

Motorized Goniometers - 5 Phase Stepping Motor

MG-A Stage size □60mm

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

Piezo Stage

Precision Linear MS

High Speed MS

Motorized Goniometer

Motorized Rotation

Multiaxis Motorized

Industrial Robot

Controller & Driver & Cable

Custom-Built MS

Stepping motor driven motorized goniometer stages fitted with crossed roller guide.



- High stiffness goniometer stages fitted with excellent abrasion-resistant crossed roller guide.
- Rotation center height from the table face is selectable according to the usage from 75mm, 100mm or 130mm.

Guide

►After purchasing two α axis stages, to assemble them into an $\alpha\beta$ axis stage, assembly adjustment cost and performance inspection cost will be charged separately (10,000JP Yen).

Specifications				
Part Number		MG-60A75	MG-60A100	MG-60A130
Mechanical Specifications	Angle Range [°]	±7	±5	±4
	Table Size [mm]	60×60	60×60	60×60
	Positioning Slide	Crossed roller	Crossed roller	Crossed roller
	Travel Mechanism	Worm and worm wheel	Worm and worm wheel	Worm and worm wheel
	Stage Material	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized
	Weight [kg]	0.65	0.55	0.65
Size Tolerance	Stage Height [mm]	35	30	35
	Rotation Center Height [mm]	75	100	130
	Rotation Center Deflection Accuracy [mm]	φ0.05	φ0.05	φ0.05
Accuracy Specifications	Resolution	(Full) [°/pulse]	about 0.002	about 0.001
		(Half) [°/pulse]	about 0.001	about 0.0005
	MAX Speed [°/sec]		6	6
	Positional Repeatability [°]		±0.004	±0.004
	Load Capacity [N]		24.5 (2.5kgf)	24.5 (2.5kgf)
	Moment Stiffness [°/N·cm]		1	1
	Lost Motion [°]		0.02	0.02
Sensor	Sensor Part Number	Micro photo sensor: GP1S092HCPI (Sharp Corporation)		
	Limit Sensor	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
	Origin Sensor	None	None	None
	Proximity Origin Sensor	None	None	None

Motor / Sensor Specifications		
Motor	Type	5-phase stepping motor 0.75A/phase (Oriental Motor Co., Ltd.)
	Motor Part Number	C9863-90215P
	Step Angle	0.72°
Sensor	Power Voltage	DC5 – 24V
	Current Consumption	40mA or lower (20mA per sensor)
	Control Output	NPN open collector output 50mA
	Output Logic	When shaded: Output transistor OFF (no conduction)

Compatible Driver / Controller		
Control System	Compatible Driver	SD-5M, SD-55M, SD-514MSC, SD-5151, SD-525M
	Compatible Controller	ASC-PS,ASC-01, ASC-102,ASC-02, ASC-702, ASCG-101, ASC-302GS, ASC-304GS, ESC-M/ESC-S

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MG-A

Stage size □60mm

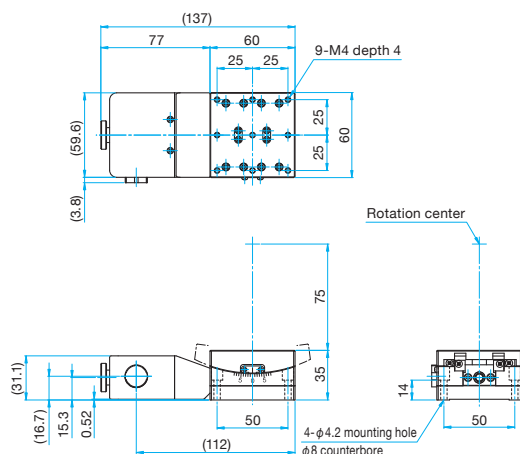
RoHS



Outline Drawing

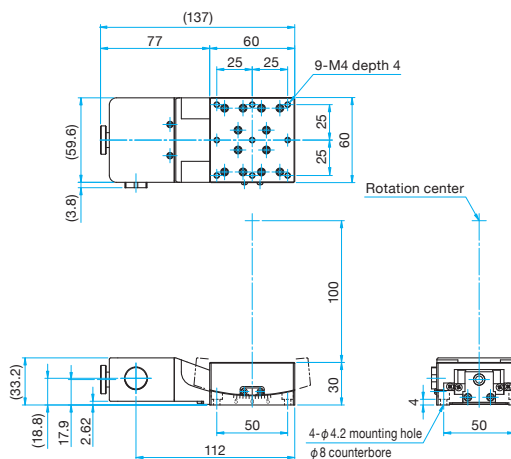
MG-60A75

Hexagonal socket head cap screw M4×18...4 screws



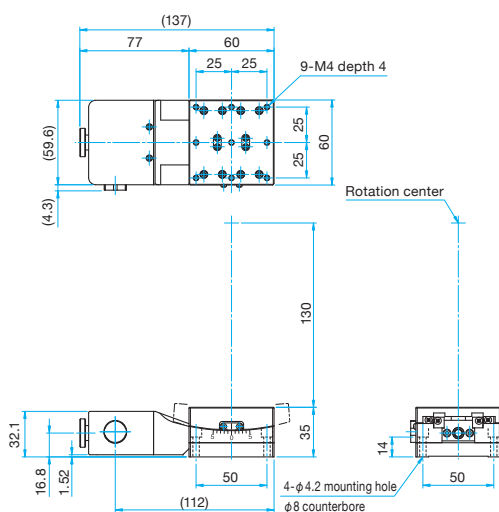
MG-60A100

Hexagonal socket head cap screw M4×8...4 screws

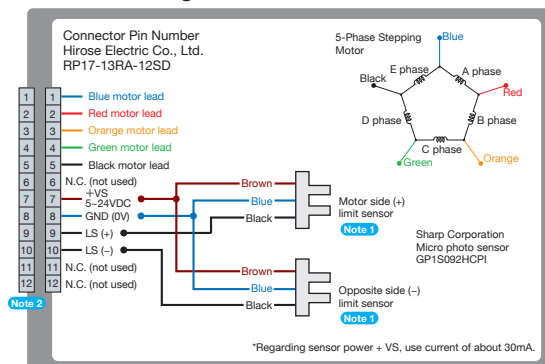


MG-60A130

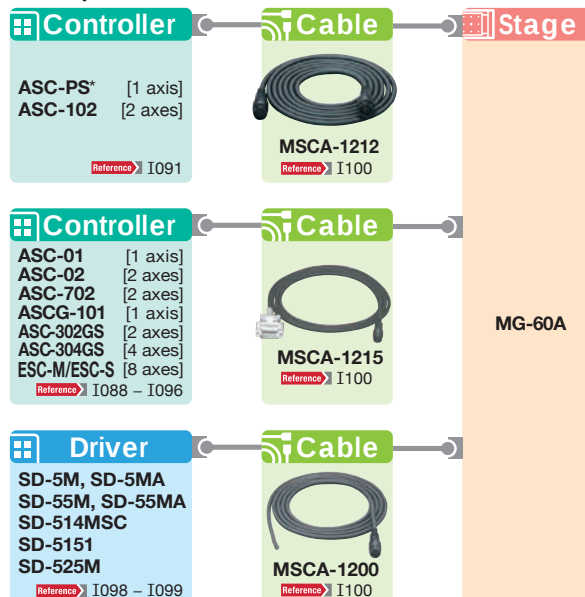
Hexagonal socket head cap screw M4×18...4 screws



Connection Diagram



Compatible Controllers / Drivers and Cables



* PASC-PS will be discontinued in September 2012, and will be replaced by ASC-01.

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