

ROBO Cylinder Long-Stroke Gripper

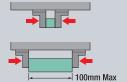
RCP2-GRST



Features

Long Strokes up to 100mm (50mm on each side)

The long-stroke actuator can support works of significantly varying sizes and shapes. Four standard strokes of 40mm, 60mm, 80mm and 100mm are available.



Migh Gripping Forces up to 40N

With the standard type, the maximum gripping force is 40N, which is twice the maximum gripping force of the GRS gripper.

High-Speed Specification with Higher Opening/Closing Speeds

You can select a desired model from the two types of the viewpoint of opening/closing speed: the high-speed type whose

max opening/closing speed is 75mm/s, or the standard type whose max opening/closing speed is 34mm/s.



Selectable Cable Exit Direction

The cable exit direction is selectable. Choose either a side exit or a bottom exit.



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Model Designation RCP2 -**GRST** -**20P** 2 Open/Close Stroke Applicable Controller Cable Length (Total Stroke) Series **Encoder Model** Motor Type Gear Ratio Option I: Incremental 2: Standard Type P1:PCON N: None NM: Reversed-Home Specification 40:40mm 1 : High-Speed Type 60 : 60mm A0 : Bottom Cable Exit **PSEL** P:1m **RPCON S**:3m A1 : Side Cable Exit GRST: Long-Stroke Type 20P: Pulse Motor, Size 80:80mm M:5m *Be sure to specify "A0" or "A1" 100:100mm X .: Specified Length as the cable exit direction.

Models

Type	Model
Standard Type	RCP2-GRST-I-20P-2-40-P1-①-②
	RCP2-GRST-I-20P-2-60-P1-①-②
	RCP2-GRST-I-20P-2-80-P1-①-②
	RCP2-GRST-I-20P-2-100-P1-①-②
High-Speed Type	RCP2-GRST-I-20P-1-40-P1-①-②
	RCP2-GRST-I-20P-1-60-P1-①-②
	RCP2-GRST-I-20P-1-80-P1-①-②
	RCP2-GRST-I-20P-1-100-P1-①-②

^{*}In the above model names, [1] indicates the cable length and [2] indicates the options.

Specifications

Specs	Specifications		
Specs	Standard Type	High-Speed Type	
Open/Close Stroke (Total) (mm)	40/60/	′80 / 100	
Max Gripping Force(N)	40	20	
Max Open/Close Speed (mm/s)	34 (each side)	75 (each side)	
Positioning Repeatability (mm)	±0.01		
Backlash (mm)	0.2mm Ma	x each side	
Static Allowable Moment (N·m)	Ma: 2.93 Mb	2.93 Mc:5.0	
Actuator Mass	Refer to the table unde	er External Dimensions	
Applicable Controllers	PCON/PSEL/F	RPCON (ROBONET)	

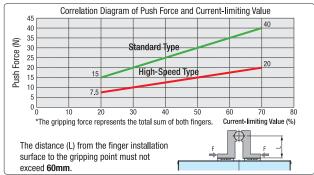
Cables

Туре	Model
Standard Type	P(1m)
(Robot Cable)	S(3m)
(nobot Gable)	M (5m)
	X06(6m) ~X10(10m)
Special Length	X11 (11m) ~X15 (15m)
' ====	X16(16m) ~X20(20m)

^{*}The standard integrated motor/encoder cable is a robot cable.

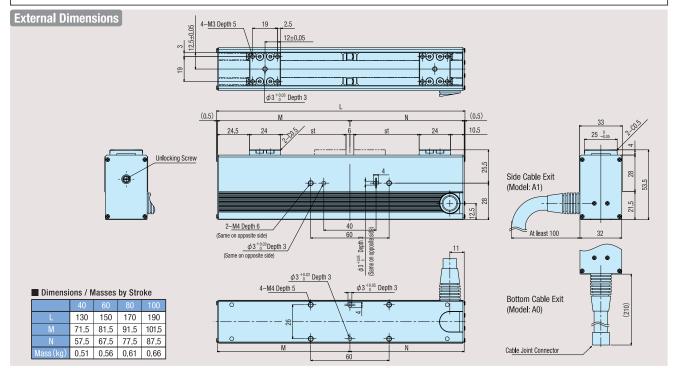
Adjustment of Gripping Force

You can freely adjust the gripping force according to the applicable push-motion operation within a range of 20 to 70% in controller current-limiting values. (See graph below)





- The precision of the relationship between push force (gripping force) and current-limiting value is not quaranteed. The above graph should be used only as a guide.
- Take note that if the push force is too small, the push force may vary or malfunction may occur depending on the slide resistance, etc. Make sure the current-limiting value is set
- Keep the fingers as small and light as possible. If the fingers are long and large or heavy, the performance may drop or the guide may be negatively affected.



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^{*}Replacement Cable Model:CB-PCS-MPA (() indicates cable length.