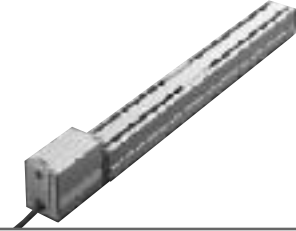


ERC-SA7

ROBO Cylinder Slider Type: Actuator Width 68mm, Pulse Motor, Straight Shape



Type Slider (68mm wide) Stroke 50 ~ 600mm Load capacity 20kg (horizontal)/10kg (vertical)

Model Specification Items Series | Type | Encoder type | Motor | Lead | Stroke | Cable length | Options
 (Example) ERC - SA7 - I - PM - 16 - 600 - S - NM

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

Model/Specifications

*With the ERC series, the maximum speed will vary depending on the weight of the load placed on the slider (or rod). Refer to the diagrams on page 25 for the relationship of speed and load capacity.

Model	Encoder type	Motor	Lead (mm)	Stroke 50mm increments (mm)	Speed (Note 1) (mm/s)	Load capacity (Note 2)		Maximum push force (N)
						Horizontal (kg)	Vertical (kg)	
ERC-SA7-I-PM-16-***-△-□	Incremental	Pulse motor	16	50 ~ 600	10 ~ 450 <400>	10~2	2.5~0.5	-
ERC-SA7-I-PM-8-***-△-□			8		5~250	20~3.5	5~0.5	-
ERC-SA7-I-PM-4-***-△-□			4		1~125	20	10~2	-

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

Options

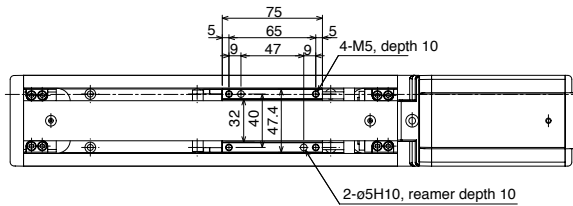
Name	Code	Page
Brake	B	→P137
Reversed-home specification	NM	→P137

Common Specifications

Drive system□	Ball screw ø12mm, rolled C10
Positioning repeatability□	±0.05mm
Backlash□	0.1mm or less
Guide□	Integrated with base
Allowable load moment	Ma : 13.8N · m Mb : 19.7N · m Mc : 29.0N · 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, W□□: Connectors on both ends

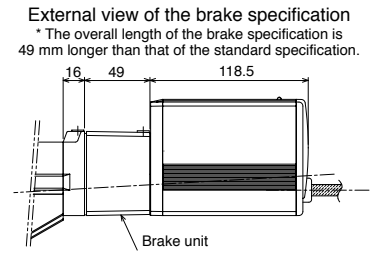
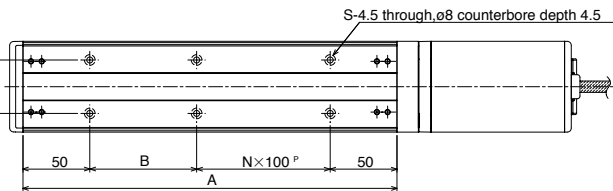
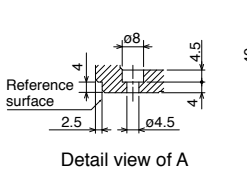
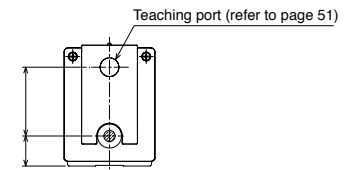
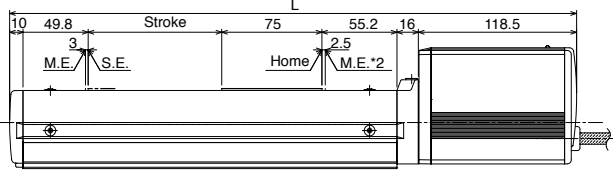
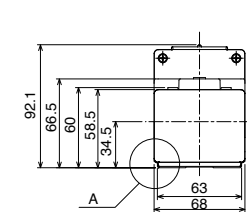
Dimensions

* With the reversed-home specification, the dimension on the motor side (distance from the mechanical end to the origin) and that on the non-motor side are reversed.



Cable joint connector *1
 *1 Connect the power & I/O cable. Refer to page 26 for details on the cable.
 SE: Stroke end
 ME: Mechanical end

*2 During origin 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	550	600
L	374.5	424.5	474.5	524.5	574.5	624.5	674.5	724.5	774.5	824.5	874.5	924.5
A	230	280	330	380	430	480	530	580	630	680	730	780
B	30	80	30	80	30	80	30	80	30	80	30	80
N	1	1	2	2	3	3	4	4	5	5	6	6
S	6	6	8	8	10	10	12	12	14	14	16	16
Weight (kg)	3.1	3.2	3.4	3.6	3.7	3.9	4.0	4.2	4.3	4.5	4.6	4.8
Maximum Speed (mm/s)	Lead 16	450(400)										
	Lead 8	250										
	Lead 4	125										

Applicable Controller Specifications

Applicable Controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Power supply voltage	Page
Built-in	1 axis	Incremental	×	○	×	DC24V	→P144



(Note 1) 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 10 m. Specify the desired length in meters (e.g., X08 = 8 m).

* Refer to page 23 for other points to note.

ERC Actuators
 RCP2 Actuators
 RCS Actuators
 Information on Guide Types
 Actuator Options
 How to Install Actuator
 ERC Controllers
 RCP2 Controllers
 RCS Controllers