

Extended Contact Micrometer Goniometers

Stage Size 65 × 65 mm

GOHT-65A-S

RoHS

High precision goniometers with integrated bearing ways for superior stiffness, accuracy and durability.

- Integrated Extended Contact Bearing Ways for simpler construction, higher load and durability, and lower cost.
- Centering accuracy 10x better than typical dovetail goniometers.
- Designed for use in a variety of orientations. Not limited to horizontal mounting.
- Designed for use with precision alignment pins for ease of assembly.



Guide

- ▶ Attachment pins (GOHT-AP) can be purchased separately.
Reference E010 **Catalog Code** W7112
- ▶ Contact our Sales Division for information about custom center heights.

Attention

- ▶ Locking mechanism is operated using thumbscrew on side of stage.
- ▶ When assembled to an $\alpha\beta$ axis stage, the micrometer head of the α axis stage interferes. Please contact our Sales Division for more information.

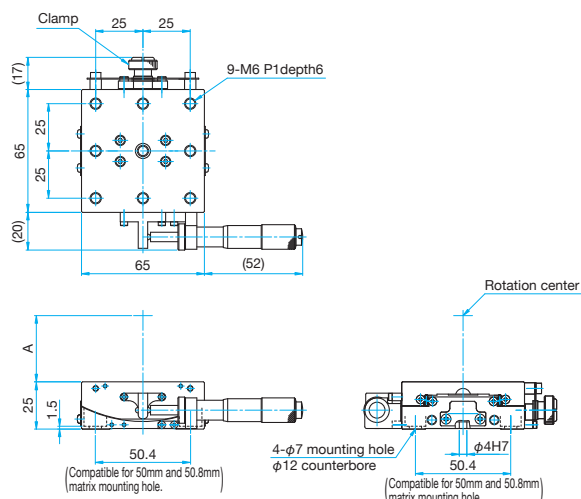
Specifications				
Part Number	METRIC	GOHT-65A50BMS-M6	GOHT-65A75BMS-M6	GOHT-65A100BMS-M6
	INCH	GOHT-65A50BMSUU	GOHT-65A75BMSUU	GOHT-65A100BMSUU
(Opposite Model)	METRIC	GOHT-65A50BMSR-M6	GOHT-65A75BMSR-M6	GOHT-65A100BMSR-M6
	INCH	GOHT-65A50BMSRUU	GOHT-65A75BMSRUU	GOHT-65A100BMSRUU
Stage Size [mm]		65×65	65×65	65×65
Axes of Travel		α axis		
Micrometer Position		Side	Side	Side
Rotation Center Height [mm]		50±0.1	75±0.1	100±0.1
Angle Range [°]		±10	±7	±6
Travel per Knob Rotation [°]		about 0.44	about 0.32	about 0.25
Rotation Center Displacement [mm]		φ0.007 or less	φ0.007 or less	φ0.007 or less
Guide Method		Extended contact ball bearing guide		
Primary Material		SUS440C quench hardened		
Finish		Super black chrome		
Load Capacity [N]		98 (10.0kgf)	98 (10.0kgf)	98 (10.0kgf)
Max. Moment Capacity	Pitch [N·m]	3.0	3.0	3.0
	Roll [N·m]	6.0	6.0	6.0
	Yaw [N·m]	3.0	3.0	3.0
Moment Stiffness	Roll [°/N·cm]	0.25	0.25	0.25
	Yaw [°/N·cm]	0.1	0.1	0.1
Parallelism [μm]		30	30	30
Weight [kg]		0.7	0.7	0.7



Outline Drawing

GOHT-65A**BMS

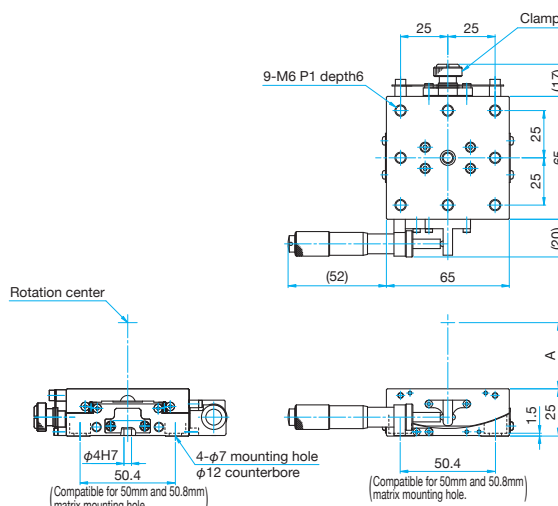
Hexagon socket head cap screw (stainless steel construction) M6×8...4 screws
Attachment pins for M6...1 pin



Part Number	A (mm)
GOHT-65A50BMS-M6	50
GOHT-65A75BMS-M6	75
GOHT-65A100BMS-M6	100

GOHT-65A**BMSR

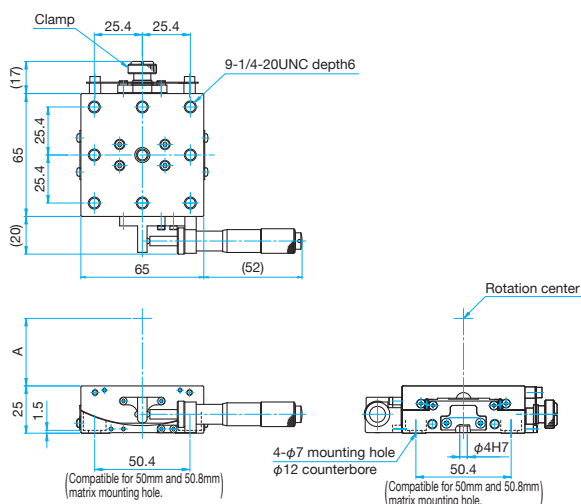
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GOHT-65A**BMSUU

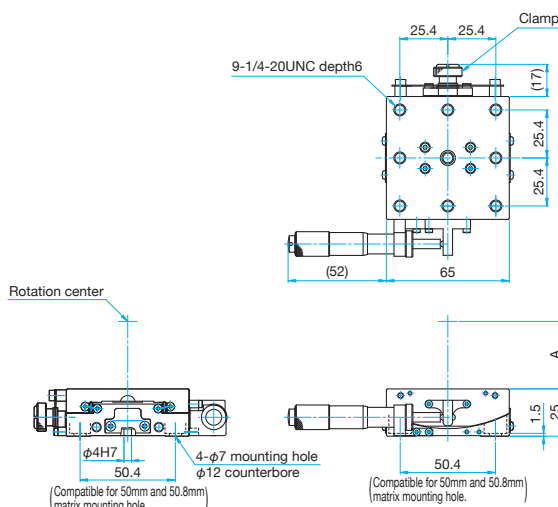
Low head hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×1/4...4 screws, Attachments pin for 1/420UNC...1 pin



Part Number	A (mm)
GOHT-65A50BMSUU	50
GOHT-65A75BMSUU	75
GOHT-65A100BMSUU	100

GOHT-65A**BMSRUU

Low head hexagon socket head cap screw (stainless steel construction) 1/4-20UNC×1/4...4 screws, Attachment pins for 1/420UNC...1 pin



Part Number	A (mm)
GOHT-65A50BMSRUU	50
GOHT-65A75BMSRUU	75
GOHT-65A100BMSRUU	100

Application Systems

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XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

Vacuum

Ball Bearing Guide

Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

Others