Mini
Standard
Controllers
Integrated

Rod
Vype
Mini
Standard
Controllers
Integrated

Table/Arm
//Flat Typ
Mini
Standard

Controlles

PMEC /AMEC

PSEP /ASEP

ROBO NET

ERC2

PCON

ACON

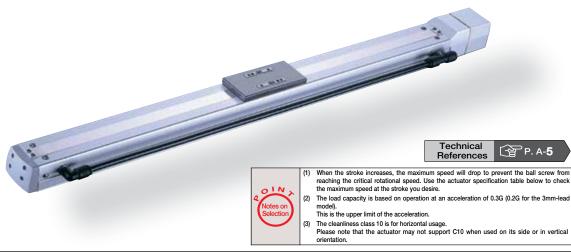
SCON

PSEL

SSEL

XSEL

#### Cleanroom ROBO Cylinder Slider Built-In Type 52mm Width 200V Servo Motor Aluminum Base RCS2CR- SA5D-20 Motor Encoder Compatible Control Cable Length Series — Type Lead Stroke Option N: None P:1m S:3m M:5m X : ( 20 : 20W servo 12:12mm I :Incremental 50: 50mm T1:XSEL-J/K See Options below T2:SCON A:Absolute motor 6: 6mm 500: 500mm SSEL XSEL-P/Q (50mm pitch \* See page Pre-35 for an explanation of the naming convention.



#### Actuator Specifications ■ Lead and Load Capacity ■ Stroke, Max. Speed/Suction Volume Max. Load Capacity 50~450 (50mm Lead (mm) Stroke (mm) Suction Volume (NI/min) Output (W) Thrust (N) RCS2CR-SA5D-1-20-12-2-3-4-5 12 16.7 12 800 760 50 50~500 RCS2CR-SA5D- ① -20-6- ② - ③ - ④ - ⑤ 20 2 6 33.3 400 380 30 8 6 (50mm RCS2CR-SA5D-1-20-3-2-3-4-5 4 65.7 200 15 Legend: ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options

## ① Encoder & Stroke List

	Standard Price				
Stroke (mm)	Encode	er Type			
	Incremental	Absolute			
	I	Α			
50	_	-			
100	-	-			
150	-	_			
200	-	-			
250	-	_			
300	-	-			
350	-	-			
400	_	-			
450	_	_			
500	-	-			

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Name	Option Code	See Page	Standard Price	
Brake (Cable exiting from end)	BE	→ A-25	-	
Brake (Cable exiting from left)	BL	→ A-25	-	
Brake (Cable exiting from right)	BR	→ A-25	-	
Reversed-home	NM	→ A-33	-	
Intake port mounted on opposite side	VR	→ A-38	-	

## 4 Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard Type	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)	_

<sup>\*</sup> See page A-39 for cables for maintenance.

#### 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 Length	Ma direction: 150mm or less; Mb, Mc direction: 150mm or less
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

(\*) Based on a 5,000km service life.

**Directions of Allowable Load Moments** 



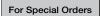




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sales@electromate.com





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

FOR STATE OF

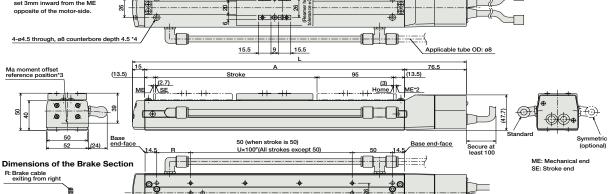
If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 300mm or less.

change the home orientation, arrangements must be made to send in the product to IAI.

In the reversed-home model (NM), the new home position is set 3mm inward from the ME opposite of the motor-side.



(300) Cable joint connector\*1



P (ø4 hole and oblong hole pitch)

13.3 41.5 13.5

E: Brake cable exiting from end L: Brake cable exiting from left 5.1

Adding a brake will increase the actuator's overall length by 26.5m (39.8mm with the cable coming out the end), and its weight by 0.3kg

# ■ Dimensions and Weight by Stroke

2-ø4H7 depth 5 from bottom of base

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
M	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)	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.5

### ③ Compatible Controllers

The RCS2CR series actuators can operate with the controllers below. Select the controller according to your usage.

m-M4 depth 7

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.				
Solenoid Valve Mode			Operable with the same controls as the solenoid valve	7 points				→ P547		
Serial Communication Type			Dedicated to serial communication	64 points	Single-phase AC100V Single-phase AC200V		_	→ P047		
Pulse Train Input Control Type			Dedicated to pulse train input	(-)	Three-phase AC200V (XSEL-P/Q only)	* When operating a 150W single-axis model				
Program Control 1-2 Axes Type		SSEL-C-1-20①-NP-2-②	Programmed operation is possible Operation is possible on up to 2 axes	20000 points					-	→ P577
Program Control 1-6 Axes Type	Pilled	XSEL-3-1-20①-N1-EEE-2-④	Programmed operation is possible Operation is possible on 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 (1: 100V, or 2: single-phase 200V).

\* ③ is a placeholder for the XSEL type name ("\", "\", "\", "\", "\", or "\").

\* ④ is a placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, 3: 3-phase 200V).

IAI

RCS2CR-SA5D **438** 





PMEC (AMEC)
PSEP
ASEP
ASEP
ACON
ACON
SCON
PSEL
ASEL