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Optical Post, Gear Rack, 177.8 mm Height, 38.1 Diameter, M6 Thread



The M-71 Metric Short Rod has suitable sturdiness for most general laboratory applications. Made of steel, it has a 38.1 mm diameter and is 177.8 mm tall with a nylon gear rack set into the rod for rack-and-pinion control over component elevation. Steel provides much greater dynamic rigidity than aluminum due to its almost order-of-magnitude greater material loss factor. This means this rod has a high resonant frequency and correspondingly low vibration amplitude required for optical laboratory use. Also, with its inherently greater stiffness and strength, it supports larger loads with greater stability. Steel construction has other advantages such as half the thermal expansion coefficient of aluminum and a higher heat capacity so thermal stability is enhanced. M6 thread.

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 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 of the rods provides a low-reflectivity surface that is resistant to gouging, scratching and corrosion. 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.

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 components including clamps, platforms and optics holders that mount interchangeably on the rods for complete component mounting flexibility.

Accessories for a Variety of Applications



Newport has designed several accessories that securely mount onto 1.5 in. rods to support and enhance a variety of applications. Optical support platforms are available to provide stable mounting surfaces for optical components at any orientation, angle and height on the post. Our Quick Disconnect Optical Rod Clamps allow components to be detached and attached quickly and easily, which is beneficial when changing or experimenting with different setups. The 625-RC Kinematic Mirror Mounts enable precise beam positioning for 2, 4, and 6 in. diameter mirrors, with either 100-TPI adjustment screws or micrometers for an orthogonal 10° angular adjustment range.

SHOW LESS

Specifications

Type	Optical Support Post
Height	177.8 mm
Thread Type	M6
Material	Steel
Diameter	38.1 mm
Diameter Tolerance	0.0005 in.
Damped	No
Gear Rack	Yes

Resources & Downloads

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