

SGSP Series Translation Motorized Stages - 5 Phase Stepping Motor

SGSP26-(X) Stage size □80mm

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□40mm

□60mm

□70mm

□80mm Others Stepping motor driven stages, ideal for positioning of measuring instruments or inspection tools from which high stiffness and high precision are required.



 U-shaped rail offers light weight, and minimized deflection to achieve high stiffness.

Guide

- ► Contact our International Sales Division if you desire to change motors, etc. Reference 1019, 1085 (Question Sheet)
- ▶ Dust-proof cover reel and grease change are optionally available.

 Reference 1017, I018
- ▶ We will assemble your X axis stage with a newly purchased X axis stage at a separate cost.

Attention

► Two X axis stages cannot be assembled into an XY axis stage. A special mounting plate is required. Reference 1014

Specification	7113					
Part Number			SGSP26-50(X)	SGSP26-100(X)	SGSP26-150(X)	SGSP26-200(X)
Mechanical Specifications	Travel [mm]		50	100	150	200
	Table Size [mm]		80×80	80×80	80×80	80×80
	Feed Screw [mm]		Ball screw diameter φ8mm, 2mm lead	Ball screw diameter φ8mm, 2mm lead	Ball screw diameter φ8mm, 2mm lead	Ball screw diameter φ8mm 2mm lead
	Positioning Slide		Outer rail structure	Outer rail structure	Outer rail structure	Outer rail structure
	Stage Top Material		Aluminum	Aluminum	Aluminum	Aluminum
	Finish		Black anodized	Black anodized	Black anodized	Black anodized
	Weight [kg]		1.4	1.7	2.0	2.5
	Resolution	(Full) [µm/pulse]	4	4	4	4
		(Half) [µm/pulse]	2	2	2	2
	MAX Speed [mm/sec]		30	30	30	30
	Positioning Accuracy [µm]		5	10	15	15
	Positional Repeatability [µm]		3	3	6	6
	Load Capacity [N]		117 (12.0kgf)	117 (12.0kgf)	117 (12.0kgf)	117 (12.0kgf)
Accuracy	Moment Stiffness	Pitch ["/N·cm]	0.23	0.23	0.23	0.23
Specifications		Yaw ["/N·cm]	0.12	0.12	0.12	0.12
		Roll ["/N·cm]	0.2	0.2	0.2	0.2
	Lost Motion [µm]		3	3	5	5
	Backlash [µm]		3	3	3	3
	Parallelism [µm]		50	50	50	50
	Running Parallelism [µm]		10	10	10	10
	Pitch ["] / Yaw ["]		25/20	25/20	25/20	30/25
Sensor	Sensor Part Number		Micro photo sensor: PM-L24 (SUNX Co., Ltd.)			
	Limit Sensor		Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
	Origin Sensor		None	None	None	None
	Proximity Origin Sensor		None	None	None	None

Motor / Sensor Specifications					
Motor	Туре	5-phase stepping motor 0.75A/phase (Oriental Motor Co., Ltd.)			
	Motor Part Number	C9863-90215P (□28mm)			
	Step Angle	0.72°			
Sensor	Power Voltage	DC5 – 24V ±10%			
	Current Consumption	30mA or lower (15mA or lower per sensor)			
	Control Output	NPN open collector output DC30V or lower, 50mA or lower			
	Output Logic	When shaded: Output transistor OFF (no conduction)			

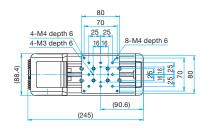
Compatible Driver / Controller						
Control System	Compatible Driver	SG-5M, SG-5MA, SG-55MA, SG-514MSC, SG-5151, KR-525M				
	Compatible Controller	PAT-001, GSC-01, SHOT-102, GSC-02, SHOT-702, GIP-101, SHOT-302GS, SHOT-304GS, HIT-M/HIT-S				

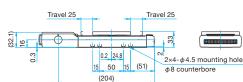




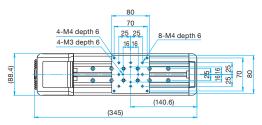


Outline Drawing

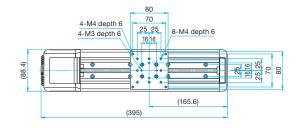


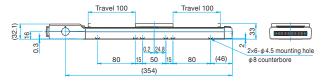




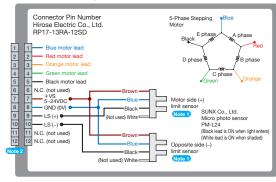








■Connection Diagram

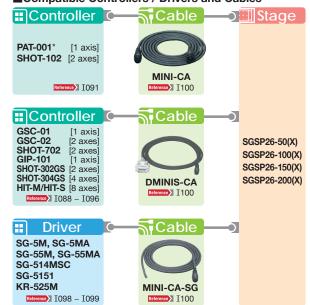


Note 1 The motor side limit sensor is the + direction limit sensor. Motorized stages are not fitted with origin and proximity origin sensors. Limit sensors are used as origin detection sensors.

Note 2 Compatible cable connector:

Compatible cable connector: Hirose Electric Co., Ltd. RP17-13PA-12PC/RP17-PC-122

■Compatible Controllers / Drivers and Cables



 * PAT-001 will be discontinued in September 2012, and will be replaced by GSC-01.

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