P3-SA2BR

Model Specification Items

RCP3 -SA2BR-Series — Type

- **20P** -П

20□ size

— Encoder type — Motor type — Lead

Stroke 20P: Pulse motor, 6S: lead screw 6mm 25: 25mm 4S: lead screw 4mm

2S: lead screw 2mm 150: 150mm (25mm pitch increments)

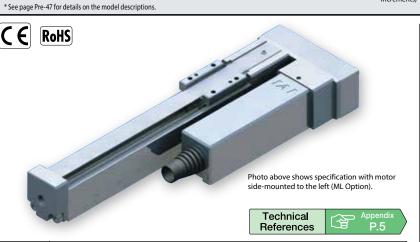
Applicable controller — P1: PCON-PL/PO/SE **PSEL**

P3: PCON-CA PMEC/PSEP **MSEP**

Cable length — Options N: None P: 1m S: 3m

See options below. *Be sure to specify which side the motor is to be mounted

M:5m is to be m
X□□: Custom (ML/MR) length



I: Incremental

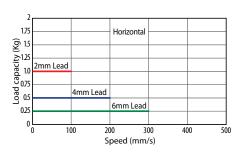
The Simple absolute

considered type "I".

encoder is also

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.

■ Speed vs. Load Capacity



- (1) The load capacity is based on operation at an acceleration of 0.2G. This value is 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-52.)
- (5) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads

Model number		Lead	Max. Load Capacity		Positioning Repeatability	Stroke	
	screw	(mm)	Horizontal (kg)	Vertical (kg)	(mm)	(mm)	
RCP3-SA2BR-I-20P-6S-①-②-③-④		6	0.25	_			
RCP3-SA2BR-I-20P-4S-①-②-③-④	Lead screw	4	0.5	_	±0.05	25~150 (every 25mm)	
RCP3-SA2BR-I-20P-2S-①-②-③-④		2	1	_			
Code avalanation (Ctroke Applicable	Control	مر <u>هر د</u>	bla lang	h 🖾 On	tions *c	A 74 C 1 + 1	

■ Stroke and	d Maximu	m Speed	
Stroke	25	50	Г

Lead	Stroke	25 (mm)	50 (mm)	75~150 (mm)
Wei	6	180	280	300
Lead screw	4	180	20	00
Leg	2		100	

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options *See page A-71 for details on push motion.

(Unit: mm/s)

① Stroke

①Stroke (mm)	Standard price
25	_
50	_
75	_
100	_
125	_
150	_

3 Cable Lengt	
	в
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Туре	Cable symbol	Standard price
Standard	P (1m)	_
(Robot Cables)	S (3m)	_
(Robot Cables)	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_

^{*}The standard cable for the RCP3 is the robot cable.
*See page A-59 for cables for maintenance.

4 Options

Name	Option code	See page	Standard price
Left-mounted motor (standard)	ML	→ A-52	_
Right-mounted motor	MR	→ A-52	_
Non-motor end specification	NM	→ A-52	_

Actuator Specifications

Item	Description
Drive System	Lead screw, ø6mm, rolled C10
Lost Motion	0.3mm or less (initial value)
Base	Material: Aluminum, white alumite treated
Guide (*)	Slide guide
Ambient Operating Temp./Humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service Life	10 million cycles

^{*} Offset load not supported.

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MINI

Standard

Controllers Integrated

Table/ Arm/ Flat Type

Mini

Rotary Type

Linear Servo Type

leanoom

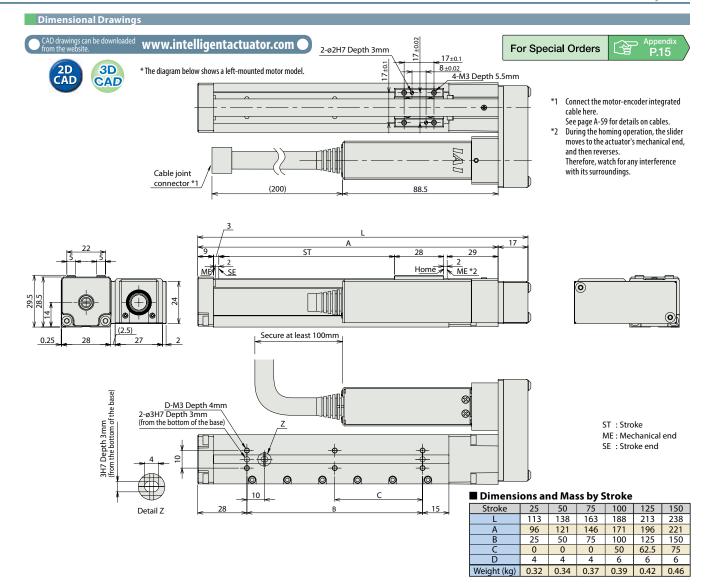
plash Proof

ulse Iotor

ervo lotor

Servo Motor

Linear Servo Motor



Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referenc page	
Colored IVelor Torre		PMEC-C-20PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537	
Solenoid Valve Type	1	PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P54	
Solenoid valve multi-axis type PIO specification	line	MSEP-C-(1)-~-(1)-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to P572		→ P563	
Solenoid valve multi-axis type Network specification		MSEP-C-(11)-~-(1V)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	→ P30	
Positioner type High-output specification	á	PCON-CA-20PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_		
Pulse-train type High-output specification	1	1	PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607
Field network type High-output specification		PCON-CA-20PI-®-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_		
Pulse Train Input Type (Differential Line Driver)	C	PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support	()			_		
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support	(—)		Refer to P628	_	→ P623	
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated Serial Communication	64 points		_			
Program Control Type		PSEL-CS-1-20PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P66	