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



Cleanroom Robo Cylinder, Slider, Built-in Type, Actuator Width 58mm, 200V Servo Motor, Aluminum Base

Model Specification Items RCS2CR SA6D — Series — Type —

— Encoder type — Motor type — I: Incremental

A: Absolute

30 Lead 30:30W Servo 12:12mm

6: 6mm

3: 3mm

motor

Stroke 50: 50mm

600:600mm

(50mm pitch increments)

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

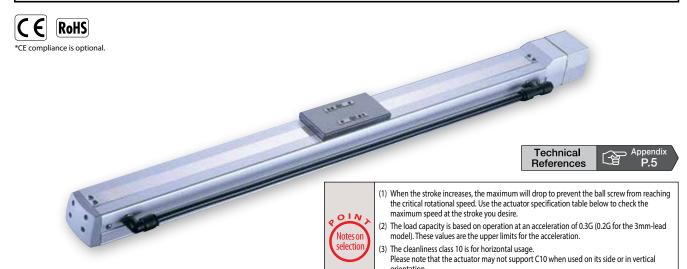
N: None P: 1m S: 3m

Cable length

Options See options below.

MSCON SSEL XSEL-P/O M:5m

X□□: Custom length XSEL-R/S R□□: Robot cable



### Actuator Specifications ■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead Max. Load Capacity Motor Lead Rated Stroke Stroke 50~450 500 600 550 Model number output (W) thrust (N) (mm) every 50mm) (mm) mm Horizontal (kg) Vertical (kg) mm mm RCS2CR-SA6D-10-30-12-20-30-40-50 12 24.2 6 1.5 12 800 760 640 540 50 RCS2CR-SA6D-①-30-6-②-③-④-⑤ 50~600 30 48.4 6 400 380 320 270 30 (every 50mm)

6

96.8

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

3

7

3

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

Type	Cable symbol	Standard price
	<b>P</b> (1m)	1
Standard	<b>S</b> (3m)	_
	<b>M</b> (5m)	_
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_
	R01 (1m) ~ R03 (3m)	_
	R04 (4m) ~ R05 (5m)	_
Robot Cable	<b>R06</b> (6m) ~ <b>R10</b> (10m)	_
	<b>R11</b> (11m) ~ <b>R15</b> (15m)	_
	R16 (16m) ~ R20 (20m)	_

200

190

160

135

15

(Unit: mm/s)

### Actuator Specifications

ltem	Description				
Drive System	Ball screw, ø10mm, rolled C10				
Positioning repeatability	±0.02mm				
Lost Motion	0.1mm or less				
Base	Material: Aluminum, white alumite treated				
Allowable static moment	Ma:38.3 N·m, Mb: 54.7 N·m, Mc: 81.0 N·m				
Allowable dynamic moment (*)	Ma: 8.9 N·m, Mb: 12.7 N·m, Mc: 18.6 N·m				
Allowable overhang	220mm 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 Directions of Allowable Load Moment









Standard price ①Encoder Type ②Stroke (mm) Incremental Absolute 100 150 200 250 300 350 400 450 500 550

RCS2CR-SA6D-①-30-3-②-③-④-⑤

①Encoder type/②Stroke

Name Option code See page Standard price Brake (cable exiting from end) BE → A-42 Brake (cable exiting from left) → A-42 Brake (cable exiting from right) BR → A-42 CE compliance CE → A-42 Non-motor end specification NM → A-52

VR

→ A-58

RCS2CR-SA6D

Vacuum port on opposite side

600

**⑤ Options** 

<sup>\*</sup> See page A-59 for cables for maintenance.

# CAD drawings can be downloaded www.intelligentactuator.com

For Special Orders





Reference

surface

\* Note that in order to change the home orientation, arrangements must be made to send in the product to IAI.

56

58

Hi)

Details of A

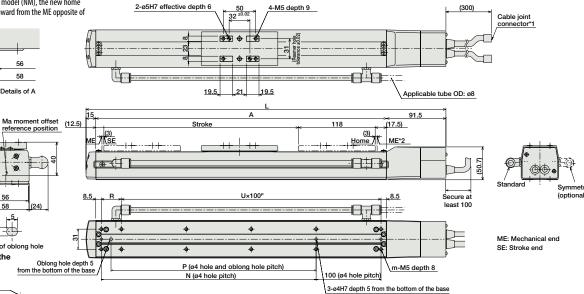
Details of oblong hole

Dimensions of the Brake Section

R: Brake cable

(\*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.

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



exiting from right E: Brake cable exiting from end L: Brake cable exiting from left 13.3 41.5 12.5

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

# ■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	304.5	354.5	404.5	454.5	504.5	554.5	604.5	654.5	704.5	754.5	804.5	854.5
Α	198	248	298	348	398	448	498	548	598	648	698	748
N	81	131	181	231	281	331	381	431	481	531	581	631
Р	66	116	166	216	266	316	366	416	466	516	566	616
R	81	31	81	31	81	31	81	31	81	31	81	31
U	1	2	2	3	3	4	4	5	5	6	6	7
m	6	8	8	10	10	12	12	14	14	16	16	18
Weight (kg)	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.5	3.6

# 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		*Power supply capacity will vary depending on the controller, so please refer to the instruction manual for details.				
Solenoid valve mode	iii	SCON-CA-30D(ĵ)-NP-2-(ĵi)	Actuators can be operated through the same control used for solenoid valves.	7 points						_
Field network type		SCUN-CA-30D(J-NP-2-(J)	Movement by numerical specification is supported.	768 points	Single-phase 100VAC		_	→ P043		
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC		_			
Positioner multi-axis, network type	目标	MSCON-C-1-30D①-①-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)		the instruction manual for	the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-30D①-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	Pilita	XSEL-@-1-30D()-N1-EEE-2-()	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.

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

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

\* ② indicates the encoder type (1: Incremental / A: Absolute).

\* ② indicates the XSEL type (J / K / P / Q / R / S).

\* ② indicates field network specification symbol.