

# $\alpha$ Axis Goniometers

## $\alpha$ Axis Goniometers / $\alpha\beta$ Axis Goniometers

GOH-15A

Stage Size 15 × 15 mm

RoHS

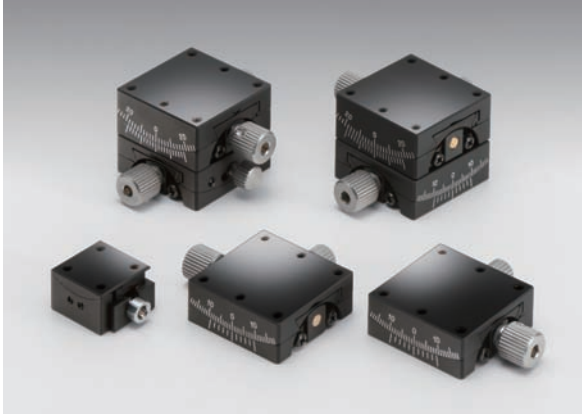
GOH-25A/25B

Stage Size 25 × 25 mm

RoHS

Goniometers with dovetail slide and worm gear construction for angular adjustment of heavy loads.

- GOH-15A model : Smallest Goniometer available, exclusively from OptoSigma.
- GOH-25A model : Vernier scales for reading angular position. Locking mechanism clamps dovetail to minimize movement.



### Guide

- ▶ To operate the GOH-15A10, a 2.5mm hex wrench is required and is included with stage.

### Attention

- ▶ Due to size limitations, the GOH-15A10 does not include a scale or clamping mechanism.
- ▶ Locking mechanism is operated using thumbscrew on side of stage.

Application Systems

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Z Axis Stages

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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

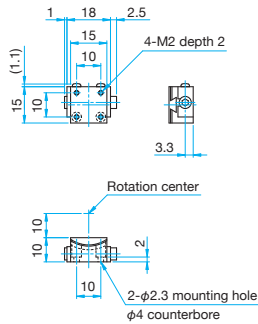
Others

Specifications							
Part Number	METRIC	GOH-15A10	GOH-25A18	GOH-25A30	GOH-25A40	GOH-25B18	GOH-25B30
(Opposite Model)	METRIC	—	GOH-25A18R	GOH-25A30R	GOH-25A40R	GOH-25B18R	GOH-25B30R
Stage Size [mm]		15×15	25×25	25×25	25×25	25×25	25×25
Axes of Travel		$\alpha$ axis				$\alpha\beta$ axis	
Rotation Center Height [mm]		10±0.1	18±0.1	30±0.1	40±0.1	18±0.1	30±0.1
Angle Range [ ° ]	(Upper) $\beta$ axis	—	—	—	—	±20	±15
	(Lower) $\alpha$ axis	±20	±20	±15	±10	±15	±10
Vernier Readable Resolution		—	12'	12'	12'	12'	12'
Travel per Knob Rotation [ ° ]	(Upper) $\beta$ axis	—	—	—	—	about 3.1	about 2.17
	(Lower) $\alpha$ axis	about 5	about 3.1	about 2.17	about 1.67	about 2.17	about 1.67
Rotation Center Displacement [mm]		φ0.1 or less	φ0.1 or less	φ0.1 or less	φ0.1 or less	φ0.1 or less	φ0.1 or less
Guide Method		Dovetail slide method					
Primary Material		Brass					
Finish		Super black chrome					
Load Capacity [N]		9.8 (1.0kgf)	19.6 (2.0kgf)	19.6 (2.0kgf)	19.6 (2.0kgf)	19.6 (2.0kgf)	19.6 (2.0kgf)
Max. Moment Capacity	Pitch [N·m]	0.03	0.35	0.35	0.35	0.35	0.35
	Roll [N·m]	0.05	0.4	0.4	0.4	0.35	0.35
Moment Stiffness	Roll [°/N·cm]	—	1.0	1.0	1.0	—	—
Parallelism [μm]		50	50	50	50	100	100
Weight [kg]		0.02	0.07	0.06	0.06	0.13	0.12

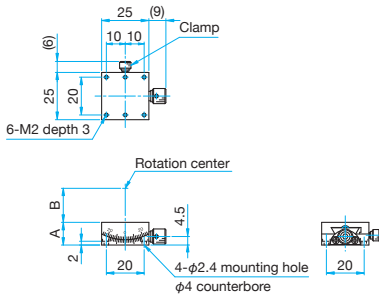


Outline Drawing

**GOH-15A10** Pan head screw M2x5...2 screws 2.5mm

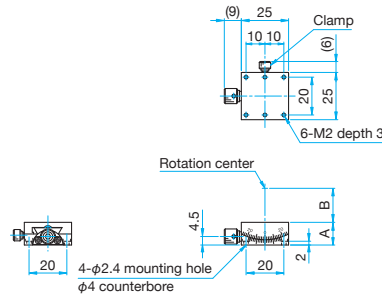


**GOH-25A\*\*** Pan head screw M2x4...4 screws 2.5mm



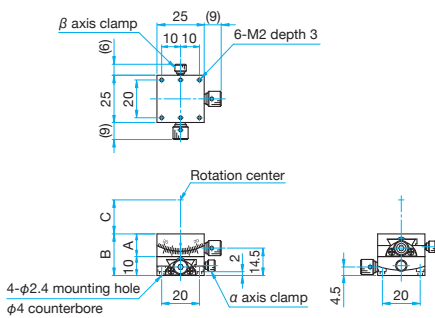
Part Number	A (mm)	B (mm)
GOH-25A18	12	18
GOH-25A30	10	30
GOH-25A40	10	40

**GOH-25A\*\*R** Pan head screw M2x4...4 screws 2.5mm



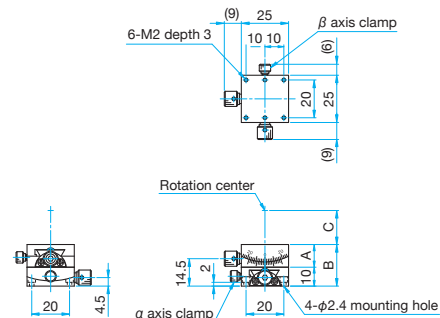
Part Number	A (mm)	B (mm)
GOH-25A18R	12	18
GOH-25A30R	10	30
GOH-25A40R	10	40

**GOH-25B\*\*** Pan head screw M2x4...4 screws



Part Number	A (mm)	B (mm)	C (mm)
GOH-25B18	12	22	18
GOH-25B30	10	20	30

**GOH-25B\*\*R** Pan head screw M2x4...4 screws



Part Number	A (mm)	B (mm)	C (mm)
GOH-25B18R	12	22	18
GOH-25B30R	10	20	30

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