



α axis Goniometers
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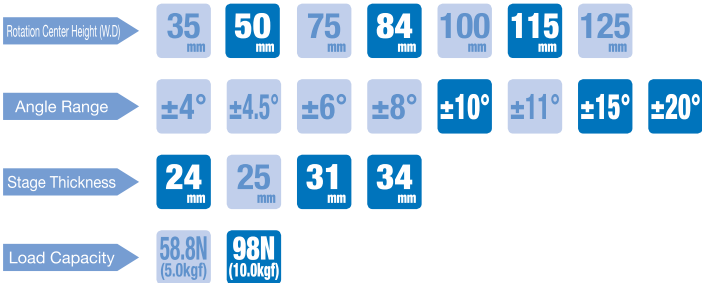
MGT11-60 Stage size □60mm
MGT11-120 Stage size □120mm

RoHS

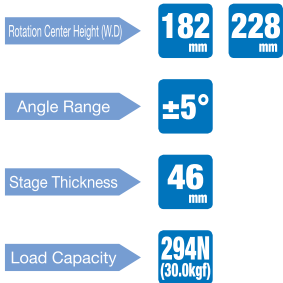
Goniometers used for orientation adjustment (correction) or sample adjustment.

- The goniometer of stage size □60mm (MGT1-60) uses worm gear for dovetail groove, ideal for orientation adjustment (angle adjustment or correction).
- The goniometer of stage size □120mm (MGT2-120) uses ball bearings, offering high stiffness and high precision.

■ Stage □60mm



■ Stage □120mm



Guide

- ▶ The opposite model of MGT11-60 is also available.
- ▶ The vernier scale of MGT1-120 is located on the knob.

Application Systems

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Multiaxis

Linear Guide

□15mm

□25mm

□40mm

□50mm

□60mm

□70mm

□80mm

□100mm

□120mm

Others

SPEC UP

Specifications						
Part Number		MGT11-60-50	MGT11-60-84	MGT11-60-115	MGT11-120-182	MGT11-120-228
Opposite Model		NEW MGT11-60-50R	NEW MGT11-60-84R	NEW MGT11-60-115R	—	—
Table Size [mm]		60×60	60×60	60×60	120×120	120×120
Rotation Center Height [mm]		50±0.1	84±0.1	115±0.1	182	228
Angle Range [°]		±20	±15	±10	±5	±5
Vernier Readable Resolution		5′	5′	5′	1′	1′
Travel per Knob Rotation [°]		about 1.03	about 0.71	about 0.58	about 0.33	about 0.33
Rotation Center Displacement [mm]		φ0.1 or less	φ0.1 or less	φ0.1 or less	φ0.05 or less	φ0.05 or less
Positioning Slide		Dovetail slide method	Dovetail slide method	Dovetail slide method	Ball bearing method	Ball bearing method
Primary Material		Brass	Brass	Brass	Aluminum	Aluminum
Finish		Super black chrome	Super black chrome	Super black chrome	Black anodized	Black anodized
Load Capacity [N]		98 (10.0kgf)	98 (10.0kgf)	98 (10.0kgf)	294 (30.0kgf)	294 (30.0kgf)
Max. Moment Capacity	Pitch [N·m]	1.6	1.6	1.6	19.6	19.6
	Roll [N·m]	2.2	2.2	2.2	44.1	44.1
Moment Stiffness	Roll [″/N·cm]	0.3	0.3	0.3	0.02	0.02
Parallelism [μm]		50	50	50	100	100
Weight [kg]		1.0	0.9	0.85	2.1	2.1

