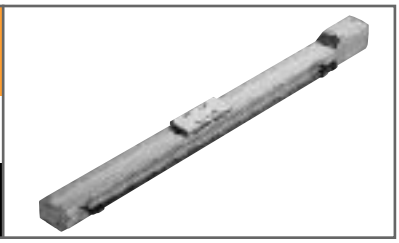
RCP2CR-SA6

Clean Room Type ROBO Cylinder, Slider Type, Slider 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 output — Lead — Stroke — Applicable controller — Cable length — Option

(Example) : RCP2CR — SA6B — □ I□ — □ PM□ — □6□ — 300□ — □ P1□ — □ S□ — □BE

Models/Specifications

* The maximum speed of the RCP2 series will vary according to the weight of the load installed on the slider (or rod). Refer to the diagram on the back cover for the relationship of speed and load capacity.

Model	Encoder type	Motor type	Lead (mm)	Stroke 50mm increments (mm)	Speed (Note 1) (mm/s)	Load capacity (Note 2) Horizontal (kg)	Load capacity (Note 2) Vertical (kg)	Suction rate (N ℓ / min)
RCP2CR-SA6-□-PM-12-□-P1-□-□	Absolute Incremental	Pulse motor	12	50 ~ 600	10 ~ 600	6	1.5 ~ 0.5	50
RCP2CR-SA6-□-PM-6-□-P1-□-□			6		5 ~ 300	12	3 ~ 1.5	30
RCP2CR-SA6-□-PM-3-□-P1-□-□			3		1 ~ 150	12	6 ~ 3	15

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

Options

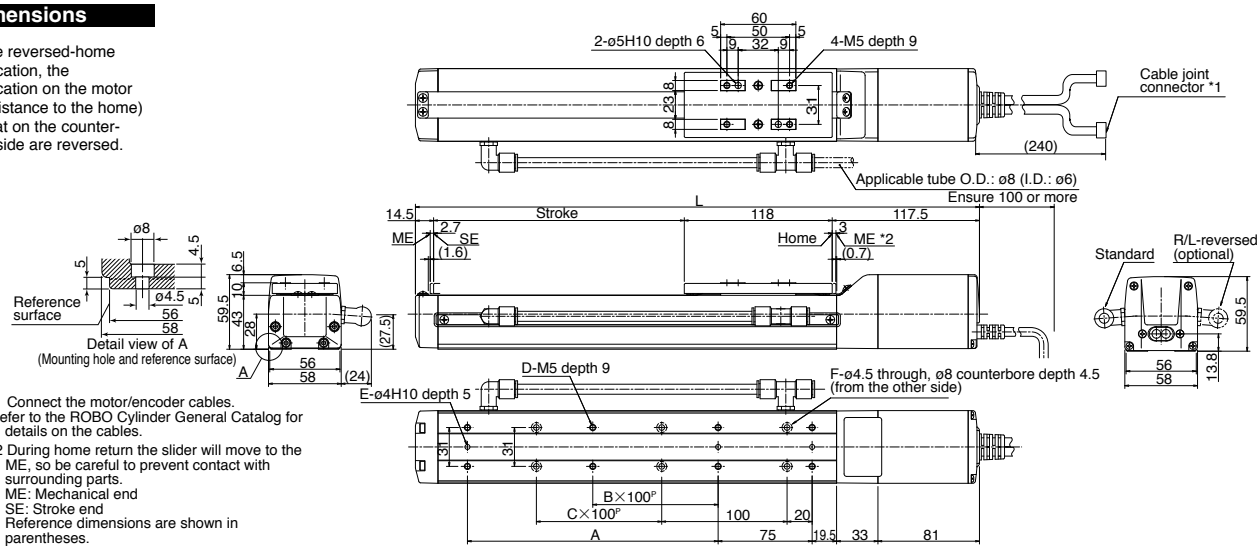
Name	Type	Reference Page
Brake (Cable outlet direction: End)	BE	—
Brake (Cable outlet direction: Left)	BL	—
Brake (Cable outlet direction: Right)	BR	—
Reversed-home specification	NM	—
Suction-pipe joint R/L-reversed	VR	—

Common Specifications

Drive system	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Guide	Integrated with base
Allowable load moment (Note 3)	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 4)	N: No cable, P: 1m, S: 3m, M: 5m, X□□: Length Specification, R□□: Robot cable

Dimensions

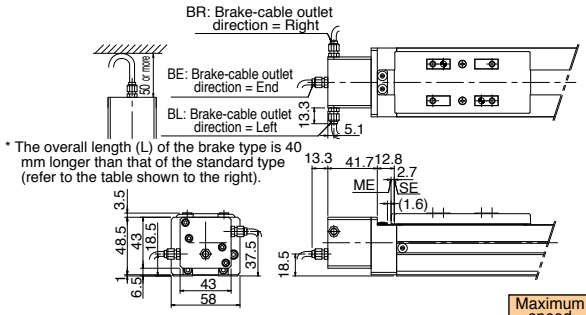
* With the reversed-home specification, the specification on the motor side (distance to the home) and that on the counter-motor side are reversed.



*1 Connect the motor/encoder cables. Refer to the ROBO Cylinder General Catalog for details on the cables.

*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 40 mm longer than that of the standard type (refer to the table shown to the right).

Dimensions, Weight and Maximum Speed by Stroke (Note 1)

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	300	350	400	450	500	550	600	650	700	750	800	850
A	0	100	100	200	200	300	300	400	400	500	500	600
B	0	0	0	1	1	2	2	3	3	4	4	5
C	0	0	1	1	2	2	3	3	4	4	5	5
D	4	6	6	8	8	10	10	12	12	14	14	16
E	2	3	3	3	3	3	3	3	3	3	3	3
F	4	4	6	6	8	8	10	10	12	12	14	14
Weight (kg)	2.0	2.2	2.3	2.4	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.6
Maximum speed (mm/s) * Varies depending on the stroke. Lead: 12	600											540
Lead: 6	300											270
Lead: 3	150											135

Applicable Controller Specifications

Applicable controller	Maximum number of controlled axes	Compatible encoder type	Program Operation	Power supply voltage
RCP2-C	1 axis	Absolute Incremental	Positioner	DC24V
RCP2-CG	1 axis			

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) Load capacity based on an acceleration of 0.3 G (or 0.2 G if the lead is 3 or in the case of a vertical application).
(Note 3) Based on a traveling life of 5,000 km.
(Note 4) The maximum cable length is 15 m for the absolute type and 20 m for the incremental type. Specify the desired length in meters (ex. X08 = 8 m).