

RCS2-SS8C

ROBO Cylinder, Slider Type, Actuator Dimensions 80mm, 200V Servo Motor, Coupling Specification, Steel Base Type

Model Description **RCS2 - SS8C** - [] - [] - [] - [] - [] - [] - [] - []

Series — Type — Encoder category — Motor category — Lead — Stroke — Applicable controller — Cable length — Option

I: Incremental specifications
A: Absolute Specifications

100: Servo Motor 100W
150: Servo Motor 150W

20: 20mm
10: 10mm

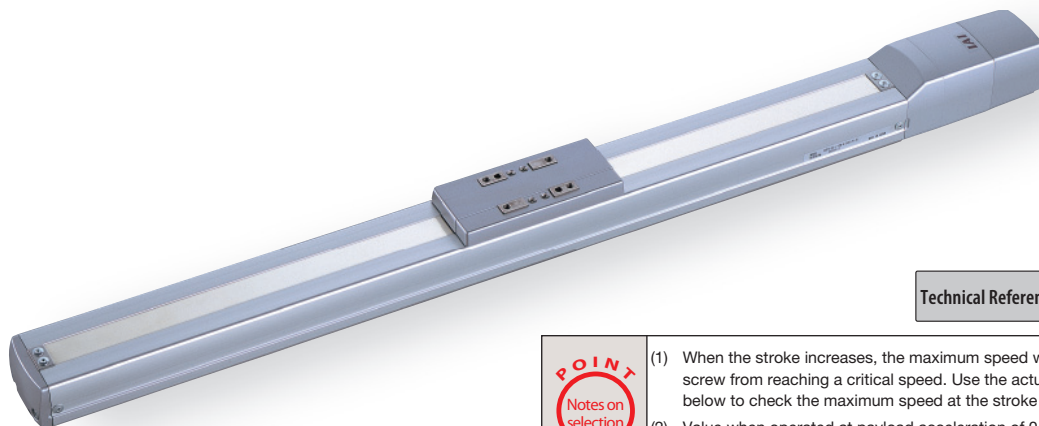
50: 50mm to 1000: 1000mm (Every 50mm pitch setting)

T1: XSEL-J/K
T2: SCON
SSEL
XSEL-P/Q

N: None
P: 1m
S: 3m
M: 5m
X□□ : Specified length
R□□ : Robot cable

B: Brake
NM: Reversed-home specification
SR: Slider part Roller specification

See preceding section for model descriptions.



Technical Reference P.451

- POINT**
Notes on selection
- When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
 - Value when operated at payload acceleration of 0.3G. This is the maximum acceleration.

Actuator Specifications Table

Lead and Load Capacity

Model	Motor output (W)	Lead (mm)	Maximum load capacity		Rated thrust (N)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCS2-SS8C-①-100-20-②-③-④-⑤	100	20	20	4	84.9	50 to 1000 (each 50mm)
RCS2-SS8C-①-100-10-②-③-④-⑤		10	40	8		
RCS2-SS8C-①-150-20-②-③-④-⑤	150	20	30	6	128	
RCS2-SS8C-①-150-10-②-③-④-⑤		10	60	12		

Stroke and Maximum Speed

Stroke Lead	50 to 600 (each 50mm)	~700 (mm)	~800 (mm)	~900 (mm)	~1000 (mm)
20	1000	960	765	625	515
10	500	480	380	310	255

(Unit: mm/s)

Legend: ① Encoder category ② Stroke ③ Response controller ④ Cable length ⑤ Option

① Encoder type and ② Stroke Price Table

② Stroke (mm)	Type symbol			
	SS8C			
	Encoder type			
	Incremental		Absolute	
	Motor W number		Motor W number	
	100W	150W	100W	150W
50/100	—	—	—	—
150/200	—	—	—	—
250/300	—	—	—	—
350/400	—	—	—	—
450/500	—	—	—	—
550/600	—	—	—	—
650/700	—	—	—	—
750/800	—	—	—	—
850/900	—	—	—	—
950/1000	—	—	—	—

④ Cable Length Price Table

Category	Cable mark	Standard price
Standard type	P (1m)	—
	S (3m)	—
	M (5m)	—
Specified 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 P394 for details on maintenance cable.

⑤ Option Price Table

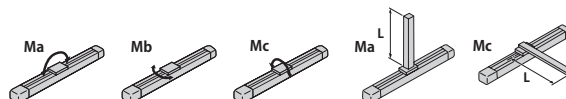
Name	Option mark	Reference page	Standard price
Brake	B	P437	—
Reversed-home specification	NM	P442	Free
Specification for Slider Roller	SR	P445	—

Actuator Specifications

Item	Details
Drive method	Ball Screw ϕ 16mm Roller process C10
Positioning repeatability	± 0.02 mm
Backlash	0.1mm or less
Base	Material Special Steel Alloy
Allowable load moment	Ma: 36.3N·m Mb: 36.3N·m Mc: 77.4N·m
Overhang load length	Ma direction 450mm or less Mb, Mc direction 450mm or less
Ambient operating temperature, humidity	0 to 40°C, 85%RH or below (non-condensing)

Direction of allowable load moment

Overhang load length



Dimensional Drawings

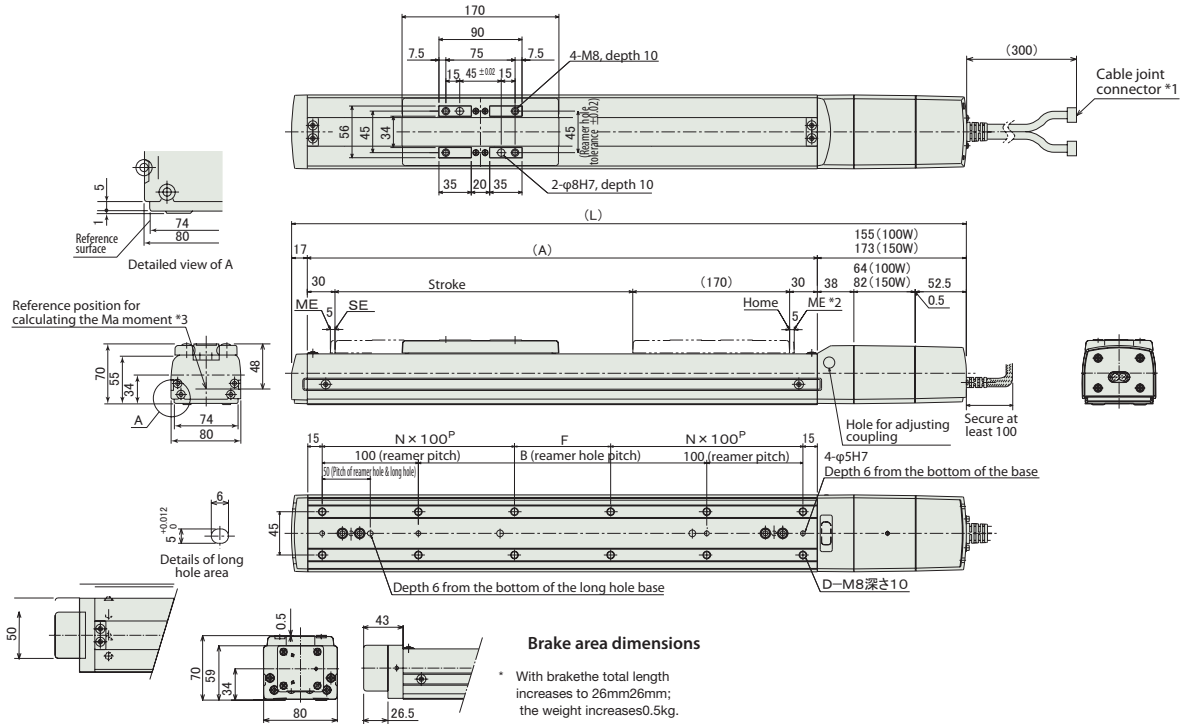
CAD drawings can be downloaded from the website.

www.intelligentactuator.com



- *1 Connect motor encoder cable. See P394 for details on cables.
- *2 The slider moves to the ME during home return. Pay attention to prevent contact between the slider and surrounding parts.
ME: Mechanical end SE: Stroke end
- *3 Reference position for calculating Ma moment

Information on special orders P.454



■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L (100W)	452	502	552	602	652	702	752	802	852	902	952	1002	1052	1102	1152	1202	1252	1302	1352	1402
L (150W)	470	520	570	620	670	720	770	820	870	920	970	1020	1070	1120	1170	1220	1270	1320	1370	1420
A	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230
B	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
D	8	8	8	10	12	12	12	14	16	16	18	20	20	20	22	24	24	24	24	26
F	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
Weight (kg)	6.0	6.5	7.1	7.6	8.2	8.7	9.3	9.8	10.4	10.9	11.5	12.0	12.6	13.1	13.7	14.2	14.8	15.3	15.9	16.4

Compatible Controllers

RCS2 Series Actuators can be operated with the following controllers. Please select a type that corresponds to your use.

Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power supply capacity	Standard price	Reference page
Positioner Mode		SCON-C-100①-NP-2-② SCON-C-150①-NP-2-②	Maximum number of positioning points Positioning is possible.	512 points	Single-phase AC 100V Single-phase AC 200V 3-phase AC 200V (XSEL-P/Q only)	Maximum 360VA *1 axis specification For 150W operation	—	P385
Solenoid			Same as solenoid valve Operation possible with controller	7 points				
Serial Communications Type			Serial communications Dedicated-use type	64 points				
Pulsetrain input Control type			Pulse train input Dedicated-use type	(-)				
Program control 1-2 axis type		SSEL-C-1-100①-NP-2-② SSEL-C-1-150①-NP-2-②	Programmable type Capable of operating up to 2-axis	20000 points			—	P415
Program control 1-6 axis type		XSEL-③-1-100①-N1-EEE-2-④ XSEL-③-1-150①-N1-EEE-2-④	Programmable type Maximum of 6-axis operation possible	4000 points			—	P425

*SSEL, XSEL is for 1-axis specification.
 *(1) Indicates the encoder type (I: Incremental /A: Absolute) is needed.
 *(2) Power source voltage type needed is (1:100V/2:Single-phase 200V).
 *(3) XSEL typenames (J/K/P/Q) needed.
 *(4) Power source voltage type needed is (1:100V/2:Single-phase 200V/3:3-phase 200V).

- Controller-Integrated
- Slider Type
- Rod Type
- Table Arm/Fat
- Gripper/Rotary Type
- Cleanroom
- Splash-resistant
- Controller
- Coupling
- Built-in (Direct)
- Reverse-mounted
- Pulse Motor 20P
- Pulse Motor 28P
- Pulse Motor 35P
- Pulse Motor 42P
- Pulse Motor 56P
- Pulse Motor 86P
- Servo Motor 10W
- Servo Motor 20W
- Servo Motor 30W
- Servo Motor 60W
- Servo Motor 100W
- Servo Motor 150W
- Servo Motor 750W