

Double Direction Thrust Ball Bearings



The double direction thrust ball bearings have two cages with balls positioned between the central shaft washer and two housing washers with flat seating surfaces. The central shaft washer has raceways for balls on both sides and is mounted on the shaft.

The double direction thrust ball bearings can carry axial loads acting in both directions. They cannot carry radial forces.

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Dimensions								Bearing designation	Basic load ratings		Fatigue load limit	Limiting speed for lubrication with		Mass
									dynamic	static				
d ₂	D	d ₃	D ₁	H	B	r _s min	r _{1s} min		C _r	C _{or}	C _u	grease	oil	
mm									kN			min ⁻¹		kg
10	32	32	17	22	5	0.6	0.3	52202	15.4	24.0	1.09	4800	7100	0.081
15	40	40	22	26	6	0.6	0.3	52204	22.5	37.5	1.71	4000	6000	0.148
15	60	60	27	45	11	1.0	0.6	52405	56.0	89.5	4.06	3200	4600	0.636
20	47	47	27	28	7	0.6	0.3	52205	28.0	50.5	2.30	3400	5300	0.213
20	52	52	27	34	8	1.0	0.3	52305	36.0	61.5	2.80	3000	4500	0.324
20	70	70	32	52	12	1.0	0.6	52406	73.0	126.0	5.73	2700	3500	0.970
25	52	52	32	29	7	0.6	0.3	52206	29.5	58.0	2.64	3200	5000	0.254
25	60	60	32	38	9	1.0	0.3	52306	43.0	78.5	3.58	2600	4000	0.483
25	80	80	37	59	14	1.1	0.6	52407	87.5	155.0	7.05	2200	3000	1.440
30	62	62	37	34	8	0.6	0.3	52207	39.5	78.0	3.55	2800	4300	0.406
30	68	68	37	44	10	1.0	0.3	52307	56.0	105.0	4.77	2400	3600	0.710
30	68	68	42	36	9	1.0	0.6	52208	46.8	106.0	4.82	2600	4000	0.550
30	78	78	42	49	12	1.0	0.6	52308	70.0	135.0	6.14	2000	3000	1.040
30	90	90	42	65	15	1.1	0.6	52408	103.0	188.0	8.54	1900	2700	1.940
35	73	73	47	37	9	1.0	0.6	52209	48.0	105.0	4.77	2400	3600	0.606
35	85	85	47	52	12	1.0	0.6	52309	80.5	163.0	7.41	1900	2800	1.280
35	100	100	47	72	17	1.1	0.6	52409	128.0	246.0	11.18	1800	2500	2.640
40	78	78	52	39	9	1.0	0.6	52210	49.0	111.0	5.05	2400	3400	0.697
40	95	95	52	58	14	1.1	0.6	52310	97.5	202.0	9.18	1700	2600	1.780
40	110	100	52	78	18	1.5	0.6	52410	147.0	288.0	13.09	1600	2400	3.510
45	90	90	57	45	10	1.0	0.6	52211	70.0	159.0	7.23	2000	3000	1.110
45	105	105	57	64	15	1.1	0.6	52311	115.0	244.0	11.18	1500	2400	2.430
45	120	120	57	87	20	1.5	0.6	52411	181.0	350.0	15.91	1400	2100	4.540
50	95	95	62	46	10	1.0	0.6	52212	71.5	169.0	7.68	1900	3000	1.220
50	110	110	62	64	15	1.1	0.6	52312	119.0	263.0	11.95	1500	2200	2.590
50	130	130	62	93	21	1.5	0.6	52412	202.0	395.0	17.95	1300	1900	5.800
55	100	100	67	47	10	1.0	0.6	52213	75.5	189.0	8.59	1900	2800	1.340
55	115	115	67	65	15	1.1	0.6	52313	123.0	282.0	12.82	1400	2000	2.900
55	105	105	72	47	10	1.0	1.0	52214	74.0	189.0	8.59	1800	2800	1.440
55	125	125	72	72	16	1.1	1.0	52314	137.0	315.0	14.32	1300	1900	3.640
60	110	110	77	47	10	1.0	1.0	52215	78.0	209.0	9.50	1800	2600	1.540
60	135	135	77	79	18	1.5	1.0	52315	159.0	365.0	16.59	1200	1800	4.720
65	115	115	82	48	10	1.0	1.0	52216	79.0	218.0	9.95	1700	2600	1.660

Dimensions								Bearing designation	Basic load ratings		Fatigue load limit	Limiting speed for lubrication with		Mass
									dynamic	static				
d ₂	D	d ₃	D ₁	H	B	r _{s min}	r _{1s min}		C _r	C _{or}	C _u	grease	oil	
mm									kN			min ⁻¹		
70	125	125	88	55	12	1.0	1.0	52217	96.0	264.0	12.00	1500	2200	2.260
75	135	135	93	62	14	1.1	1.0	52218	114.0	310.0	14.09	1400	2000	3.090