

“Lab Series” Balance of Speed, Load and Size

"Lab series" have 35 mm and 65 mm two families piezo motor stages. All equipped with optical encoder for close loop control. They are easily stackable to build various multi-axes combination.

35 mm

- RS35.Lab, Rotary ➡

- GS35-35.Lab, Goniometer ➡

- GS35-55.Lab, Goniometer ➡

- LS35z.Lab, Elevation ➡

- LS35x.Lab, Linear ➡

- LS35x.Lab, Linear ➡



Room Temperature Piezo Stage • Lab series

	Linear Motion Unit	
	X/Y	Z
35 mm	 LS35x.Lab series	 LS35z.Lab series
65 mm	 LS65x.Lab series	 LS65z.Lab series
80mm		 LS80z.Lab series
105mm	 LS105x.Lab series	
	.NM Non-magnetic, .HV, High Vacuum Version, .UHV, Ultra High Vacuum Version	

“Lab Series”

Balance of Speed, Load and Size

Environment ➡

Standard

Atmosphere

	Size ⌵	Motion Direction ⌵	Product Code ⌵	
Standard 2 nm Optical Sensor	35 × 35 mm	X	LS35x.Lab	✓
		Z	LS35z.Lab	✓
		Rz	RS35.Lab	✓
		Tx	GS35-35.Lab	✓
		Ty	GS35-55.Lab	✓
	65 × 65 mm	X	LS65x.Lab	✓
		Z	LS65z.Lab	✓
		Rz	RS65.Lab	✓
		Tx	GS65-77.Lab	✓
		Ty	GS65-97.Lab	✓
Cost Effective 50 nm Optical Sensor	35 × 35 mm	X	LS35x.Lab.E	✓
		Rz	RS35.Lab.E	✓
	65 × 65 mm	X	LS65x.Lab.E	✓
		Rz	RS65.Lab.E	✓
Advanced 0.5 nm Optical Sensor	35 × 35 mm	X	LS35x.Lab.adv	✓
		Z	LS35z.Lab.adv	✓
	65 × 65 mm	X	LS65x.Lab.adv	✓
		Z	LS65z.Lab.adv	✓

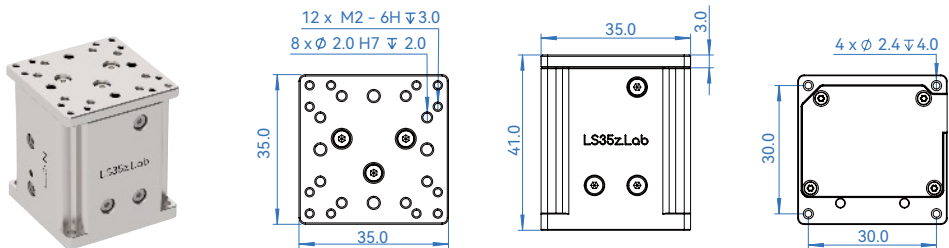


“Lab series” Elevation Stage — LS35z.Lab

Balance of Speed, Travel Range and Resolution, Quiet Motion

- ➔ Feature

 - Quiet Motion
 - Self-lock
- ➔ Photo & Drawing
- Optical Sensor Inside
 - Stackable with other Lab series stage
- Nanometer Resolution



➔ Specification

		LS35z.Lab
1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;
2	Footprint x Height	35 × 35 × 41 mm
3	Material	Standard .HV, .UHV Stainless Steel; .NM, Ti
4	Mass	200 g
5	Travel Range	10 mm
6	Driving Frequency	Max. 20 kHz
7	Cable & Connector	Standard/HV, shield cable and D-Sub15 plug; UHV, Kapton, PEEK D-Sub15
8	Max. Velocity	~ 10 mm/s*(Reduce to 10% in Vacuum)
9	Minimum Incremental Motion(Close-loop)	10 nm (.adv 5 nm)
10	Unidirection Repeatability	±150nm
11	Max. Payload	500 g
12	Pitch/Yaw	0.3 mrad
13	Sensor Type	Optical Sensor
14	Sensor Resolution	Standard 2 nm; .adv 0.5 nm;
15	Controller	MC-Newton.S series

For detail drawing and 3D model please contact us.