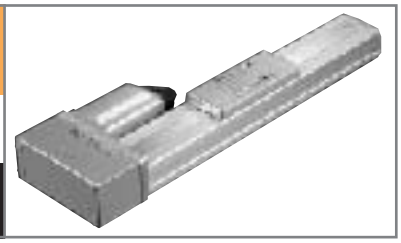
RCP2-SSR

ROBO Cylinder Slider Type with Iron Base: Unit Width 60mm, Pulse Motor, Motor-Reversed Shape

Type: Slider (60mm wide), motor-reversing | Stroke: 100~600mm | Load capacity: 30kg (horizontal)/10kg (vertical)



■ Model Specification Items — Series | Type | Encoder type | Motor | Lead | Stroke | Applicable controller | Cable length | Options

(Example) RCP2 - SSR - I - PM - 6 - 600 - P1 - S - B

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

Model/Specifications

* 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	Encoder type	Motor	Lead (mm)	Stroke 100mm increments (mm)	Speed (Note 1) (mm/s)	Load capacity (Note 2) Horizontal (kg)	Load capacity (Note 2) Vertical (kg)
RCP2-SSR-○-PM-12-★★★-P1-△-□	Absolute Incremental	Pulse motor	12	100~600	10~600 <440>	20~5.5	4~0.5
RCP2-SSR-○-PM-6-★★★-P1-△-□			6		5~250	20~2.5	5~0.5
RCP2-SSR-○-PM-3-★★★-P1-△-□			3		1~105	30~20	10~1.5

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

Options

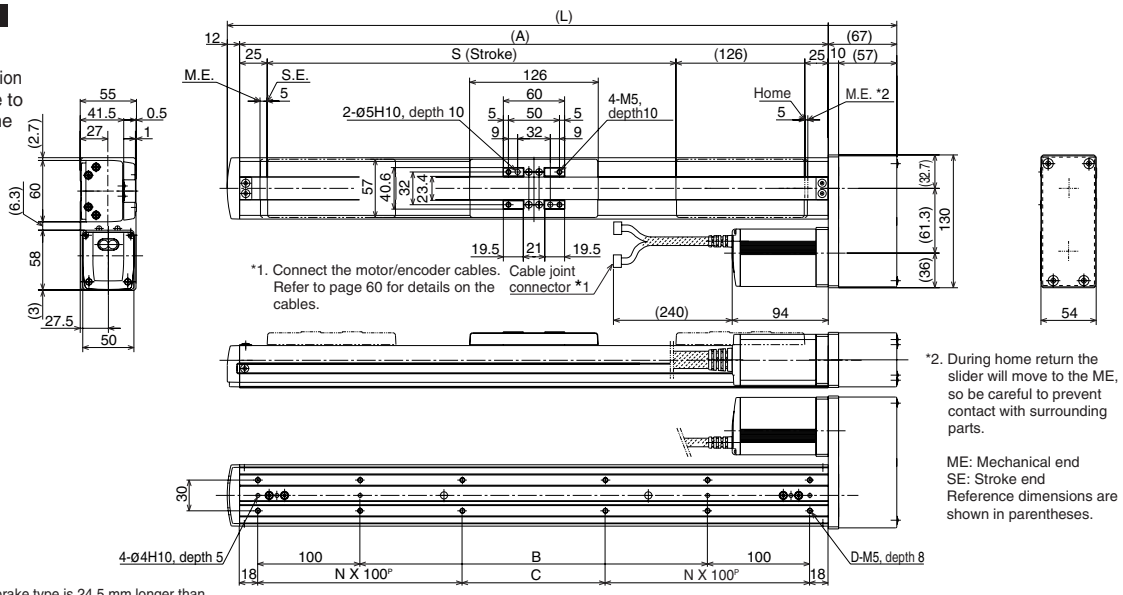
Name	Model	Page
Brake	B	→P137
Inverse motor-reversing direction	R	→P137
Reversed-origin specification	NM	→P137

Common Specifications

Drive system	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.05mm or less
Guide	Integrated with base
Allowable load moment	Ma: 14.7N • m Mb: 14.7N • m Mc: 33.3N • m
Overhung load length	Ma/Mb/Mc directions: 300mm or less
Base	Material: Special alloy steel
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.
* The reference surface is the same as with the SS type (refer to page 65).



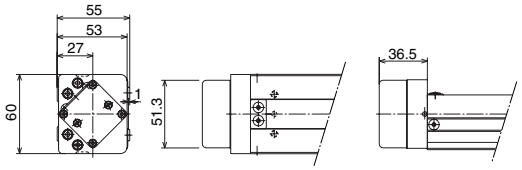
*1. Connect the motor/encoder cables. Refer to page 60 for details on the cables. Cable joint connector *1

*2. During home return the slider will move to the ME, so be careful to prevent contact with surrounding parts.

ME: Mechanical end
SE: Stroke end
Reference dimensions are shown in parentheses.

Brake Dimensions

* The overall length (L) of the brake type is 24.5 mm longer than that of the standard type (refer to the table shown to the right).



* The brake cable is routed inside the actuator and is connected to the motor cable.

■ Dimensions, Weight and Maximum Speed by Stroke

Stroke	100	200	300	400	500	600
L	355	455	555	655	755	855
A	276	376	476	576	676	776
B	40	140	240	340	440	540
C	40	140	40	140	40	140
D	8	8	12	12	16	16
N	1	1	2	2	3	3
Weight (kg)	4.1	4.7	5.4	6.1	6.7	7.4
Maximum speed (mm/s) (Note 1) Lead 12	600 (440)					470 (440)
Lead 6	250					230
Lead 3	105					105

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. The figures in ( ) apply to a vertical application.
(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).
(Note 3) 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).

* Refer to page 23 for other points to note.