

Extended Contact Micrometer Goniometers

Stage Size 60 × 60 mm

GOHT-60A-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 team for information about custom center heights.
- ▶ Motorized version (OSMS-60A***) also available.
Reference G092 **Catalog Code** W9080

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-60A35BMS	GOHT-60A60BMS	GOHT-60A85BMS	GOHT-60A105BMS
(Opposite Model)	METRIC	GOHT-60A35BMSR	GOHT-60A60BMSR	GOHT-60A85BMSR	GOHT-60A105BMSR
Stage Size [mm]		60×60	60×60	60×60	60×60
Axes of Travel		α axis			
Micrometer Position		Side	Side	Side	Side
Rotation Center Height [mm]		35±0.1	60±0.1	85±0.1	105±0.1
Angle Range [°]		±7	±4.5	±3.5	±3
Travel per Knob Rotation [°]		about 0.57	about 0.38	about 0.3	about 0.25
Rotation Center Displacement [mm]		φ0.007 or less	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)	98 (10.0kgf)
Max. Moment Capacity	Pitch [N·m]	3.0	3.0	3.0	3.0
	Roll [N·m]	6.0	6.0	6.0	6.0
	Yaw [N·m]	3.0	3.0	3.0	3.0
Moment Stiffness	Roll [°/N·cm]	0.25	0.25	0.25	0.25
	Yaw [°/N·cm]	0.1	0.1	0.1	0.1
Parallelism [μm]		30	30	30	30
Weight [kg]		0.6	0.6	0.6	0.6

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

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

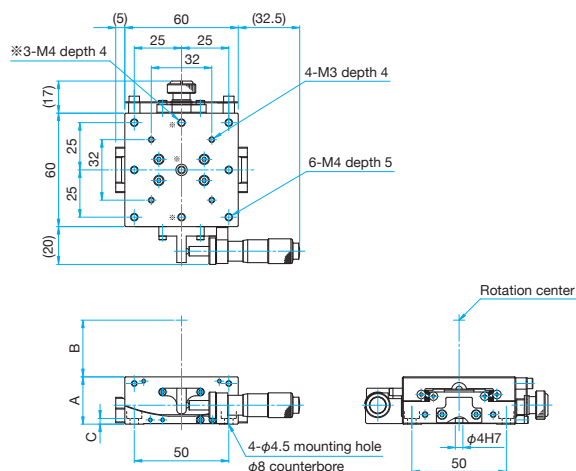
Others



Outline Drawing

GOHT-60ABMS**

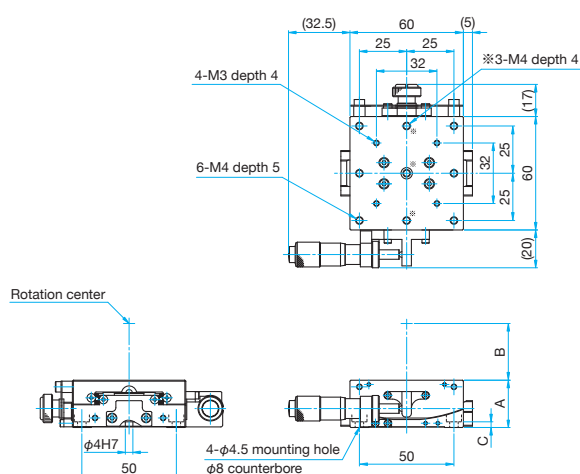
Hexagon socket head cap screw (stainless steel construction) M4×8...4 screws
Attachment pin for M4...1 pin



Part Number	A (mm)	B (mm)	C (mm)
GOHT-60A35BMS	25	35	3
GOHT-60A60BMS	25	60	3
GOHT-60A85BMS	20	85	2
GOHT-60A105BMS	20	105	2

GOHT-60ABMSR**

Hexagon socket head cap screw (stainless steel construction) M4×8...4 screws
Attachment pin for M4...1 pin



Part Number	A (mm)	B (mm)	C (mm)
GOHT-60A35BMSR	25	35	3
GOHT-60A60BMSR	25	60	3
GOHT-60A85BMSR	20	85	2
GOHT-60A105BMSR	20	105	2

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

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