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



Cleanroom Robo Cylinder, Slider Type, Coupled, Actuator Width 40mm, 200V Servo Motor, Aluminum Base

Model Specification Items | RCS2CR | SA4C | Series | Type | -— Encoder type — Motor type

I: Incremental

A: Absolute

Lead

5mm 2.5: 2.5mm

20

20: 20W Servo

motor

Stroke 10: 10mm

400: 400mm

50: 50mm

Applicable controller T1: XSEL-J/K T2: SCON MSCON

SSEL XSEL-P/O

P: 1m S: 3m M:5m X□□:Custom length R□□: Robot cable

N: None

Cable length

— Options

See options below.

(50mm pitch increments)

XSEL-R/S

 $C \in$ RoHS

*CE compliance is optional.



(1) When the stroke increases, the maximum will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

(2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2.5mm-lead model). These values are the upper limits for the acceleration.

(3) See page A-71 for details on push motion.

Actuator Specifications

*This product is equipped with a position adjusting screw at the A area shown above. (See dimensional drawing on the page to the right.)

■ Lead and Payload

Model number	Motor output (W)	Lead (mm)	Max. Load Capacity Horizontal (kg) Vertical (kg)		Rated thrust (N)	Stroke (mm)	
RCS2CR-SA4C-①-20-10-②-③-④-⑤		10	4	1	19.6		
RCS2CR-SA4C-①-20-5-②-③-④-⑤	20	5	6	2.5	39.2	50~400 (every 50mm)	
RCS2CR-SA4C-①-20-2.5-②-③-④-⑤		2.5	8	4.5	78.4		

■ Stroke and Max. Speed/Suction Volume by Lead 50~400 Suction Volume Lead (every 50mm) (Nl/min) 10 665 50 5 330 30 15

Code explanation ① Encoder ② Stroke ③ Applicable Controller ④ Cable length ⑤ Options *See page A-71 for details on push motion.

(Unit: mm/s

①Encoder type/②Stroke

	Standard price				
②Stroke (mm)	①Encoder Type				
Stroke (mm)	Incremental	Absolute			
	I	Α			
50	_	_			
100	_	_			
150	_				
200	_				
250	_	_			
300	_				
350	_	_			
400	_	_			

4 Cab	le l	Leng	ıth
-------	------	------	-----

Type	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	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)	_

^{*} See page A-59 for cables for maintenance.

(5) Options

Name	Option code	See page	Standard price
1 1	Option code		Standard price
Brake	В	→ A-42	_
CE compliance	CE	→ A-42	_
Foot bracket	FT	→ A-48	_
Home sensor	HS	→ A-50	_
Non-motor end specification	NM	→ A-52	_
Slider spacer	SS	→ A-55	_
Vacuum port on opposite side	VR	→ A-58	_

Actuator Specifications

Actuator Specifications	
Item	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma: 6.9 N·m, Mb: 9.9 N·m, Mc: 17.0 N·m
Allowable dynamic moment (*)	Ma: 2.7 N·m, Mb: 3.9 N·m, Mc: 6.8 N·m
Allowable overhang	120mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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







CAD drawings can be downloaded www.intelligentactuator.com

For Special Orders



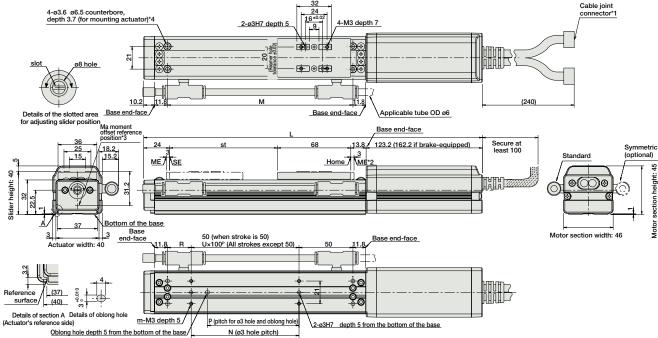




- (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
- (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.
- Reference position for calculating the moment Ma.

ME: Mechanical end SE: Stroke end

(*4) 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 200mm or less. Cable ioint



d Waight by Strak

*Brake-equipped models

■ Dii	■ Dimensions and Weight by Stroke are heavier by 0.3					3kg.			
	Stroke	50	100	150	200	250	300	350	400
	Without brake	279	329	379	429	479	529	579	629
-	With brake	318	368	418	468	518	568	618	668
	М	122	172	222	272	322	372	422	472
	N	50	100	100	200	200	300	300	400
	Р	35	85	85	185	185	285	285	385
	R	22	22	72	22	72	22	72	22
	U	-	1	1	2	2	3	3	4
	m	4	4	4	6	6	8	8	10
	Weight (kg)	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4

③Applicable Controllers

RCS2CR-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner mode			Up to 512 positioning points are supported.	512 points				
Solenoid valve mode	II	ti	Actuators can be operated through the same control used for solenoid valves.	7 points			_	→ P643
Field network type		SCON-CA-20()-INF-2-(II)	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	*Power supply capacity will	_	7 7043
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	ingle-phase 200VAC vary depending on the controller, so please refer to the instruction	_	
Positioner multi-axis, network type	一份被	MSCON-C-1-20①-①-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase pleas 200VAC the ir (XSEL-P/Q/R/S manu		_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-⑪	Program operation is supported. Up to 2 axes can be operated.	20,000 points			_	→ P685
Program control type, 1 to 8 axes	Pilled	XSEL-(1)-1-20(1)-N1-EEE-2-(1)	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695

- *This is for the single-axis MSCON, SSEL, and XSEL.

 * ⊕ indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).

 * ⊕ indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V).

 * ⊕ indicates the encoder type (1: Incremental / A: Absolute).

 * ⊕ indicates the XSEL type (J / K / P / Q / R / S).

 * ⊕ indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).