Controllers Integrated Roo Type Mini Standard

ROBO Cylinder High-thrust Dust-proof Rod Type 100mm Width Pulse Motor ■ Configuration: RCP2W — RA10C 86P **P2** Motor Туре N : None A1 - A3 : Connector cable P : 1m Cable outlet S : 3m direction changes M : 5m B : Brake-Equipped X □ : Custom Length FL : With Flange FT : With Foot bracket FT : With Foot bracket 86P: Pulse motor 10: 10mm 50: 50mm P2: PCON-CF 86 size 5 : 5mm 2.5 : 2.5mm 300: 300mm (50mm pitch * See page Pre-35 for explanation of each code that makes up the configuration name.



Technical (译 P. A-**5** References

(2) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check the Speed vs. Load Capacity on the right hand graph to see if your desired speed and load capacity are supported.
(3) The load capacity is based on operation at lead 10: 0.04G, lead 5: 0.02G and lead 2.5: 0.01G. These values are the upper limits for the acceleration. Also, this is when the load capacity is attached to the external guide. The rotation stopper may break if an external force coming from a direction other than that of rod's advance is applied.

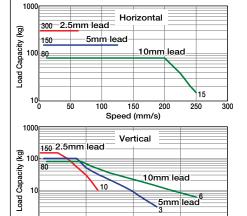
(1) Minimum speed is set for each lead. (Lead 10: 10mm/s, Lead 5: 5mm/s, Lead 2.5: 1mm/s) Please note that vibration etc. may occur when operated at minimum speed.

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

■ Speed vs. Load Capacity

50

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.



100

Speed (mm/s)

150

200

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	Lead (mm)	Max. Load Ca Horizontal(kg)			Stroke (mm)	Stroke Lead	50~300 (50mm increments)		
RCP2W-RA10C-I-86P-10-1 -P2-2 -3	10	~80	~80	1500	50,000	10	250〈167〉		
RCP2W-RA10C-I-86P-5-①-P2-②-③	5	150	~100	3000	50~300 (50mm increments)	5	125		
RCP2W-RA10C-I-86P-2.5-1 -P2-2 -3	2.5	300	~150	6000	increments)	2.5	63		
egend T Stroke C Cable length 3 Options (Note 2) See page A-70 for push force graph. * The value inside < > applies to vertical setting. (Unit: mm/s)									

① Stroke List

lotes or

Stroke (mm)	Standard Price
50	_
100	-
150	-
200	-
250	=
300	_

② Cable List

Туре	Cable Symbol	Standard Price	
Standard	P (1m)	-	
	S (3m)	-	
	M (5m)	-	
Special Lengths	X06 (6m) ~ X10 (10m)	-	
	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)	_	

^{*} See page A-39 for cables for maintenance.

③ Option List									
Name	Option Code	See Page	Standard Price						
Connector cable outlet direction changed	A1~A3	→ A-25	_						
Brake	В	→ A-25	-						
Flange	FL	→ A-27	-						
Foot bracket	FT	→ A-29	_						

Actuator Specifications						
Item	Description					
Drive System	Ball screw C10 grade					
Positioning Repeatability	±0.02mm					
Lost Motion	0.1 mm or less					
Rod diameter	ø40mm					
Rod non-rotational accuracy	±1.0 degrees					
Protection Structure	IP54					
Ambient Operating Temp./Humidity	0~40°C, 85%RH or less (Non-condensing)					

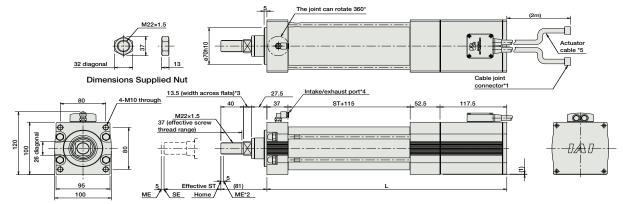
RCP2W-RA10C



For Special Orders



for the RA10C type for structural reasons.



*1. A motor-encoder cable is connected here. Please note that motor cable is the same as the one in the RCP2 series, but that the encoder cable is a dedicated type. 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.

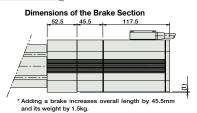
*2. When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.
ME: Mechanical end
SE: Stroke end
The dimensions enclosed in "()" are reference

- dimensions.
 *3. The direction of across-flats will vary depending on the
- The direction of across-nats will vary depending on the product.

 Intake/exhaust port is the air exhaust tube in the main body.

 The actuator cable is not a robot cable (flex resistant cable); therefore, please don't use it for movable parts such as cable track.





■ Dimensions/Weight by Stroke

St	roke	50	100	150	200	250	300
	L	372	422	472	522	572	622
Weig	ıht (kg)	9	9.5	10	10.5	11	11.5

Compatible Controllers

The controller for the RCP2W-RA10C type is a dedicated controller.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Positioner Type	1	PCON-CF-86PI-NP-2-0	Positioning possible for up to 512 points	512 points	DC24V	6A max.	-	→ P525

Note: Please note that the encoder cable is a dedicated CF-type cable that is different from the PCON-C/CG/CY/PL/PO/SE controllers.

IAI

RCP2W-RA10C 450

Controllers Integrated

Rod Type

Mini

Standard

Controllers Integrated

PSEP / ASEP / ROBO NET | ERC2 | PCON | ACON | SCON | PSEL | ASEL | SSEL |