

RCS2-SD5N

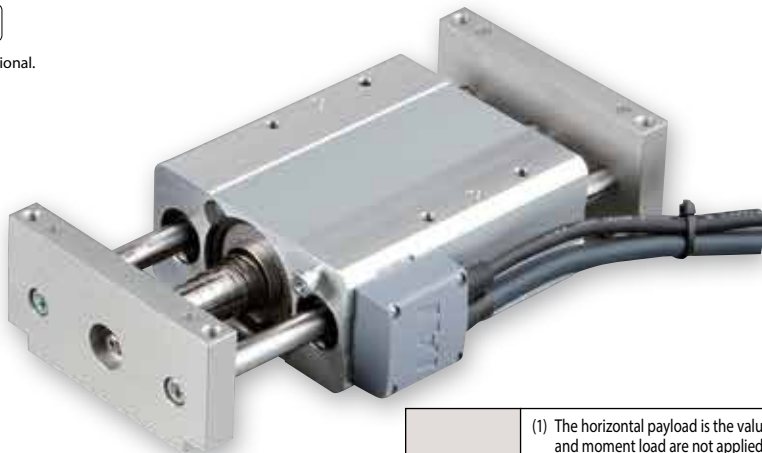
Robo Cylinder, Mini Rod Type, Short-Length Double-Guide Slide Unit Type, Actuator Width 94mm, 200V Servo Motor, Ball Screw Specification

Model Specification Items	RCS2	SD5N	I	60	<input type="checkbox"/>	<input type="checkbox"/>	T2	<input type="checkbox"/>	<input type="checkbox"/>
	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controller	Cable length	Options
			I: Incremental specification	60: 60W Servo motor	10: 10mm 5: 5mm 2.5: 2.5mm	50: 50mm 75: 75mm	T2: SCON-CA SSEL XSEL-P/Q	N: None P: 1m S: 3m M: 5m X <input type="checkbox"/> : Custom Length R <input type="checkbox"/> : Robot Cable	See options below.

* See page Pre-47 for details on the model descriptions.



*CE compliance is optional.



Technical References Appendix P.5



- (1) The horizontal payload is the value when used in combination with a guide so that a radial load and moment load are not applied to the rod. See page A-111 for correlation diagrams of the end load and service life when a guide is not installed.
- (2) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for 2.5mm-lead) horizontally and 0.2G vertically. The acceleration limit is the value indicated above.
- (3) The vertical payload is the value when the actuator is mounted and side bracket is operated. Take note that in vertical operation, the side bracket cannot be mounted to operate the actuator.
- (4) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
- (5) See page A-71 for details on push motion.

Actuator Specifications

Leads and Payloads

Model number	Motor output (W)	Feed screw	Lead (mm)	Max. Load Capacity		Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
				Horizontal (kg)	Vertical (kg)			
RCS2-SD5N-I-60-10-①-T2-②-③	60	Ball screw	10	5	1.5	89	±0.02	50 75
RCS2-SD5N-I-60-5-①-T2-②-③			5	10	3	178		
RCS2-SD5N-I-60-2.5-①-T2-②-③			2.5	20	6	356		

Stroke and Maximum Speed

Lead	Stroke	50 (mm)	75 (mm)
		10	280 <230>
5		250 <230>	250
2.5		125	

Code explanation ① Stroke ② Cable length ③ Options *See page A-71 for details on push motion.

* The values enclosed in < > apply to vertical settings. (Unit: mm/s)

① Stroke

Stroke (mm)	Standard price
50	—
75	—

② Cable Length

Type	Cable symbol	Standard Price
Standard	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
Robot Cable	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	—

* See page A-59 for cables for maintenance.

③ Options

Name	Option code	See page	Standard price
CE compliance	CE	→ A-42	—
Connector cable exits (left)	K1	→ A-51	—
Connector cable exits (right)	K3	→ A-51	—

Actuator Specifications

Item	Description
Drive System	Ball screw, ø8mm, rolled C10
Lost Motion	0.1mm or less
Frame	Material: Aluminum, white alumite treated
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	5,000km or 50 million cycles

Dimensional Drawings

CAD drawings can be downloaded from the website.

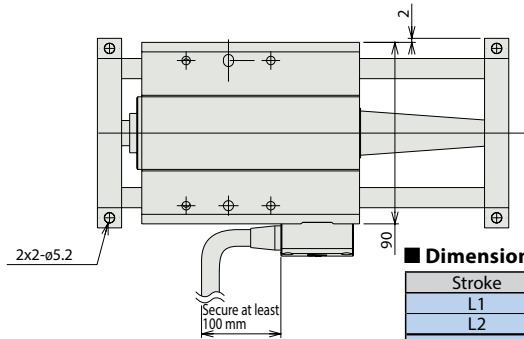
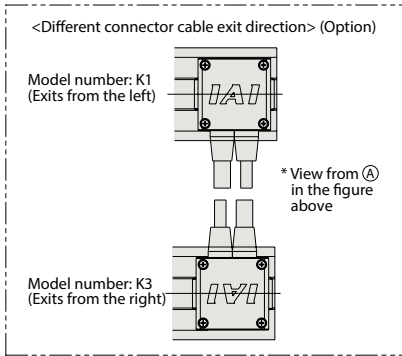
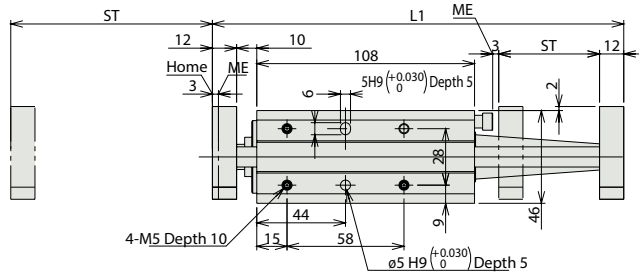
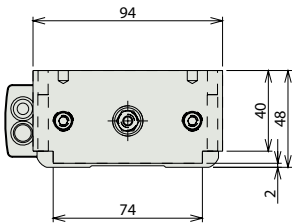
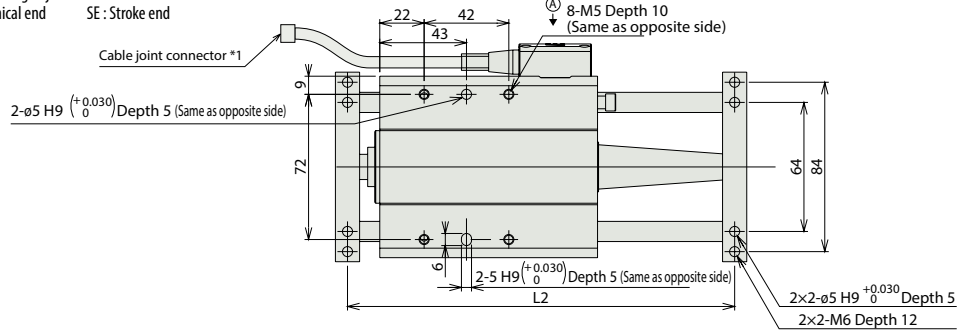
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For Special Orders

Appendix P.15



(*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.
 ME: Mechanical end SE: Stroke end



Dimensions and Weight by Stroke

Stroke	50	75
L1	204	229
L2	192	217
Weight (kg)	1.9	1.94

Applicable Controllers

RCS2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Positioner Type		SCON-CA-60I-NP-2-①	Up to 512 positioning points are supported	512 points	Single-phase 100 VAC	218 VA max. * Varies depending on the controller. Refer to the operation manual for details.	—	→ P643
Solenoid mode			Can be operated with the same controls used for solenoid valves	7 points				
Network mode			Can be moved by direct numerical specification	768 points				
Pulse-train input control mode			Can be controlled using pulse trains	(—)				
Program control type 1 or 2 axes		SSEL-CS-1-60I-NP-2-①	Program operation is supported Up to two axes can be operated	20,000 points	3-phase 200 VAC (XSEL-P/Q only)	—	→ P685	
Program control type 1 or 6 axes		XSEL-①-1-60I-N1-EEE-2-3	Program operation is supported Up to six axes can be operated	20,000 points				—

* The values of SSEL and XSEL assume a 1-axis specification. * ① indicates the type of power-supply voltage (1: 100 V/2: Single-phase 200 V). * ①① indicates the XSEL type (P/Q).

Please note that this model cannot be connected to the XSEL-P/Q type (5-axis/6-axis), XSEL-R/S type, or MSCON.