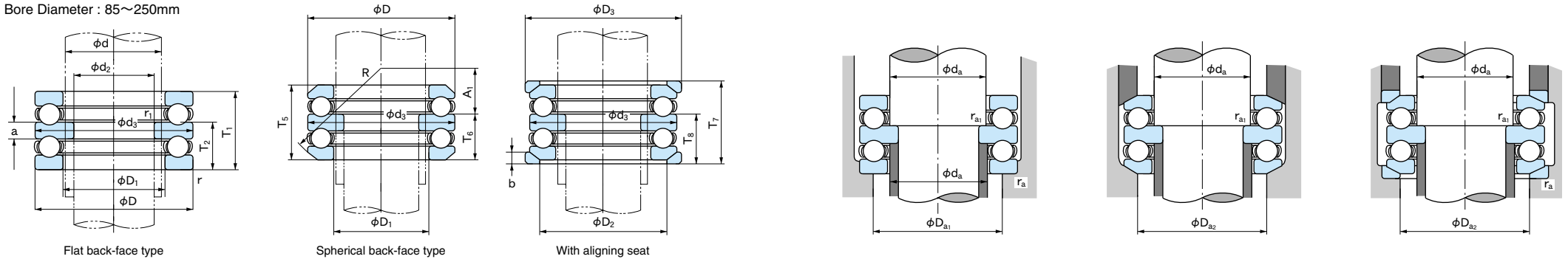


Double-direction Thrust Ball Bearings

Bore Diameter : 85~250mm



1N=0.102kgf

d	Boundary dimensions (mm)						Bearing No.			Basic dynamic load rating		Basic static load rating		Limiting speed (rpm)		Dimensions (mm)								Abutment and fillet dimensions (mm)					Mass (kg) Reference			Bearing No.		
	d ₂	D	T ₁	T ₅	T ₇	r (min)	r ₁ (min)	Flat back face type	Spherical back face type	With aligning seat	Ca (N)	Coa (N)	Grease lubrication	Oil lubrication	d ₃ (max)	D ₁ (min)	D ₂	D ₃	T ₂	T ₆	T ₈	a	b	A ₁	R	d _a (min)	D _{a1} (max)	D _{a2} (max)	r _a (max)	r _{a1} (max)	Flat back face type		Spherical back face type	With aligning seat
	85	70 150 65	125 87 180	55 128 138	59.2 95.2 150	67 105 150	1.5 2.1 1.1	1 1 1	52217 52317 52417	54217 54317 54417	54217U 54317U 54417U	95500 206000 288000	264000 490000 685000	1600 1100 850	2400 1700 1200	125 150 197.5	88 88 88	105 115 130	130 155 185	33.5 53 78.5	35.6 57.1 83.5	39.5 62 89.5	12 19 29	11 17.5 23	49.5 39 40.5	100 112 140	85 85 85	101 115 123	105 115 130	1 1.5 2	1 1.5 2		2.34 6.43 17.5	2.34 6.41 6.3
90	75 155 70	135 88 190	62 97.2 135	69 106 143.4	76 106 157	1.1 1.5 2.1	1 1 1	52218 52318 52418	54218 54318 54418	54218U 54318U 54418U	116000 213000 305000	325000 525000 750000	1400 1100 790	2100 1600 1100	135 135 189.5	93 93 93	110 120 140	140 160 195	38 53.5 82.5	41 58.1 86.7	45 62.5 93.5	14 19 30	13.5 18 25.5	42 36.5 34.5	100 112 140	90 116 120	108 120 140	110 120 140	1 1.5 2	1 1.5 2	3.22 6.60 19.6	3.25 6.62 19.1	4.12 8.33 23.0	52218 52318 52418
100	85 170 80	150 97 150	67 105.4 150	72.8 115 176	81 115 176	1.1 1.5 3	1 1 1	52220 52320 52420	54220 54320 54420	54220U 54320U 54420U	146000 236000 345000	410000 595000 895000	1300 1000 710	1900 1500 1000	150 170 209.5	103 103 103	125 135 155	155 175 220	41 59 91.5	43.9 63.2 96.5	48 68 104.5	15 18 33	14 18 27	49 42 43.5	112 125 160	100 128 100	120 135 144	125 135 155	1 1.5 2.5	1 1.5 2	4.29 8.90 26.6	4.29 8.92 26.2	5.32 10.8 32.0	52220 52320 52420
110	95 190 90	160 110 230	67 118.4 166	71.4 128	81 128	1.1 2 3	1 1 1.1	52222 52322 52422	54222 54322	54222U 54322U	153000 268000 435000	450000 705000 1240000	1200 880 640	1900 1300 960	160 189.5 229	113 113 113	135 150	165 195	41 67 101.5	43.2 71.2 —	48 76 —	15 24 37	14 20.5 —	62 47 —	125 140 110	130 142 158	135 150 2	1 2 2.5	1 1 1	4.68 13.8 34.9	4.60 13.7 —	5.74 16.3 —	52222 52322 52422	
120	100 100 95	170 210 250	68 123 177	71.6 131.2 —	82 143	1.1 2.1 4	1 1 1.5	52224 52324 52424	54224 54324	54224U 54324U	152000 267000 455000	470000 870000 1340000	1200 790 580	1800 1100 880	170 209.5 249	123 123 123	145 165 —	175 220 —	41.5 75 108.5	43.3 79.1 —	48.5 85 —	15 27 40	15 22 —	58.5 58 —	125 160 —	120 156 172	140 165 —	145 175 —	1 1.5 3	1 1.5 1.5	5.24 17.2 44.2	5.04 16.9 —	6.36 21.0 —	52224 52324 52424
130	110 110 100	190 225 270	80 130 192	85.8 —	96 —	1.5 2.1 4	1 1 2	52226 52326 52426	54226	54226U	203000 330000 555000	620000 960000 1750000	1000 730 540	1500 1100 810	189.5 224 269	133 134 134	160 —	195 —	49 80 117	51.9 — —	57 — —	18 30 42	17 — —	63 — —	140 130 130	154 168 186	160 — —	150 2 3	1.5 2 2	1 1 2	7.72 22.1 56.5	7.58 — —	9.43 — —	52226 52326 52426
140	120 120 110	200 240 280	81 140 196	86.2 —	99 —	1.5 2.1 4	1 1 2	52228 52328 52428	54228	54228U	205000 350000 545000	650000 1050000 1750000	1000 680 520	1500 1000 780	199.5 239 279	143 144 144	170 —	210 —	49.5 85.5 120	52.1 — —	58.5 — —	18 31 44	17 — —	83.5 — —	160 140 140	164 180 196	170 — —	1.5 2 3	1 2 2	8.93 27.8 60.6	8.79 — —	11.3 — —	52228 52328 52428	
150	130 130 120	215 250 300	89 140 209	95.6 —	109 —	1.5 2.1 4	1 1 2	52230 52330 52430	54230	54230U	213000 360000 615000	650000 1130000 2010000	940 670 480	1400 1000 720	214.5 249 299	153 154 153	180 —	225 —	54.5 85.5 127.5	57.8 — —	64.5 — —	20 31 46	20.5 — —	74.5 — —	160 150 150	176 190 210	180 — —	1.5 2 3	1 2 2	10.6 29.2 73.9	10.3 — —	13.8 — —	52230 52330 52430	
160	140 140 130	225 270 320	90 153 226	97.4 —	110 —	1.5 3 5	1 1 2	52232 52334 52432	54232	54232U	223000 410000 680000	720000 1340000 2410000	900 610 440	1300 920 670	224.5 269 319	163 164 164	190 —	235 —	55 93 138	58.7 — —	65 — 50	20 33 50	21 — —	70 — —	160 160 160	186 204 224	190 — —	1.5 2.5 4	1 1 2	12.2 37.7 90.3	11.9 — —	15.6 — —	52232 52334 52432	
170	150 150 135	240 280 340	97 153 236	104.4 —	117 —	1.5 3 5	1 1 2.1	52234 52334 52434	54234	54234U	261000 420000 755000	835000 1430000 2730000	840 600 420	1200 900 630	239.5 279 339	173 174 174	200 —	250 —	59 93 143	62.7 — —	69 — —	21 33 50	21.5 — —	87 — —	180 170 170	198 214 238	200 — —	1.5 2.5 4	1 2 2	15.2 39.8 108	14.7 — —	19.1 — —	52234 52334 52434	
180	150 150 140	250 300 360	98 165 245	102.4 —	118 —	1.5 3 5	2 2 3	52236 52336 52436	54236	54236U	266000 485000 785000	875000 1700000 2980000	810 550 400	1200 820 600	249 299 359	183 184 184	210 —	260 —	59.5 101 148.5	61.7 — —	69.5 — —	21 37 52	21.5 — —	108.5 — —	200 180 180	208 228 252	210 — —	1.5 2.5 4	2 2 2.5	16.0 50.9 126	15.2 — —	19.9 — —	52236 52336 52436	
190	160 160	270 320	109 183	116.4 —	131 —	2 4	2 2	52238 52338	54238	54238U	310000 570000	1060000 2100000	740 500	1100 750	269 319	194 195	230 —	280 —	66.5 111.5	70.2 —	77.5 —	24 40	23 —	93.5 —	200 190	222 242	230 —	2 3	2 2	21.6 64.9	21.2 —	26.5 —	52238 52338	
200	170 170	280 340	109 192	115.6 —	133 —	2 4	2 2	52240 52340	54240	54240U	315000 625000	1110000 2380000	720 470	1000 710	279 339	204 205	240 —	290 —	66.5 117	69.8 —	78.5 —	24 42	23 —	120.5 —	225 200	232 256	240 —	2 3	2 2	22.7 77.8	22.3 —	28.0 —	52240 52340	
220	190	300	110	115.2	134	2	2	52244	54244	54244U	325000	1210000	690	1000	299	224	260	310	67	69.6	79	24	25	114	225	220	252	260	2	2	23.9	22.9	29.6	52244