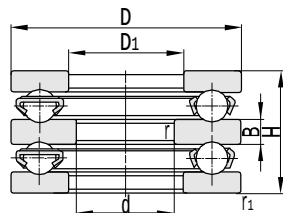


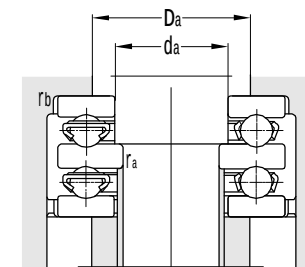
Double-direction Thrust Ball Bearing

ZWZ

d 25–95 mm



Principal dimensions				Basic load ratings		Limit speed ratings		
d	D	H	r _{min}	r _{1min}	C _r	C _{or}	Grease	Oil
mm					kN		r/min	
25	52	29	0.6	0.3	27.3	50.0	5000	6500
30	62	34	1	0.3	37.0	73.0	4800	6000
	68	44	1	0.3	88.5	148	4600	5800
	68	36	1	0.6	47	102.0	4500	5900
35	73	37	1	0.6	48.0	85.0	4200	5300
40	78	39	1	0.6	54.5	114	4000	5100
45	90	45	1	0.6	69.0	143	3800	5000
	120	87	1.5	0.6	191	385	3700	4900
50	95	46	1	0.6	74.0	147	3600	4800
55	100	47	1	0.6	75.5	160	3500	4700
	105	47	1	1	76.5	170	3400	4600
	125	72	1.1	1	148	315	3300	4500
	150	107	2	1	257	539	3250	4400
65	115	48	1	1	87.1	204	3300	4500
	180	128	1.1	1.1	545	1070	3100	4200
70	125	55	1	1	112	270	3200	4300
75	135	62	1.1	1	133	320	3100	4200
80	210	150	3	1.1	730	1550	3100	4100
	210	150	3	1.1	685	1470	3100	4100
85	150	67	1.1	1	163	340	3000	4000
	170	97	1.5	1	276	595	2950	3900
90	230	166	3	1.1	795	1800	2900	3800
95	160	67	1.1	1	170	395	2800	3700

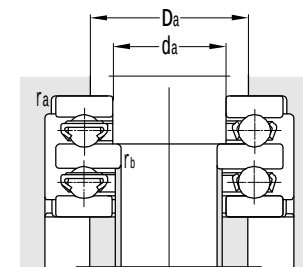
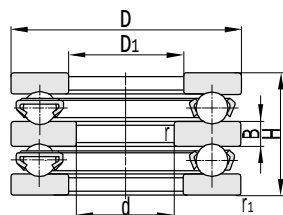


Designations	Other dimensions		Abutment and fillet dimensions				Weight
	D1	B	d _{amin}	D _{amax}	r _{amax}	r _{bmax}	
	mm		mm				kg
52206	32	7	30	39	0.3	0.6	0.261
52207	37	8	35	46	0.3	1	0.354
52307	37	10	35	48	0.3	1	0.674
52208	42	9	40	51	0.6	1	0.496
52209	47	9	45	56	0.6	1	0.623
52210	52	9	50	61	0.6	1	0.722
52211 52411M	57	10	55	69	0.6	1	1.06
	57	20	53	81	0.6	1.5	4.87
52212	62	10	60	74	0.6	1	1.25
52213 52214 52314 52414M	67	10	65	79	0.6	1	1.29
	72	10	64	102	1	1	1.37
	72	16	70	92	1	1	3.65
	73	24	70	124	1	2	9.15
52216 52417M	82	10	80	94	1	1	1.73
	88	29	86	124	1	1	16.0
52217	88	12	85	101	1	1	2.19
52218	93	14	90	108	1	1	3.11
52420M 52420	103	33	101	145	1	3	25.3
	103	33	101	145	1	3	24.4
52220 52320	103	15	100	120	1	1	4.05
	103	21	100	128	1	1	8.81
52422M	113	37	110	159	1	3	33.4
52222	113	15	110	130	1	1	4.51

Double-direction Thrust Ball Bearing

ZWZ

d 95–570 mm



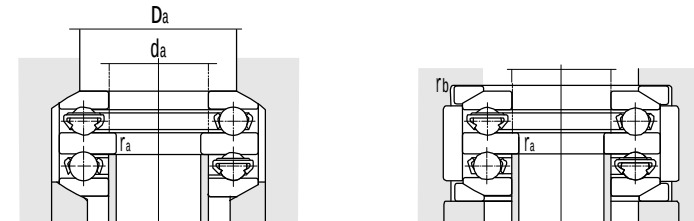
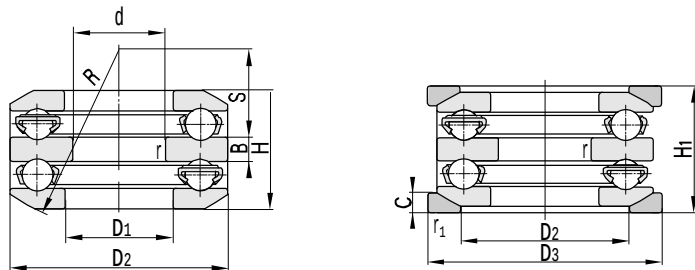
Principal dimensions				Basic load ratings		Limit speed ratings		
d	D	H	r _{min}	r _{1min}	C _r	C _{or}	Grease	Oil
mm					kN		r/min	
95	190	110	2	1	305	590	2700	3500
	190	110	2	1	305	590	2700	3500
	190	110	2	1	305	590	2700	3500
	250	177	4	1.5	1380	4140	2600	3300
100	170	68	1.1	1.1	137	430	2400	3000
	210	123	2.1	1.1	565	1420	2300	2800
110	190	80	1.5	1.1	230	575	2000	2500
	280	196	2	2	1020	2630	1600	2200
120	200	81	1.5	1.1	365	1090	1300	1800
	200	81	1.5	1.1	365	1090	1300	1800
	300	209	4	2	1100	2960	1000	1600
130	215	89	1.5	1.1	425	1300	900	1400
	250	140	2.1	2.1	430	1020	800	1200
	250	140	2.1	2.1	430	1020	800	1200
140	225	90	1.5	1.1	430	1380	700	1000
	225	90	1.5	1.1	430	1380	700	1000
150	250	98	1.5	2	760	3300	590	820
	250	98	1.5	2	760	3300	590	820
	300	165	3	2	835	2780	520	800
160	270	109	2	2	920	4080	500	760
	270	109	2	2	920	4080	500	760
170	280	109	2	2	910	4110	460	720
	340	192	4	2	1070	3730	430	680
300	400	80	1.8	1.3	430	3240	350	550
469.5	570	84	2	2	365	2720	230	360
570	700	90	3	1.3	292	2150	200	320

Designations	Other dimensions		Abutment and fillet dimensions				Weight
	D1	B	d _{amin}	D _{amax}	r _{amax}	r _{bmax}	
	mm		mm				kg
52322M	113	24	110	142	1	2	13.2
52322	113	24	110	142	1	2	12.9
52322U	113	24	110	142	1	2	13.22
52424M	249	40	246	173	1.5	4	42.1
52224	123	15	120	140	1	1	4.94
52324	123	21	120	157	1	2	17.3
52226M	133	18	130	156	1	1.5	8.60
52428	279	44	276	197	2	2	56.8
52228M	143	18	140	164	1	1.5	8.67
52228	143	18	143	164	1	1.5	8.37
52430	154	46	151	211	2	4	70.3
52230	153	20	150	176	1	1.5	10.3
52330M	154	31	150	176	1	2	31.2
52330	154	31	150	176	1	2	29.4
52232M	163	20	160	186	1	1.5	11.8
52232	163	20	160	186	1	1.5	11.7
52236M	183	21	180	208	2	1.5	15.6
52236	183	21	180	208	2	1.5	14.3
52336	184	37	180	208	2	3	48.8
52238	194	24	191	222	2	2	21.4
52238J	194	24	191	222	2	2	20.9
52240	204	24	201	232	2	2	22.1
52340	105	42	102	258	2	4	59.3
52768	340	18	337	388	1	1.5	21.2
52794X	499	29	493	557	2	2	39.9
527/615F1	615	20	612	684	1	3	53.7

Double-direction Thrust Ball Bearing With Aligning Seat and Washer

ZWZ

d 30~100 mm



Principal dimensions					Basic load ratings		Designations
d	D	T	r _{min}	r _{1min}	C _r	C _{or}	
mm					kN		
30	68	47.2	1	0.3	90.2	147	54307+U307
40	64	35.4	0.6	0.6	41.1	99.3	54208+U208
85	170	105.4	1.5	1	450	1030	54320+U320
100	210	131.2	2.1	2.1	565	1420	54324M+U324
	210	131.2	2.1	2.1	565	1420	54324+U324

Other dimensions								Abutment and fillet dimensions				Weight
D1	D2	D3	b	C	H1	R	S	d _{amin}	D _{amax}	r _{amax}	r _{bmax}	
mm								mm				kg
37	52	72	10	7.5	52	56	21	35	52	0.3	1	0.909
42	48	69	7	7	42	50	20.9	40	48	0.6	1	0.563
103	135	175	21	18	115	125	42	100	135	1	1.5	10.8
123	165	220	27	22	143	160	58	120	165	2	2	23.0
123	165	220	27	22	143	160	58	120	165	2	2	22.2