

719 SERIES ULTRA-LIGHT HIGH-SPEED BEARINGS

719 Series Angular Contact Ball Bearings

719 series angular contact ball bearings, also known as the ultra-light series, are engineered for extreme speeds, limited radial space, and high running accuracy. They are ideal for CNC machine tool spindles, grinding machines, precision measuring instruments, and other high-speed precision applications.



✓ Ultra-light series

✓ Extreme speed capability

✓ P4 / P2 precision classes

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	
71900C	10	22	6	12	20	0.3	2.7	1.4	75000	110000	0.01
71900AC	10	22	6	12	20	0.3	2.5	1.3	67000	100000	0.01
71901C	12	24	6	14	22	0.3	2.9	1.6	67000	100000	0.011
71901AC	12	24	6	14	22	0.3	2.7	1.5	60000	90000	0.011
71902C	15	28	7	17	26	0.3	4.3	2.5	56000	85000	0.016
71902AC	15	28	7	17	26	0.3	4.1	2.4	50000	75000	0.016
71903C	17	30	7	19	28	0.3	4.6	2.8	50000	75000	0.018
71903AC	17	30	7	19	28	0.3	4.4	2.6	45000	67000	0.018
71904C	20	37	9	23	34	0.3	7.2	4.5	43000	63000	0.036
71904AC	20	37	9	23	34	0.3	6.8	4.3	38000	56000	0.036
71905C	25	42	9	28	39	0.3	7.8	5.3	36000	53000	0.043
71905AC	25	42	9	28	39	0.3	7.4	5.0	32000	48000	0.043
71906C	30	47	9	33	44	0.3	8.5	6.3	30000	45000	0.049
71906AC	30	47	9	33	44	0.3	8.1	6.0	28000	40000	0.049
71907C	35	55	10	39	51	0.6	11.2	8.5	26000	40000	0.076
71907AC	35	55	10	39	51	0.6	10.6	8.1	24000	36000	0.076
71908C	40	62	12	44	58	0.6	13.8	10.8	24000	36000	0.11
71908AC	40	62	12	44	58	0.6	13.1	10.2	22000	32000	0.11
71909C	45	68	12	49	64	0.6	14.6	12.2	22000	32000	0.13
71909AC	45	68	12	49	64	0.6	13.8	11.6	19000	28000	0.13
71910C	50	72	12	54	68	0.6	15.3	13.5	20000	30000	0.14
71910AC	50	72	12	54	68	0.6	14.5	12.8	18000	26000	0.14
71911C	55	80	13	60	75	1	19.5	17.6	18000	28000	0.19
71911AC	55	80	13	60	75	1	18.5	16.7	16000	24000	0.19

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	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
71912C	60	85	13	65	80	1	20.4	19.3	17000	26000	0.2
71912AC	60	85	13	65	80	1	19.3	18.3	15000	22000	0.2
71913C	65	90	13	70	85	1	21.2	21.2	16000	24000	0.22
71913AC	65	90	13	70	85	1	20.1	20.1	14000	20000	0.22
71914C	70	100	16	75.5	94.5	1	31.5	31.5	14000	22000	0.35
71914AC	70	100	16	75.5	94.5	1	29.9	29.9	13000	19000	0.35
71915C	75	105	16	80.5	99.5	1	32.5	34.0	13000	20000	0.37
71915AC	75	105	16	80.5	99.5	1	30.8	32.3	12000	18000	0.37
71916C	80	110	16	85.5	104.5	1	33.5	36.5	12000	19000	0.39
71916AC	80	110	16	85.5	104.5	1	31.8	34.6	11000	17000	0.39
71917C	85	120	18	91.5	113.5	1.1	43.5	46.5	11000	17000	0.55
71917AC	85	120	18	91.5	113.5	1.1	41.3	44.1	10000	15000	0.55
71918C	90	125	18	96.5	118.5	1.1	44.5	49.5	11000	16000	0.58
71918AC	90	125	18	96.5	118.5	1.1	42.2	47.0	9500	14000	0.58
71919C	95	130	18	101.5	123.5	1.1	45.5	52.5	10000	15000	0.61
71919AC	95	130	18	101.5	123.5	1.1	43.2	49.8	9000	13000	0.61
71920C	100	140	20	107	133	1.1	56.5	65.5	9500	14000	0.81
71920AC	100	140	20	107	133	1.1	53.6	62.2	8500	12000	0.81
71921C	105	145	20	112	138	1.1	57.5	69.5	9000	13000	0.85
71921AC	105	145	20	112	138	1.1	54.6	66.0	8000	12000	0.85
71922C	110	150	20	117	143	1.1	59.0	73.5	8500	13000	0.89
71922AC	110	150	20	117	143	1.1	56.0	69.8	7500	11000	0.89
71924C	120	165	22	128	157	1.1	74.5	93.5	7500	11000	1.2
71924AC	120	165	22	128	157	1.1	70.7	88.8	6700	10000	1.2
71926C	130	180	24	139	171	1.5	92.0	118	7000	10000	1.6
71926AC	130	180	24	139	171	1.5	87.4	112	6000	9000	1.6
71928C	140	190	24	149	181	1.5	95.5	127	6300	9500	1.75
71928AC	140	190	24	149	181	1.5	90.7	120	5600	8500	1.75
71930C	150	210	28	160	200	2	123	163	6000	9000	2.55
71930AC	150	210	28	160	200	2	116	154	5300	8000	2.55
71932C	160	220	28	170	210	2	127	176	5600	8500	2.7
71932AC	160	220	28	170	210	2	120	167	5000	7500	2.7
71934C	170	230	28	180	220	2	131	186	5300	8000	2.85
71934AC	170	230	28	180	220	2	124	176	4800	7000	2.85
71936C	180	250	33	192	238	2	165	236	4800	7500	4.25
71936AC	180	250	33	192	238	2	156	224	4300	6300	4.25
71938C	190	260	33	202	248	2	170	250	4500	6700	4.45
71938AC	190	260	33	202	248	2	161	237	4000	6000	4.45
71940C	200	280	38	212	268	2.1	208	310	4300	6300	6.15

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	d	D	B	da min	Da max	ra max	Cr	Cor	Grease	Oil	
71940AC	200	280	38	212	268	2.1	197	294	3800	5600	6.15
71944C	220	300	38	232	288	2	216	345	4000	6000	6.6
71944AC	220	300	38	232	288	2	205	325	3500	5300	6.6
71948C	240	320	38	252	308	2	224	375	3600	5300	7.2
71948AC	240	320	38	252	308	2	212	355	3200	4800	7.2
71952C	260	360	46	274	346	2	285	480	3200	4800	12.5
71952AC	260	360	46	274	346	2	270	455	2800	4300	12.5
71956C	280	380	46	294	366	2	290	510	3000	4500	13.5
71956AC	280	380	46	294	366	2	275	485	2600	4000	13.5
71960C	300	420	56	317	403	2.5	380	670	2800	4000	21
71960AC	300	420	56	317	403	2.5	360	635	2400	3600	21
71964C	320	440	56	337	423	2.5	390	720	2600	3800	22.5
71964AC	320	440	56	337	423	2.5	370	685	2200	3400	22.5
71968C	340	460	56	357	443	2.5	400	765	2400	3600	23.5
71968AC	340	460	56	357	443	2.5	380	725	2000	3200	23.5
71972C	360	480	56	377	463	2.5	415	815	2200	3400	25
71972AC	360	480	56	377	463	2.5	395	775	1900	3000	25
71976C	380	520	65	400	500	3	520	1020	2000	3000	36.5
71976AC	380	520	65	400	500	3	495	970	1800	2600	36.5
71980C	400	540	65	420	520	3	530	1080	1900	2800	38.5
71980AC	400	540	65	420	520	3	505	1020	1700	2400	38.5
71984C	420	560	65	440	540	3	540	1120	1800	2600	40.5
71984AC	420	560	65	440	540	3	515	1060	1600	2200	40.5
71988C	440	600	74	462	578	3	670	1400	1700	2400	55
71988AC	440	600	74	462	578	3	635	1330	1500	2000	55
71992C	460	620	74	482	598	3	680	1460	1600	2200	57
71992AC	460	620	74	482	598	3	645	1380	1400	1900	57
71996C	480	650	78	502	628	3	765	1660	1500	2000	68
71996AC	480	650	78	502	628	3	725	1570	1300	1800	68
719/500C	500	670	78	522	648	3	780	1730	1400	1900	71
719/500AC	500	670	78	522	648	3	740	1640	1200	1700	71

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