

HIGH-SPEED PRECISION BEARINGS

70 Series Precision Angular Contact Ball Bearings

70 series angular contact ball bearings are designed for high-speed CNC spindles, grinding heads, and precision machine tool applications requiring low friction and stable axial support.

High-speed spindle use

P4 / P2 accuracy grades

15° / 25° contact angles



Designation	Dimensions (mm)			Installation Size (mm)			Basic Load Rating (kN)		Limiting Speed (r/min)		Weight (kg)
	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
7000C	10	26	8	13.5	22.5	0.3	4	2.4	66000	90000	0.02
7000AC	10	26	8	13.5	22.5	0.3	3.8	2.3	59000	89000	0.02
7001C	12	28	8	15	25	0.3	5	3	59000	89000	0.02
7001AC	12	28	8	15	25	0.3	4.8	2.8	55000	84000	0.02
7002C	15	32	9	19	28.5	0.3	5.3	3.3	49000	74000	0.03
7002AC	15	32	9	19	28.5	0.3	5.1	3.1	44000	66000	0.03
7003C	17	35	10	20.5	31.5	0.3	6.7	4.9	44000	66000	0.04
7003AC	17	35	10	20.5	31.5	0.3	6.4	4.7	39000	59000	0.04
7004C	20	42	12	24.5	37.5	0.6	9.6	6.3	37000	55000	0.06
7004AC	20	42	12	24.5	37.5	0.6	9.2	6	33000	49000	0.06
7005C	25	47	12	29	43.5	0.6	12.9	8.7	33000	49000	0.07
7005AC	25	47	12	29	43.5	0.6	12.3	8.3	29000	44000	0.07
7006C	30	55	13	34.5	50.5	1	15.7	11.6	28000	43000	0.11
7006AC	30	55	13	34.5	50.5	1	14.9	10.9	24000	38000	0.11
7007C	35	62	14	40.5	56.5	1	19.3	17.5	19000	33000	0.15
7007AC	35	62	14	40.5	56.5	1	18.3	16.6	18000	31000	0.15
7008C	40	68	15	46	62	1	19.9	19.1	18000	31000	0.19
7008AC	40	68	15	46	62	1	18.9	18.2	16000	27000	0.19
7009C	45	75	16	50.5	69.5	1	26.7	25.3	16000	27000	0.23
7009AC	45	75	16	50.5	69.5	1	25.4	24.1	15000	25000	0.23
7010C	50	80	16	55.5	74.5	1	27.6	27.5	15000	25000	0.25
7010AC	50	80	16	55.5	74.5	1	26.2	26.2	14000	23000	0.25
7011C	55	90	18	61.5	83.5	1.1	36.7	37.1	13000	21000	0.37
7011AC	55	90	18	61.5	83.5	1.1	34.8	35.3	12000	19000	0.37

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	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
7012C	60	95	18	66.5	88.5	1.1	37.8	40	13000	21000	0.39
7012AC	60	95	18	66.5	88.5	1.1	35.8	38	11000	18000	0.39
7013C	65	100	18	71.5	93.5	1.1	38.9	42.9	12000	19000	0.42
7013AC	65	100	18	71.5	93.5	1.1	36.8	40.7	10000	17000	0.42
7014C	70	110	20	77.5	103	1.1	49.9	55.5	11000	18000	0.59
7014AC	70	110	20	77.5	103	1.1	47.2	52.7	9000	16000	0.59
7015C	75	115	20	82.5	108	1.1	51.3	59.2	10000	17000	0.62
7015AC	75	115	20	82.5	108	1.1	48.5	56.2	8500	15000	0.62
7016C	80	125	22	88	117	1.1	61.6	70.4	9000	16000	0.83
7016AC	80	125	22	88	117	1.1	58.3	66.9	8000	14000	0.83
7017C	85	130	22	93	122	1.1	63.6	75	8500	15000	0.87
7017AC	85	130	22	93	122	1.1	59.9	71.3	7500	13000	0.87
7018C	90	140	24	100.5	130	1.5	66.9	84	8000	14000	1.18
7018AC	90	140	24	100.5	130	1.5	63.2	79.7	7000	12000	1.18
7019C	95	145	24	104	136	1.5	79.1	97.6	7500	13000	1.2
7019AC	95	145	24	104	136	1.5	74.8	92.7	6500	11000	1.2
7020AC	100	150	24	109	141	1.5	68.5	70.5	4500	6000	1.48
7020C	100	150	24	109	141	1.5	75.5	77	6300	9000	1.46
7021AC	105	160	26	115	150	2	80	81.5	4300	5600	1.84
7021C	105	160	26	115	150	2	88	89.5	6000	8500	1.82
7022AC	110	170	28	120	160	2	96.5	95.5	4000	5300	2.28
7022C	110	170	28	120	160	2	106	104	5600	8000	2.26
7024AC	120	180	28	130	170	2	102	107	3600	5000	2.45
7026AC	130	200	33	140	190	2	117	125	3400	4500	3.68
7028AC	140	210	33	150	200	2	120	133	3200	4300	3.9
7030AC	150	225	35	162	213	2	137	154	2400	3000	4.75
7032AC	160	240	38	172	228	2	155	305	2200	2800	5.77
7034AC	170	260	42	182	248	2	186	214	2000	2600	7.9
7038C	190	290	46	206	274	2	250	305	1400	2000	9.3
7038AC	190	290	46	206	274	2	236	290	1200	1800	9.3
7040C	200	310	51	217	293	2	305	390	1200	4000	12
7040AC	200	310	51	217	293	2	290	365	1100	1700	12
7044C	220	340	56	239	321	2.5	325	440	1100	1700	16
7044AC	220	340	56	239	321	2.5	310	415	1000	1600	16
7048C	240	360	56	260	341	2.5	335	465	1000	1600	17
7048AC	240	360	56	260	341	2.5	315	440	900	1500	17

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7052AC	260	400	65	290	374	3	345	525	900	1500	28.7
7052B	260	400	65	290	374	3	310	475	800	1400	29
7056AC	280	420	65	310	393	3	345	530	800	1400	31.2
7056B	280	420	65	310	393	3	325	520	700	1300	31
7060AC	300	460	74	331	433	3	385	605	700	1300	44.9
7060B	300	460	74	331	433	3	345	545	650	1200	44.5
7064AC	320	480	74	352	452	3	465	795	650	1200	47.2
7064B	320	480	74	352	452	3	415	715	600	1100	46.9
7072AC	360	540	82	398	507	4	530	960	550	1000	62.4
7076AC	380	600	90	419	527	4	495	875	500	900	67.9
7076B	380	600	90	419	527	4	440	700	450	800	66.7
7080AC	400	600	90	439	566	4	555	1010	450	800	85.9
7080B	400	600	90	439	566	4	500	915	400	700	86.2
7084AC	420	620	90	460	596	4	610	1190	400	700	90.3
7084B	420	620	90	460	596	4	550	1070	380	650	90.6
7092AC	460	680	100	488	652	5	720	1510	380	650	119
7096AC	480	700	100	508	672	5	715	1520	380	650	123
70/500AC	500	720	100	528	692	5	735	1590	350	600	129

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