

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm/Flat Type
- Mini
- Standard
- Gripper/Rotary Type
- Linear Servo Type
- Cleanroom Type
- Splash-Proof
- Controllers
- PMEC/AMEC
- PSEP/ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

## RCP3-SA2AR ROBO Cylinder Mini Slider Type Side-Mounted Motor Unit 22mm Width

Pulse Motor Lead Screw

■ Configuration: **RCP3** — **SA2AR** — **I** — **20P** —  —  —  —  —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I: Incremental  
\* The Simple absolute encoder models are labeled as "I".

20P: Pulse motor  
20  size  
4S: 4mm lead screw  
2S: 2mm lead screw  
1S: 1mm lead screw

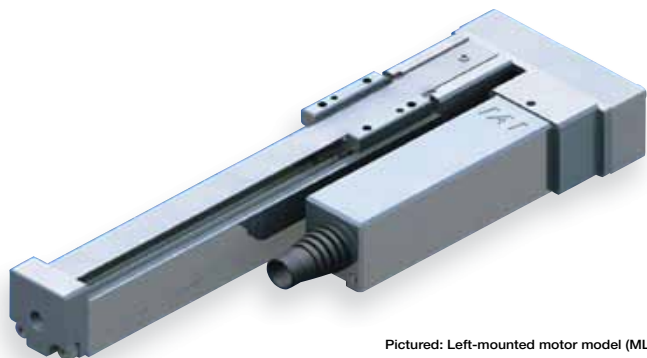
25: 25mm  
100: 100mm (25mm pitch increments)

P1: PCON  
RPCON  
PSEL  
P3: PMEC  
PSEP

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

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

\* See page Pre-35 for explanation of each code that make up the configuration name.

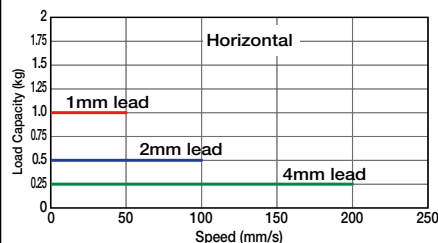


Picture: Left-mounted motor model (ML).

Technical References A-5

- POINT** Notes on Selection
- (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				Stroke and Maximum Speed		
Model	Feed Screw	Lead (mm)	Max. Load Capacity		Positioning Repeatability (mm)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCP3-SA2AR-I-20P-4S-①-②-③-④	Lead screw	4	0.25	-	±0.05	25~100 (25mm increments)
RCP3-SA2AR-I-20P-2S-①-②-③-④		2	0.5	-		
RCP3-SA2AR-I-20P-1S-①-②-③-④		1	1	-		

Lead	Stroke		50 ~ 100 (mm)
	25 (mm)	50 ~ 100 (mm)	
Lead screw	4	180	200
	2	100	
	1	50	

Legend ① Stroke ② Compatible controller ③ Cable length ④ Options (Unit: mm/s)

① Stroke List

Stroke (mm)	Standard Price
25	-
50	-
75	-
100	-

③ Cable List

Type	Cable Symbol	Standard Price
Standard (Robot Cables)	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	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

# 15 RCP3-SA2AR

