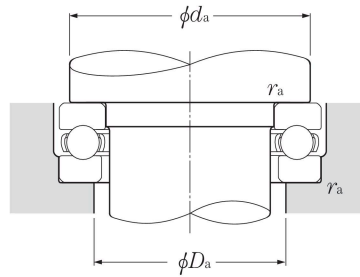
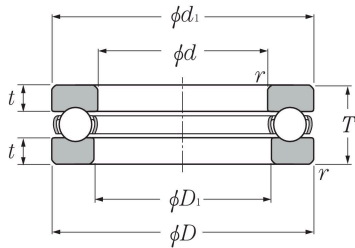


Single Direction Thrust Ball Bearings



Equivalent bearing load
dynamic

$$P_a = F_a$$

static

$$P_{oa} = F_a$$

d 10 ~ 50mm

	Boundary dimensions				Basic load ratings				Limiting speeds		Bearing numbers	Dimensions			Abutment and fillet dimensions			Mass kg (approx.)
	mm				dynamic kN	static	dynamic kgf	static	grease	oil		mm			mm	mm	mm	
d	D	T	r _{s min} ¹⁾	C _a	C _{oa}	C _a	C _{oa}	min ⁻¹	min ⁻¹	d _{1s max} ²⁾	D _{1s min} ³⁾	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 d₁.
3) Smallest allowable dimension for housing washer inner dimension D₁.