



Mini
Standard
controllers
integrated
Rod
Type
Mini
Standard
Controllers
Integrated

Туре

 $\blacksquare$  Configuration: RCP3 - SA2AR

\* See page Pre-35 for explanation of each code that make

ROBO Cylinder Mini Slider Type Side-Mounted Motor Unit 22mm Width Pulse Motor Lead Screw

Motor l: Incremental 20P:
\* The Simple
absolute encoder
models are
labeled as "I".
up the configuration name. 20P: Pulse motor 4S: 4mm lead screw 20 Size 2S: 2mm lead screw

**20P** 

25: 25mm 100: 100mm (25mm pitch

Compatible Con P1: PCON RPCON PSEL

P3: PMEC

N : None
P : 1m
S : 3m
M : 5m
X □ : Custom Length

Option See Options below \* Be sure to specify which side the motor is to be mounted (ML/MR).

Pictured: Left-mounted motor model (ML).

References

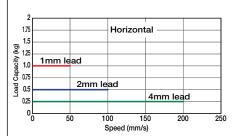
(1) The load capacity is based on operation at an acceleration of 0.2G. This the upper limit for the acceleration. (2) The actuator cannot be used on its side or in a vertical orientation.

(3) If used in a dusty environment, the service life will decrease significantly.

(4) This model uses a lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-42.)

### ■ 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

Model		Lead	Max. Load Capacity		Positioning Repeatability	Stroke
		(mm)	Horizontal (kg)	Vertical (kg)	(mm)	(mm)
RCP3-SA2AR-I-20P-4S-①-②-③-④		4	0.25	_		25~100 (25mm increments)
RCP3-SA2AR-I-20P-2S-①-②-③-④	Lead screw	2	0.5	-	±0.05	
RCP3-SA2AR-I-20P-1S-①-②-③-④		1	1	-		
Legend ①Stroke ②Compatible controller ③Cable length ④Options						

# Stroke and Maximum Speed

Stroke Lead		25 (mm)	50 ~ 100 (mm)		
we	4	180	200		
ead screw	2	100			
ř	1	50			
			(Unit: mm/s)		

1) Stroke Lis	st
Stroke (mm)	Standard Price
25	_

Standard Price
_
-
_
-

#### ③ Cable List

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

<sup>\*</sup> The standard cable for the RCP3 is the robot cable.

#### 4 Option List

Name	Option Code	See Page	Standard Price
Left-mounted motor (Standard)	ML	→ A-33	_
Right-mounted motor	MR	→ A-33	_
Reversed-home	NM	→ A-33	_

## Actuator Specifications

Item	Description			
Drive System	Lead screw Ø4mm C10 grade			
Lost Motion	0.3mm or less (initial value)			
Base	Material: Aluminum (white alumite treated)			
Guide	Slide guide			
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)			
Service Life	10 million cycles			

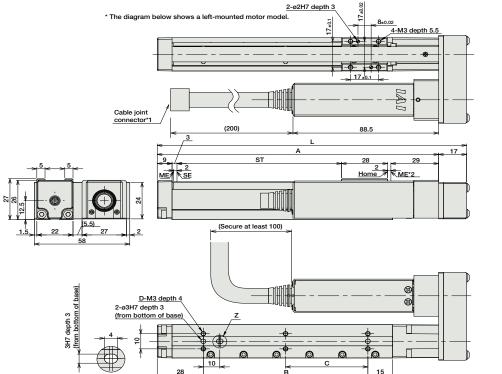
<sup>\*</sup> See page A-39 for cables for maintenance.





\*1 A motor-encoder cable is connected here. See page A-39 for details on cables.

\*2 During the homing operation, the slider moves to actuator's mechanical end; therefore, please watch for any interference with the surrounding objects.



0

ST : Stroke ME: Mechanical end SE: Stroke end

### ■ Dimensions/Weight by Stroke

Dimensions/ Weight by Stroke						
Stroke	25	50	75	100		
L	113	138	163	188		
Α	96	121	146	171		
В	25	50	75	100		
С	0	0	0	50		
D	4	4	4	6		
Weight (kg)	0.28	0.3	0.32	0.33		

#### ② Compatible Controllers

Details of Z

The RCP3 series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	PMEC-C-20PI-NP-2-① Easy-to-use controller, even for beginners AC200V		See P481	-	→ P477				
Solenoid valve Type		PSEP-C-20PI-NP-2-0 Operable with same signal as solenoid valve. Supports both single	Operable with same signal as solenoid valve. Supports both single and double solenoid types.  No homing necessary with simple absolute type.	3 points			-	→ P487	
Splash-Proof Solenoid Valve Type		PSEP-CW-20PI-NP-2-0					-		
Positioner Type	£	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points		512 points			-	
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0		312 points	DC24V (-)	2A Max.	-		
Pulse Train Input Type (Differential Line Driver)	Ü	PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	(-)			-	→ P525	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support				-		
Serial Communication Type	Í	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. Can operate up to 2 axes	1500 points			-	→ P557	

\* This is for the single-axis PSEL. \*  $\odot$  is a placeholder for the power supply voltage (1: 100V / 2: 100 $\sim$ 240V).

IAI

RCP3-SA2AR



PMEC (AMEC PSEP / ASEP PASEP PASEP PSEL ASEL SSEL



www.electromate.com sales@electromate.com