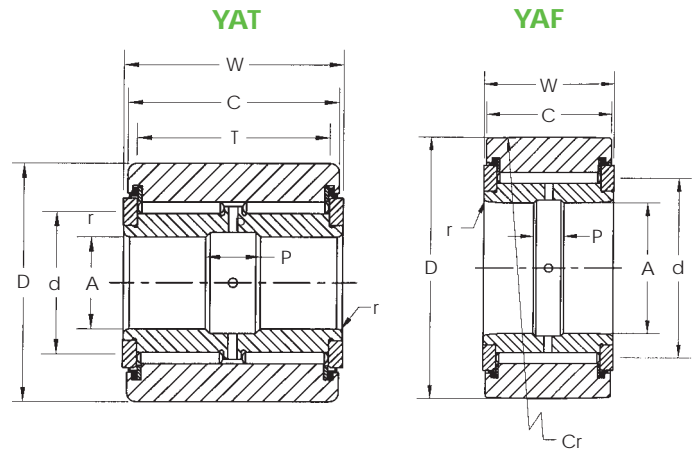


MS21438 (YAF SERIES)

Single Row

MS21439 (YAT SERIES)

Double Row



General Information

The **YAF Single Row** & **YAT Double Row** Series bearings are manufactured in accordance with **MS21438** & **MS21439** standards. The bearings are used in track roller applications with each bearing consisting of an inner race, outer race, needle rollers, end washers & thrust seals. Relubrication holes and grooves are provided. For wear and corrosion protection the outer ring surface is hard-chrome plated. Other exposed surfaces are cadmium or zinc-nickel plated. Inner rings may be black-oxide coated. Consult our Engineering Department for further specific requirements and special designs.

These bearings can be produced from stainless steel grade AMS 5898 & AMS 5925.

SMITH Bearing® Number	Military Number MS	A Bore +.0000 -.0007	D Roller O.D. +.0000 -.0010	W Overall Width +.000 -.005	C Outer Race Width +.000 -.005	T Track Contact Width Min.	Cr Crown radius	d Min. Clamp Dia.	P Lube Groove Width	r Radius	Limit Load Rating (lbf)	Rating As A Track Roller (lbf)	Track Capacity 40HRC (lbf)	Recommended Shaft Diameter				Weight Approx. (lbs)
														Slip Fit		Press Fit		
														Max	Min	Max	Min	
YAF-03	21438-103	0.1900	0.7500	0.312	0.280	-	10.000	0.438	3/32	0.022	1200	900	290	0.1894	0.1889	0.1902	0.1897	0.030
YAF-04	21438-104	0.2500	0.8750	0.375	0.345	-	10.000	0.516	1/8	0.022	1910	1430	575	0.2494	0.2489	0.2502	0.2497	0.051
YAF-06	21438-106	0.3750	1.0625	0.500	0.455	-	10.000	0.672	3/16	0.022	3600	2700	1000	0.3744	0.3739	0.3752	0.3747	0.103
YAF-08	21438-108	0.5000	1.3125	0.625	0.580	-	12.500	0.844	3/16	0.032	5780	4300	1785	0.4994	0.4989	0.5002	0.4997	0.187
YAF-10	21438-110	0.6250	1.5000	0.750	0.705	-	17.500	0.953	1/4	0.032	8530	6400	2600	0.6244	0.6239	0.6252	0.6247	0.279
YAF-12	21438-112	0.7500	1.7500	1.000	0.950	-	25.000	1.109	1/4	0.032	14200	10700	4050	0.7494	0.7489	0.7502	0.7497	0.520
YAF-14	21438-114	0.8750	2.0000	1.125	1.075	-	27.500	1.219	1/4	0.032	19300	14400	5350	0.8744	0.8739	0.8752	0.8747	0.749
YAF-20	21438-120	1.2500	2.5000	1.250	1.200	-	30.000	1.625	3/8	0.032	25300	18900	7100	1.2494	1.2488	1.2503	1.2497	1.160
YAF-24	21438-124	1.5000	3.0000	1.500	1.440	-	60.000	1.984	3/8	0.032	37900	28400	10900	1.4994	1.4988	1.5003	1.4997	2.360
YAF-28	21438-128	1.7500	3.4375	1.500	1.440	-	60.000	2.281	3/8	0.032	44100	33000	12400	1.7494	1.7488	1.7503	1.7497	2.710
YAF-32	21438-132	2.0000	3.8750	1.500	1.440	-	60.000	2.562	3/8	0.032	48900	36700	14000	1.9994	1.9987	2.0003	1.9996	3.420
YAF-36	21438-136	2.2500	4.3125	1.500	1.440	-	60.000	2.859	3/8	0.032	55000	41200	15600	2.2494	2.2487	2.2503	2.2496	4.230
YAF-40	21438-140	2.5000	4.7500	1.500	1.440	-	60.000	3.109	3/8	0.032	59900	44900	17200	2.4994	2.4987	2.5003	2.4996	5.140
YAF-44	21438-144	2.7500	5.0000	1.500	1.440	-	60.000	3.344	3/8	0.032	64800	48600	18100	2.7494	2.7487	2.7503	2.7496	5.490
YAT-06	21439-106	0.3750	1.1250	1.000	0.940	0.750	-	0.672	3/16	0.032	7130	5370	2600	0.3744	0.3739	0.3752	0.3747	0.239
YAT-08	21439-108	0.5000	1.3750	1.250	1.190	1.000	-	0.891	1/4	0.032	12500	9370	4250	0.4994	0.4989	0.5002	0.4997	0.437
YAT-10	21439-110	0.6250	1.6250	1.500	1.440	1.125	-	1.109	3/8	0.032	19900	15000	5650	0.6244	0.6239	0.6252	0.6247	0.728
YAT-12	21439-112	0.7500	1.8750	1.750	1.690	1.375	-	1.281	3/8	0.032	28500	21400	7950	0.7494	0.7489	0.7502	0.7497	1.130