VCMS

NEW Vacuum Compatible Motorized Stages

Application Systems

Machine Vision

Manual **Positions**

Motion Control Products

Optical & Mirror Holder

FA Parts

Measurement &Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

Index

Piezo Stage

Precision Linear MS High Speed MS

Motorized Gonimeter

Multiaxis Motorized

Industrial Robot

Controller & Driver & Cable

Custom-Built MS

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

▶ Rotation Range Minus limit sensor: -2.5° Counterclockwise CCW direction to ∞ Clockwise CW direction Stops at near 0° (-2.5°)

- ▶ Homing of rotation motorized stages is performed using the CW limit sensor as the origin sensor.
- ▶ Origin detection is adjusted so that the stage stops at 0 degree when homing is performed in the MINI system at half step.

Specification	ons		
Part Number			NEW/VCMS-120YAW
Mechanical Specifications	Travel or Rotation Range		Counterclockwise CCW direction to ∞, Clockwise CW direction stops at near 0 degree (-2.5°)
	Table Size [mm]		φ120
	Feed Screw [mm]		Worm and worm wheel
	Positioning Slide		Crossed roller
	Stage Material		Aluminum / Stainless steel
	Finish		None
	Weight [kg]		1.7
	Resolution	(Full)	0.005°
		(Half)	0.0025°
Accuracy	MAX Speed		20°/sec
Specifications	Positional Repeatability		0.02°
	Load Capacity [N]		98.0 (10.0kgf)
	Lost Motion		0.05°
Sensor	Sensor Part Number		GN-STM35A-1 (Metrol Co., Ltd.)
	Limit Sensor		Vacuum touch sensor (NORMAL OPEN)
	Origin Sensor		None
	Proximity Origin Sensor		None

Motor / Sensor Specifications					
Motor	Туре	Vacuum compatible 5-phase stepping motor 0.75A/phase (Oriental Motor Co., Ltd.)			
	Motor Part Number	PK543V-NB (□42mm)			
	Step Angle	0.72°			
Sensor	Power Voltage	DC5 – 24V			
	Current Consumption	10mA (Max 20mA)			
	Control Output	Mechanical			
	Output Logic	NORMAL OPEN			

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				

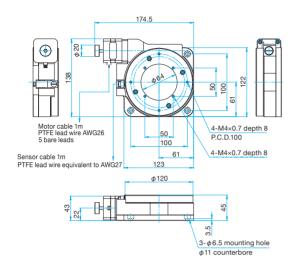
VCMS

NEW Vacuum Compatible Motorized Stages

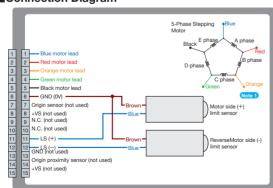
|3D |CAD

Outline Drawing

Hexagon socket head cap screw M6×10...3 screws VCMS-120YAW

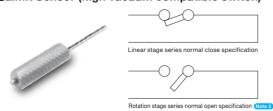


■Connection Diagram



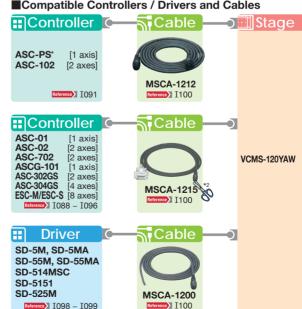
Rotation stages are not fitted with a + limit sensor. Motor cables and sensor cables are bare wires.

■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.

Application Systems

Machine Vision

Manual **Positions**

Motion Control **Products**

Optical & Mirror Holder

FA Parts

Measurement &Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatio

Index

Piezo Stage

Precision Linear MS

High Speed MS

Motorized Gonimeter

Multiaxis Motorized

Industrial Robot

Controller & Driver & Cable

Custom-Built MS