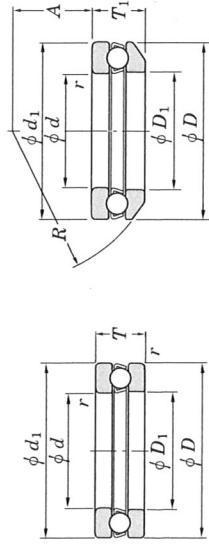


Single direction thrust ball bearings

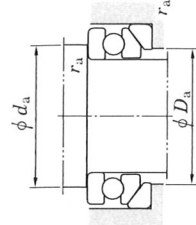
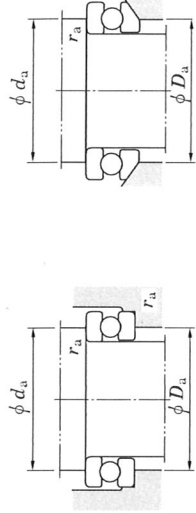
d (40) ~ 70 mm



With flat back faces



With spherical back face



d	Boundary dimensions (mm)				Basic load ratings (kN)		Fatigue load limit (kN)		Limiting speeds (min ⁻¹)		Bearing No.		With aligning seat race		Dimensions (mm)					Mounting dimensions (mm)		(Refer.) Mass (kg)				
	D	T	T_1	T_2	r min.	C_a	C_{0a}	C_u	Grease lub.	Oil lub.	With flat back faces	With spherical back face	With aligning seat race	d_1 max.	D_1 min.	D_2	D_3	A	R	C	d_a min.	D_a max.	r_a max.	With flat back faces	With spherical back face	With aligning seat race
40	90	36	38.2	42	1.1	141	205	9.25	1700	2600	51408	53408	53408U	90	42	65	95	26	72	12	70	60	1	1.14	1.12	1.37
45	65	14	—	—	0.6	34.8	69.1	3.10	3200	5000	51109	—	—	65	47	—	—	—	—	—	57	53	0.6	0.150	—	—
	73	20	21.3	24	1	59.7	105	4.75	2600	4000	51209	53209	53209U	73	47	60	78	26	56	7.5	62	56	1	0.320	0.310	0.397
	85	28	30.1	33	1	100	163	7.40	1900	3000	51309	53309	53309U	85	47	65	90	25	64	10	69	61	1	0.690	0.680	0.850
	100	39	42.4	46	1.1	162	242	10.9	1500	2300	51409	53409	53409U	100	47	72	105	29	80	12.5	78	67	1	1.47	1.50	1.82
50	70	14	—	—	0.6	35.9	75.4	3.40	3100	4800	51110	—	—	70	52	—	—	—	—	—	62	58	0.6	0.160	—	—
	78	22	23.5	26	1	60.6	111	5.05	2300	3600	51210	53210	53210U	78	52	62	82	32.5	64	7.5	67	61	1	0.390	0.380	0.480
	95	31	34.3	37	1.1	121	202	9.10	1800	2700	51310	53310	53310U	95	52	72	100	28	72	11	77	68	1	1.00	1.01	1.24
	110	43	45.6	50	1.5	185	283	12.8	1400	2100	51410	53410	53410U	110	52	80	115	35	90	14	86	74	1.5	1.99	1.97	2.38
55	78	16	—	—	0.6	43.5	93.1	4.20	2800	4300	51111	—	—	78	57	—	—	—	—	—	69	64	0.6	0.240	—	—
	90	25	27.3	30	1	86.7	159	7.20	2100	3200	51211	53211	53211U	90	57	72	95	35	72	9	76	69	1	0.610	0.620	0.770
	105	35	39.3	42	1.1	149	246	11.1	1600	2400	51311	53311	53311U	105	57	80	110	30	80	11.5	85	75	1	1.34	1.41	1.69
	120	48	50.5	55	1.5	223	359	16.2	1200	1900	51411	53411	53411U	120	57	88	125	28	90	15.5	94	81	1.5	2.64	2.57	3.10
60	85	17	—	—	1	51.8	113	5.10	2600	4000	51112	—	—	85	62	—	—	—	—	—	75	70	1	0.290	—	—
	95	26	28	31	1	92.0	179	8.05	1900	3000	51212	53212	53212U	95	62	78	100	32.5	72	9	81	74	1	0.690	0.690	0.850
	110	35	38.3	42	1.1	154	267	12.1	1500	2300	51312	53312	53312U	110	62	85	115	41	90	11.5	90	80	1	1.43	1.47	1.78
	130	51	54	58	1.5	267	437	19.7	1100	1700	51412	53412	53412U	130	62	95	135	34	100	16	102	88	1.5	3.51	3.44	4.13
65	90	18	—	—	1	52.1	117	5.30	2400	3700	51113	—	—	90	67	—	—	—	—	—	80	75	1	0.340	—	—
	100	27	28.7	32	1	93.6	189	8.50	1900	2900	51213	53213	53213U	100	67	82	105	40	80	9	86	79	1	0.770	0.750	0.930
	115	36	39.4	43	1.1	159	287	13.0	1400	2200	51313	53313	53313U	115	67	90	120	38.5	90	12.5	95	85	1	1.57	1.61	1.95
	140	56	60.2	65	2	290	493	22.0	1000	1600	51413	53413	53413U	140	68	100	145	40	112	17.5	110	95	2	4.47	4.47	5.28
70	95	18	—	—	1	53.8	127	5.70	2300	3600	51114	—	—	95	72	—	—	—	—	—	85	80	1	0.360	—	—
	105	27	28.8	32	1	95.2	199	8.95	1800	2800	51214	53214	53214U	105	72	88	110	38	80	9	91	84	1	0.810	0.800	0.990
	125	40	44.2	48	1.1	167	291	13.1	1300	2000	51314	53314	53314U	125	72	98	130	43	100	13	103	92	1	2.06	2.15	2.56
	150	60	63.6	69	2	312	553	23.8	940	1450	51414	53414	53414U	150	73	110	155	34	112	19.5	118	102	2	5.48	5.38	6.37

[Remark] Standard cage types used for the above bearings are described earlier in this section.