

Technical **會** P. A-**5** References

ontrollers ntegrated

Rod
Type

Mini

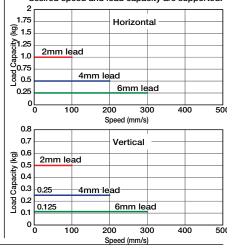
Standard

(1) The load capacity is based on operation at an acceleration of 0.2G This is the upper limit of the acceleration.

- 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.
- (3) The maximum pushing force is exerted at 5mm/s.
- (4) If the actuator is used in a dusty environment, its service life will become significantly shorter.
- (5) This model uses a lead screw. Please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



75 ~ 150 (mm)

300

(Unit: mm/s)

200

## Actuator Specifications ■ Lead and Load Capacity Stroke and Maximum Speed Maximum Max. Load Capacity 25 Feed Screw Stroke 50 (mm) Lead (mm) Push Force (N Lead RCP3-RA2BR-I-20P-6S-1 - 2 - 3 - 4 6 0.25 0.125 6 180 280 Screw ~ **150** Lead RCP3-RA2BR-I-20P-4S-1 - 2 - 3 - 4 See page 4 0.25 180 0.5 ±0.05 (25mm 4 A-68. Lead RCP3-RA2BR-I-20P-2S-1 - 2 - 3 - 4 2 0.5 2 100 Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

## ① Stroke List

Stroke (mm)	Standard Price
	Feed Screw
	Lead Screw
25	-
50	-
75	-
100	-
125	-
150	-

## ③ Cable List

Actuator Specifications

Туре	Cable Symbol	Standard Price	
Standard	P (1m)	-	
	<b>S</b> (3m)	-	
(Robot Cables)	M (5m)	-	
	X06 (6m) ~ X10 (10m)	-	
Special Lengths	X11 (11m) ~ X15 (15m)	-	
	X16 (16m) ~ X20 (20m)	-	

- \* The RCP3 comes standard with a robot cable.
- \* See page A-39 for cables for maintenance.

PMEC /AMEC ROBO NET ERC2 PCON ACON SCON PSEL SSEL

④ Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Left-Mounted Motor (Standard)	ML	→ A-33	-
Right-Mounted Motor	MR	→ A-33	-
Reversed-home	NM	→ Δ-33	_

Actuator opecinication	3113
Item	Description
Drive System	Lead screw ø6mm C10 grade
Lost Motion	0.3mm or less (initial value)
Base	Material: Aluminum (white alumite treated)
Guide	Sliding guide
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)
Service Life	Horizontal: 10 million cycles Vertical: 5 million cycles

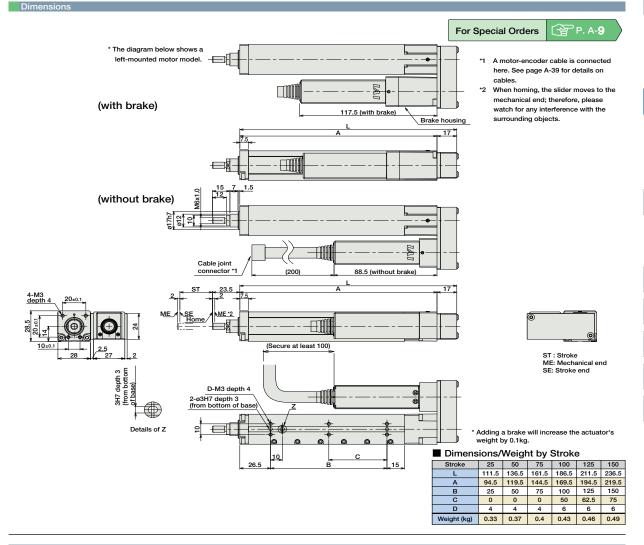
137 RCP3-RA2BR



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

PMEC AMEC PSEP ASEP ASEP ASEL SSEL





Name		Model	Description		Input Voltage	Power Supply Capacity		See Page
		PMEC-C-20PI-NP-2-①	Easy-to-use controller,even for beginners		AC100V AC200V	See P481	-	→ P477
Solenoid Valve Type		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve.	3 points		2A max.	-	→ P487
Splash-Proof Solenoid Valve Type		PSEP-CW-20PI-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	
Positioner Type		PCON-C-20PI-NP-2-0					-	→ P525
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
Pulse Train Input Type Differential Line Driver)	6Î	PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V		-	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support				-	
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-20P	Dedicated to field network	768 points			→ P503	
Program Control Type		PSEL-C-1-20PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557

IAI

138 RCP3-RA2BR

