

RCS2-TWA5N

Robo Cylinder, Mini Table Type, Short-Length Wide type, Actuator Width 80mm, 200V Servo Motor, Ball Screw Specification

Model Specification Items	RCS2	TWA5N	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

- POINT** Notes on selection
- (1) 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.
 - (2) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
 - (3) 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-TWA5N-I-60-10- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>	60	Ball screw	10	5	1.5	89	±0.02	50 75
RCS2-TWA5N-I-60-5- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>			5	10	3	178		
RCS2-TWA5N-I-60-2.5- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>			2.5	20	6	356		

Stroke and Maximum Speed

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

Code explanation Stroke Cable length 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
Brake	B	→ A-42	—
CE compliance	CE	→ A-42	—
Connector cable exits from the left	K1	→ A-51	—
Connector cable exits from the front	K2	→ A-51	—
Connector cable exits from the right	K3	→ A-51	—

Actuator Specifications

Item	Description
Drive System	Ball screw, ø8mm, rolled C10
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable dynamic moment (*)	Ma: 15 N·m, Mb: 15 N·m, Mc: 25.5 N·m
Allowable static moment	Ma: 38.6 N·m, Mb: 38.6 N·m, Mc: 64.8 N·m
Overhang load length	Ma direction: 100mm or less, Mb, Mc direction: 100mm or less
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	5,000km or 50 million cycles

(*) Based on 5,000km of traveling life

Dimensional Drawings

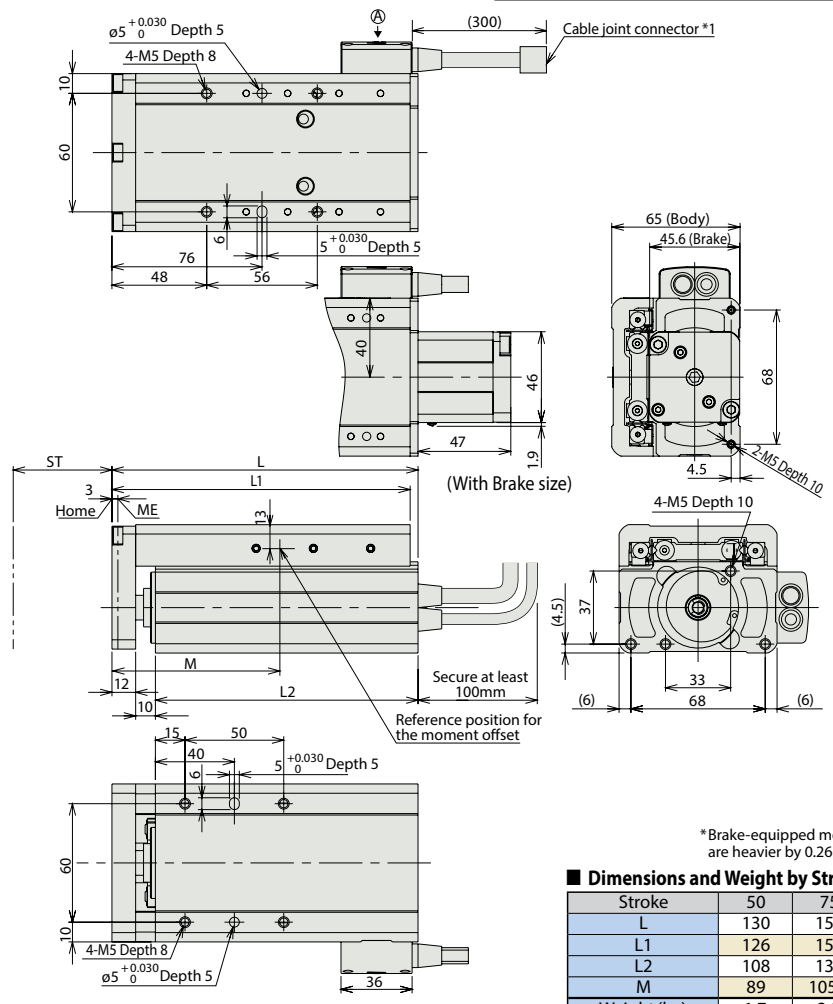
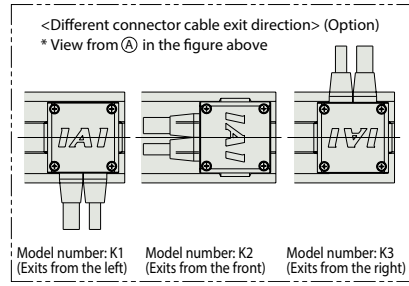
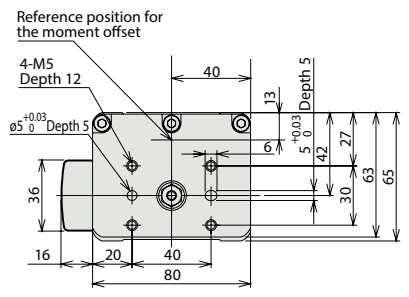
CAD drawings can be downloaded from the website. www.intelligentactuator.com

For Special Orders Appendix P.15



- (*1) Connect the motor-encoder integrated cable here.
- (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

ST : Stroke
ME : Mechanical End



*Brake-equipped models are heavier by 0.26kg.

■ Dimensions and Weight by Stroke

Stroke	50	75
L	130	155
L1	126	151
L2	108	133
M	89	105.5
Weight (kg)	1.7	2.0

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	—		→ P695	

* 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). * ② 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.

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/ Arm/ Flat Type
- Mini
- Standard
- Gripper/ Rotary Type
- Linear Servo Type
- Clean-room Type
- Splash-Proof Type
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor