

65 mm

- RS65.Lab, Rotary ➡
- GS65-77.Lab, Goniometer ➡
- GS65-97.Lab, Goniometer ➡
- LS65z.Lab, Elevation ➡
- LS65x.Lab, Linear ➡
- LS65x.Lab, Linear ➡



Room Temperature Piezo Stage • Lab series

Piezo Motion • RT

5

	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	✓



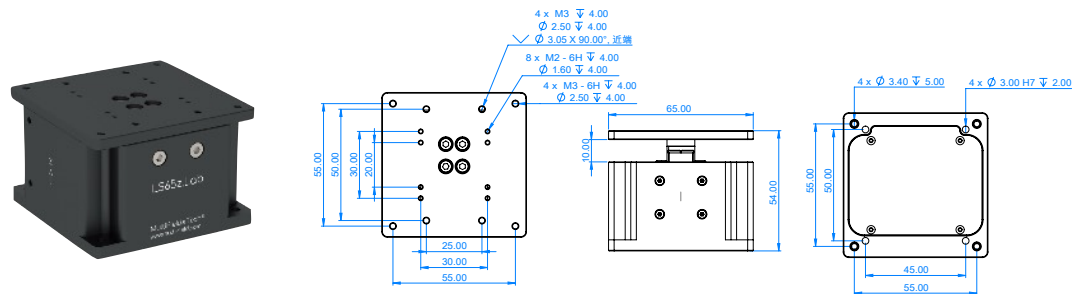
“Lab series” Elevation Stage — LS65z.Lab

Balance of Speed, Travel Range and Resolution, Quiet Motion

➡ Feature

- UHV, Non-magnetic
- Nanometer resolution
- Millions cycle life time

➡ Photo & Drawing



➡ Specification

LS65z.Lab

1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;
2	Footprint × Height	65 × 65 × 44 mm
3	Material	Standard, .NM Aluminum; .HV .UHV Ti
4	Mass	430 g
5	Travel Range	10 mm (20 mm optional)
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	±150 nm
11	Max. Push Payload	500 g
12	Pitch/Yaw	0.3 mrad
13	Sensor Type	Optical Sensor
14	Sensor Resolution	Default 2 nm; .adv 0.5 nm;
15	Controller	MC-Newton.S series

* For detail drawing and 3D model please contact us.