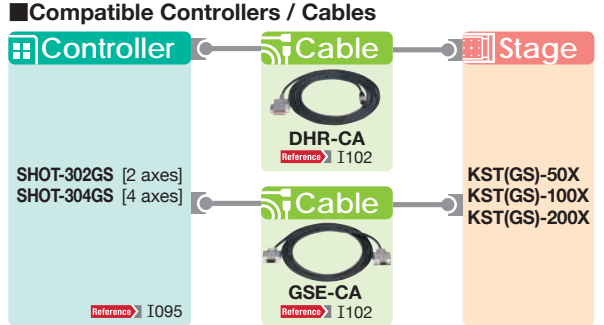


Precision Motorized Stages with built in Glass-scale Encoder

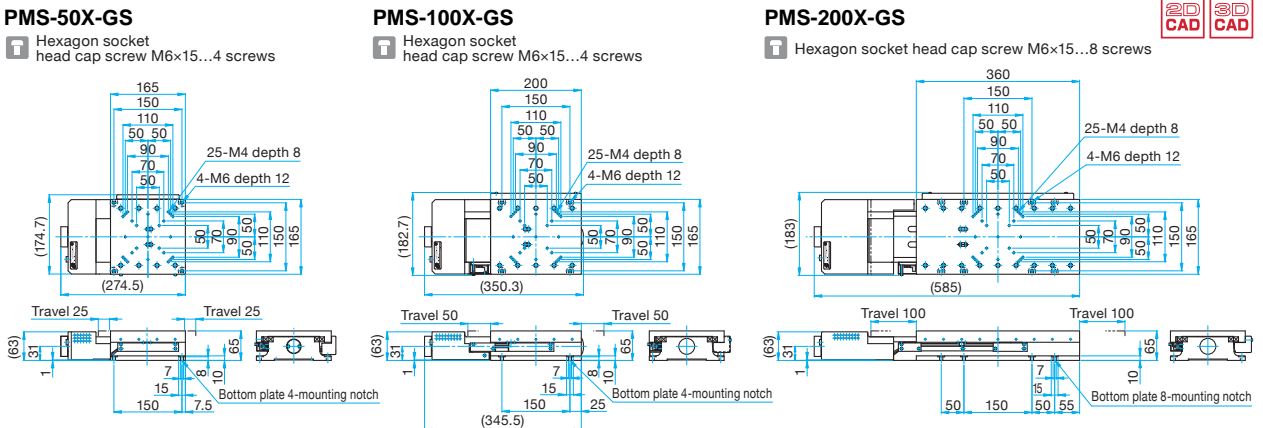
PMS



- Application Systems
- Machine Vision
- Manual Positions
- Motion Control Products**
- Optical & Mirror Holder
- FA Parts
- Measurement & Control
- FA Electrical Parts
- Tool & Measure
- Cleanroom & AntiStatic
- Index



Outline Drawing



Specifications

Part Number		PMS-50X-GS	PMS-100X-GS	PMS-200X-GS	
Mechanical Specifications	Travel [mm]	50	100	200	
	Table Size [mm]	165×165	165×200	165×360	
	Feed Screw [mm]	Ball screw diameter φ8mm, 1mm lead			
	Guide	Crossed roller guide			
	Stage Material	Steel			
	Weight [kg]	9.2	14.3	19.4	
Accuracy Specifications	Resolution	(Full) [μm/pulse]	2	2	4
		(Half) [μm/pulse]	1	1	2
	MAX Speed [mm/sec]	10	10	20	
	Positioning Accuracy [μm]	3	4	5	
	Positional Repeatability [μm]	0.5	0.5	0.8	
	Load Capacity [N]	392 (40.0kgf)			
	Moment Stiffness	Pitch [°/N·cm]	0.01	0.01	0.01
		Yaw [°/N·cm]	0.01	0.01	0.01
		Roll [°/N·cm]	0.005	0.005	0.005
	Lost Motion [μm]	0.5	0.5	0.5	
	Backlash [μm]	1	1	1	
	Parallelism [μm]	50	70	100	
Running Parallelism [μm]	10	10	20		
Pitch [°] / Yaw [°]	15/15	20/20	20/20		
Sensor	Sensor Part Number	Micro photo sensor: PM-L24 (SUNX Co., Ltd.); Limit sensor, origin sensor			
	Limit Sensor	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	
	Origin Sensor	None	None	None	
	Proximity Origin Sensor	None	None	None	

Motor Specifications

Motor	Type	5-phase stepping motor 1.4A/phase (Oriental Motor Co., Ltd.)		
	Motor Part Number	PK564-NBW (□60mm)	PK566-NBW (□60mm)	PK569-NBW (□60mm)
	Step Angle	0.72°		

Compatible Controller

Compatible Controller	ASC-302GS, ASC-304GS
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- Piezo Stage
- Precision Linear MS**
- High Speed MS
- Motorized Goniometer
- Motorized Rotation
- Multiaxis Motorized
- Industrial Robot
- Controller & Driver & Cable
- Custom-Built MS