

718 SERIES ULTRA-THIN PRECISION BEARINGS

718 Series Angular Contact Ball Bearings

Ultra-thin section angular contact ball bearings engineered for space-critical and weight-sensitive applications, offering compact design, high running accuracy, and reliable performance in robotics, aerospace mechanisms, and precision equipment.



- ✓ Narrow cross-section
- ✓ Space-saving design
- ✓ High-speed precision use

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	
71800C	10	19	5	11.5	17.5	0.3	1.8	0.9	80000	120000	0.005
71800AC	10	19	5	11.5	17.5	0.3	1.7	0.85	70000	105000	0.005
71801C	12	21	5	13.5	19.5	0.3	1.9	1.0	70000	105000	0.006
71801AC	12	21	5	13.5	19.5	0.3	1.8	0.95	63000	95000	0.006
71802C	15	24	5	16.5	22.5	0.3	2.1	1.3	60000	90000	0.007
71802AC	15	24	5	16.5	22.5	0.3	2.0	1.2	53000	80000	0.007
71803C	17	26	5	18.5	24.5	0.3	2.3	1.5	53000	80000	0.008
71803AC	17	26	5	18.5	24.5	0.3	2.2	1.4	48000	70000	0.008
71804C	20	32	7	22	30	0.3	4.1	2.6	45000	67000	0.018
71804AC	20	32	7	22	30	0.3	3.9	2.5	40000	60000	0.018
71805C	25	37	7	27	35	0.3	4.5	3.2	38000	56000	0.022
71805AC	25	37	7	27	35	0.3	4.3	3.0	34000	50000	0.022
71806C	30	42	7	32	40	0.3	4.8	3.8	32000	48000	0.026
71806AC	30	42	7	32	40	0.3	4.6	3.6	28000	43000	0.026
71807C	35	47	7	37	45	0.3	5.1	4.3	28000	43000	0.030
71807AC	35	47	7	37	45	0.3	4.8	4.1	24000	38000	0.030
71808C	40	52	7	42	50	0.3	5.4	4.8	24000	36000	0.034
71808AC	40	52	7	42	50	0.3	5.1	4.6	22000	32000	0.034
71809C	45	58	7	47	56	0.3	6.1	5.7	22000	34000	0.040
71809AC	45	58	7	47	56	0.3	5.8	5.4	20000	30000	0.040
71810C	50	65	7	52	63	0.3	6.5	6.4	20000	30000	0.052
71810AC	50	65	7	52	63	0.3	6.2	6.1	18000	26000	0.052
71811C	55	72	9	58	69	0.3	8.8	8.5	18000	28000	0.083
71811AC	55	72	9	58	69	0.3	8.4	8.1	16000	24000	0.083

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	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
71812C	60	78	9	63	75	0.3	9.2	9.3	17000	26000	0.095
71812AC	60	78	9	63	75	0.3	8.7	8.8	15000	22000	0.095
71813C	65	85	10	68.5	81.5	0.6	11.5	11.6	16000	24000	0.130
71813AC	65	85	10	68.5	81.5	0.6	10.9	11.0	14000	20000	0.130
71814C	70	90	10	73.5	86.5	0.6	12.1	12.7	15000	22000	0.140
71814AC	70	90	10	73.5	86.5	0.6	11.5	12.1	13000	19000	0.140
71815C	75	95	10	78.5	91.5	0.6	12.5	13.7	14000	20000	0.145
71815AC	75	95	10	78.5	91.5	0.6	11.9	13.0	12000	18000	0.145
71816C	80	100	10	83.5	96.5	0.6	12.8	14.6	13000	19000	0.155
71816AC	80	100	10	83.5	96.5	0.6	12.2	13.9	11000	17000	0.155
71817C	85	110	13	89	106	0.6	18.5	20.4	12000	18000	0.260
71817AC	85	110	13	89	106	0.6	17.6	19.4	10000	16000	0.260
71818C	90	115	13	94	111	0.6	19.2	22.0	11000	17000	0.270
71818AC	90	115	13	94	111	0.6	18.2	20.9	9500	15000	0.270
71819C	95	120	13	99	116	0.6	19.6	23.2	11000	16000	0.290
71819AC	95	120	13	99	116	0.6	18.6	22.0	9000	14000	0.290
71820C	100	125	13	104	121	0.6	20.4	24.5	10000	15000	0.310
71820AC	100	125	13	104	121	0.6	19.4	23.3	8500	13000	0.310
71821C	105	130	13	109	126	0.6	20.8	26.0	9500	14000	0.320
71821AC	105	130	13	109	126	0.6	19.8	24.7	8000	12000	0.320
71822C	110	140	16	115	135	1	28.5	34.5	9000	13000	0.520
71822AC	110	140	16	115	135	1	27.1	32.8	7500	11000	0.520
71824C	120	150	16	125	145	1	30.5	38.5	8000	12000	0.560
71824AC	120	150	16	125	145	1	29.0	36.6	6700	10000	0.560
71826C	130	165	18	136	159	1	38.0	48.5	7500	11000	0.810
71826AC	130	165	18	136	159	1	36.1	46.1	6300	9500	0.810
71828C	140	175	18	146	169	1	39.5	52.0	6700	10000	0.870
71828AC	140	175	18	146	169	1	37.5	49.4	5600	8500	0.870
71830C	150	190	20	157	183	1.1	49.5	65.5	6300	9500	1.20
71830AC	150	190	20	157	183	1.1	47.0	62.2	5300	8000	1.20
71832C	160	200	20	167	193	1.1	51.0	70.5	6000	9000	1.25
71832AC	160	200	20	167	193	1.1	48.5	67.0	5000	7500	1.25
71834C	170	215	22	177	208	1.1	62.0	86.5	5600	8500	1.70
71834AC	170	215	22	177	208	1.1	58.9	82.2	4800	7000	1.70
71836C	180	225	22	187	218	1.1	64.0	91.5	5300	8000	1.80
71836AC	180	225	22	187	218	1.1	60.8	86.9	4500	6700	1.80
71838C	190	240	24	198	232	1.5	76.5	110	5000	7500	2.35
71838AC	190	240	24	198	232	1.5	72.7	105	4300	6300	2.35
71840C	200	250	24	208	242	1.5	78.5	116	4800	7000	2.45

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	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
71840AC	200	250	24	208	242	1.5	74.6	110	4000	6000	2.45
71844C	220	270	24	228	262	1.5	82.5	127	4300	6300	2.70
71844AC	220	270	24	228	262	1.5	78.4	121	3600	5300	2.70
71848C	240	300	28	249	291	2	108	166	4000	6000	4.10
71848AC	240	300	28	249	291	2	103	158	3400	5000	4.10
71852C	260	320	28	269	311	2	112	180	3600	5300	4.45
71852AC	260	320	28	269	311	2	106	171	3000	4500	4.45
71856C	280	350	33	291	339	2	146	236	3400	5000	6.70
71856AC	280	350	33	291	339	2	139	224	2800	4300	6.70
71860C	300	380	38	312	368	2.1	183	305	3000	4500	9.50
71860AC	300	380	38	312	368	2.1	174	290	2600	3800	9.50
71864C	320	400	38	332	388	2.1	190	325	2800	4300	10.0
71864AC	320	400	38	332	388	2.1	181	309	2400	3600	10.0
71868C	340	420	38	352	408	2.1	196	345	2600	4000	10.5
71868AC	340	420	38	352	408	2.1	186	328	2200	3400	10.5
71872C	360	440	38	372	428	2.1	200	365	2400	3800	11.0
71872AC	360	440	38	372	428	2.1	190	347	2000	3200	11.0
71876C	380	480	46	394	466	2.1	260	480	2200	3400	18.0
71876AC	380	480	46	394	466	2.1	247	456	1900	2800	18.0
71880C	400	500	46	414	486	2.1	265	500	2000	3200	19.0
71880AC	400	500	46	414	486	2.1	252	475	1800	2600	19.0
71884C	420	520	46	434	506	2.1	275	530	1900	3000	20.0
71884AC	420	520	46	434	506	2.1	261	504	1700	2400	20.0
71888C	440	540	46	454	526	2.1	280	560	1800	2800	21.0
71888AC	440	540	46	454	526	2.1	266	532	1600	2200	21.0
71892C	460	580	56	477	563	2.5	365	735	1700	2600	32.0
71892AC	460	580	56	477	563	2.5	347	698	1500	2000	32.0
71896C	480	600	56	497	583	2.5	375	780	1600	2400	33.0
71896AC	480	600	56	497	583	2.5	356	741	1400	1900	33.0
718/500C	500	620	56	517	603	2.5	380	815	1500	2200	34.5
718/500AC	500	620	56	517	603	2.5	361	774	1300	1800	34.5

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