

ATMS Series Translation Motorized Stages - 5 Phase Stepping Motor

ATMS26-(Z) Stage size □80mm

RoHS

CE

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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

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](#) I019, I085 (Question Sheet)
- Dust-proof cover reel and grease change are optionally available. [Reference](#) I017, I018

Attention

- After purchasing an X axis stage, to combine it with a Z axis stage, assembly adjustment cost and performance inspection cost will be charged separately.

Specifications

Part Number		ATMS26-50(Z)	ATMS26-100(Z)	ATMS26-150(Z)	ATMS26-200(Z)
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]	2.5	3.1	3.5	4
Accuracy Specifications	Resolution	(Full) [μm/pulse]	4	4	4
		(Half) [μm/pulse]	2	2	2
	MAX Speed [mm/sec]	15	15	15	15
	Positioning Accuracy [μm]	15	20	25	30
	Positional Repeatability [μm]	3	3	6	6
	Load Capacity [N]	39.2 (4.0kgf)	39.2 (4.0kgf)	39.2 (4.0kgf)	39.2 (4.0kgf)
	Moment Stiffness	Pitch [°/N·cm]	0.4	0.4	0.4
		Yaw [°/N·cm]	0.15	0.15	0.15
		Roll [°/N·cm]	0.20	0.20	0.20
	Lost Motion [μm]	3	3	5	5
	Backlash [μm]	3	3	3	3
	Perpendicularity of Motion [μm]	30	40	40	50
Sensor	Pitch [°] / Yaw [°]	50/20	50/20	55/20	55/20
	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	Type	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	SD-5M, SD-5MA, SD-55M, SD-55MA, 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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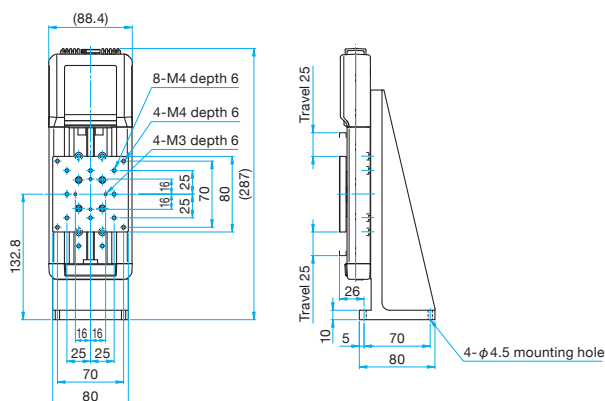
RoHS

CE

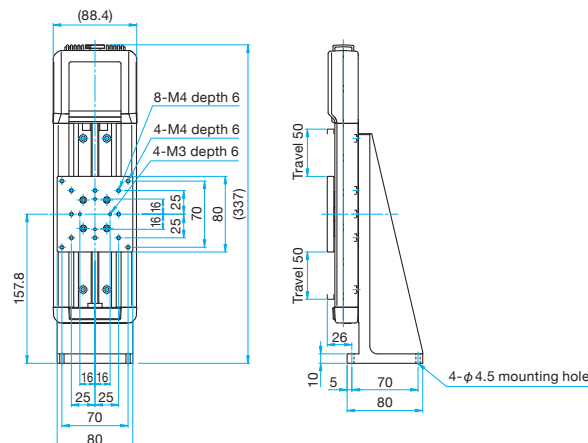


Outline Drawing

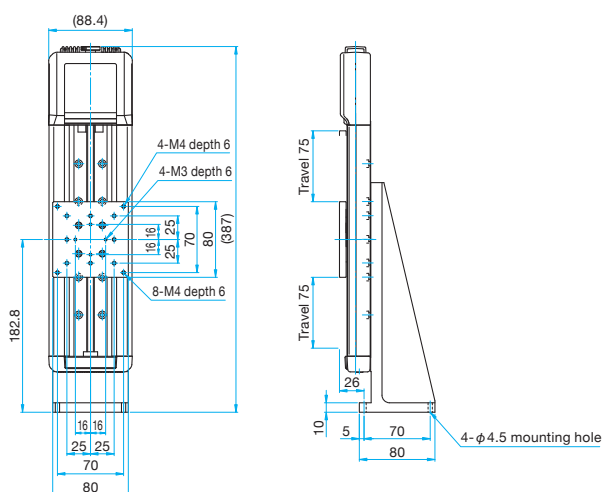
ATMS26-50(Z) Hexagonal socket head cap screw M4×15...4 screws



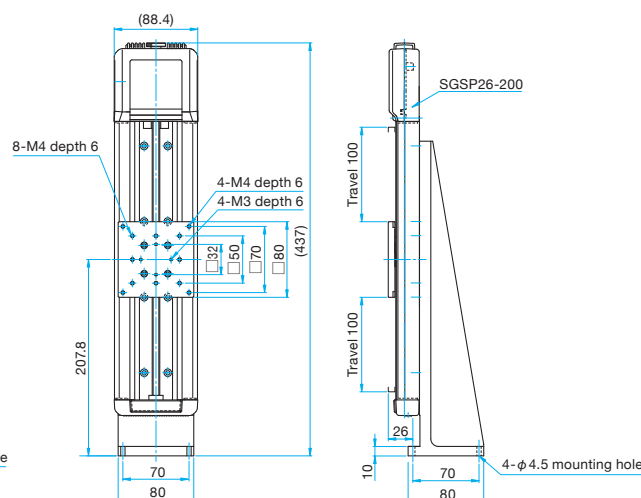
ATMS26-100(Z) Hexagonal socket head cap screw M4×15...4 screws



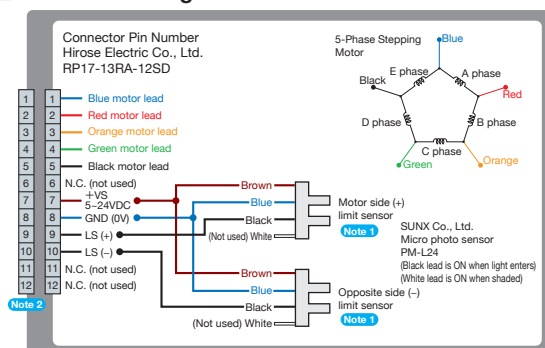
ATMS26-150(Z) Hexagonal socket head cap screw M4×15...4 screws



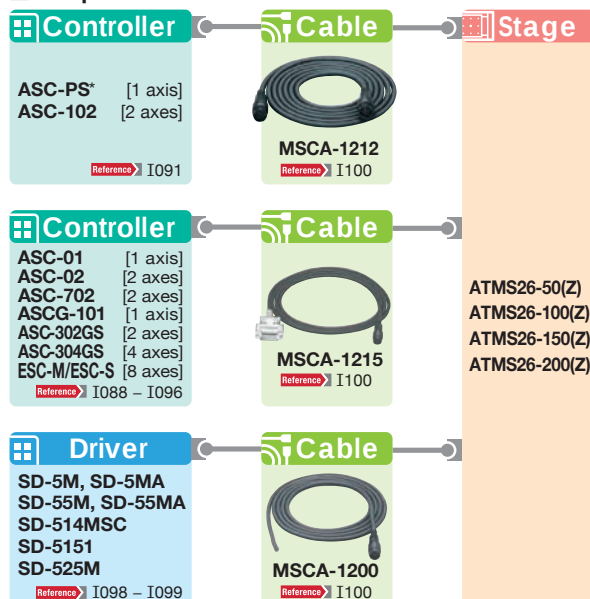
ATMS26-200(Z) Hexagonal socket head cap screw M4×15...4 screws



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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