RCP2CR-GRSS
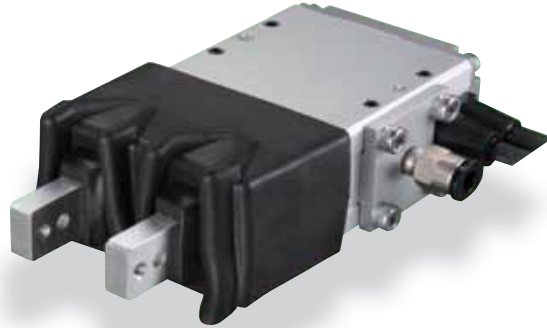Cleanroom ROBO Cylinder　2-Finger Gripper　Mini Slider Type　42mm Width　Pulse motor

■ Configuration:

RCP2CR— GRSS — I — 20P — 30 — 8 — ☐ — ☐ — ☐

Series	Type	Encoder	Motor	Deceleration Ratio	Stroke	Compatible Controllers	Cable Length	Option
		I: Incremental * The simple absolute encoder is also considered type "I".	20P: Pulse motor 20 ☐ size	30 : 1/30 deceleration ratio	8: 8mm (4mm per side)	P1: PCON RPCON PSEL P3: PMEC PSEP	N : None P : 1m S : 3m M : 5m X ☐☐ : Custom	NM:Reversed-home FB:Flange bracket SB:Shaft bracket

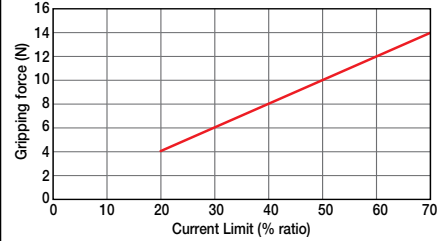* See page Pre-35 for an explanation of the naming convention.

■ Gripping Force Adjustment

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

* The gripping forces in the following diagrams indicate the sum of the gripping forces of both fingers.

Technical References ☞ P. A-5

* Please note that, when gripping (pushing), the speed is fixed at 5mm/s.

POINT Notes on Selection

(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 distance of 0mm and no overhang distance. The workpiece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the workpiece, as well as on the shape of the workpiece. As a rough guide, a workpiece's weight should not exceed 1/10 to 1/20 of the gripping force. (See page A-74 for details.)

(3) The rated acceleration while moving is 0.3G.

Actuator Specifications

■ Lead and Load Capacity

Model	Deceleration Ratio	Max. Gripping Force (N)	Stroke (mm)
RCP2CR-GRSS-I-20P-30-8-①-②-③	30	14	8 (4 per side)

Legend: ① Compatible controllers　② Cable length　③ Options

■ Stroke, Max. Opening/Closing Speed, and Suction Volume

Stroke / Deceleration Ratio	8 (mm)	Suction Volume (Nl/min)
30	78	10

(Unit: mm/s)

① Stroke List

Stroke (mm)	Standard Price
8	–

② Cable List

Type	Cable Symbol	Standard Price
Standard Type (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	→ A-26	–
Shaft bracket	SB	→ A-36	–

Actuator Specifications

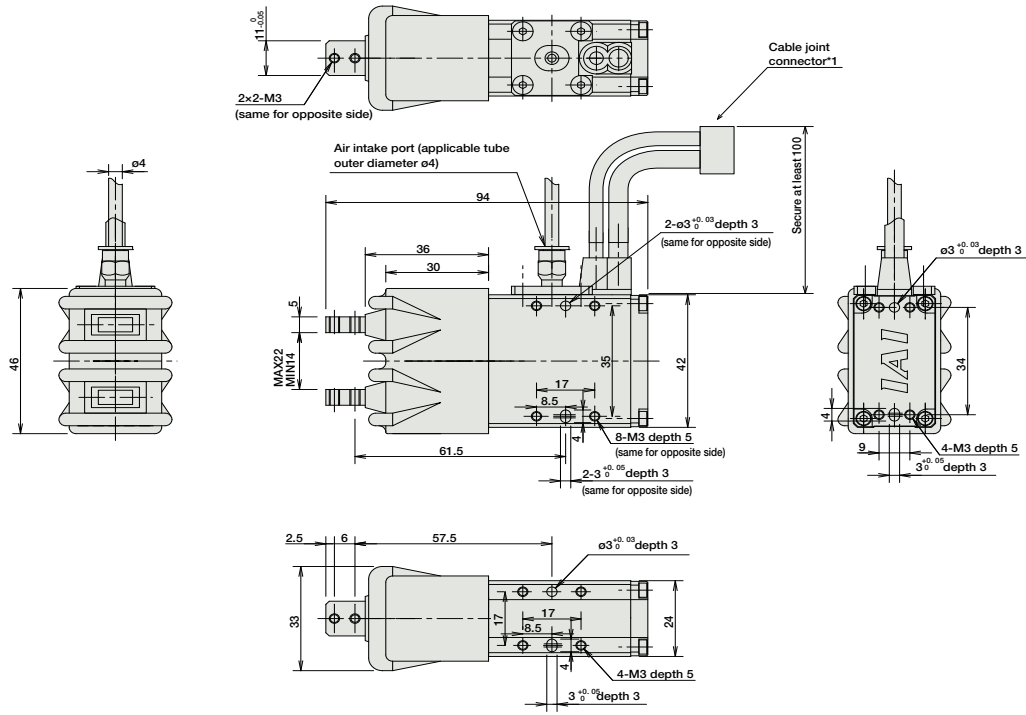| Item	Description
Drive System	Worm gear + helical gear + helical rack
Positioning Repeatability	±0.01mm
Backlash	0.2mm or less per side (constantly pressed out by a spring)
Lost Motion	0.05mm or less per side
Guide	Linear guide
Allowable Static Load Moment	Ma: 0.5N·m　Mb: 0.5N·m　Mc: 1.5N·m
Weight	0.2kg
Cleanliness	Class 10 (0.1μm)
Ambient Operating Temp./Humidity	0〜40°C, 85% RH or less (non-condensing)

Dimensions

For Special Orders 👉 P. A-9

* The opening side of the slider is the home position.
* 1 The motor-encoder cable is connected here. See page A-39 for details on cables.

| | Weight (kg) | 0.2 |

① Compatible Controllers

The RCP2CR 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		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.	3 points			–	→ P487
Splash-Proof Solenoid Valve Type		PSEP-CW-20PI-NP-2-0					–	
Positioner Type		PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points	512 points			–	→ P525
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0					–	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	(–)	DC24V	2A max.	–	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support				–	
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 Operation is possible on 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).

IAI

RCP2CR-GRSS **412**