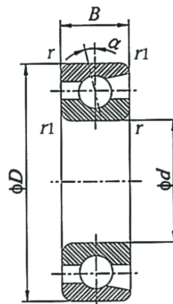


Angular contact ball bearings

d 10 ~ (17) mm

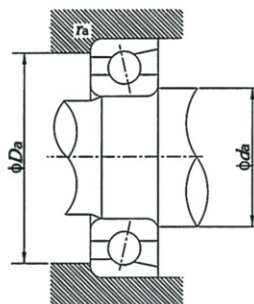


7000 C $\alpha=15^\circ$
 7000 AC $\alpha=25^\circ$
 7000 B $\alpha=40^\circ$

Boundary dimensions (mm)					Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.	Mounting dimensions (mm)			Mass (kg)
d	D	B	r min.	r ₁ min.	C _r	C _{or}	Grease lub.	Oil lub.		da min.	Da max.	ra max.	
10	26	8	0.3	0.15	3.78	2.15	19000	28000	7000C	12.5	23.5	0.3	0.018
	26	8	0.3	0.15	3.66	2.02	19000	28000	7000AC	12.5	23.5	0.3	0.018
	30	9	0.6	0.3	4.18	2.42	18000	26000	7200C	15	25	0.6	0.03
	30	9	0.6	0.3	4	2.28	18000	26000	7200AC	15	25	0.6	0.03
	30	14.3	0.6	—	7.95	5.88	12000	17000	3200	15	25	0.6	0.054
	35	11	0.6	0.3	5.4	2.61	20000	26000	7300AC	15	30	0.6	0.053
	35	11	0.6	0.3	7.87	4.93	20000	26000	7300B	15	30	0.6	0.054
12	28	8	0.3	0.15	4.08	2.42	18000	26000	7001C	14.5	25.2	0.3	0.02
	28	8	0.3	0.15	4	2.28	18000	26000	7001AC	14.5	25.2	0.3	0.02
	32	10	0.6	0.3	5.65	3.35	17000	24000	7201C	17	27	0.6	0.035
	32	10	0.6	0.3	5.45	3.15	17000	24000	7201AC	17	27	0.6	0.035
	32	15.9	0.6	—	9.08	6.75	11000	16000	3201	17	27	0.6	0.057
	37	12	1	0.6	8.1	5.22	16000	22000	7301C	18	31	1	0.06
	37	12	1	0.6	8.08	4.88	16000	22000	7301AC	18	31	1	0.035
15	32	9	0.3	0.15	4.8	2.95	17000	24000	7002C	17.5	29.5	0.3	0.028
	32	9	0.3	0.15	4.58	2.78	17000	24000	7002AC	17.5	29.5	0.3	0.028
	35	11	0.6	0.3	6.68	4.19	16000	22000	7202C	20	30	0.6	0.043
	35	11	0.6	0.3	6.42	3.92	16000	22000	7202AC	20	30	0.6	0.043
	35	15.9	0.6	—	10.5	8.2	10000	15000	3202	20	30	0.6	0.067
	42	13	1	0.6	9.38	5.95	15000	22000	7302C	21	36	1	0.084
	42	13	1	0.6	9.08	5.58	15000	22000	7302AC	21	36	1	0.084
	42	19	1	—	13.2	8.9	10000	15000	3302	21	36	1	0.13
17	35	10	0.3	0.15	5.28	3.22	16000	22000	7003C	19.5	32.5	0.3	0.036
	35	10	0.3	0.15	4.85	3.02	15000	22000	7003AC	19.5	32.5	0.3	0.036
	40	12	0.6	0.3	8.38	5.38	15000	20000	7203C	22	35	0.6	0.062
	40	12	0.6	0.3	8.05	5.05	15000	20000	7203AC	22	34	0.6	0.062
	40	17.5	0.9	—	13.2	10.8	9500	14000	3203	22	35	0.6	0.1
	47	14	1	0.6	12.8	8.63	14000	19000	7303C	23	41	1	0.116

Angular contact ball bearings

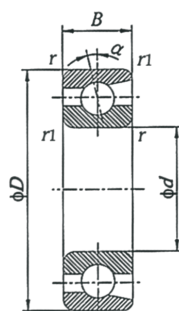
d (17) ~ (30) mm



Boundary dimensions (mm)					Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.	Mounting dimensions (mm)			Mass (kg)
d	D	B	r min.	r1 min.	Cr	Cor	Grease lub.	Oil lub.		da min.	Da max.	ra max.	
17	47	14	1	0.6	11.5	7.08	14000	19000	7303AC	23	41	1	0.116
	47	22.2	1	—	15.6	13.5	9000	13000	3303	23	41	1	0.18
20	42	12	0.6	0.3	8.05	5.25	14000	19000	7004C	25	37	0.6	0.064
	42	12	0.6	0.3	7.72	4.92	14000	19000	7004AC	25	37	0.6	0.064
	47	14	1	0.6	11.2	7.46	13000	18000	7204C	26	41	1	0.1
	47	14	1	0.6	10.8	7	13000	18000	7204AC	26	41	1	0.1
	47	14	1	0.6	10.8	6.78	13000	18000	7204B	26	41	1	0.11
	47	20.6	1	—	16.2	13.5	8500	12000	3204	26	41	1	0.17
	52	15	1.1	0.6	14.2	9.68	12000	17000	7304C	27	45	1	0.15
	52	15	1.1	0.6	13.8	9.1	12000	17000	7304AC	27	45	1	0.15
	52	22.2	1.1	—	19.8	16.5	8000	17000	3304	27	45	1	0.24
25	47	12	0.6	0.3	8.98	6.22	12000	17000	7005C	30	42	0.6	0.074
	47	12	0.6	0.3	8.58	5.85	12000	17000	7005AC	30	42	0.6	0.074
	52	15	1	0.6	12.8	8.95	11000	16000	7205C	31	46	1	0.12
	52	15	1	0.6	12.2	8.38	11000	16000	7205AC	31	46	1	0.12
	52	15	1	0.6	12.2	7.88	11000	16000	7205B	31	46	1	0.13
	52	20.6	1	—	18	15.8	7500	10000	3205	31	46	1	0.19
	62	17	1.1	0.6	21.5	15.8	9500	14000	7305C	32	55	1	0.23
	62	17	1.1	0.6	20.8	14.8	9500	14000	7305AC	32	55	1	0.23
	62	17	1.1	0.6	20.2	13.5	9500	14000	7305B	32	55	1	0.24
30	62	25.4	1.1	—	27.2	24	7500	10000	3305	32	55	1	0.35
	55	13	1	0.6	11.5	8.45	9500	14000	7006C	36	49	1	0.11
	55	13	1	0.6	11.2	7.92	9500	14000	7006AC	36	49	1	0.11
	62	16	1	0.6	17.8	12.8	9000	13000	7206C	36	56	1	0.19
	62	16	1	0.6	16.8	12.2	9000	13000	7206AC	36	56	1	0.19
	62	16	1	0.6	15.8	11.2	9000	13000	7206B	36	56	1	0.21
	62	23.8	1	—	25.8	23.5	6300	8500	3206	36	56	1	0.31
72	30.2	1.1	—	36	32.5	6000	8000	3306	37	65	1	0.59	

Angular contact ball bearings

d (30) ~ (45) mm

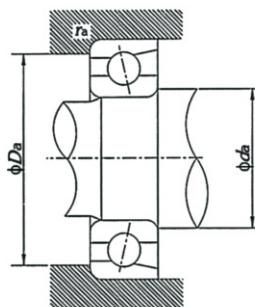


7000 C $\alpha=15^\circ$
 7000 AC $\alpha=25^\circ$
 7000 B $\alpha=40^\circ$

Boundary dimensions (mm)					Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.	Mounting dimensions (mm)			Mass (kg)
d	D	B	r min.	r ₁ min.	C _r	C _{or}	Grease lub.	Oil lub.		da min.	Da max.	ra max.	
30	72	19	1.1	0.6	26.2	19.8	8500	12000	7306C	37	65	1	0.35
	72	19	1.1	0.6	25.2	18.5	8500	12000	7306AC	37	65	1	0.35
	72	19	1.1	0.6	24.8	17.5	8500	12000	7306B	37	65	1	0.37
35	62	14	1	0.6	14.8	11.5	8500	12000	7007C	41	56	1	0.15
	62	14	1	0.6	14.8	10.8	8500	12000	7007AC	41	56	1	0.15
	72	17	1.1	0.6	23.5	17.5	8000	11000	7207C	42	65	1	0.28
	72	17	1.1	0.6	22.5	16.5	8000	11000	7207AC	42	65	1	0.28
	72	17	1.1	0.6	20.8	15.2	8000	11000	7207B	42	65	1	0.3
	72	27	1.1	—	34.8	32.8	5600	7500	3207	42	65	1	0.51
	80	21	1.5	1	34.2	26.8	7500	10000	7307C	44	71	1.5	0.47
	80	21	1.5	1	32.8	24.8	7500	10000	7307AC	44	71	1.5	0.47
	80	21	1.5	1	29.5	21.2	7500	10000	7307B	44	71	1.5	0.51
40	80	34.9	1.5	—	45.8	42.2	5300	7000	3307	44	71	1.5	0.82
	68	15	1	0.6	15.5	12.2	8000	11000	7008C	46	62	1	0.18
	68	15	1	0.6	14.5	11.5	8000	11000	7008AC	46	62	1	0.18
	80	18	1.1	0.6	26.8	20.5	7500	10000	7208C	47	73	1	0.37
	80	18	1.1	0.6	25.8	19.2	7500	10000	7208AC	47	73	1	0.37
	80	18	1.1	0.6	25	18.8	7500	10000	7208B	47	73	1	0.39
	80	30.2	1.1	—	39.8	38	5300	7000	3208	47	73	1	0.64
	90	23	1.5	1	40.2	32.3	6700	9000	7308C	49	81	1.5	0.66
	90	23	1.5	1	38.5	30.5	6700	9000	7308AC	49	81	1.5	0.66
	90	23	1.5	1	35.5	26.2	6700	9000	7308B	49	81	1.5	0.67
	90	36.5	1.5	—	46.8	54	4800	6300	3308	49	81	1.5	1.06
45	75	16	1	0.6	19.8	16.2	7500	10000	7009C	51	69	1	0.23
	75	16	1	0.6	18.8	15.2	7500	10000	7009AC	51	69	1	0.23
	85	19	1.1	0.6	29.8	23.8	6700	9000	7209C	52	78	1	0.41
	85	19	1.1	0.6	28.2	23.8	6700	9000	7209AC	52	78	1	0.41
	85	19	1.1	0.6	27.8	21.2	6700	9000	7209B	52	78	1	0.44

Angular contact ball bearings

d (45) ~ 60 mm



Boundary dimensions (mm)					Basic load ratings (kN)		Limiting speeds (r/min)		Bearing No.	Mounting dimensions (mm)			Mass (kg)
d	D	B	r min.	r1 min.	Cr	Cor	Grease lub.	Oil lub.		da min.	Da max.	ra max.	
45	85	30.2	1.1	—	43.2	43.5	4800	6300	3209	52	78	1	0.72
	100	25	1.5	1	49.2	39.8	6000	8000	7309C	54	91	1.5	0.86
	100	25	1.5	1	47.5	37.2	6000	8000	7309AC	54	91	1.5	0.86
	100	25	1.5	1	45.8	34.5	6000	8000	7309B	54	91	1.5	0.9
	100	39.7	1.5	—	56.8	54	4300	5600	3309	54	91	1.5	1.24
50	80	16	1	0.6	20.5	17.2	6700	9000	7010C	56	74	1	0.25
	80	16	1	0.6	19.5	16.2	6700	9000	7010AC	56	74	1	0.25
	90	20	1.1	0.6	32.8	26.8	6300	8500	7210C	57	83	1	0.46
	90	20	1.1	0.6	31.5	25.2	6300	8500	7210AC	57	83	1	0.46
	90	20	1.1	0.6	28.8	22.8	6300	8500	7210B	57	83	1	0.49
	90	30.2	1.1	—	46	46.8	6300	6000	3210	57	83	1	0.78
	110	27	2	1	53.5	47.2	5600	7500	7310C	60	100	2	1.08
	110	27	2	1	55.5	44.5	5600	7500	7310AC	60	100	2	1.32
	110	27	2	1	52.5	40.8	5600	7500	7310B	60	100	2	1.15
55	110	44.4	2	—	88	88.2	4000	7500	3310	60	100	2	1.96
	90	18	1.1	0.6	28.5	24.5	6000	8000	7011C	62	83	1	0.38
	90	18	1.1	0.6	27.2	22.8	6000	8000	7011AC	62	83	1	0.38
	100	21	1.5	1	40.8	33.8	5600	7500	7211C	64	91	1.5	0.61
	100	21	1.5	1	38.8	31.8	5600	7500	7211AC	64	91	1.5	0.61
	100	21	1.5	1	35.5	28.8	5600	7500	7211B	64	91	1.5	0.65
	100	33.3	1.5	—	54.8	56.8	4000	5300	3211	64	91	1.5	1.96
	120	29	2	1	70.5	60.5	5000	6700	7311C	65	110	2	1.71
	120	29	2	1	67.2	56.8	5000	6700	7311AC	65	110	2	1.42
	120	29	2	1	60.5	48	5000	6700	7311B	65	110	2	1.45
60	120	49.2	2	—	90	94	3600	4800	3311	65	110	2	2.4
	95	18	1.1	0.6	29.5	25.8	5600	7500	7012C	67	88	1	0.4
	95	18	1.1	0.6	27.8	24.2	5600	7500	7012AC	67	88	1	0.4
	110	22	1.5	1	44.8	37.8	5300	7000	7212C	69	101	1.5	0.8