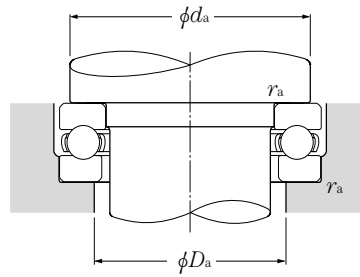
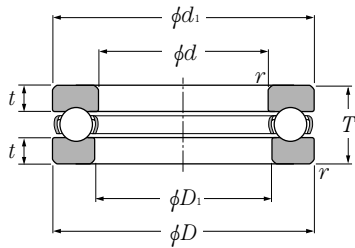


Single Direction Thrust Ball Bearings



Equivalent bearing load
dynamic

$$P_a = F_a$$

static

$$P_{0a} = F_a$$

d 10 ~ 50mm

	Boundary dimensions				Basic load ratings				Limiting speeds		Bearing numbers	Dimensions			Abutment and fillet dimensions			Mass kg (approx.)
	mm				dynamic kN		dynamic kgf		min ⁻¹			mm			mm			
d	D	T	r _s min ¹⁾	C _a	C _{0a}	C _a	C _{0a}	grease	oil	d _{1s} max ²⁾	D _{1s} min ³⁾	t	d _a min	D _a max	r _{as} max			
10	24	9	0.3	10.0	14.0	1 020	1 420	6 700	9 500	51100	24	11	2.5	18	16	0.3	0.021	
	26	11	0.6	12.7	17.1	1 290	1 740	5 800	8 300		51200	26	12	3.3	20	16	0.6	0.03
12	26	9	0.3	10.3	15.4	1 050	1 570	6 400	9 200	51101	26	13	2.5	20	18	0.3	0.023	
	28	11	0.6	13.2	19.0	1 340	1 940	5 600	8 000		51201	28	14	3.3	22	18	0.6	0.034
15	28	9	0.3	10.5	16.8	1 070	1 710	6 200	8 800	51102	28	16	2.5	23	20	0.3	0.024	
	32	12	0.6	16.6	24.8	1 690	2 530	5 000	7 100		51202	32	17	3.5	25	22	0.6	0.046
17	30	9	0.3	10.8	18.2	1 100	1 850	6 000	8 500	51103	30	18	2.5	25	22	0.3	0.026	
	35	12	0.6	17.2	27.3	1 750	2 780	4 800	6 800		51203	35	19	3.5	28	24	0.6	0.054
20	35	10	0.3	14.2	24.7	1 450	2 520	5 200	7 500	51104	35	21	2.5	29	26	0.3	0.04	
	40	14	0.6	22.3	37.5	2 270	3 850	4 100	5 900		51204	40	22	4.1	32	28	0.6	0.081
25	42	11	0.6	19.6	37.0	1 990	3 800	4 600	6 500	51105	42	26	3	35	32	0.6	0.06	
	47	15	0.6	27.8	50.5	2 830	5 150	3 700	5 300		51205	47	27	4.3	38	34	0.6	0.111
	52	18	1	35.5	61.5	3 650	6 250	3 200	4 600		51305	52	27	5	41	36	1	0.176
	60	24	1	55.5	89.5	5 650	9 100	2 600	3 700		51405	60	27	6.9	46	39	1	0.33
30	47	11	0.6	20.4	42.0	2 080	4 300	4 300	6 200	51106	47	32	3	40	37	0.6	0.069	
	52	16	0.6	29.3	58.0	2 990	5 950	3 400	4 900		51206	52	32	5	43	39	0.6	0.139
	60	21	1	43.0	78.5	4 350	8 000	2 800	3 900		51306	60	32	6.4	48	42	1	0.269
	70	28	1	72.5	126	7 400	12 800	2 200	3 200		51406	70	32	8.3	54	46	1	0.516
35	52	12	0.6	20.4	44.5	2 080	4 550	3 900	5 600	51107	52	37	3.5	45	42	0.6	0.085	
	62	18	1	39.0	78.0	4 000	7 950	2 900	4 200		51207	62	37	5.2	51	46	1	0.215
	68	24	1	55.5	105	5 650	10 700	2 400	3 500		51307	68	37	7.2	55	48	1	0.383
	80	32	1.1	87.0	155	8 850	15 800	1 900	2 800		51407	80	37	9.6	62	53	1	0.759
40	60	13	0.6	26.9	63.0	2 740	6 400	3 500	5 000	51108	60	42	3.8	52	48	0.6	0.125	
	68	19	1	47.0	98.5	4 800	10 000	2 700	3 900		51208	68	42	5.5	57	51	1	0.276
	78	26	1	69.0	135	7 050	13 700	2 200	3 100		51308	78	42	7.6	63	55	1	0.548
	90	36	1.1	112	205	11 500	20 900	1 700	2 500		51408	90	42	10.7	70	60	1	1.08
45	65	14	0.6	27.9	69.0	2 840	7 050	3 200	4 600	51109	65	47	4	57	53	0.6	0.148	
	73	20	1	48.0	105	4 850	10 700	2 600	3 700		51209	73	47	6	62	56	1	0.317
	85	28	1	80.0	163	8 150	16 700	2 000	2 900		51309	85	47	8.3	69	61	1	0.684
	100	39	1.1	130	242	13 200	24 700	1 600	2 200		51409	100	47	11.6	78	67	1	1.43
50	70	14	0.6	28.8	75.5	2 930	7 700	3 100	4 500	51110	70	52	4	62	58	0.6	0.161	
	78	22	1	48.5	111	4 950	11 400	2 400	3 400		51210	78	52	7	67	61	1	0.378

1) Smallest allowable dimension for chamfer dimension r. 2) Maximum allowable dimension for shaft washer outer dimension d_{1s}.

3) Smallest allowable dimension for housing washer inner dimension D_{1s}.