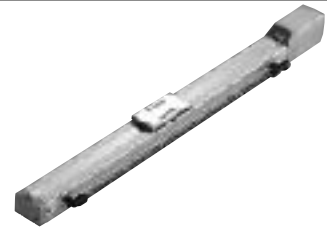


RCP2CR-SA5

Clean Room Type ROBO Cylinder, Slider Type,
Slider Width 52mm, Pulse Motor, Straight Shape



Type / Slider (52mm wide) Stroke / 50 ~ 500mm Load capacity / 8kg (horizontal)/4.5kg (vertical)

Model Specification Items Series Type Encoder type Motor output Lead Stroke Applicable controller Cable length Option
(Example) : RCP2CR - SA5E-□ IO -□ PM□ -□□-□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 (mm/s)	Load capacity (Note 1)		Suction rate (N ℓ / min)
						Horizontal (kg)	Vertical (kg)	
RCP2CR-SA5-□1-PM-12-□2-P1-□3-□4	Absolute Incremental	Pulse motor	12	50 ~ 500	10 ~ 600	4	1	50
RCP2CR-SA5-□1-PM-6-□2-P1-□3-□4			6		5 ~ 300	8	2.5	30
RCP2CR-SA5-□1-PM-3-□2-P1-□3-□4			3		1 ~ 150	8	4.5	15

* In the above model names, □1 indicates the encoder type, □2 the stroke, □3 the cable length, and □4 the applicable options.

Options

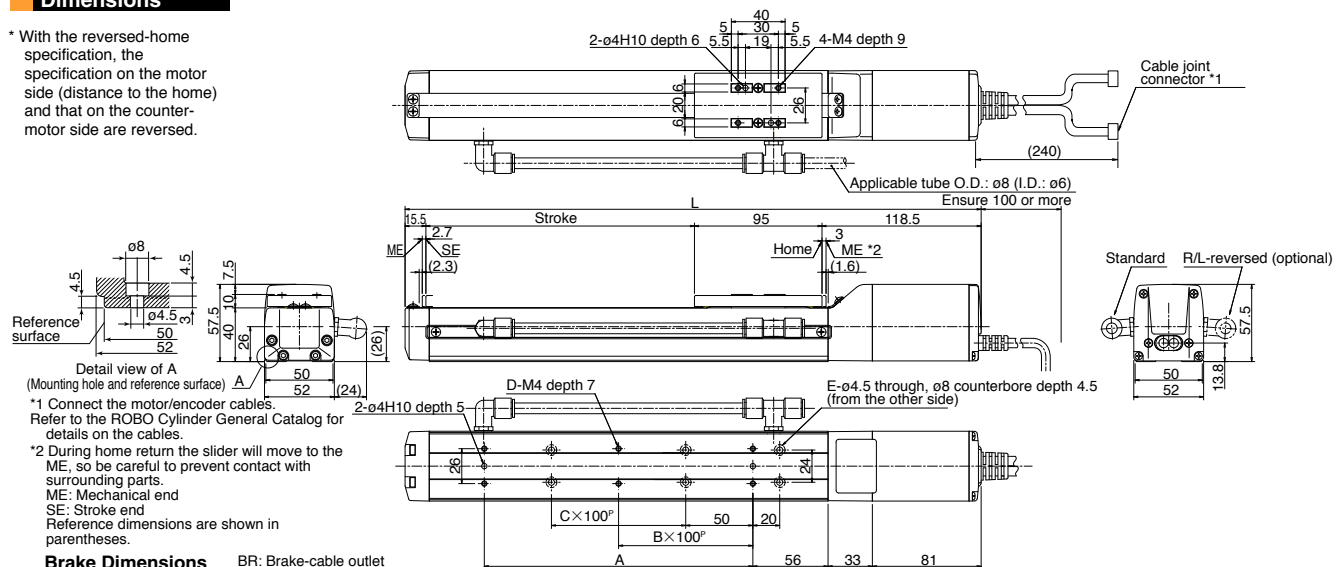
Name	Type	Reference Page
Brake (Cable outlet direction: End)	BE	—
Brake (Cable outlet direction: Left)	BL	—
Brake (Cable outlet direction: Right)	BR	—
Reversed-home specification	NM	—
Suction-pipe joint R/L-reversed	VR	—

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 2)	Ma: 4.9N · m Mb: 6.8N · m Mc: 11.7N · m
Overhung load length	Ma/Mb/Mc directions: 150mm 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

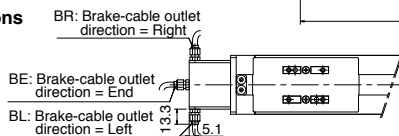
* With the reversed-home specification, the specification on the motor side (distance to the home) and that on the counter-motor side are reversed.



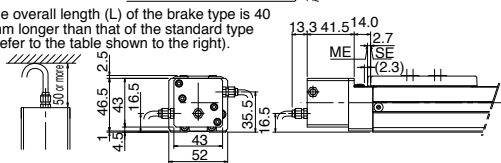
*1 Connect the motor/encoder cables. Refer to the ROBO Cylinder General Catalog for details on the cables.

*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

Stroke	50	100	150	200	250	300	350	400	450	500
L	279	329	379	429	479	529	579	629	679	729
A	73	100	100	200	200	300	300	400	400	500
B	0	0	0	1	1	2	2	3	3	4
C	0	0	1	1	2	2	3	3	4	4
D	4	4	4	6	6	8	8	10	10	12
E	4	4	6	6	8	8	10	10	12	12
Weight (kg)	1.7	1.8	1.9	2.0	2.1	2.3	2.4	2.5	2.6	2.7
Maximum speed (mm/s)	600									
	Lead: 12						300			
	Lead: 6						150			
	Lead: 3									

Applicable Controller Specifications

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



(Note 1) 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 2) Mc moment will become 7.8 N · m with a stroke of 350 mm or longer. Based on a traveling life of 5,000 km.

(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 (ex. X08 = 8 m).