

RCP2-GRST

ROBO Cylinder, 2-Finger Gripper, Long Stroke Slide Type, Actuator Width 130~190mm, Pulse Motor

Model Specification Items: RCP2 — GRST — I — 20P — [] — [] — [] — [] — []

Series — Type — Encoder type — Motor type — Deceleration Ratio — Stroke — Applicable controller — Cable length — Options

I: Incremental 20P: Pulse motor, 1: 1/1 deceleration ratio High-Speed Type 2: 1/2 deceleration ratio Standard Type

40: 40mm 60: 60mm 80: 80mm 100: 100mm

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

N: None P: 1m S: 3m M: 5m X []: Custom Length

See Options below. * Be sure to specify the side from which you want the cable to exit (A0 or A1).

* See page Pre-47 for details on the model descriptions.



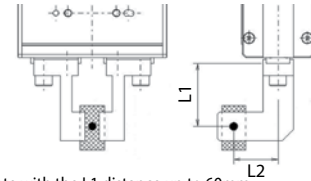
Technical References Appendix P.5



- (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 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 1/10 to 1/20 of the gripping force. (See page A-86 for details.)
- (3) The rated acceleration while moving is 0.3G.

Gripping Force vs. Current Limit

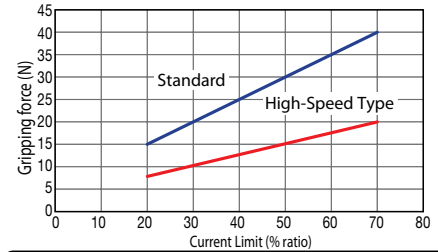
The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.



* Operate with the L1 distance up to 60mm.

* The gripping force value in the graph below is when both L1 and L2 are at 0 mm. (For gripping force reference per L1 distance, see page A-87.)

The gripping force value is the sum of gripping forces of both fingers.



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

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

Actuator Specifications

Leads and Payload

Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (mm)
RCP2-GRST-I-20P-1-①-②-③-④	1	20 (10 per side)	40~100 (every 20mm)
RCP2-GRST-I-20P-2-①-②-③-④	2	40 (20 per side)	

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options

Stroke and Max. Opening/Closing Speed

Stroke Deceleration ratio	40~100 (mm)
	75
2	34

(Unit: mm/s)

① Stroke

Stroke (mm)	Standard price
40	—
60	—
80	—
100	—

③ Cable Length

Type	Cable symbol	Standard price
Standard (Robot Cables)	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	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-59 for cables for maintenance.

④ Options

Name	Option code	See page	Standard price
Non-motor end specification	NM	→ A-52	—
Cable exiting from bottom	A0	→ A-41	—
Cable exiting from side	A1	→ A-41	—

* Be sure to specify the side from which you want the cable to exit (A0 or A1).

Actuator Specifications

Item	Description
Drive System	Timing belt + worm/rack gear
Positioning repeatability	±0.01mm
Backlash	0.2mm or less per side
Lost motion	—
Guide	Linear guide
Allowable static load moment	Ma: 2.93 N·m, Mb: 2.93 N·m, Mc: 5.0 N·m
Weight	0.51kg (40-stroke) ~ 0.66kg (100-stroke)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

