

## $\alpha\beta$ axis Goniometers

## $\alpha\beta$ axis Goniometers

**MGT12-60** Stage size 60mm  
**MGT12-120** Stage size 120mm

**RoHS**

Goniometers fitted with dovetail slide and worm gear, suitable for orientation adjustment (angle adjustment or correction).

### Stage 60mm



### Stage 120mm



### Guide

- ▶ The opposite model of MGT12-60 is also available.
- ▶ The vernier scale of MGT12-120 is located on the knob.

**SPEC UP**

Specifications				
Part Number		MGT12-60-50	MGT12-60-84	MGT12-120-182
Opposite Model		<b>NEW</b> MGT12-60-50R	<b>NEW</b> MGT12-60-84R	—
Table Size [mm]		60×60	60×60	120×120
Rotation Center Height [mm]		50±0.1	84±0.1	182
Angle Range [ ° ]	(Upper) $\beta$ axis	±20	±15	±5
	(Lower) $\alpha$ axis	±15	±10	±5
Vernier Readable Resolution		5'	5'	1'
Travel per Knob Rotation [ ° ]	(Upper) $\beta$ axis	about 1.03	about 0.71	about 0.33
	(Lower) $\alpha$ axis	about 0.7	about 0.58	about 0.33
Rotation Center Displacement [mm]		φ0.1 or less	φ0.1 or less	φ0.1 or less
Positioning Slide		Dovetail slide method	Dovetail slide method	Ball bearing method
Primary Material		Brass	Brass	Aluminum
Finish		Super black chrome	Super black chrome	Black anodized
Load Capacity [N]		98 (10.0kgf)	98 (10.0kgf)	294.0 (30.0kgf)
Max. Moment Capacity	Pitch [N·m]	1.6	1.6	19.6
	Roll [N·m]	1.6	1.6	19.6
Parallelism [μm]		100	100	200
Weight [kg]		1.9	1.75	4.2

Configuration				
Part Number		MGT12-60-50	MGT12-60-84	MGT12-120-182
(Upper) $\beta$ axis		MGT11-60-50	MGT11-60-84	MGT21-120-182
(Lower) $\alpha$ axis		MGT11-60-84	MGT11-60-115	MGT21-120-228
Opposite Model		<b>MGT12-60-50R</b>	<b>MGT12-60-84R</b>	
(Upper) $\beta$ axis		MGT11-60-50R	MGT11-60-84R	
(Lower) $\alpha$ axis		MGT11-60-84R	MGT11-60-115R	

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X Axis

XY Axis

Z Axis

XZ Axis

XYZ Axis

Rotation

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Multiaxis

Linear Guide

15mm

25mm

40mm

50mm

60mm

70mm

80mm

100mm

120mm

Others

