

NEWαβ axis Extended Contact Ball Slide Goniometers | MGT32-40/50 Stage size □40/□50mm

RoHS

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A Parts

Measurement &Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

Hardened Steel linear stages with integrated bearing ways for superior stiffness, accuracy and durability.
Their smooth movement is ideal for frequent operations.

- Disc clamp improves the stability of clamping.
- Integral-guide structure offers high performance of rotation center displacement φ0.01mm.

Stage □40mm

Rotation Center Height (W.D.)

15mm20mm35mm40mm60mm

Angle Range

±8°±10°±20°

Stage Thickness

30mm31mm35mm36mm40mm

Load Capacity

58.8N(6.0kgf)68.7N(7.0kgf)

Stage □50mm

Rotation Center Height (W.D.)

50mm68mm

Angle Range

±8°±10°

Stage Thickness

36mm

Load Capacity

78.4N(8.0kgf)



Guide

► The MGT32-40 series allows selection of surface finishing.

Super Black Chrome Type
(Part number suffix B)

► Attachment pins (MGT32-40-P) can be purchased separately.
Reference G008

► Contact our International Sales Division if you desire a rotation center height not listed in the catalog.

X Axis	
XY Axis	
Z Axis	
XZ Axis	
XYZ Axis	
Rotation	
Goniometers /Tilt	
Multiaxis	
Linear Guide	
□15mm	
□25mm	
□40mm	
□50mm	
□60mm	
□70mm	
□80mm	
□100mm	
□120mm	
Others	

Specifications					
Part Number	NEW MGT32-40-20	NEW MGT32-40-40	NEW MGT32-40-60	NEW MGT32-50-50	NEW MGT32-50-68
Opposite Model	NEW MGT32-40-20R	NEW MGT32-40-40R	NEW MGT32-40-60R	NEW MGT32-50-50R	NEW MGT32-50-68R
Table Size [mm]	40×40	40×40	40×40	50×50	50×50
Rotation Center Height [mm]	20±0.2	40±0.2	60±0.2	50±0.2	68±0.2
Angle Range [°]	(Upper) β axis	±20	±10	±8	±10
	(Lower) α axis	±10	±8	±6	±8
Vernier Readable Resolution	0.1°	0.1°	0.1°	0.1°	0.1°
Travel per Knob Rotation [°]	(Upper) β axis	about 2.31	about 1.41	about 1.08	about 1.55
	(Lower) α axis	about 1.41	about 1.08	about 0.89	about 1.2
Positioning Slide	Extended contact ball guide	Extended contact ball guide	Extended contact ball guide	Extended contact ball guide	Extended contact ball guide
Primary Material	SUS440C quench hardened	SUS440C quench hardened	SUS440C quench hardened	SUS440C quench hardened	SUS440C quench hardened
Finish	Electroless nickel	Electroless nickel	Electroless nickel	Electroless nickel	Electroless nickel
Load Capacity [N]	58.8 (6.0kgf)	58.8 (6.0kgf)	58.8 (6.0kgf)	78.4 (8.0kgf)	78.4 (8.0kgf)
Max. Moment Capacity	Pitch [N·m]	2.0	2.0	2.0	2.5
	Roll [N·m]	2.0	2.0	2.0	2.5
	Yaw [N·m]	2.0	2.0	2.0	2.5
Parallelism [μm]	30	30	30	30	30
Weight [kg]	0.4	0.4	0.4	0.7	0.7

Configuration					
Part Number	MGT32-40-20	MGT32-40-40	MGT32-40-60	MGT32-50-50	MGT32-50-68
(Upper) β axis	MGT31-40-40	MGT31-40-40	MGT31-40-60	MGT31-50-86	MGT31-50-68
(Lower) α axis	MGT31-40-20	MGT31-40-60	MGT31-40-75	MGT31-50-68	MGT31-50-50
Opposite Model	MGT32-40-20R	MGT32-40-40R	MGT32-40-60R	MGT32-50-50R	MGT32-50-68R
(Upper) β axis	MGT31-40-40R	MGT31-40-40R	MGT31-40-60R	MGT31-50-86R	MGT31-50-68R
(Lower) α axis	MGT31-40-20R	MGT31-40-60R	MGT31-40-75R	MGT31-50-68R	MGT31-50-50R

