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

Model Specification Items

RCP2W - GRLS -

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

The Simple absolute

considered type "I".

I: Incremental

encoder is also

**20P** -

Technical References 30 **- 180 -**

20P: Pulse motor, 30: 1/30 deceleration 20□ size

ratio

180: 180 dearees (90 degrees per side)

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

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

Cable length — Options N: None

NM: Non-motor end P: 1m S: 3m FB: Flange bracket SB: Shaft bracket M:5m X□□:Custom Length

## **■** Gripping Force Adjustment

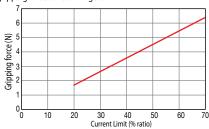
The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.



\* The gripping force of the graph below is measured on the top face of the lever. The actual gripping force drops in inverse proportion to the distance from the opening/closing fulcrum. Calculate the effective gripping force using the formula below.

Effective gripping force (GRLS) =  $F \times 15.5/(L + 15.5)$ 

\* In the graph below, the gripping force value is the sum of gripping forces of both fingers.



\*The gripping force graph above shows the number of references. Please allow margins up to ± 15%.

\* Please note that, when gripping (pushing), the speed is fixed at

# **C** € RoHS

(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.
- (4) Please note that the product has no splash-proof function.

## Actuator Specifications

■ Lead and Payload Maximum Gripping Stroke **Deceleration Ratio** Model number Force (N) (degrees) 180 6.4 RCP2W-GRLS-I-20P-30-180-①-②-③ (3.2 per side) (90 per side)

■ Stroke and Maximum Speed (degrees) eceleration ratio 600

Code explanation ① Applicable controller ② Cable length ③ Options

(Unit: degree/s)

### Stroke

③ Options

selection

Jul one	
Stroke (degrees)	Standard price
100	

### ②Cable Length

Туре	Cable symbol	Standard price		
Standard	<b>P</b> (1m)	_		
(Robot Cables)	<b>S</b> (3m)	_		
(NODOL Cables)	<b>M</b> (5m)	_		
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	_		
Special length	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

ltem	Description		
Drive System	worm gear + helical gear		
Positioning repeatability	±0.01mm		
Backlash	1 degree or less per side (constantly pressed out by a spring)		
Lost motion	0.1 deg (per side) or less		
Guide	_		
Allowable static load moment	_		
Weight	0.2kg		
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		

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

# CAD drawings can be downloaded www.intelligentactuator.com

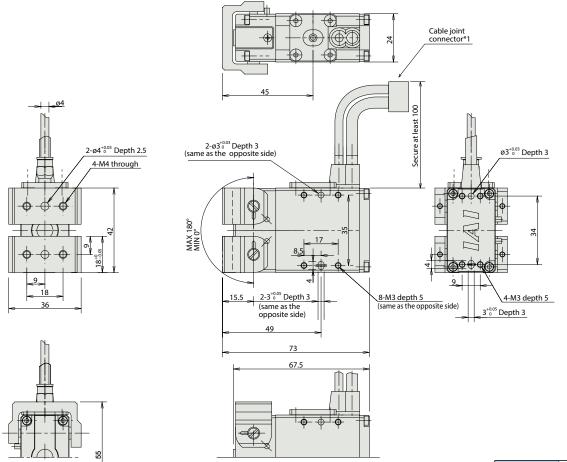
For Special Orders







\* 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 Controllers

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Color (1)(A) or Torre	**	PMEC-C-20PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P53
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	un	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected		- DC24V	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		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

IAI

\*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.

RCP2W-GRLS 516