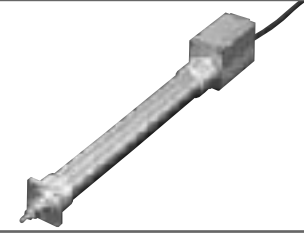


ERC-RA54

ROBO Cylinder, Rod Type, Flange Width 54mm, Pulse Motor, Straight Shape



Type Rod (58mm wide), no guide Stroke 50 ~ 300mm Load capacity 40kg (horizontal)/18kg (vertical)

Model Specification Items Series - Type - Encoder type - Motor - Lead - Stroke - Cable length - Options
 (Example) ERC - RA54 - I - PM - 12 - 300 - 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-RA54-I-PM-12-***-△-□	Incremental	Pulse motor	12	50 ~ 300	10 ~ 600	25~2.5	4.5~0.5	78
ERC-RA54-I-PM-6-***-△-□			6		5 ~ 300	40~12	12~2.5	157
ERC-RA54-I-PM-3-***-△-□			3		1 ~ 150	40	18~4	304

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

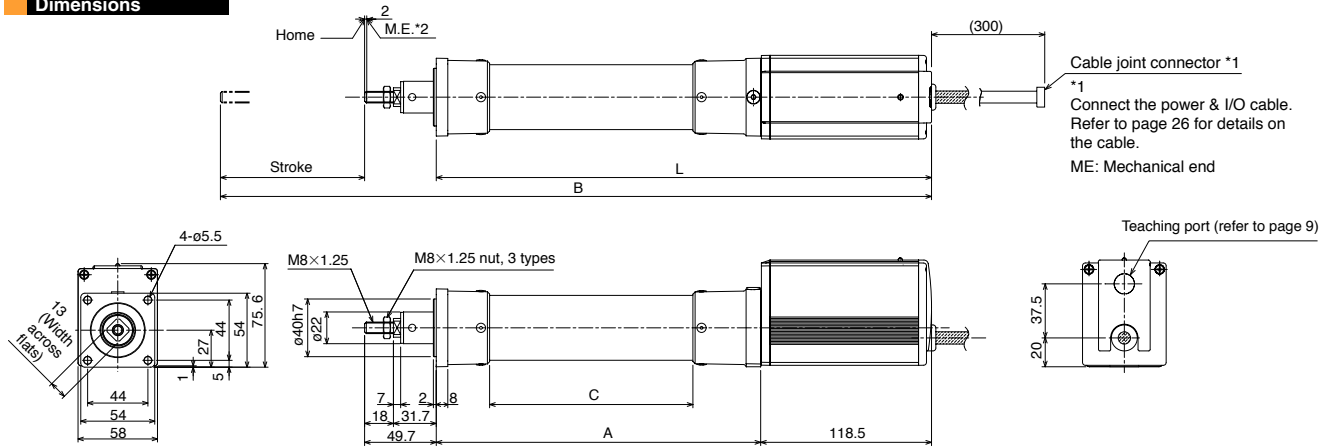
Options

Name	Code	Page
Brake	B	→P137
Foot bracket	FT	→P139
Reversed-home specification	NM	→P137

Common Specifications

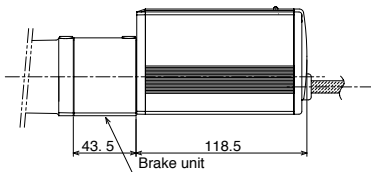
Drive system□	Ball screw ø10mm, rolled C10
Positioning repeatability□	±0.0.5mm
Backlash□	0.1mm or less
Guide□	No guide
Rod diameter □	ø22-mm dedicated SUS pipe
Rod non-rotation accuracy□	±1.5°
Actuator□ □	Pipe (ø45 SUS), flange (aluminum die-cast), motor cover (extruded aluminum)
Cable length (Note 3)□	N: No cable, P: 1m, S: 3m, M: 5m, X□□: Length specification, W□□: Connectors on both ends

Dimensions



External view of the brake specification

* The overall length of the brake specification is 43.5 mm longer than that of the standard specification.



Dimensions, Weight and Maximum Speed by Stroke

Stroke	50	100	150	200	250	300
L	293.5	343.5	393.5	443.5	493.5	543.5
A	175	225	275	325	375	425
B	393.2	493.2	593.2	693.2	793.2	893.2
C	91	141	191	24.1	291	341
Weight (kg)	1.6	1.7	1.8	2.0	2.1	2.2
Maximum Speed (mm/s)	Lead 12	600				500
	Lead 6	300				250
	Lead 3	150				125



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) 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). The horizontal load capacity assumes that the actuator is used with a guide or guides.
 (Note 3) The maximum cable length is 10 m. Specify the desired length in meters (e.g., X08 = 8 m).

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

* Refer to page 23 for other points to note.