



Ball & Roller Bearings



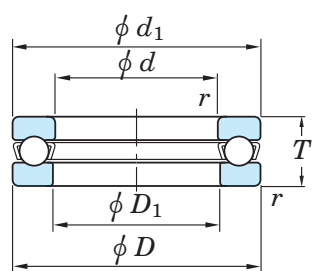
JTEKT

JTEKT CORPORATION

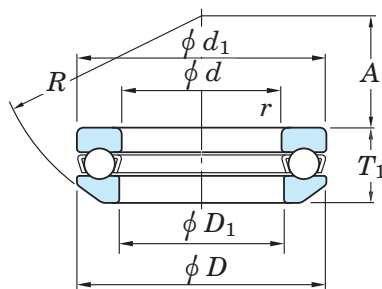
CAT. NO. B2001E-3

Single direction thrust ball bearings

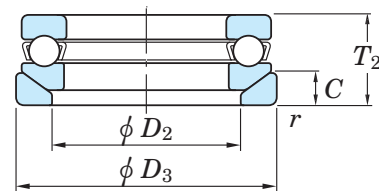
d (40) ~ 70 mm



With flat back faces



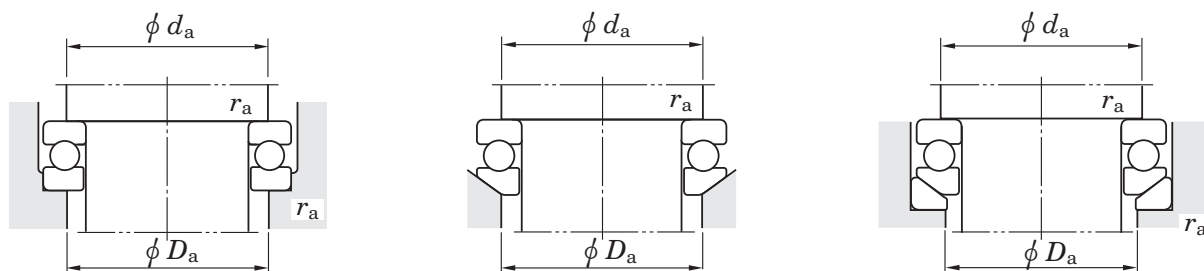
With spherical back face



With aligning seat race

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	
d	D	T	T_1	T_2	$r_{\min.}$	C_a	C_{0a}	Grease lub.	Oil lub.	With flat back faces	With spherical back face
40	90	36	38.2	42	1.1	113	205	1 700	2 600	51408	53408
45	65	14	—	—	0.6	27.8	69.1	3 200	5 000	51109	—
	73	20	21.3	24	1	47.7	105	2 600	4 000	51209	53209
	85	28	30.1	33	1	80.0	163	1 900	3 000	51309	53309
	100	39	42.4	46	1.1	130	242	1 500	2 300	51409	53409
50	70	14	—	—	0.6	28.8	75.4	3 100	4 800	51110	—
	78	22	23.5	26	1	48.5	111	2 300	3 600	51210	53210
	95	31	34.3	37	1.1	96.6	202	1 800	2 700	51310	53310
	110	43	45.6	50	1.5	148	283	1 400	2 100	51410	53410
55	78	16	—	—	0.6	34.8	93.1	2 800	4 300	51111	—
	90	25	27.3	30	1	69.4	159	2 100	3 200	51211	53211
	105	35	39.3	42	1.1	119	246	1 600	2 400	51311	53311
	120	48	50.5	55	1.5	178	359	1 200	1 900	51411	53411
60	85	17	—	—	1	41.4	113	2 600	4 000	51112	—
	95	26	28	31	1	73.6	179	1 900	3 000	51212	53212
	110	35	38.3	42	1.1	124	267	1 500	2 300	51312	53312
	130	51	54	58	1.5	214	437	1 100	1 700	51412	53412
65	90	18	—	—	1	41.7	117	2 400	3 700	51113	—
	100	27	28.7	32	1	74.9	189	1 900	2 900	51213	53213
	115	36	39.4	43	1.1	128	287	1 400	2 200	51313	53313
	140	56	60.2	65	2	232	493	1 000	1 600	51413	53413
70	95	18	—	—	1	43.1	127	2 300	3 600	51114	—
	105	27	28.8	32	1	76.1	199	1 800	2 800	51214	53214
	125	40	44.2	48	1.1	134	291	1 300	2 000	51314	53314
	150	60	63.6	69	2	250	553	940	1 450	51414	53414

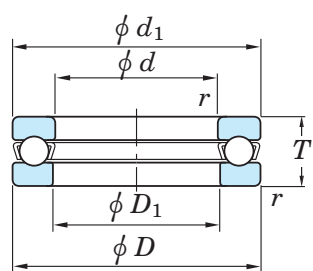
[Remark] Standard cage types used for the above bearings are described earlier in this section.



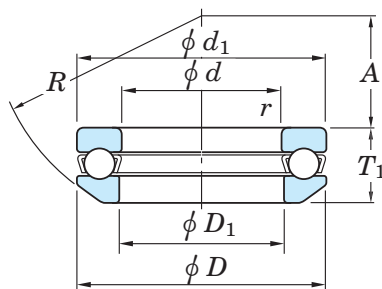
With aligning seat race	Dimensions (mm)							Mounting dimensions (mm)			(Refer.) Mass (kg)		
	d_1 max.	D_1 min.	D_2	D_3	A	R	C	d_a min.	D_a max.	r_a max.	With flat back faces	With spherical back face	With aligning seat race
53408U	90	42	65	95	26	72	12	70	60	1	1.14	1.12	1.37
—	65	47	—	—	—	—	—	57	53	0.6	0.150	—	—
53209U	73	47	60	78	26	56	7.5	62	56	1	0.320	0.310	0.397
53309U	85	47	65	90	25	64	10	69	61	1	0.690	0.680	0.850
53409U	100	47	72	105	29	80	12.5	78	67	1	1.47	1.50	1.82
—	70	52	—	—	—	—	—	62	58	0.6	0.160	—	—
53210U	78	52	62	82	32.5	64	7.5	67	61	1	0.390	0.380	0.480
53310U	95	52	72	100	28	72	11	77	68	1	1.00	1.01	1.24
53410U	110	52	80	115	35	90	14	86	74	1.5	1.99	1.97	2.38
—	78	57	—	—	—	—	—	69	64	0.6	0.240	—	—
53211U	90	57	72	95	35	72	9	76	69	1	0.610	0.620	0.770
53311U	105	57	80	110	30	80	11.5	85	75	1	1.34	1.41	1.69
53411U	120	57	88	125	28	90	15.5	94	81	1.5	2.64	2.57	3.10
—	85	62	—	—	—	—	—	75	70	1	0.290	—	—
53212U	95	62	78	100	32.5	72	9	81	74	1	0.690	0.690	0.850
53312U	110	62	85	115	41	90	11.5	90	80	1	1.43	1.47	1.78
53412U	130	62	95	135	34	100	16	102	88	1.5	3.51	3.44	4.13
—	90	67	—	—	—	—	—	80	75	1	0.340	—	—
53213U	100	67	82	105	40	80	9	86	79	1	0.770	0.750	0.930
53313U	115	67	90	120	38.5	90	12.5	95	85	1	1.57	1.61	1.95
53413U	140	68	100	145	40	112	17.5	110	95	2	4.47	4.47	5.28
—	95	72	—	—	—	—	—	85	80	1	0.360	—	—
53214U	105	72	88	110	38	80	9	91	84	1	0.810	0.800	0.990
53314U	125	72	98	130	43	100	13	103	92	1	2.06	2.15	2.56
53414U	150	73	110	155	34	112	19.5	118	102	2	5.48	5.38	6.37

Single direction thrust ball bearings

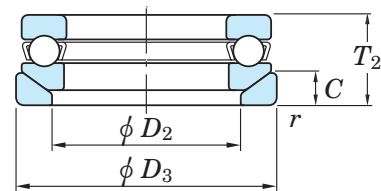
d 75 ~ (120) mm



With flat back faces



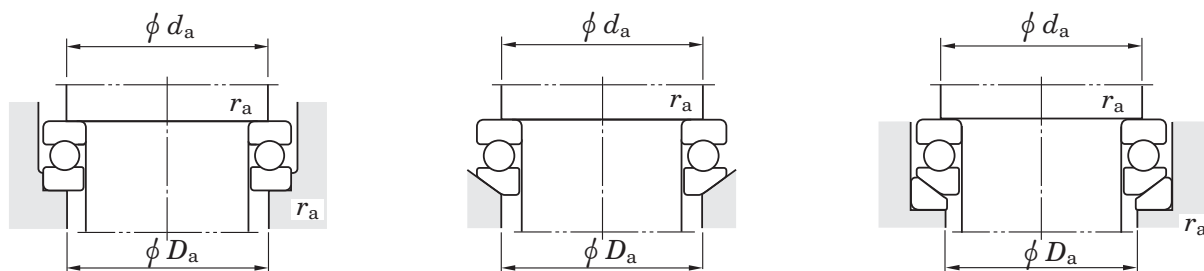
With spherical back face



With aligning seat race

Boundary dimensions (mm)						Basic load ratings (kN)		Limiting speeds (min ⁻¹)		Bearing No.	
d	D	T	T_1	T_2	$r_{\min.}$	C_a	C_{0a}	Grease lub.	Oil lub.	With flat back faces	With spherical back face
75	100	19	—	—	1	44.4	136	2 200	3 400	51115	—
	110	27	28.3	32	1	77.4	209	1 800	2 700	51215	53215
	135	44	48.1	52	1.5	154	339	1 200	1 900	51315	53315
	160	65	69	75	2	252	560	880	1 350	51415	53415
80	105	19	—	—	1	44.7	141	2 100	3 300	51116	—
	115	28	29.5	33	1	78.5	218	1 700	2 600	51216	53216
	140	44	47.6	52	1.5	160	368	1 200	1 800	51316	53316
	170	68	72.2	78	2.1	270	621	810	1 250	51416	53416
85	110	19	—	—	1	45.9	150	2 100	3 200	51117	—
	125	31	33.1	37	1	95.4	264	1 500	2 300	51217	53217
	150	49	53.1	58	1.5	186	419	1 100	1 700	51317	53317
	180	72	77	83	2.1	307	753	780	1 200	51417	53417
90	120	22	—	—	1	59.7	190	1 900	2 900	51118	—
	135	35	38.5	42	1.1	117	326	1 400	2 100	51218	53218
	155	50	54.6	59	1.5	193	454	1 000	1 600	51318	53318
	190	77	81.2	88	2.1	327	826	710	1 100	51418	53418
100	135	25	—	—	1	85.0	268	1 600	2 500	51120	—
	150	38	40.9	45	1.1	146	410	1 200	1 900	51220	53220
	170	55	59.2	64	1.5	236	595	940	1 450	51320	53320
	210	85	90	98	3	368	983	620	950	51420	53420
110	145	25	—	—	1	87.0	288	1 600	2 400	51122	—
	160	38	40.2	45	1.1	152	450	1 200	1 800	51222	53222
	190	63	67.2	72	2	267	704	810	1 250	51322	53322
	230	95	—	—	3	379	1 070	550	850	51422	—
120	155	25	—	—	1	89.0	305	1 500	2 300	51124	—

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



With aligning seat race	Dimensions (mm)							Mounting dimensions (mm)			(Refer.) Mass (kg)		
	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
—	100	77	—	—	—	—	—	90	85	1	0.420	—	—
53215U	110	77	92	115	49	90	9.5	96	89	1	0.860	0.850	1.06
53315U	135	77	105	140	37	100	15	111	99	1.5	2.68	2.72	3.27
53415U	160	78	115	165	42	125	21	125	110	2	6.75	6.64	7.87
—	105	82	—	—	—	—	—	95	90	1	0.430	—	—
53216U	115	82	98	120	46	90	10	101	94	1	0.950	0.930	1.15
53316U	140	82	110	145	50	112	15	116	104	1.5	2.82	2.86	3.43
53416U	170	83	125	175	36	125	22	133	117	2	7.97	7.84	9.22
—	110	87	—	—	—	—	—	100	95	1	0.460	—	—
53217U	125	88	105	130	52	100	11	109	101	1	1.29	1.28	1.57
53317U	150	88	115	155	43	112	17.5	124	111	1.5	3.66	3.63	4.44
53417U	177	88	130	185	47	140	23	141	124	2	9.29	9.20	10.8
—	120	92	—	—	—	—	—	108	102	1	0.680	—	—
53218U	135	93	110	140	45	100	13.5	117	108	1	1.77	1.77	2.19
53318U	155	93	120	160	40	112	18	129	116	1.5	3.88	3.87	4.71
53418U	187	93	140	195	40	140	25.5	149	131	2	11.0	10.7	12.6
—	135	102	—	—	—	—	—	121	114	1	0.990	—	—
53220U	150	103	125	155	52	112	14	130	120	1	2.36	2.34	2.84
53320U	170	103	135	175	46	125	18	142	128	1.5	5.11	5.10	6.05
53420U	205	103	155	220	50	160	27	165	145	2.5	14.6	14.5	17.4
—	145	112	—	—	—	—	—	131	124	1	1.08	—	—
53222U	160	113	135	165	65	125	14	140	130	1	2.57	2.50	3.06
53322U	187	113	150	195	51	140	20.5	158	142	2	7.72	7.63	8.90
—	225	113	—	—	—	—	—	181	159	2.5	19.8	—	—
—	155	122	—	—	—	—	—	141	134	1	1.16	—	—