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































#### ROBO Cylinder Mini Slider Type Side-Mounted Motor Unit 22mm Width Pulse Motor Lead Screw $\blacksquare$ Configuration: RCP3 - SA2AR **20P** Motor Compatible Cor Option Туре l: Incremental 20P: \* The Simple absolute encoder models are labeled as "I". up the configuration name. N : None P : 1m S : 3m M : 5m X □ : Custom Length See Options below \* Be sure to specify 20P: Pulse motor 4S: 4mm lead screw 25: 25mm P1: PCON 2S: 2mm lead screw RPCON 20 size 100: 100mm PSEL which side the motor is to be mounted P3: PMEC (25mm pitch



References

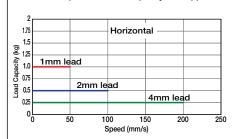
(1) The load capacity is based on operation at an acceleration of 0.2G. This the upper limit for the acceleration. (2) The actuator cannot be used on its side or in a vertical orientation. (3) If used in a dusty environment, the service life will decrease significantly.

(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.

(ML/MR).



#### Actuator Specifications

# ■ Lead and Load Capacity

Model	Feed	Lead	Max. Load Capacity		Positioning Repeatability (mm)	Stroke (mm)
woder		(mm)	Horizontal (kg)	Vertical (kg)		
RCP3-SA2AR-I-20P-4S-①-②-③-④		4	0.25	-		05 400
RCP3-SA2AR-I-20P-2S-①-②-③-④	Lead screw	2	0.5	-	±0.05	25~100 (25mm increments)
RCP3-SA2AR-I-20P-1S-①-②-③-④		1	1	-		increments)
Legend ① Stroke ② Compatible controller ③ Cable length ④ Options						

# Stroke and Maximum Speed

Lead	Stroke	25 (mm)	50 ~ 100 (mm)
ew	4	180	200
ead screw	2	10	00
Le	1	5	0
			(Unit: mm/s)

① Stroke Lis	st .
Stroke (mm)	Standard Price
25	_
50	-
75	_
100	-

### ③ Cable List

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

- \* The standard cable for the RCP3 is the robot cable.
- \* See page A-39 for cables for maintenance.

## 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			





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ST : Stroke ME: Mechanical end SE: Stroke end

 25
 50
 75
 100

 113
 138
 163
 188

146 171 75 100 0 50

96 121

25 50 0 Weight (kg) 0.28 0.3 0.32 0.33

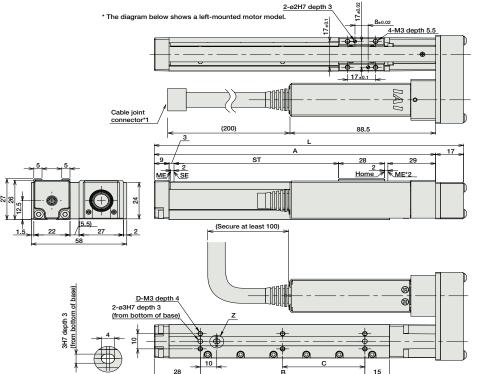
Stroke

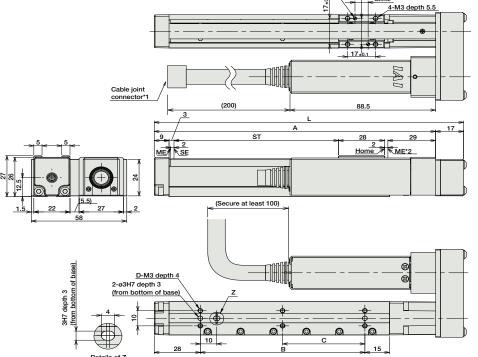
PMEC AMEC PSEP ASEP ASEP ASEL SSEL

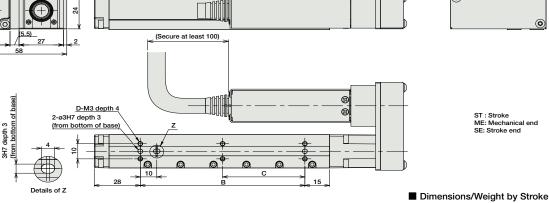
RCP3-SA2AR



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







# ② Compatible Controllers

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 Pag	
Solenoid Valve Type	100	PMEC-C-20PI-NP-2-① Lasy-to-use controlled, even for	AC100V AC200V	See P481	-	→ P477			
Soleliold valve Type	1	PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P48	
Splash-Proof Solenoid Valve Type		PSEP-CW-20PI-NP-2-0	No homing necessary with simple absolute type.					-	7 P46
Positioner Type	£	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	points	512 points			-		
Pulse Train Input Type (Differential Line Driver)		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			-	→ P50	
Program Control Type		PSEL-C-1-20PI-NP-2-0	Programmed operation is possible. Can operate up to 2 axes	1500 points			-	→ P55	
* This is for the single-axis PSEL.  * ① is a placeholder for the power supply voltage (1: 100V / 2: 100 ∼ 240V).									

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