

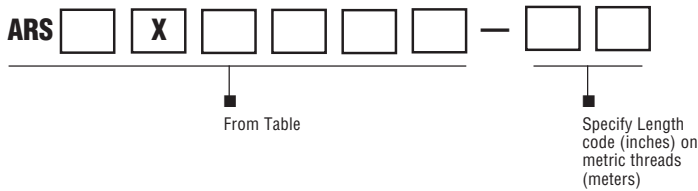
# PRECISION ACME LEAD SCREWS

Inch and Metric

.003 Inch/Foot Lead Accuracy



Part Number



**Material:** 303 Stainless Steel

**Features:**

- Screws are precision rolled.
- Lead accuracy of  $\pm .003$ " per foot.
- Straightness tolerance of .010" per foot.
- Class 2G Thread
- Burnished finish of 24 RMS or better due to the rolling process.
- 303 stainless steel used for uniform grain structure to improve lead accuracy and finish.

**Available on request & special quotation:**

- Teflon "S" coated lead screw assemblies with film thickness of .0005 to .001. Coating improves distribution of lubricant whereby it improves the coefficient of friction between the nut and screw, with reduced torque needed to drive the lead screw assembly. The Teflon coated lead screw assembly increases useful life of the system by more than twofold.

**Teflon "S" Coating Properties:**

- Coefficient of friction:
  - static = .12
  - dynamic = .10
- Abrasion resistance (TABER) (weight loss in grams, 100 cycles) .04
- Hardness, coating Knoop scale 9-12
- Thickness .0005 to .001 in.

Screw Dia. (in.)	Screw Size	Lead (in.)	Minor Root Dia. (in.)	Efficiency (%)	Weight per ft. (lbs.)	Standard Length (in.)	Part No. Add length to end of Part No.	
3/16	3/16 - 20	0.050	0.119	46	.06	12, 36, 72	ARS1X1820 - <input type="checkbox"/> <input type="checkbox"/>	
1/4	1/4 - 20	0.050	0.190	38	.13		ARS1X2520 - <input type="checkbox"/> <input type="checkbox"/> *	
	1/4 - 16	0.0625	0.170	44	.13		ARS1X2516 - <input type="checkbox"/> <input type="checkbox"/> *	
5/16	5/16 - 8, 4 start (stub)	0.500	0.218	71	.19		ARS4X3108 - <input type="checkbox"/> <input type="checkbox"/>	
3/8	3/8 - 20	0.050	0.315	29	.31		ARS1X3720 - <input type="checkbox"/> <input type="checkbox"/>	
	3/8 - 16	0.0625	0.303	34	.31		ARS1X3716 - <input type="checkbox"/> <input type="checkbox"/> *	
	3/8 - 10	0.100	0.255	46	.27		ARS1X3710 - <input type="checkbox"/> <input type="checkbox"/> *	
	3/8 - 8 (stub)	0.125	0.280	52	.30		ARS1X3708 - <input type="checkbox"/> <input type="checkbox"/>	
	3/8 - 10, 2 start	0.200	0.255	66	.27		ARS2X3710 - <input type="checkbox"/> <input type="checkbox"/>	
	3/8 - 8, 2 start (stub)	0.250	0.280	67	.26		ARS2X3708 - <input type="checkbox"/> <input type="checkbox"/>	
	3/8 - 8, 4 start (stub)	0.500	0.270	77	.28	ARS4X3708 - <input type="checkbox"/> <input type="checkbox"/>		
	3/8 - 5, 5 start	1.000	0.255	79	.27	ARS5X3705 - <input type="checkbox"/> <input type="checkbox"/> **		
3/8 - 4, 5 start (stub)	1.250	0.243	75	.28	ARS5X3704 - <input type="checkbox"/> <input type="checkbox"/> **			
7/16	7/16 - 8, 2 start (stub)	0.250	0.327	64	.40	24, 48, 72	ARS2X4308 - <input type="checkbox"/> <input type="checkbox"/>	
	7/16 - 8, 4 start (stub)	0.500	0.327	75	.42		ARS4X4308 - <input type="checkbox"/> <input type="checkbox"/>	
1/2	1/2 - 10	0.100	0.380	38	.53		ARS1X5010 - <input type="checkbox"/> <input type="checkbox"/> *	
	1/2 - 10, 2 start	0.200	0.380	55	.80		ARS2X5010 - <input type="checkbox"/> <input type="checkbox"/>	
5/8	5/8 - 10	0.100	0.505	32	.85		ARS1X6210 - <input type="checkbox"/> <input type="checkbox"/> *	
	5/8 - 8 (stub)	0.125	0.530	38	.48		ARS1X6208 - <input type="checkbox"/> <input type="checkbox"/>	
	5/8 - 10, 2 start	0.200	0.505	49	.85		ARS2X6210 - <input type="checkbox"/> <input type="checkbox"/>	
Screw Dia. (mm)	Trapezoidal Metric Thread (ISO)	Lead (mm)	Minor Root Dia. (mm)	Efficiency (%)	Weight per meter (kg)		Standard Length (meter)	Part No. Add length to end of Part No.
4	4 x 1 mm	1	2.5	44	.3		.5, 1.0, 1.8	ARS1X041M - <input type="checkbox"/> <input type="checkbox"/>
8	8 x 2 mm	2	5.5	44	.6			ARS1X082M - <input type="checkbox"/> <input type="checkbox"/>
10	10 x 2 mm	2	7.5	38	.7	ARS1X102M - <input type="checkbox"/> <input type="checkbox"/>		
10	10 x 1.5 mm, 4 start	6	7.9	63	.7	ARS4X101M - <input type="checkbox"/> <input type="checkbox"/> ***		
14	14 x 4 mm	4	9.5	47	.9	ARS1X144M - <input type="checkbox"/> <input type="checkbox"/> ***		

**NOTE:** Screws should not require lubrication. For those instances where lubrication may be desired, a silicone or lithium-based lubricant is suggested.

\* Left hand thread available.

\*\* 36" max length.

\*\*\* 416 Stainless Steel only.