

Controllers
Integrated

Rod
Type

Mini

Standard

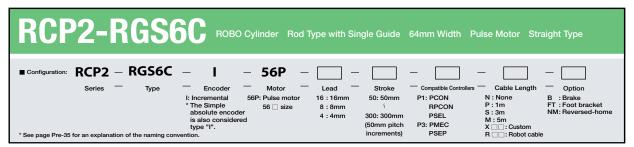
Controllers
Integrated

Table/Arr
/Flat Typ

Mini

Standard

PMEC /AMEC PSEP /ASEP ROBO NET PCON ACON SCON PSEL SSEL





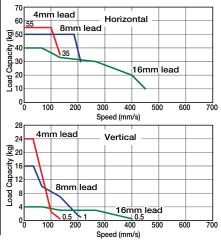
- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- Since the RCPS series use a pulse motor, the load capacity decreases at high speeds.

  Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

- 3) 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 incritoratial 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

### ■ 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 r	note that the m	aximum load o	apacity decre	ases as the sp	eed increases.	
Model	Lead	Max. Load Capacity (Note 1)		Maximum Push	Stroke	
	(mm)	Horizontal (kg)	Vertical (kg)	Force (N)(Note 2)	(mm	
RCP2-RGS6C-I-56P-16-①-②-③-④	16	~ 40	~ 4	240		
RCP2-RGS6C-I-56P-8-①-②-③-④	8	~ 50	~ 16	470	50 ~ 300 (50mm increments)	
RCP2-RGS6C-I-56P-4-①-②-③-④	4	~ 55	~ 24	800	o.cieita)	
Legend: ① Stroke ② Compatible controller ③ Cable length ④	Options	(Note 2) S	See page A-69	for the pushing	force graphs.	

	Stroke and	a Maximum Speed
	Stroke Lead	$50\sim300$ (50mm increments)
	16	450 <400>
	8	210
	4	130
_	* The values enclosed	in < > apply for vertical usage (Unit: mm/s)

# ① Stroke List

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

### 3 Cable List

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

<sup>\*</sup> See page A-39 for cables for maintenance.

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

Actuator Specification	ons
Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Single guide Guide rod diameter ø12mm Ball bush type
Rod Diameter	ø30mm
Non-rotating accuracy of rod	±0.05 deg
Ambient Operating Temp./Humidity	$0 \sim 40^{\circ}\text{C}$ , 85% RH or less (non-condensing)

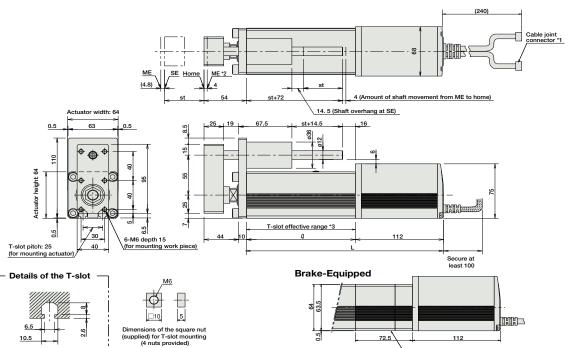
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- The motor-encoder cable is connected here. See page A-39 for details on cables
- When homing, the rod moves to the M.E.; therefore, please watch for any interfer ME. Mechanical end SE: Stroke end 1
  The values enclosed in \*( )\* are reference dimensions.
- Please note that there is no T-slot on the bottom of the brake unit



Brake unit \* Compared to the standard model, the brake-equipped model is longer by 72.5mm and heavier by 0.9kg.

#### ■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300
R	138	188	238	288	338	388
L	250	300	350	400	450	500
Weight (kg)	3.6	4.4	5.0	5.5	6.1	6.6

## ② Compatible Controllers

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pag
Solenoid Valve Type	4100	PMEC-C-56PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P47
Solenoid valve Type		PSEP-C-56PI-NP-2-0	Operable with same signal as solenoid valve.	3 points		2A max.	-	→ P487
Splash-Proof Solenoid Valve Type		PSEP-CW-56PI-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	
Positioner Type		PCON-C-56PI-NP-2-0	Positioning is possible for up to 512 points	512 points	DC24V		-	
Safety-Compliant Positioner Type		PCON-CG-56PI-NP-2-0	Positioning is possible for up to 312 points	512 points			-	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-56PI-NP-2-0	Pulse train input type with differential line driver support	- (-) 64 points 768 points			-	→ P52
Pulse Train Input Type (Open Collector)		PCON-PO-56PI-NP-2-0	Pulse train input type with open collector support				-	
Serial Communication Type		PCON-SE-56PI-N-0-0	Dedicated to serial communication				-	
Field Network Type		RPCON-56P	Dedicated to field network				-	→ P50
Program Control Type	<u> </u>	PSEL-C-1-56PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes				-	→ P55

IAI

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Table/Arm
/Flat Type
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