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

	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

	Size	Motion Direction	Product Code	Environment ➟ Standard Atmosphere
• 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**	✓

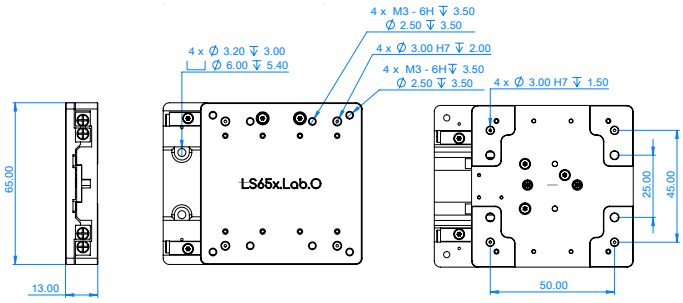
“Lab series” Linear Stage — LS65x.Lab

Balance of Speed, Travel Range and Resolution, Quiet Motion

➡ Feature

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

➡ Photo & Drawing



➡ Specification		LS65x.Lab	LS65x.Lab.E
1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;	/
2	Footprint × Height	65 × 65 × 13 mm	
3	Material	Standard, .NM Aluminum; .HV .UHV Ti	Aluminum
4	Mass	160 g	
5	Travel Range	30 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	~ 20 mm/s*(Reduce to 10% in Vacuum)	
9	Minimum Incremental Motion(Close-loop)	10 nm (.adv 5 nm)	100 nm
10	Unidirection Repeatability	±100 nm	±300 nm
11	Max. Push Force	2 N (4N optional)	2 N
12	Holding Force	5 N	
13	Pitch/Yaw	0.3 mrad	
14	Max. Payload (horizontal mounting)	2 kg	
15	Max. Payload (verticall mounting)	100 g (higher force up to 250 g optional)	
16	Sensor Type	Optical Sensor	
17	Sensor Resolution	Default 2 nm; .adv 0.5 nm;	50 nm
18	Controller	MC-Newton.S series	

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