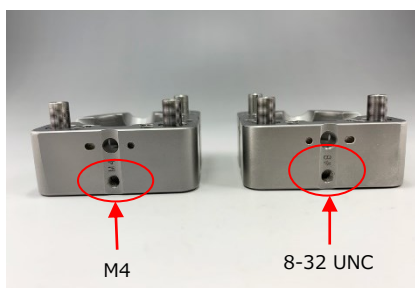
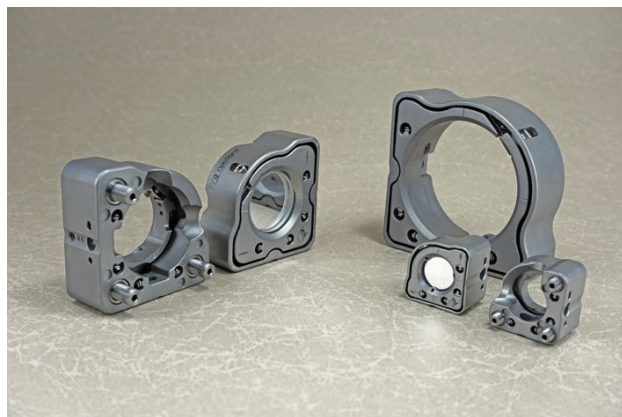


High-Stability Mirror Mount MHX RoHS Catalog Code W4055

Higher moment of inertia to maximize stiffness and faster to reach thermal equilibrium characteristics are achieved by a hollow-frame design. Ideal for interference measurement or precision measurement.

- The mirror can be inserted from the back of the holder and fixed so that the reflecting surface of the mirror stops at the butt of the mirror frame with HX-25.4F-R. This ensures that the reflecting surface of the mirror is always aligned with the mounting center of the rod, even if the thickness of the mirror changes. (For MHX-***F/A, the mirror is inserted from the front of the holder; for MHX-12.7F-R, the mirror is inserted from the back, but the rod cannot be attached.)
- MHX-***F/F-R has three adjustment axes screws that allow the reflecting surface to be moved back and forth in addition to the adjustment of tilt and rotation. (MHX-***A has only 2 axes of adjustment screws, so it can only be used for adjustment of tilt and rotation.)
- Adhesive holes for mirror adhesion and pin holes for anti-rotation and positioning are equipped.
- High-density stainless steel is used for the material, but the weight has been reduced by reducing the thickness.
- The frame design provides a higher moment of inertia to maximize stiffness and reduced-mass sections allowing it to reach thermal equilibrium faster for maximum stability.



Guide

- ▶ Please use a hexagonal wrench to adjust the tilt and rotation. Do not use bare hands to turn the tilt or rotation screws. Hexagonal wrench with knob for MHX-12.7 (KCL-1513) is also available. We also offer a screw-in knob (MHX-K-M6) specifically for MHX-25.4/50.8 instead of a hexagonal wrench.
- ▶ A special lock (MHK-L-M*) is also available to hold the adjusted angle.

Attention

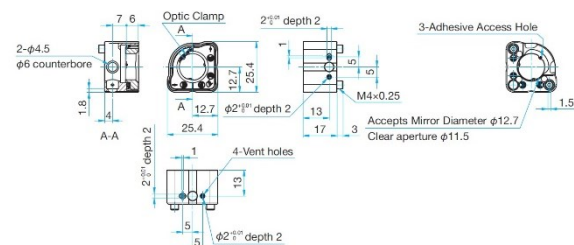
- ▶ MHX-25.4/50.8 cannot be attached to M6 rods (RO). Use M4 or 8-32 UNC rods (ROC, RO-UU) when using a rod. MHX-12.7 is not compatible with tip threads rods. Both MHXs can be secured to post stands (PST) or spacers with M4 or 8-32 UNC threads. (For MHX-12.7, use the supplied small head bolts.)
- ▶ When using a rod, it is not possible to change the beam transmission direction of the mirror holder. Use a post stand (PST) to change the direction.
- ▶ When used with a cross beam (optical system such as a Michelson interferometer), the effective diameter of the beam becomes smaller.

Specifications						Primary material : Stainless steel Finish : None				
Part number	Compatible optics diameter φA [mm]	Compatible optics thickness [mm]	Effective diameter [mm]	Number of adjustment axes	Mounting direction	Adjustment range		Resolution		Weight [kg]
						Tilt [°]	Rotation [°]	Tilt [° /rotation]	Rotation [° /rotation]	
MHX-12.7A	φ12.7	2 - 6	φ11.5	2	Front	±3	±3	Approx. 0.8	Approx. 0.8	0.036
MHX-12.7F	φ12.7	2 - 6	φ11.5	3	Front	±3	±3	Approx. 0.8	Approx. 0.8	0.037
MHX-12.7F-R	φ12.7	2 - 6	φ11.5	3	Back	±3	±3	Approx. 0.8	Approx. 0.8	0.037
MHX-25.4A	φ25.4	3 - 7	φ23	2	Front	±3	±3	Approx. 0.41	Approx. 0.41	0.16
MHX-25.4F	φ25.4	3 - 7	φ23	3	Front	±3	±3	Approx. 0.41	Approx. 0.41	0.17
MHX-25.4F-R	φ25.4	3 - 7	φ23	3	Back	±3	±3	Approx. 0.41	Approx. 0.41	0.17
MHX-50.8A	φ50.8	5 - 13	φ48	2	Front	±3	±3	Approx. 0.26	Approx. 0.26	0.35
MHX-50.8F	φ50.8	5 - 13	φ48	3	Front	±3	±3	Approx. 0.26	Approx. 0.26	0.35

Outline Drawing

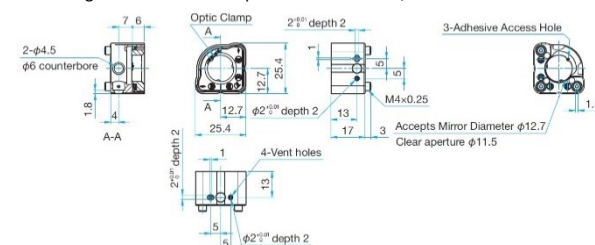
MHX-12.7A

- Hexagonal socket head cap screw M4x6...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/4...1 screw



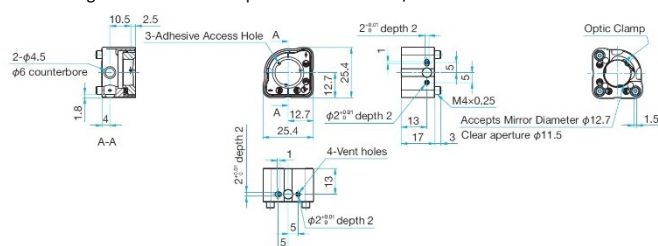
MHX-12.7F

- Hexagonal socket head cap screw M4x6...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/4...1 screw



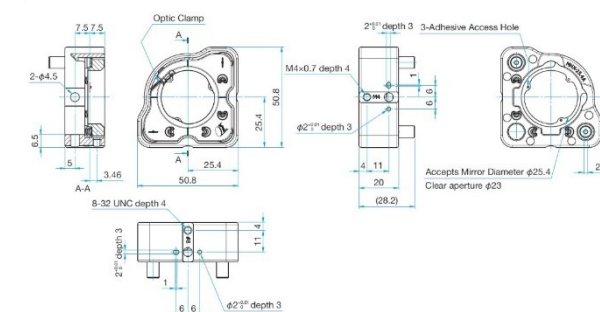
MHX-12.7F-R

- Hexagonal socket head cap screw M4x6...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/4...1 screw



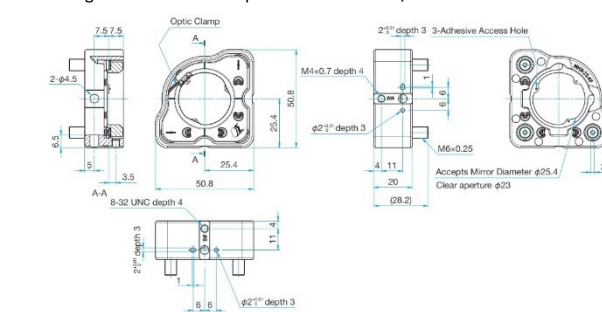
MHX-25.4A

- Hexagonal socket head cap screw M4x12...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/1...1 screw



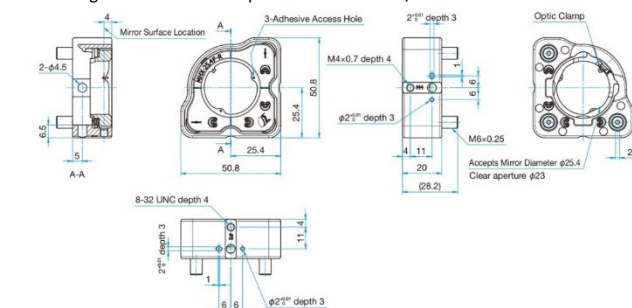
MHX-25.4F

- Hexagonal socket head cap screw M4x12...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/1...1 screw



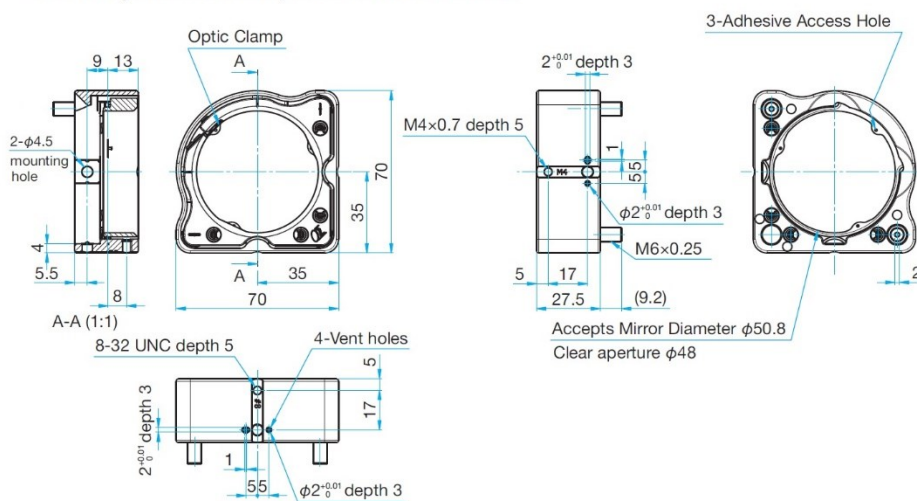
MHX-25.4F-R

- Hexagonal socket head cap screw M4x12...1 screw
- Hexagonal socket head cap screw 8-32UNCx1/1...1 screw



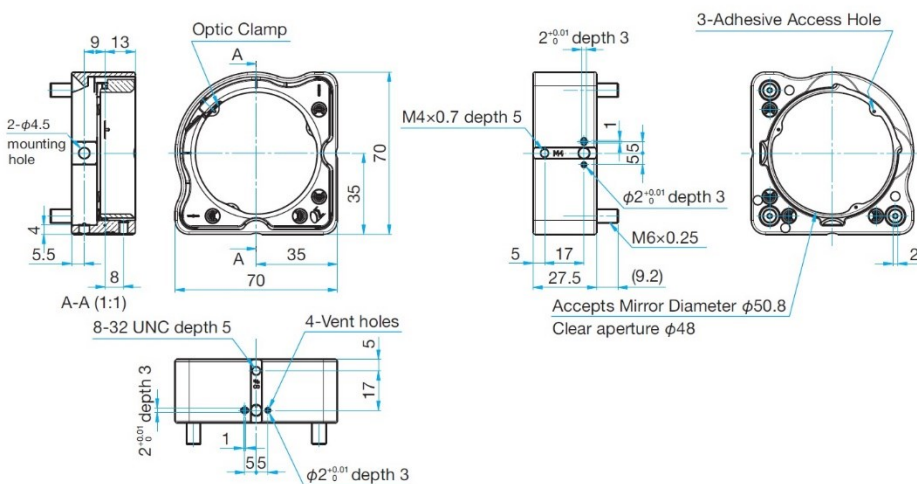
MHX-50.8A

- SUS Hexagonal socket head cap screw M4×10...1screw
- SUS Hexagonal socket head cap screw 8-32UNC×3/8...1screw



MHX-50.8F

- SUS Hexagonal socket head cap screw M4×10...1screw
- SUS Hexagonal socket head cap screw 8-32UNC×3/8...1screw



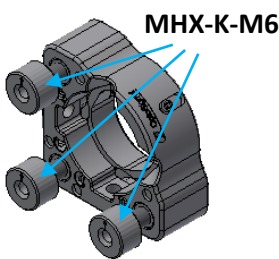
Option



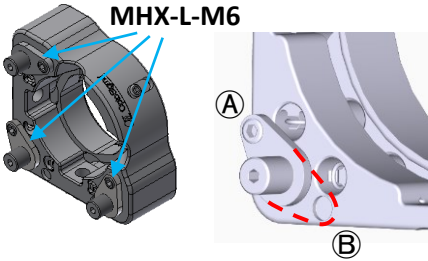
MHX-K-M6



MHX-L-M6



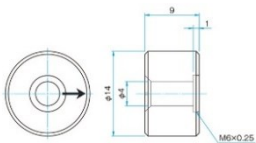
MHX-K-M6



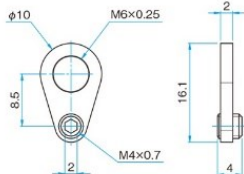
MHX-L-M6

Specifications			Primary material : Stainless steel		
			Finish : None		
Part number	Price [¥]	Product name	Compatible holder	Qty [pcs]	Weight [kg]
MHX-K-M6	1,500	Knob	MHX-25.4	3	0.03
MHX-L-M6	2,800	Lock	MHX-25.4	3	0.006
MHX-L-M6	2,800	Lock	MHX-12.7	3	0.003

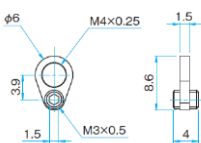
MHX-K-M6



MHX-L-M6



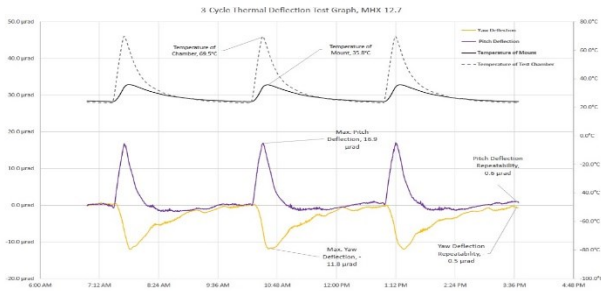
MHX-L-M4



When installing the lock (MHX-L-M6) on the fulcrum shaft of the MHX-50.8F, fix the lock so that the tip of the set screw of the lock enters the upward clevis against the mounting surface(A). If the lock is fixed at the position (B), the MHX-L-M6 may interfere with the mounting surface.

3-cycle thermal deflection test graph

MHX-12.7



MHX-25.4

