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Find the *Newport 45* at our website: ***Click HERE***

Newport Heavy Duty 1.5 Inch Optical Support Rods

These heavy-duty optical posts are made of 1.5 in. diameter steel tubing to support mounted components with the highest rigidity, while mounting to bases and optical tables with pedestal clamps for the most versatile and accommodating positioning. Specially constructed versions are available for vibration dampening and higher frequency resonances for high sensitivity measurements.

- 1.5 in. diameter steel posts for optimal rigidity
- Vibration damping versions with 5X faster vibrational decay times
- Matte finish reduces surface reflections for safe optical systems
- Ideal for mounting heavy components
- Available with gear rack to assist in vertical positioning

See All Features



Compare	Model	Drawings, CAD & Specs	Availability	Price
(/p/40)	**40 (/p/40)** Optical Support Rod, 14 in., 1.5 in. Diameter, 1/4-20		In Stock	$115
(/p/41)	**41 (/p/41)** Optical Support Rod, 7 in., 1.5 in. Diameter, 1/4-20		In Stock	$105
(/p/42)	**42 (/p/42)** Optical Support Rod, 24 in., 1.5 in. Diameter		In Stock	$316
(/p/45)	**45 (/p/45)** Damped Optical Support Rod, 14 in., Mounting Base, 0.29 in. CLR Holes		In Stock	$211
(/p/70)	**70 (/p/70)** 14 in. Optical Support Rod, Rack, 1.5 in. Diameter, 1/4-20 Thread		In Stock	$186
(/p/71)	**71 (/p/71)** 7 in. Optical Support Rod, Rack, 1.5 in. Diameter, 1/4-20 Thread		In Stock	$180
(/p/72)	**72 (/p/72)** Optical Support Rod, 24 in., Rack & Mounting Base, 1.5 in. Diameter		In Stock	$368
(/p/75)	**75 (/p/75)** Damped Optical Support Rod, 14 in., Rack & Mounting Base		In Stock	$333
(/p/M-40)	**M-40 (/p/M-40)** Optical Support Rod, 355.6 mm Height, 38.1 mm Diameter, M6		In Stock	$115
(/p/M-41)	**M-41 (/p/M-41)** Optical Support Rod, 177.8 mm Height, 38.1 mm Diameter, M6		In Stock	$105

Features

1.5 inch Diameter Steel Tubing Construction

Newport optical support rods are made of 1.5 in.(38.1 mm) diameter steel tubing, whose material properties allow for greater dynamic rigidity than aluminum designs, as well as thermal stability. The hollow-core construction provides even the standard (undamped) support rods with lower vibration amplitudes and higher resonant frequencies often preferred for sensitive optical systems. The inherently greater stiffness and strength of these steel rods provides its support for larger and heavier optical components.



Damped Rods

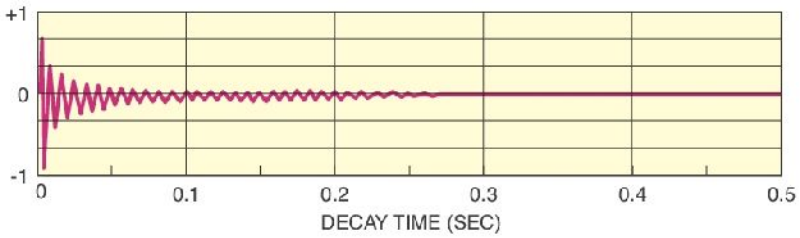


Fig. 1: Time response of a Newport Model 45 Damped Rod supporting a 2.5 lb (1.1 kg) load.

Model 45 and 75 Damped Optical Support Rods are a sophisticated upgrade to the standard supports available in this series, designed for measurements sensitive to acoustic or similar vibrational forces. These rods feature cylindrical masses constrained by damping layers in the upper portions of the rod, located for the most effective dissipation of vibrational energy based on precise computer modeling and testing. Newport's patented internal damping system provides the utmost vibrational immunity from the environment. Compared to the best alternative designs, Newport damped optical support rods exhibit 60% higher

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resonant frequency, 5X faster vibration decay and 160% better peak compliance. Both models are 14 in. (356 mm) in length and mount to tables and breadboards securely with four bolts. Model 75 has a nylon gear rack for rack-and-pinion control of mounted elements' elevation. The time-domain responses shown in the figure compare these rods with model 40, the standard steel rod in this family, with the same load at 240 Hz, corresponding to the first bending mode of a cantilevered beam.

Accessories

Rod Wrenches

These convenient rod drivers allow you to easily tighten or loosen standard optical support rods like models 40, 41, 70, and 71 to an optical table surface.

Compare	Description	Drawings, CAD & Specs	Avail.	Price
(/p/14828-01)	**14828-01 (/p/14828-01)** Rod Wrench, For Mounting Standard Rod Models 40, 41, 70, and 71		In Stock	$23
(/p/16636-01)	**16636-01 (/p/16636-01)** Rod Wrench, Metric, For Mounting Standard Rod Models 40, 41, 70, & 71		2 Weeks	$23

Convenient Table Mounting

All optical support rods attach easily to tables either with an integral tie-down bolt or a steel ring base. We offer a wide selection of precision
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Precision Design

The optical support rods are made round to < 1/1000 of an in. (12 µm) for precise, reproducible mating of rod-mounted components. The matte finish
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Related Products



(/f/1.5-in.-magnetic-base-optical-pedestal-pillars)



(/f/quick-disconnect-optical-rod-clamps)



(/f/optical-support-rod-platforms)



(/f/rod-mount-kinematic-optical-mounts)



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