

NEW Vacuum Compatible Motorized Stages

VCMS

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

Motorized stages fitted with a limit sensor compatible with vacuum environments.

- Linear system has a long travel between 35 – 200mm, and is as compact as the conventional SGSP series.
- Rotation stages are low-profile, but offer high load capacity due to □42mm motor.



Guide

► Motor cables and sensor cables are 1m bare wires.

Specifications					
Part Number		NEW VCMS20-35(X)	NEW VCMS20-85(X)	NEW VCMS26-200(X)	
Mechanical Specifications	Travel or Rotation Range	35mm	85mm	200mm	
	Table Size [mm]	60×60	60×60	80×80	
	Feed Screw [mm]	Ball screw diameter φ6mm, 1mm lead	Ball screw diameter φ 6mm, 1mm lead	Ball screw diameter φ8mm, 2mm lead	
	Positioning Slide	Outer rail structure	Outer rail structure	Outer rail structure	
	Stage Material	Aluminum / Stainless steel	Aluminum / Stainless steel	Aluminum / Stainless steel	
	Finish	None	None	None	
	Weight [kg]	1.0	1.1	2.5	
Accuracy Specifications	Resolution	(Full)	2μm	2μm	4μm
		(Half)	1μm	1μm	2μm
	MAX Speed	10mm/sec	10mm/sec	20mm/sec	
	Positional Repeatability	5μm	5μm	10μm	
	Load Capacity [N]	39.2 (4.0kgf)	39.2 (4.0kgf)	58.8 (6.0kgf)	
Lost Motion	3μm	3μm	10μm		
Sensor	Sensor Part Number	GN-PT5M3B-1 (Metrol Co., Ltd.)	GN-PT5M3B-1 (Metrol Co., Ltd.)	GN-PT5M3B-1 (Metrol Co., Ltd.)	
	Limit Sensor	Vacuum touch sensor (NORMAL CLOSE)	Vacuum touch sensor (NORMAL CLOSE)	Vacuum touch sensor (NORMAL CLOSE)	
	Origin Sensor	None	None	None	
	Proximity Origin Sensor	None	None	None	

Motor / Sensor Specifications				
Motor	Type	Vacuum compatible 5-phase stepping motor 0.75A/phase (Oriental Motor Co., Ltd.)		
	Motor Part Number	A7298-90215KV (□28mm)	A7298-90215KV (□28mm)	A7298-90215KV (□28mm)
	Step Angle	0.72°		
Sensor	Power Voltage	DC5 – 24V		
	Current Consumption	10mA (Max 20mA)		
	Control Output	Mechanical		
	Output Logic	NORMAL CLOSE	NORMAL CLOSE	NORMAL CLOSE

Compatible Driver / Controller		
Control System	Compatible Driver	SD-5M, SD-55M, 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

- Piezo Stage
- Precision Linear MS**
- High Speed MS
- Motorized Goniometer
- Motorized Rotation
- Multiaxis Motorized
- Industrial Robot
- Controller & Driver & Cable
- Custom-Built MS

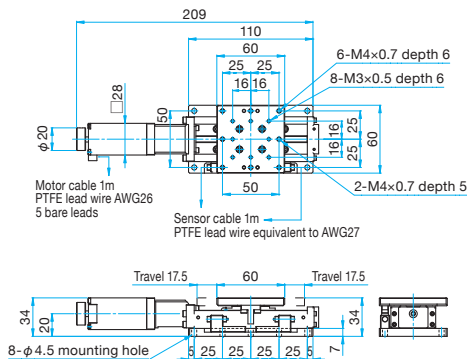
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VCMS

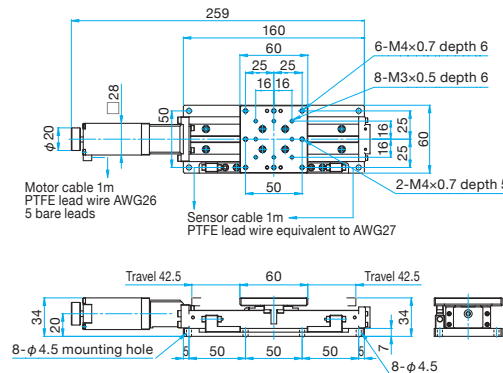


Outline Drawing

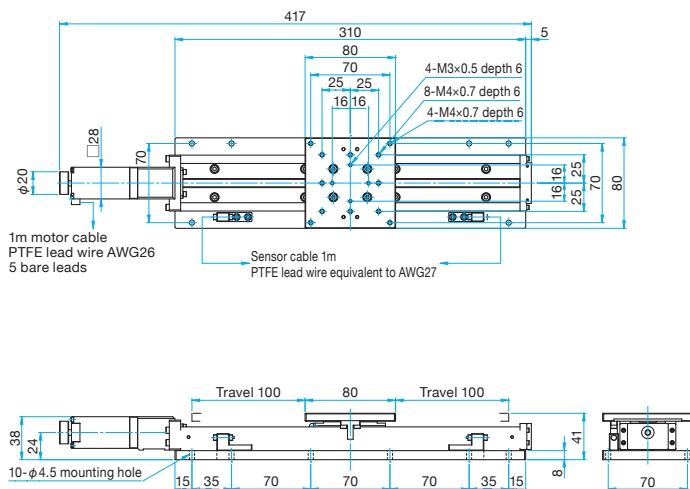
VCMS20-35(X) Hexagonal socket head cap screw M4x12...4 screws



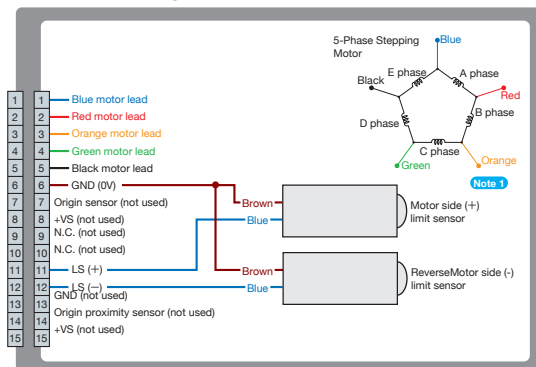
VCMS20-85(X) Hexagonal socket head cap screw M4x12...4 screws



VCMS26-200(X) Hexagonal socket head cap screw M4x12...8 screws

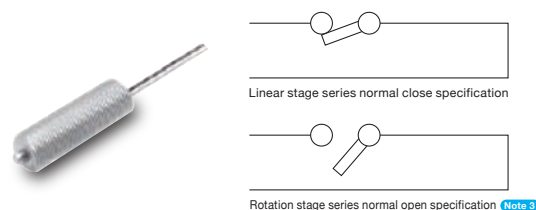


Connection Diagram



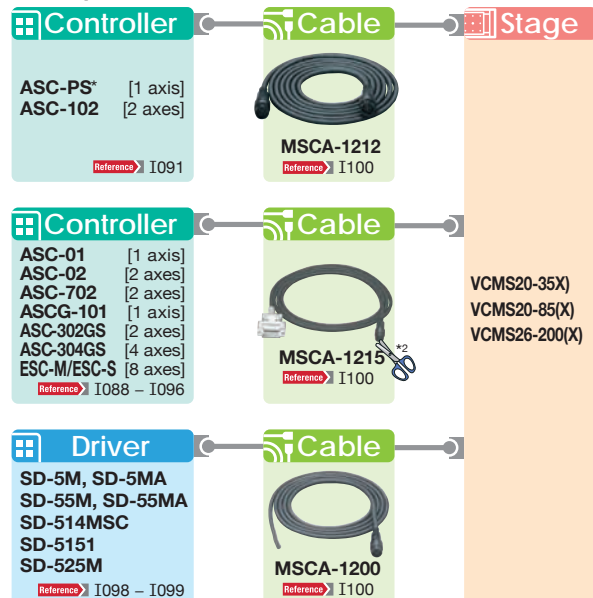
Note 1 Rotation stages are not fitted with a + limit sensor.
Note 2 Motor cables and sensor cables are bare wires.

Limit Sensor (high vacuum compatible switch)



Note 3 Set the controller of vacuum compatible motorized rotation stages to normal open.

Compatible Controllers / Drivers and Cables



* PASC-PS will be discontinued in September 2012, and will be replaced by ASC-01.
 *2 Make the cable into bare wire specification after purchase.

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