

Precision Lead Screw Sizes

A complete list of lead screw sizes and specifications.

Lead Screw Product Overview

With over 40 years of engineering expertise, HELIX offers the most high-tech lead screw products in the world.

- 141 NEW precision miniature lead screw sizes
- Patented nut technology
- Sizes ranging from 1/8 " – 1.0" diameter
- 4mm – 25.4mm diameter



Lead Screw Product Overview

Series	HELIX Precision Lead Screw
Lead Accuracy	Standard - 250 μ m/300mm Precision - 75 μ m/300mm
Diameter	4mm to 25.4mm Precision - 75 μ m/300mm
Lead	0.024" - 3.00"
Backlash	.02 to .25mm (standard nut) Zero backlash nut available
Dynamic Load	Up to 1550 N
Max. Staic Load	Up to 6775 N
Material	300 Series Stainless Steel



Lead Screw Product Availability - Inches

LEAD (Inches)	
Diameter	0.0240 0.0250 0.0313 0.0394 0.0480 0.0500 0.0625 0.0750 0.0787 0.0833 0.0960 0.1000 0.1250 0.1575 0.1660
1/8	Available
3/16	Available
1/4	Available
5/16	Available
3/8	Available
7/16	Available
1/2	Available
9/16	Available
5/8	Available
3/4	Available
7/8	Available
1.0"	Available

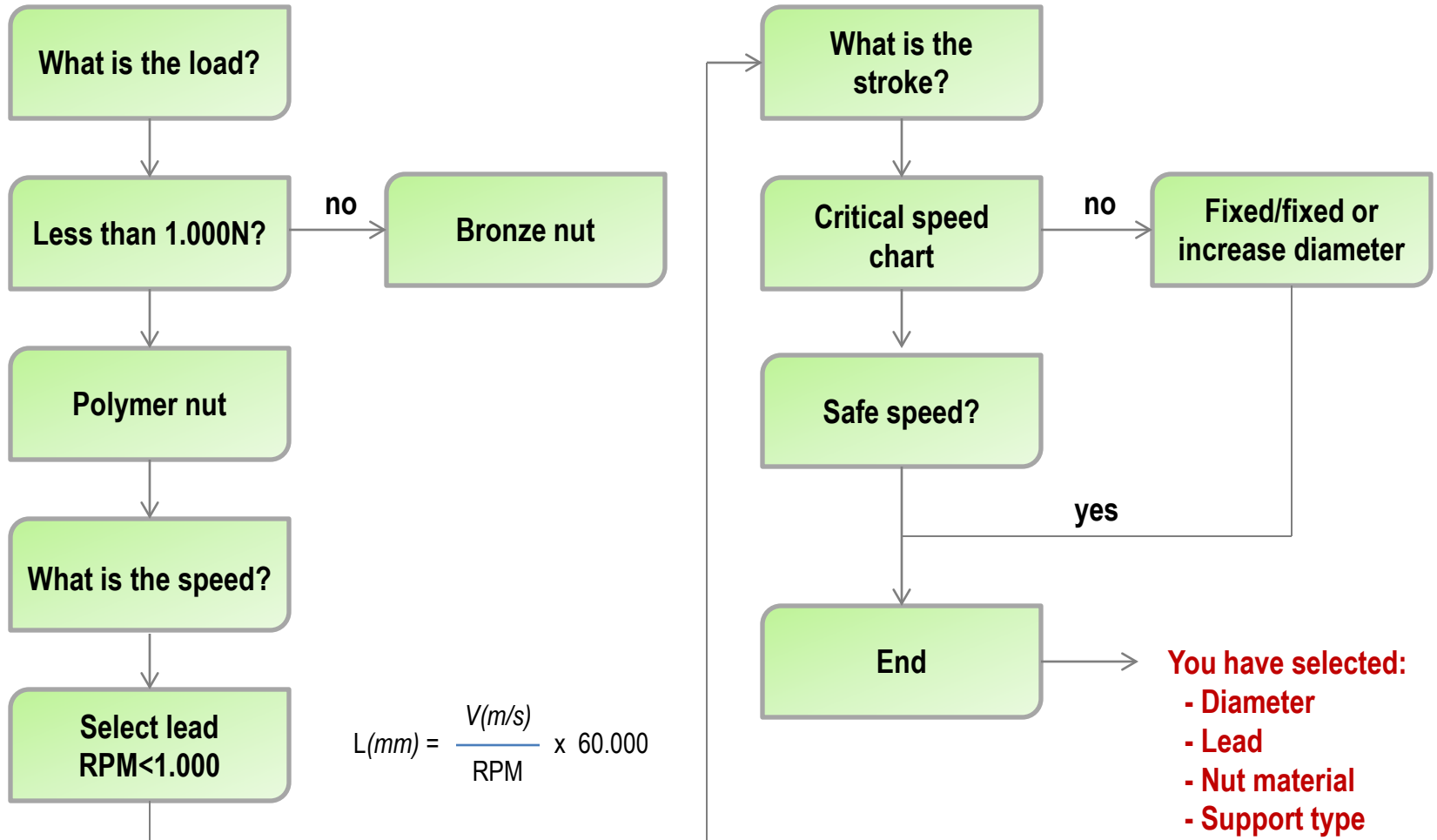
LEAD (Inches)	
Diameter	0.1667 0.1969 0.2000 0.2500 0.3330 0.3750 0.3937 0.400 0.500 1.000 1.201 1.250 1.402 1.598 3.00
1/8	Available
3/16	Available
1/4	Available
5/16	Available
3/8	Available
7/16	Available
1/2	Available
9/16	Available
5/8	Available
3/4	Available
7/8	Available
1.0"	Available

Lead Screw Product Availability - Metric

		LEAD (MM)													
Diameter	3.0	4.0	5.0	7.5	8.0	10.0	12.0	15.0	16.0	18.0	20.0	21.0	24.0	25.0	
4mm						█									
5mm			█								█				
6mm															
8mm		█		█	█	█	█	█			█			█	
10mm	█					█	█	█							
12mm	█							█						█	
14mm					█					█	█				
16mm		█									█	█		█	
18mm									█				█		
20mm		█					█								
22mm											█				
24mm															

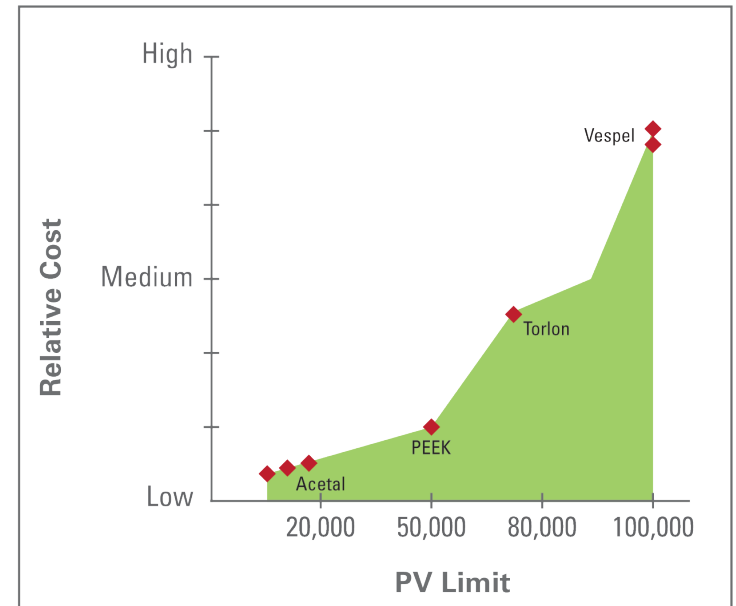
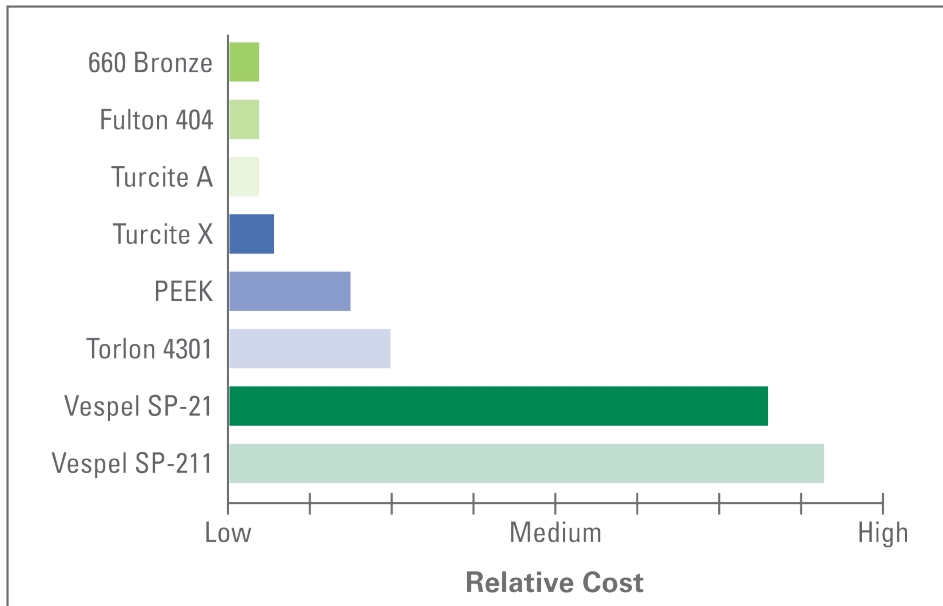
		LEAD (MM)													
Diameter	27.0	30.0	35.0	40.0	45.0	45.7	50.0	55.0	50.8	60.0	70.0	80.0	90.0	100.0	
4mm															
5mm															
6mm															
8mm		█													
10mm			█				█								
12mm				█	█					█					
14mm		█									█				
16mm			█				█					█	█		
18mm		█		█						█				█	
20mm	█				█										
22mm			█				█								
24mm		█		█				█							

Lead Screw Sizing Process



Relative Cost of Nut Materials

- Load capacity can be increased by material selection
- Price increases greatly with performance
- Plastics such as Vespel only specified when critical



Consult HELIX to Determine the Right Lead Screw Size for You

For design engineers who have more screw sizing questions or need a screw thread form that isn't standard, contact Helix. Whatever configuration you need, we can walk you through the process of specifying a screw size and thread form that best fits your particular application.

To learn more about HELIX lead screw product options and capabilities, download a copy of our newest catalog.



We hope you found this presentation helpful.

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