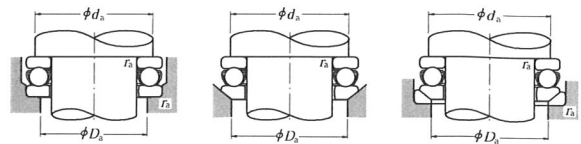
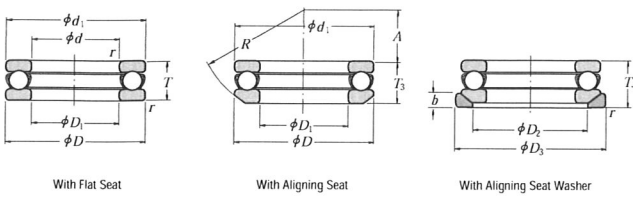


SINGLE-DIRECTION THRUST BALL BEARINGS

Bore Diameter 10 - 50 mm



d	Boundary Dimensions (mm)					Basic Load Ratings (N)				Limiting Speeds (min ⁻¹)		With Flat Seat
	D	T	T ₃	T ₄	r min.	C _a	C _{0a}	C _a [kgf]	C _{0a} [kgf]	Grease	Oil	
10	24	9	—	—	0.3	10 100	14 000	1 030	1 420	6 700	10 000	51100
26	11	11.6	13	0.6	12 800	17 100	1 300	1 740	6 000	9 000	51200	
12	26	9	—	—	0.3	10 400	15 400	1 060	1 570	6 700	10 000	51101
28	11	11.4	13	0.6	13 300	19 000	1 350	1 940	5 600	8 500	51201	
15	28	9	—	—	0.3	10 600	16 800	1 080	1 710	6 300	9 500	51102
32	12	13.3	15	0.6	16 700	24 800	1 710	2 530	5 000	7 500	51202	
17	30	9	—	—	0.3	11 400	19 500	1 170	1 990	6 000	9 000	51103
35	12	13.2	15	0.6	17 300	27 300	1 760	2 780	4 800	7 500	51203	
20	35	10	—	—	0.3	15 100	26 600	1 540	2 710	5 300	8 000	51104
40	14	14.7	17	0.6	22 500	37 500	2 290	3 850	4 300	6 300	51204	
25	42	11	—	—	0.6	19 700	37 000	2 010	3 800	4 800	7 100	51105
47	15	16.7	19	0.6	28 000	50 500	2 860	5 150	3 800	5 600	51205	
52	18	19.8	22	1	36 000	61 500	3 650	6 250	3 200	5 000	51305	
60	24	26.4	29	1	56 000	89 500	5 700	9 100	2 600	4 000	51405	
30	47	11	—	—	0.6	20 600	42 000	2 100	4 300	4 300	6 700	51106
52	16	17.8	20	0.6	29 500	58 000	3 000	5 950	3 400	5 300	51206	
60	21	22.6	25	1	43 000	78 500	4 400	8 000	2 800	4 300	51306	
70	28	30.1	33	1	73 000	126 000	7 450	12 800	2 200	3 400	51406	
35	52	12	—	—	0.6	22 100	49 500	2 250	5 050	4 000	6 000	51107
62	18	19.9	22	1	39 500	78 000	4 050	7 950	3 000	4 500	51207	
86	24	25.6	28	1	56 000	105 000	5 700	10 700	2 400	3 800	51307	
80	32	34	37	1.1	87 500	155 000	8 950	15 800	2 000	3 000	51407	
40	60	13	—	—	0.6	27 100	63 000	2 770	6 400	3 600	5 300	51108
68	19	20.3	23	1	47 500	98 500	4 850	10 000	2 800	4 300	51208	
78	26	28.5	31	1	70 000	135 000	7 100	13 700	2 200	3 400	51308	
90	36	38.2	42	1.1	103 000	188 000	10 500	19 100	1 700	2 600	51408	
45	65	14	—	—	0.6	28 100	69 000	2 860	7 050	3 400	5 000	51109
73	20	21.3	24	1	48 000	105 000	4 900	10 700	2 600	4 000	51209	
85	28	30.1	33	1	69 500	163 000	8 200	16 700	2 000	3 000	51309	
100	39	42.4	46	1.1	128 000	246 000	13 000	25 100	1 600	2 400	51409	
50	70	14	—	—	0.6	29 000	75 500	2 960	7 700	3 200	4 800	51110
78	22	23.5	26	1	49 000	111 000	5 000	11 400	2 400	3 600	51210	
95	31	34.3	37	1.1	97 500	202 000	9 950	20 600	1 800	2 800	51310	
110	43	45.6	50	1.5	147 000	288 000	15 000	29 400	1 400	2 200	51410	

Bearing Numbers		Dimensions (mm)						Abutment and Fillet Dimensions (mm)			Mass(kg) approx.			
With Aligning Seat	With Aligning Seat Washer	d ₁	D ₁	D ₂	D ₃	b	A	R	d _a min.	D _a max.	r _a max.	With Flat Seat	With Aligning Seat	With Aligning Seat Washer
—	—	24	11	—	—	—	—	—	18	16	0.3	0.019	—	—
53200	53200 U	26	12	18	28	3.5	8.5	22	20	16	0.6	0.028	0.029	0.036
—	—	26	13	—	—	—	—	—	20	18	0.3	0.021	—	—
53201	53201 U	28	14	20	30	3.5	11.5	25	22	18	0.6	0.031	0.031	0.039
—	—	28	16	—	—	—	—	—	23	20	0.3	0.023	—	—
53202	53202 U	32	17	24	35	4	12	28	25	22	0.6	0.043	0.048	0.059
—	—	30	18	—	—	—	—	—	25	22	0.3	0.025	—	—
53203	53203 U	35	19	26	38	4	16	32	28	24	0.6	0.050	0.055	0.069
—	—	35	21	—	—	—	—	—	29	26	0.3	0.037	—	—
53204	53204 U	40	22	30	42	5	18	36	32	28	0.6	0.077	0.080	0.096
—	—	42	26	—	—	—	—	—	35	32	0.6	0.056	—	—
53205	53205 U	47	27	36	50	5.5	19	40	38	34	0.6	0.111	0.123	0.151
53305	53305 U	52	27	38	55	6	21	45	41	36	1	0.169	0.182	0.224
53405	53405 U	60	27	42	62	8	19	50	46	39	1	0.334	0.353	0.426
—	—	47	32	—	—	—	—	—	40	37	0.6	0.064	—	—
53206	53206 U	52	32	42	55	5.5	22	45	43	39	0.6	0.137	0.154	0.183
53306	53306 U	60	32	45	62	7	22	50	48	42	1	0.267	0.28	0.336
53406	53406 U	70	32	50	75	9	20	56	54	46	1	0.519	0.535	0.666
—	—	52	37	—	—	—	—	—	45	42	0.6	0.081	—	—
53207	53207 U	62	37	48	65	7	24	50	51	46	1	0.27	0.231	0.292
53307	53307 U	68	37	52	72	7.5	24	56	55	48	1	0.366	0.403	0.466
53407	53407 U	80	37	58	85	10	23	64	62	53	1	0.769	0.785	0.967
—	—	60	42	—	—	—	—	—	52	48	0.6	0.12	—	—
53208	53208 U	68	42	55	72	7	28.5	56	57	51	1	0.27	0.289	0.355
53308	53308 U	78	42	60	82	8.5	28	64	63	55	1	0.536	0.581	0.704
53408	53408 U	90	42	65	95	12	26	72	70	60	1	1.1	1.12	1.38
—	—	65	47	—	—	—	—	—	57	53	0.6	0.143	—	—
53209	53209 U	73	47	60	78	7.5	26	56	62	56	1	0.31	0.333	0.419
53309	53309 U	85	47	65	90	10	25	64	69	61	1	0.672	0.702	0.888
53409	53409 U	100	47	72	105	12.5	29	80	78	67	1	1.46	1.53	1.87
—	—	70	52	—	—	—	—	—	62	58	0.6	0.153	—	—
53210	53210 U	78	52	62	82	7.5	32.5	64	67	61	1	0.378	0.404	0.504
53310	53310 U	95	52	72	100	11	28	72	77	68	1	0.931	1.01	1.27
53410	53410 U	110	52	80	115	14	35	90	86	74	1.5	1.94	1.98	2.41