CP2-GRS

ROBO Cylinder 2-Finger Gripper Mini Slider Type 69mm Width Pulse Motor

■ Configuration:

RCP2- GRS -

20P

1: 1/1

Pulse motor deceleration ratio (5mm per side)

20P : 20 □ size

10

10: 10mm

P1: PCON

RPCON

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

SB:Shaft bracket FB:Flange bracket

PSEL PSEP

M:5m
X : Custom
R : Robot cable

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



I: Incremental * The Simple

absolute encoder

is also considered

P. A-5

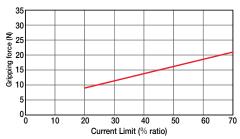
- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this
- The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point where there is no offset or overhang distance. The work piece weight that can 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 170 to 1/20 of the gripping force.

 (See page A-74 for details.)
- (3) The rated acceleration while moving is 0.3G.

■ 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 sums of gripping forces of both fingers.



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

Actuator Specifications ■ Lead and Load Capacity

Deceleration Max. Gripping Stroke Model Ratio Force (N) 10 RCP2-GRS-I-20P-1-10-1 - 2 - 3 1 21 (5 per side) ■ Stroke and Maxi. Opening/Closing Speed Stroke 10 33.3

Legend: ① Compatible controllers ② Cable length ③ Options

(Unit: mm/s)

Stroke List

Stroke (mm)	Standard Price
10	_

② Cable List

Actuator Specifications

Туре	Cable Symbol	Standard Price	
	P (1m)	_	
Standard Type	S (3m)	-	
	M (5m)	-	
	X06 (6m) ~ X10 (10m)	-	
Special Lengths	X11 (11m) ~ X15 (15m)	-	
	X16 (16m) ~ X20 (20m)	-	
	R01 (1m) ~ R03 (3m)	_	
	R04 (4m) ~ R05 (5m)	-	
Robot Cable	R06 (6m) ~ R10 (10m)	-	
	R11 (11m) ~ R15 (15m)	-	
	R16 (16m) ~ R20 (20m)	_	

^{*} See page A-39 for cables for maintenance.

③ Option List Name **Option Code** Standard Price See Page Flange bracket FΒ → A-26 Shaft bracket → A-36

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 Temp./Humidity 0~40°C, 85% RH or less (non-condensing)

Dimensions

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

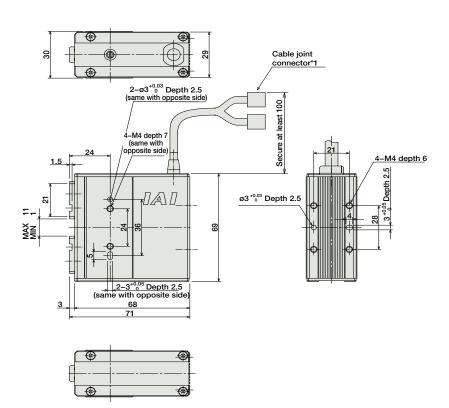
For Special Order







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



10-0.05 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

1	Compat	tible C	ontroll	ers

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	1	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Solenoid valve Type		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	- → P487	
Splash-Proof Solenoid Valve Type	T T	PSEP-CW-20PI-NP-2-0	No homing necessary with simple absolute type.				-		
Positioner Type		PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	1 Contouring is possible for up to 312 points	312 points			-		
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.	-	→ P525		
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support	(-)			-		
Serial Communication Type	Í	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	E	PSEL-C-1-20PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557	

IAI

RCP2-GRS 338

^{*} This is for the single-axis PSEL.

* ① is a placeholder for the power supply voltage (1: 100V, 2: 100~240V).