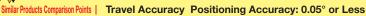


[High Precision] Motorized Rotary Stages

[Medium Precision] Motorized Rotary Stages





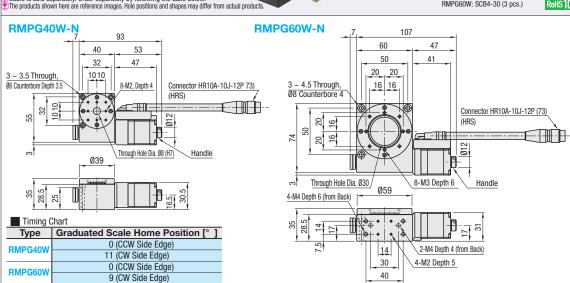
Features: Equipped with sensors compatible with 5VDC ~ 24VDC. CAD Data Folder Name: 28_Stages



Part Number

Cable

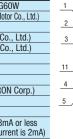
Rotary Surface Treatment Black Anodize CAD 3D Hex Socket Head Cap Screw (Stainless Steel) RMPG40W: SCB4-30 (3 pcs.) • Cable is sold separately. Order separately by following the table below.
• The products shown here are reference images. Hole positions and shapes may differ from actual products RMPG60W: SCB4-30 (3 pcs.)



Part Num	ber		Sensor	Me	char	nical	Specificati	ion				Ac	curacy	Stan	dard	S			
Туре	No.	Cable	Voltage (V)		Travel Distance	Weight (kg)	Floating Unit (Reduction Ratio)	Guide	Positioning	Moment Rigidity ("/N·cm)		Maximum Speed / sec [5kHz]		Load Capacity (N)	Lost Motion	Back	Parallelism (µm)	Eccentricity (µm)	Unifacial Deviation Amount (µm)
RMPG	40W	(None) Cables are sold	DC5~24V	Ø39	360°	0.4	Worm Gear (Reduction Ratio 1/120)	Deep Groove	0.05°	0.74	0.006° (Full)	30°	±0.01°	29.4	0.05° or	0.1° or Less	50 or	5 or	30 or
NIVIPO	60W	separately. Order separately by following the table below.		Ø59	300	0.6	Worm Gear (Reduction Ratio 1/180)	Ball Bearing	or Less	0.84	0.004° (Full)	20°	or Less	29.4	Less	0.05° or Less	less	less	less

■ Electrical Specifications

	· ·						
Sta	ge Type	RMPG40W	RMPG60W				
Motor	Туре	5-Phase Stepping Motor 0.75A/Phase (Oriental Motor Co., Ltd.)					
MOTOL	Step Angle	0.72°					
Connector	Part Number	HR10A-10J-12P(73) (H	lirose Electric Co., Ltd.)				
Connector	Receiving Side Connector	HR10A-10P-12S(73) (F	lirose Electric Co., Ltd.)				
	Limit Switch		-				
	Home Sensor	Provided					
	Near Home Sensor						
	Part Number	Photomicro Sensors EE-	SX4134 (OMRON Corp.)				
Sensor	Power Supply Voltage	DC5~24	V ±10%				
	Current Consumption	35mA	or less				
	Control		it DC5 ~ 24V, 8mA or less				
	Output	Residual Voltage 0.3V or less	s (when load current is 2mA)				
	Output Logic	When Detecting (Dark), Output Tr	ansistor is OFF. (Non-Conducting)				



Connector Pin Configuration		Wiring D	iagram		
1 10	1	Motor Lead Wire (Blue)	Blue `		
	2	Motor Lead Wire (Red)	Red		_
2 9	3	Motor Lead Wire (Orenge)	Orenge	MOTOR]
3 8	4	Motor Lead Wire (Green)	Green		
3 8	5	Motor Lead Wire (Black)	Black ,		Sensor Circuit Board
XX.0000-H	6	CWLS Output			ORG1
11 7	7	CCWLS Output	─		
··· / / / / / /	8	Input Power Supply (-)	Regulator Circ	cuit Board	L,
4 / 12	9	Power Input (+)	Vin	Vout	
_/ _	10	ORG Output			
5 6	11	Power Input (-)	GNE		
_	12	F.G.	Н		

		Standard Service		
Quantity		Regular Quantity	Large Quanti	
Qua	ntity	1~5	6~	
Days t	o ship	Standard	To Be Quoted	

Similar Products Comparison Points | Travel Accuracy Positioning Accuracy: 0.1° or Less

Features: Suitable for positioning at wide angle or for continuous 360° rotation.

CAD Data Folder Name: 28_Stages



Non-Retained

Part Number RMTS40

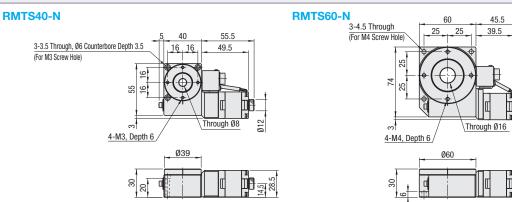
Cable N



Surface Treatment Black Anodize

RMTS40: SCB3-25 (3 pcs.) RMTS60: SCB4-12 (3 pcs.)

Cable is sold separately. Order separately by following the table below. The products shown here are reference images. Hole positions and shapes may differ from actual products.



Pa	art Num	ber		Mechanical Specification				Accuracy Standards						Ser	isor		
	Туре	No.	Cable	Stage Surface (mm)	Stroke (°)	Floating Unit (Reduction Ratio)			Load Capacity (N)	Resolution (Pulse)	Max.	Positioning	Repeatability	Lost Motion	Parallel	Limit Sensor	Home Position Sensor (ORG1)
	MTC	40	(None)	Ø39	360°	Turbine (Reduction Ratio 1/90)	Deep Groove	0.36	29.4	0.008° (Full)	40°/sec	0.1° or	±0.05°	0.1° or	50μm		Provided
_	RMTS	60	Cable is sold separately. Order separately by following the table below.	Ø60	300	Turbine (Reduction Ratio 1/120)	Ball Bearing	0.50	23.4	0.006° (Full)	30°/sec	Less	or Less	Less	or Less	_	riovided



		ays		
Ord	er	Standard	d Service	Non-Standard Service
Quantity		Regular Quantity	Large Quantity	
Quan	tity	1~2	3~10	11~
Days to	ship	Standard	+5 Days	To Be Quoted

Days to ship	Star	ndard	+5 Days	Tol
Large Volume Order	⊦ 5	Days	3~10	

Recommended Homing Method

	Inspection in CCW direction is conducted, and inspection process of CCW side of ORG Signal is performed
Type4	Inspection in CW direction is conducted, and inspection process of CW side of ORG Signal is performed.
Type9	After completion of inspection of Type 3, inspection process of CCW side of TIMING Signal is performed.
Type10	After completion of inspection of Type 4, inspection process of CW side of TIMING Signal is conducted.

■ Timing Chart

	Graduated Scale Home Position [°]
RMTS40	0°(Home Position Edge: CCW side of light shield)
nivi i 540	6°(Reverse Side Edge: CW side of light shield)
RMTS60	0°(Home Position Edge: CCW side of light shield)
NIVITODU	4°(Reverse Side Edge: CW side of light shield)

- Homing Routine Above: When MSCTL102 controller is used, and Homing Routine Type 4 is executed. - The coordinates shown are design values. There may be approx. $\pm 0.5^{\circ}$ on the physical dimensions.



Part Number	Size
MSCB2-R	Cable for Actuator 2m
MSCB2B-R	Cable for Actuator 2m, One Side Loose Wire
MSCB4-R	Cable for Actuator 4m
MSCB4B-R	Cable for Actuator 4m, One Side Loose Wire

Electrical Specifications

Motor	Туре	5-Phase Stepping Motor 0.75A/Phase (Sanyo Denki Co., Ltd.)
IVIOLOI	Step Angle	0.72°
Connector	Part Number	HR10A-10R-12PC (71) (Hirose Electric Co., Ltd.)
Connector	Recipient Side Part Number	HR10A-10P-12S (73) (Hirose Electric Co., Ltd.)
	Part Number	Photomicro Sensors EE-SX4134 (OMRON Corp.)
	Power Supply Voltage	DC5~24V ±10%
Sensor	Current Consumption	Total 60mA or less
3611301	Control Output	NPN Open Collector Output DC5 ~ 24V, 8mA or less Residual Voltage 0.3V or less (when load current is 2mA)
	Output Logic	When Detecting (Dark), Output Transistor is OFF. (Non-Conducting)

