

“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 ➡

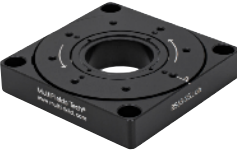
- LS35z.Lab, Elevation ➡

- LS35x.Lab, Linear ➡

- LS35x.Lab, Linear ➡

35 mm



Angular Motion Unit			
Tx	Ty	Tz	
			35 mm
GS35 - 35.Lab series	GS35 - 55.Lab series	RS35.Lab series	
			65 mm
GS65 - 77.Lab series	GS65 - 97.Lab series	RS65.Lab series	
			80 mm
			105 mm
.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	✓

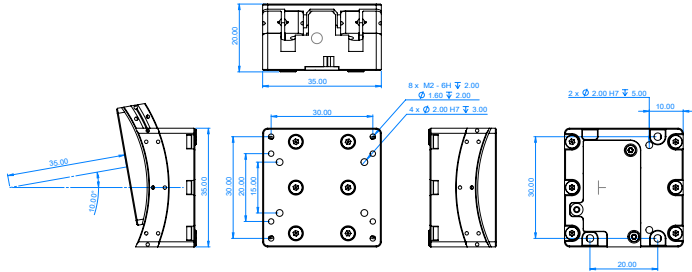
“Lab series” Goniometer Stage — GS35–35.Lab

Balance of Speed, Travel Range and Resolution, Quiet Motion

➔ Feature

- Nanometer Resolution
- Self-lock
- Optical Sensor Inside
- Stackable with other Lab series stage
- Co-pivot Center with GS35–55.Lab

➔ Photo & Drawing



➔ Specification

GS35–35.Lab

1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;
2	Footprint x Height	35 x 35 x 20 mm
3	Material	Standard, .HV, .UHV Stainless Steel; .NM, Ti
4	Mass	250 g
5	Travel Range	±8 °
6	Driving Frequency	Max. 20 kHz
7	Cable & Connector	Standard/HV, shield cable and D-Sub15 plug; UHV, Kapton, PEEK D-Sub15
8	Tilt Radius	35 mm
9	Max. Velocity	~ 3 °/s*(Reduce to 10% in Vacuum)
10	Minimum Incremental Motion (Close-loop)	2 μrad
11	Unidirection Repeatability	±10 μrad
12	Max. Payload (horizontal mounting)	1 kg
13	Holding Force	200 N·mm
14	Driving Torque	70 N·mm
15	Sensor Type	Optical Sensor
16	Sensor Resolution	0.05 μrad
17	Controller	MC-Newton.S series

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