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

2-GRSS

Model Specification Items

RCP2 - GRSS -

* The Simple absolute

considered type "I".

encoder is also

I: Incremental

20P -

20□ size

30

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

20P: Pulse motor, 30:1/30 8: 8mm deceleration (4mm per side) ratio

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

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

NM: Non-motor end FB: Flange bracket SB: Shaft bracket

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

 ϵ RoHS



Technical References

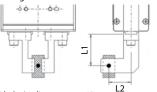




- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed
- (2) The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point where there is no offset or overhang distance. The work piece weight that can be actually 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.

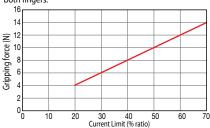
■ Gripping Force vs. Current Limit

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 40mm.
- *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

Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (mm)
RCP2-GRSS-I-20P-30-8-①-②-③	30	14 (7 per side)	8 (4 per side)

■ Stroke and Max. Opening/Closing Speed

Stroke Deceleration ratio	8 (mm)
30	78 (per side)

Code explanation ① Applicable Controller ② Cable length ③ Options

(Unit: mm/s)

Stroke

Stroke (mm)	Standard price
8	_

Name	Option code	See page	Standard price
Non-motor end specification	NM	→ A-52	_
Flange bracket	FB	→ A-43	_
Shaft bracket	SB	→ A-55	_

② Cable Length

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

- *The standard cable is the motor-encoder integrated robot cable.
- * See page A-59 for cables for maintenance.

Actuator Specifications

Actuator Specifications				
ltem	Description			
Drive System	Worm gear + helical gear + helical rack			
Positioning repeatability	±0.01mm			
Backlash	0.2mm or less per side (constantly pressed out by a spring)			
Lost motion	0.05mm or less per side			
Guide	Linear guide			
Allowable static load moment	Ma: 0.5 N·m, Mb: 0.5 N·m, Mc: 1.5 N·m			
Weight	0.2kg			
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)			

CAD drawings can be downloaded www.intelligentactuator.com

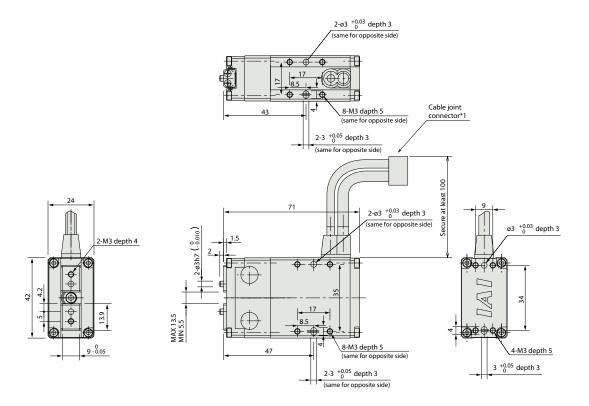
For Special Orders



2D CAD

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

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



Weight (kg)	0.2

① Applicable Contro RCP2 series actuators car		d with the controllers indic	ated below. Select the type according to yo	ur intended applica	tion.	_		
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Calamaid Valua Tura	PIO specification	PMEC-C-20PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
Soleriold valve Type		PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve		- DC24V	Refer to P555	_	→ P547
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)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected					
		PCON-CA-20PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points		Refer to P618	_	
		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	→ P607
		PCON-CA-20PI-®-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	_	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support				_	→ 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	_	→ P665	

*This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V).
* ① indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.

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IAI