

Mini

Standard

Integrated

Roc Type

Min

Standard

Table/ Arm/

Mini

Standard

Gripper/ Rotary Type

> Linear Servo Type

Clean roor Typ

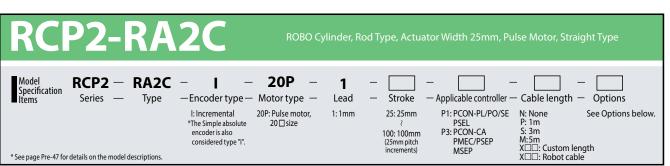
Splash Prod Typ

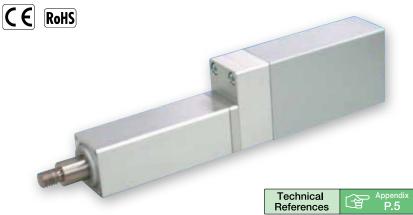
> Pulse Motor

Servo Moto (24V

Servo Motor (200V)

Linear Servo Motor





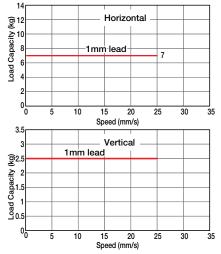
(1) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds.
Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

(2) The load capacity is based on operation at an acceleration of 0.05G. 0.05G is the upper limit of the acceleration. In addition, the horizontal load capacity is based on the use of an external guide. If an external force is exerted on the rod from a direction other than the motion of the rod, the detent may become damaged.

(3) See page A-71 for details on push motion.

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP2 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 Payloads

Model number	Lead (mm)	Maximun Horizontal (kg)	n payload Vertical (kg)	Maximum pushing force (N)	Stroke (mm)
RCP2-RA2C-I-20P-1-①-②-③-④	1	7	2.5	100	25 to 100 (every 25mm)

■ Stroke and Maximum Speed

Stroke	25~100
Lead	(every 50mm)
1	25

(Unit: mm/s)

①Stroke

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

3Cable Length

Туре	Cable symbol	Standard price
	P (1m)	_
Standard type	S (3m)	_
	M (5m)	_
Special length	X06 (6m) ~ X10 (10m)	_
	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20(20m)	_
	R01 (1m) ~ R03 (3m)	_
Robot cable	R04 (4m) ~ R05 (5m)	_
	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

^{*} See page A-59 for cables for maintenance.

4 Options

Name	Option code	Page	Standard Price
Flange	FL	→ A-44	_
Foot bracket	FT	→ A-48	_

Actuator Specifications

ltem	Description
Drive method	Ball screw, ø6mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod	ø12mm
Rod non-rotation precision	±2.1 deg
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

Dimensional Drawings

www.intelligentactuator.com

For Special Orders





Do not apply any external force on the rod from any direction other than the

direction of the rod's motion. If a force is exerted on the rod in a perpendicular or rotational direction, the detent may become damaged.

Note:

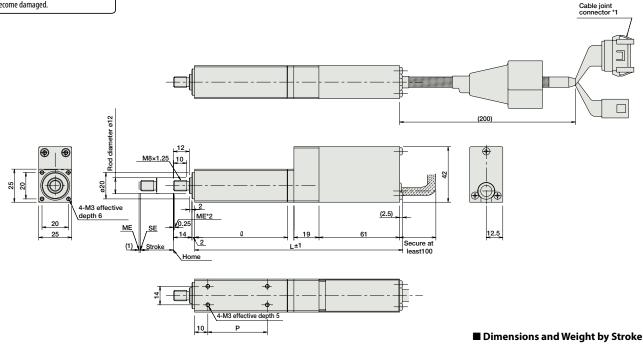


* The RA2C is not available in non-motor end configuration, due to its construction.

(*1) Connect the motor and encoder cables here. (See page A-59 for details on cables.)
 (*2) After homing, the rod moves to the ME, therefore, please watch for any interference with

ME: Mechanical end

SE: Stroke end



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Stroke	25	50	75	100
l	70	95	120	145
L	157.5	182.5	207.5	232.5
Р	45	70	95	120
Weight (kg)	0.4	0.5	0.6	0.7

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Solenoid Valve Type	**	PMEC-C-20PI-①-2-①	Easy-to-use controller, even for beginners	3 points	AC100V AC200V	Refer to P541	_	→ P53
Soleriold valve Type	8	PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve			Refer to P555	_	→ P54
Solenoid valve multi-axis type PIO specification		MSEP-C	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				
Positioner type High-output specification		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		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P60
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)	Ó	PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support	64 points			_	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support			Refer to P628	_	→ P62
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated Serial Communication				_	
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

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