Preload Change - (HY)S619xx

High Precision Ball Bearings

Preload change dimensions for bearing pairs. If a single bearing is to be adjusted, the below measurement must be divided by two.

	O-Arrangement	X-Arrangement
Width of inner spacer smaller than outer spacer	Increase of preload	Decrease of preload
Width of outer spacer smaller than inner spacer	Decrease of preload	Increase of preload

	L [N]	Difference [micron]	M [N]	Difference [micron]	S [N]
S 619/5 C	6	5	18	5	36
S 619/6 C	7	5	20	5	40
S 619/7 C	8	5	23	5	46
S 619/8 C	12	6	30	6	70
S 619/9 C	12	7	35	5	75
S 61900 C	12	7	40	5	75
S 61901 C	15	6	40	6	85
S 61902 C	22	8	43	8	140
S 61903 C	25	8	70	8	150
S 61904 C	35	9	75	8	220
S 61905 C	40	9	110	9	240
S 61906 C	40	8	120	8	240
S 61907 C	55	9	165	9	330
S 61908 C	75	11	230	11	460
S 61909 C	80	9	230	10	460
S 61910 C	80	9	230	10	460
S 61911 C	90	11	280	11	560
S 61912 C	100	11	300	11	600
S 61913 C	100	10	300	10	600
S 61914 C	130	11	370	11	740
S 61915 C	150	12	450	12	900
S 61916 C	180	13	540	13	1090
S 61917 C	200	14	610	14	1220
S 61918 C	210	14	620	14	1240
S 61919 C	210	14	630	14	1250
S 61920 C	260	16	790	16	1570
S 61921 C	270	16	800	16	1610
S 61922 C	270	16	820	16	1640
S 61924 C	340	18	1030	18	2060

	L [N]	Difference [micron]	M [N]	Difference [micron]	S [N]
S 61900 E	22	5	70	5	140
S 61901 E	25	4	75	5	150
S 61902 E	35	5	110	6	220
S 61903 E	40	5	120	6	240
S 61904 E	55	6	170	6	340
S 61905 E	60	5	180	6	360
S 61906 E	60	6	190	6	380
S 61907 E	90	6	260	7	520
S 61908 E	120	7	360	7	720
S 61909 E	120	7	360	7	720
S 61910 E	120	7	370	7	740
S 61911 E	150	7	440	8	880
S 61912 E	150	7	460	8	920
S 61913 E	160	7	470	8	940
S 61914 E	200	8	590	8	1180
S 61915 E	230	8	700	9	1400
S 61916 E	280	9	850	10	1710
S 61917 E	320	10	960	10	1910
S 61918 E	330	9	980	10	1960
S 61919 E	330	9	990	10	1990
S 61920 E	410	11	1240	12	2470
S 61921 E	420	11	1260	12	2520
S 61922 E	420	10	1270	11	2550
S 61924 E	540	12	1620	13	3240

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Width of inner spacer smaller than outer spacer	Increase of preload	Decrease of preload
Width of outer spacer smaller than inner spacer	Decrease of preload	Increase of preload

	L [N]	Difference [micron]	M [N]	Difference [micron]	S [N]
HY S 619/5 C	6	5	18	5	36
HY S 619/6 C	7	5	20	5	40
HY S 619/7 C	8	4	23	5	46
HY S 619/8 C	12	5	35	6	70
HY S 619/9 C	12	6	40	5	75
HY S 61900 C	12	6	40	5	75
HY S 61901 C	15	5	43	5	85
HY S 61902 C	22	7	70	7	140
HY S 61903 C	25	7	75	7	150
HY S 61904 C	35	8	110	8	220
HY S 61905 C	40	8	120	8	240
HY S 61906 C	40	7	120	7	240
HY S 61907 C	55	8	165	8	330
HY S 61908 C	75	10	230	10	460
HY S 61909 C	80	9	230	9	460
HY S 61910 C	80	9	230	9	460
HY S 61911 C	90	10	280	10	560
HY S 61912 C	100	10	300	10	600
HY S 61913 C	100	9	300	10	600
HY S 61914 C	130	10	370	10	740
HY S 61915 C	150	11	450	11	900
HY S 61916 C	180	12	540	12	1090
HY S 61917 C	200	13	610	13	1220
HY S 61918 C	210	12	620	13	1240
HY S 61919 C	210	13	630	13	1250
HY S 61920 C	260	15	790	15	1570
HY S 61921 C	270	14	800	15	1610
HY S 61922 C	270	14	820	15	1640
HY S 61924 C	340	16	1030	16	2060

	L [N]	Difference [micron]	M [N]	Difference [micron]	S [N]
HY S 61900 E	22	4	70	4	140
HY S 61901 E	25	4	75	4	150
HY S 61902 E	35	5	110	5	220
HY S 61903 E	40	5	120	5	240
HY S 61904 E	55	5	170	6	340
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HY S 61916 E	280	8	850	9	1710
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HY S 61921 E	420	10	1260	10	2520
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HY S 61924 E	540	11	1620	12	3240