* See page Pre-35 for explanation of each code that makes up the configuration name.

W-RA6C ROBO Cylinder Splash-proof Rod Type 64mm Width Pulse Motor Coupled

 \blacksquare Configuration: RCP2W - RA6C ı **56P** Cable Length Encoder Stroke Compatible Controll

> is also considered tvpe "I"

16:16mm 8:8mm 4:4mm

50: 50mm 300: 300mm (50mm pitch

increments)

P1: PCON **RPCON** PSEL

PSEP

P3:PMEC

: Brake-Equipped S:3m M : 5m
X : Custom Length
R : Robot Cable

With Flange
With Foot bracket NM : Reversed-home

Technical References P. A-5

critical rotational speed. Use the actuator specification table below to check the maximum speed at the (2) Since the RCP2 series use the pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph on the above right to see if your desired speed and load capacity are supported.

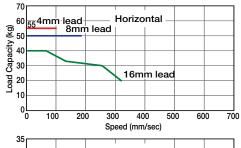
(3) The load capacity is based on operation at an acceleration of 0.2G. 0.2G is the upper limit for the acceleration.

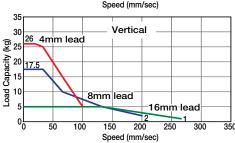
(4) The cable joint connector is not splash-proof; secure it in a place that is not prone to water spills.

(1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the

Speed vs. Load Capacity

Due to the characteristics of the Pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.





Actuator Specifications ■ Lead and Load Capacity

(Note 1) Please note that the maximum load capacity decreases as the speed increases.

Stroke and Maximum Speed

Model		Max. Load Ca Horizontal(kg)	, , , ,	Maximum Push Force (N) (Note 2)	Stroke (mm)
RCP2W-RA6C-I-56P-16-①-②-③-④	16	~40	~5	240	50,000
RCP2W-RA6C-I-56P-8-①-②-③-④	8	50	~17.5	470	50~300 (50mm
RCP2W-RA6C-I-56P-4-1 -2 -3 -4	4	55	~26	800	increments)
Legend 1 Stroke 2 Compatible controller 3 Cable length 4 Options (Note 2) See page A-69 for push force graph.					

Stroke Lead	50~300 (50mm increments)				
16	320 〈265〉				
8	200				
4	100				

(Note 2) See page A-69 for push force graph. * The value inside < > applies to vertical setting. (Unit: mm/s)

Standard Price

① Stroke List				
Stroke (mm)	Standard Price			
50	-			
100	-			
150	_			
200	-			
250	-			

Туре	Cable Symbol
Standard	P(1m)
	S (3m)
	M (5m)

X06 (6m) ~ X10 (10m) Special Lengths X11 (11m) ~ X15 (15m) X16 (16m) ~ X20 (20m) R01 (1m) ~ R03 (3m) R04 (4m) ~ R05 (5m) Robot Cable R06 (6m) ~ R10 (10m) R11 (11m) ~ R15 (15m) R16 (16m) ~ R20 (20m)

④ Option List			
Name	Option Code	See Page	Standard Price
Brake-Equipped	В	→ A-25	-
With Flange	FL	→ A-27	-
With Foot bracket	FT	→ A-29	-
Reversed-home	NM	→ A-33	-
rieverseu-nome	14141	/ A-00	_

Actuator opecification	0113		
Item	Description		
Drive System	Ball screw ø12mm C10 grade		
Positioning Repeatability	±0.02mm		
Lost Motion	0.1 mm or less		
Rod diameter	ø30mm		
Rod non-rotational accuracy	±1.0 degrees		
Protection Structure	IP65		
Ambient Operating Temp./Humidity	0~40°C, 85%RH or less (Non-condensing)		

300

See page A-39 for cables for maintenance.

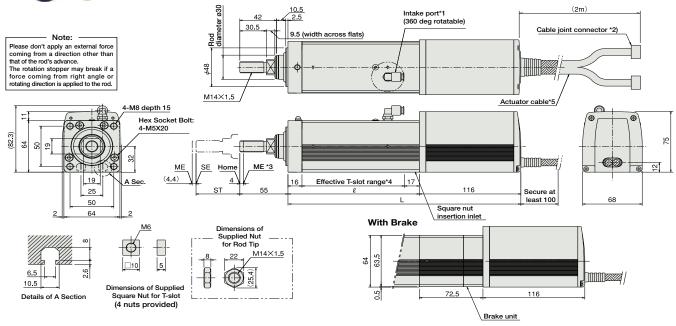


For Special Orders









- *1. Intake/exhaust port is the air exhaust tube in the main body. Insert OD ø6 mm tube and use it extended to a place that is not prone to water spills or intake.
- *2. Connect motor encoder cable . See page A-39 for details on cables. The cable joint connector is not splash-proof; therefore, please secure it in a place that is not prone to water spills.
- *3. When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.

ME: Mechanical End

SE: Stroke end

The dimensions enclosed in "()" are reference dimensions.

- *4. Please note that there is no T-slot in the bottom of brake unit.
- *5. The actuator cable is not a robot cable (flex resistant cable); therefore, please don't use it for movable parts such as cable track.

* Adding a brake increases overall length by 72.5mm and its weight by 0.9kg.

■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300
l	150	200	250	300	350	400
L	266	316	366	416	466	516
Weight (kg)	3.5	4.0	4.5	5.0	5.5	6.0

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	214	PMEC-C-56PI-NP-2-①	Easy-to-use controller, even for beginners.		AC100V AC200V	See P481	-	→ P477	
Solenoid Valve Type	1	PSEP-C-56PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and	3 points			-	→ P487	
Splash-Proof Solenoid ValveType		PSEP-CW-56PI-NP-2-0	double solenoid types. No homing necessary with simple absolute type.				-		
Positioner Type	-	PCON-C-56PI-NP-2-0	Positioning possible for	512 points (-) 64 points 768 points			-		
Safety Category Compliant Positioner Type		PCON-CG-56PI-NP-2-0	up to 512 points		is .		-		
Pulse Train Input ype (Differential Line Driver)		PCON-PL-56PI-NP-2-0	Differential line driver support Pulse Train Input Type		_	DC24V -)	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-56PI-NP-2-0	Open Collector Pulse Train Input Type					-	
Serial Communication Type		PCON-SE-56PI-N-0-0	Dedicated to serial communication				-		
Field Network Type		RPCON-56P	Dedicated to field network				_	→ P503	
Program Control Type		PSEL-C-1-56PI-NP-2-0	Programmed operation is possible Can operate up to 2 axes	1500 points			-	→ P557	

* This is for the single-axis PSEL.
*① is a placeholder for the power supply voltage (1:100V / 2:100~240V)