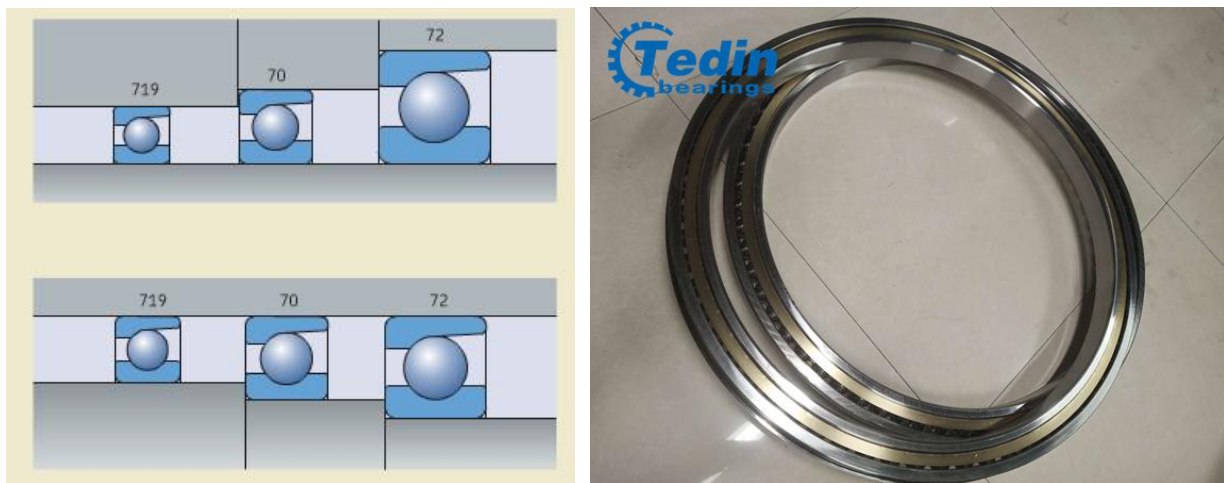


719 series Angular Contact Ball Bearings

The 719 series angular contact ball bearing is particularly suitable for applications with high stiffness requirements because it contains the largest number of balls relative to its inside diameter and can accommodate the largest shaft diameter relative to its outside diameter. These two characteristics are particularly important for the stiffness of the system. With the increase of the shaft diameter, the stiffness of the shaft increases, and with the increase of the number of balls, the stiffness of the bearing also increases.



As showed on the above structure:

719 series is the ultra-light series among angular contact ball bearings;

70 series is the light-series among angular contact ball bearings;

72 series is the strengthening series among angular contact ball bearings;

Application:

According to different working conditions, it can be combined in many ways to obtain different bearing capacity of radial and axial load, and meet the requirements of high speed, diameter and axial high stiffness. Therefore, it is widely used in the spindle of precision machine tools.

719 or 70 series bearings should be selected when the rotating speed is high or the radial installation space is small; for heavy load and relatively low speed, 72 series bearings are more suitable.

Type Number	Dimensions					Basic Load Rating		Weight	Installation Size				Limiting Speed	
	mm					kN		kg	mm				r/min	
	d	D	B	Tmin	hmin	Cr	Cor		da	Da	Ta	ra1	Grease	Oil
71920	100	140	20	1.1	0.6	60.6	65.5	0.8	106	134	1	1	8500	14000



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71922	110	150	20	1.1	0.6	62.4	72	0.86	116	144	1	1	8000	13000
71924	120	150	20	1.1	0.6	24.7	25.5	1.15	116	144	1	1	10000	15000
71926	130	180	24	1.5	0.6	92.3	108	1.55	137	173	1.5	1.5	7000	11000
71928	140	190	24	1.5	0.6	95.6	116	1.65	147	183	1.5	1.5	6700	10000
71930	150	210	28	2	1	90	120	3	160	200	2	1	6300	9500
71932	160	220	28	2	1	109	129	3	170	210	2	1	6000	9000
71934	170	230	28	2	1	110	140	3.3	179	221	2	2	5600	8500
71938	190	260	33	2	1	139	177	4.45	199	255	2	2	5000	7500
71940	200	280	38	2.1	1.1	150	210	7.1	212	268	2	1	4300	6000
71944	220	300	38	2.1	1.1	200	250	7.2	232	288	2	1	3800	5600
71948	240	320	38	2.1	1.1	203	285	8.37	252	308	2	1	3200	4800
71952	260	360	46	2.1	1.1	242	345	13.5	272	348	2	1	1300	1800
71956	280	380	46	2.1	1.1	226	337	15	292	368	2	1	1100	1600
71964	320	440	56	3	1.1	350	550	25.5	334	426	2.5	1	800	1000
71968	340	460	56	3	1.1	292	510	27.5	354	446	2.5	1	800	1000
71972	360	480	56	3	1.1	350	600	29					800	1000
71976	380	520	65	4	1.5	369	661.5	40.5	395	505	3	1	850	1200
71980	400	540	65	4	1.5	380.7	702	42	415	525	3	1	800	1100
71984	420	560	65	4	1.5	327	603	44.5	435	545	3	1	700	950
71988	440	600	74	4	3	456.3	936	61	455	585	3	1	750	1000
71992	460	620	74	4	1.5	456	936	58	475	605	3	1	750	900
719/500	530	670	78	5	2	498	1098	78	518	652	4	1	630	850
719/530	560	710	82	5	2	556	1206	92	558	692	4	1	1000	1500
719/560	600	750	85	5	2	533	1161	105	578	732	4	2	560	750
719/600	630	800	90	5	2	644	1557	125	618	782	4	2	900	1300
719/710	750	950	106	6	3	767	1980	195	733	927	5	2	800	1100

For more information, please contact [Tedin's](#) technical center.