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Find the *Newport RS40* at our website: ***Click HERE***

RS Low-Profile Rotation Stages

The RS Low-Profile rotation stages offer smooth rotation for mounted components or 1-inch optics (1/2-inch with optional PRA-05) comparable to the 481 series, with a minimally reduced sensitivity while offering a slim profile for use in compact systems of all kinds.

- Precision rotation with 12 arc min position readout
- 2° graduations with vernier scale
- Lockable rotation to reduce drift
- Rotates 1 in. or 0.5 in. polarizers and wave plates
- Post mountable for vertical rotation

See All Features



	M-RS40 Platform Rotation Stage, 40 mm Diameter, 10° Fine, BM11.5 Included, M3 and M6
	M-RS65 Aperture Platform Rotation Stage, 65 mm, 10° Fine, M3 and M6
	RS40 Platform Rotation Stage, 1.57 in. Diameter, 10° Fine, BM11.5 Included, 6-32 and 1/4-20
	RS65 Aperture Platform Rotation Stage, 2.65 in. Diameter, 10° Fine, 6-32 and 1/4-20

Notes:

RS40 stages include a BM11.5 micrometer. The actuator is not included with RS65 stages. Please see specifications for recommended actuators.

Specifications

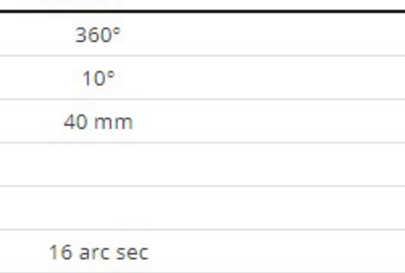


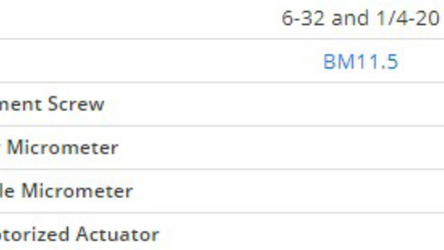
Models	RS40	RS65	M-RS40	M-RS65
Coarse Travel	360°	360°	360°	360°
Fine Travel	10°	10°	10°	10°
Diameter	40 mm	65 mm	40 mm	65 mm
Optic Diameter		25.4 mm		25.4 mm
Clear Aperture		19.05 mm		19.05 mm
Sensitivity	16 arc sec	11 arc sec	16 arc sec	11 arc sec
Graduations	2°	2°	2°	2°
Vernier	0.2°	0.2°	0.2°	0.2°
Load Capacity	50 N	98 N	50 N	98 N
Thread Type	6-32 and 1/4-20	6-32 and 1/4-20	M3 and M6	M3 and M6
Included Actuators	BM11.5	Actuator not included	BM11.5	Actuator not included
Recommended Adjustment Screw		AJS100-0.5		AJS100-0.5
Recommended Vernier Micrometer		SM-13		SM-13
Recommended Lockable Micrometer		DM-13L		DM-13L
Recommended TRA Motorized Actuator		TRA12CC or TRA12PPD		TRA12CC or TRA12PPD
Recommended TRB Motorized Actuator		TRB12CC or TRB12PP		TRB12CC or TRB12PP

Features

Fine Rotation in a Low Profile

The RS Low-Profile series offers 10° fine adjustments, with ~2.5x smaller profile height than the 481 series. Translations on the precision bored bearing locks in place with a thumbscrew on the side, similar to the 481 stages. Rotation is tangentially driven with either a micrometer, or sold without and actuator for implementation of either a fine adjustment screw, differential micrometer, or motorized actuator. Scale markings every 2° lie on the perimeter of the stage.





Threaded Aperture Holds Optics Securely

RS Series stages come either with tapped center hole or threaded aperture and retaining rings. The center tapped hole allows on-axis mounting. The aperture allows secure mounting either of 1-inch optical elements such as waveplates and polarizers, or beam-splitting cubes.

Flexible Mounting Holes

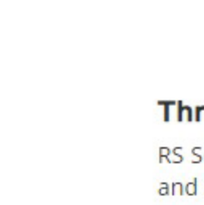
The mounting hole pattern for Model RS40 is compatible with other 40 mm size components, while the RS65 is compatible with optical tables when using optional slotted base plates. A tapped hole is provided on the side for mounting these rotation stages vertically on a post. The RS65 also includes a solid aperture insert with a centered clearance hole for on-axis mounting of components such as post holders.

Related Products

RSP Standard Performance Rotation Stages



Tip-Tilt Polarizer Rotation Mounts



Polarizer Rotation Mount

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