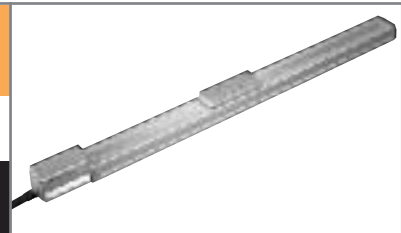


RCP2-SS

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



Type / Slider (60mm wide) Stroke / 100~600mm Load capacity / 30kg (horizontal)/12kg (vertical)

Model Specification Items: Series Type Encoder type Motor Lead Stroke Applicable controller Cable length Options
 (Example) RCP2 - SS - 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) | Vertical (kg) |
| RCP2-SS-○-PM-12-***-P1-△-□ | Absolute Incremental | Pulse motor | 12 | 100~600 | 10~600 | 30~6 | 4~1 |
| RCP2-SS-○-PM-6-***-P1-△-□ | | | 6 | | 5~300 | 30~20 | 8~2 |
| RCP2-SS-○-PM-3-***-P1-△-□ | | | 3 | | 1~150 | 30~20 | 12~4 |

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

Options

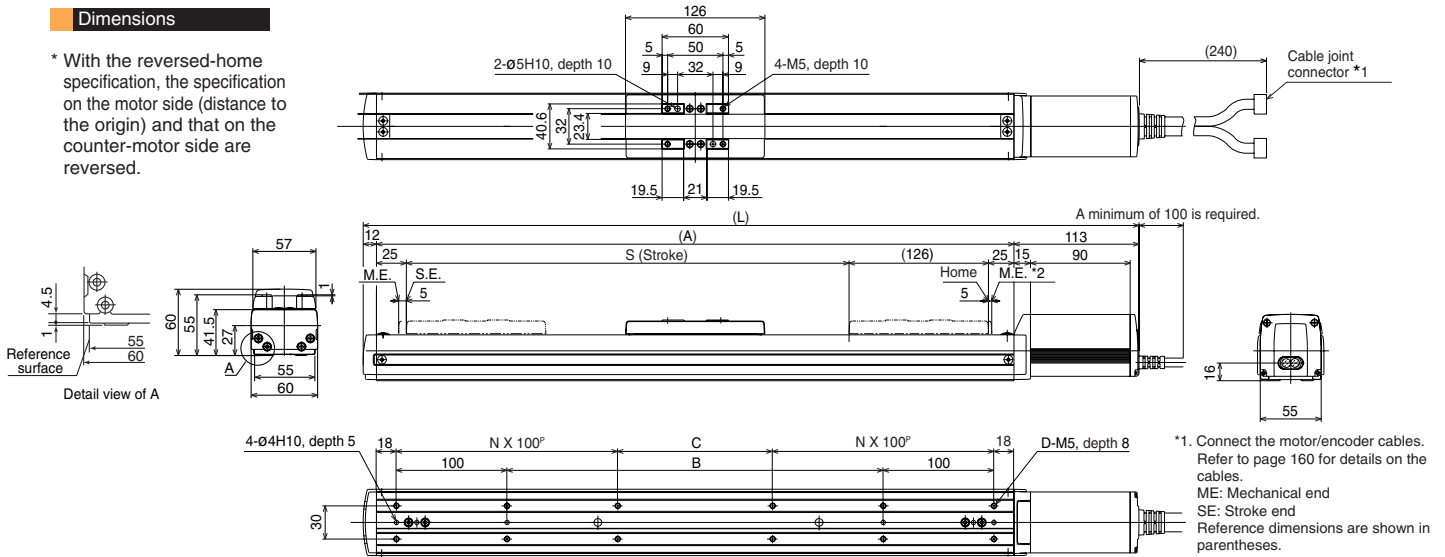
| Name | Model | Page |
|-------------------------------|-------|-------|
| Brake | B | →P137 |
| Reversed-origin specification | NM | →P137 |

Common Specifications

| | |
|---------------------------|---|
| Drive system | Ball screw ϕ 10mm, rolled C10 |
| Positioning repeatability | \pm 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 |

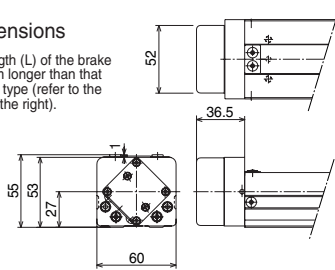
Dimensions

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



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).



Dimensions, Weight and Maximum Speed by Stroke

| Stroke | 100 | 200 | 300 | 400 | 500 | 600 |
|----------------------|---------|-----|-----|-----|-----|-----|
| L | 401 | 501 | 601 | 701 | 801 | 901 |
| 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 |
| E | 1 | 1 | 2 | 2 | 3 | 3 |
| Weight (kg) | 3.4 | 4.0 | 4.7 | 5.4 | 6.1 | 6.7 |
| Maximum speed (mm/s) | Lead 12 | 600 | | | | 470 |
| | Lead 6 | 300 | | | | 230 |
| | Lead 3 | 150 | | | | 115 |

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 | ○ | X | 24VDC | →P151 |
| RCP2-CG | 1 axis | | X | ○ | X | | →P151 |



(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).
 (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.