

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

MotORIZED Stages

Light Sources & Laser Safety

Index

Guide

Mirrors

Lenses

Prisms

Polarizers

Lasers

Beam Shaping Diffusers

Filters

Shutter

Others

Fiber

Top adjustment of these mirror mounts allow for devices to be placed in close proximity with each other.

The mount can be mounted so that the micrometers are facing upwards or horizontally with the correct baseplate.

- The optical axis of the mount does not change with vertical or horizontal mounting.
- Each baseplate will work with the mount vertically or horizontally.



Guide

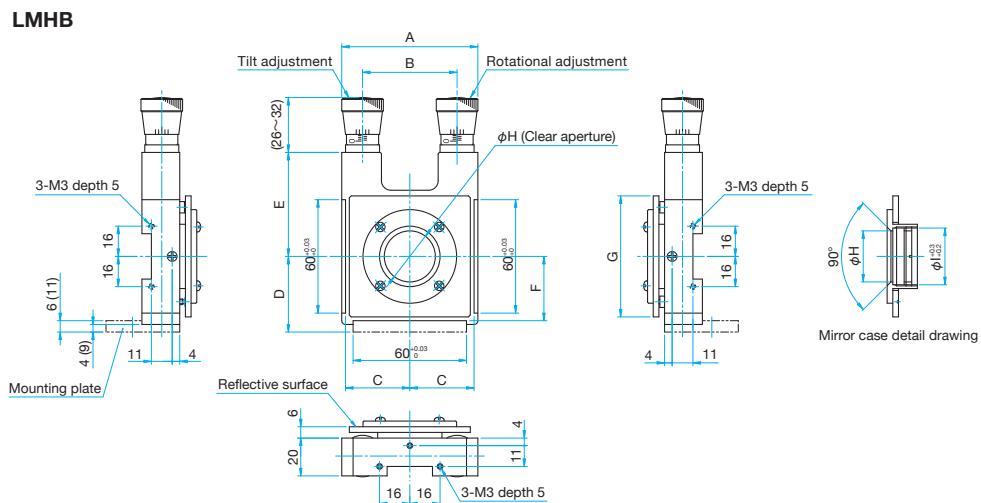
► Vertical control gimbal mirror and beamsplitter holders (BSHL) of which rotation center of fine adjustment matches the center of the mirror reflective surface are also available. [Reference](#) ► C022

Attention

- LMHBP plates are required to install the mount onto an optical table.
- Beamsplitters will have the transmitted beam partially blocked at 45 degrees incident. MHG or MHAN mounts are commended for beamsplitters. [Reference](#) ► C014, C024



Outline Drawing



Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	φH (mm)	φI (mm)
LMHB-25.4M	72	50	34	40	55	34	64	φ22	φ25.4
LMHB-30M	72	50	24	40	55	34	64	φ27	φ30
LMHB-50M	102	80	49	55	69	49	94	φ47	φ50
LMHB-50.8M	102	80	49	55	69	49	94	φ47	φ50.8
LMHB-60M	102	80	49	55	69	49	94	φ57	φ60

Specifications

Primary material: Aluminum
Finish: Black Anodized

Part Number	Compatible Optics		Adjustment Range		Resolution		Weight [kg]
	Diameter [mm]	Thickness [mm]	Tilt [°]	Rotation [°]	Tilt [°/rotation]	Rotation [°/rotation]	
LMHB-25.4M	φ25.4	3 – 9	±2.8	±2.8	about 0.006	about 0.006	0.44
LMHB-30M	φ30	3 – 9	±2.8	±2.8	about 0.006	about 0.006	0.44
LMHB-50M	φ50	2 – 16	±1.8	±1.8	about 0.004	about 0.004	0.75
LMHB-50.8M	φ50.8	2 – 16	±1.8	±1.8	about 0.004	about 0.004	0.75
LMHB-60M	φ60	4 – 17	±1.8	±1.8	about 0.004	about 0.004	0.75

Option Plates for Topmike Vertical Control Mirror Holders | LMHBP

RoHS Catalog Code W4503

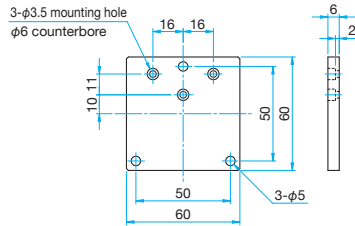
These plates are for mounting vertical control mirror holders (LMHB) on an optical breadboard, optical baseplates, or post.



Outline Drawing

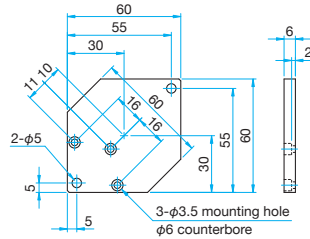
LMHBP-0

☐ Pan head screw M3×6...3screws,
Hexagon socket head cap screw M4×10...3 screws



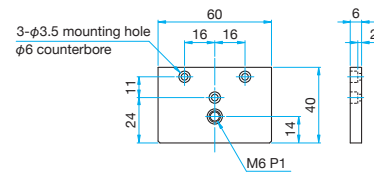
LMHBP-45

☐ Pan head screw M3×6...3screws,
Hexagon socket head cap screw M4×10...2 screws



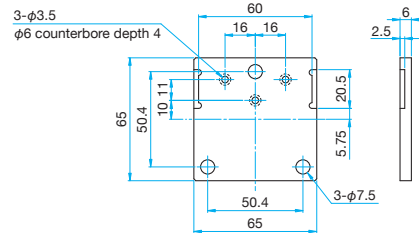
LMHBP-M6

☐ Pan head screw M3×6...3 screws



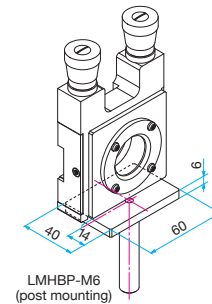
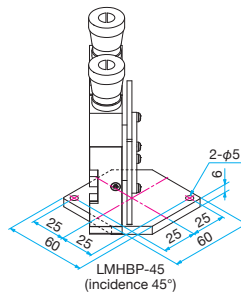
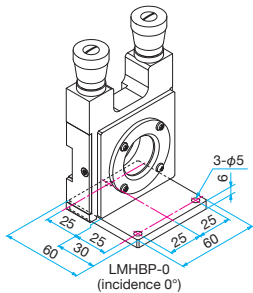
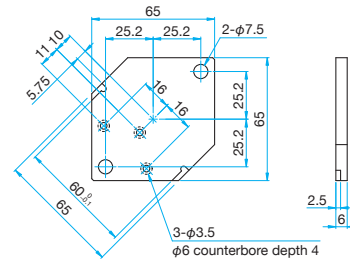
LMHBP-0EE/0UU

☐ Pan head screw M3×6...3 screws, Hexagon socket head cap screw M6×12...3 screws (EE)
☐ Pan head screw M3×6...3 screws, Hexagon socket head cap screw 1/4-20UNC×1/2...3 screws (UU)



LMHBP-45EE/45UU

☐ Pan head screw M3×6...3 screws, Hexagon socket head cap screw M6×12...2 screws (EE)
☐ Pan head screw M3×6...3 screws, Hexagon socket head cap screw 1/4-20UNC×1/2...2 screws (UU)



Specifications

Primary material: Aluminum
Finish: Black Anodized

Part Number		Type	Weight [kg]
METRIC	INCH		
LMHBP-0	—	0°Incidence, M4 Screw	0.06
LMHBP-0EE	LMHBP-0UU	0°Incidence, M6 or Inch Screw	0.06
LMHBP-45	—	45°Incidence, M4 Screw	0.05
LMHBP-45EE	LMHBP-45UU	45°Incidence, M6 or Inch Screw	0.05
LMHBP-M6	—	Post of M6 threaded	0.04

Method to Change the Control Direction

To change the control direction for adjusting a mirror to left or right, please change the direction of the LMHB and mount it on a plate. Change in the control direction does not change the optical axis height (D). Please remove the blindfold boards attached on the sides of the holder, and mount the plate on one side of the holder.

