

“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 ➡

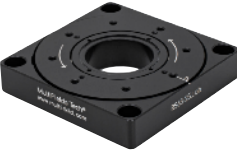


- LS35x.Lab, Linear ➡



- LS35x.Lab, Linear ➡



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

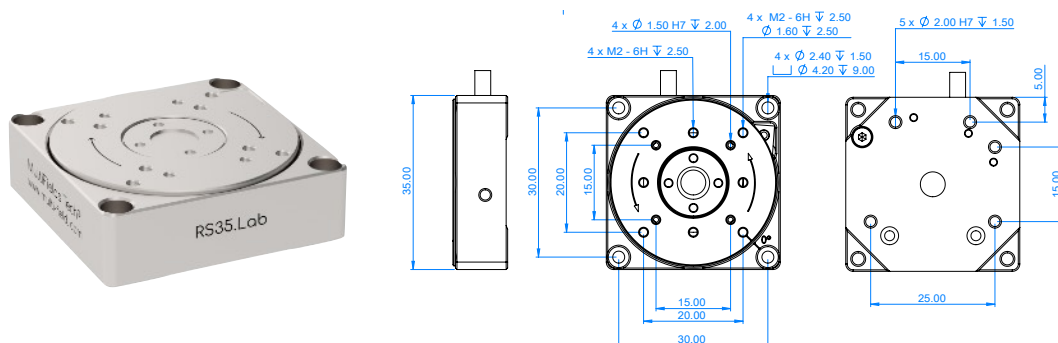
	Size ⌵	Motion Direction ⌵	Product Code ⌵	
Standard 2 nm Optical Sensor	35 × 35 mm	X	LS35x.Lab	✓
		Z	LS35z.Lab	✓
		Rz	RS35.Lab	✓
		Tx	GS35-35.Lab	✓
		Ty	GS35-55.Lab	✓
	65 × 65 mm	X	LS65x.Lab	✓
		Z	LS65z.Lab	✓
		Rz	RS65.Lab	✓
		Tx	GS65-77.Lab	✓
		Ty	GS65-97.Lab	✓
Cost Effective 50 nm Optical Sensor	35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

Balance of Speed, Travel Range and Resolution, Quiet Motion

- Feature
 - Clear Aperture
 - Self-lock
 - Optical Sensor Inside
 - Nanometer Resolution
 - Stackable with other Lab series stage

➤ Photo & Drawing



➤ Specification		RS35.Lab	RS35.Lab.E
1	Optional	.HV, High Vacuum Version; .UHV, Ultra High Vacuum Version; .NM, Non-magnetic Version;	/
2	Footprint x Height	35 x 35 x 11 mm	
3	Material	Standard, .HV, .UHV, Stainless Steel; NM, Ti	Stainless Steel
4	Mass	90 g	
5	Travel Range	360 °	
6	Driving Frequency	Max. 20 kHz	
7	Cable & Connector	Standard/HV, shield cable and D-Sub15 plug; UHV, Kapton, PEEK D-Sub15	
8	Aperture	5 mm	
9	Max. Velocity	~ 15 °/s*(Reduce to 10% in Vacuum)	
10	Minimum Incremental Motion (Close-loop)	3 μrad	10 μrad
11	Unidirection Repeatability	±7.5 μrad	±25 μrad
12	Max. Payload (horizontal mounting)	500 g	
13	Holding Force	50 N·mm	
14	Driving Torque	20 N·mm	
15	Rotary Diameter	33.5 mm	
16	Sensor Type	Optical Sensor	
17	Sensor Resolution	0.2 μrad	3 μrad
18	Controller	MC-Newton.S series	

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