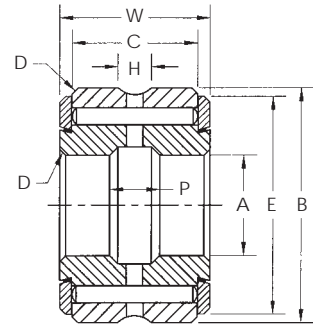


MS24461 (YAG SERIES)

Single Row



General Information

The **YAG Series Airframe Bearings** are manufactured in accordance with **MS24461** standards. The O.D. of these bearings are cadmium plated and designed to be mounted inside a housing. Each bearing consists of an inner race, outer race, needle rollers & end washers. Relubrication holes and grooves are provided. For corrosion protection all external surfaces except the bore are cadmium plated. Inner race grooves are omitted from the -3, -4, and -5 sizes due to bolt strength limitations. Consult our Engineering department for further specific requirements and special designs.

Dimensional Data (inches)

SMITH Bearing® Number	Military Number MS	ABMA Number	A Bore +0.000 -0.007	B Roller O.D. +0.000 -0.010	W Overall Width +0.000 -0.005	C Outer Race Width +0.000 -0.005	D Radius or 45° Chamfer	E End Ring Dia.	H Outer Race Groove Width	P Inner Ring Lube Width	d Min Clamp Dia.	Limit Load Rating (lbf)	Aircraft Static Capacity (lbf)	Weight Approx (lbs)
YAG-03-C	24461-3	3NBC511ZP	0.1900	0.6875	0.312	0.218	0.022	0.625	1/16	-	0.438	1800	2700	0.028
YAG-04-C	24461-4	4NBC612ZP	0.2500	0.7500	0.375	0.281	0.022	0.688	11/16	-	0.516	2870	4300	0.040
YAG-05-C	24461-5	5NBC713ZP	0.3125	0.8125	0.437	0.344	0.022	0.750	3/32	-	0.516	4070	6100	0.057
YAG-06	24461-6	6NBC914YZP	0.3750	0.8750	0.562	0.469	0.022	0.812	1/8	3/16	0.641	6330	9500	0.075
YAG-07	24461-7	7NBC1015YZP	0.4375	0.9375	0.625	0.531	0.032	0.875	1/8	3/16	0.703	8000	12000	0.097
YAG-08	24461-8	8NBC1012YZP	0.5000	1.1250	0.750	0.656	0.032	1.031	1/8	3/16	0.844	11600	17400	0.165
YAG-09	24461-9	9NBC1419YZP	0.5625	1.1875	0.875	0.781	0.032	1.094	5/32	3/16	0.891	15000	22500	0.207
YAG-10	24461-10	10NBC1620YZP	0.6250	1.2500	1.000	0.906	0.032	1.156	5/32	1/4	0.953	18900	28300	0.252
YAG-12	24461-12	12NBC1822YZP	0.7500	1.3750	1.125	1.000	0.032	1.281	5/32	1/4	1.078	23900	35800	0.336
YAG-14	24461-14	14NBC2026YZP	0.8750	1.6250	1.250	1.125	0.032	1.500	5/32	3/8	1.250	30500	45800	0.423
YAG-16	24461-16	16NBC2028YZP	1.0000	1.7500	1.250	1.125	0.032	1.625	5/32	3/8	1.375	33900	50900	0.510
YAG-20	24461-20	20NBC2032YZP	1.2500	2.0000	1.250	1.049	0.032	1.906	5/32	3/8	1.625	37900	56800	0.600
YAG-24	24461-24	24NBC2036YZP	1.5000	2.2500	1.250	1.049	0.032	2.156	5/32	3/8	1.875	44200	66300	0.710
YAG-28	24461-28	28NBC2040YZP	1.7500	2.5000	1.250	1.049	0.032	2.406	5/32	3/8	2.125	50500	75700	0.780
YAG-32	24461-32	32NBC2044YZP	2.0000	2.7500	1.250	1.049	0.032	2.656	5/32	3/8	2.375	56800	85200	0.880
YAG-36	24461-36	36NBC2048YZP	2.2500	3.0000	1.250	1.049	0.032	2.906	5/32	3/8	2.625	63100	94600	0.980
YAG-40	24461-40	40NBC2052YZP	2.5000	3.2500	1.250	1.049	0.032	3.156	5/32	3/8	2.875	69400	104100	1.060
YAG-44	24461-44	44NBC2056YZP	2.7500	3.5000	1.250	1.049	0.032	3.406	5/32	3/8	3.125	75700	113500	1.150
YAG-48	24461-48	44NBC2060YZP	3.0000	3.7500	1.250	1.049	0.032	3.656	5/32	3/8	3.375	82000	123000	1.240
YAG-52	24461-52	52NBC2064YZP	3.2500	4.0000	1.250	1.049	0.032	3.906	5/32	3/8	3.641	88300	132500	1.340
YAG-56	24461-56	56NBC2070YZP	3.5000	4.3750	1.250	1.049	0.044	4.219	5/32	3/8	3.969	96700	145100	1.730
YAG-60	24461-60	60NBC2074YZP	3.7500	4.6250	1.250	1.049	0.044	4.469	5/32	3/8	4.219	103000	154500	1.840
YAG-64	24461-64	64NBC2078YZP	4.0000	4.8750	1.250	1.049	0.044	4.719	5/32	3/8	4.469	109000	164000	1.990

MS24461 (YAG SERIES)

Single Row

(continued)

"A" Bore Tolerance

YAG-3 to YAG 52	+0.0000 / -0.0007
YAG-56 to YAG 64	+0.0000 / -0.0008

"D" Outer Diameter Tolerance

YAG-3 to YAG 16	+0.0000 / -0.0005
YAG-23 to YAG 36	+0.0000 / -0.0006
YAG-40 to YAG 60	+0.0000 / -0.0008
YAG 64	+0.0000 / -0.0010

Chart continued from previous page

Recommended Shaft Diameter				Recommended Housing Bore Diameter			
Slip Fit		Press Fit		Slip Fit		Press Fit	
Max	Min	Max	Min	Max	Min	Max	Min
0.1894	0.1889	0.1902	0.1897	0.6867	0.6872	0.6874	0.6879
0.2494	0.2489	0.2502	0.2497	0.7492	0.7497	0.7499	0.7504
0.3119	0.3114	0.3127	0.3122	0.8117	0.8122	0.8124	0.8129
0.3744	0.3739	0.3752	0.3747	0.8742	0.8747	0.8749	0.8754
0.4369	0.4364	0.4377	0.4372	0.9367	0.9372	0.9374	0.9379
0.4994	0.4989	0.5002	0.4997	1.1242	1.1247	1.1249	1.1254
0.5619	0.5614	0.5627	0.5622	1.1867	1.1872	1.1874	1.1879
0.6244	0.6239	0.6252	0.6247	1.2492	1.2497	1.2499	1.2504
0.7494	0.7489	0.7502	0.7497	1.3741	1.3747	1.3749	1.3755
0.8744	0.8739	0.8752	0.8747	1.6241	1.6247	1.6249	1.6255
0.9994	0.9989	1.0002	0.9997	1.7491	1.7497	1.7499	1.7505
1.2494	1.2488	1.2503	1.2497	1.9991	1.9997	1.9999	2.0005
1.4994	1.4988	1.5003	1.4997	2.2488	2.2496	2.2499	2.2507
1.7494	1.7488	1.7503	1.7497	2.4988	2.4996	2.4999	2.5007
1.9994	1.9987	2.0003	1.9996	2.7488	2.7496	2.7499	2.7507
2.2494	2.2487	2.2503	2.2496	2.9988	2.9996	2.9999	3.0007
2.4994	2.4987	2.5003	2.4996	3.2485	3.2495	3.2498	3.2508
2.7494	2.7487	2.7503	2.7496	3.4985	3.4995	3.4998	3.5008
2.9994	2.9987	3.0003	2.9996	3.7485	3.7495	3.7498	3.7508
3.2494	3.2486	3.2504	3.2496	3.9985	3.9995	3.9998	4.0008
3.4994	3.4986	3.5004	3.4996	4.3735	4.3745	4.3748	4.3758
3.7494	3.7486	3.7504	3.7496	4.6235	4.6245	4.6248	4.6258
3.9994	3.9986	4.0004	3.9996	4.8735	4.8745	4.8748	4.8758