# Micro Lens Claws | MLH

**Holders for micro lenses of φ3mm or less.**
**Designed to hold small optics at the end of a long and thin arm to allow other optical elements to be placed close to the element being held. Typical uses include collimator lenses for fiber or laser diodes.**

- A light spring force holds the optic securely in place.
- Optics can be mounted easily and securely by clamping an optic in the groove at the end of the arm.
- The MLH-10ADP-2 is an adapter to mount the MLH-SF on a fiber holder (FOP), enabling adjustment of position and tilt. Reference ▶ C076
- The MLH-10ADP-2 can also mount on a □40mm XYZ stage (TSD-405L), enabling precision position adjustment of optics. ▶ WEB Reference Catalog Code W7078

### Guide

▶ A tapped M6 screw hole on the end of the MLH-SF allows the holder to be directly mounted on a post.
▶ Because there is no step on the arm, lens of thickness 2mm or higher can be fixed.
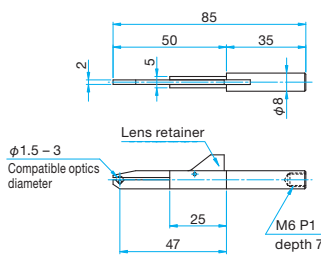
### Attention

▶ Because the tip of the arm has a V groove, rectangular optics can be mounted tilted. Either fix at a position away from the V groove, or fix with the optic glued to the flat plane on the top of the arm.
▶ The MLH-10ADP-2 cannot be mounted on two-axis pinholes/objective holders (TAT) other than the FOP.
▶ When the MLH-10ADP-2 is mounted on an FOP, it is necessary to remove the FOP adapter. Delivery of MLH-10ADP-2 and MLH-SF assembled on the FOP is available. Contact our International Sales Division for more information.
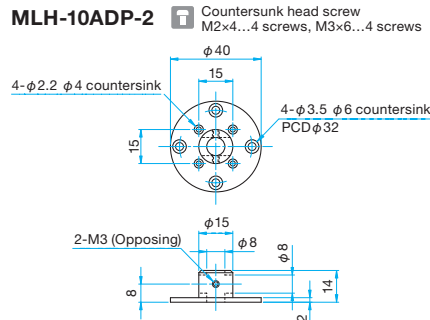
### Specifications

Primary material: Aluminum
Finish: Black Anodized

| Part Number | Compatible Optics Diameter [mm] | Weight [kg] |
|---|---|---|
| **MLH-SF** | φ1.5 – φ3 | 0.02 |
| **MLH-10ADP-1** | — | 0.06 |
| **MLH-10ADP-2** | — | 0.01 |

## Outline Drawing

**MLH-SF**



**MLH-10ADP-2** Countersunk head screw M2×4…4 screws, M3×6…4 screws



**MLH-10ADP-1** M6 P1

2D CAD  3D CAD
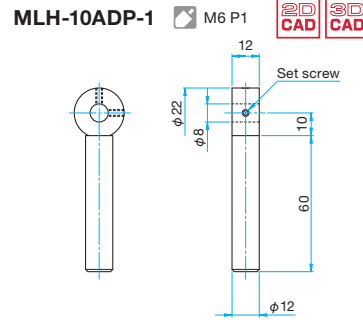


## Example of Use

**Fixed Micro Lens Claws**

Assembled with the MLH-SF and MLH-10ADP-1 When fixing microscopic lenses simply

**Micro Lens Claws with four-axis adjustment mechanism**

Example of mounting the MLH-SF and MLH-10ADP-2 assembly on a fiber holder (FOP-2DM)
Configured for up/down left/right position adjustment of devices such as microscopic prisms, and tilt adjustment of device surfaces

**Micro Lens Claws with two-axis adjustment mechanism**

Example of mounting the MLH-SF and MLH-10ADP-2 assembly on a fiber holder (FOP-1)
Configuration enables optical axis adjustment of microscopic lenses

**Micro Lens Claws with three-axis adjustment mechanism**

Example of mounting the MLH-SF and MLH-10APD-2 assembly on a XYZ Axis Translation Stages (TSD-405SL)





Refer to the fiber holder (FOP).
Reference ▶ C076



Refer to the fiber holder (FOP).
Reference ▶ C076



Refer to the XYZ Axis Translation Stages (TSD-405SL). ▶ WEB Reference Catalog Code W7078