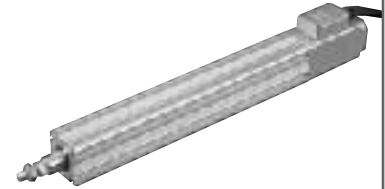


# RCS-RA45-GN

ROBO Cylinder Rod Type: Unit Width 45mm, 30W, Slim Shape w/o Guide



Type	Rod (45mm wide) w/o guide	Stroke	50~200mm	Load capacity	30kg (horizontal)/8.5kg (vertical)
------	---------------------------	--------	----------	---------------	------------------------------------

Model specification items: Series Type Encoder type Motor Guide type Speed type Stroke Cable length Options  
 (Example) RCS -RA45- A - 30 - GN - H - 200 - 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)	Load capacity (Note 1)		Rated thrust (N)
						Horizontal (kg)	Vertical (kg)	
RCS-RA45-○-30-GN-H-***-△-□	Absolute Incremental	30	10	50~200	1~500	7	1.5	51
RCS-RA45-○-30-GN-M-***-△-□			5		1~250	15	4	101.9
RCS-RA45-○-30-GN-L-***-△-□			2.5		1~125	30	8.5	202.9

\* 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

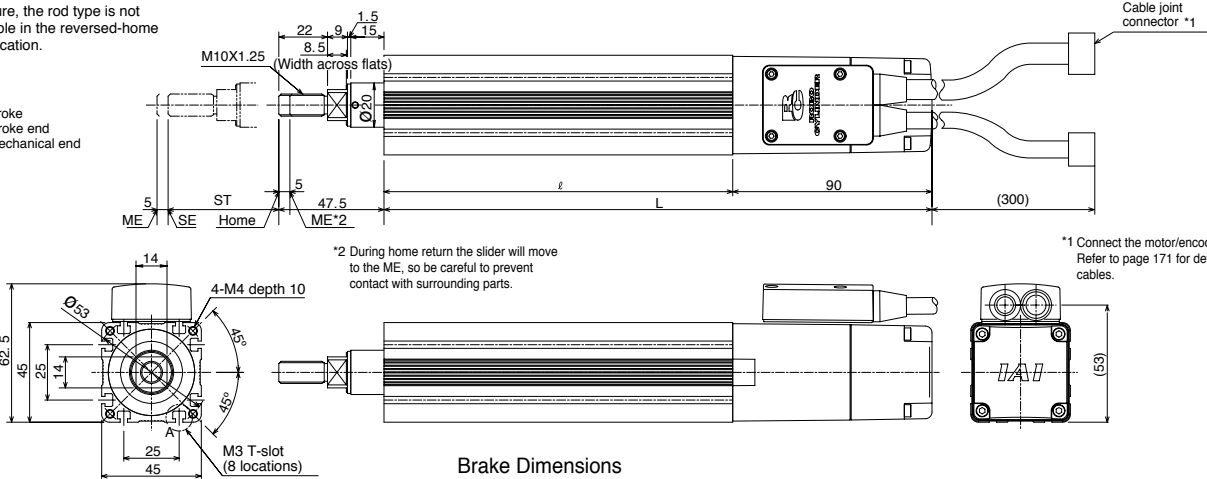
## Common Specifications

Drive system	Ball screw Ø8mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.05mm or less
Guide	w/o guide
Rod diameter	Ø20mm
Rod non-rotational accuracy	±0.07°
Base	Material: Aluminum with white alumite treatment
Cable length (Note 2)	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.

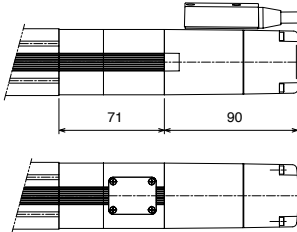
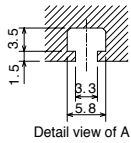
ST: Stroke  
SE: Stroke end  
ME: Mechanical end



### Brake Dimensions

The overall length (L) of the brake type is 71 mm longer than that of the standard type (refer to the table shown below).

Dimensions of supplied nut



### Dimensions and Weight by Stroke

Stroke	50	100	150	200
ℓ	157.5	207.5	257.5	307.5
L	247.5	297.5	347.5	397.5
Weight (kg)	1.3	1.5	1.7	2.0

## 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	O	X	24VDC	→P163
RCS-E	1 axis		X	O	X	24VDC	→P163



(Note 1) 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.