

200 Series Linear Stages

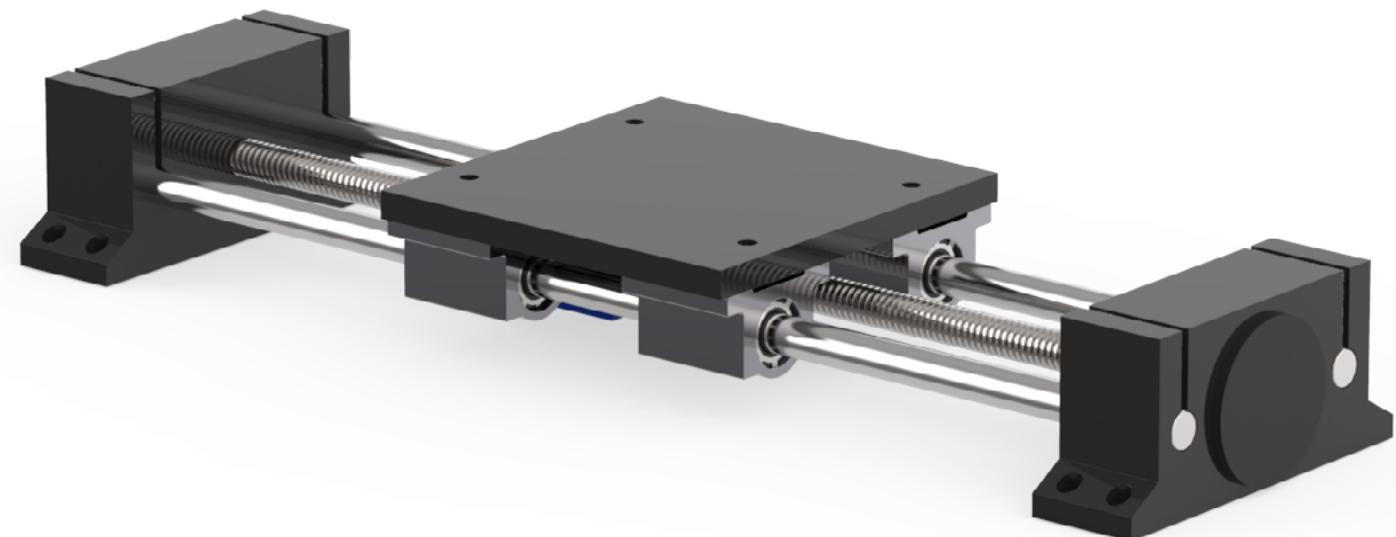
HELIX
LINEAR TECHNOLOGIES

Partners



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Certifications



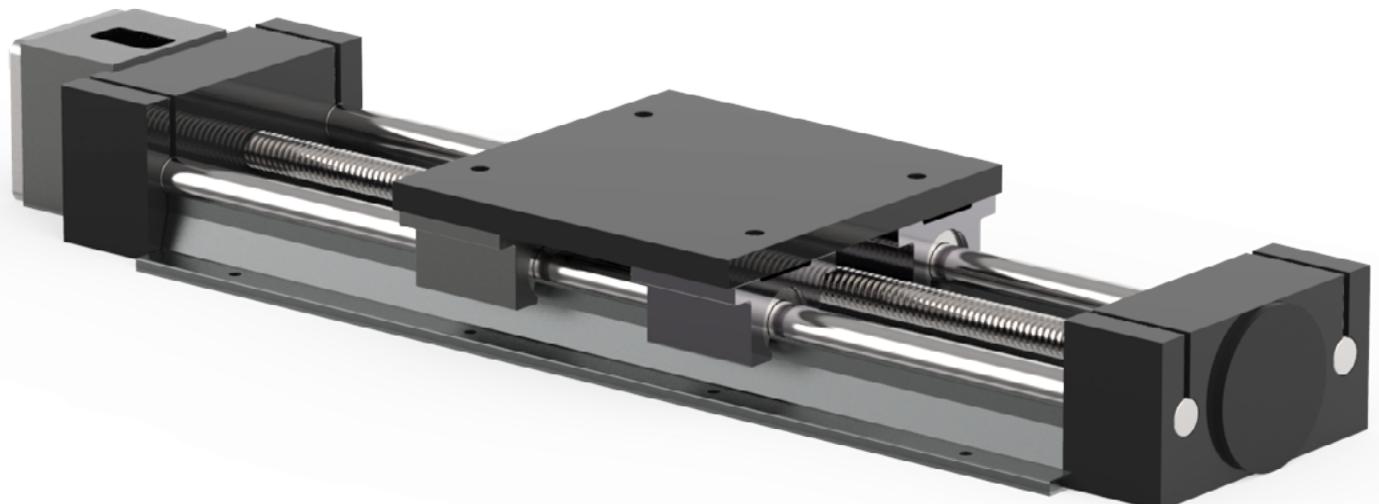
ISO 9001:2015 with Design
Certificate No. 14.339.2



CERTIFIED



ITAR Registered



Market Segments Served

- Medical & Diagnostic
- Aerospace
- Packaging
- Automotive

- Electronics
- Transportation
- Patient Handling
- Entertainment

- Semiconductors
- Military and Defense
- Factory Automation
- Pulp & Paper

- Steel
- Chemical
- Agriculture/Food Handling
- Tire Manufacture



Helix Linear Technologies, Inc., Beachwood, Ohio USA

Company

Helix Linear Technologies is a global manufacturer of linear actuators, lead screws and ball screws. Serving clients in the aerospace, medical, life science, security, semiconductor, and defense industries, we focus on helping our customers achieve their application and profitability goals. Our innovative product design and world-class engineering capabilities solve real-world linear motion issues, building a foundation for our client's long-term success.

Culture

Our culture is rooted in agility, responsiveness, and teamwork. Our team comprises happy, competitive professionals who are experts in manufacturing innovative electromechanical linear motion solutions. We strive to exceed our customers' expectations and are committed to continuous improvement.

History

Helix Linear Technologies was founded in 2011 to meet the growing demand for high-precision lead screws in the electromechanical actuation industry. Our rapid growth and expanded product lines now include end-to-end linear actuator solutions, providing our clients with customized options and fully integrated solutions.

Part Number Configuration

252 - 8 - L18 - 050999 - A23 - B	
200 Series	
Mount Style	
12 = End Supported	
52 = Fully Supported	
Shaft Code	
8 = .500" (12.7 mm)	
12 = .750" (19.05 mm)	
16 = 1.00" (25.4 mm)	
24 = 1.50" (38.1 mm)	
Overall Length (in inches)	
L18 L48	
L24 L54	
L30 L60	
L36 L66	
L42 L72	
Screw Code	
See table below	
Motor Adapter (NEMA)	
A23 = NEMA 23	
A34 = NEMA 34	
A42 = NEMA 42	
A56 = NEMA 56	
00 = no motor	
Modifier	
S = Standard Configuration	
B = With Bellows Boot	

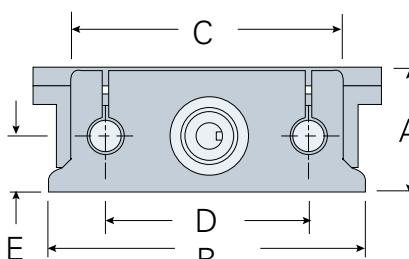
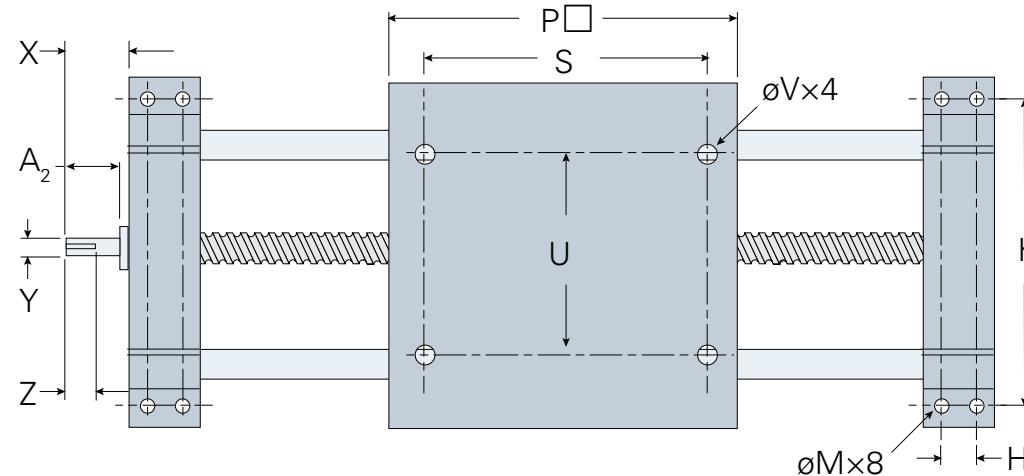
Series 200 Linear Actuators come as a completely assembled system that includes: linear bearing pillow blocks, integrated end supports, HG linear shafts, carriage plate and acme screw assembly. Many configurable options are available for these systems to include various screw styles and leads, protective boots, specialized motor mounts and custom carriage plate machining.

Screw Codes

Screw Code	Shaft Code	Diameter		Lead	
		in	mm	in	mm
050999	8	.500	12.7	1.000	25.4
050500	8	.500	12.7	.500	12.7
050200	8	.500	12.7	.200	5.1
050100	8	.500	12.7	.100	2.5
075100	12	.750	19.1	.100	2.5
100999	16	1.000	25.4	1.000	25.4
100100	16	1.000	25.4	.100	2.5
150100	24	1.500	38.1	.100	2.5
150200	24	1.500	38.1	.200	5.1
150250	24	1.500	38.1	.250	6.4
150375	24	1.500	38.1	.375	9.5
150500	24	1.500	38.1	.500	12.7

212 Series

End-Supported Linear Slide



Carriage Dimensions

Screw Diameter	P	S	U	V	W
in	mm	in	mm	in	mm
.50	12.7	5.50	139.7	4.50	114.3
.75	19.1	7.50	190.5	6.00	152.4
1.00	25.4	9.00	228.6	7.00	177.8
1.50	38.1	13.00	330.2	10.00	254.0
				8.00	203.2
				1.50	12.7
				.50	12.7
				.38	9.7

Hole Configuration

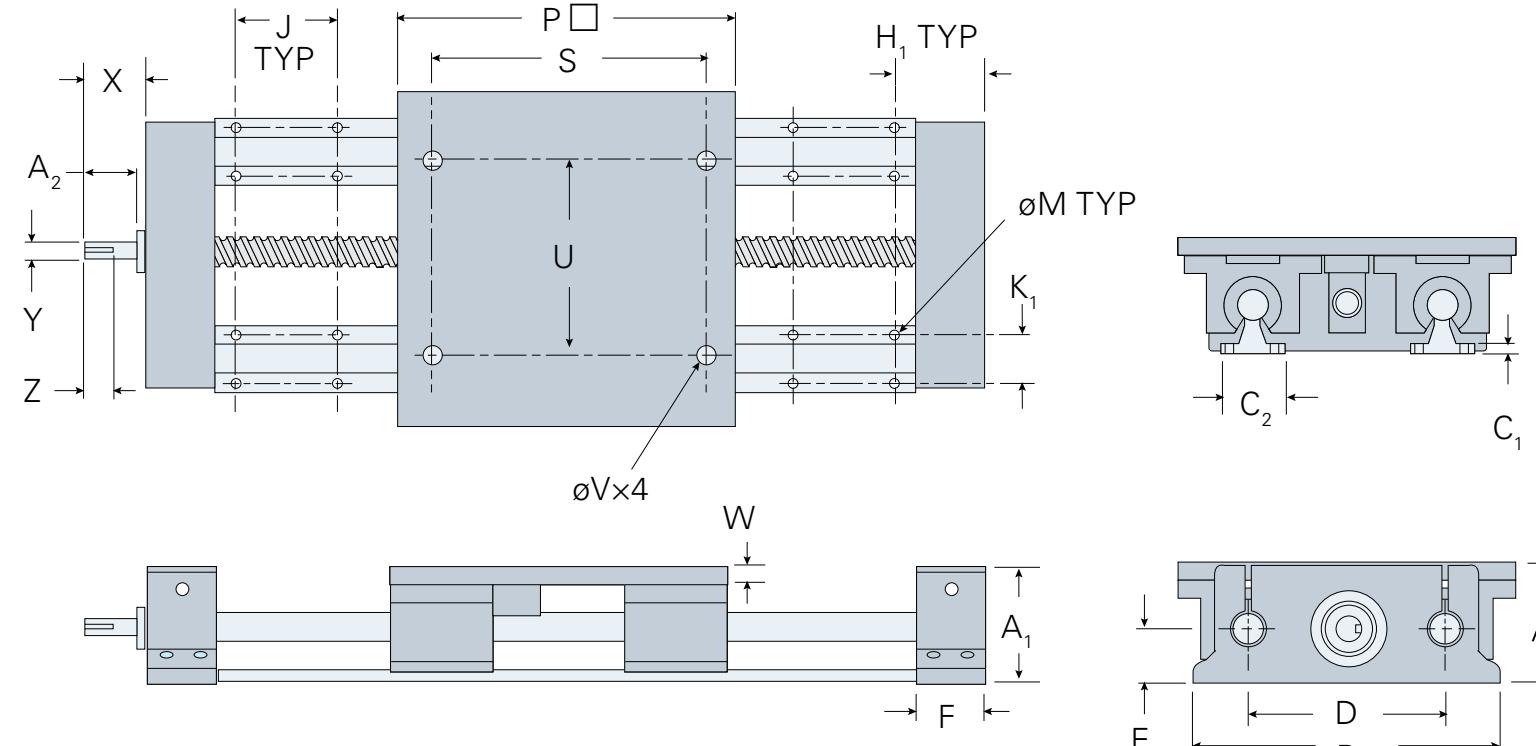
Screw Diameter	H	K ± 0.010	M	M (hole)		
in	mm	in	mm	in	mm	
.50	12.7	.75	19.1	#6	.19	4.8
.75	19.1	1.00	25.4	#10	.22	5.6
1.00	25.4	1.20	30.5	¼	.28	7.1
1.50	38.1	1.50	38.1	⅜	.34	8.6

Pillow Block and Journal Dimensions

Screw Diameter	A ± 0.003	A ₁	A ₂	B	C	D	E	F	X	Y	Z
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
.75	19.1	2.94	74.6	2.88	73.2	1.02	25.9	7.20	182.9	6.00	152.4
1.50	38.1	5.00	127.0	4.97	126.2	1.66	42.1	13.00	330.2	10.75	273.1

252 Series

End-Supported Linear Slide



Carriage Dimensions

Screw Diameter	P	S	U	V	W
in	mm	in	mm	in	mm
.50	12.7	5.5	139.7	4.5	114.3
.75	19.1	7.5	190.5	6.0	152.4
1.00	25.4	9.0	228.6	7.0	177.8
1.50	38.1	13.0	330.2	10.0	254.0
				8.00	203.2
				1.25	31.8
				1.50	38.1
				2.25	57.2
				.50	12.7
				.81 x .14	20.6 x 3.6
				.75	19.1
				1.14 x .188	9.0 x 4.8

Hole Configuration

Screw Diameter	H	J	K ± 0.010	M	M (hole)
in	mm	in	mm	in	mm
.50	12.7	2	50.8	4	101.6
.75	19.1	3	76.2	6	152.4
1.00	25.4	3	76.2	6	152.4
1.50	38.1	4	101.6	8	203.2
				2.25	57.2
				.50	12.7
				.81 x .14	20.6 x 3.6
				.75	19.1
				1.14 x .188	9.0 x 4.8

Pillow Block and Journal Dimensions

Screw Diameter	A ± 0.003	A ₁	A ₂	B	C ₁	C ₂	D	E	F	X	Y	Z													
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in													
.75	19.1	2.937	74.6	2.880	73.2	1.02	25.9	7.200	182.9	.250	6.4	1.750	44.5	4.500	114.3	1.500	38.1	2.00	50.8	1.50	38.1	.50	12.7	.81 x .14	20.6 x 3.6
1.50	38.1	5.000	127.0	4.970	126.2	1.66	42.1	13.000	330.2	.380	9.7	3.000	76.2	8.000	203.2	2.500	63.5	2.80	71.1	2.32	58.9	.75	19.1	1.14 x .188	9.0 x 4.8

