

Standard
Controllers
Integrated
Mini
Standard
Controllers
Integrated
Table/Arm
//Flat Type
Mini
Standard
Gripper
Rotary Typ

Cleanroon
Typ

Splash-Proo

Controller

PMEC
/AMEC
PSEP
/ASEP
/ASEP
ROBO
NET

ERC2
PCON
ACON
ACON
SCON
PSEL
ASEL
XSEL

ROBO Cylinder Slider Type 52mm Width 200V Servo Motor Motor Built-In (Direct Coupled)

 \blacksquare Configuration: RCS2 - SA5D 20 Type

20: 20W Serve

* See page Pre-35 for explanation of each code that makes up the configuration name.

12:12mm 6: 6mm 3: 3mm

50: 50mm 500:500mm (50mm pitch

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



4

65.7

Actuator Specifications

RCS2-SA5D-1 -20-3-2 -3 -4 -5

■ Lead and Load Capacity Lead (mm) Max. Load Capacity Stroke (mm) Output (W) Thrust (N RCS2-SA5D-①-20-12-②-③-④-⑤ 12 16.7 50 ~ 500 (50mm RCS2-SA5D- 1 -20-6- 2 - 3 - 4 - 5 20 2 6 8 33.3

Stroke and Maximum Speed 50 ~ 450 500 12 800 760 6 400 380 200 190 (Unit: mm/s)

Encoder & Stroke List

	Standard Price					
② Stroke (mm)	① Encoder Type					
	Incremental	Absolute				
	I	A				
50	_	_				
100	_	-				
150	_	-				
200	_	-				
250	_	_				
300	-	-				
350	_	_				
400	-	-				
450	_	_				
500	_	_				

Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options

Cable List

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

^{*} For cables for maintenance, see page A-39.

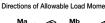
⑤ Option List

Name	Option Code	See Page	Standard Price		
Brake (Cable exiting end)	BE	→ A-25	_		
Brake (Cable exiting left)	BL	→ A-25	_		
Brake (Cable exiting right)	BR	→ A-25	_		
Reversed-home	NM	→ A-33	_		
Slider Roller	SR	→ A-36	_		

Actuator Specifications

Item	Description				
Drive System	Ball screw Ø10mm C10 grade				
Positioning Repeatability	±0.02mm				
Lost Motion	0.1mm or less				
Base	Material: Aluminum (white alumite treated)				
Allowable Static Moment	Ma: 18.6N·m Mb: 26.6N·m Mc: 47.5N·m				
Allowable Dynamic Moment (*)	Ma: 4.9N·m Mb: 6.8N·m Mc: 11.7N·m				
Overhang Load Length	Ma direction: 150mm or less Mb·Mc direction: 150mm or less				
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (Non-condensing)				

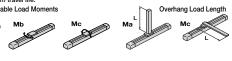
(*) Based on 5,000km travel life







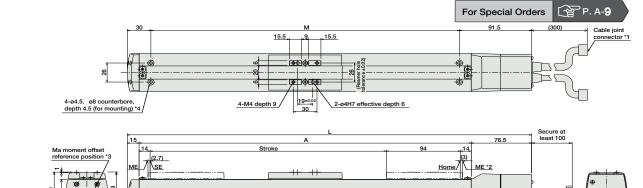


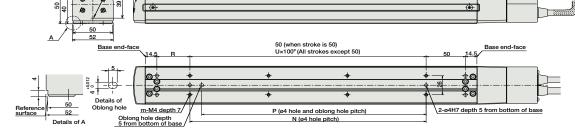


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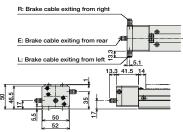
sales@electromate.com







Dimensions of the Brake Section



* Adding a brake increases the actuator's overall length (L) by 26.5mm (39.8mm with the cable coming out its end), and its weight by 0.3kg.

- The motor-encoder cable is connected here. See page A-39 for details on cables.

 When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical end SE: Stroke end
- Reference position for calculating the moment Ma.

 If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 300mm or less.

■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500
L	263.5	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5
Α	172	222	272	322	372	422	472	522	572	622
М	142	192	242	292	342	392	442	492	542	592
N	50	100	100	200	200	300	300	400	400	500
Р	35	85	85	185	185	285	285	385	385	485
R	42	42	92	42	92	42	92	42	92	42
U	-	1	1	2	2	3	3	4	4	5
m	4	4	4	6	6	8	8	10	10	12
Weight (kg)	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3

③ Compatible Controllers

The RCS2 series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Positioner Mode		SCON-C-20①-NP-2-②	Positioning is possible for up to 512 points	512 points		360VA max. *When operating a 150W single-axis model	-	→ P547
Solenoid Valve Mode			Operable with same controls as solenoid valve.	7 points	Single-Phase AC			
Serial Communication Type			Dedicated to serial communication	64 points	Single-Phase AC 100V Single-Phase AC 200V 3-Phase AC 200V (XSEL-P/Q only)			
Pulse Train Input Control Type			Dedicated to Pulse Train Input	(-)				
Program Control 1-2 Axis Type		SSEL-C-1-20①-NP-2-②	Programmed operation is possible Can operate up to 2 axes	20000 points		(XSEL-P/Q only)		-
Program Control 1-6 Axis Type	Pilled	XSEL-③-1-20①-N1-EEE-2-④	Programmed operation is possible Can operate up to 6 axes	20000 points			-	→ P587

- *For SSEL and XSEL, only applicable to the single-axis model.

 *① is a placeholder for the encoder type (I: incremental, A: absolute).

 *② is a placeholder for the power supply voltage (I: 100V, 2: single-phase 200V, 3: 3-phase 200V).

 *③ is a placeholder for the XSEL type name (J, K, P, or Q).

 *④ is a placeholder for the power supply voltage (I: 100V, 2: single-phase 200V, 3: 3-phase 200V).

IAI

RCS2-SA5D 114



PMEC /AMEC PSEP /ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL SSEL