

RCP2-SA5

ROBO Cylinder Slider Type: Unit 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 Lead Stroke Applicable controller Cable length Options
 (Example) RCP2 - SA5 - I - PM - 6 - 500 - P1 - S - BE

* Refer to page 37 for the details of 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 pages 27.

Model/Specifications

Model	Encoder type	Motor	Lead (mm)	Stroke 50mm increments (mm)	Speed (mm/s)	Load capacity (Note 1)	
						Horizontal (kg)	Vertical (kg)
RCP2-SA5-○-PM-12-***-P1-△-□	Absolute Incremental	Pulse motor	12	50~500	10~600	4	1
RCP2-SA5-○-PM-6-***-P1-△-□			6		5~300	8	2.5
RCP2-SA5-○-PM-3-***-P1-△-□			3		1~150	8	4.5

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

Options

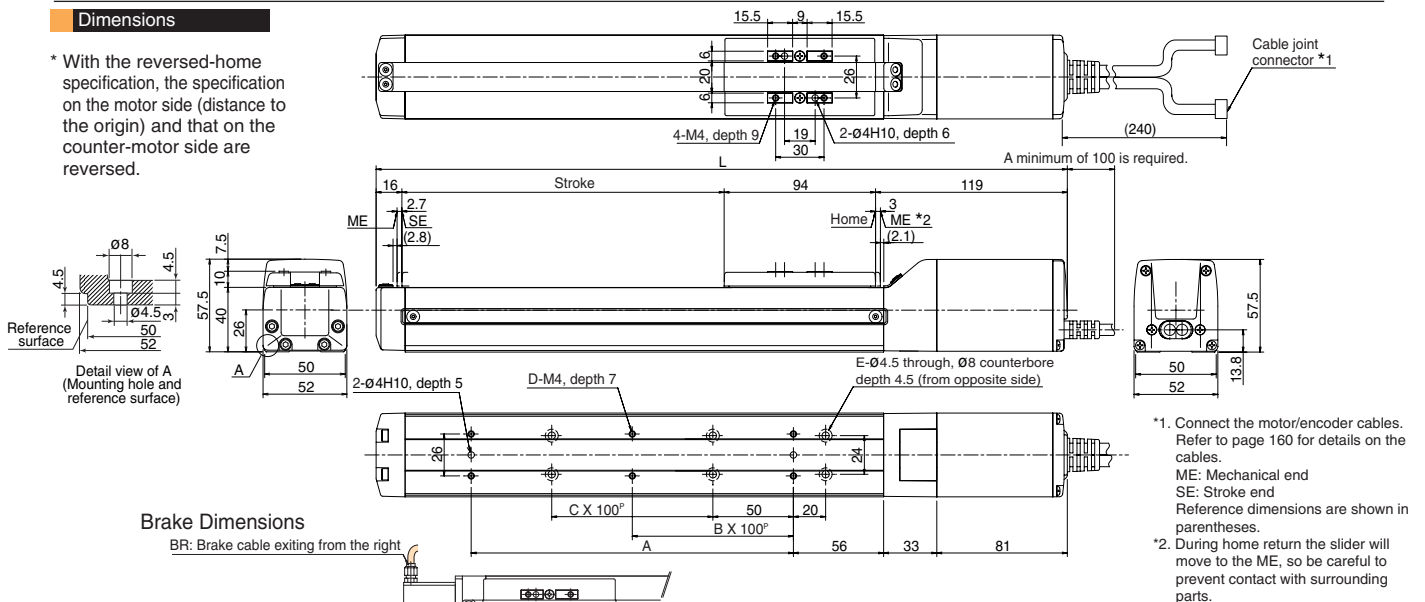
Name	Model	Page
Brake (Cable exiting the end)	BE	→P137
Brake (Cable exiting from the left)	BL	→P137
Brake (Cable exiting from the right)	BR	→P137
Reversed-origin specification	NM	→P137

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 (Note 2)	Ma: 4.9N·m Mb: 6.8N·m Mc: 11.7N·m
Overhung load length	Ma direction: 150mm or less, 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 origin) and that on the counter-motor side are reversed.



1. Connect the motor/encoder cables. Refer to page 160 for details on the cables.
ME: Mechanical end
SE: Stroke end
Reference dimensions are shown in parentheses.
2. During home return the slider will move to the ME, so be careful to prevent contact with surrounding parts.

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)	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.4	2.5
Maximum speed (mm/s)	Lead 12									
	Lead 6									
	Lead 3									

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



(Note 1) 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 2) Mc moment will become 7.8N·m with a stroke of 350mm or longer.
 (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.