

RCS2CR-SS7C

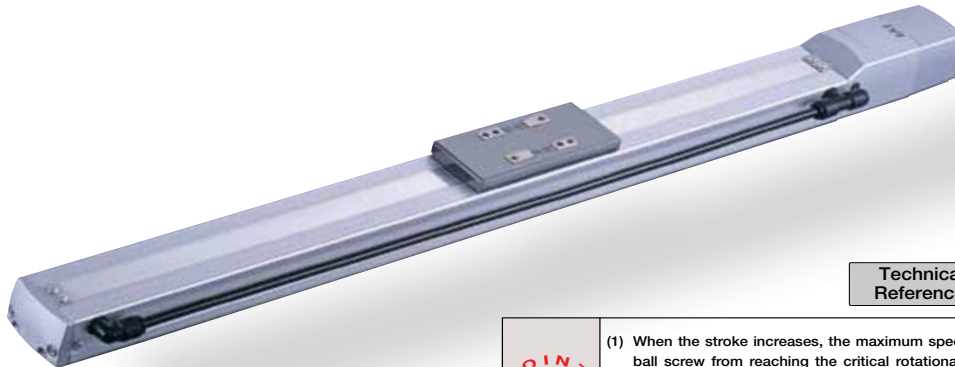
Cleanroom ROBO Cylinder Slider Coupling Type 60mm Width 200V Servo Motor Steel Base

■ Configuration: **RCS2CR** — **SS7C** — — **60** — — — — —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I : Incremental A : Absolute 60 : 60W servo motor 12:12mm 6: 6mm 50: 50mm 600: 600mm (50mm pitch increments) T1:XSEL-J/K T2:SCON SSEL XSEL-P/Q N : None P : 1m S : 3m M : 5m X : Custom R : Robot cable See Options below

* See page Pre-35 for an explanation of the naming convention.



Technical References P. A-5

- Notes on Selection**
- (1) When the stroke increases, the maximum speed 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. This is the upper limit of the acceleration.

Actuator Specifications

■ Lead and Load Capacity

Model	Motor Output (W)	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCS2CR-SS7C-①-60-12-②-③-④-⑤	60	12	15	4	85	50~600 (50mm increments)
RCS2CR-SS7C-①-60-6-②-③-④-⑤		6	30	8	170	

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

■ Stroke, Max. Speed/Suction Volume

Lead	Stroke	50 ~ 600 (50mm increments)	~ 600 (mm)	Suction Volume (Nl/min)
	Lead	Stroke	Stroke	
12	600	470	50	
6	300	230	30	

(Unit: mm/s)

① Encoder & Stroke List

Stroke (mm)	Standard Price	
	Encoder Type	
	Incremental	Absolute
	I	A
50/100	-	-
150/200	-	-
250/300	-	-
350/400	-	-
450/500	-	-
550/600	-	-

④ Cable List

Type	Cable Symbol	Standard Price
Standard Type	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	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 page A-39 for cables for maintenance.

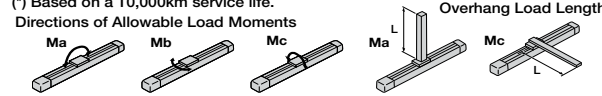
⑤ Option List

Name	Option Code	See Page	Standard Price
Brake	B	→ A-25	-
Reversed-home	NM	→ A-33	-
Intake port mounted on opposite side	VR	→ A-38	-

Actuator Specifications

Item	Description
Drive System	Ball screw ø10mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Special alloy steel
Allowable Static Moment	Ma: 79.4N·m Mb: 79.4N·m Mc: 172.9N·m
Allowable Dynamic Moment (*)	Ma: 14.7N·m Mb: 14.7N·m Mc: 33.3N·m
Overhang Length	Ma direction: 300mm or less; Mb, Mc directions: 300mm 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)

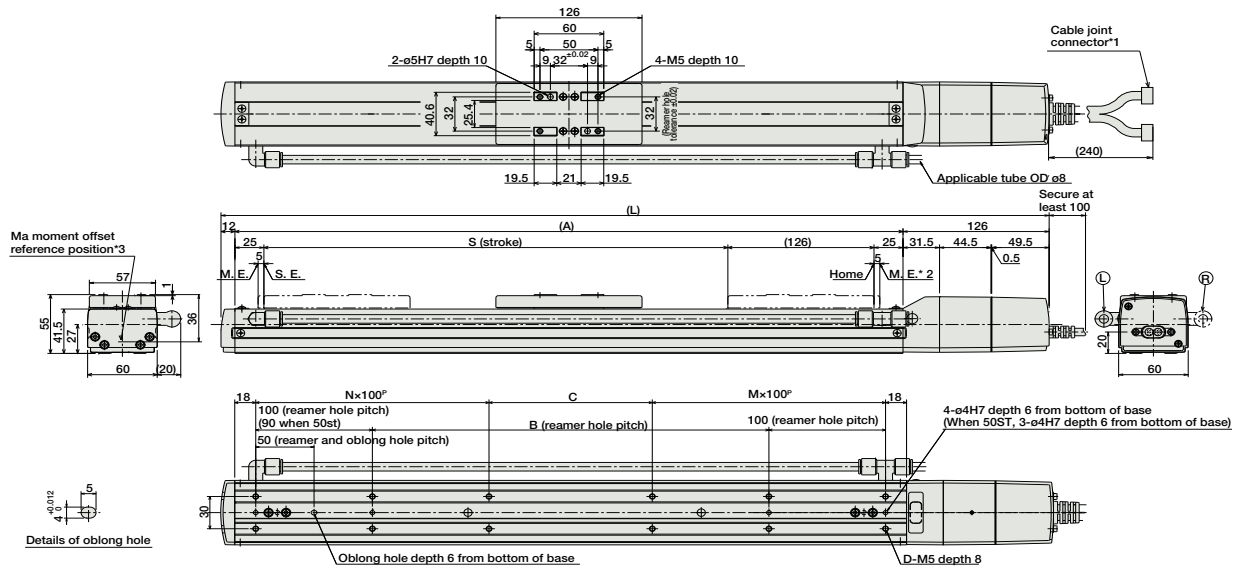
(*) Based on a 10,000km service life.



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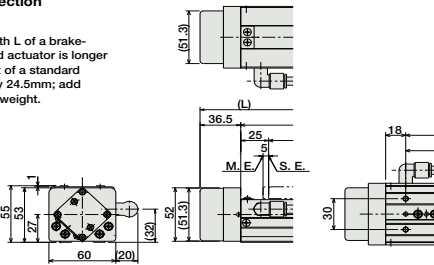
Dimensions

For Special Orders P. A-9



Dimensions of the Brake Section

*The length L of a brake-equipped actuator is longer than that of a standard model by 24.5mm; add 0.3kg to weight.



- 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
The values enclosed in "() " are reference dimensions.
- Reference position for calculating the moment Ma.

■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	364	414	464	514	564	614	664	714	764	814	864	914
A	226	276	326	376	426	476	526	576	626	676	726	776
B	0	40	90	140	190	240	290	340	390	440	490	540
C	90	40	90	140	190	40	90	140	190	40	90	140
D	6	8	8	8	8	12	12	12	12	16	16	16
M	1	1	1	1	1	2	2	2	2	3	3	3
N	0	1	1	1	1	2	2	2	2	3	3	3
Weight (kg)	3.1	3.4	3.7	4.0	4.4	4.7	5.0	5.3	5.7	6.0	6.3	6.6

③ Compatible Controllers

The RCS2CR 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-60①-NP-2-②	Positioning is possible for up to 512 points	512 points	Single-phase AC100V Single-phase AC200V Three-phase AC200V (XSEL-P/Q only)	360VA max. * When operating a 150W single-axis model	-	→ P547
Solenoid Valve Mode			Operable with the same controls as the solenoid valve	7 points				
Serial Communication Type			Dedicated to serial communication	64 points				
Pulse Train Input Control Type			Dedicated to pulse train input	(-)				
Program Control 1-2 Axes Type		SSEL-C-1-60①-NP-2-④	Programmed operation is possible Operation is possible on up to 2 axes	20000 points			-	→ P577
Program Control 1-6 Axes Type		XSEL-③-1-60①-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 ("J", "K", "P", or "Q").
- ④ is a placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, 3: 3-phase 200V).

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