

VACUUM COMPATIBLE MOTORIZED OPTICAL MOUNTS

Suitable for Torr 10^{-6} vacuum

8MKVDOMV-1
8MKVDOMV-2
8MKVDOMV-3

1" Vacuum Compatible Motorized Vertical Drive
2" Optical Mounts with DC motor
3"



Vacuum Compatible Motorized Vertical Drive Optical Mounts with DC motor are designed to minimize mount-induced wavefront distortions. In conventional mounts, a side screw tightens the mirror. Radial forces acting on the mirror induces parasitic wavefront distortion, such as astigmatism.

8MKVDOMV mirror mounts use secure 3-points mirror suspension in between frontal flat spring and the back plate. Uniformly distributed axial forces eliminate wavefront distortion. Due thermal processes on optic holding part, all metal inner tensions were removed and part makes none micro movements.

These mounts are ideal for industrial applications in different optical devices (laser cavities, optical sub-assemblies, limited space applications) because of their long-term stability.

Specifications

Optics diameter	
1"	25,4 mm
2"	50,8 mm
3"	76,2 mm
Clear aperture	
1"	23 mm
2"	48 mm
3"	72 mm
Tilt/tip range	
1", 2"	$\pm 2,5^\circ$
3"	$\pm 2,0^\circ$
Angular Resolution	
<i>by horizontal</i>	
1"	1,5 arcsec.
2", 3"	1 arcsec.
<i>by vertical</i>	
1"	1,75 arcsec.
2", 3"	1,25 arcsec.
<i>in the middle tilt of platform</i>	
Lead screw pitch	0,25 mm
Cable length (included)	1,2 m

S I U T A B L E F O R V A C U U M