## CP3-SA2AR ROBO Cylinder Mini Slider Type Side-Mounted Motor Unit 22mm Width Pulse Motor Lead Screw

 $\blacksquare$  Configuration: RCP3 - SA2AR -**20P** Cable Length Encoder Option N : None P : 1m S : 3m M : 5m I: Incremental \* The Simple 20P: Pulse motor 4S: 4mm lead screw 25: 25mm P1: PCON See Options below \* Be sure to specify which side the motor 20  $\square$  size 2S:2mm lead screw **RPCON** absolute encoder

1S:1mm lead screw models are \*See page Pre-35 for explanation of each code that make up the configuration name

100: 100mm (25mm pitch increments)

**PSEL** P3: PMEC PSEP

X 🗆 : Custom Length

Speed vs. Load Capacity

is to be mounted (ML/MR).

Pictured: Left-mounted motor model (ML).

Technical References

## 1.75 Horizontal 1.5 호 1.25 Capacity ( 1mm lead 2mm lead 0.5 4mm lead 0.25 100 150 200 250 Speed (mm/s)

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.

(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.)

Actuator Specifications										
■ Lead and Load Capacity										
Model	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)		Positioning Repeatability (mm)	Stroke (mm)	Lea	Stroke	25 (mm)	50 ~ 100 (mm)
RCP3-SA2AR-I-20P-4S-①-②-③-④	Lead screw	4	0.25	-	±0.05	25~100 (25mm increments)	Lead screw	4	180	200
RCP3-SA2AR-I-20P-2S-①-②-③-④		2	0.5	-				2	1	00
RCP3-SA2AR-I-20P-1S-1 -2 -3 -4		1	1	-				1	5	60

① Stroke List						
Stroke (mm)	Standard Price					
25	=					
50	=					
75	=					
100	=					

Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

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	→ <b>Δ</b> -33	_

③ Cable List						
Туре	Cable Symbol	Standard Price				
Standard (Robot Cables)	P (1m)	-				
	<b>S</b> (3m)	-				
	<b>M</b> (5m)	-				
Special Lengths	X06 (6m) ~ X10 (10m)	-				
	X11 (11m) ~ X15 (15m)	-				
	X16 (16m) ~ X20 (20m)	-				
+T1						

(Unit: mm/s)

\* The standard cable for the RCP3 is the robot cable.

\* See page A-39 for cables for maintenance.

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



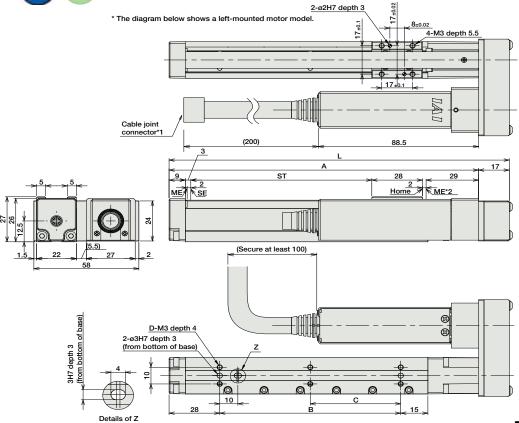
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- \*1 A motor-encoder cable is connected here. See page A-39 for details on cables.
- \*2 During the homing operation, the slider moves to actuator's mechanical end; therefore, please watch for any interference with the surrounding objects.





ST : Stroke ME: Mechanical end SE: Stroke end

■ Dimensions/Weight by Stroke

- Dimensions/ Weight by Otroke									
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

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	*150	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
	1	PSEP-C-20PI-NP-2-0	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	PO	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	312 points	DC24V	2A Max.	-	
Pulse Train Input Type (Differential Line Driver)		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	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).