

1.5

<u>-0.5</u> 500

600 700

400

Speed (mm/s)



250 300 (1)

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 0.2G. 0.2G is the upper limit of the acceleration. In addition, the horizontal load capacity is based on the use of an external guide. See the technical resources (page A-82) for the allowable weight using the supplied guide alone.

Actuator Specifications									
Lead and Load Capacity (Note 1) Please	note that the m	naximum load o	apacity decre	ases as the sp	eed increases.	Stroke a	nd Maxim	ium Spee	d
Model	Lead (mm)	Max. Load Ca Horizontal (kg)		Maximum Push Force (N)(Note 2)	Stroke (mm)	Stroke Lead	$50 \mathop{\sim}_{(50mm} 200$	250 (mm)	300 (mm)
RCP2-RGS4C-I-42P-10-①-②-③-④	10	$\sim$ 25	$\sim$ 3.5	150		10	458	458	350
RCP2-RGS4C-I-42P-5-①-②-③-④	5	$\sim$ 40	~ 11	284	50 ~ 300 (50mm increments)	5	250	237	175
RCP2-RGS4C-I-42P-2.5-①-②-③-④	2.5	40	$\sim$ 18	358	incrementaj	2.5	125 <114>	118 <114>	87
Legend: ① Stroke ② Compatible controller ③ Cable length ④ Options (Note 2) See page A-69 for the pushing force graphs. * The values enclosed in < > apply for vertical usage. (Unit: mm/s							ge. (Unit: mm/s)		

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

## ③ Cable List

٥Ľ 100 200

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

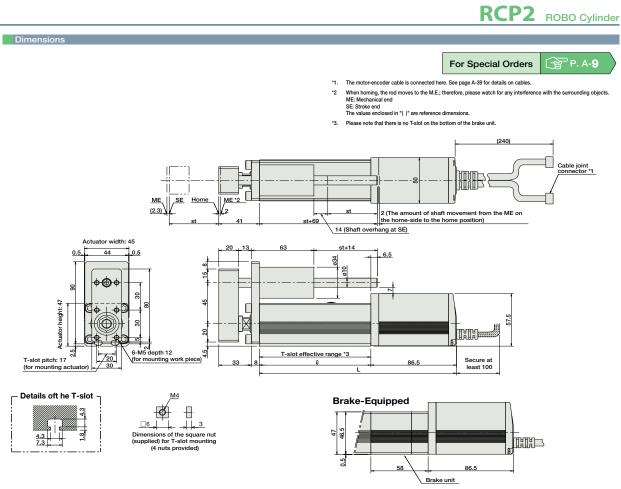
\* See page A-39 for cables for maintenance.

④ Option List			
Name	Option Code	See Page	Standard Price
Brake	В	ightarrow A-25	-
Foot bracket	FT	ightarrow A-29	-
Reversed-home	NM	ightarrow A-33	-

Actuator Specifications	
Item	Description
Drive System	Ball screw ø8mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Single guide Guide rod diameter ø10mm Ball bush type
Rod Diameter	ø22mm
Non-rotating accuracy of rod	±0.05 deg
Ambient Operating Temp./Humidity	$0 \sim 40^{\circ}$ C, 85% RH or less (non-condensing)

## 151 RCP2-RGS4C





\* Compared to the standard model, the brake-equipped model is longer by 58mm and heavier by 0.4kg.

Dimensions/Weight by Stroke							
Stroke	50	100	150	200	250	300	
l	112.5	162.5	212.5	262.5	312.5	362.5	
L	199	249	299	349	399	449	
Weight (kg)	1.8	2.1	2.4	2.7	2.9	3.2	

	External View	Model		Max. Positioning Points	Input Voltage	Power Supply Capacity		See Page
Solenoid Valve Type	110	PMEC-C-42PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
Sciencia valve Type		PSEP-C-42PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P487
Splash-Proof Solenoid Valve Type	1	PSEP-CW-42PI-NP-2-0	No homing necessary with simple absolute type.				-	/ 40/
Positioner Type	Ĩ	PCON-C-42PI-NP-2-0	<ul> <li>Positioning is possible for up to 512 points</li> </ul>	512 points	DC24V	2A max.	-	→ P525
Safety-Compliant Positioner Type		PCON-CG-42PI-NP-2-0					-	
Pulse Train Input Type Differential Line Driver)		PCON-PL-42PI-NP-2-0	Pulse train input type with differential line driver support				-	
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-NP-2-0 Pulse train input type with open collector support	(-)			-		
erial Communication Type		PCON-SE-42PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-42P	Dedicated to field network	768 points			-	→ P503
rogram Control Type		PSEL-C-1-42PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557

 $^{\star}$  (1) is a placeholder for the power supply voltage (1: 100V, or 2: 100 $\sim$ 240V).

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