# HOURS

# Rotation Motorized Stages

RoHS CE

## Stepping motor driven rotation stages fitted with bearing guide and worm gear feed mechanism.

ARMS

## 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

#### Motorized Rotation

Multiaxis Motorized

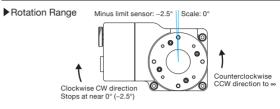
Industrial Robot Controller & Driver & Cable

Custom-Built MS



• Motorized stages suitable for positioning for measuring, inspection and evaluation instruments.

### Guide



- 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.

## Attention

- Attention is required when mounting in upside down orientation or on a vertical plane.
- Precision and load capacity specifications may be partly not satisfied depending on the mounting orientation.

Part Number			ARMS-40	ARMS-60-0B	ARMS-60-W-0B
F	Rotation Range		Move in the counterclockwise CCW direction to ∞, and stop at near 0 degree (-2.5°) in the clockwise CW direction.		
1	Table Size [mm]		<i>φ</i> 40	<i>φ</i> 60	φ60
Mechanical (	Travel Mechanism (reduction ratio)		Worm gear (1:144)	Worm gear (1:144)	Worm gear (1:144)
Specifications F	Positioning Slide		Bearing method	Bearing method	Bearing method
S	Stage Material		Aluminum / Aluminum bronze	Aluminum / Aluminum bronze	Aluminum / Aluminum bronze
١	Weight [kg]		0.35	0.45	1.0
	Deselution	(Full) [°/pulse]	0.005	0.005	0.005
r	Resolution	(Half) [°/pulse]	0.0025	0.0025	0.0025
1	MAX Speed [°/sec]		30	30	30
F	Positioning Accuracy [ ° ]		0.1	0.1	-
F	Positional Repeatability [ ° ]		0.02	0.02	0.02
Accuracy	Load Capacity [N]		19.6 (2.0kgf)	29.4 (3.0kgf)	29.4 (3.0kgf)
Specifications	Moment Stiffness ["/N·cm]		2	1	_
L	Lost Motion [ ° ]		0.05	0.05	0.05
E	Backlash [ ° ]		0.1	0.1	0.1
F	Parallelism [µm]		50	50	-
(	Concentricity [µm]		30	30	_
N	Wobble [mm]		0.02	0.02	_
S	Sensor Part Number		Micro Photoelectric Sensor: PM-F24 (SUNX Co., Ltd.)	Micro Photoelectric Sensor: PM-R24 (SUNX Co., Ltd.)	Micro Photoelectric Sensor: PM-R24 (SUNX Co., Ltd.)
Sensor L	Limit Sensor		Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)	Equipped (NORMAL CLOSE)
(	Origin Sensor		None	None	None
F	Proximity Origin Sensor		None	None	None

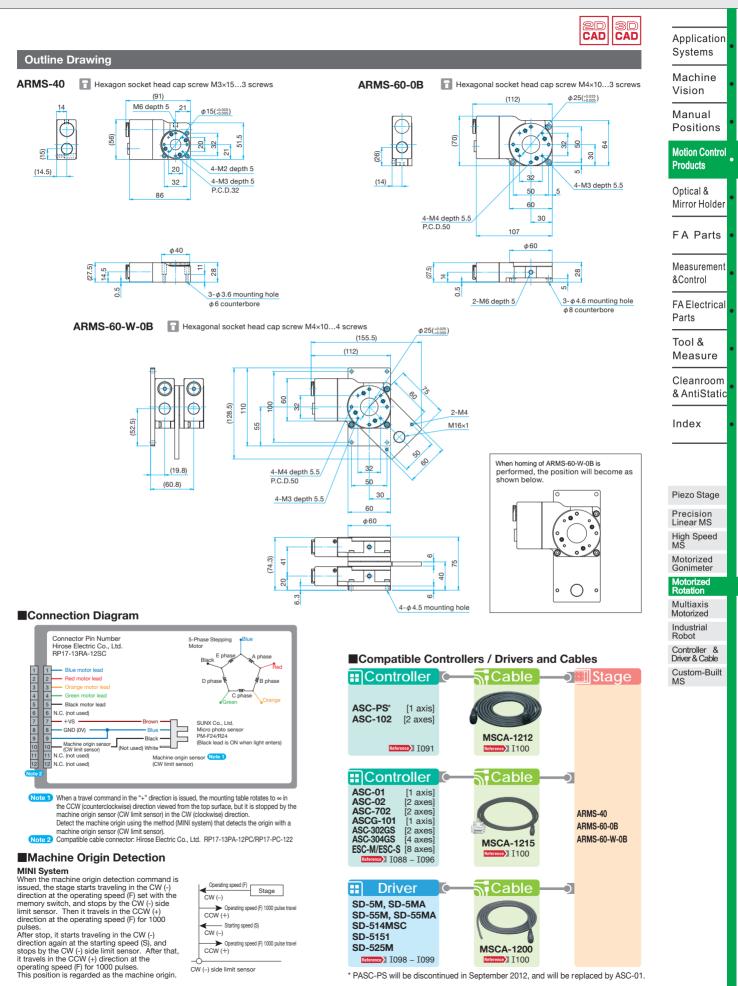
Motor / Sensor Specifications					
Motor	Туре	5-phase stepping motor 0.66A/phase (Tamagawa Seiki Co., Ltd.)			
	Motor Part Number	TS3664N4 (□24mm)			
	Step Angle	0.72°			
Sensor	Power Voltage	DC5 - 24V ±10%			
	Current Consumption	15mA or lower			
	Control Output	NPN open collector output DC30V or lower, 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			

CE

RoHS

## **Rotation Motorized Stages**



HOURS Industrial Equipment(HK) Co.,Ltd :

URL www.hours-web.com MAIL info@hours-web.com

**ARMS** 

CW (-) side limit sensor

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

🔰 I100

I098 – I099