013
	120	23	1.5	1	79.5	52.6	-	-	3.10	-	7213B
70	110	20	1.1	0.6	53.3	39.4	-	-	2.15	-	7014
	125	24	1.5	1	86.4	57,8	-	-	3.40	-	7214B
75	130	25	1.5	1	93.6	63.3	-	-	3.65	-	7215B
80	140	26	2	1	101	69.3	-	-	3.80	-	7216B
85	150	28	2	1	116	81.1	-	-	4.35	-	7217B
90	140	24	1.5	1	81.5	63.3	-	-	3.25	-	7018
100	150	24	1.5	1	85.5	70.6	-	-	3.35	-	7020

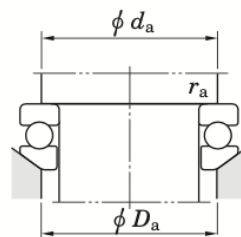
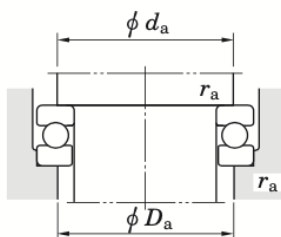
Every effort has been taken to ensure that the data listed in this catalogue is correct.
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With machined cage



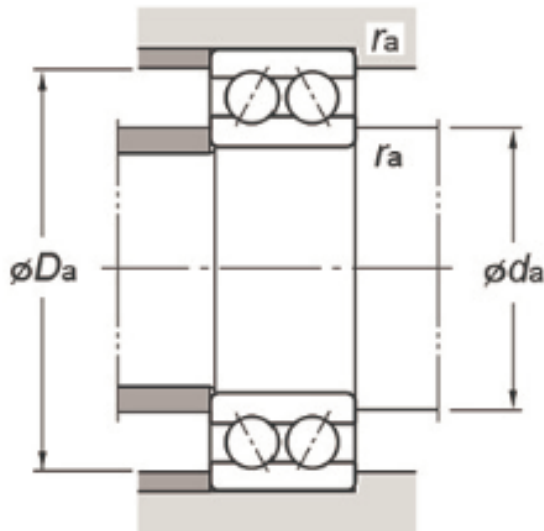
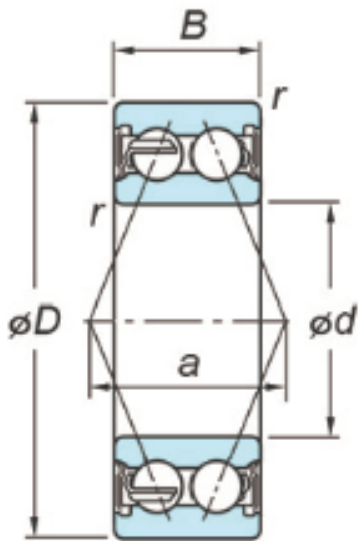
With pressed cage



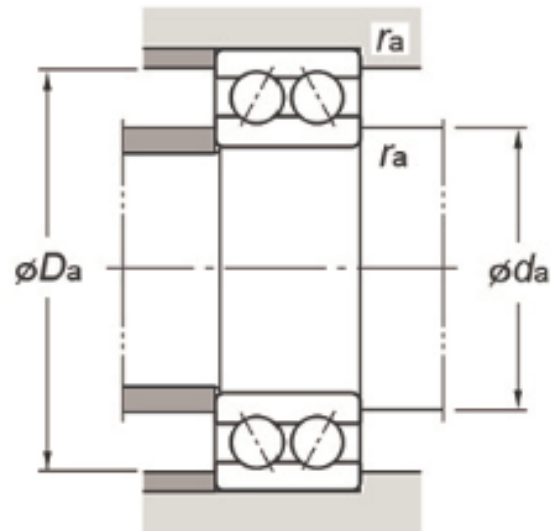
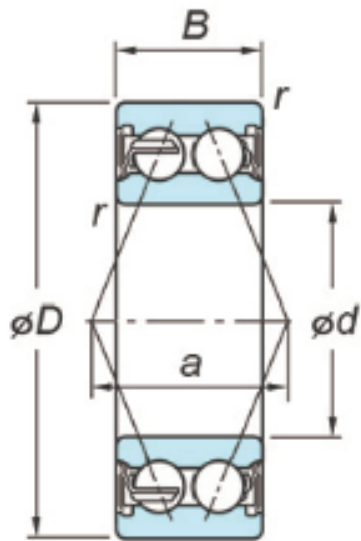
Fatigue Load Limit (kN)		Factor	Limiting Speeds		Bearing no.2	Load center (mm)	Mounting Dimensions			Mass (kg)
Cu		f0	Grease	Oil			da	Da	ra	
w/ Machine caged	w/ Pressed cage						min	max	max	
0.12	-	-	34 000	42 000	7000	9.1	12.5	23.5	0.3	0.021
0.14	-	-	29 000	37 000	7001	9.9	14.5	25.5	0.3	0.024
0.24	0.27	-	20 000	27 000	7201B	14.2	16.5	27.5	0.6	0.038
0.18	-	-	26 000	32 000	7002	11.3	17.5	29.5	0.3	0.035
0.26	0.26	-	18 000	24 000	7202B	16.2	19.5	30.5	0.6	0.048
0.49	0.55	-	20 000	25 000	7302B	15	20.5	36.5	1	0.088
0.21	-	-	23 000	28 000	7003	12.7	19.5	32.5	0.3	0.045
0.33	0.33	-	16 000	21 000	7203B	18.2	21.5	35.5	0.6	0.07
0.51	0.57	-	14 000	18 000	7303B	20.8	22.5	41.5	1	0.12
0.39	-	-	19 000	24 000	7004	15.1	24.5	37.5	0.6	0.079
0.5	0.55	-	13 000	17 000	7204B	21.5	25.5	41.5	1	0.112
0.61	0.68	-	13 000	17 000	7304B	22.6	27	45	1	0.15
0.45	-	-	17 000	21 000	7005	16.4	29.5	42.5	0.6	0.091
0.91	1	-	10 000	14 000	7305B	26.8	32	55	1	0.243
0.53	0.58	-	12 000	15 000	7205B	23.9	30.5	46.5	1	0.135
0.61	-	-	14 000	18 000	7006	18.8	35.5	49.5	1	0.133
0.77	0.84	-	9 600	13 000	7206B	27.6	35.5	56.5	1	0.208
1.15	1.25	-	8 700	12 000	7306B	31.3	37	65	1	0.362
0.74	-	-	12 000	15 000	7007	21.2	40.5	56.5	1	0.17
1.05	1.15	-	8 300	11 000	7207B	31.4	42	65	1	0.295
1.3	1.6	-	7 700	10 000	7307B	35	43.5	71.5	1.5	0.475
1.3	1.4	-	7 500	10 000	7208B	34.2	47	73	1	0.382
1.65	2	-	6 900	9 200	7308B	38.8	48.5	81.5	1.5	0.657
0.83	-	-	11 000	14 000	7008	23.2	45.5	62.5	1	0.21
1.5	1.6	-	7 000	9 400	7209B	36.4	52	78	1	0.43
2.2	2.4	-	6 200	8 200	7309B	43.1	53.5	91.5	1.5	0.875
1	-	-	10 000	12 000	7009	25.3	50.5	69.5	1	0.26
1.55	1.7	-	6 400	8 500	7210B	39.6	57	83	1	0.485
2.9	3.15	-	5 500	7 300	7310B	47.9	60	100	2	1.14
1.1	-	-	9 200	11 000	7010	26.9	55.5	74.5	1	0.29
1.5	-	-	8 300	10 000	7011	29.9	62	83	1	0.42
2.15	-	-	4 500	6 000	7211B	43.6	63.5	91.5	1.5	0.635
3.95	4.3	-	4 600	6 200	7312B	55.8	72	118	2	1.81
1.55	-	-	7 700	9 700	7012	31.4	67	88	1	0.45
2.60	-	-	4 000	5 500	7212B	47.5	68.5	101.5	1.5	0.820
1.7	-	-	7 200	9 000	7013	33	72	93	1	0.47
3.10	-	-	3 800	5 100	7213B	50.3	73.5	111.5	1.5	1.02
2.15	-	-	6 600	8 300	7014	36	77	103	1	0.66
3.40	-	-	3 600	4 800	7214B	52.9	78.5	116.5	1.5	1.12
3.65	-	-	3 400	4 600	7215B	55.5	83.5	121.5	1.5	1.23
3.80	-	-	3 200	4 300	7216B	59.2	90	130	2	1.50
4.35	-	-	3 000	4 000	7217B	63.3	95	140	2	1.87
3.25	-	-	5 100	6 400	7018	45.2	98.5	131.5	1.5	1.26
3.35	-	-	4 700	5 900	7020	48.1	108.5	141.5	1.5	1.37

Angular Contact Bearings

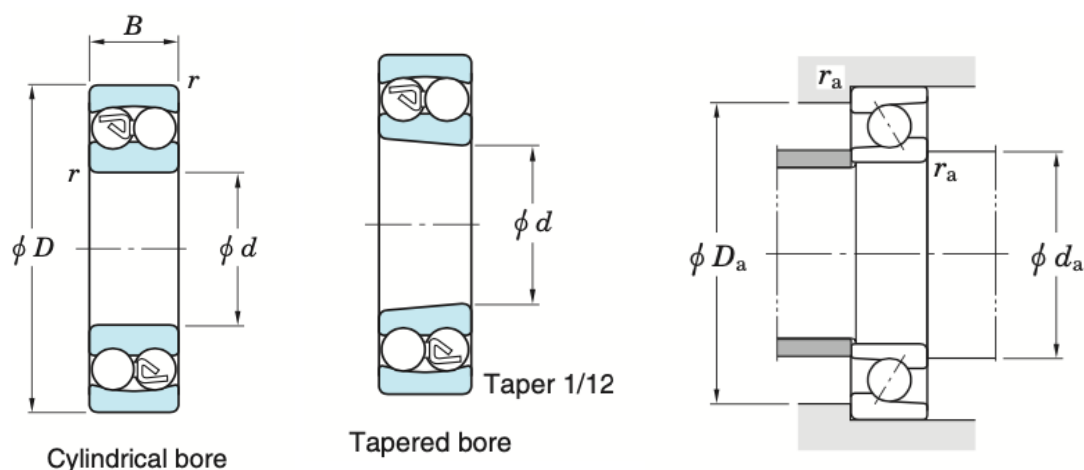
5300 Series



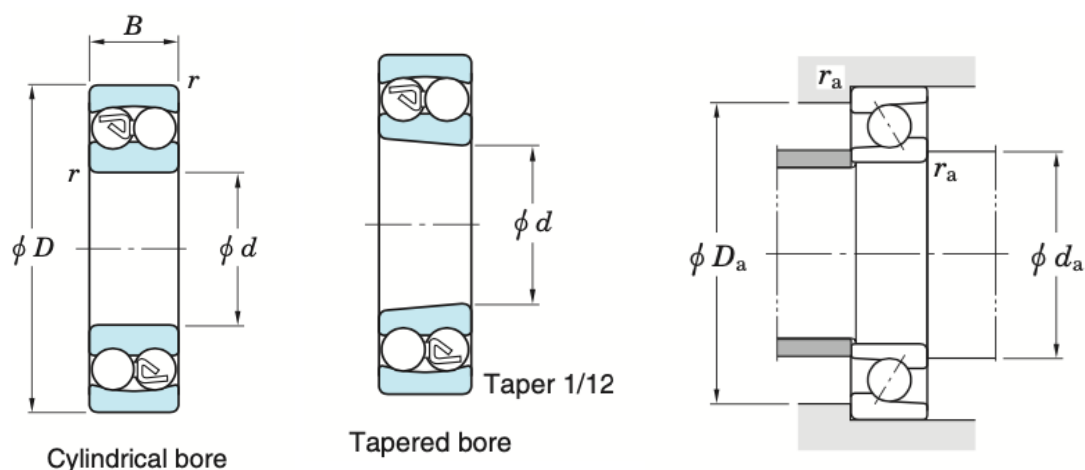
Boundary dimentions (mm)				Basic Load ratings (kN)				Fatigue Load Limit (kN)		Bearing no.2
				Open		Shielded/Sealed		Cu		
d	D	B	r (min)	Cr	Cor	Cr	Cor	Open	Shielded.Sealed	
45	100	39.7	1.5	93.8	55.7	86.1	51.5	2.90	2.65	5309-2RS
50	110	44.4	2	111	67.0	102	62.2	3.45	3.20	5310-ZZ



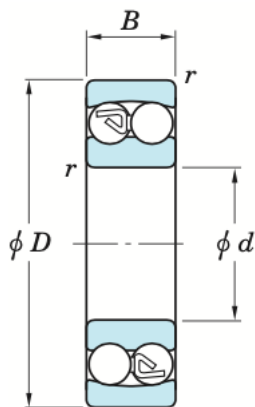
Limiting Speeds			Bearing no.2	Load center (mm)	Mounting Dimensions				Mass (kg)
					da		Da	ra	
Grease		Oil			min	max	max	max	
Open (Z,ZZ)	RS, 2RS	Open Z							
4 100	4 100	5 500	5309-2RS	51.0	53.5	58.2	91.5	1.5	1.42
3 600	3 600	4 800	5310-ZZ	56.6	60	64.4	100	2	1.93



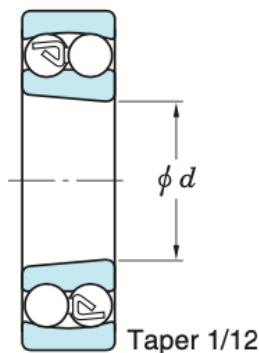
Boundary dimensions (mm)				Basic Load Ratings		Fatigue Load	Limiting Speeds		Bearing no.	
d	D	B	r min	Cr	Cor	Cu	Grease Lub	Oil Lub	Cylindrical Bore	Tapered Bore
25	62	17	1.1	18	5.05	0.32	9 900	12 000	1305	1305K
	52	15	1	12.1	3.3	0.21	12 000	14 000	1205	1205K
30	72	19	1.1	21.3	6.3	0.4	8 700	11 000	1306	1306K
	62	20	1	15.5	4.65	0.29	10 000	12 000	2206	2206K
	62	20	1	15.5	4.65	0.29	10 000	12 000	2206	2206K
	62	16	1	15.6	4.7	0.29	9 900	12 000	1206	1206K
35	80	31	1.5	39.5	11.1	0.71	7 100	9 800	2307	2307K
	72	23	1.1	21.6	6.65	0.42	8 500	10 000	2207	2207K
	80	21	1.5	25.1	7.95	0.49	7 600	9 300	1307	1307K
	72	17	1.1	15.8	5.15	0.32	8 500	10 000	1207	1207K
40	80	18	1.1	19.2	6.5	0.41	7 500	9 200	1208	1208K
	90	23	1.5	29.6	9.8	0.61	6 900	8 400	1308	1308K
	90	23	1.5	29.6	9.8	0.61	6 900	8 400	1308	1308K
	80	23	1.1	22.4	7.35	0.46	7 600	9 300	2208	2208K
	90	33	1.5	44.9	13.4	0.85	6 200	8 600	2308	2308K
	80	23	1.1	22.4	7.35	0.46	7 600	9 300	2208	2208K
45	85	19	1.1	21.8	7.35	0.46	7 000	8 500	1209	1209K
	100	25	1.5	38.1	12.9	0.8	6 100	7 500	1309	1309K
	85	23	1.1	23.3	8.15	0.51	7 000	8 500	2209	2209K
	85	23	1.1	23.3	8.15	0.51	7 000	8 500	2209	2209K
	100	36	1.5	54.4	16.6	1.05	5 600	7 700	2309	2309K
50	110	27	2	43.4	14.2	0.89	5 600	6 800	1310	1310K
	110	27	2	43.4	14.2	0.89	5 600	6 800	1310	1310K
	90	23	1.1	23.3	8.5	0.53	6 500	7 900	2210	2210K
	90	23	1.1	23.3	8.5	0.53	6 500	7 900	2210	2210K
	90	23	1.1	23.3	8.5	0.53	6 500	7 900	2210	2210K
	90	20	1.1	22.7	8.1	0.51	6 500	7 900	1210	1210K
55	120	29	2	51.3	18.1	1.1	5 000	6 200	1311	1311K
	100	25	1.5	26.5	9.95	0.62	5 800	7 100	2211	2211K
	100	25	1.5	26.5	9.95	0.62	5 800	7 100	2211	2211K
	100	21	1.5	26.8	10	0.63	5 800	7 100	1211	1211K
60	110	28	1.5	34.1	12.5	0.8	5 300	6 500	2212	2212K
	110	22	1.5	30.2	11.6	0.73	5 200	6 400	1212	1212K
65	120	23	1.5	31	12.4	0.79	4 800	5 800	1213	1213K
	120	31	1.5	43.6	16.4	1.05	4 900	5 900	2213	2213K
75	130	25	1.5	38.8	15.5	0.97	4 300	5 300	1215	1215K
80	140	26	2	39.7	16.9	1	4 000	4 900	1216	1216K
85	150	28	2	49.2	20.5	1.2	3 800	4 600	1217	1217K



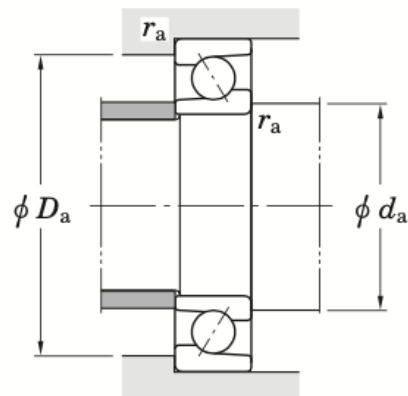
Mounting Dimensions			Constant	Axial load factors			Mass (kg)	
da	Da	ra	e	Y1	Y2	Y0	Cylindrical Bore	Tapered Bore
min	max	max						
31.5	55.5	1	0.27	2.31	3.57	2.42	0.257	0.252
30	47	1	0.28	2.28	3.52	2.39	0.141	0.138
36.5	65.5	1	0.26	2.4	3.72	2.52	0.387	0.381
35	57	1	0.35	1.79	2.77	1.87	0.26	0.254
35	57	1	0.35	1.79	2.77	1.87	0.26	0.254
35	57	1	0.25	2.55	3.94	2.67	0.22	0.216
43	72	1.5	0.45	1.39	2.15	1.46	0.675	0.657
41.5	65.5	1	0.37	1.71	2.65	1.79	0.403	0.396
43	72	1.5	0.25	2.48	3.84	2.6	0.51	0.502
41.5	65.5	1	0.23	2.71	4.2	2.84	0.323	0.317
46.5	73.5	1	0.22	2.83	4.38	2.97	0.417	0.411
48	82	1.5	0.25	2.57	3.98	2.69	0.715	0.704
48	82	1.5	0.25	2.57	3.98	2.69	0.715	0.704
46.5	73.5	1	0.33	1.92	2.96	2.01	0.505	0.494
48	82	1.5	0.43	1.47	2.27	1.54	0.925	0.903
46.5	73.5	1	0.33	1.92	2.96	2.01	0.505	0.494
51.5	78.5	1	0.21	2.94	4.56	3.09	0.465	0.459
53	92	1.5	0.25	2.56	3.95	2.68	0.957	0.942
51.5	78.5	1	0.3	2.09	3.23	2.19	0.545	0.533
51.5	78.5	1	0.3	2.09	3.23	2.19	0.545	0.533
53	92	1.5	0.42	1.51	2.33	1.58	1.23	1.2
59	101	2	0.23	2.7	4.17	2.83	1.21	1.19
59	101	2	0.23	2.7	4.17	2.83	1.21	1.19
56.5	83.5	1	0.27	2.33	3.61	2.45	0.59	0.577
56.5	83.5	1	0.27	2.33	3.61	2.45	0.59	0.577
56.5	83.5	1	0.27	2.33	3.61	2.45	0.59	0.577
56.5	83.5	1	0.21	3.07	4.76	3.22	0.525	0.515
64	111	2	0.23	2.7	4.18	2.83	1.58	1.56
63	92	1.5	0.27	2.35	3.64	2.47	0.81	0.792
63	92	1.5	0.27	2.35	3.64	2.47	0.81	0.792
63	92	1.5	0.2	3.19	4.94	3.34	0.705	0.693
68	102	1.5	0.28	2.26	3.49	2.36	1.09	1.07
68	102	1.5	0.19	3.37	5.22	3.53	0.9	0.885
73	112	1.5	0.17	3.67	5.68	3.84	1.15	1.13
73	112	1.5	0.28	2.24	3.47	2.35	1.46	1.43
83	122	1.5	0.17	3.6	5.58	3.77	1.36	1.34
89	131	2	0.16	3.9	6.03	4.08	1.67	1.64
94	141	2	0.17	3.61	5.59	3.78	2.07	2.04



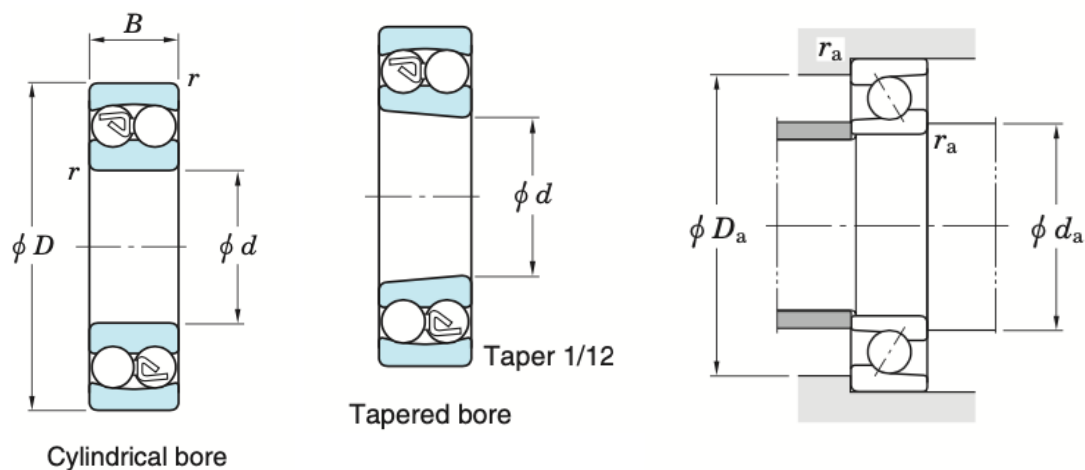
Cylindrical bore



Tapered bore



Boundary dimensions (mm)				Basic Load Ratings		Fatigue Load	Limiting Speeds		Bearing no.	
d	D	B	r min	Cr	Cor	Cu	Grease Lub	Oil Lub	Cylindrical Bore	Tapered Bore
20	47	18	1	12.6	3.25	0.21	14 000	17 000	-	2204K
25	52	18	1	12.6	3.50	0.22	12 000	15 000	2205	2205K
60	130	31	2.1	57.1	20.8	1.30	4 500	5 500	-	1312K
65	140	33	2.1	61.7	22.9	1.40	4 300	5 200	-	1313K
70	125	24	1.5	34.7	13.7	0.87	4 600	5 700	-	1214K
90	160	30	2	56.8	23.4	1.30	3 500	4 300	-	1218K

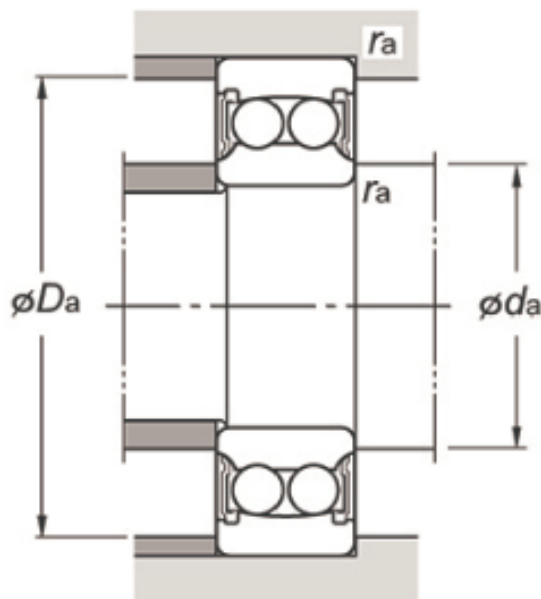
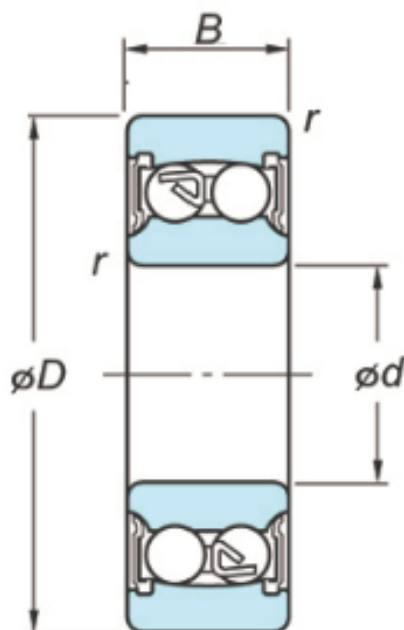


Mounting Dimensions			Constant	Axial load factors			Mass (kg)	
da	Da	ra		Y1	Y2	Y0	Cylindrical Bore	Tapered Bore
min	max	max	e					
25	42	1	0.48	1.31	2.02	1.37	0.140	0.136
30	47	1	0.40	1.58	2.45	1.66	0.163	0.158
71	119	2	0.22	2.91	4.50	3.05	1.96	1.93
76	129	2	0.23	2.73	4.23	2.86	2.45	2.41
78	117	1.5	0.18	3.48	5.38	3.64	1.26	-
99	151	2	0.17	3.69	5.70	3.86	2.52	2.48

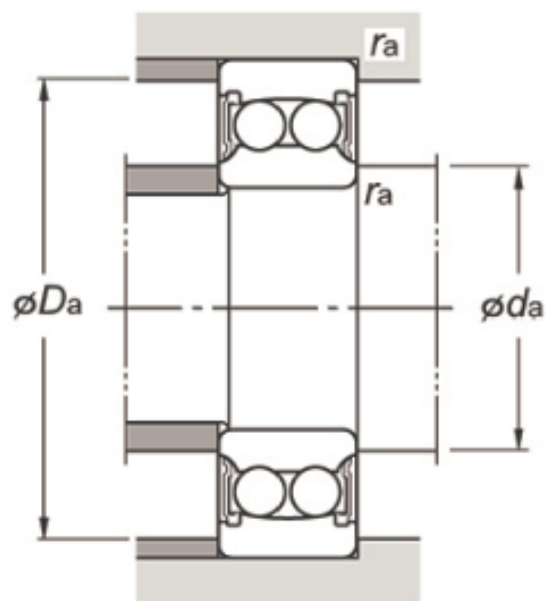
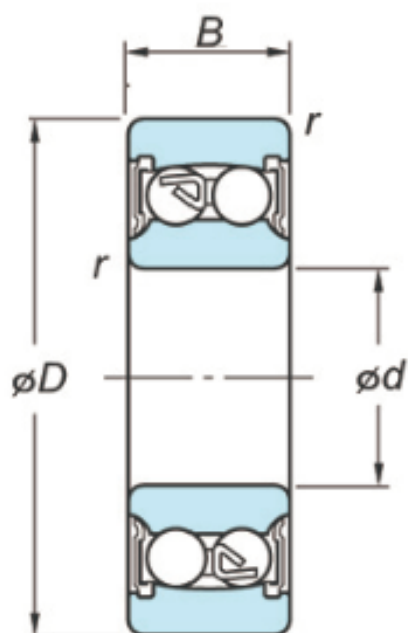
Also Stocking	
1220K	100 X 180 X 34
2215	75 X 130 X 31
2215K	75 X 130 X 31
2216	80 x140 x 33
2216K	80 x140 x 33
2217K	85 x 150 x36

Self Aligning Bearings 2RS Series

Koyo



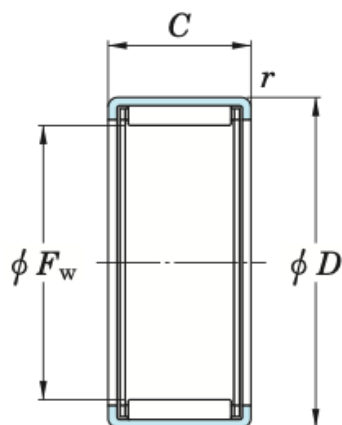
Boundary dimensions (mm)				Basic Load Ratings		Fatigue Load	Limiting Speeds	Bearing no.
d	D	B	r min	Cr	Cor	Cu	Grease Lub	
50	90	23	1.1	22.7	8.10	0.51	4 300	2210-2RS
35	80	31	1.5	25.1	7.95	0.49	5 100	2307-2RS
40	90	33	1.5	38.1	12.9	0.80	4 600	2308-2RS
45	100	36	1.5	38.1	12.9	0.80	4 100	2309-2RS
50	110	40	2	43.3	14.2	0.89	3 700	2310-2RS



Mounting Dimensions				Constant	Axial load factors			Mass Kg
da		Da	ra	e	Y1	Y2	Y0	
min	max	max	max					
56.5	56.5	83	1	0.21	3.07	4.76	3.22	0.590
43.5	49.6	71.5	1.5	0.25	2.48	3.84	2.60	0.675
48.5	49.6	81.5	1.5	0.25	2.57	3.98	2.69	0.925
53.5	56.6	91.5	1.5	0.25	2.56	3.95	2.68	1.23
60	62.5	100	2	0.23	2.70	4.17	2.83	1.64

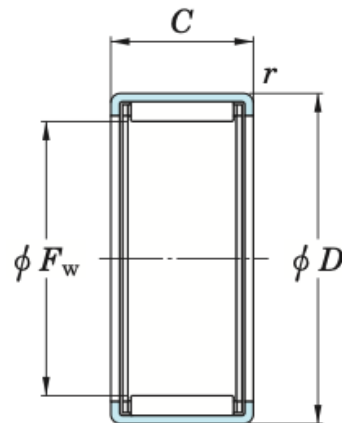
Needle Roller Shell Type (Drawn Cup) Metric HK Series

Koyo



HK

Shaft Dia	Boundary Dimensions (mm)					Bearing no.
	Fw	D	"C+0 -0.3"	C3min.	r min	
3	3	6.5	6	-	0.3	HK0306
4	4	8	8	-	0.4	HK0408
5	5	9	9	-	0.4	HK0509
6	6	10	8	-	0.4	HK0608
6	6	10	9	-	0.4	HK0609
7	7	11	9	-	0.4	HK0709
8	8	12	8	-	0.4	HK0808
8	8	12	10	-	0.4	HK0810
9	9	13	10	-	0.4	HK0910
10	10	14	10	-	0.4	HK1010
10	10	14	12	-	0.4	HK1012
10	10	14	15	-	0.4	HK1015
12	12	18	12	-	1	HK1212
14	14	20	12	-	1	HK1412
15	15	21	12	-	1	HK1512
15	15	21	16	-	1	HK1516
16	16	22	12	-	1	HK1612
16	16	22	16	-	1	HK1616
16	16	22	22	-	1	HK1622 1)
17	17	23	12	-	1	HK1712
18	18	24	12	-	1	HK1812
18	18	24	16	-	1	HK1816
20	20	26	12	-	1	HK2012
20	20	26	16	-	1	HK2016
20	20	26	20	-	1	HK2020

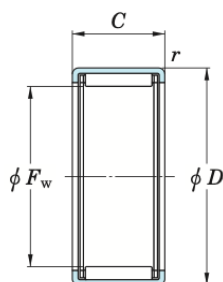


HK

Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min ⁻¹)		Mass Kg	Mounting inner ring	Bearing no.
Cr	Cor		Grease	Oil			
1.6	1.14	0.13	30 000	46 000	0.001		HK0306
1.88	1.38	0.2	25 000	39 000	0.002		HK0408
2.52	2.07	0.32	23 000	36 000	0.002		HK0509
2.34	1.95	0.29	22 000	33 000	0.002		HK0608
3.14	2.85	0.29	22 000	33 000	0.002		HK0609
3.23	3.05	0.47	21 000	32 000	0.003		HK0709
2.9	2.73	0.4	20 000	31 000	0.003		HK0808
3.95	4.07	0.6	20 000	31 000	0.004	JR5x8x12	HK0810
4.57	5.07	0.77	19 000	30 000	0.004	JR6x9x12	HK0910
4.78	5.51	0.84	19 000	29 000	0.004	JR7x10x10,5	HK1010
5.9	7.23	1.1	19 000	29 000	0.005	JR7x10x12	HK1012
7.49	9.81	1.5	19 000	29 000	0.006	JR7x10x16	HK1015
6.61	7.29	1.1	14 000	22 000	0.01	JR8x12x12,5	HK1212
7.21	8.5	1.3	14 000	21 000	0.011	JR10x14x12	HK1412
7.49	9.11	1.4	14 000	21 000	0.012	JR12x15x12,5	HK1512
10.7	14.4	2.2	14 000	21 000	0.018	JR12x15x16,5	HK1516
7.76	9.72	1.5	14 000	21 000	0.012	JR12x16x12	HK1612
11.1	15.3	2.35	14 000	21 000	0.016	JR12x16x16	HK1616
13.4	19.5	2.95	14 000	21 000	0.022	JR12x16x22	HK1622 1)
8.12	10.4	1.6	13 000	20 000	0.013		HK1712
8.41	11.11	1.7	12 000	18 000	0.015		HK1812
11.6	16.8	2.55	12 000	18 000	0.018	JR15x18x16,5	HK1816
8.97	12.5	1.9	11 000	16 000	0.015	JR15x20x12	HK2012
12.4	18.9	2.85	11 000	16 000	0.022	JR17x20x16,5	HK2016
15.9	26.2	3.95	11 000	16 000	0.025	JR17x20x20,5	HK2020

Needle Roller Shell Type (Drawn Cup) Metric HK Series

Koyo

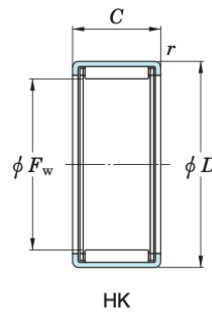


HK

Shaft Dia	Boundary Dimensions (mm)					Bearing no.
	Fw	D	"C+0 -0.3"	C3min.	r min	
22	22	28	12	-	1	HK2212
22	22	28	16	-	1	HK2216
22	22	28	20	-	1	HK2220
25	25	32	12	-	1	HK2512
25	25	32	16	-	1	HK2516
25	25	32	20	-	1	HK2520
25	25	32	26	-	1	HK2526
25	25	32	38	-	1	HK2538 1)
28	28	35	20	-	1	HK2820
30	30	37	16	-	1	HK3016
30	30	37	20	-	1	HK3020
30	30	37	26	-	1	HK3026
30	30	37	38	-	1	HK3038 1)
35	35	42	16	-	1	HK3516
35	35	42	20	-	1	HK3520
40	40	47	12	-	1	HK4012
40	40	47	16	-	1	HK4016
45	45	52	12	-	1	HK4512
45	45	52	16	-	1	HK4516
50	50	58	25	-	1	HK5025
55	55	63	20	-	1	HK5520
60	60	68	20	-	1	HK6012
20	20	26	12	-	1	HK2012
20	20	26	16	-	1	HK2016
20	20	26	20	-	1	HK2020

Also Stocking			
HK0912	(JR6X9X12) (9x13x12)	HK1522	(JR12X55X2.5) (15x21x22)
HK2816	(JR22X28X17) (28x35x16)	HK2030	(JR17X20X30.5) (20x26x30)
HK3512	(35x42x12)	HK3012	(30x37x12)
HK4020-2RS	(JR35X40X20.5) (40x47x20)	HK3018-2RS	(30x37x18)
HK4520	(JR40X45X20.5) (45x52x20)	HK4020	(JR35X40X20.5) (40x47x20)
HK1210	(JR8X12X10.5) (12x16x10)	HK5020	(JR45X50X20) (50x58x20)
HK1312	(10X13X12.5) (13x19x12)		

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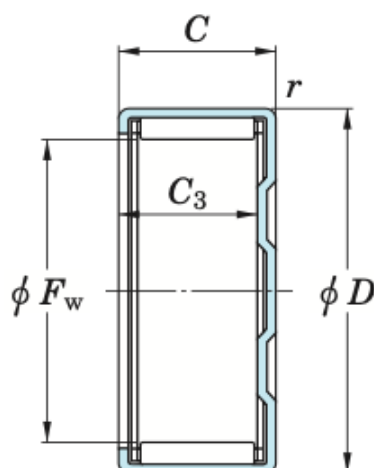


Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min ⁻¹)		Mass Kg	Mounting inner ring	Bearing no.
Cr	Cor		Grease	Oil			
9.81	14.5	2.2	9 600	15 000	0.015	JR17x22x13	HK2212
13.1	20.9	3.2	9 600	15 000	0.022	JR17x22x16	HK2216
15.3	25.5	4	9 600	15 000	0.026	JR17x22x2	HK2220
10.9	14.7	2.25	8 500	13 000	0.021		HK2512
15.6	23.5	3.55	8 500	13 000	0.028	JR20x25x17	HK2516
20.6	33.4	5.3	8 500	13 000	0.04	JR20x25x20,5	HK2520
25.7	44.4	6.95	8 500	13 000	0.046	JR20x25x26,5	HK2526
35.3	66.9	10.6	8 500	13 000	0.068	JR20x25x38,5	HK2538 1)
20.9	35.3	5.6	7 500	12 000	0.04	JR22x28x20,5	HK2820
16.8	27.3	4.2	7 000	11 000	0.032	JR25x30x17	HK3016
22.4	39.6	6.25	7 000	11 000	0.042	JR25x30x20,5	HK3020
27.4	51.2	7.95	7 000	11 000	0.054	JR25x30x26,5	HK3026
38.4	79.2	12.5	7 000	11 000	0.075	JR25x30x38,5	HK3038 1)
17.4	29.9	4.6	5 900	9 100	0.037	JR30x35x17	HK3516
24.5	46.8	7.4	5 900	9 100	0.049	JR30x35x20,5	HK3520
14.7	25.3	3.4	5 200	7 900	0.033		HK4012
18.9	34.8	5.35	5 200	7 900	0.042	JR35x40x17	HK4016
14.1	24.8	3.75	4 600	7 000	0.036		HK4512
19.8	38.5	5.95	4 600	7 000	0.048	JR40x45x17	HK4516
35.5	74.1	11.7	4 100	6 300	0.092	JR45x50x25,5	HK5025
31	64.4	10	3 700	5 700	0.079		HK5520
18.6	34.4	5.25	3 400	5 200	0.06		HK6012
8.97	12.5	1.9	11 000	16 000	0.015	JR15x20x12	HK2012
12.4	18.9	2.85	11 000	16 000	0.022	JR17x20x16,5	HK2016
15.9	26.2	3.95	11 000	16 000	0.025	JR17x20x20,5	HK2020

Also Stocking			
HK1214-RS	12x18x14	HK1814-RS	18x24x14
HK1216-2RS	12x16x16	HK2218-RS	22x28x18
HK1414-RS	14x20x14	HK2524-2RS	25x32x24
HK1416-2RS	14x20x16	HK3024-2RS	30x37x24
HK1514-RS	15x21x14	HK4520-2RS	(JR40X45X20.5) (45x52x20)
HK1516-2RS	(JR12X15X16.5) (15x21x16)	HK2018-2RS	20x26x18

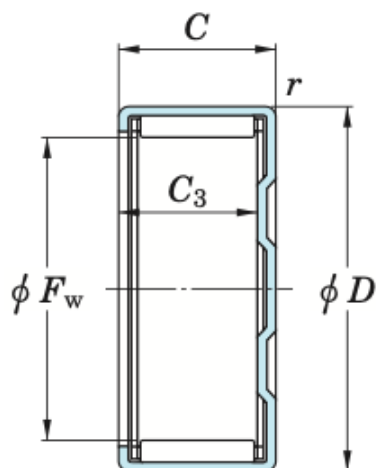
Needle Roller Shell Type (Drawn Cup) BK Closed One End Series

Koyo



BK

Shaft Dia	Boundary Dimensions (mm)					Bearing no.
	Fw	D	"C+0 -0.3"	C3min.	r min	
10	10	14	10	8.4	0.4	BK1010
12	12	16	10	8.4	0.4	BK1210
12	12	18	12	9.3	1	BK1212
15	15	21	12	9.3	1	BK1512
15	15	21	16	13.3	1	BK1516
16	16	22	12	9.3	1	BK1612
16	16	22	16	13.3	1	BK1616
18	18	24	16	13.3	1	BK1816
20	20	26	12	9.3	1	BK2012
20	20	26	16	13.3	1	BK2016
20	20	26	20	17.3	1	BK2020
22	22	28	20	17.3	1	BK2220
25	25	32	20	17.3	1	BK2520
25	25	32	26	23.3	1	BK2526
30	30	37	20	17.3	1	BK3020
30	30	37	26	23.3	1	BK3026
30	30	37	38	35.3	1	BK3038 1)
35	35	42	20	17.3	1	BK3520
40	40	47	20	17.3	1	BK4020

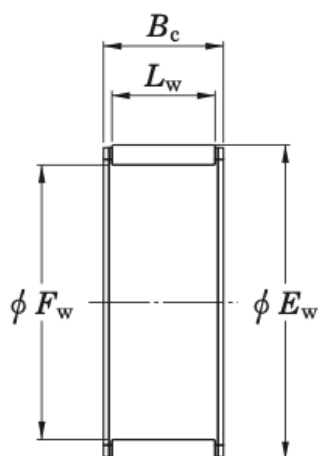


BK

Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min ⁻¹)		Mass Kg	Mounting inner ring	Bearing no.
Cr	Cor		Grease	Oil			
4.78	5.51	0.84	19 000	29 000	0.004	JR7x10x10,5	BK1010
4.96	6.08	0.89	18 000	28 000	0.006	JR8x12x10,5	BK1210
6.61	7.29	1.1	14 000	22 000	0.012	JR8x12x12,5	BK1212
7.16	8.57	1.4	14 000	21 000	0.015	JR12x15x12,5	BK1512
10.7	14.4	2.2	14 000	21 000	0.019	JR12x15x16,5	BK1516
7.76	9.72	1.5	14 000	21 000	0.016	JR12x16x12	BK1612
11.1	15.3	2.35	14 000	21 000	0.02	JR12x16x16	BK1616
11.6	16.8	2.55	12 000	18 000	0.022	JR15x18x16,5	BK1816
8.97	12.5	1.9	11 000	16 000	0.017	JR15x20x12	BK2012
12.4	18.9	2.85	11 000	16 000	0.024	JR17x20x16,5	BK2016
15.5	25.3	3.95	11 000	16 000	0.027	JR17x20x20,5	BK2020
15.30	25.50	4	9 600	15 000	0.028	JR17x22x23	BK2220
20.6	33.4	5.3	8 500	13 000	0.043	JR20x25x20,5	BK2520
25.7	44.4	6.95	8 500	13 000	0.051	JR20x25x26,5	BK2526
22.4	39.6	6.25	7 000	11 000	0.053	JR25x30x20,5	BK3020
27.4	51.2	7.95	7 000	11 000	0.067	JR25x30x26,5	BK3026
38.4	79.2	12.5	7 000	11 000	0.093	JR25x30x38,5	BK3038 1)
24.5	46.8	7.4	5 900	9 100	0.065	JR30x35x20,5	BK3520
25.1	50.4	8	5 200	7 900	0.07	JR35x40x20,5	BK4020

Needle Roller Shell Type (Drawn Cup) WJ Signma Cage Series

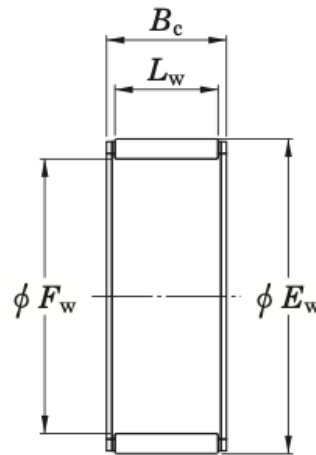
Koyo



WJ, WJC

Shaft Dia	Boundary Dimensions (mm)			Bearing no.	Basic load ratings(kN)		Fatigue load limit(kN)	Limiting speeds(min-1)	
	Fw	Ew	Bc+0 -0.38		Cr	COr	Cu	Grease lub	Oil lub.
3/4	19.05	25.4	25.4	WJ-121616	26.8	37.2	5.8	16 000	24 000
7/8	22.225	28.575	25.4	WJ-141816	29.2	43.5	6.75	13 000	20 000
1	25.4	33.338	19.05	WJ-162112	28.1	37.1	5.9	12 000	18 000
1	25.4	33.338	25.4	WJ-162116	36.8	52.5	8.2	12 000	18 000
1	25.4	33.338	31.75	WJ-162120	44.5	67.2	10.5	12 000	18 000
1 1/8	28.575	38.1	25.4	WJ-182416	42.4	57.8	9.05	10 000	16 000
1 1/4	31.75	41.275	19.05	WJ-202612	33.4	43.7	7.05	9 300	14 000
1 1/4	31.75	41.275	25.4	WJ-202616	44.1	62.3	9.8	9 300	14 000
1 1/4	31.75	41.275	38.1	WJ-202624	63.6	99.6	15.6	9 300	14 000
1 1/2	38.1	47.625	25.4	WJ-243016	47.2	71.6	11.3	7 600	12 000
1 1/2	38.1	47.625	31.75	WJ-243020	57.8	93	14.5	7 600	12 000
1 1/2	38.1	47.625	38.1	WJ-243024	68.1	114.8	18	7 600	12 000
1 3/4	44.45	53.975	19.05	WJ-283412	39.5	59.6	9.6	6 400	9 900
1 3/4	44.45	53.975	25.4	WJ-283416	52	85	13.4	6 400	9 900
1 3/4	44.45	53.975	38.1	WJ-283424	74.7	136	21.3	6 400	9 900
2	50.8	60.325	19.05	WJ-323812	42.8	69	11.1	5 600	8 600
2	50.8	60.325	31.75	WJ-323820	69	127	20	5 600	8 600
2	50.8	60.325	38.1	WJ-323824	81	157	24.6	5 600	8 600
2 1/8	53.975	63.5	25.4	WJ-344016	52.5	92.08	14.6	5 200	8 000
2 1/8	53.975	63.5	38.1	WJ-344024	78.3	153	24	5 200	8 000
2 1/4	57.15	66.675	25.4	WJ-364216	53.8	96.08	15.2	4 900	7 500
2 1/2	63.5	73.025	25.4	WJ-404616	55.6	104	16.5	4 400	6 700
2 1/2	63.5	73.025	38.1	WJ-404624	83.2	173	27.2	4 400	6 700
3	76.2	85.725	25.4	WJ-485416	59.6	120.55	19.1	3 600	5 600

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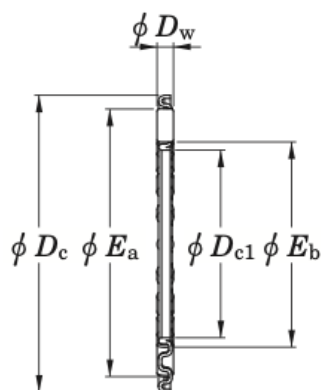
WJ, WJC

Recommended dimensions				Mass(kg)	Bearing no.
Shaft dia. (h5)		Housing bore dia. (G6)			
max	min.	max	min		
19.05	19.04	25.42	25.408	0.023	WJ-121616
22.225	22.215	28.595	28.583	0.026	WJ-141816
25.4	25.39	33.363	33.348	0.029	WJ-162112
25.4	25.39	33.363	33.348	0.038	WJ-162116
25.4	25.39	33.363	33.348	0.048	WJ-162120
28.575	28.565	38.125	38.11	0.041	WJ-182416
31.75	31.74	41.3	41.285	0.043	WJ-202612
31.75	31.74	41.3	41.285	0.061	WJ-202616
31.75	31.74	41.3	41.285	0.085	WJ-202624
38.1	38.09	47.65	47.635	0.078	WJ-243016
38.1	38.09	47.65	47.635	0.083	WJ-243020
38.1	38.09	47.65	47.635	0.1	WJ-243024
44.45	44.44	54.003	53.985	0.058	WJ-283412
44.45	44.44	54.003	53.985	0.084	WJ-283416
44.45	44.44	54.003	53.985	0.115	WJ-283424
50.8	50.787	60.353	60.335	0.065	WJ-323812
50.8	50.787	60.353	60.335	0.108	WJ-323820
50.8	50.787	60.353	60.335	0.13	WJ-323824
53.975	53.962	63.528	63.51	0.089	WJ-344016
53.975	53.962	63.528	63.51	0.137	WJ-344024
57.15	57.137	66.703	66.685	0.096	WJ-364216
63.5	63.487	73.053	73.035	0.106	WJ-404616
63.5	63.487	73.053	73.035	0.179	WJ-404624
76.2	76.187	85.761	85.738	0.126	WJ-485416

Needle Roller Thrust Bearings

AKX Metric Washers Series

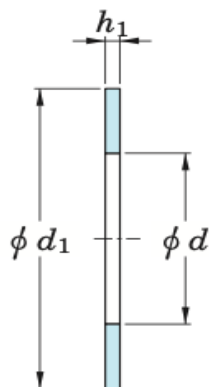
Koyo



AKX

Shaft Dia	Boundary dimensions (mm)						Bearing no.	Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min-1)	Mass(kg)
	Dc1	Dc	Dw	Ea	Eb	Ra max		Cr	Cor			
6	6	19	2	16.9	7.8	0.3	AXK0619TN	6.37	14.3	1.4	23 000	0.001
8	5	21	2	18.6	9.6	0.3	AXK0821TN	8.34	21.1	2	20 000	0.001
10	10	24	2	22.5	11	0.3	AXK1024	9.32	25.9	2.9	17 000	0.003
12	12	26	2	24.5	13	0.3	AXK1226	10.8	32.3	3.4	15 000	0.004
15	15	28	2	27	17	0.3	AXK1528	11.1	35.2	3.35	15 000	0.004
17	17	30	2	28.7	18.3	0.3	AXK1730	11.7	38.7	3.7	14 000	0.004
20	20	35	2	34	22	0.3	AXK2035	12.8	45.4	4.4	12 000	0.006
25	25	42	2	41	29	0.6	AXK2542	14.3	56.8	5.5	10 000	0.007
30	30	47	2	46	35	0.6	AXK3047	16	68.1	6.6	9 000	0.009
35	35	52	2	51	40	0.6	AXK3552	17.4	79.5	7.7	8 100	0.01
40	40	60	3	58	45	0.6	AXK4060	27.1	110	11.9	7 000	0.016
50	50	70	3	68	55	0.6	AXK5070	30.8	137	14.9	6 000	0.02
55	55	78	3	76	60	0.6	AXK5578	39.4	195	20.5	5 300	0.026
60	60	85	3	83	65	0.6	AXK6085	44.5	234	24.7	4 900	0.035
65	65	90	3	88	70	0.6	AXK6590	46.7	254	26.8	4 600	0.036
70	70	95	4	93	74	0.6	AXK7095	53.8	253	28	4 400	0.055
75	75	100	4	98	79	0.6	AXK75100	55.1	266	29.4	4 200	0.058
100	100	135	4	133	105	0.6	AXK100135	90.2	552	56.4	3 100	0.106
110	110	145	4	143	115	0.6	AXK110145	93.2	591	59	2 800	0.117
120	120	155	4	153	125	0.6	AXK120155	98.5	650	63.5	2 700	0.126
130	130	170	5	167	136	0.6	AXK130170	132	829	78.7	2 400	0.198
140	130	170	5	177	146	0.6	AXK140180	136	887	82.5	2 300	0.221
150	150	190	5	187	156	0.6	AXK150190	141	944	86.2	2 200	0.225
160	160	200	5	197	166	0.6	AXK160200	146	1000	89.9	2 100	0.249

Every effort has been taken to ensure that the data listed in this catalogue is correct.
Finer Power Transmissions P/L will not accept liability for any damage or loss caused as a result of the data in this catalogue.



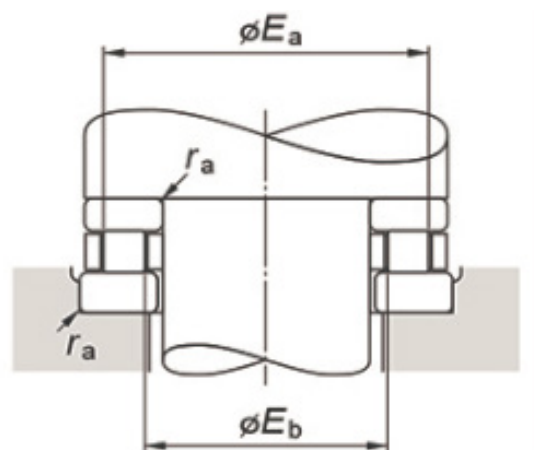
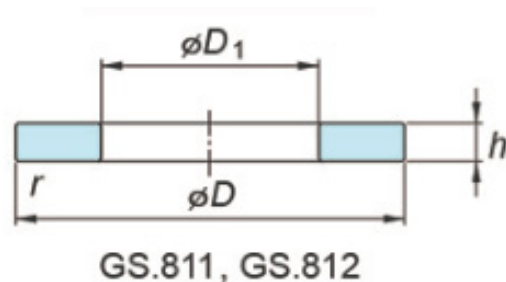
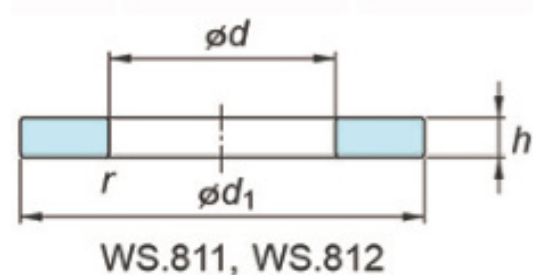
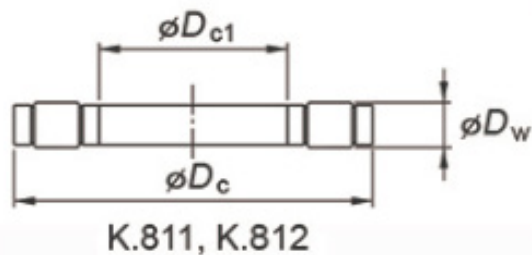
AS
($h_1 = 1.0$)

Washer Dimensions mm			AS Metric Washers		
d	D1d1	D1	h1 mm	Bearing no.	Mass(kg)
6	19		1	AS0619	0.001
8	21		1	AS0821	0.002
10	24		1	AS1024	0.003
12	26		1	AS1226	0.003
15	28	16	1	AS1528	0.003
17	30	18	1	AS1730	0.003
20	35	21	1	AS2035	0.005
25	42	26	1	AS2542	0.007
30	47	32	1	AS3047	0.008
35	52	37	1	AS3552	0.009
40	60	42	1	AS4060	0.012
50	70	52	1	AS5070	0.014
55	78	57	1	AS5578	0.018
60	85	62	1	AS6085	0.022
65	90	67	1	AS6590	0.023
70	95	72	1	AS7095	0.025
75	100	77	1	AS75100	0.027
100	135		1	AS100135	0.05
110	145		1	AS110145	0.055
120	155		1	AS120155	0.059
130	170		1	AS130170	0.074
140	180		1	AS140180	0.078
150	190		1	AS150190	0.083
160	200		1	AS160200	0.089

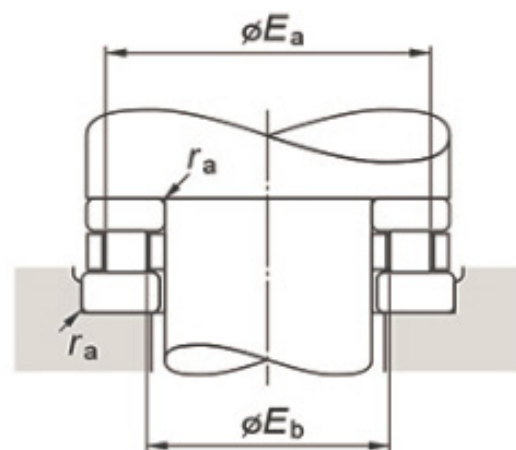
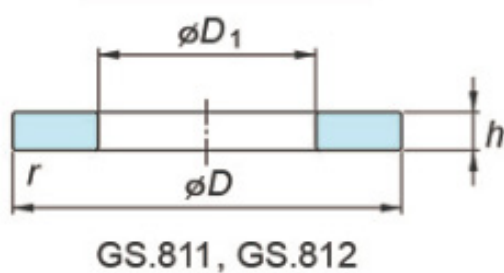
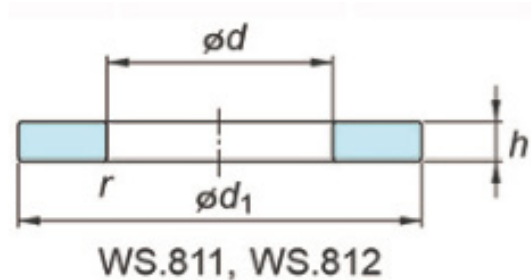
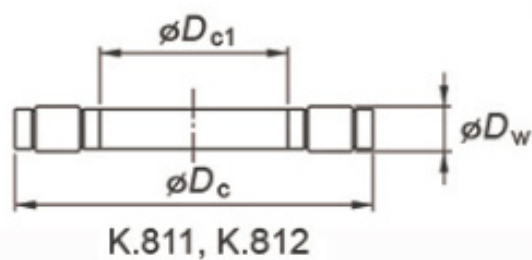
Needle Roller Thrust Bearings

K Metric Series/GS Outer Washer/WS Inner Washer

Koyo



Shaft Dia	Assembly Dimensions							Assembly Designation	Load Ratings		Fatigue Load Limit Cu	Speed Rating Oil
	Dc1	Dc	Dw	T	Eb max	Ea min	ras max ra max		Dynamic	Static		
									C	Co		
40	40	60	6.0	-	44	56	0.6	K.81108	44.2	126	12.0	5 300
55	55	78	6.0	16	60	73	0.6	K.81111	60.3	207	19.8	4 000
70	70	95	7.5	18	75	90	1.0	K.81114	92.1	328	35.5	3 200

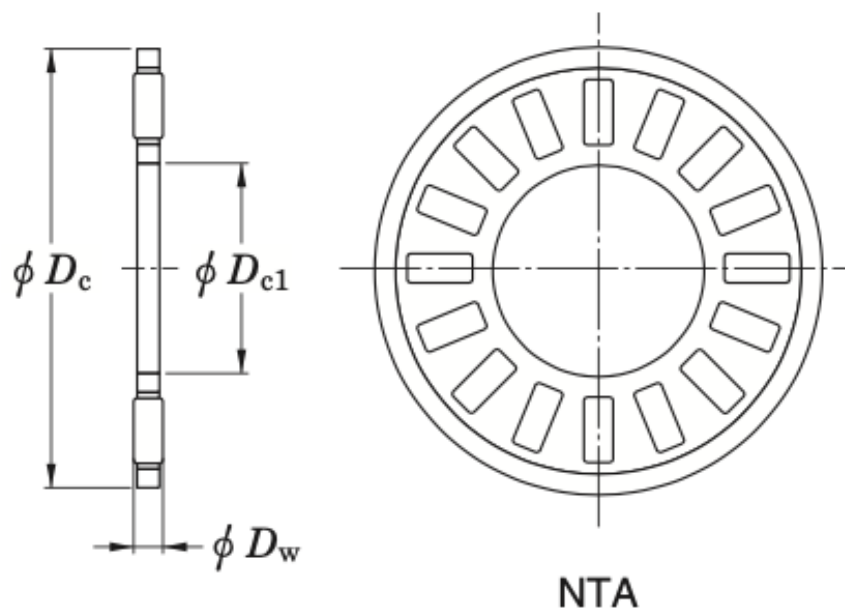


Approx Weight	Washer Dimensions			h		rs min	Washer Designation		Approx Weight	Shaft Dia
	d	D1	D,d1	Max	Min		Shaft Pioleted	Housing Pioleted		
0.044	40	42	60	3.50	3.34	0.6	WS.81108	GS.81108	0.043	40
0.066	55	57	78	5	4.81	0.6	WS.81111	GS.81111	0.094	-
0.056	70	72	95	5.25	5.06	1.0	WS.81114	GS.81114	0.133	70

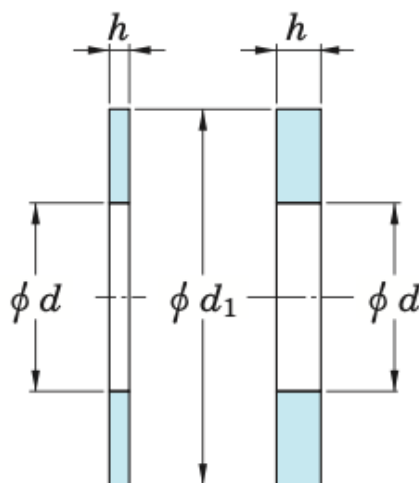
Needle Roller Thrust Bearings

NTA Series

Koyo



Shaft Dia	Boundary dimensions (mm)					Bearing no.	Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min-1)	Mass(kg)
	Dc1	Dc	Dw	Ea	Eb		Cr	Cor			
1/2	12.7	23.8	1.984	14.99	21.08	NTA-815	7.16	19.13	1.85	19 000	0.002
5/8	15.88	28.575	1.9837	18.03	25.908	NTA-1018	9.79	30.38	2.85	15 000	0.003
3/4	19.05	31.75	1.9837	21.34	28.956	NTA-1220	10.9	36.48	3.4	14 000	0.004
7/8	22.23	36.5	1.984	24.38	33.782	NTA-1423	13.43	49.82	4.65	12 000	0.005
1	25.4	39.675	1.984	27.69	36.83	NTA-1625	13.83	53.82	5	11 000	0.006
1 1/4	31.75	49.2	1.9837	34.04	46.228	NTA-2031	20.15	93.41	9.55	8 600	0.01
1 3/8	34.93	52.375	1.9837	37.08	49.53	NTA-2233	21.35	103.2	10.5	8 000	0.01
1 1/2	38.1	55.55	1.9837	40.39	52.578	NTA-2435	23.22	117.88	12	7 600	0.011
1 3/4	44.45	63.5	1.984	46.74	58.928	NTA-2840	25.31	137.45	14	6 800	0.014
2	50.8	69.85	1.9837	53.09	65.278	NTA-3244	24.02	132.56	13.5	6 100	0.015
2 1/4	57.15	76.2	1.984	59.44	71.628	NTA-3648	24.78	142.34	14.6	5 600	0.017
2 1/2	63.5	82.55	1.9837	65.79	77.978	NTA-4052	25.53	152.13	15.6	5 100	0.019
2 3/4	69.85	92.075	3.175	72.64	87.884	NTA-4458	47.6	255.8	26.8	4 600	0.037
3	76.2	95.25	1.9837	78.49	90.678	NTA-4860	26.96	172.1	17.6	4 400	0.022
3 1/4	82.55	104.78	3.175	85.34	100.58	NTA-5266	51.6	294.9	30.9	4 000	0.042
3 3/4	95.25	117.48	3.175	98.04	113.28	NTA-6074	56.05	344.3	35.5	3 500	0.05



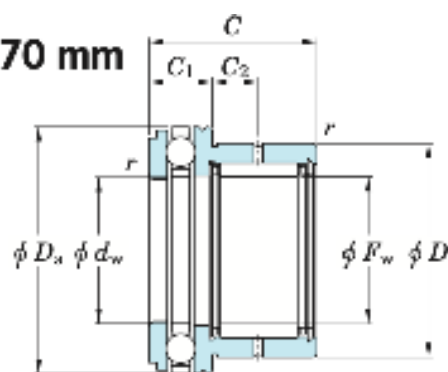
Washer no.				Washer Dimensions mm				Piloting dimen- sions(mm)		Dia. to clear O.D.(mm)	"Washer mass"
TRA	TRB	TRC	TRD	d	d1	h		S			
						max.	min.	max.	min.		
TRA-815	TRB-815	-	-	12.7	23.8	0.81	0.76	12.7	12.62	24.61	0.002
TRA-1018	TRB-1018	TRC-1018	-	15.88	28.58	0.81	0.76	15.88	15.8	29.36	0.003
TRA-1220	TRB-1220	-	TRD-1220	19.05	31.75	0.81	0.76	19.05	18.97	32.54	0.003
TRA-1423	TRB-1423	TRC-1423	TRD-1423	22.23	36.5	0.81	0.76	22.23	22.15	37.31	0.004
TRA-1625	TRB-1625	TRC-1625	TRD-1625	25.4	39.67	0.81	0.76	25.4	25.32	40.49	0.005
TRA-2031	TRB-2031	TRC-2031	TRD-2031	31.75	49.2	0.81	0.76	31.75	31.67	50.01	0.007
TRA-2233	TRB-2233	TRC-2233	TRD-2233	34.93	52.37	0.81	0.76	34.93	34.85	53.19	0.007
TRA-2435	TRB-2435	TRC-2435	TRD-2435	38.1	55.55	0.81	0.76	38.1	38.02	56.36	0.008
TRA-2840	TRB-2840	TRC-2840	TRD-2840	44.45	63.5	0.81	0.76	44.45	44.37	64.29	0.01
TRA-3244	TRB-3244	TRC-3244	TRD-3244	50.8	69.85	0.81	0.76	50.8	50.72	70.64	0.011
TRA-3648	TRB-3648	-	TRD-3648	57.15	76.2	0.81	0.76	57.15	57.07	76.99	0.012
TRA-4052	TRB-4052	TRC-4052	TRD-4052	63.5	82.55	0.81	0.76	63.5	63.42	83.34	0.013
TRA-4458	TRB-4458	TRC-4458	TRD-4458	69.85	92.08	0.81	0.76	69.85	69.77	92.86	0.018
TRA-4860	TRB-4860	-	TRD-4860	76.2	95.25	0.81	0.76	76.2	76.12	96.04	0.015
TRA-5266	-	-	TRD-5266	82.55	104.78	0.81	0.76	82.55	82.47	105.56	0.02
TRA-6074	TRB-6074	TRC-6074	TRD-6074	95.25	117.48	0.81	0.76	95.25	95.17	118.26	0.023

Combined Needle Roller & Thrust Bearings

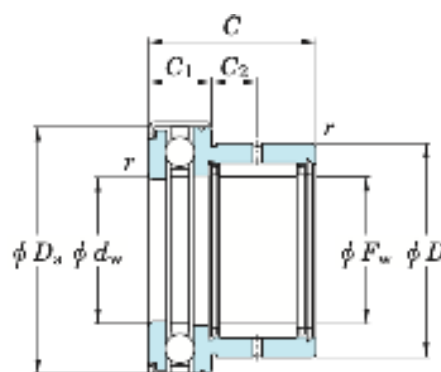
NAXK - Z/NAXK Series



Shaft dia. 10 ~ 70 mm



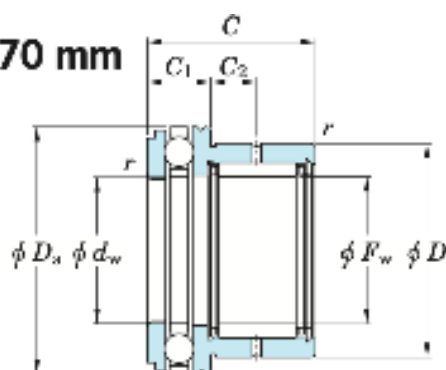
NAXK



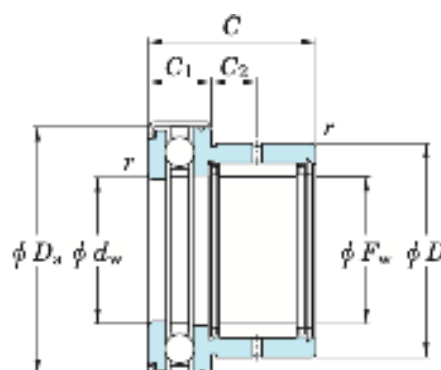
NAXK.Z

Shaft Dia	Boundary dimensions (mm)								Bearing no.
	Fw	D	C	dW(E7)	Da	C1	C2	r min	
10	10 10	19 19	23 23	10 10	25 24	9 9	6.5 6.5	0.3 0.3	NAXK10Z NAXK10
12	12 12	21 21	23 23	12 12	27 26	9 9	6.5 6.5	0.3 0.3	NAXK12Z NAXK12
15	15 15	24 24	23 23	15 15	29 28	9 9	6.5 6.5	0.3 0.3	NAXK15Z NAXK15
17	17 17	26 26	25 25	17 17	31 30	9 9	8 8	0.3 0.3	NAXK17Z NAXK17
20	20 20	30 30	30 30	20 20	36 36	10 10	10.5 10.5	0.3 0.3	NAXK20Z NAXK20
25	25 25	37 37	30 30	25 25	43 42	11 11	9.5 9.5	0.6 0.6	NAXK25Z NAXK25
30	30 30	42 42	30 30	30 30	48 47	11 11	9.5 9.5	0.6 0.6	NAXK30Z NAXK30
35	35 35	47 47	30 30	35 35	53 52	12 12	9 9	0.6 0.6	NAXK35Z NAXK35
40	40 40	52 52	32 32	40 40	61 60	13 13	10 10	0.6 0.6	NAXK40Z NAXK40
45	45 45	58 58	32 32	45 45	66.5 65	14 14	9 9	0.6 0.6	NAXK45Z NAXK45
50	50 50	62 62	35 35	50 50	71.5 70	14 14	10 10	0.6 0.6	NAXK50Z NAXK50
60	60	72	40	60	85	17	12	1	NAXK60
70	70	85	40	70	95	18	11	1	NAXK70

Shaft dia. 10 ~ 70 mm



NAXK

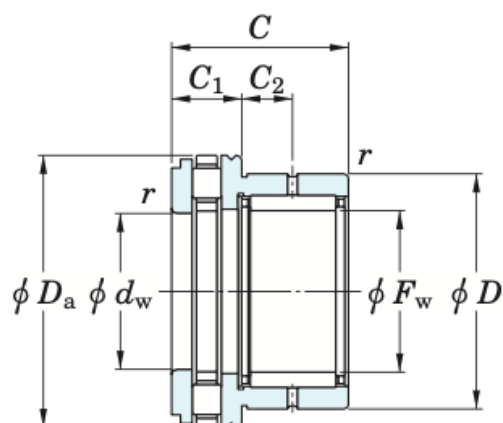


NAXK.Z

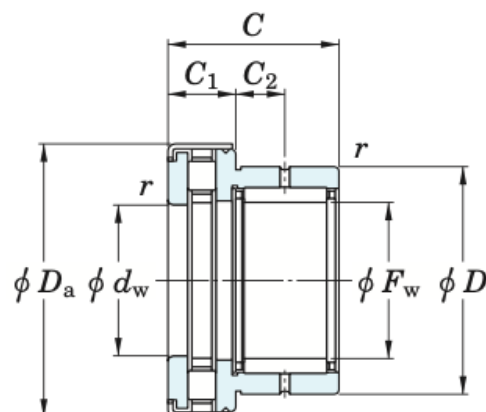
Limiting speed(min-1)	Basic load ratings				Fatigue load limits(kN)		Mass(kg)	"Matching inner ring No."
Oil lub.	Radial		Thrust		Cu			
	Cr	COr	Ca	C0a	Radial	Thrust		
9 500 9 500	7.9 7.9	8.7 8.7	10.4 10.4	14 14	1.35 1.35	0.63 0.63	0.04 0.04	JR7x10x16 JR7x10x16
9 000 9 000	7.5 7.5	8.5 8.5	10.7 10.7	15.4 15.4	1.3 1.3	0.69 0.69	0.047 0.046	JR9x12x16 JR9x12x16
8 500 8 500	9.7 9.7	12.6 12.6	10.9 10.9	16.8 16.8	1.9 1.9	0.76 0.76	0.05 0.047	JR12x15x16 JR12x15x16
8 500 8 500	11.4 11.4	16.1 16.1	11.8 11.8	19.6 19.6	2.5 2.5	0.88 0.88	0.064 0.06	JR14x17x17 JR14x17x17
7 000 7 000	14.8 14.8	23.7 23.7	15.5 15.5	26.6 26.6	3.65 3.65	1.2 1.2	0.094 0.089	JR17x20x20 JR17x20x20
6 300 6 300	18.8 18.8	29.8 29.8	18.8 18.8	35.5 35.5	4.6 4.6	1.6 1.6	0.141 0.134	JR20x25x20 JR20x25x20
5 600 5 600	20.2 20.2	34.6 34.6	19.5 19.5	39.9 39.9	5.35 5.35	2.15 2.15	0.154 0.146	JR25x30x20 JR25x30x20
5 300 5 300	22.1 22.1	40.8 40.8	20.8 46.6	46.6 46.6	6.35 6.35	2.1 2.1	0.184 0.176	JR30x35x20 JR30x35x20
4 500 4 500	23.8 23.8	47 47	28 28	62.9 62.9	7.3 7.3	2.85 2.85	0.233 0.224	JR35x40x20 JR35x40x20
4 500 4 500	24.9 24.9	51.8 51.8	29 29	69.2 69.2	8.05 8.05	3.1 3.1	0.275 0.262	JR40x45x20 JR40x45x20
4 300 4 300	30.2 30.2	68.5 68.5	29.9 29.9	75.5 75.5	10.7 10.7	3.4 3.4	0.332 0.316	JR45x50x25 JR45x50x25
3 600	31.9	78.1	43	113	12.2	5.1	0.48	JR50x60x25
3 400	43.6	87.9	41.6	110	13.9	4.95	0.65	JR60x70x25

Combined Needle Roller with Thrust Roller with Dust Cap Metric NAXR - Z Series

Koyo

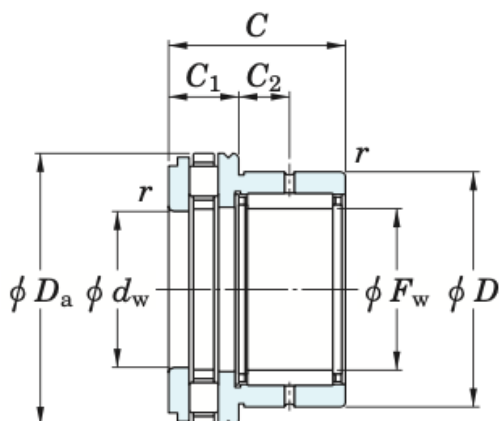


NAXR

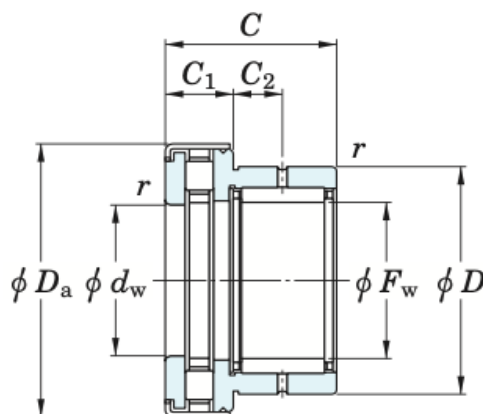


NAXR.Z

Shaft Dia	Boundary dimensions (mm)								Bearing no.		
	Fw	D	C	dW(E7)	Da	C1	C2	r min	RAXZ	NAXR	NAXR.Z
15	15	24	23	15	29	9	6.5	0.3	-	-	NAXR15.Z
17 17	17 17	26 26	25 25	17 17	31 30	9 9	8 8	0.3 0.3	- -	- NAXR17	NAXR17.Z -
20 20	20 20	30 30	30 30	20 20	36 35	10 10	10.5 10.5	0.3 0.3	- -	- NAXR20TN	NAXR20Z.TN -
25 25	25 25	37 37	30 30	25 25	42 42	11 11	9.5 9.5	0.6 0.6	- -	- NAXR25TN	NAXR25Z.TN -
30 30	30 30	42 42	30 30	30 30	48 47	11 11	9.5 9.5	0.6 0.6	- -	- NAXR30TN	NAXR30Z.TN -
35 35	35 35	47 47	30 30	35 35	53 52	12 12	9 9	0.6 0.6	- -	- NAXR35	NAXR35.Z -
40	40	52	32	40	61	13	10	0.6	-	-	NAXR40.Z
50 50	50 50	62 62	35 35	50 50	71 70	14 14	10 10	0.6 0.6	- -	- NAXR50	NAXR50.Z -



NAXR



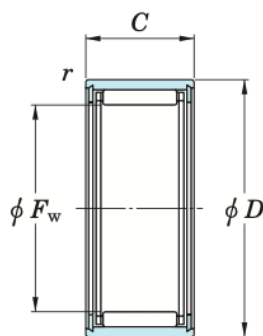
NAXR.Z

Limiting speed(min-1)	Basic load ratings				Fatigue load limits(kN)		Mass(kg)	"Matching inner ring No."
Oil lub.	Radial		Thrust		Cu			
	Cr	C0r	Ca	C0a	Radial	Thrust		
12 000	9.7	12.6	12.1	26.3	2.3	3.7	0.035	JR12x15x16
11 000 11 000	11.4 11.4	16.1 16.1	12.6 12.6	28.6 28.6	2.7 2.7	4.05 4.05	0.053 0.05	JR14x17x17 JR14x17x17
9 500 10 500	14.8 14.8	23.7 23.7	23.6 23.6	56.8 56.8	4 4	8 8	0.095 0.09	JR17x20x20 JR17x20x20
8 000 8 000	18.8 18.8	29.8 29.8	31.2 31.2	81 81	4.8 4.8	11.4 11.4	0.146 0.152	JR20x25x20 JR20x25x20
6 700 6 700	20.2 20.2	34.6 34.6	33 33	91.1 91.1	6.1 6.1	12.8 12.8	0.169 0.162	JR25x30x20 JR25x30x20
6 000 6 000	22.1 22.1	40.8 40.8	30.9 30.9	86 86	7.05 7.05	12.1 12.1	0.195 0.186	JR30x35x20 JR30x35x20
5 300	23.8	47	44.5	126	8.05	12	0.299	JR35x40x20
4 300 4 300	30.2 30.2	68.5 68.5	49.7 49.7	155 155	12.5 12.5	14.8 14.8	0.452 0.452	JR45x50x25 JR45x50x25

Machined Type without Inner Ring

Metric NK Series

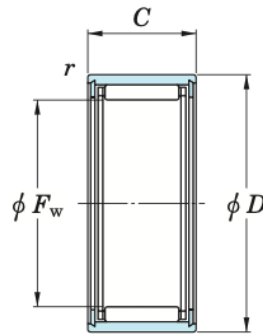
Koyo



NK ($\phi F_w \leq 10$)

Shaft Dia	Boundary Dimensions (mm)			Bearing no.	Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min-1)		Mass Kg
	Fw	D	C		Cr	Cor		Grease	Oil	
12	12	19	12	NK12/12	6.86	7.6	1.15	19 000	30 000	0.013
12	12	19	16	NK12/16	6.78	9.03	1.4	24 000	37 000	0.018
14	14	22	16	NK14/16	12.4	14.8	2.25	16 000	24 000	0.023
14	14	22	20	NK14/20	14.7	18.4	2.9	16 000	24 000	0.028
15	15	23	20	NK15/20	14.7	18.6	2.95	15 000	24 000	0.031
16	16	24	16	NK16/16	15.4	20.2	2.5	18 000	28 000	0.025
18	18	26	16	NK18/16	13.6	17.7	2.7	16 000	25 000	0.028
19	19	27	16	NK19/16	14.1	19	2.9	15 000	24 000	0.029
20	20	28	16	NK20/16	14.1	19.1	2.9	14 000	22 000	0.03
20	20	28	20	NK20/20	17.5	25.3	4	14 000	22 000	0.038
22	22	30	16	NK22/16	15.2	21.7	3.3	13 000	20 000	0.033
22	22	30	20	NK22/20	18	27	4.3	13 000	20 000	0.041
24	24	32	16	NK24/16	16.2	24.3	3.7	12 00	12 000	0.035
24	24	32	20	NK24/20	19.3	30.3	4.8	12 000	18 000	0.045
25	25	33	16	NK25/16	16.1	24.4	3.75	11 000	17 000	0.037
25	25	33	20	NK25/20	19.1	30.4	30.4	11 000	17 000	0.047
26	26	34	16	NK26/16	16.6	25.7	3.95	11 000	17 000	0.039
26	26	34	20	NK26/20	19.7	32	5.05	11 000	17 000	0.048
28	28	37	20	NK28/20	22.6	34.4	5.5	10 000	16 000	0.057
28	28	37	30	NK28/30	29	53.8	8.3	10 000	16 000	0.088
29	29	38	20	NK29/20	23.4	36.4	5.8	9 800	15 000	0.059
29	29	38	30	NK29/30	29.8	56.4	8.7	9 700	15 000	0.09
30	30	40	20	NK30/20	24.2	38.3	6.1	9 500	15 000	0.071
30	30	40	30	NK30/30	34.7	61	9.45	9 500	15 000	0.107
32	32	42	20	NK32/20	24.8	40.4	6.45	8 800	14 000	0.074
32	32	42	30	NK32/30	35.6	64.3	9.95	8 800	14 000	0.112
35	35	45	20	NK35/20	26.1	44.4	7.05	8 000	12 000	0.081

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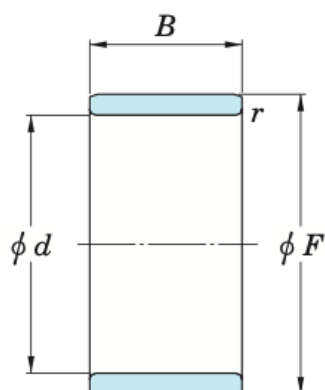
NK ($\phi F_w \leq 10$)

Shaft Dia	Boundary Dimensions (mm)			Bearing no.	Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min-1)		Mass Kg
	Fw	D	C		Cr	Cor		Grease	Oil	
35	35	45	30	NK35/30	37.4	70.6	11	8 000	12 000	0.122
37	37	47	30	NK37/30	38.2	73.9	11.5	7 600	12 000	0.128
43	42	52	30	NK42/30	40.7	83.5	13	6 600	10 000	0.141
43	53	30	30	NK43/30	41.6	86.6	13.4	6 400	9 900	0.134
65	65	78	35	NK65/35	65.2	144	22.4	4 200	6 500	0.298
70	70	85	25	NK70/25	43.6	87.9	16.6	3 900	6 000	0.298
75	75	92	25	NK75/25	43.7	90.2	19	3 600	5 600	0.364
8	8	15	12	NK8/12	4.57	4.89	0.74	26 000	41 000	0.011
8	8	15	16	NK8/16	5.22	5.78	0.88	26 000	41 000	0.013
85	85	105	25	NK85/25	76.4	137	22.2	3 300	5 000	0.506
85	85	105	35	NK85/35	108	214	34.7	3 300	5 000	0.61
100	100	120	26	NK100/26	83.6	163	25.8	2 800	4 200	0.53
100	100	120	36	NK100/36	118	254	39.1	2 800	4 200	0.658
110	110	130	30	NK110/30	103	220	33.6	2 500	3 800	0.66
110	110	130	40	NK110/40	132	301	45.7	2 500	3 800	0.9
10	10	17	16	NK10/16TN	5.3	6.27	0.940	25 000	39 000	0.015

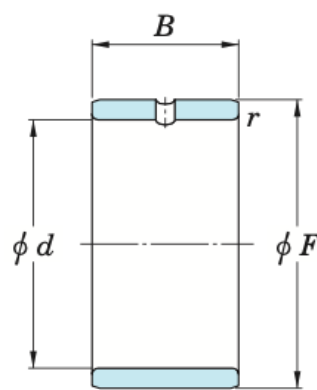
Also Stocking	
NK10/12	10 x 17 x 12
NKJ100/30	100 x 130 x 30
NKJ100/40	100 x 130 x 40
NKJ42/20	42 x 57 x 20
NKJ75/35	75 x 105 x 35

Machined Type Needle Inner Ring Metric JR Series

Koyo

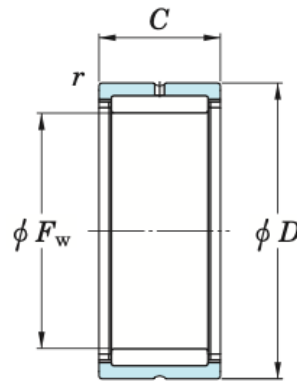


JR, IM..P



JR.JS1

Shaft Dia	Boundary Dimensions (mm)			Bearing No.	Mass Kg
	d	F	B		
12	12	15	16	JR12x15x16	0.008
14	14	17	17	JR14x17x17	0.009
17	17	20	20	JR17x20x20	0.014
20	20	25	20	JR20x25x20	0.028
25	25	30	20	JR25x30x20	0.034
30	30	35	20	JR30x35x20	0.039
35	35	40	20	JR35x40x20	0.046
40	40	45	20	JR40x45x20	0.052
45	45	50	25	JR45x50x25	0.073
50	50	60	25	JR50x60x25	0.17
7	7	10	16	JR7x10x16	0.005
9	9	12	16	JR9x12x16	0.006



NK ($\phi F_w \geq 12$), NKS, RNA48,
RNA49, RNA69 ($\phi F_w \leq 35$)

Shaft Dia	Boundary Dimensions (mm)				Bearing no.	Basic load ratings (kN)		Fatigue Load limit (kN) Cu	Limiting speed (min-1)		Mass Kg
	Fw	D	C	r min		Cr	Cor		Grease	Oil	
25	25	38	20	0.6	NKS25	29.1	33	5.3	12 000	19 000	0.076
28	28	42	20	0.6	NKS28	30.3	38.4	6.15	11 000	16 000	0.094
30	30	45	20	0.6	NKS30	34.3	42.8	6.85	9 900	15 000	0.114
32	32	47	22	0.6	NKS32	36	46.2	7.4	9 200	14 000	0.12
35	35	50	22	0.6	NKS35	37.5	49.9	8	8 400	13 000	0.13
37	37	52	22	0.6	NKS37	39	53.4	8.55	7 900	12 000	0.134
40	40	55	22	0.6	NKS40	40.3	57	9.15	7 200	11 000	0.14
45	45	60	22	0.6	NKS45	43	64.2	10.3	6 400	9 800	0.156
50	50	65	22	1	NKS50	45.5	71.3	11.4	5 700	8 700	0.17
55	55	72	22	1	NKS55	47.9	78.4	12.6	5 100	7 900	0.225
60	60	80	28	1.1	NKS60	66.9	103	16.5	4 800	7 300	0.337
75	75	95	28	1.1	NKS75	76.5	132	21.1	3 700	5 800	0.413

Trailer Bearings Kits

Koyo Premium Trailer Bearing Kits

Koyo



Koyo Premium Trailer Bearing Kits (with Seagull Oil Seals)

Type	Part	Bearings	Bearings	Seal	Split Pin	Dust Cap
Ford Marine Kit	TBK-FM/KOYO	Set 12	Set 13	PR6692	Yes	Yes
Holden Marine Kit	TBK-HM/KOYO	Set 2	Set 6	PR6641	Yes	Yes
Ford Trailer Kit	TBK-FR/KOYO	Set 12	Set 13	C610	Yes	Yes
Holden Trailer Kit	TBK-HR/KOYO	Set 2	Set 6	C609A	Yes	Yes

Trailer Bearing Kits

NBR Trailer Bearing Kits

NBR
BEARINGS



NBR Trailer Bearing Kits (with Seagull Oil Seals)

Type	Part	Bearings	Bearings	Seal	Split Pin
Ford Marine Kit	TBK-FM/ECO	Set 12	Set 13	PR6692	Yes
Holden Marine Kit	TBK-HM/ECO	Set 2	Set 6	PR6641	Yes
Ford Trailer Kit	TBK-FR/ECO	Set 12	Set 13	C610	Yes
Holden Marine Kit	TBK-HR/ECO	Set 2	Set 6	C609A	Yes

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Roller Followers Separable with Inner Ring and Crowded Outer Metric STO Series
ST06
ST08
ST010
ST012
ST017
ST020
ST025
ST030
ST035

Roller Follower Crowned Yoke Assembly Metric NA Series
NA22/6-2RS
NA22/8-2RS
NA2200-2RS
NA2201-2RS
NA2202-2RS
NA2203-2RS
NA2204-2RS
NA2205-2RS
NA2206-2RS
NA2207-2RS
NA2208-2RS
NA2209-2RS
NA2210-2RS

Roller Follower Full Compliment Cylindrical Outer Ring Metric NUTR-DZ Series
NUTR15DZ
NUTR17DZ
NUTR3072DZ
NUTR30DZ
NUTR3580DZ
NUTR35DZ
NUTR4090DZ
NUTR40DZ
NUTR45100DZ

Roller Follower Full Compliment Crowned Outer Ring Metric NUTR Series

NUTR15
NUTR17
NUTR20
NUTR2052
NUTR25
NUTR2562
NUTR30
NUTR35
NUTR40
NUTR4090
NUTR45
NUTR50
NUTR50110

Roller Follower Full Compliment Cylindrical Outer Ring Metric NUTR-DZ Series

NUTR15DZ
NUTR17DZ
NUTR3072DZ
NUTR30DZ
NUTR3580DZ
NUTR35DZ
NUTR4090DZ
NUTR40DZ
NUTR45100DZ

Roller Follower Separable with Inner Cylindrical Outer Ring Metric STO Series

STO6DZ
STO10DZ
STO12DZ
STO17DZ
STO20DZ
STO30DZ

Roller Follower Separable with Inner Ring and Crowned Outer Metric NATR Series
NATR5
NATR6
NATR8
NATR10
NATR12

Roller Follower Crowned Yoke Assembly with Cylindrical Outer Metric NA Series
NA22/6-2RS-DZ
NA22/8-2RS-DZ
NA2200-2RS-DZ
NA2201-2RS-DZ
NA2202-2RS-DZ
NA2203-2RS-DZ
NA2204-2RS-DZ
NA2205-2RS-DZ
NA2206-2RS-DZ
NA2207-2RS-DZ
NA2208-2RS-DZ
NA2209-2RS-DZ
NA2210-2RS-DZ

NA Series - Machined Type Needle Roller
NA4822
NA4828
NA49/22

YCRS Series - Crowned Yoke Assembly - Inch
YCRS-14
YCRS-24
YCRS-30

Cam Follower Cylindrical Outer Inch CRSB Series
CRSB-40
CRSB-44
CRSB-48
CRSB-52
CRSB-56
CRSB-64

Cam Follower Crowned Outer Hex Head Metric NUKR Series
NUKR35-2SK
NUKR40-2SK
NUKR47-2SK
NUKR52-2SK/KOYO
NUKR62-2SK/KOYO
NUKR72-2SK/KOYO

Drawn Cup Roller Clutch Metric FCB Series
FCB-8
FCB-10
FCB-12
FCB-16
FCB-20
FCB-25
FCB-30

Drawn Cup Roller Clutch Inch RCB Series
RCB-061014
RCB-081214
RCB-101416
RCB-121616
RCB-162117

Also In Stock

Needle Roller Shell Type (Drawn Cup) Inch



B Inch Series			
B-45	B-98	B-1416	B-2412
B-47	B-910	B-1418	B-2416
B-55	B-912	B-1516	B-2420
B-56	B-108	B-166	B-2610
B-610	B-1010	B-168	B-2620
B-66	B-1012	B-1612	B-2816
B-67	B-116	B-1616	B-2820
B-68	B-118	B-1710	B-3012
B-69	B-1110	B-188	B-3016
B-78	B-1112	B-1812	B-3216
B-710	B-126	B-1816	B-3412
B-85	B-128	B-2010	B-3416
B-86	B-1210	B-2012	B-3612
B-87	B-1212	B-2016	B-4216
B-88	B-136	B-2020	B-4416
B-810	B-1314	B-2212	
B-812	B-1316	B-2216	
B-96	B-1412	B-2220	

BH Heavy Series	
BH-68	BH-1612
BH-78	BH-1616
BH-810	BH-1620
BH-812	BH-1624
BH-1010	BH-1812
BH-1012	BH-1816
BH-1016	BH-1820
BH-1110	BH-2012
BH-1112	BH-2016
BH-1312	BH-2020
BH-1410	BH-2210
BH-1412	BH-2212
BH-1416	BH-2216
BH-168	BH-2220
BH-1610	
BH-1610	

NKJ Series Heavy Duty
NKJS25
NKJS30
NKJS35
NKJS40
NKJS45
NKJS50
NKJS55
NKJS60
NKJS65
NKJS70

NKJ Series		
NKJ45/35	NKJ6/16	NKJ22/20
NKJ50/35	NKJ7/12	NKJ25/20
NKJ60/35	NKJ7/16TN	NKJ25/30
NKJ65/25	NKJ9/12	NKJ28/20
NKJ70/25	NKJ9/16	NKJ28/30
NKJ70/35	NKJ12/16	NKJ30/20
NKJ80/25	NKJ12/20	NKJ30/30
NKJ85/26	NKJ15/16	NKJ32/20
NKJ85/36	NKJ15/20	NKJ32/30
NKJ90/26	NKJ17/16	NKJ35/20
NKJ95/26	NKJ17/20	NKJ35/30
	NKJ20/16	NKJ40/20
	NKJ20/20	NKJ40/30
	NKJS20	NKJ42/30
	NKJ22/16	NKJ45/25

Also In Stock Automotive Bearings



Automotive Bearings
TR0608
TR0708-1R
TR080803
TR0809-A
TR100802
TR131305R
TR0607J-1LFT
TR070904
DAC3464W-52RSCS44

