

NEW Holder Attached Surface Accuracy Guaranteed Mirrors | SAGM-MHG RoHS

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

FA Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

Mirrors

Beamsplitters

Filters

Polarizers

Lenses

Multi-Element Optics

Prisms

Substrates & Windows

Holder & Vibration isolator

By bonding the coated surface to our Kinematic Mirror Holders, a $\lambda/10$ surface accuracy is guaranteed! This product can be used by composition with high accuracy wavefront optical system or interferometer requirements.

- 2 types of performance mirror holders offered: high stability mirror holder (KMH-HS) or production model (KMH-MP).



Specifications

Holder

Movable axis	SAGM-MHG-HS : 3 axes (SAGM-12.7C08-MHG-MP : 3axes)	SAGM-MHG-MP : 2 axes
Main Material	Aluminum (Brass: KMH-MP12.7 only)	
Finishing	Black anodized (Only KMH-MP12.7 is Super black chrome)	

Mirror

Material	Synthetic fused silica
Coating	Dielectric multi-layer coating
Incident angle	45°±3°
Surface Accuracy	After holder is attached $\lambda/10$
Surface Quality (Scratch-Dig)	10-5
Clear aperture	80% of Actual Aperture
Rear Surface	Polished

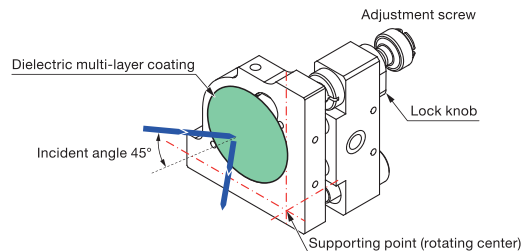
Guide

- ▶ The Production model (KMH-MP) is equipped with lock mechanisms in the adjustment screw.
- ▶ This product can be attached to a rod (RS-**-**): separately available) or a post stand (PS-**-**): separately available). [Reference](#) ▶ F036, F043
- ▶ Confirm the reflection rate wavelength characteristic with the graph of the surface accuracy guaranteed mirror (SAGM). [Reference](#) ▶ C012

Attention

- ▶ The mirror surface will protrude by 2mm from the holder after attachment.
- ▶ Surface accuracy guarantee data is not attached. If required, a creation fee will be charged. Please contact our Sales department for more information.
- ▶ Surface accuracy will not be guaranteed when the mirror is detached.
- ▶ Any impacted shock to the holder or mirror may result in poor surface accuracy.
- ▶ For production model (KMH-MP), the rotation center is at the external side of the mirror (support point of the holder)
- ▶ When fixing the high stability model (KMH-HS) to a flat surface, please use supplied plate for attached posts
- ▶ The optical axis will be 10mm higher after using the supplied plates after attachment.

Schematic



248 - 308nm

Part Number	Wavelength Range [nm]	Compatible Optics Diameter D [mm]	Reflectance [%]	Holder part number	Adjustment Range		Resolution		Weight [kg]
					Elevation [°]	Rotation [°]	Elevation [°/rotation]	Rotation [°/rotation]	
SAGM-12.7C08-248-MHG-MP	248	φ12.7	>99.2	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-248-MHG-MP	248	φ25.4	>99.2	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-248-MHG-HS	248	φ25.4	>99.2	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-248-MHG-MP	248	φ30	>99.2	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-248-MHG-HS	248	φ30	>99.2	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-248-MHG-MP	248	φ50	>99.2	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-248-MHG-MP	248	φ50.8	>99.2	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24
SAGM-12.7C08-266-MHG-MP	266	φ12.7	>99.2	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-266-MHG-MP	266	φ25.4	>99.2	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-266-MHG-HS	266	φ25.4	>99.2	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-266-MHG-MP	266	φ30	>99.2	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-266-MHG-HS	266	φ30	>99.2	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-266-MHG-MP	266	φ50	>99.2	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-266-MHG-MP	266	φ50.8	>99.2	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24
SAGM-12.7C08-308-MHG-MP	308	φ12.7	>99.5	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-308-MHG-MP	308	φ25.4	>99.5	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-308-MHG-HS	308	φ25.4	>99.5	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-308-MHG-MP	308	φ30	>99.5	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-308-MHG-HS	308	φ30	>99.5	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-308-MHG-MP	308	φ50	>99.5	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-308-MHG-MP	308	φ50.8	>99.5	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24

355 – 1064nm									
Part Number	Wavelength Range [nm]	Compatible Optics Diameter D [mm]	Reflectance [%]	Holder part number	Adjustment Range		Resolution		Weight [kg]
					Elevation [°]	Rotation [°]	Elevation [°/rotation]	Rotation [°/rotation]	
SAGM-12.7C08-355-MHG-MP	355	φ12.7	>99.5	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-355-MHG-MP	355	φ25.4	>99.5	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-355-MHG-HS	355	φ25.4	>99.5	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-355-MHG-MP	355	φ30	>99.5	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-355-MHG-HS	355	φ30	>99.5	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-355-MHG-MP	355	φ50	>99.5	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-355-MHG-MP	355	φ50.8	>99.5	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24
SAGM-12.7C08-532-MHG-MP	532	φ12.7	>99.5	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-532-MHG-MP	532	φ25.4	>99.5	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-532-MHG-HS	532	φ25.4	>99.5	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-532-MHG-MP	532	φ30	>99.5	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-532-MHG-HS	532	φ30	>99.5	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-532-MHG-MP	532	φ50	>99.5	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-532-MHG-MP	532	φ50.8	>99.5	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24
SAGM-12.7C08-1064-MHG-MP	1064	φ12.7	>99.5	MHG-MP12.7	±3	±3	about 0.74	about 0.74	0.04
SAGM-25.4C08-1064-MHG-MP	1064	φ25.4	>99.5	MHG-MP25	±3	±3	about 0.39	about 0.39	0.12
SAGM-25.4C08-1064-MHG-HS	1064	φ25.4	>99.5	MHG-HS25	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-1064-MHG-MP	1064	φ30	>99.5	MHG-MP30	±3	±3	about 0.39	about 0.39	0.12
SAGM-30C08-1064-MHG-HS	1064	φ30	>99.5	MHG-HS30	±3	±3	about 0.39	about 0.39	0.12
SAGM-50C11-1064-MHG-MP	1064	φ50	>99.5	MHG-MP50	±2	±2	about 0.26	about 0.26	0.24
SAGM-50.8C11-1064-MHG-MP	1064	φ50.8	>99.5	MHG-MP50.8	±2	±2	about 0.26	about 0.26	0.24

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

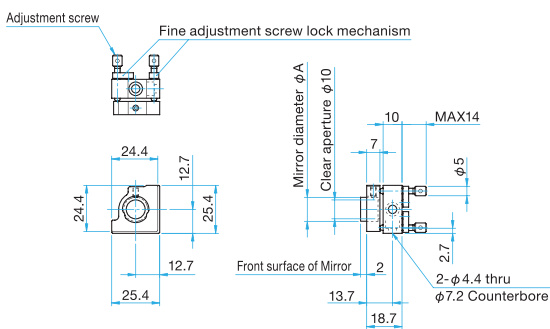
Cleanroom & AntiStatic

Index

Outline Drawing (in mm)

SAGM-12.7C08-MHG-MP

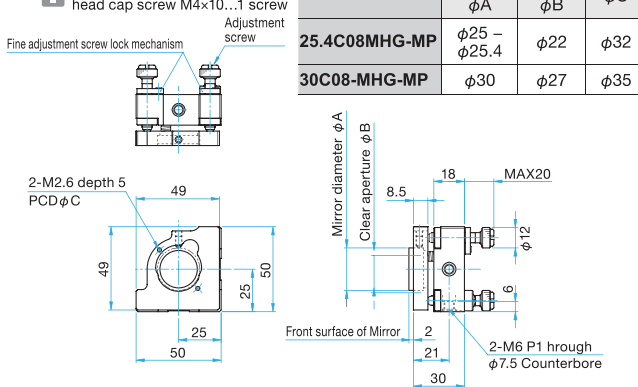
Hexagon socket head cap screw M4×6...1 screw



SAGM-25.4C08-MHG-MP

SAGM-30C08-MHG-MP

Hexagon socket head cap screw M4×10...1 screw



Part Number	Mirror diameter φA	Clear aperture φB	PCD φC
25.4C08MHG-MP	φ25 - φ25.4	φ22	φ32
30C08-MHG-MP	φ30	φ27	φ35

Mirrors

Beamsplitters

Filters

Polarizers

Lenses

Multi-Element Optics

Prisms

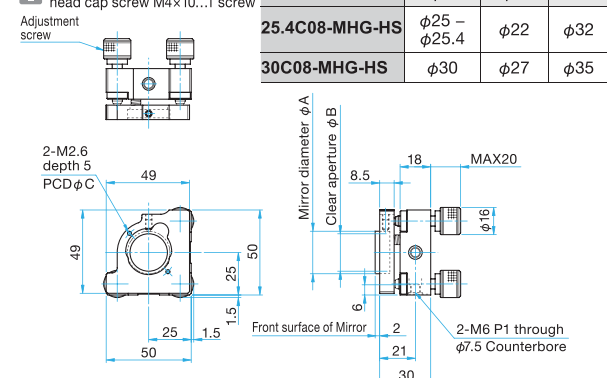
Substrates & Windows

Holder & Vibration isolator

SAGM-25.4C08-MHG-HS

SAGM-30C08-MHG-HS

Hexagon socket head cap screw M4×10...1 screw

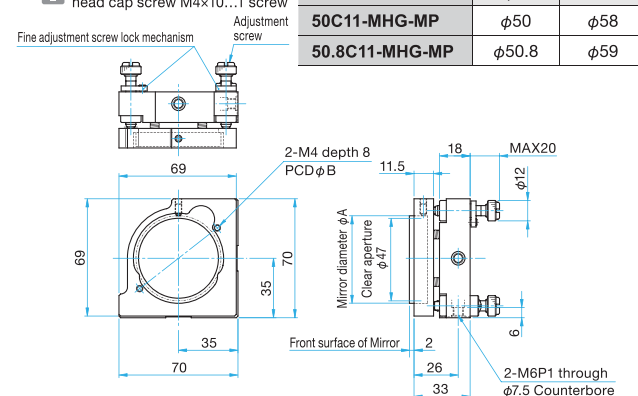


Part Number	Mirror diameter φA	Clear aperture φB	PCD φC
25.4C08-MHG-HS	φ25 - φ25.4	φ22	φ32
30C08-MHG-HS	φ30	φ27	φ35

SAGM-50C11-MHG-MP

SAGM-50.8C11-MHG-MP

Hexagon socket head cap screw M4×10...1 screw



Part Number	Mirror diameter φA	PCD φB
50C11-MHG-MP	φ50	φ58
50.8C11-MHG-MP	φ50.8	φ59