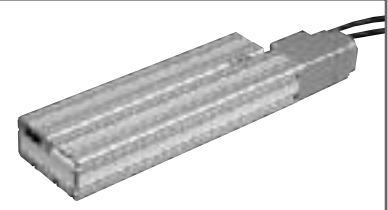


# RCS-F45

ROBO Cylinder Rod Width 45mm, 30W, Flat Type



Type Flat (45 mm wide) Stroke 50~200mm Load capacity 9kg (vertical)

Model specification items Series Type Encoder type Motor Speed type Stroke Cable length Options  
 (Example) RCS - F45 - A - 30 - 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-F45-O-30-H-***-△-□	Absolute Incremental	30	10	50~200	1~500	Refer to page 125	1.5	51
RCS-F45-O-30-M-***-△-□			5		1~250		4	101.9
RCS-F45-O-30-L-***-△-□			2.5		1~125		9	202.9

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

## Options

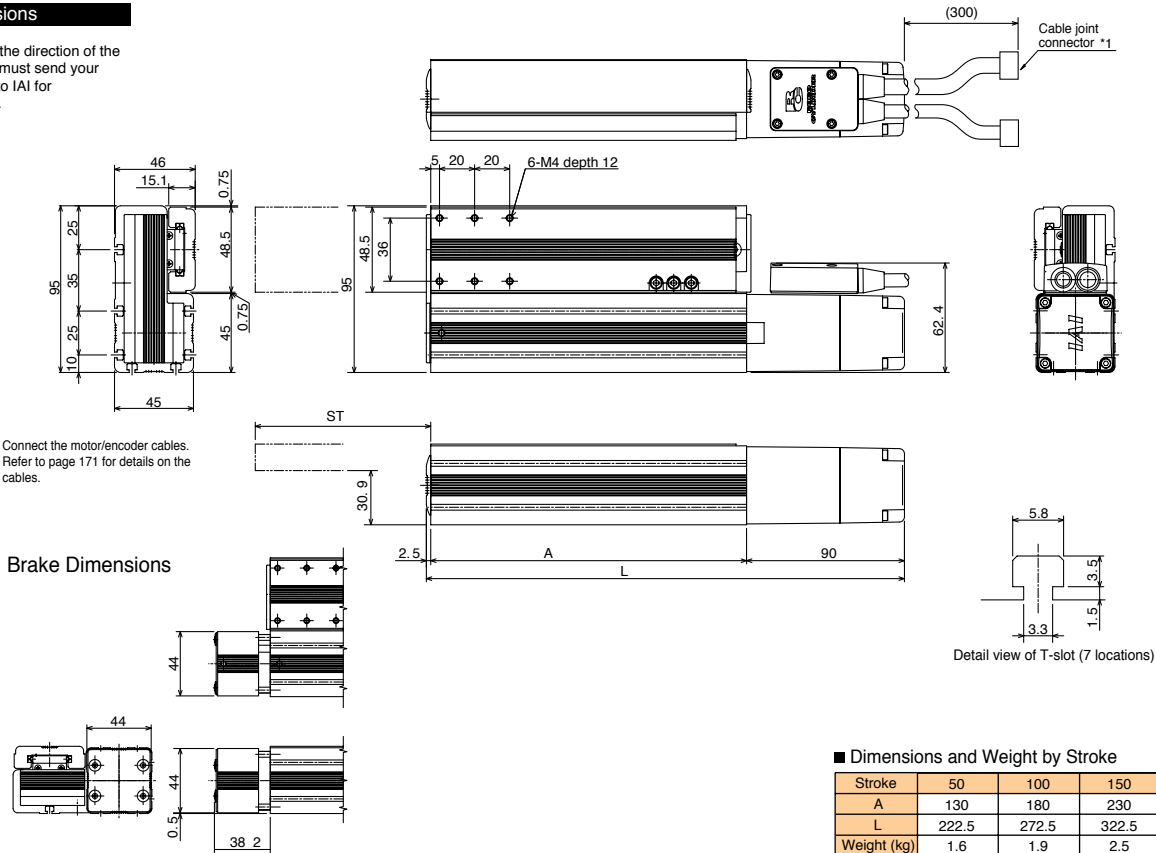
Name	Model	Page
Brake	B	→P137
Reversed-home specification	NM	→P137

## Common Specifications

Drive system	Ball screw ø8mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.05mm or less
Guide	Built-in linear guide
Allowable load moment	Ma: 2.7N · m Mb: 3.1N · m Mc: 2.9N · m
Base	Material: Aluminum with white alumite treatment
Cable length (Note 2)	P: 1m, S: 3m, M: 5m, X□□: Length specification, R□□: Robot cable

## Dimensions

\* To change the direction of the home, you must send your RCS back to IAI for adjustment.



### Dimensions and Weight by Stroke

Stroke	50	100	150	200
A	130	180	230	280
L	222.5	272.5	322.5	372.5
Weight (kg)	1.6	1.9	2.5	2.5

## 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

**Caution**

(Note 1) The load capacity is based on operation at the maximum speed and an acceleration of 0.3 G (or 0.2 G for the L type). The horizontal load capacity must not exceed the allowable moment, so refer to page 125.

(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.

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