



(1)

#### When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire. 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 support 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 re

sources (page A-83) for the allowable weight using the supplied guide alone.

Actuator Specifications									
Lead and Load Capacity (Note 1) Please r	note that the m	naximum load o	apacity decre	ases as the sp	eed increases.	Stroke a	nd Maxim	um Spee	d
Model	Lead	Max. Load Ca	pacity (Note 1)	Maximum Push	Stroke	Stroke	$50\sim 200$	250	300
Widdei	(mm)	Horizontal (kg)	Vertical (kg)	Force (N)(Note 2)	(mm)	Lead	(50mm increments)	(mm)	(mm)
RCP2-RGD4C-I-42P-10-①-②-③-④	10	$\sim$ 25	$\sim$ 3.5	150	$50 \sim 300$ (50mm incre- ments)	10	458	458	350
RCP2-RGD4C-I-42P-5-①-②-③-④	5	$\sim$ 40	$\sim$ 11	284		5	250	237	175
RCP2-RGD4C-I-42P-2.5-①-②-③-④	2.5	40	$\sim$ 18	358		2.5	125 <114>	118 <114>	87
Legend: 🗍 Stroke 🖉 Compatible controller 🕄 Cable length 🕘 Options (Note 2) See page A-69 for the pushing force graphs. * The values enclosed in < > apply for vertical usage. (Unit: mm/s)									

Legend: ① Stroke ② Compatible controller ③ Cable length ④ Options

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

#### ③ Cable List

12 11

0<sup>L</sup>

5mm lead

0.5

1.5

100 200 10mm lead

400

Speed (mm/s)

500

600 700

Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard	<b>S</b> (3m)	-
	<b>M</b> (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-
Robot Cable	R01 (1m) $\sim$ 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	3
Item	Description
Drive System	Ball screw ø8mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Double guide Guide rod diameter ø10mm Ball bush type
Rod Diameter	ø22mm
Non-rotating accuracy of rod	±0.05 deg
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)

### 159 RCP2-RGD4C



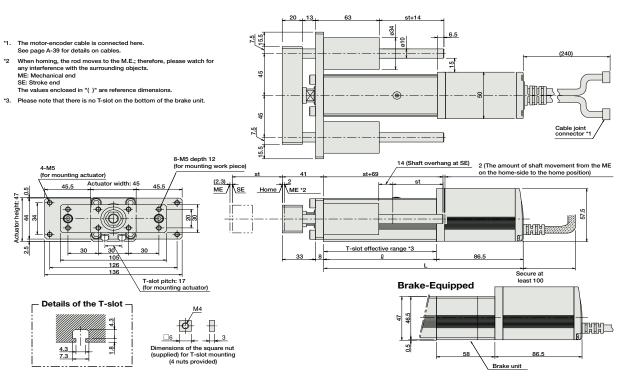
## RCP2 ROBO Cylinder

Controllers Integrated Rod Type Mini Standard Controllers Integrated Table/Arm /Flat Type Mini Standard

aripper/ lotary Type

PMEC (AMEC PSEP ASEP ASEP ARE PCON ACON SCON PSEL ASEL SCE

For Special Orders P. A-9



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	
٤	112.5	162.5	212.5	262.5	312.5	362.5	
L	199	249	299	349	399	449	
Weight (kg)	2.2	2.5	2.8	3.1	3.4	3.7	

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pa
		PMEC-C-42PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P47
Solenoid Valve Type	1	PSEP-C-42PI-NP-2-0	Operable with same signal as solenoid valve.	3 points			-	→ P48
Splash-Proof Solenoid Valve Type	1	PSEP-CW-42PI-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	- 7P40
Positioner Type	Ű	PCON-C-42PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
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	(-)	DC24V	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial 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			-	→ P50
Program Control Type		PSEL-C-1-42PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P55

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



Dimensions

# IAI

