Cleanroom ROBO Cylinder, 3-finger Gripper, Slider Type, 62mm Width, Pulse Motor

Dust-proof ROBO Cylinder, 3-finger Gripper, Slider Type, 62mm Width, Pulse Motor

■ Model Specification Items

RCP2W Series

RCP2CR: Cleanroom

RCP2W: Dust-proof

GR3SS Type

Motor

28□size

I: Incremental 28P: Pulse motor

Encoder

30 celeration Ratio

30: Deceleration

ratio 1/30

10 Opening/ **Closing Stroke** 10: 10mm

finger)

Applicable Controllers

MSEP

P1: PCON-PL/PO/SE PSEL P3: PCON-CA PMEC/PSEP

Cable Length N: None

S: 3m M: 5m X

Custom R□□: Robot cable

Options FB:Flange bracket SB:Shaft bracket VL:L-shaped vacuum joint specification

RoHS



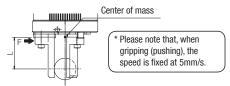
* The figure above shows the Cleanroom Type. There is no air vacuum joint equipped on the Dust-proof Type.



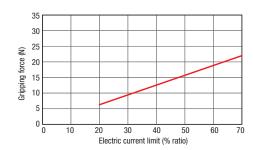
- (1) The maximum gripping force is the sum of gripping forces of all fingers at gripping point 0 (*) and with overhang distance 0. For the actual transportable work part weight, refer to the
 - * The gripping point 0 should be the center of mass in the drawing.
- (2) Refer to "How to Select Gripper" at the end of the ROBO Cylinder General Catalog for how to select a gripper.
- (3) The rated acceleration while moving is 0.3G.

■ Correlation Diagram of Gripping Force and Electric Current Limit

By pressing motion, the gripping (pushing) force can be adjusted freely within the range of electric current limits of 20% to 70%.



- * Keep L within 50mm from the center of mass.
- * The gripping force in the graph below assumes that L in the figure above is zero. Also note that the gripping force is a sum of gripping forces of all fingers.



* The gripping force graph above shows reference numbers. Please allow margins up to ±15%.

Actuator Specifications

■Max. Gripping Force and Stroke

Model Number	Deceleration Ratio	Max. Gripping Force	Stroke (mm)
RCP2CR-GR3SS-I-28P-30-10-11-22-33	20	22	10
RCP2W-GR3SS-I-28P-30-10-①-②-③	30	(7.3 per finger)	(5 per finger)

■Stroke and Max. Opening/Closing Speed / Suction Amount

Stroke Deceleration Ratio	10 (mm)	Suction Amount (*)	
30	40mm/s	10Nℓ/min	

* For Cleanroom Type

Legend: Applicable controllers Cable length Options

Stroke		
Stroke (mm)	Specification	Standard Price
10	Cleanroom	_
10	Dust-proof	_

2 Cable Length

	Cable Code	Standard Price		
Туре		Applicable Controller Code		
		P3	P1	
	P (1m)	_	_	
Standard Type	S (3m)	_	_	
	M (5m)	_	_	
	X06 (6m) ~ X10 (10m)	_	_	
Special Length	X11 (11m) ~ X15 (15m)	_	_	
	X16 (16m) ~ X20 (20m)	_	_	
Robot Cable	R01 (1m) ~ R03 (3m)	_		
	R04 (4m) ~ R05 (5m)	_	Robot cable is standard for P1	
	R06 (6m) ~ R10 (10m)	_		
	R11 (11m) ~ R15 (15m)	_		
	R16 (16m) ~ R20 (20m)	_		

3 Options

Name	Option Code	Standard Price
Flange Bracket	FB	_
Shaft Bracket	SB	_
L-shaped Vacuum Joint Specification (Cleanroom Only)	VL	_

<Option Code>

- FB...Bracket only: RCP2-FB-GR3S
- SB...Bracket only: RCP2-SB-GR3S
- * Check the size of the bracket in the option explanation at the end of the ROBO Cylinder General Catalog.

Actuator Specifications

Item	Description				
Series	Cleanroom Dust-proof				
Drive System	Worm gear + Worm wheel gear				
Positioning Repeatability	±0.01mm				
Backlash	0.3mm or less per finger (constantly pressed out by a spring)				
Lost Motion	0.1mm or less per finger				
Allowable Static Load Moment	Ma: 3.8N·m Mb: 3.8N·m Mc: 3.0N·m				
Guide	Cross roller guide				
Cleanliness	Class 10 (0.1µm) —				
IP Code	— IP50				
Weight	0.7kg				
Operating Environment	Temperature 0~40°C Humidity 20~85% BH or less (non-condensing)				

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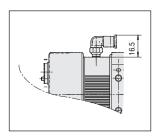


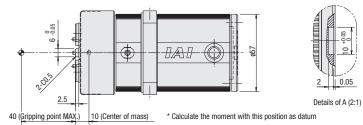


- *The opening side of the slider is the home position.

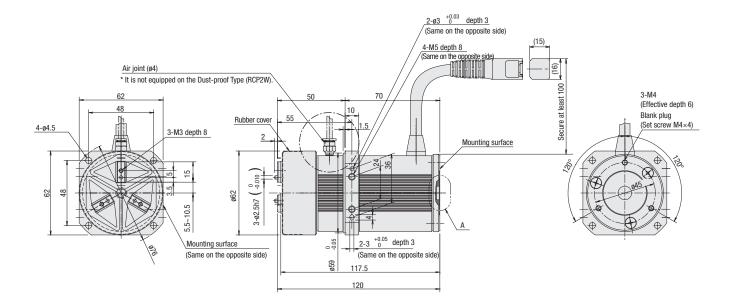
 *Shown below is a drawing for the Cleanroom Type. There is no air vacuum joint equipped on the Dust-proof Type.

 *The actuator pigtail is not a robot cable.





L-shaped vacuum joint specification



Weight (kg)	0.7

Name	External View	Model Number	Features	Max. Pos. Points	Input Voltage	Power Supply Capacity	Standard Price
Solenoid Valve Multi-axis Type (PIO Specification)	1,,,,4	MSEP-()-()-~-()-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected	3 points			
Solenoid Valve Multi-axis Type (Network Specification)		MSEP-(II)-(III)-~-(IV)-0-0	Field network ready positioner type, allowing up to 8 axes to be connected	256 points			-
Positioner Type High-output Specification	f	PCON-CA-28P(V)-(1)-2-0	Equipped with high-output driver Positioner type based on PIO control	512 points			-
Pulse Train Type High-output Specification		PCON-CA-28PWAI-PL□-2-0	Equipped with high-output driver Pulse train input type	-		0 0000	-
Network Type High-output Specification		PCON-CA-28P(V)-(W)-0-0	Equipped with a high-output driver Supports 8 major field networks	768 points	DC24V	See ROBO Cylinder General Catalog	-
Pulse Train Type (Differential Line Driver Specification)		PCON-PL-28PI-①-2-0	Pulse train input type with differential line driver support			donoral catalog	-
Pulse Train Type (Open Collector Specification)		PCON-PO-28PI-①-2-0	Pulse train input type with open collector support	-			-
Serial Communication Type		PCON-SE-28PI-N-0-0	Dedicated serial communication	64 points			-
Program Control Type		PSEL-CS-1-28PI-①-2-0	Program operation is possible for up to 2 axes	1500 points			-

- * (III) indicates number of axes (1~8). * (IV) indicates field network specification code.
- * \bigcirc indicates encoder type. Enter WAI for incremental specification and SA for simple absolute specification.