





ROBO Cylinder Mini Slider Type Side-Mounted Motor Unit 28mm Width Pulse Motor Lead Screw R \blacksquare Configuration: RCP3 - SA2BR **20P** Motor Compatible Con Option Туре I: 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 6S: 4mm lead screw 25: 25mm P1: PCON RPCON 20 size 4S: 4mm lead screw 2S: 2mm lead screw 150: 150mm PSEL which side the motor is to be mounted P3: PMEC (25mm pitch (ML/MR). * See page Pre-35 for explanation of each code that m



References

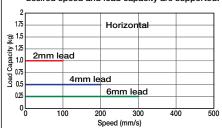
(1) The load capacity is based on operation at an acceleration of 0.2G. This the upper limit for the acceleration. (2) The actuator cannot be used on its side or in a vertical orientation.

(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-SA2BR-I-20P-6S-①-②-③-④		6	0.25	_		05 450
RCP3-SA2BR-I-20P-4S-①-②-③-④		4	0.5	-	±0.05	25~150 (25mm
RCP3-SA2BR-I-20P-2S-①-②-③-④		2	1	-		increments)
Legend ① Stroke ② Compatible controller ③ Cable length ④ Options						

Stroke and Maximum Speed

Lead	Stroke	25 (mm)	50 (mm)	75~150 (mm)		
ew	6	180	280	300		
ead screw	4	180	200			
Leg	2					
(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)	-	
	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.

4 Option List Name Option Code Standard Price Left-Mounted Motor (Standard) ML → A-33 Right-Mounted Motor MR → A-33

Actuator Specifications	
Item	Description
Drive System	Lead screw ø6mm 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

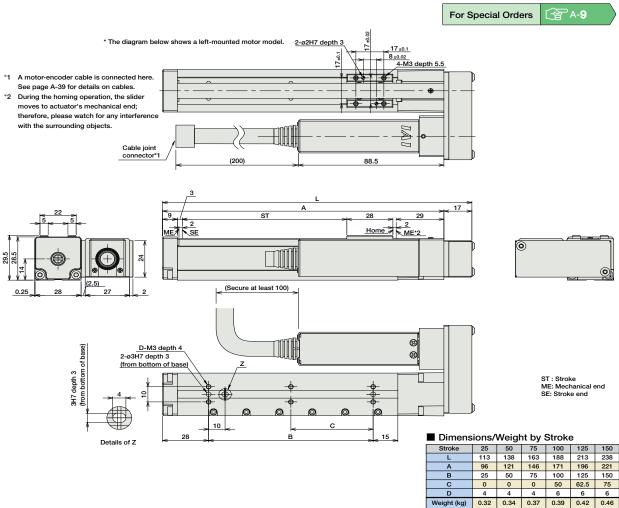
125 150

Reversed-home



^{*} See page A-39 for cables for maintenance.





② Com	patible	Control	lers

Dimensions

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

Name	External View	Model		Max. Positioning Points	Input Voltage	Power Supply Capacity		See Page			
Solenoid Valve Type			AC100V AC200V	See P481	-	→ P47					
Solenoid valve Type				-	→ P48						
Splash-Proof Solenoid Valve Type	Ţ.	PSEP-CW-20PI-NP-2-0	No homing necessary with simple absolute type.				-	7 1 407			
Positioner Type		PCON-C-20PI-NP-2-0	Positioning is possible for up to 512	512 points	F12 points	£12 points	512 points			-	
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	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.	-	→ P52		
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	100	PSEL-C-1-20PI-NP-2-0	Programmed operation is possible. Can operate up to 2 axes	1500 points			-	→ P5			

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

IAI

RCP3-SA2BR





PMEC AMEC PSEP ASEP ASEP ASEP ASEL SSEL