

Technical **會** P. A-**5** References

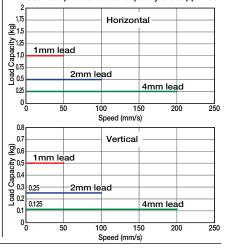
Rod Type Mini Standard

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

- (2) 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.



Actuator Specifications ■ Lead and Load Capacity Stroke and Maximum Speed Lead Max. Load Capacity Maximum $50\sim100$ Feed Screw Stroke 25 Push Force (N Lead RCP3-RA2AR-I-20P-4S-1 - 2 - 3 - 4 4 0.25 0.125 4 180 200 Screw ~ 100 Lead RCP3-RA2AR-I-20P-2S-1 - 2 - 3 - 4 2 0.25 2 100 0.5 See page A-68. ±0.05 (25mm Lead RCP3-RA2AR-I-20P-1S-1 - 2 - 3 - 4 0.5 (Unit: mm/s) Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

① Stroke List

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

③ Cable List

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

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

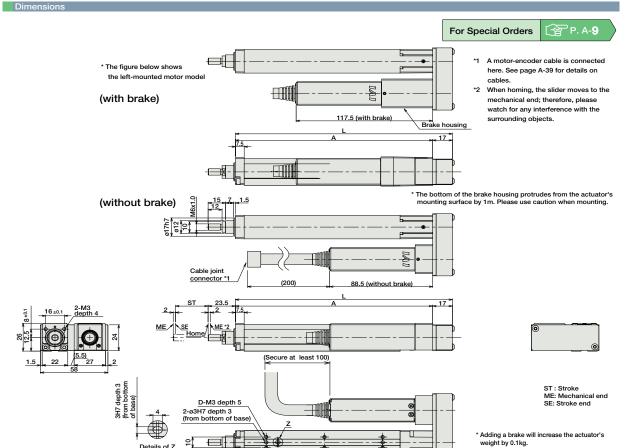
④ Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Left-Mounted Motor (Standard)	ML	→ A-33	-
Right-Mounted Motor	MR	→ A-33	-
Reversed-home	NM	→ A-33	-

Actuator Specification	ons
Item	Description
Drive System	Lead screw Ø4mm 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

135 RCP3-RA2AR







Dimensi	ons/W	eight l	by Str	oke
Stroke	25	50	75	100
L	111.5	136.5	161.5	186.5
	04.5	440.5		400 5

■ Dimensions/weight by Stroke						
Stroke	25	50	75	100		
L	111.5	136.5	161.5	186.5		
Α	94.5	119.5	144.5	169.5		
В	25	50	75	100		
С	0	0	0	50		
D	4	4	4	6		
Weight (kg)	0.29	0.32	0.34	0.36		

The RCP3 series	actuators car	n operate with the con	trollers below. Select the controller acc	cording to your usage).				
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	110	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Soleliold valve Type		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve.	3 points			-	- → P487	
Splash-Proof Solenoid Valve Type	1	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	Positioning is possible for up to 512 points	512 points	512 points		-		
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	Positioning is possible for up to 312 points				-		
Pulse Train Input Type Differential Line Driver)	Ó	PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	()	DC24V	2A max.	-	→ P525	
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	

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Standard
Controllers
Integrated

Rod
Type

Mini

Standard
Controllers
Integrated

Fable/Arm
Flat Type

Mini