

# RCP2W-GRSS

ROBO Cylinder 2-Finger Gripper Mini Slider Type 42mm Width Pulse Motor

■ Configuration: **RCP2W** — **GRSS** — **I** — **20P** — **30** — **8** —  —  —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I: Incremental Type 20P: Pulse motor 30: Deceleration 8: 8mm  
 \* The simple absolute encoder 20 □ size ratio 1/30 (One side 4mm)  
 P1: PCON N : None NM: Reversed-home  
 RPCON P : 1m FB: Flange Bracket  
 PSEL S : 3m SB: Shaft Bracket  
 P3: PMEC M : 5m  
 PSEP X □ : Custom Length

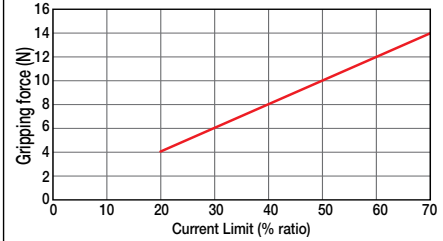
\* See page Pre-35 for explanation of each code that makes up the configuration name.



Technical References P. A-5

- POINT**  
Notes on Selection
- (1) The max. open/close speed represents one side operating speed.
  - (2) The max. grip force will be the sum of the two fingers grip force when the distance for grip point and overhang is 0. The actual work part weight which can be transported depends on the friction constant between finger and work material, and the form; typically it is 1/10~1/20 or less than gripping force. (See page A-74 for details.)
  - (3) The rated acceleration at transportation is 0.3G.
  - (4) Please note that the product has no splash-proof function.

■ Grip Force Arrangement  
 Through push operation the grip force (push force) can be arranged freely within the range of 20%-70% of current limit value of the controller.  
 \* Grip force noted in the figure below is the sum of the grip force of two fingers.



\* Please note when gripping (pushing) is performed the speed will be fixed at 5 mm/s.

### Actuator Specifications

#### ■ Lead and Load Capacity

Model	Deceleration ratio	Max. Grip Force (N)	Stroke (mm)
RCP2W-GRSS-I-20P-30-8-①-②-③	30	14	8 (One side 4)

Legend ① Compatible controller ② Cable length ③ Options

#### ■ Stroke and Maximum Open/Close Speed

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

(Unit: mm/s)

#### ① Stroke List

Stroke (mm)	Standard Price
8	-

#### ② Cable List

Type	Cable Symbol	Standard Price
Standard (Robot Cables)	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	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-39 for cables for maintenance.

#### ③ Option List

Name	Option Code	See Page	Standard Price
Reversed-home	NM	→ A-33	-
Flange Bracket	FB	→ 26	-
Shaft Bracket	SB	→ 36	-

#### Actuator Specifications

Item	Description
Drive System	Worm gear + Helical gear + Helical rack
Positioning Repeatability	±0.01mm
Backlash	0.2 mm or less for one side (stressed by spring on the side which is opened always)
Lost Motion	0.05mm or less one side
Guide	Linear Guide
Statically Allowable Load Moment	Ma:0.5N·m Mb:0.5N·m Mc:1.5N·m
Weight	0.2kg
Ambient Operating Temp./Humidity	0~40°C, 85%RH or less (Non-condensing)

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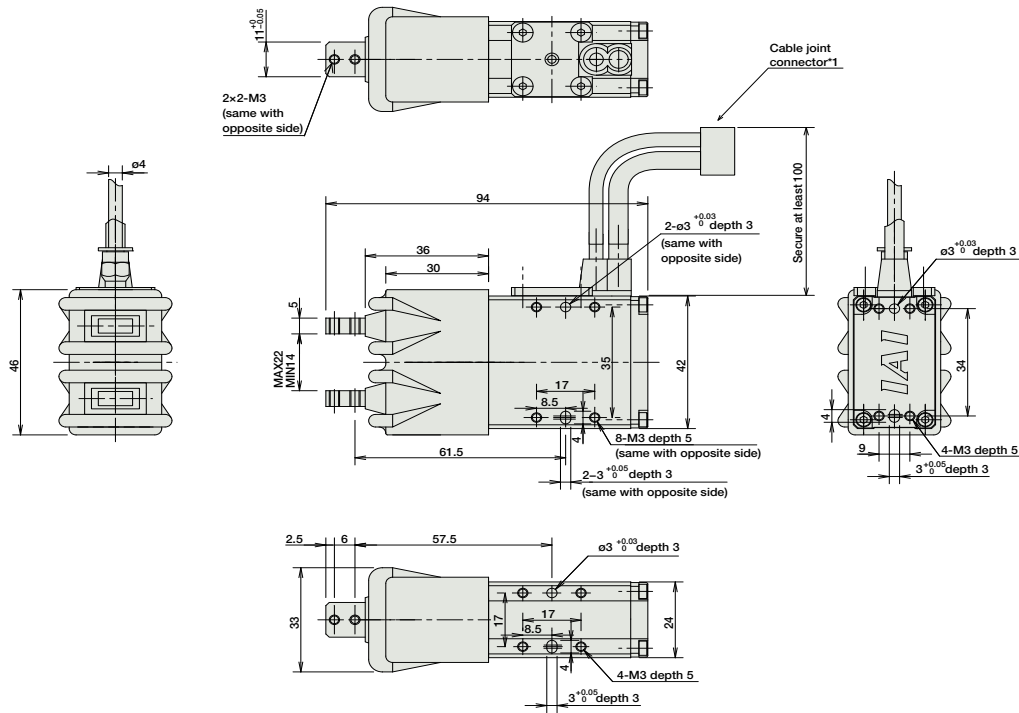
RCP2W-GRSS

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm/Flat Type
- Mini
- Standard
- Gripper/Rotary Type
- Linear Servo Type
- Cleanroom Type
- Splash-Proof
- Controllers
- PMEC/AMEC
- PSEP/ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

Dimensions

For Special Order P. A-9

- \* Open side of slider will be home position.
- \*1 A motor-encoder cable is connected here. See page A-39 for details on cables.



Weight (kg) 0.2

① Compatible Controllers

The RCP2W series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type		PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners.	3 points	AC100V AC200V	See P481	-	→ P477
		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	→ P487
Splash-Proof Solenoid Type		PSEP-CW-20PI-NP-2-0					-	
Positioner Type		PCON-C-20PI-NP-2-0	Positioning possible for up to 512 points	512 points	DC24V	2A max.	-	→ P525
Safety Category Compliant Positioner Type		PCON-CG-20PI-NP-2-0					-	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-NP-2-0	Differential line driver support Pulse Train Input Type	(-)	DC24V	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Open Collector Pulse Train Input Type				-	
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-20P	Dedicated to field network	768 points			-	→ P503
Program Control Type		PSEL-C-1-20PI-NP-2-0	Programmed operation is possible Can operate up to 2 axes	1500 points			-	→ P557

\* This is for the single-axis PSEL.  
 \* ① is a placeholder for the power supply voltage (1:100V / 2:100-240V).



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