

Precision Motorized Stages with built in Glass-scale Encoder

PMS Stage size □60/□80mm



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

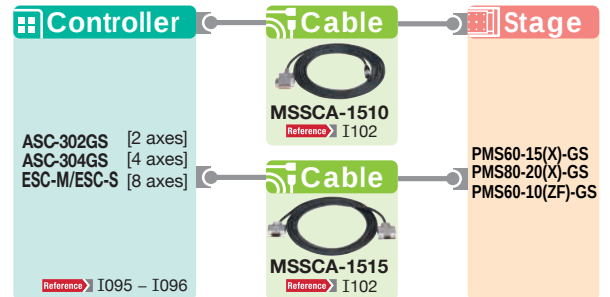
Industrial Robot

Controller & Driver & Cable

Custom-Built MS



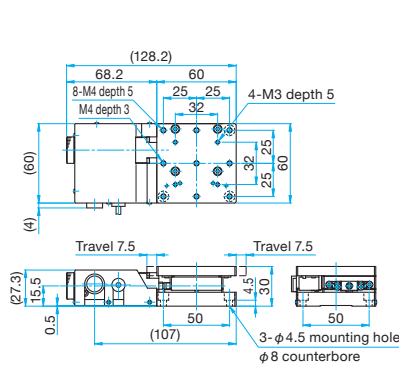
Compatible Controllers / Cables



Outline Drawing

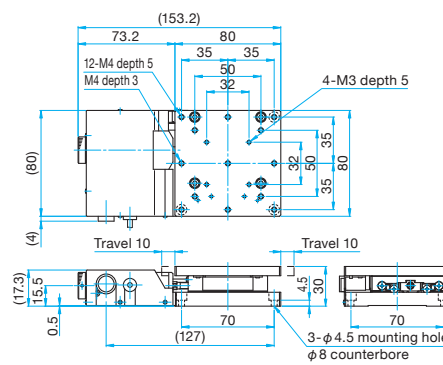
PMS60-15(X)-GS

Hexagonal socket head cap screw
M4×8...3 screws, M3×6...2 screws



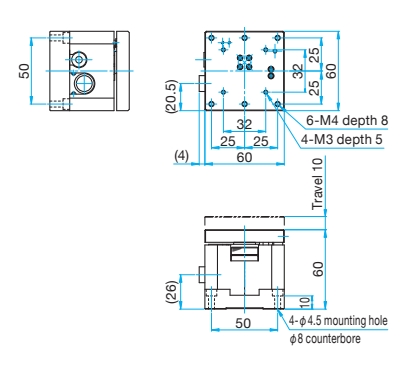
PMS80-20(X)-GS

Hexagonal socket head cap screw
M4×8...3 screws, M3×6...2 screws



PMS60-10(ZF)-GS

Hexagonal socket head cap screw
M4×15...4 screws, M3×6...2 screws



Specifications

Part Number		PMS60-15(X)-GS	PMS80-20(X)-GS	PMS60-10(ZF)-GS
Mechanical Specifications	Travel [mm]	15	20	10
	Table Size [mm]	60×60	80×80	60×60
	Feed Screw [mm]	Precision ground screw φ5mm, 0.5mm lead	Precision ground screw φ5mm, 0.5mm lead	Precision ground screw φ5mm, 0.5mm lead
	Guide	Extended Contact Ball Guide	Extended Contact Ball Guide	Extended Contact Ball Guide
	Stage Material	Steel	Steel	Steel
	Weight [kg]	0.8	1.1	0.7
Accuracy Specifications	Resolution	(Full) [μm/pulse]	1	1
		(Half) [μm/pulse]	0.5	0.5
	MAX Speed [mm/sec]	5	5	2
	Positioning Accuracy [μm]	5	5	2
	Positional Repeatability [μm]	0.5	0.5	0.5
	Load Capacity [N]	19.6 (2.0kgf)	29.4 (3.0kgf)	19.6 (2.0kgf)
	Moment Stiffness	Pitch [°/N·cm]	0.4	2
		Yaw [°/N·cm]	0.4	2
		Roll [°/N·cm]	0.4	—
	Lost Motion [μm]	0.5	0.5	0.5
	Backlash [μm]	10	10	5
	Parallelism [μm]	50	50	50
	Running Parallelism [μm]	10	10	—
	Perpendicularity of Motion [μm]	—	—	8
Sensor	Pitch [°] / Yaw [°]	15/15	15/15	15/—
	Sensor Part Number	GP1S092HCPI (Sharp Corporation)	PM-L24 (SUNX Co., Ltd.)	PM-F24 (SUNX Co., Ltd.)
	Limit Sensor	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
	Origin Sensor	None	None	None
Proximity Origin Sensor	Proximity Origin Sensor	None	None	None

Motor Specifications

Motor	Type	5-phase stepping motor 0.35A/phase (Oriental Motor Co., Ltd.)
	Motor Part Number	PK513PB-C9 (□20mm)
	Step Angle	0.72°

Compatible Controller

Compatible Controller	ASC-302GS, ASC-304GS, ESC-M/ESC-S
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