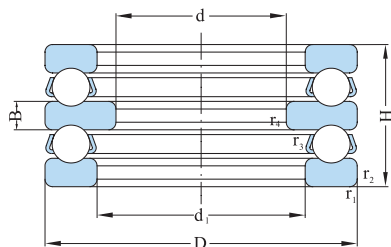
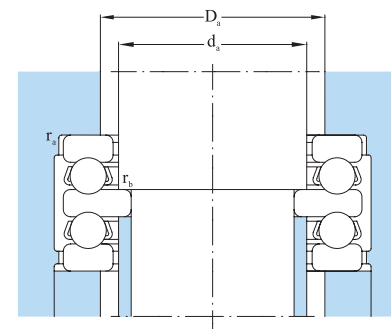


Thrust ball bearings Double direction

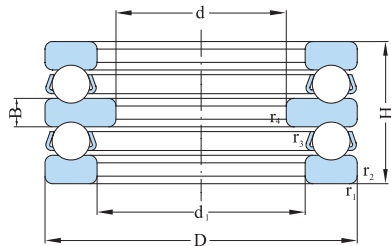


Designations	Boundary dimensions						
	d	d ₁ min	D	H	B	r _{1,2} min	r _{3,4} min
	mm						
52202	10	17	32	22	5	0.6	0.3
52204	15	22	40	26	6	0.6	0.3
52405		27	60	45	11	1.0	0.6
52205	20	27	47	28	7	0.6	0.3
52305		27	52	34	8	1.0	0.3
52406		32	70	52	12	1.0	0.6
52206	25	32	52	29	7	0.6	0.3
52306		32	60	38	9	1.0	0.3
52407		37	80	59	14	1.1	0.6
52207	30	37	62	34	8	1.0	0.3
52208		42	68	36	9	1.0	0.6
52307		37	68	44	10	1.0	0.3
52308		42	78	49	12	1.0	0.6
52408	35	42	90	65	15	1.1	0.6
52209		47	73	37	9	1.0	0.6
52309		47	85	52	12	1.0	0.6
52409	40	47	100	72	17	1.1	0.6
52210		52	78	39	9	1.0	0.6
52310		52	95	58	14	1.1	0.6
52410	45	52	110	78	18	1.5	0.6
52211		57	90	45	10	1.0	0.6
52311		57	105	64	15	1.1	0.6
52411	50	57	120	87	20	1.5	0.6
52212		62	95	46	10	1.0	0.6
52312		62	110	64	15	1.1	0.6
52412	55	62	130	93	21	1.5	0.6
52413		68	140	101	23	2.0	1.0
52213		67	100	47	10	1.0	0.6
52214	55	72	105	47	10	1.0	1.0
52313		67	115	65	15	1.1	0.6
52314		72	125	72	16	1.1	1.0
52414		73	150	107	24	2.0	1.0

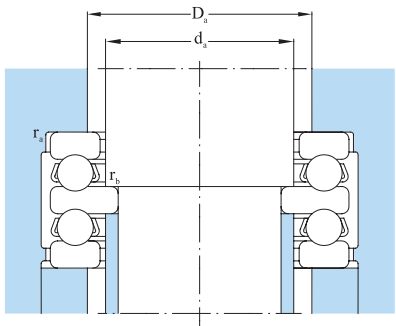


Basic load ratings		Limiting speeds		Abutment and fillet dimensions				Mass
Ca	Coa	Grease	Oil	d _a min	D _a max	r _a max	r _b max	(flat housing washer)
kN		r/min		mm				kg
13.4	14.5	5300	7000	15	22	0.6	0.3	0.0818
21.1	23.9	4500	6000	20	28	0.6	0.3	0.1410
55.4	59.8	2600	3600	25	42	1.0	0.6	0.6410
27.7	36.3	4000	5300	25	34	0.6	0.3	0.2070
35.7	42.1	3400	4500	25	36	1.0	0.3	0.3300
72.2	81.0	2000	3000	30	46	1.0	0.6	1.0000
29.3	43.8	3600	4800	30	39	0.6	0.3	0.2490
47.1	57.2	2800	3800	30	42	1.0	0.3	0.4700
86.4	102	1800	2600	35	53	1.0	0.6	1.4500
39.1	58.6	3000	4000	35	46	1.0	0.3	0.4030
47	74.1	2800	3800	40	51	1.0	0.6	0.5290
55.4	73.9	2400	3400	35	48	1.0	0.3	0.6800
68.9	95.8	2000	3000	40	55	1.0	0.6	1.0500
112	133	1700	2400	40	60	1.0	0.6	2.0500
47.5	81.5	2600	3600	45	56	1.0	0.6	0.5970
79.5	118	1900	2800	45	61	1.0	0.6	1.2500
130	240	1600	2200	45	67	1.0	0.6	2.7000
54.4	94.4	2400	3400	50	61	1.0	0.6	0.6850
96.2	146	1800	2600	50	68	1.0	0.6	1.7500
159	310	1400	2000	50	80	1.5	0.6	3.5100
69.4	123	1900	2800	55	69	1.0	0.6	1.0900
126	189	1600	2200	55	75	1.0	0.6	2.4000
178	360	1300	1800	55	81	1.5	0.6	4.7000
70.6	133	1900	2800	60	74	1.0	0.6	1.2000
129	209	1600	2200	60	80	1.0	0.6	2.5500
199	400	1100	1600	60	88	1.5	0.6	6.3500
216	450	1000	1500	65	100	2.0	1.0	7.4100
72	144	1800	2600	65	79	1.0	0.6	1.2900
76	162	1800	2600	70	88	1.0	1.0	1.4400
139	229	1500	2000	65	85	1.0	0.6	2.7500
161	268	1400	1900	70	92	1.0	1.0	3.6500
234	500	950	1400	70	110	2.0	1.0	8.9900

Thrust ball bearings Double direction



Designations	Boundary dimensions						
	d	d_1 min	D	H	B	$r_{1,2}$ min	$r_{3,4}$ min
	mm						
52215	60	77	110	47	10	1.0	1.0
52315		77	135	79	18	1.5	1.0
52415		78	160	115	26	2.0	1.0
52216	65	82	115	48	10	1.0	1.0
52316		82	140	79	18	1.5	1.0
52416		83	170	120	27	2.1	1.0
52417	70	88	180	128	29	2.1	1.1
52217		88	125	55	12	1.0	1.0
52317		88	150	87	19	1.5	1.0
52418	75	93	190	135	30	2.1	1.1
52218		93	135	62	14	1.1	1.0
52318		93	155	88	19	1.5	1.0
52420M	80	103	210	150	33	3.0	1.1
52420		103	210	150	33	3.0	1.1
52220		103	150	67	15	1.1	1.0
52320	85	103	170	97	21	1.5	1.0
53422		113	230	166	37	3.0	1.1
52222		113	160	67	15	1.1	1.0
52322M	95	113	190	110	24	2.0	1.0
52322		113	190	110	24	2.0	1.0
52324		123	210	123	27	2.1	1.1
52228M	120	143	200	81	18	1.5	1.1
53430		154	300	209	46	4.0	2.0
52230		153	215	89	20	1.5	1.1
52330M	130	154	250	140	31	2.1	2.1
52330		154	250	140	31	2.1	2.1
52232M		163	225	90	20	1.5	1.1
52232	140	163	225	90	20	1.5	1.1
52236M		183	250	98	21	1.5	2.0
52236		183	250	98	21	1.5	2.0
52336M	150	184	300	165	37	3.0	2.0
52238		194	270	109	24	2.0	2.0

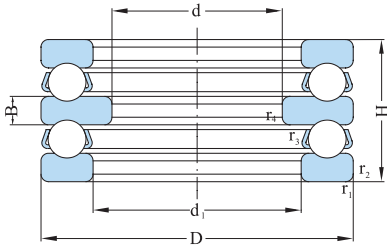


Basic load ratings		Limiting speeds		Abutment and fillet dimensions				Mass
C_a	C_{oa}	Grease	Oil	d_a min	D_a max	r_a max	r_b max	(flat housing washer)
kN		r/min		mm				kg
77.1	172	1700	2400	75	89	1.0	1.0	1.5500
184	311	1200	1700	75	99	1.5	1.0	4.8000
251	560	900	1300	75	115	2.0	1.0	10.800
86.4	193	1700	2400	80	94	1.0	1.0	1.6400
189	339	1200	1700	80	104	1.5	1.0	4.9400
270	620	850	1200	80	125	2.0	1.0	12.600
286	680	850	1200	85	130	2.0	1.0	15.400
97.9	229	1600	2200	85	101	1.0	1.0	2.4000
215	389	1100	1600	85	115	1.5	1.0	6.3800
307	750	800	1100	90	140	2.0	1.0	17.500
125	277	1500	2000	90	108	1.0	1.0	3.2000
232	410	1000	1500	90	120	1.5	1.0	6.7900
345	775							25.300
371	965	700	950	100	155	2.5	1.0	26.800
155	341	1300	1800	100	125	1.0	1.0	4.2000
229	560	950	1400	100	135	1.5	1.0	8.9500
377	900							33.400
131	393	2800	3700	110	130	1.0	1.0	4.5100
234	588							13.200
234	588							12.900
268	711							17.300
174	543	700	950	140	164	1.5	1.0	8.6700
518	1479							70.300
202	651							10.300
330	1021	560	670	150	191	2.0	1.0	31.200
330	1021	560	670	150	191	2.0	1.0	29.400
205	692	600	850					11.800
205	692	590	820	160	186	1.5	1.0	11.700
227	825	520	800					15.600
227	825	520	800	180	208	1.5	2.0	14.300
396	1436			180	208	1.5	2.0	48.800
275	1019							21.400

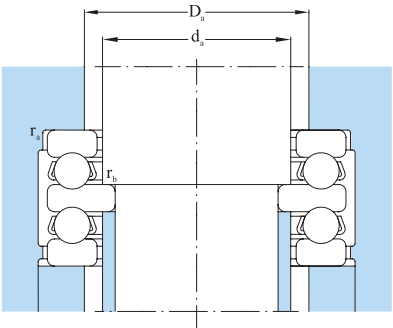
Thrust ball bearings
Double direction



Harbin Bearing
Group Corporation



Designations	Boundary dimensions						
	d	d ₁ min	D	H	B	r _{1,2} min	r _{3,4} min
	mm						
38238K	160	194	270	109	24	2.0	2.0
52240	170	204	280	109	24	2.0	2.0
38768	300	340	400	80	18	1.8	1.3
387/615	570	615	700	90	20	3.0	1.3



Basic load ratings		Limiting speeds		Abutment and fillet dimensions				Mass
Ca	Coa	Grease	Oil	d _a min	D _a max	r _a max	r _b max	(flat housing washer)
kN		r/min		mm				kg
275	1019							20.900
271	1029							22.100
129	810							21.100
139	1073							53.700

