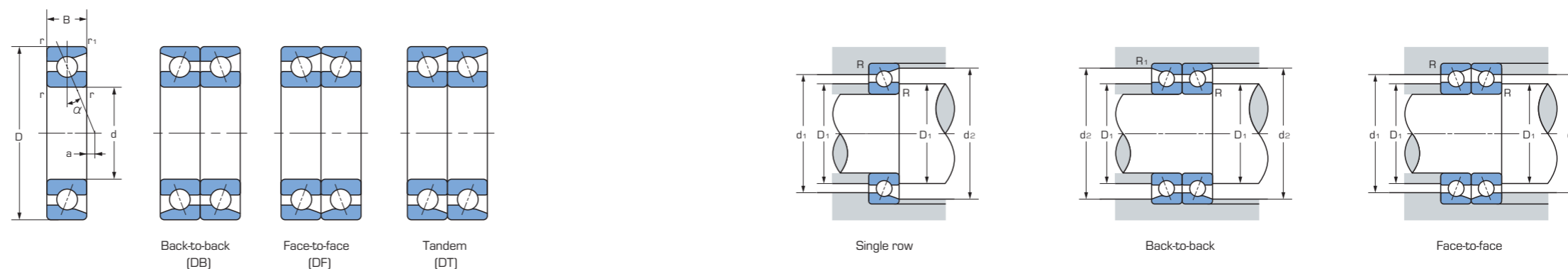


# Angular Contact Ball Bearings

7000C Series  
7000AC Series

Contact angle  $\alpha=15^\circ$   
Contact angle  $\alpha=25^\circ$



Bearing No.	Boundary dimensions (mm)					Load center $a$ (mm)	Basic dynamic load rating $C_r$ (kN)	Basic static load rating $C_{or}$ (kN)	Limiting speed (min <sup>-1</sup> )		Corner radius (mm)					Mass (kg) (Reference)	Bearing No.
	$d$	$D$	$B$	$r_{min}$	$r_{1min}$				Grease lubrication	Oil lubrication	$D_{1min}$	$d_{1max}$	$d_{2max}$	$R_{max}$	$R_{1max}$		
7000C	10	26	8	0.3	0.15	-1.9	5.35	2.50	65,000	89,000	12	24	25	0.3	0.15	0.022	7000C
7000AC	10	26	8	0.3	0.15	0.2	5.15	2.41	56,500	75,500	12	24	25	0.3	0.15	0.022	7000AC
7001C	12	28	8	0.3	0.15	-1.7	5.80	2.91	58,500	80,000	14	26	27	0.3	0.15	0.024	7001C
7001AC	12	28	8	0.3	0.15	0.7	5.60	2.79	51,000	68,000	14	26	27	0.3	0.15	0.026	7001AC
7002C	15	32	9	0.3	0.15	-1.8	6.65	3.70	49,500	68,000	17	30	31	0.3	0.15	0.035	7002C
7002AC	15	32	9	0.3	0.15	1.0	6.30	3.55	43,000	58,000	17	30	31	0.3	0.15	0.035	7002AC
7003C	17	35	10	0.3	0.15	-2.0	7.00	4.15	45,000	61,500	19	33	34	0.3	0.15	0.045	7003C
7003AC	17	35	10	0.3	0.15	1.1	6.65	3.95	39,000	52,500	19	33	34	0.3	0.15	0.045	7003AC
7004C	20	42	12	0.6	0.3	-2.4	11.2	6.60	37,500	51,500	24	38	40	0.6	0.3	0.079	7004C
7004AC	20	42	12	0.6	0.3	1.2	10.6	6.25	32,500	44,000	24	38	40	0.6	0.3	0.079	7004AC
7005C	25	47	12	0.6	0.3	-1.8	12.9	8.65	32,500	44,500	29	43	45	0.6	0.3	0.091	7005C
7005AC	25	47	12	0.6	0.3	2.4	11.7	7.60	28,200	37,500	29	43	45	0.6	0.3	0.091	7005AC
7006C	30	55	13	1	0.6	-1.6	16.0	11.1	27,400	37,500	35	50	52	1	0.6	0.135	7006C
7006AC	30	55	13	1	0.6	3.4	15.1	10.5	23,900	32,000	35	50	52	1	0.6	0.135	7006AC
7007C	35	62	14	1	0.6	-1.4	19.3	13.7	24,100	33,000	40	57	59	1	0.6	0.170	7007C
7007AC	35	62	14	1	0.6	4.3	18.2	13.0	21,000	28,000	40	57	59	1	0.6	0.170	7007AC
7008C	40	68	15	1	0.6	-1.3	20.7	16.0	21,600	29,600	45	63	65	1	0.6	0.210	7008C
7008AC	40	68	15	1	0.6	5.1	19.5	15.1	18,800	25,200	45	63	65	1	0.6	0.210	7008AC
7009C	45	75	16	1	0.6	-1.1	24.6	19.4	19,500	26,700	50	70	72	1	0.6	0.265	7009C
7009AC	45	75	16	1	0.6	6.0	23.1	18.3	16,900	22,700	50	70	72	1	0.6	0.265	7009AC
7010C	50	80	16	1	0.6	-0.5	26.2	22.0	18,000	24,600	55	75	77	1	0.6	0.285	7010C
7010AC	50	80	16	1	0.6	7.2	23.7	19.7	15,600	20,900	55	75	77	1	0.6	0.285	7010AC
7011C	55	90	18	1.1	0.6	-0.6	34.5	28.8	16,100	22,100	61	84	86	1	0.6	0.420	7011C
7011AC	55	90	18	1.1	0.6	7.9	31.0	25.6	14,000	18,800	61	84	86	1	0.6	0.420	7011AC
7012C	60	95	18	1.1	0.6	-0.1	35.5	30.5	15,000	20,600	66	89	91	1	0.6	0.450	7012C
7012AC	60	95	18	1.1	0.6	9.1	32.0	27.6	13,100	17,500	66	89	91	1	0.6	0.450	7012AC
7013C	65	100	18	1.1	0.6	0.5	37.5	34.5	14,200	19,400	71	94	96	1	0.6	0.470	7013C
7013AC	65	100	18	1.1	0.6	10.2	34.0	31.0	12,300	16,500	71	94	96	1	0.6	0.470	7013AC
7014C	70	110	20	1.1	0.6	0.4	47.0	43.0	13,000	17,800	76	104	106	1	0.6	0.660	7014C
7014AC	70	110	20	1.1	0.6	11.0	44.5	41.0	11,300	15,100	76	104	106	1	0.6	0.660	7014AC
7015C	75	115	20	1.1	0.6	1.0	48.5	46.0	12,300	16,800	81	109	111	1	0.6	0.695	7015C
7015AC	75	115	20	1.1	0.6	12.2	45.5	43.0	10,700	14,300	81	109	111	1	0.6	0.695	7015AC
7016C	80	125	22	1.1	0.6	0.8	59.0	55.5	11,400	15,600	86	119	121	1	0.6	0.925	7016C
7016AC	80	125	22	1.1	0.6	12.9	55.5	52.5	9,900	13,300	86	119	121	1	0.6	0.925	7016AC
7017C	85	130	22	1.1	0.6	1.4	60.5	59.0	10,900	14,900	91	124	126	1	0.6	0.960	7017C
7017AC	85	130	22	1.1	0.6	14.1	57.0	55.5	9,400	12,700	91	124	126	1	0.6	0.960	7017AC
7018C	90	140	24	1.5	1	1.3	72.0	69.5	10,100	13,900	97	133	135.6	1.5	1	1.26	7018C
7018AC	90	140	24	1.5	1	14.8	68.0	65.5	8,800	11,800	97	133	135.6	1.5	1	1.26	7018AC
7019C	95	145	24	1.5	1	1.9	74.0	73.5	9,700	13,300	102	138	140.6	1.5	1	1.36	7019C
7019AC	95	145	24	1.5	1	16.0	69.5	69.5	8,400	11,300	102	138	140.6	1.5	1	1.36	7019AC
7020C	100	150	24	1.5	1	2.4	76.0	77.5	9,300	12,800	107	143	145.6	1.5	1	1.37	7020C
7020AC	100	150	24	1.5	1	17.2	71.0	73.0	8,100	10,900	107	143	145.6	1.5	1	1.37	7020AC