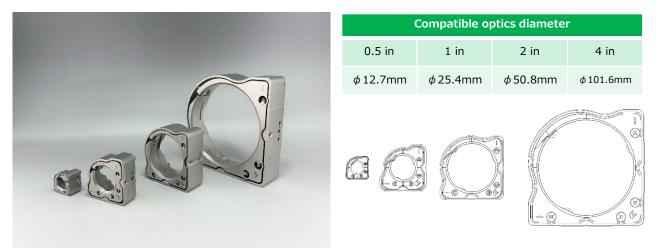
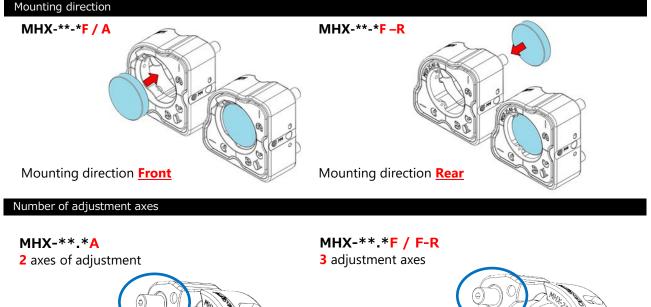
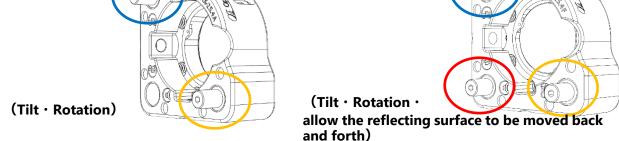
# NEW High-Stability Mirror Mount MHX Rolls

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.



- 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/ 101.6instead of a hexagonal wrench.
- ► A special lock (MHK-L-M\*) is also available to hold the adjusted angle.



#### Attention

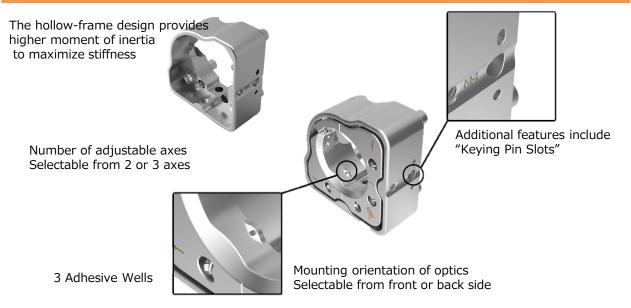
- MHX-12.7 is not compatible with tip threads rods.
- MHX-25.4/50.8 cannot be attached to M6 rods (RO). Use M4 or 8-32 UNC rods (ROC, RO-UU) when using a rod.
   To attach MHX-101.6 to rods, use M6 or 1/4-20UNC rods
- (RO-20, ROU-20).
- Both MHXs can be secured to post stands (PST) or spacers with M4 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.

-	Part	Pedestal	Posts (With tip thread)					
	Number	Bases (PST)	M4	8-32 UNC	M6	1/4- 20UNC		
	MHX-12.7	O With small- head screw (attached)	×	×	×	×		
	MHX-25.4	0	0	0	×	×		
	MHX-50.8	0	0	0	×	×		
	MHX-101.6	0	×	×	0	0		

MHX-25.4/50.8 Series



#### MHX Features at Glance

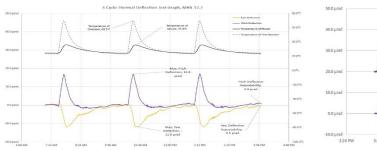


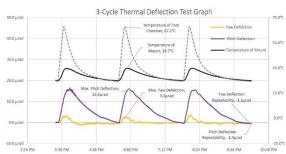


# 3-cycle thermal deflection test graph

# MHX-12.7

MHX-25.4





#### MHX-50.8



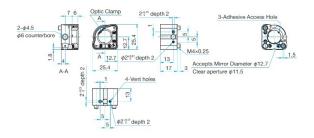


Specificatio	pecifications Primary material: Stainless steel												
F										Finish: None			
		Compatible	Compatible optics thickness [mm]	Effective diameter [mm]	Number of adjustment axes	Mounting	Adjustment range		Resolution				
Part number	Price [JP Yen]	optics diameter φA [mm]					Tilt [°]	Rotation [°]	Tilt [°/rotation]	Rotation [°/rotation]	Weight [kg]		
MHX-12.7A	10,000	φ12.7	2 - 6	φ11.5	2	Front	±3	±3	Approx. 0.8	Approx. 0.8	0.036		
MHX-12.7F	10,500	ф12.7	2 - 6	φ11.5	3	Front	±3	±3	Approx. 0.8	Approx. 0.8	0.037		
MHX-12.7F-R	11,000	φ12.7	2 - 6	φ11.5	3	Back	±3	±3	Approx. 0.8	Approx. 0.8	0.037		
MHX-25.4A	11,900	ф25.4	3 - 7	ф23	2	Front	±3	±3	Approx. 0.41	Approx. 0.41	0.16		
MHX-25.4F	11,900	φ25.4	3 - 7	ф23	3	Front	±3	±3	Approx. 0.41	Approx. 0.41	0.17		
MHX-25.4F-R	11,900	φ25.4	3 - 7	ф23	3	Back	±3	±3	Approx. 0.41	Approx. 0.41	0.17		
MHX-50.8A	18,900	φ50.8	5 - 13	ф48	2	Front	±3	±3	Approx. 0.26	Approx. 0.26	0.35		
MHX-50.8F	20,900	ф50.8	5 - 13	ф48	3	Front	±3	±3	Approx. 0.26	Approx. 0.26	0.35		
MHX-101.6A	94,000	φ101.6	10-20	ф96	2	Front	±2	±2	Approx. 0.13	Approx. 0.13	1.13		
MHX-101.6F	97,000	φ101.6	10 - 20	ф96	3	Front	±2		Approx. 0.13		1.13		

# Outline Drawing (mm)

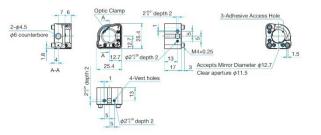
#### MHX-12.7A

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



# MHX-12.7F

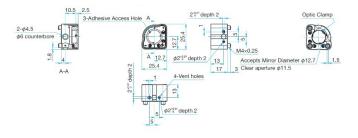
Hexagonal socket head cap screw M4x6...1 screw Hexagonal socket head cap screw 8-32UNCx1/4...1 screw



## MHX-12.7F-R

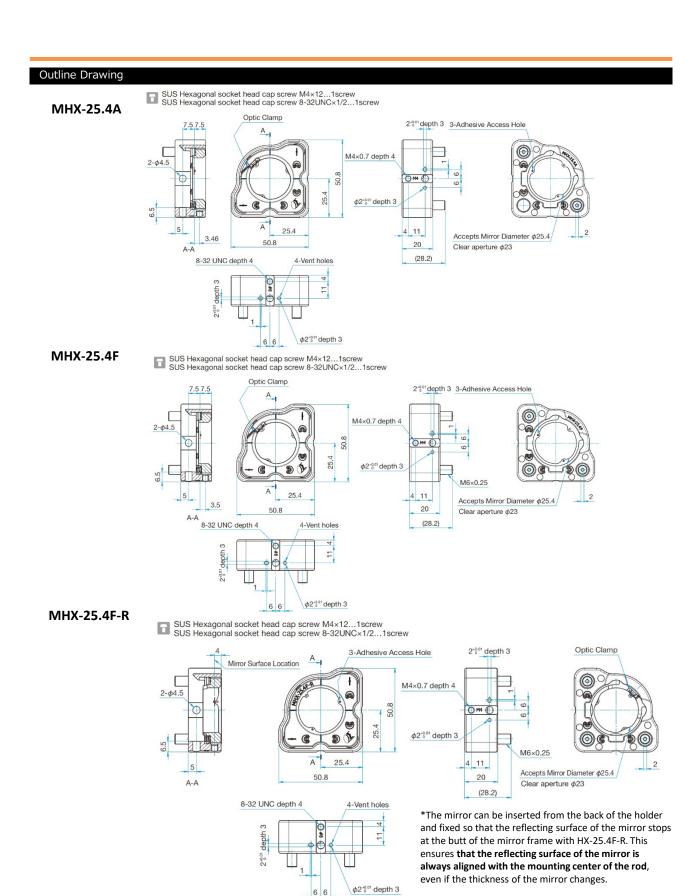
 Hexagonal socket head cap screw
 M4x6...1 screw

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



- The MHX-12.7 series does not have threaded holes in the body, so rods with tip threads cannot be attached.
- Using the accessory small head screw, Pedestal Bases (PST) and spacers can be secured with M4 or 8-32UNC screws.





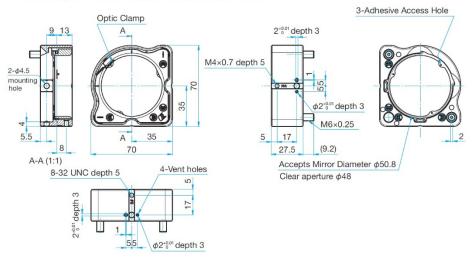
- MHX-25.4 series cannot be attached to M6 rods (RO). Use M4 or 8-32 UNC rods (ROC, RO-UU) when using a rod.
- Both MHXs can be secured to post stands (PST) or spacers with M4 or 8-32 UNC threads.



# **Outline Drawing**

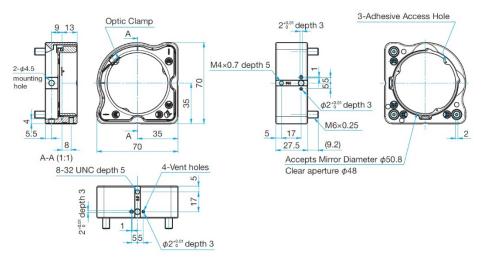
# MHX-50.8A

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



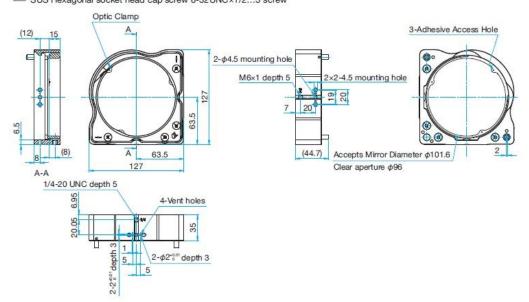
- MHX-50.8 series cannot be attached to M6 rods (RO). Use M4 or 8-32 UNC rods (ROC, RO-UU) when using a rod.
- Both MHXs can be secured to post stands (PST) or spacers with M4 or 8-32 UNC threads.



## Outline Drawing (mm)

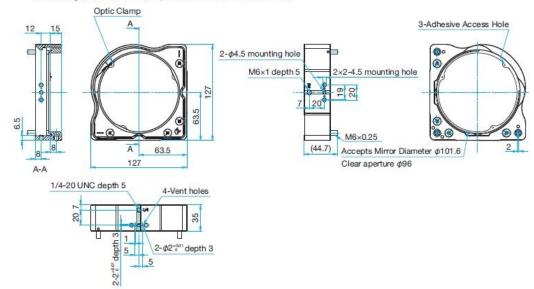
MHX-101.6A

SUS Hexagonal socket head cap screw M4×12...3 screw SUS Hexagonal socket head cap screw 8-32UNC×1/2...3 screw





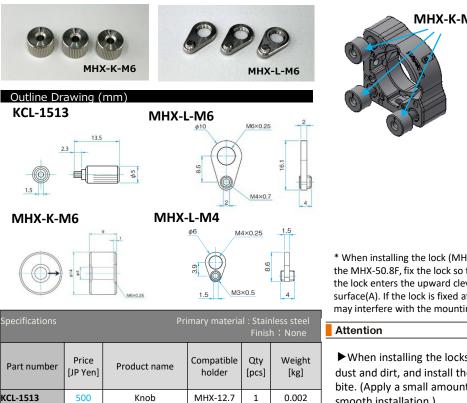
SUS Hexagonal socket head cap screw M4×12...3 screw SUS Hexagonal socket head cap screw 8-32UNC×1/2...3 screw



- To attach MHX-101.6 to rods, use M6 or 1/4-20UNC rods (RO-20, ROU-20).
- Both MHXs can be secured to post stands (PST) or spacers with M4 or 8-32 UNC threads.



# Option



MHX-25.4

MHX-50.8

MHX-101.6

MHX-12.7

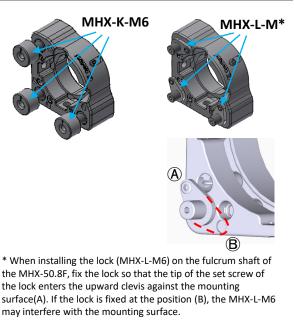
0.03

0.006

0.003

3

3



► When installing the locks, make sure the screws are free of dust and dirt, and install them carefully so that they do not bite. (Apply a small amount of grease to the screws for smooth installation.)

► For delivery with knobs and locks installed, please contact Sales.

#### How to assemble the knob and the lock

1,500

2,800

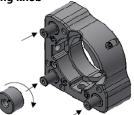
2,800

#### Assembling knob

мнх-к-м6

MHX-L-M6

MHX-L-M4



Knob

Lock

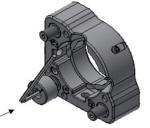
Lock

① Turn the knob to each fine adjustment screw.

# Assembling lock



1 Turn the lock to each fine adjustment screw.



2 Insert a hexagon wrench into the fine adjustment screw and turn the knob while fixing the hexagon wrench to fix it.

#### \* Appropriate mounting depth for the lock.



- O MH (D) Approx. Imm
- 2 Turn the holo set into one of the two hollows.
- ③ The fine adjustment screw is locked by turning the holo set.
- \* Appropriate mounting depth for the lock.

