

VACUUM COMPATIBLE OPTICAL MOUNTS

Suitable for Torr 10^{-6} vacuum

4SCML-8V



Vacuum Compatible Self-Centering Optics Mount

4SCMLV-8-001 reliably centers and securely holds round optics and cylindrical objects. It is valuable when lenses of different diameters are being used interchangeably, as repeated centering at constant height is necessary. The Self-Centering Optics Mount accommodates optics up to 8 inch (203.2mm) and is oversized to provide easy finger access for inserting and remaining optics.

Specifications

Optics diameter range	1-8 inch (25.4 - 203.2 mm)
Material	stainless steel, aluminium

5BM59TV-1



Optical Mount For Vacuum

5BM59T-1V mount accepts optics 25.4 mm in diameter. Optics is stopped by a rest-flange inside the central aperture of the platform, and is secured by a steel hex fixing screw. The fixing screw has a hard plastic tip to prevent damage to the optics. To allow an unimpeded access for your fingers there are two pick-hollows. Side control of tilt and tip is done by two stainless steel fine adjustment screws with pitch of 0.25mm.

Specifications

Tilt/tip range	$\pm 2^\circ$
Sensitivity	3 arcsec
Optics accepted	
Diameter	$\leq \varnothing 25.4$ mm
Clear aperture	23 mm
Weight	0.1 kg

5KOM4V-1



Vacuum compatible Five-Axis Optical Mounts

Five-Axis Optical Mounts consist of side regulation two-axis kinematic mirror mount with two screws, two-axis translation stage with 2mm travel range driven by two screws and zoom which provides 10mm travel range. Five-Axis Optical Mounts hold 1-inch optics. In addition, the adapters may be purchased to mount optics of different diameters. The mounts have M6 holes on the bottom to accommodate different mounting systems directly or through thread adapters.

Specifications

Fine screw thread	M6x0.25
Optics diameter	$\varnothing 25.4$ mm
Tilt/tip range	$\pm 2^\circ$
Sensitivity	3arcsec
XY translation range	± 2 mm
Sensitivity	
for XY translation	1 μ m
for Z translation	1 μ m
Z translation range	10mm
Weight	0.28 kg

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5KVDOMV



Vacuum Compatible Optical Mounts

5VDOMV is designed to minimize mount-induced wavefront distortions. Radial forces acting on the mirror induces parasitic wavefront distortion, such as astigmatism. Mirror mounts use secure 3-points mirror suspension in between frontal flat spring and the back plate. Uniformly distributed axial forces eliminate wavefront distortion.

Features

- Stainless steel
- Annealed front panel of 1", 2" and 3" models
- Compact/robust design
- Super stable
- Lockable adjustment screws
- Motorized version

5LAOMV



Vacuum Compatible Gimbal Optical Mount

5LAOMV has been designed for high precision positioning of large optical elements up to 600mm in vacuum environment. Commonly LAOM optical mount is extremely efficient solution in applications such as: high power laser systems and astronomy.

LAOM series optical mounts have complete 360 degree rotation in azimuth and elevation axes if transmission of both coordinates is decoupled. Age hardened aluminum alloy and special ultrasound cleaning guarantees low outgassing, softness of assembly, high thermal stability and high vibration stability.

Specifications

Azimuth/Elevation	360°/360°
(coarse)	
(fine)	±4°/±4°
Resolution	3 arcsec
Sensitivity	1 arcsec
Repeatability	
Bidirectional/Unidirectional	3 arcsec
Backlash	0
Horizontal load capacity	150 kg
Lead Screw Pitch	1 mm
Base material Aluminum/	
Stainless steel	
Environment pressure	10^{-8} torr
Max optic diameter	Ø600 mm
Min optic diameter	Ø500 mm
Max optic thickness	100 mm

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