

“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.

- RS35.Lab, Rotary ➡

- GS35-35.Lab, Goniometer ➡

- GS35-55.Lab, Goniometer ➡

- LS35z.Lab, Elevation ➡

- LS35x.Lab, Linear ➡

- LS35x.Lab, Linear ➡

35 mm



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	✓

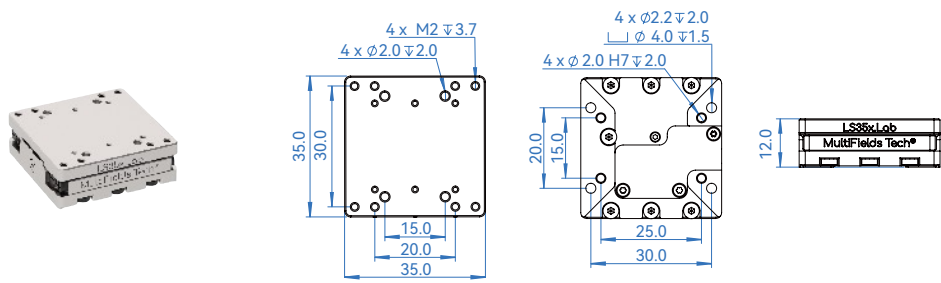


“Lab series” Linear Stage — LS35x.Lab

Balance of Speed, Travel Range and Resolution, Quiet Motion

- ➔ Feature
- Sub nanometer tuning resolution
 - UHV, Non-magnetic
 - Millions cycle life time
- Sub nanometer tuning resolution

➔ Photo & Drawing



➔ Specification		LS35x.Lab	LS35x.Lab.E
1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;	/
2	Footprint × Height	35 × 35 × 12 mm	
3	Material	Standard, .HV, .UHV Stainless Steel; NM, Ti	Stainless Steel
4	Mass	Standard, .HV, .UHV 85 g; NM, 50g	85 g
5	Travel Range	20 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 (High Force version 4N)	2 N
12	Holding Force	5 N	
13	Max. Payload (horizontal mounting)	1kg	
14	Max. Payload (vertical mounting)	100 g (High Force version 250g)	
15	Sensor Type	Optical Sensor	
16	Sensor Resolution	Standard 2 nm; .adv 0.5 nm;	50 nm
17	Controller	MC-Newton.S series	

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