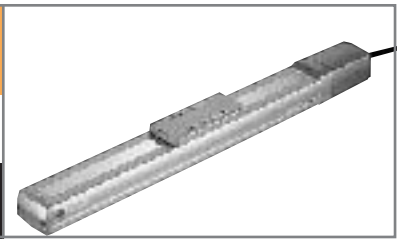
RCS-SM-150

ROBO Cylinder Slider Type: Unit Width 80mm, 150W, Straight Shape

Type: Slider (80mm wide) | Stroke: 100~1000mm | Load capacity: 60kg (horizontal)/12kg (vertical)



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

(Example) RCS - SM - A - 150 - H - 1000 - S - B

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

Model/Specifications

Model	Encoder type	Motor (W)	Lead (mm)	Stroke 100mm increments(mm)	Speed (mm/s) (Note 1)	Load capacity (Note 2) Horizontal (kg)	Load capacity (Note 2) Vertical (kg)	Rated thrust (N)
RCS-SM-○-150-H-★★★-△-□	Absolute Incremental	150	20	100~1000	1~1000	30	6	128
RCS-SM-○-150-M-★★★-△-□			10		1~500	60	12	256

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

Options

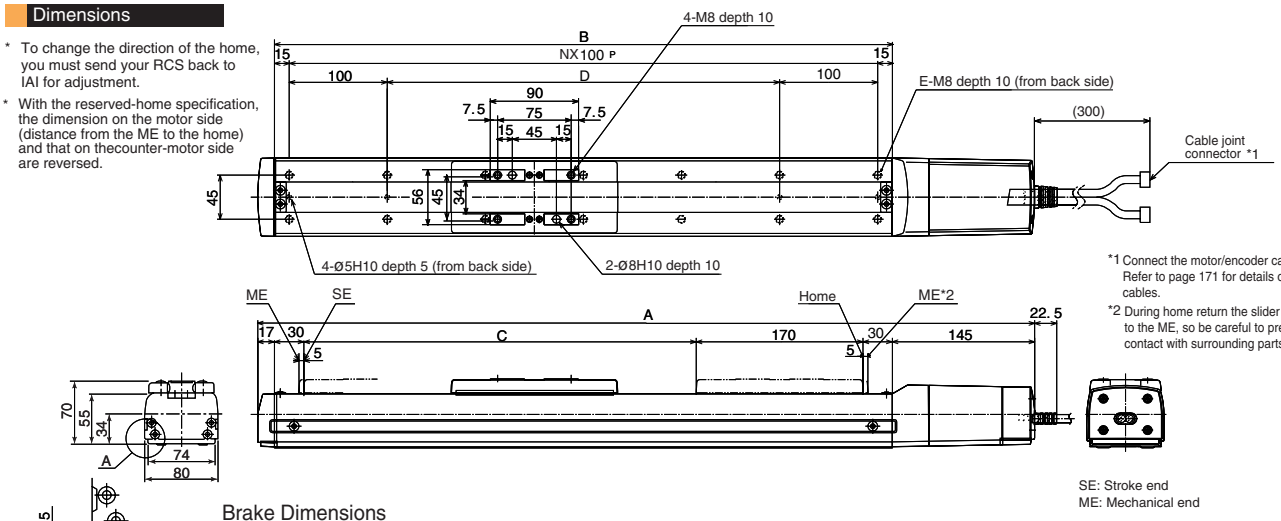
Name	Model	Page
Brake	B	→P137
Reversed-home specification	NM	→P137

Common Specifications

Drive system	Ball screw ø16mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.05mm or less
Guide	Integrated with base
Allowable load moment	Ma: 36.3N • m Mb: 36.3N • m Mc: 77.4N • m
Overhung load length	Ma direction: 450mm or less, Mb/Mc directions: 450mm or less
Base	Material: Special alloy steel
Cable length (Note 3)	P: 1m, S: 3m, M: 5m, X□□: Length specification, R□□: Robot cable

Dimensions

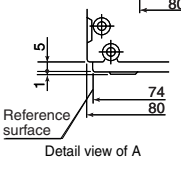
* To change the direction of the home, you must send your RCS back to IAI for adjustment.
* With the reserved-home specification, the dimension on the motor side (distance from the ME to the home) and that on thecounter-motor side are reversed.



*1 Connect the motor/encoder cables. Refer to page 171 for details on the cables.

*2 During home return the slider will move to the ME, so be careful to prevent contact with surrounding parts.

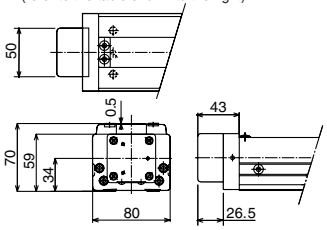
SE: Stroke end
ME: Mechanical end



Detail view of A

Brake Dimensions

The overall length (L) of the brake type is 26 mm longer than that of the standard type (refer to the table shown to the right).



■ Dimensions, Weight and Maximum Speed by Stroke

Stroke	100	200	300	400	500	600	700	800	900	1000
A	492	592	692	792	892	992	1092	1192	1292	1392
B	330	430	530	630	730	830	930	1030	1130	1230
C	100	200	300	400	500	600	700	800	900	1000
D	100	200	300	400	500	600	700	800	900	1000
E	8	10	12	14	16	18	20	22	24	26
N	3	4	5	6	7	8	9	10	11	12
Weight (kg)	6.1	7.2	8.3	9.4	10.5	11.6	12.7	13.8	14.9	16.0
Maximum speed (mm/s) H type	1000						960	765	625	515
Maximum speed (mm/s) M type	500						480	380	310	255

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	AC100/200V	→P163
E-Con	1 axis		X	O	X	AC100/200V	Refer to the separate catalog.
P-Driver	1 axis	Incremental	X	X	O	AC100/200V	
X-SEL	4 axes	Absolute/Incremental	O	△	X	AC100/200V	

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 .
(Note 3) 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.