

α Axis Goniometers $\alpha\beta$ Axis Goniometers

GOH-40A
GOH-40B

Stage Size 40 × 40 mm

RoHS

RoHS

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

- Vernier scales for reading angular position.
- Locking mechanism clamps dovetail to minimize movement.



Guide

- Vacuum-compatible stainless steel stages (GOHS-40A/40B) are also available.
 GOHS-40A (α axis) [Reference](#) E221 [Catalog Code](#) W7099
 GOHS-40B ($\alpha\beta$ axis) [Reference](#) E221 [Catalog Code](#) W7107

Attention

- Locking mechanism is operated using thumbscrew on side of stage.

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Crossed Roller

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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

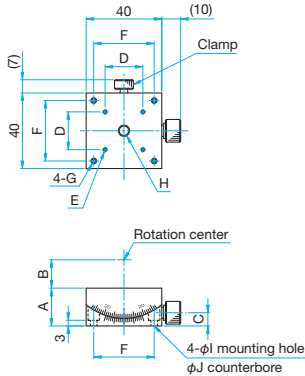
Part Number	METRIC	GOH-40A15	GOH-40A35	GOH-40A51	GOH-40B15	GOH-40B35
	INCH	GOH-40A15UU	GOH-40A35UU	GOH-40A51UU	GOH-40B15UU	GOH-40B35UU
(Opposite Model)	METRIC	GOH-40A15R	GOH-40A35R	GOH-40A51R	GOH-40B15R	GOH-40B35R
	INCH	GOH-40A15RUU	GOH-40A35RUU	GOH-40A51RUU	GOH-40B15RUU	GOH-40B35RUU
Stage Size [mm]		40×40	40×40	40×40	40×40	40×40
Axes of Travel		α axis			$\alpha\beta$ axis	
Rotation Center Height [mm]		15±0.1	35±0.1	51±0.1	15±0.1	35±0.1
Angle Range [°]	(Upper) β axis	—	—	—	±20	±20
	(Lower) α axis	±20	±20	±15	±20	±15
Vernier Readable Resolution		12'	12'	12'	12'	12'
Travel per Knob Rotation [°]	(Upper) β axis	—	—	—	about 2.83	about 1.74
	(Lower) α axis	about 2.83	about 1.74	about 1.27	about 1.74	about 1.27
Rotation Center Displacement [mm]		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]		68.7 (7.0kgf)	68.7 (7.0kgf)	68.7 (7.0kgf)	68.7 (7.0kgf)	68.7 (7.0kgf)
Max. Moment Capacity	Pitch [N·m]	0.9	0.9	0.9	0.9	0.9
	Roll [N·m]	1.2	1.2	1.2	0.9	0.9
Moment Stiffness		0.51	0.51	0.51	—	—
Parallelism [μm]		50	50	50	100	100
Weight [kg]		0.25	0.20	0.18	0.45	0.38



Outline Drawing

GOH-40A**/GOH-40A**UU

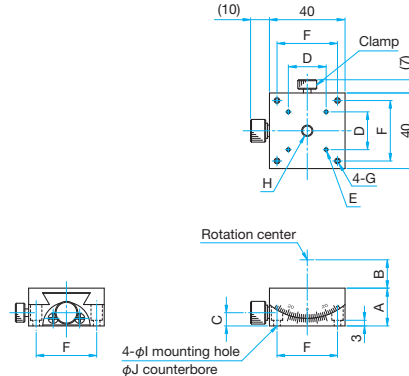
- Pan head screw M3×6...4 screws
 Pan head screw 6-32UNC×5/16...4 screws, Custom head (φ6×H2) (UU) 2.5mm



Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E	F (mm)	G	H	I (mm)	J (mm)
GOH-40A15	20	15	7	20	4-M2 depth 3	32	M3 depth 5	M6 P1 depth 6	φ3.5	φ6
GOH-40A35	16	35	7	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40A51	15	51	6.5	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40A15UU	20	15	7			31.75	6-32UNC depth 5	1/4-20UNC depth 6	φ4	φ6.5
GOH-40A35UU	16	35	7			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5
GOH-40A51UU	15	51	6.5			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5

GOH-40A**R/GOH-40A**RUU

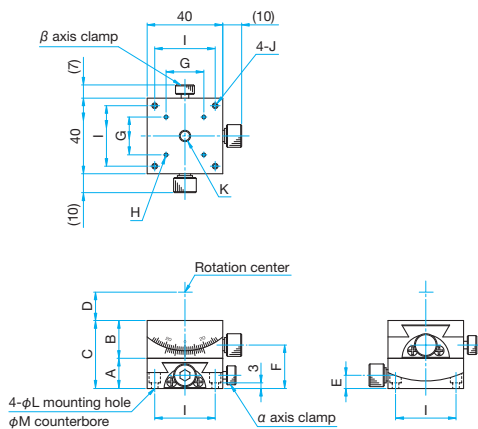
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Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E	F (mm)	G	H	I (mm)	J (mm)
GOH-40A15R	20	15	7	20	4-M2 depth 3	32	M3 depth 5	M6 P1 depth 6	φ3.5	φ6
GOH-40A35R	16	35	7	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40A51R	15	51	6.5	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40A15RUU	20	15	7			31.75	6-32UNC depth 5	1/4-20UNC depth 6	φ4	φ6.5
GOH-40A35RUU	16	35	7			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5
GOH-40A51RUU	15	51	6.5			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5

GOH-40B**/GOH-40B**UU

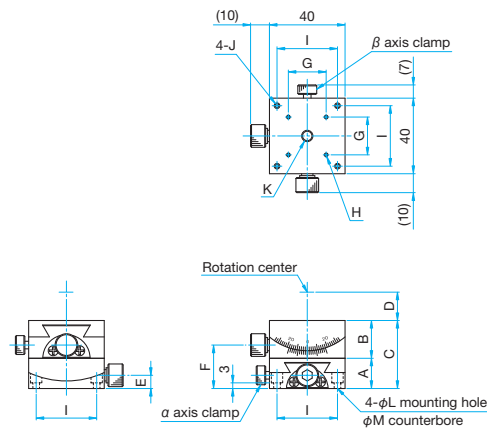
- Pan head screw M3×6...4 screws
 Pan head screw 6-32UNC×5/16...4 screws, Custom head (φ6×H2) (UU) 2.5mm



Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H	I (mm)	J	K	L (mm)	M (mm)
GOH-40B15	16	20	36	15	7	23	20	4-M2 depth 3	32	M3 depth 5	M6 P1 depth 6	φ3.5	φ6
GOH-40B35	15	16	31	35	6.5	22	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40B15UU	16	20	36	15	7	23			31.75	6-32UNC depth 5	1/4-20UNC depth 6	φ4	φ6.5
GOH-40B35UU	15	16	31	35	6.5	22			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5

GOH-40B**R/GOH-40B**RUU

- Pan head screw M3×6...4 screws
 Pan head screw 6-32UNC×5/16...4 screws, Custom head (φ6×H2) (UU) 2.5mm



Part Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H	I (mm)	J	K	L (mm)	M (mm)
GOH-40B15R	16	20	36	15	7	23	20	4-M2 depth 3	32	M3 depth 5	M6 P1 depth 6	φ3.5	φ6
GOH-40B35R	15	16	31	35	6.5	22	20	4-M2 depth 3	32	M3 depth 5	M4 depth 4	φ3.5	φ6
GOH-40B15RUU	16	20	36	15	7	23			31.75	6-32UNC depth 5	1/4-20UNC depth 6	φ4	φ6.5
GOH-40B35RUU	15	16	31	35	6.5	22			31.75	6-32UNC depth 5	8-32UNC depth 4	φ4	φ6.5

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