

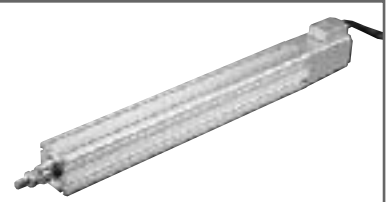
RCS-RA55-100-GN

ROBO Cylinder Rod Type: Unit Width 55mm, 100W, Slim Shape w/o Guide

Type Rod (55mm wide) w/o guide Stroke 50~300mm Load capacity 60kg (horizontal)/18kg (vertical)

Model specification items Series Type Encoder type Motor Guide type Speed type Stroke Cable length Options

(Example) RCS -RA55- A - 100 - GN - H - 300 - S - B



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

Model/Specifications

Model	Encoder type	Motor (W)	Lead (mm)	Stroke 50mm increments (mm)	Speed (mm/s) (Note 1)	Load capacity (Note 2)		Rated thrust (N)
RCS-RA55-○-100-GN-H-***-△-□	Absolute Incremental	100	16	50~300	1~800	15	3.5	105.8
RCS-RA55-○-100-GN-M-***-△-□			8		1~400	30	9	212.7
RCS-RA55-○-100-GN-L-***-△-□			4		1~200	60	18	424.3

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

Options

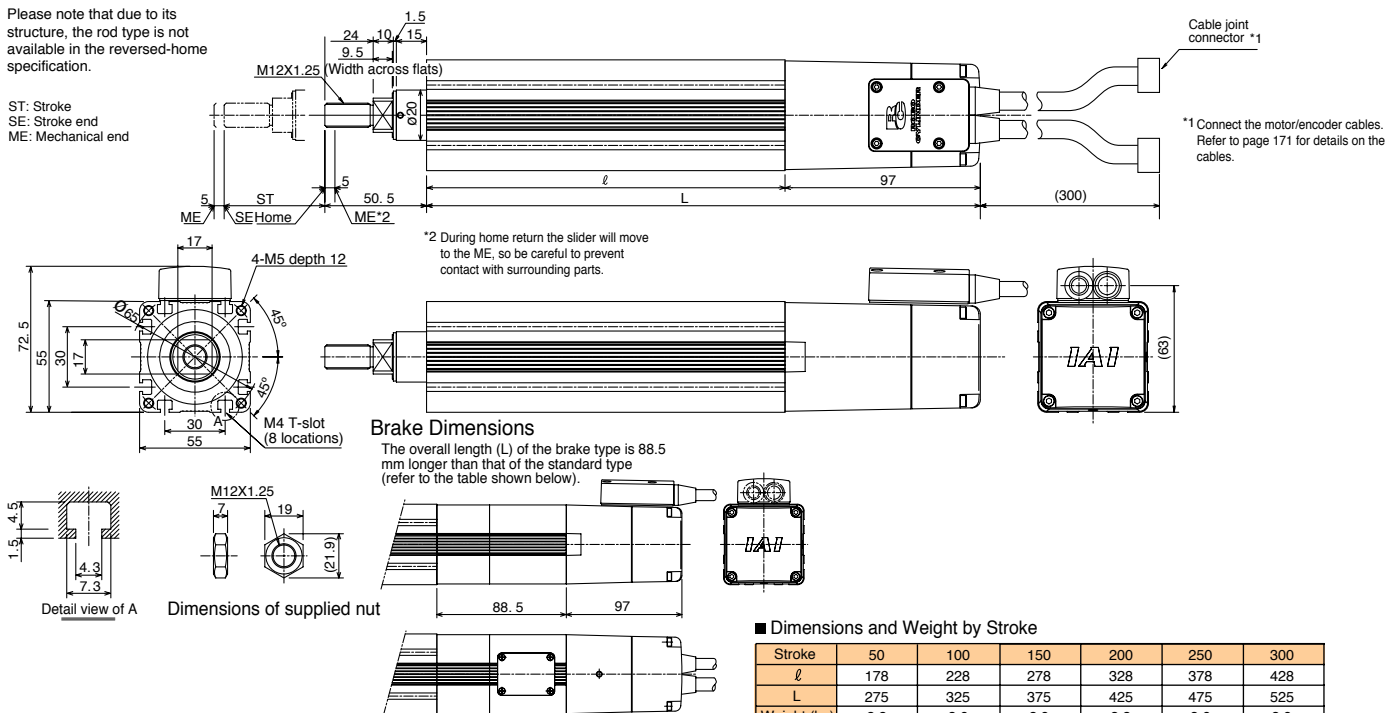
Name	Model	Page
Different connector-cable outlet direction	A2	→P137
Brake	B	→P137
With flange	FL	→P138
With foot bracket	FT	→P139

Common Specifications

Drive system	Ball screw Ø12mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.05mm or less
Guide	w/o guide
Rod diameter	Ø25mm
Rod non-rotational accuracy	±0.07°
Base	Material: Aluminum with white alumite treatment
Cable length (Note 3)	P: 1m, S: 3m, M: 5m, X□□: Length specification, R□□: Robot cable

Dimensions

* Please note that due to its structure, the rod type is not available in the reversed-home specification.



Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
ℓ	178	228	278	328	378	428
L	275	325	375	425	475	525
Weight (kg)	2.2	2.6	2.9	3.2	3.6	3.9
Maximum speed (mm/s)	800					755
H type						377
M type						188
L type						

Applicable Controller Specifications

Applicable Controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Power supply voltage	Page
RCS-C	1 axis	Absolute/Incremental	X	○	X	AC100/200V	→P163
E-Con	1 axis		X	○	X	AC100/200V	Refer to the separate catalog.
P-Driver	1 axis	Incremental	X	X	○	AC100/200V	
X-SEL	4 axes	Absolute/Incremental	○	△	X	AC100/200V	



(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 for the L type). The horizontal load capacity assumes a condition where a guide or guides are used to prevent the rod from receiving radial loads.
(Note 2) The maximum cable length is 15 m. Specify the desired length in meters (e.g., X08 = 8 m).

* Refer to page 23 for other points to note.