* See page Pre-47 for details on the model descriptions.

Model Specification Items

RCP2 - GRS -

ı — Encoder type — Motor type — Deceleration Ratio — Stroke — Applicable controller —

I: Incremental

* The Simple absolute

considered type "I".

encoder is also

20P - 1

10 -

20P: Pulse motor, 1: 1/1 deceleration (5mm per side) 20□ size ratio

10: 10mm

P1: PCON-PL/PO/SE **PSEL** P3: PCON-CA

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

SB: Shaft bracket FB: Flange bracket

M:5m X□□: Custom Length R□□: Robot cable PMEC/PSEP **MSEP**





Technical References

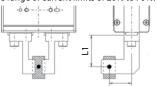




- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- $(2) \ \ The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point where there$ is no offset or overhang distance. The work piece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the work piece, as well as on the shape of the work piece. As a rough guide, a work piece's weight should not exceed 1/10 to 1/20 of the gripping force. (See page A-86 for details.)
- (3) The rated acceleration while moving is 0.3G.

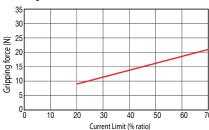
■ Gripping Force vs. Current Limit

The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.



- * Operate with the L1 distance up to 50mm. L2
- *The gripping force value in the graph below is when both L1 and L2 are at 0 mm. (For gripping force reference per L1 distance, see page A-87.)

The gripping force value is the sum of gripping forces of both fingers.



- *The gripping force graph above shows reference numbers. Please allow margins up to \pm 15%.
- * Please note that, when gripping (pushing), the speed is fixed at

Actuator Specifications

■ Lead and Payload

= =caa ana ray roaa			
Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (mm)
RCP2-GRS-I-20P-1-10-①-②-③	1	21 (10.5 per side)	10 (5 per side)

■ Stroke and Max. Opening/Closing Speed

Stroke Deceleration ratio	10 (mm)
1	33.3 (per side)

Code explanation ① Applicable Controller ② Cable length ③ Options

(Unit: mm/s)

Stroke	
Stroke (mm)	Standard price
10	_

\sim	C-L				1_
(2)		Ie L	(em	ОΠ	n
$\overline{}$		_		\sim \sim	_

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

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

Actuator Specifications

③ Options See page Standard price Option code Name

FB

→ A-43

→ A-55

Item	Description
Drive System	Timing belt + trapezoidal screw (1.5 lead)
Positioning repeatability	±0.01mm
Backlash	0.15mm or less per side (constantly pressed out by a spring)
Lost motion	0.1mm or less per side
Guide	Cross roller guide
Allowable static load moment	Ma: 6.3 N·m, Mb: 6.3 N·m, Mc: 7.0 N·m
Weight	0.36kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

Flange bracket

Shaft bracket

Dimensional Drawings

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

For Special Orders

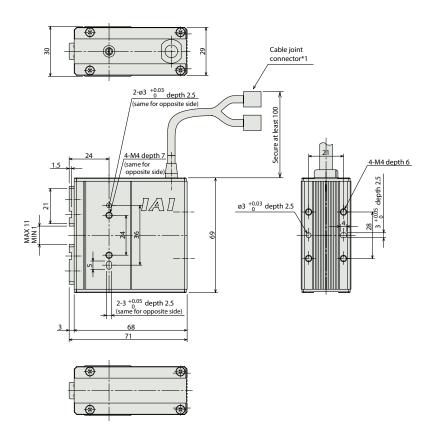






*The opening side of the slider is the home position.

(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.



2-M4 depth 8

Note:

The holes in the slider shown above, other than tapped holes, are used to install the slider onto the actuator. They cannot be used as finger positioning holes. Use the key slots to position the fingers.

Weight (kg) 0.36

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-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P53
	8	PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points	3 points 256 points 512 points (—) 768 points (—)	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	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		Refer to P618	_	→ P607
Pulse-train type High-output specification		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	
Field network type High-output specification		PCON-CA-20PI-Ŵ-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support	(—)		Refer to P628	_	→ P623
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support				_	
Serial Communication Type	Ĩ	PCON-SE-20PI-N-0-0	Dedicated Serial Communication	64 points	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

IAI

RCP2-GRS **378**

Mini

Standard

Controller: Integrated

> Rod Type

Mini

O TOTAL OF

Integrated

Table/ Arm/ Flat Type

Rotary Type

Linear Servo Type

> leanoom

plash Proof vpe

> ulse lotor

ervo lotor (4V)

Servo Motor (200V)

> ervo Motor