

Extended Contact Micrometer Goniometers

Stage Size 40 × 40 mm

GOHT-40A-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-40A***) also available.
Reference G090 **Catalog Code** W9079

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-40A20BMS	GOHT-40A40BMS	GOHT-40A60BMS	GOHT-40A75BMS
	INCH	GOHT-40A20BMSUU	GOHT-40A40BMSUU	GOHT-40A60BMSUU	GOHT-40A75BMSUU
(Opposite Model)	METRIC	GOHT-40A20BMSR	GOHT-40A40BMSR	GOHT-40A60BMSR	GOHT-40A75BMSR
	INCH	GOHT-40A20BMSRUU	GOHT-40A40BMSRUU	GOHT-40A60BMSRUU	GOHT-40A75BMSRUU
Stage Size [mm]		40×40	40×40	40×40	40×40
Axes of Travel		α axis			
Micrometer Position		Side	Side	Side	Side
Rotation Center Height [mm]		20±0.1	40±0.1	60±0.1	75±0.1
Angle Range [°]		±11	±7	±5.5	±4.5
Travel per Knob Rotation [°]		about 0.9	about 0.55	about 0.42	about 0.35
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]		58.8 (6.0kgf)	58.8 (6.0kgf)	58.8 (6.0kgf)	58.8 (6.0kgf)
Max. Moment Capacity	Pitch [N·m]	2.0	2.0	2.0	2.0
	Roll [N·m]	3.0	3.0	3.0	3.0
	Yaw [N·m]	2.0	2.0	2.0	2.0
Moment Stiffness	Roll [°/N·cm]	0.6	0.6	0.6	0.6
	Yaw [°/N·cm]	0.6	0.6	0.6	0.6
Parallelism [μm]		30	30	30	30
Weight [kg]		0.2	0.2	0.2	0.2

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

E183