

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



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

Guide

- ▶ Contact our Sales Division if you desire to change motors, etc.
[Reference](#) G017, G123 (Motorized Stage System Question Sheet)
[WEB Reference](#) [Catalog Code](#) W9500
- ▶ Grease change is optionally available.
[Reference](#) G122 [WEB Reference](#) [Catalog Code](#) W9006
- ▶ We will assemble your X axis stage with a newly purchased X axis stage at a separate cost

Specifications					
Part Number		OSMS26-50(Z)	OSMS26-100(Z)	OSMS26-200(Z)	OSMS26-300(Z)
Part Number (-M6)		OSMS26-50(Z)-M6	OSMS26-100(Z)-M6	OSMS26-200(Z)-M6	OSMS26-300(Z)-M6
Part Number (-INCH)		OSMS26-50(Z)-INCH	OSMS26-100(Z)-INCH	OSMS26-200(Z)-INCH	OSMS26-300(Z)-INCH
Mechanical Specifications	Travel [mm]	50	100	200	300
	Stage Size [mm] (M6, INCH)	100×100 (120×120)	100×100 (120×120)	100×100 (120×120)	100×100 (120×120)
	Feed Screw	Ball screw diameter $\phi 8$ mm, 2mm lead	Ball screw diameter $\phi 8$ mm, 2mm lead	Ball screw diameter $\phi 8$ mm, 2mm lead	Ball screw diameter $\phi 8$ mm, 2mm lead
	Positioning Slide	Outer rail structure	Outer rail structure	Outer rail structure	Outer rail structure
	Stage Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black anodized	Black anodized	Black anodized	Black anodized
	Weight [kg]	4.4	4.9	7.2	7.4
Accuracy Specifications	Resolution	(Full) [μ m/pulse]	4	4	4
		(Half) [μ m/pulse]	2	2	2
	MAX Speed [mm/sec]		10	10	10
	Positioning Accuracy [μ m]		15	20	30
	Positional Repeatability [μ m]		3	3	6
	Load Capacity [N]		39.2 (4.0kgf)	39.2 (4.0kgf)	39.2 (4.0kgf)
	Moment Stiffness	Pitch [$^{\circ}$ /N·cm]	0.4	0.4	0.4
		Yaw [$^{\circ}$ /N·cm]	0.15	0.15	0.15
		Roll [$^{\circ}$ /N·cm]	0.20	0.20	0.20
	Lost Motion [μ m]		3	3	5
	Backlash [μ m]		3	3	3
	Orthogonality of Motion [μ m]		30	40	50
	Pitch [$^{\circ}$] / Yaw [$^{\circ}$]		50/20	50/20	55/20
Sensor	Sensor Part Number				
	Micro photo sensor: GP1S092HCPIF (Sharp Corporation)				
	Limit Sensor	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
	Origin Sensor	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)
	Proximity Origin Sensor	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)	Equipped (NORMAL OPEN)

Motor / Sensor Specifications

Motor	Type	5-phase stepping motor 0.75A/phase (Oriental Motor Co., Ltd.)
	Motor Part Number	PK525HPB-C4 (□28mm)
	Step Angle	0.72°
Sensor	Power Voltage	DC5 ~ 24V $\pm$ 10%
	Current Consumption	80mA or lower (20mA 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) : Limit Sensor When shaded: Output transistor ON (conduction): Origin sensor, Proximity Origin Sensor

Compatible Driver / Controller

Control System	Compatible Driver	SG-5M, SG-5MA, MC-S0514ZU, SG-514MSC, MC-7514PCL
	Compatible Controller	GSC-01, GSC-02, SHOT-702, GIP-101, HSC-103, SHOT-302GS, SHOT-304GS, HIT-M-HIT-S, PGC-04-U

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Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

85 × 85 mm

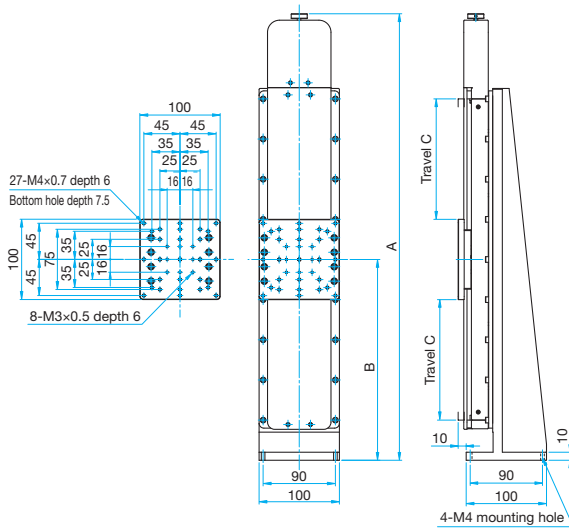
100 × 100 mm

120 × 120 mm

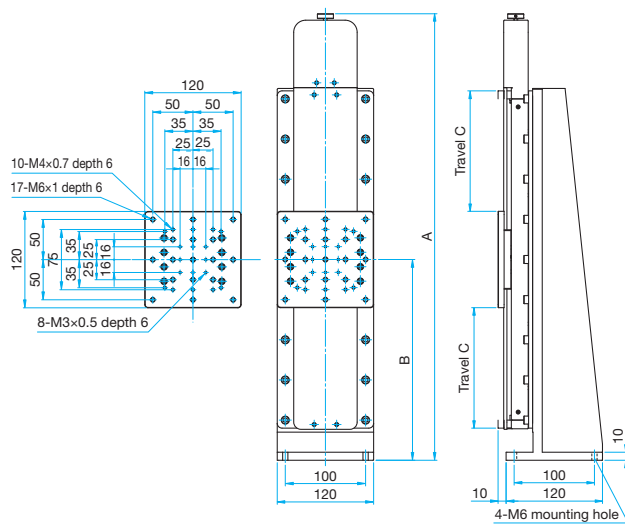
Others



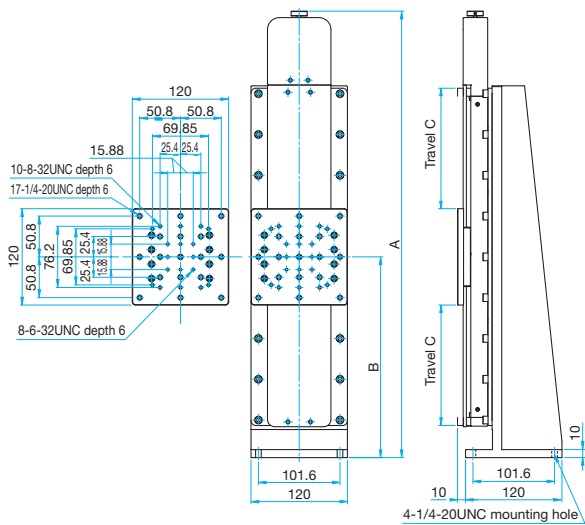
Outline Drawing

OSMS26-*(Z) Hexagon socket head cap screw M4x15...4 screws


Part Number	A	B	C
OSMS26-50(Z)	306	125	25
OSMS26-100(Z)	356	150	50
OSMS26-200(Z)	463	200	100
OSMS26-300(Z)	556	250	150

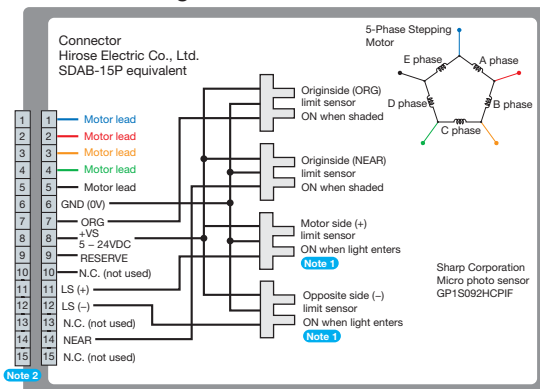
OSMS26-*(Z)-M6 Hexagon socket head cap screw M6x15...4 screws


Part Number	A	B	C
OSMS26-50(Z)-M6	306	125	25
OSMS26-100(Z)-M6	356	150	50
OSMS26-200(Z)-M6	463	200	100
OSMS26-300(Z)-M6	556	250	150

OSMS26-*(Z)-INCH Hexagon socket head cap screw 1/4-20UNCx5/8...4 screws


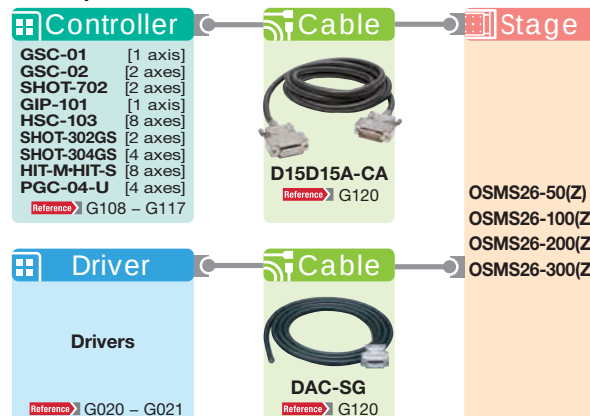
Part Number	A	B	C
OSMS26-50(Z)-INCH	305.6	124.6	25
OSMS26-100(Z)-INCH	356	150	50
OSMS26-200(Z)-INCH	463	199.2	100
OSMS26-300(Z)-INCH	556	250	150

■ Connection Diagram


Note 1 The motor side limit sensor is the + direction limit sensor.

Note 2 Compatible cable connector: DDK Ltd. 17JE-13150

■ Compatible Controllers / Drivers and Cables



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