

Beam Steering Holders Precision Beam Steering Assembly

BSH

- Application Systems
- Machine Vision
- Manual Positions
- Motion Control Products

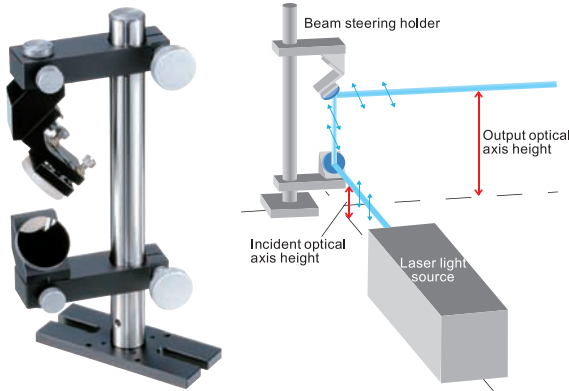
- Optical & Mirror Holder
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- Mirrors
- Beamsplitters
- Filters
- Polarizers
- Lenses
- Multi-Element Optics
- Prisms
- Substrates & Windows
- Holder & Vibration Isolator

BSH

Beam steering mounts are designed to make it easy to change the height and direction of a laser beam.

- ▶ Length of the optional post (PO-20-***) can be selected, allowing extension of the adjustment range.
- ▶ Use the optional mirror (φ 25mm or less, thickness 5mm) by bonding it to the holder.
- ▶ In addition to the optical axis height of the mirror, the position of the mirror (on a circumference of a 50mm radius from the post) and mirror orientation can be coarse adjusted, and securely fixed with clamps.
- ▶ Adjustment screws are provided on the output side of the mirror to fine tune the direction of the output beam.



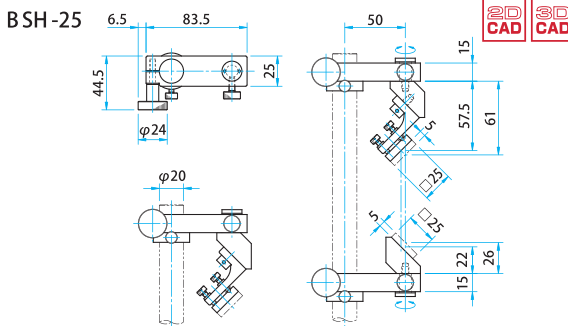
Guide

- ▶ The photograph shows a typical configuration combining baseplate (BSP-70170), post (PO-20-200) and two mirrors (TFA-30C05-10).
- ▶ Adjustable mirror mounts in both locations are also available.

Attention

- ▶ Depending on the direction reflected with the two mirrors, the polarization direction of the laser may change 90°. (See the illustration)
- ▶ When used in high precision optical systems such as interferometers or laser processing, use silicon adhesive so that the adhesive does not cause distortion of the mirror.
- ▶ Top and bottom holders require 127mm allowance. Select length of posts to match the required optical axis height.

Outline Drawing



Specifications		Primary material: Aluminum Finish: Black Anodized	
Part Number	Compatible Optics Diameter [mm]	Compatible Optics Thickness [mm]	Weight* [kg]
BSH-25	□ 25 or less □ 25 or less	3 - 5	0.4

* Weight does not include the weight of posts and baseplates.

BSH

- ▶ The φ 38.1mm strut fitted with a vibration isolation function, and two top and bottom holders are a product set.
- ▶ High stability is obtained from the damping properties of the strut and the rigidity of the holders.
- ▶ Use the optional mirror (φ 30mm, thickness 5mm) by bonding it to the holder.
- ▶ In addition to the optical axis height of the mirror, the position of the mirror (on a circumference of a 75mm radius from the post) and mirror orientation can be coarse adjusted, and securely fixed with clamps.
- ▶ Adjustment screws are provided on the output side of the mirror, and angle adjustment of the output beam can be performed.

Attention

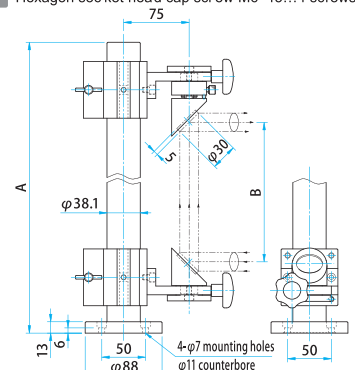
- ▶ To use damping properties, set up the strut directly on the laboratory table or a vibration isolator.



Outline Drawing

BSH-177/355

Hexagon socket head cap screw M6×15...4 screws



Specifications

Part Number	Compatible Optics Diameter [mm]	Compatible Optics Thickness [mm]	Strut material: Stainless steel, Finish: None Control part primary material: Aluminum, Finish: Black Anodized		
			A [mm]	φ B [mm]	Weight [kg]
BSH-177	φ30	5	177.8	33 - 40	3
BSH-355	φ30	5	355.6	33 - 220	4.6

Introducing Other Mirror Holders

There are a variety of unique mirror holders that could not be shown in the catalog. Confirm detailed specifications on our website.

Vertical Control Small Mirror Holders | LMMH



One-touch Kinematic Mirror Holders | MHF



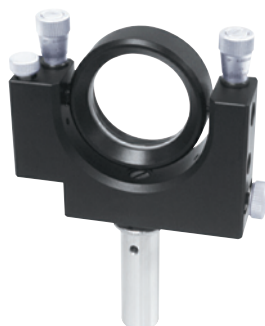
Topmike Vertical Control Mirror Holders | LMHB



Kinematic Mirror Holders | MHB



Vertical Control Gimbal Mirror Holders | LMHA



Close-proximity Mirror Holders | MHE



Larger Precision Gimbal Mirror Holders | MHD



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Classification of Mirror or Holder Functions

Part Number	Mounting Center	Rotational Mechanism	Fine Adjustment Center	Optics Fixation	Control Directions	Control Part
LMMH	Offset	None	Offset	Lateral side set screw	Vertical	Screw
MHF	Mirror center	None	Offset	One-touch Lever	Back	Screw
LMHB	Offset	None	Offset	Retaining ring	Vertical	Micro
MHB	Offset	None	Offset	Retaining ring	Back	Screw/Micro
LMHA	Mirror center	Mirror center	Mirror center	Retaining ring	Vertical	Micro
MHE	Mirror center	Mirror center	Mirror center	3 Point back weight	Front/Back	Micro
MHD	Offset	None	Mirror center	3 Point back weight	Back	Micro