

PMEC
/AMEC
PSEP
/ASEP
ROBO
NET
ERG2
PCON
ACON
SCON
PSEL
ASEL

- SA2AC **20P** ■ Configuration: RCP3 Compatible Con Туре I: Incremental 20P:
\* The Simple
absolute encoder
is also considered
type "I".
up the configuration name N: None
P: 1m
S: 3m
M: 5m
X \cup : Custom Length r 4S: 4mm lead screw 20P: Pulse moto 25: 25mm P1: PCON NM : Reversed-home RPCON 20 
size 2S: 2mm lead screw 1S:1mm lead screw 100: 100mm PSEL P3: PMEC (25mm pitch \* See page Pre-35 for explanation of each code that make



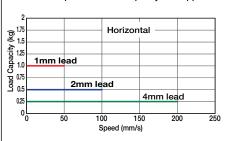
Technical References



- (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	Feed	Lead	Max. Load	I Capacity	Positioning Repeatability	Stroke
	Wodel	Screw	(mm)	Horizontal (kg)	Vertical (kg)	(mm)	(mm)
	RCP3-SA2AC-I-20P-4S-①-②-③-④		4	0.25	-		05 100
	RCP3-SA2AC-I-20P-2S-①-②-③-④	Lead screw	2	0.5	-	±0.05	25~100 (25 increments)
	RCP3-SA2AC-I-20P-1S-①-②-③-④		1	1	-		morementa
ľ	Legend ① Stroke ② Compatible Controller ③ Cable Len	gth 40	ptions				

See Page

Standard Price

## Stroke and Maximum Speed

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

① Stroke Lis	ST
Stroke (mm)	Standard Price
25	_

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

Option Code

#### ③ Cable List

Туре	Cable Symbol	Standard Price
Standard	P (1m)	1
	<b>S</b> (3m)	_
(Robot Cables)	M (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.

### 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

RCP3-SA2AC

4 Option List

Reversed-home

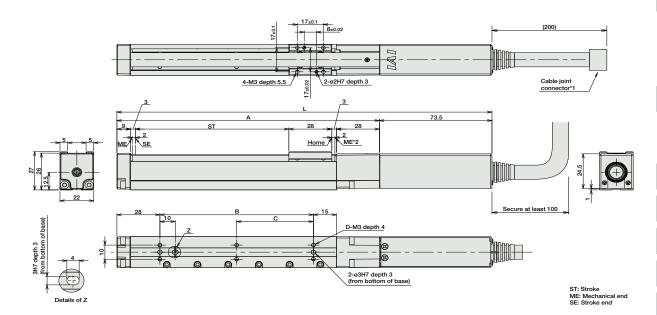
Name



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

, , , , , , , , ,					
Stroke	25	50	75	100	
L	169.5	194.5	219.5	244.5	
Α	96	121	146	171	
В	25	50	75	100	
С	0	0	0	50	
D	4	4	4	6	
Weight (kg)	0.25	0.27	0.29	0.3	

1110 1101 0 3011	es actuators ca	n operate with the controlle	ers below. Select the control	ller according to y	our usage.			
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pag
Solenoid Valve Type	1152	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P47
Solenoid valve Type		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double	3 points	DC24V	2A Max.	-	
Splash-Proof Solenoid Valve Type	1	PSEP-CW-20PI-NP-2-0	solenoid types.				-	→ P48
Positioner Type	Ē	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points	oints 512 points			-	→ P525
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0					-	
Pulse Train Input Type (Differential Line Driver)	đ	PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support				-	
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				_	→ P55

IAI

RCP3-SA2AC





Slider Type

Mi

Mini

Controllers

od vpe

Mini

Standard

Table/Arm

Mini

Standard

Gripper/ Rotary Type

Туре

Туре

Splash-Proof

ontrollers

/AMEC

ROBO NET

DCON

ACON

SCON

ASEL

XSEL

Pulse Moto

Servo Motor (24V)

Servo Motor (200V)

Linear Servo Motor