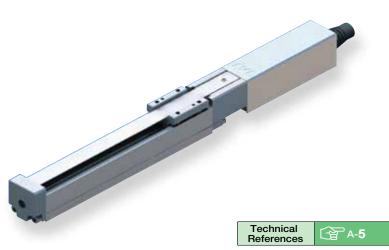
ROBO Cylinder Mini Slider Type Coupled Motor 28mm Width Pulse Motor Lead Screw RCP3-SA2BC  $\blacksquare$  Configuration: RCP3 - SA2BC -**20P** Encoder Option I: Incremental \* The Simple 20P: Pulse motor 6S: 6mm lead screw 25: 25mm P1: PCON N: None NM : Reversed-home P:1m S:3m M:5m 20 🗌 size 4S: 4mm lead screw **RPCON** absolute encoder PSEL 2S: 2mm lead screw 150: 150mm is also considered type "I".

\* See page Pre-35 for explanation of each code that make up the configuration name (25mm pitch P3: PMEC X 🗆 : Custom Length

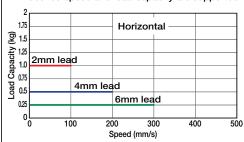
increments)



■ Speed vs. Load Capacity

PSEP

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 ■ Stroke and Maximum Speed												
Model	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Positioning Repeatability (mm)	Stroke (mm)	L	S ead	Stroke	25 (mm)	50 (mm)	75~150 (mm)
RCP3-SA2BC-I-20P-6S-①-②-③-④	Lead screw	6	0.25	-	±0.05	25~150 (25 increments)		<b>A</b>	6	180	280	300
RCP3-SA2BC-I-20P-4S-①-②-③-④		4	0.5	-			Lead screw	ח	4	180	20	00
RCP3-SA2BC-I-20P-2S-①-②-③-④		2	1	-				נמ	2		100	
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	-						
125	-						
150	-						

3 Cable Lis	l	
Туре	Cable Symbol	Standard Price
Standard (Robot Cables)	P (1m)	_
	<b>S</b> (3m)	-
	<b>M</b> (5m)	_
	X06 (6m) ~ X10 (10m)	-
Special Lengths	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
Reversed-home	NM	→ 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

Dimensions

CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

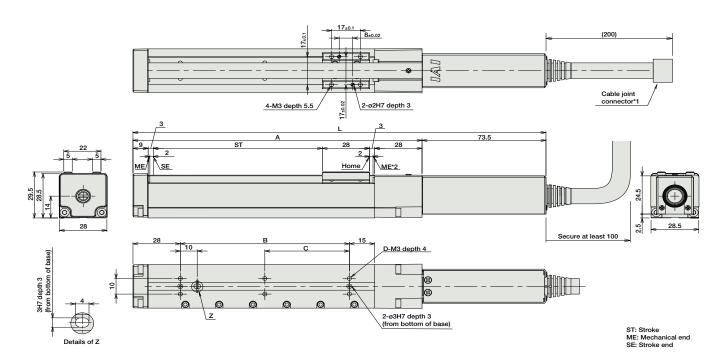
For Special Orders







- \*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, and then reverses. Therefore, watch for any interference with its surroundings.



## ■ Dimensions/Weight by Stroke

- Difficiliations/ Weight by Ottoke									
Stroke	25	50	75	100	125	150			
L	169.5	194.5	219.5	244.5	269.5	294.5			
Α	96	121	146	171	196	221			
В	25	50	75	100	125	150			
С	0	0	0	50	62.5	75			
D	4	4	4	6	6	6			
Weight (kg)	0.3	0.32	0.35	0.37	0.4	0.42			

## 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	211	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
Colonial valve type	1	PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double	3 points			-	. 5407
Splash-Proof Solenoid Valve Type	1	PSEP-CW-20PI-NP-2-0	solenoid types. No homing necessary with simple absolute type.				-	→ P487
Positioner Type		PCON-C-20PI-NP-2-0	Positioning is possible for up	512 points			-	
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	to 512 points				-	
Pulse Train Input Type (Differential Line Driver)	PCON-PC-20PI-NP-2-0	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			-	→ 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.
\* ① is a placeholder for the power supply voltage (1: 100V / 2: 100~240V).