

Small Kinematic Mirror Holders

SKMH

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Compact mirror holders with minimum necessary functions.

Compatible with various sizes of mirrors by attaching the mirror to the holder using adhesive.

Appropriate for usage where the operability of angle fine-tuning is not an issue and mirrors need to be placed within a limited space inside a device.

- ▶ With the mirror case adapters (MCA), standard mirrors can be easily mounted and removed.
- ▶ In order to avoid interference with other holders, there are two choices for the baseplate mounting hole position; SKMH-25 type has the mounting holes on the mirror side, and SKMH-25R type has it on the adjustment screw side.
- ▶ To align the reflective surface of the mirror to the post axis use holders SKMH-25M6.
- ▶ SKMH-50 can fix 40mm mirrors using mirror retaining screws. □ 50mm mirrors also can be held using adhesive when the top mounting brackets and pins are removed.



Guide

- □ 25mm square aluminum fat mirrors (TFA-25S05-10) and □ 50mm square aluminum fat mirrors (TFA-50S08-10) are available.

Reference C032

Attention

- ▶ When mirrors are bonded to holders, stress exerted by hardening of adhesive may deteriorate the surface accuracy of mirrors. Use silicon adhesive that has less stress when optical systems require surface accuracy of mirrors such as interferometers or laser processing.
- ▶ Mirrors may not be removed once they are bonded. Holder performance will deteriorate if trying to remove mirrors by force, or keeping holders in high temperature for a prolonged time. Bond mirrors carefully to avoid failure.
- ▶ Since these are kinematic mirror holders, the rotation center of the fine-adjustment mechanism is not on the reflective surface of mirror. Gimbal mirror holders (GMB) that have the rotation center of fine adjustment on the reflective surface of mirror are also available.

Reference D018

Specifications

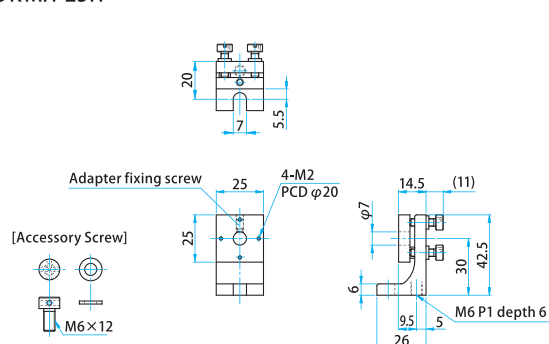
Primary material: Aluminum
Finish: Black Anodized

Part Number	Compatible Optics Diameter [mm]	Fine-Adjustment	Fine-Adjustment	Resolution Tilt [°/rotation]	Resolution Rotation [°/rotation]	Weight [kg]
		Range Tilt [°]	Range Rotation [°]			
SKMH-25H	□ 25 or less	±5	±5	about 0.9	about 0.9	0.03
SKMH-25M6		±5	±5	about 0.9	about 0.9	0.09
SKMH-25RH		±5	±5	about 0.9	about 0.9	0.03
SKMH-25RM6		±5	±5	about 0.9	about 0.9	0.09
SKMH-50H	□ 50 or less □ 40	±4	±4	about 0.38	about 0.38	0.20
SKMH-50M6		±4	±4	about 0.38	about 0.38	0.26

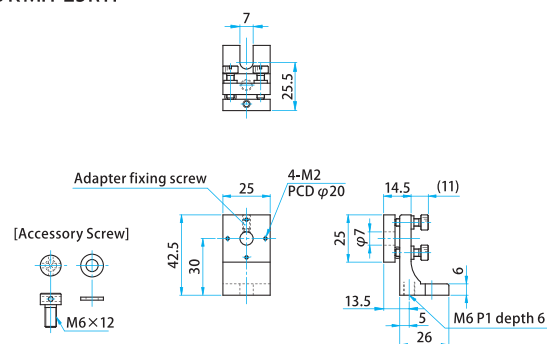


Outline Drawing

SKMH-25H



SKMH-25RH

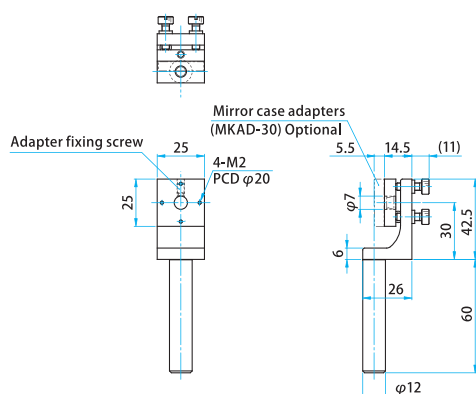




Outline Drawing

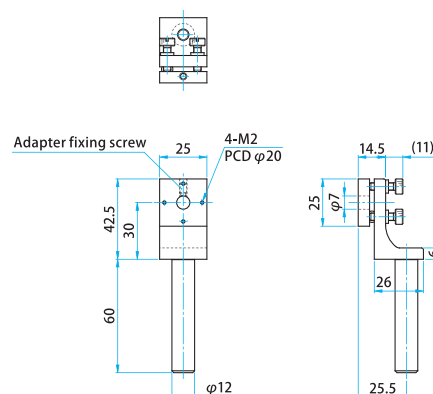
SKMH-25M6

M6 P1

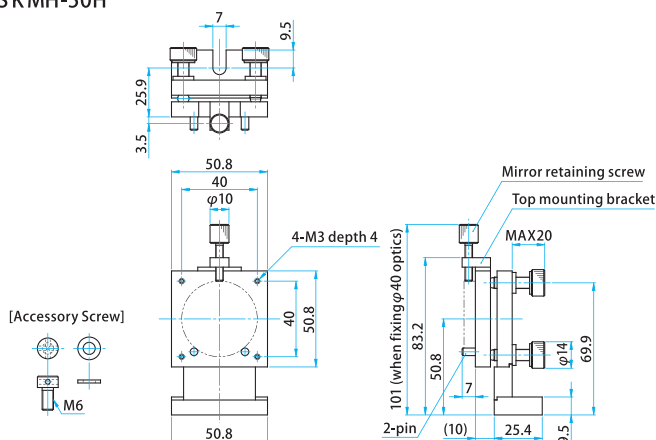


SKMH-25RM6

M6 P1

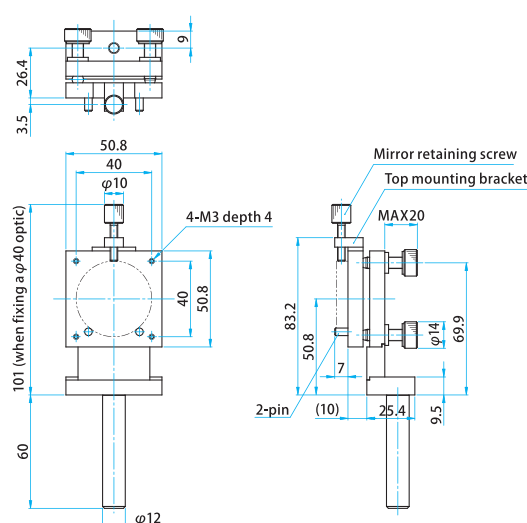


SKMH-50H



SKMH-50M6

M6 P1



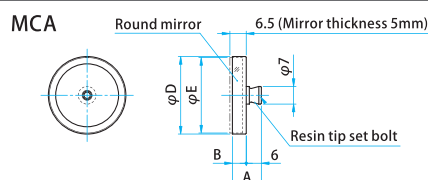
Option Mirror Case Adapters | MCA

Adapters for holding mirrors in compact mirror holders (SKMH-25) without adhesive.

- ▶ This product can securely fix a mirror by fitting the mirror in its split frame with the mirror surface facing the front.
- ▶ To remove the mirror, push the mirror out from the frame by inserting an M4 resin set bolt point from the back.



Outline Drawing



Specifications

Specifications							Primary material: Aluminum Finish: Black Anodized
Part Number	Compatible Optics Diameter [mm]	A [mm]	B [mm]	Min Mirror Thickness [mm]	φ D [mm]	φ E [mm]	Weight [kg]
MCA-20	φ 20	10.5	4.5	3	20.7	20 ^{+0.15} _{+0.1}	0.003
MCA-25	φ 25	11.5	5.5	4	25.7	25 ^{+0.15} _{+0.1}	0.005
MCA-25.4	φ 25.4	11.5	5.5	4	26.1	25.4 ^{+0.15} _{+0.1}	0.005
MCA-30	φ 30	11.5	5.5	4	30.8	30 ^{+0.15} _{+0.1}	0.006

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