

RCP2-SA6

ROBO Cylinder Slider Type: Unit Width 58mm, Pulse Motor, Straight Shape



Type Slider (58mm wide) Stroke 50~600mm Load capacity 12kg (horizontal)/6kg (vertical)

Model Specification Items Series Type Encoder type Motor Lead Stroke Applicable controller Cable length Options
 (Example) RCP2 - SA6 - I - PM - 6 - 600 - P1 - S - BE

* Refer to page 37 for the details of the model specification items.

* The maximum speed limit of the RCP2 Series will vary according to the weight of the load on the slider (rod). Refer to Correlation Diagrams of Speed and Load Capacity on page 27.

Model/Specifications

Model	Encoder type	Motor	Lead (mm)	Stroke 50mm increments (mm)	Speed (Note 1) (mm/s)	Load capacity (Note 2)	
						Horizontal (kg)	Vertical (kg)
RCP2-SA6-○-PM-12-***-P1-△-□	Absolute Incremental	Pulse motor	12	50~600	10~600	6	1.5~1
RCP2-SA6-○-PM-6-***-P1-△-□			6		5~300	12	3~2.5
RCP2-SA6-○-PM-3-***-P1-△-□			3		1~150	12	6~4

* In the above model names, ○ indicates the encoder type, *** the stroke, △ the cable length, and □ the applicable options.

Options

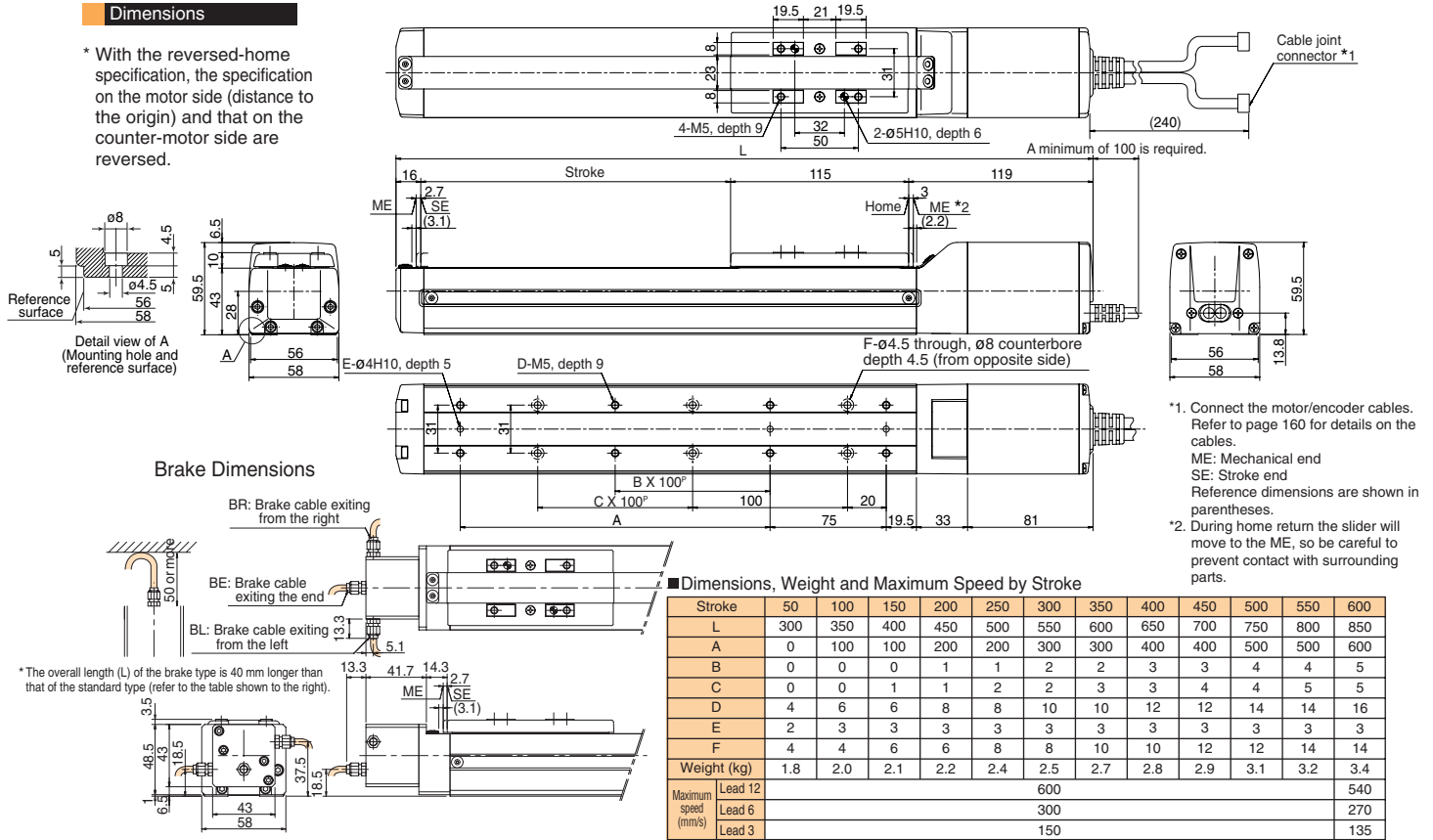
Name	Model	Page
Brake (Cable exiting the end)	BE	→P137
Brake (Cable exiting from the left)	BL	→P137
Brake (Cable exiting from the right)	BR	→P137
Reversed-origin specification	NM	→P137

Common Specifications

Drive system	Ball screw ϕ 10mm, rolled C10
Positioning repeatability	\pm 0.02mm
Backlash	0.1mm or less
Guide	Integrated with base
Allowable load moment	Ma: 8.9N · m Mb: 12.7N · m Mc: 18.6N · m
Overhung load length	Ma/Mb/Mc directions: 220mm or less
Base	Material: Aluminum with white alumite treatment
Cable length (Note 3)	N: No cable, P: 1m, S: 3m, M: 5m, X□□: Length specification, R□□: Robot cable

Dimensions

* With the reversed-home specification, the specification on the motor side (distance to the origin) and that on the counter-motor side are reversed.



Applicable Controller Specifications

Applicable Controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Power-supply voltage	Page
RCP2-C	1 axis	Absolute Incremental	X	O	X	24VDC	→P151
RCP2-CG	1 axis		X	O	X		→P151

Caution

(Note 1) A longer stroke will result in a lower maximum speed to prevent the ball screw from reaching a dangerous speed. (Refer to the above table for the maximum speed at a given stroke.)

(Note 2) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 mm or in the case of a vertical application). The maximum cable length is 15 m for the absolute type and 20 m for the incremental type. Specify the desired length in meters (e.g., X08 = 8 m).

(Note 3)

* Refer to page 23 for other points to note.