CP2-RA10C

■ Configuration: RCP2 — RA10C

Encoder I: Incremental

86P: Pulse motor 86 🗆 size

– 86P

10:10mm 5:5mm 2.5 : 2.5mm

Stroke Compatible Controllers 50: 50mm P2: PCON-CF 300: 300mm (50mm pitch

P2

N : None P : 1m S : 3m M:5m

A1-A3 : Connector cable exit direction

B : Brake

R : Robot cable

FL FT : Flange : Foot bracket

* See page Pre-35 for an explanation of the naming convention.

P. A-**5**

Minimum speed is set per each lead. (10mm-lead: 10mm/s, 5mm-lead: 5mm/s, 2.5-lead: 1mm/s) Please note that if the actuator is operated below the minimum speed, vibration may occur.

Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

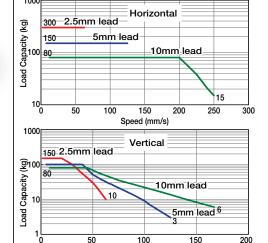
The load capacity is based on operation at an acceleration of 0.3G for 10mm-lead, 0.02G for 5mm-lead, and 0.01 for 2.5-lead.

This is the upper limit of the acceleration.

In addition, the horizontal load capacity is based on the use of an external guide. If an external force is exerted on the rod from a direction other than the motion of the rod, the detent may become damaged.

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.

References

Model	Lead	Max. Load Ca	pacity (Note 1)	Maximum Push	Stroke	
Wiodei	(mm)	Horizontal (kg)	Vertical (kg)	Force (N)(Note 2)	(mm)	
RCP2-RA10C-I-86P-10-①-P2-②-③	10	~ 80	~ 80	1500		
RCP2-RA10C-I-86P-5-①-P2-②-③	5	150	~100	3000	50 ~ 300 (50mm increments)	
RCP2-RA10C-I-86P-2.5-①-P2-②-③	2.5	300	~ 150	6000	inoromonio,	
Legend ①Stroke ②Cable length ③Options	(No	ote 2) See pa	ge A-70 for t	the pushing for	orce graphs.	

Lead	(50mm increments)
10	250 <167>
5	125
2.5	63
* The values enclosed	in < > apply for vertical usage. (Unit: mm/s)

100

Speed (mm/s)

150

200

1) Stroke List

U Stroke Lik	
Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-
250	-
300	-

② Cable List

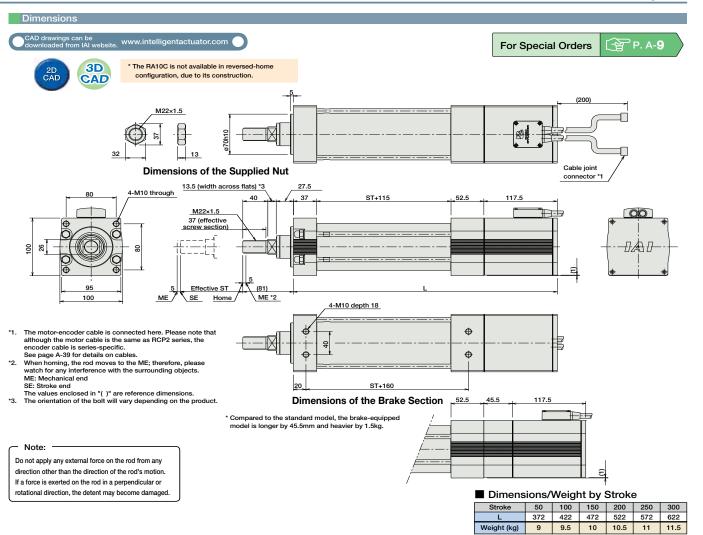
Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard	S (3m)	-
	M (5m)	-
	X06 (6m) ~ X10 (10m)	-
Special Lengths	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-
	R01 (1m) ~ R03 (3m)	-
	R04 (4m) ~ R05 (5m)	-
Robot Cable	R06 (6m) ~ R10 (10m)	-
	R11 (11m) ~ R15 (15m)	-
	R16 (16m) ~ R20 (20m)	-

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

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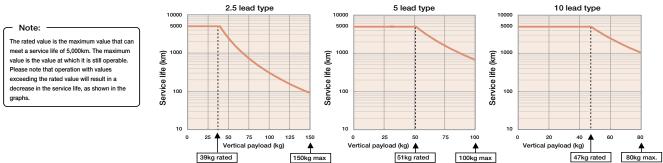
Option Code	See Page	Standard Price
A1 \sim A3	→ A-25	-
В	→ A-25	-
FL	→ A-27	-
FT	→ A-29	-
	A1 ~ A3 B FL	$\begin{array}{ccc} \textbf{A1} \sim \textbf{A3} & \rightarrow \textbf{A-25} \\ \textbf{B} & \rightarrow \textbf{A-25} \\ \textbf{FL} & \rightarrow \textbf{A-27} \end{array}$

Description ew C10 grade
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n
or less
1
C, 85% RH or less (non-condensing)
ç



Vertical Payload and Service Life

The service life of a rod-type ROBO Cylinder is 5,000km. However, since the RCP2-RA10C has a larger maximum thrust compared to other types, its service life will largely depend on the load capacity and pushing force used. Therefore, when selecting your product using the Speed vs. Load Capacity, or Pushing Force vs. Current Limit graphs, check the service life using the Load Capacity vs. Load Capacity, and Pushing Force vs. Load Capacity graphs.



The controller	for the RCP2-RA10	C type is the following dedicat	ted controller.					
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Positioner Type		PCON-CF-86PI-NP-2-0	Positioning is possible for up to 512 points	512 points	DC24V	6A max.	-	→ P 525