

200 Series Linear Stages

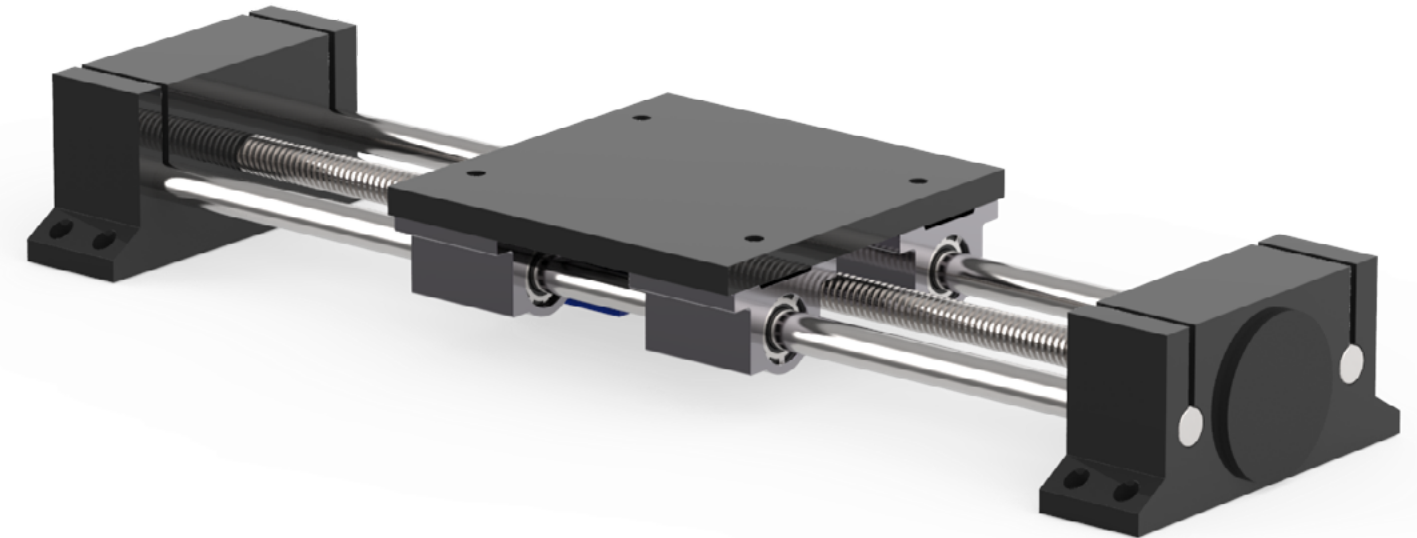


Partners



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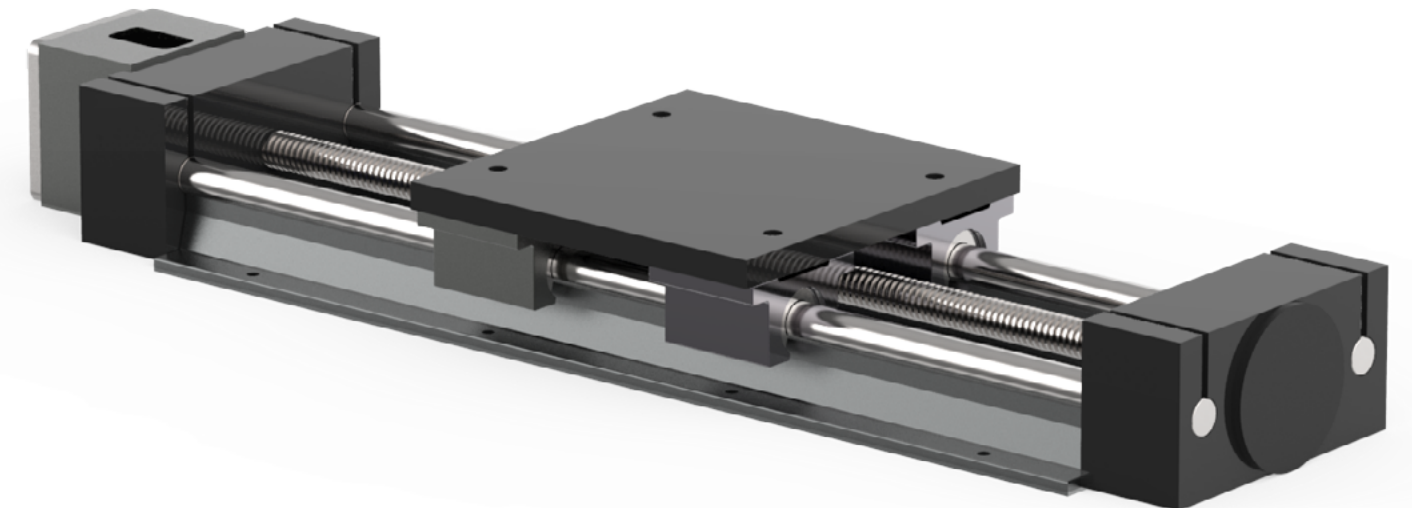
Certifications



ISO 9001:2015 with Design
Certificate No. 14.339.2











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

2 52 - 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

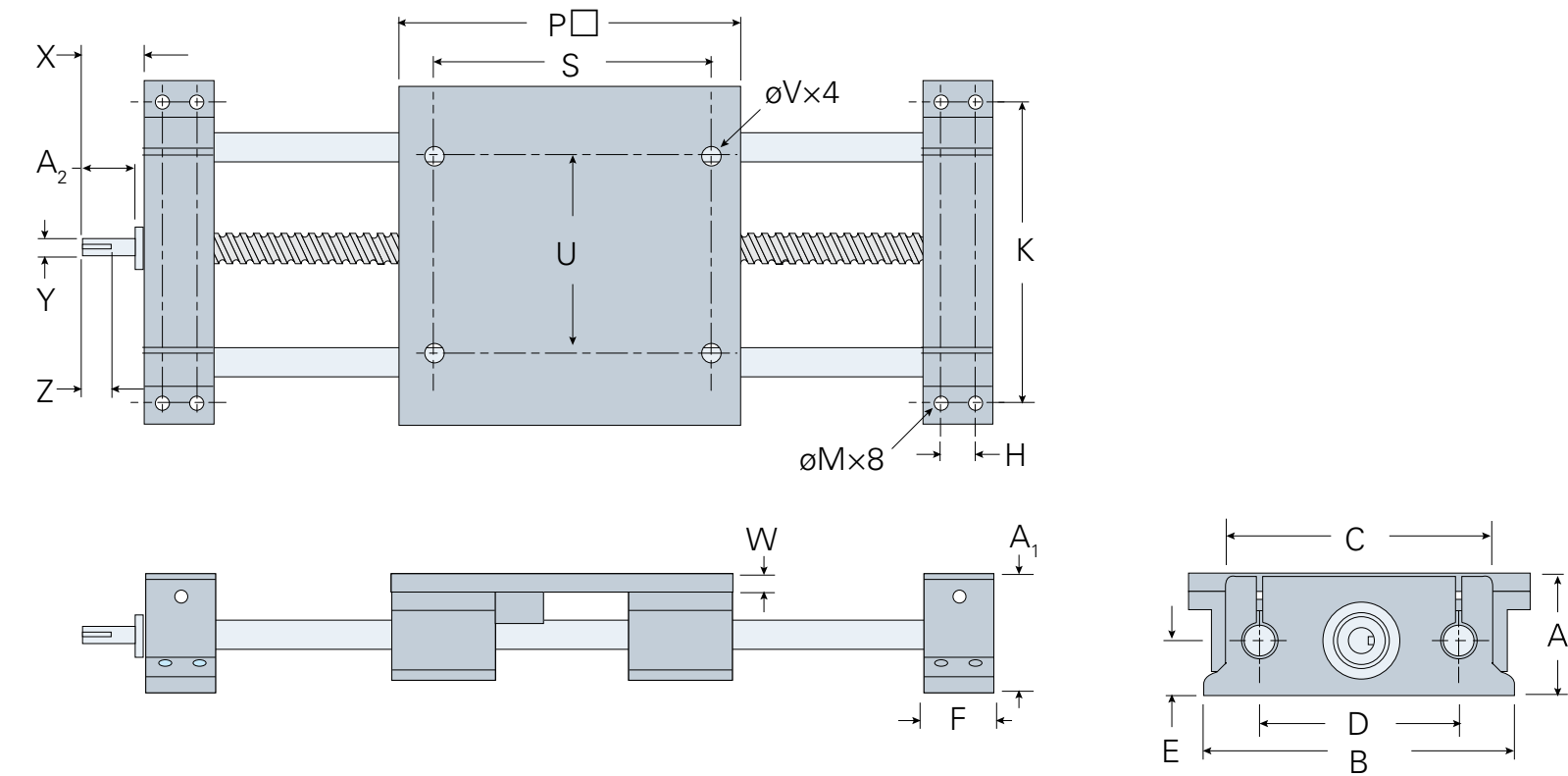
Series 200 Linear Actuators come as a completely assembled system that includes: linear bearing pillow blocks, integrated end supports, HG linear shafts, carriage plate and acme screw assembly. Many configurable options are available for these systems to include various screw styles and leads, protective 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	in	mm	thread	in	mm
.50	12.7	5.50	139.7	4.50	114.3	3.25	82.6	¼-20	.38	9.7
.75	19.1	7.50	190.5	6.00	152.4	4.50	114.3	⅝-18	.50	12.7
1.00	25.4	9.00	228.6	7.00	177.8	5.50	139.7	⅜-16	.50	12.7
1.50	38.1	13.00	330.2	10.00	254.0	8.00	203.2	½-13	.75	19.1

Hole Configuration

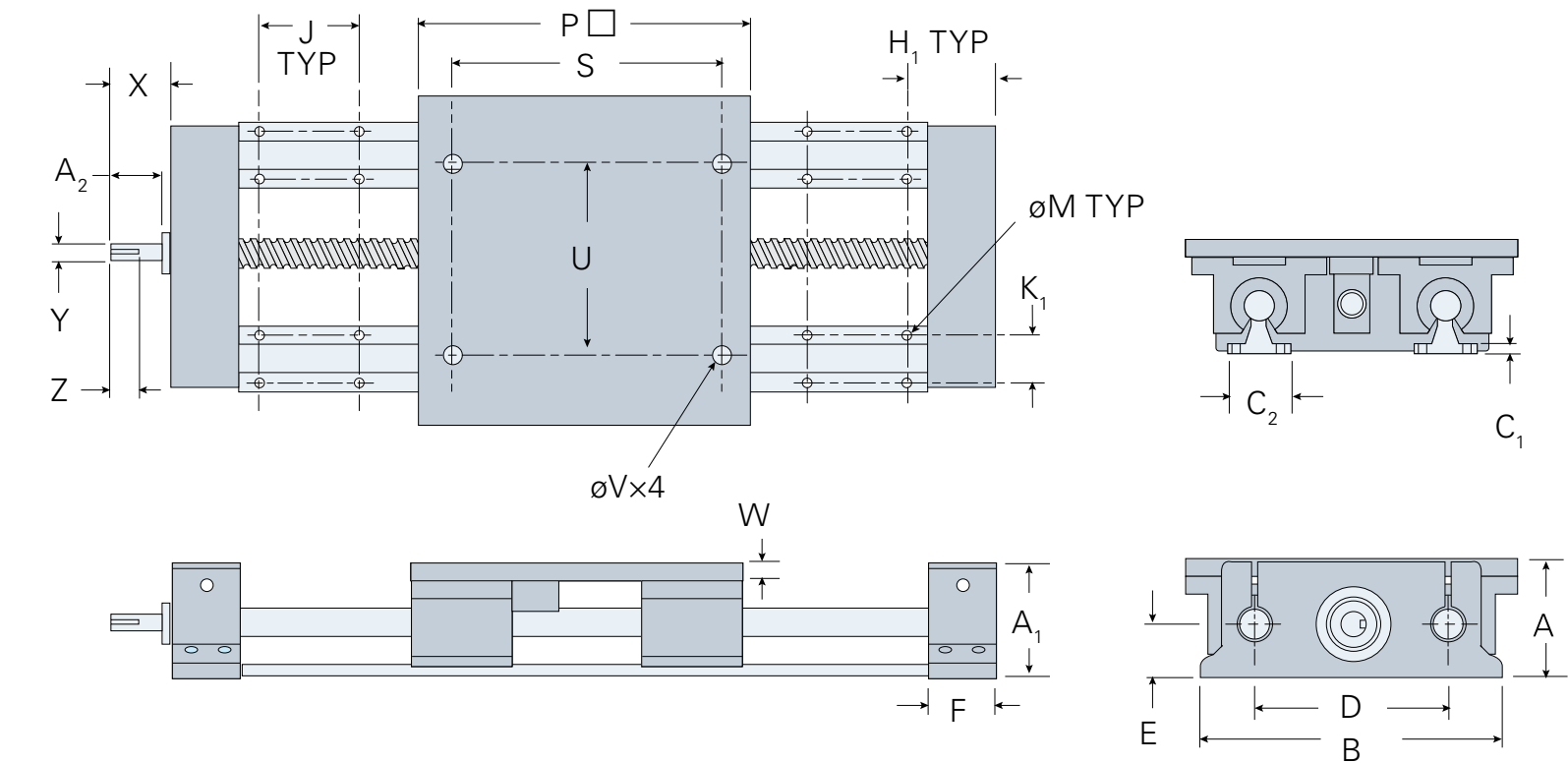
Screw Diameter		H		K +/-0.010		M	M (hole)	
in	mm	in	mm	in	mm	bolt	in	mm
.50	12.7	.75	19.1	4.80	121.9	#6	.19	4.8
.75	19.1	1.00	25.4	6.70	170.2	#10	.22	5.6
1.00	25.4	1.20	30.5	8.00	203.2	¼	.28	7.1
1.50	38.1	1.50	38.1	12.00	304.8	⅜	.34	8.6

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	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	4.50	114.3	1.50	38.1	2.00	50.8	1.50	38.1	.50	12.7	.81 × .14	20.6 × 3.6
1.50	38.1	5.00	127.0	4.97	126.2	1.66	42.1	13.00	330.2	10.75	273.1	8.00	203.2	2.50	63.5	2.80	71.1	2.32	58.9	.75	19.1	1.14 × .188	9.0 × 4.8

252 Series

End-Supported Linear Slide



Carriage Dimensions

Screw Diameter		P		S		U		V	W	
in	mm	in	mm	in	mm	in	mm	thread	in	mm
.50	12.7	5.5	139.7	4.5	114.3	3.25	82.6	¼-20	.38	9.7
.75	19.1	7.5	190.5	6.0	152.4	4.50	114.3	⅝-18	.50	12.7
1.00	25.4	9.0	228.6	7.0	177.8	5.50	139.7	⅜-16	.50	12.7
1.50	38.1	13.0	330.2	10.0	254.0	8.00	203.2	½-13	.75	19.1

Hole Configuration

Screw Diameter		H		J		K +/-0.010		M	M (hole)	
in	mm	in	mm	in	mm	in	mm	bolt	in	mm
.50	12.7	2	50.8	4	101.6	1.00	25.4	#6	.19	4.8
.75	19.1	3	76.2	6	152.4	1.25	31.8	#10	.22	5.6
1.00	25.4	3	76.2	6	152.4	1.50	38.1	¼	.28	7.1
1.50	38.1	4	101.6	8	203.2	2.25	57.2	⅜	.34	8.6

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	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
.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 × .14	20.6 × 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 × .188	9.0 × 4.8