

ATMS Series Translation Motorized Stages - 5 Phase Stepping Motor | **ATMS26-(XY)** Stage size □80mm



Application Systems

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

Specifications					
Part Number		ATMS26-50(XY)	ATMS26-100(XY)	ATMS26-150(XY)	ATMS26-200(XY)
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]	2.8	3.4	4	5
Accuracy Specifications	Resolution	(Full) [μm/pulse]	4	4	4
		(Half) [μm/pulse]	2	2	2
	MAX Speed [mm/sec]	30	30	30	30
	Load Capacity [N]	98 (10.0kgf)	98 (10.0kgf)	98 (10.0kgf)	98 (10.0kgf)
	Backlash [μm]	3	3	3	3
	Orthogonality of Motion [μm]	5	5	5	10
Sensor	Sensor Part Number				
	Limit Sensor	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
	Origin Sensor	None	None	None	None
	Proximity Origin Sensor				
	Micro photo sensor: PM-L24 (SUNX Co., Ltd.)				

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)	

(Reference) Precision Specifications of Single Axis Stage					
Part Number		ATMS26-50(X)	ATMS26-100(X)	ATMS26-150(X)	ATMS26-200(X)
Accuracy Specifications	Positioning Accuracy [μm]		5	10	15
	Positional Repeatability [μm]		3	3	6
	Moment Stiffness	Pitch [°/N·cm]	0.23	0.23	0.23
		Yaw [°/N·cm]	0.12	0.12	0.12
		Roll [°/N·cm]	0.2	0.2	0.2
	Lost Motion [μm]		3	3	5
	Parallelism [μm]		50	50	50
	Running Parallelism [μm]		10	10	10

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

ATMS Series Translation Motorized Stages - 5 Phase Stepping Motor **ATMS26-(XY)** Stage size ☐ 80mm

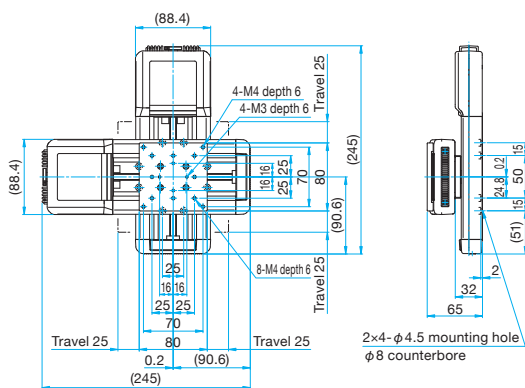
RoHS

CE

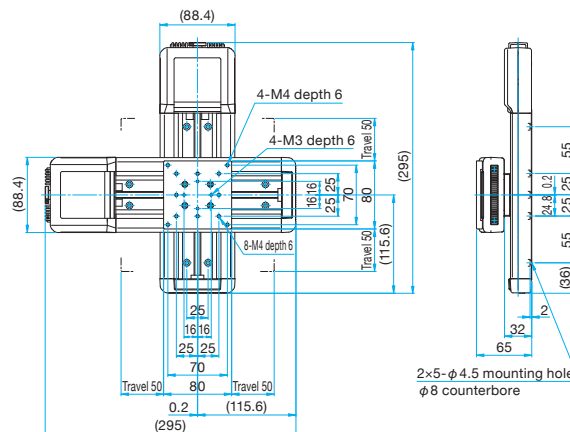


Outline Drawing

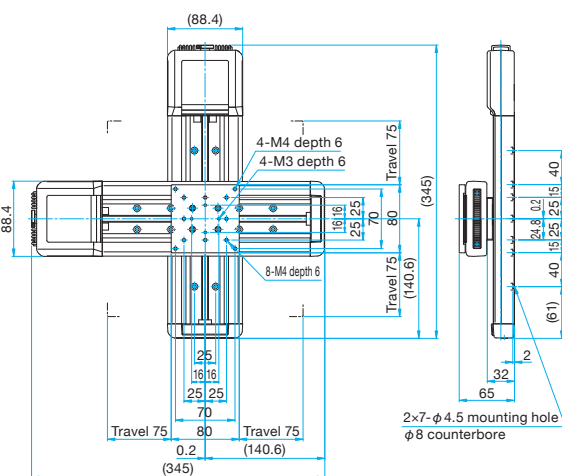
ATMS26-50(XY) Hexagonal socket head cap screw M4x8...6 screws



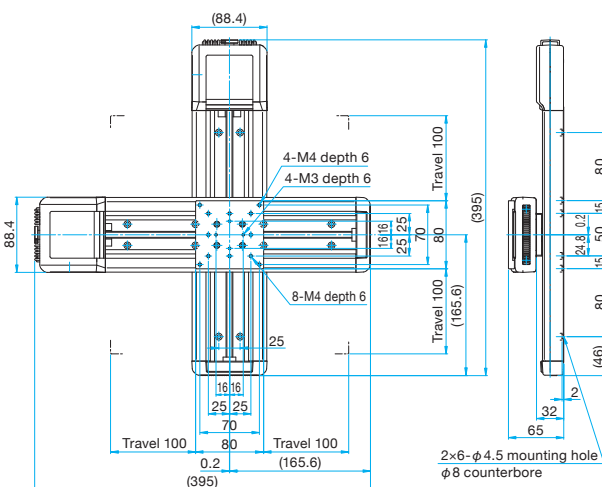
ATMS26-100(XY) Hexagonal socket head cap screw M4×8...6 screws



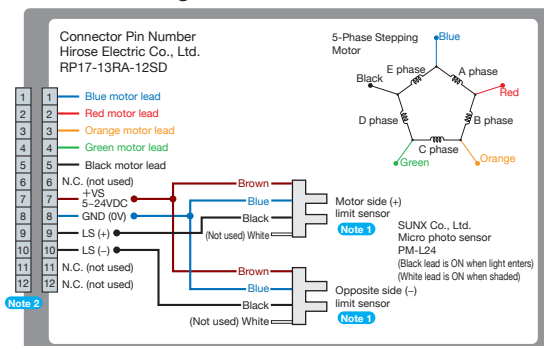
ATMS26-150(XY) Hexagonal socket head cap screw M4×8...6 screws



ATMS26-200(XY) Hexagonal socket head cap screw M4x8...8 screws



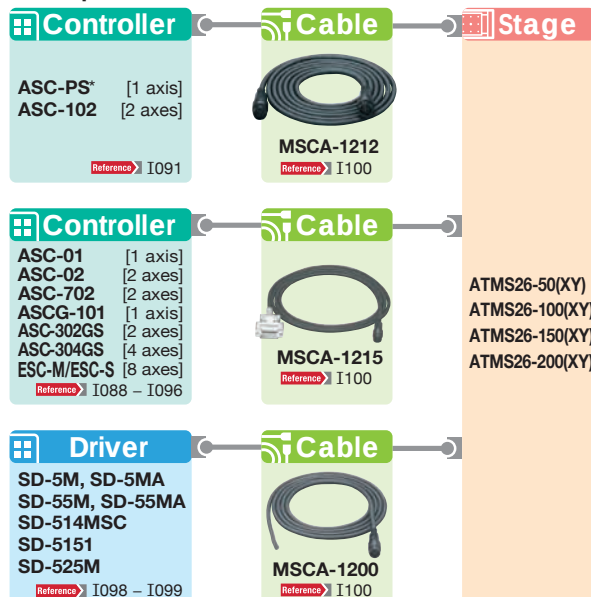
■ Connection Diagram



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

■Compatible Controllers / Drivers and Cables



* PASC-PS will be discontinued in September 2012, and will be replaced by ASC-01.

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