CP4-GRSMI

RoboCylinder 2-Finger Gripper Vertical Medium Slider Type 54 mm Width Pulse Motor

Model
Description

28P Motor

28P: 28 □ size

Pulse motor

30 — 14 Stroke -14:14 mm

Deceleration (7 mm per side)

30:1/30

ratio

P3 Compatible Controllers

P3: PCON-CA

MSEP-C

N : None P:1m S:3m M:5m

Notes on Selection AC1: Actuator cable 1 m

NM: Non-motor end specification

X □□ : Custom R □□ : Robot cable

C ∈ RoHS





I: Incremental

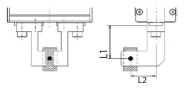
* The Simple absolute encoder is also considered type "I."



- (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 part weight that can be actually moved depends on the friction coefficient between the gripper fingers and the work part, as well as on the shape of the work part. As a rough guide, a work part's weight should not exceed 1/10 to 1/20 of the gripping force. (See page 25 for details.)
- (3) The rated acceleration while moving is 0.3 G.

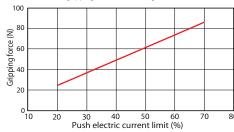
■ Gripping Force vs. Electric Current Limit

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



- * Operate with the L1 distance under 80 mm.

 * The gripping force in the graph below assumes that L1 and L2 the figure above are zero. (Refer to p. 26 for the rough guide gripping force at each distance of L1.) Also note that the gripping force is a sum of gripping forces of both fingers.



- * The gripping force graph above shows the number of references. Please allow margins up to $\pm 15\%$
- * Please note that, when gripping (pushing), the speed is fixed at 5 mm/s.

Actuator Specifications

■ Lead and Payload

Cable List

Model Number	Deceleration	Max. Gripping	Stroke	
	Ratio	Force (N)	(mm)	
RCP4-GRSML-I-28P-30-14-P3- 11 - 2	30	87 (43.5 per side)	14 (7 per side)	

Legend: 1 Cable length 2 Options

■ Stroke and Max. Opening/Closing Speed

Stroke (mm)	Max. Speed (mm/s)		
14	94		

Cable Symbol **P** (1m) Standard Type **S** (3m) **M** (5m) **X06** (6m) ~ **X10** (10m) Special Length **X11** (11m) ~ **X15** (15m) **X16** (16m) ~ **X20** (20m) **R01** (1m) ∼ **R03** (3m) **R04** (4m) \sim **R05** (5m) **R06** (6m) ~ R10 (10m) Robot Cable **R11** (11m) ~ **R15** (15m) **R16** (16m) ~ **R20** (20m)

Option List						
Name	Option Code	See Page				
Actuator Cable 1 m	AC1	P12				
Non-motor end specification	NM	P12				

Actuator Specifications

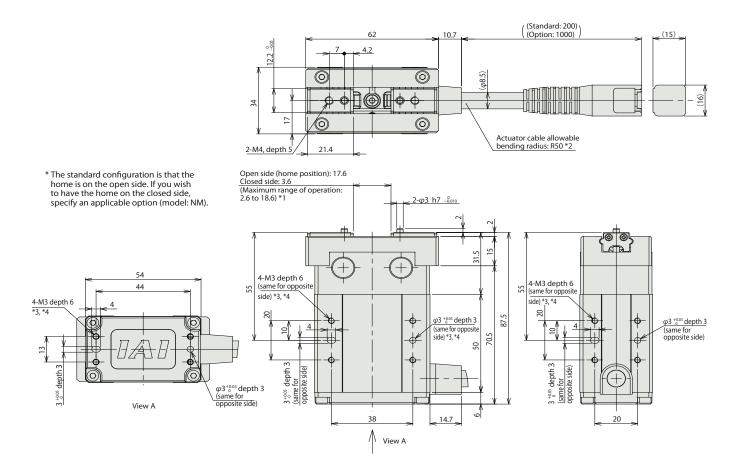
Description				
Worm gear + helical gear + helical rack				
±0.01 mm				
0.3 mm or less				
0.15 mm or less per side				
Linear guide				
Ma: 1.9N•m Mb: 2.7N•m Mc: 4.6N•m				
0.5 kg				
midity 0 to 40°C, 85% RH or less (non-condensing)				

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- *1 This is the maximum range over which the finger operates during home return operation, etc. Be careful not to let the finger contact the customer's finger, any nearby work part, etc.
- *2 The actuator cable is a robot cable.
- *3 Use all tap holes (4 locations) on the same mounting surface to secure the actuator.
- *4 Do not screw in the bolt beyond the depth of the fixing tap hole. The internal parts may be damaged.
- * The standard length of the actuator cable is 200 mm. The cable length can be changed to 1000 mm by selecting an applicable option (model: AC1).



Compatible Controllers

The RCP4 series actuators can operate with the controllers below. Select the controller according to your usage.

Nam	ne	External View	Model Number	Description	Max. Pos. Points	Input Voltage	Power Supply Capacity	See Page
Solenoid \ Multi-axis PIO Specif	Type	1111	MSEP-C- ③ -~- ① -2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected	3 points	DC24V	See RoboCylinder General Catalog.	
Solenoid Va Multi-axis T work Specif	ype Net-		MSEP-C- ③ -~- ④ -0-0	Filed network-ready positioner type, allowing up to 8 axes to be connected	256 points			
Positioner	Type		PCON-CA-28PI- ① -2-0	PIO control ready	512 points		2.2 A max.	→ P29
Pulse Train	n Type		PCON-CA-28PI-PL□-2-0	Pulse-train input ready				
Network T	Гуре		PCON-CA-28PI- ④ -0-0	Field network ready	768 points			

- * ① indicates I/O type (NP/PN).
- * 4 indicates field network specification symbol.
- *③ indicates number of axes (1~8).
 *□ indicates N (NPN specification) or P (PNP specification) symbol.