

Actuator Specifications ■ Leads and Payloads ■ Stroke and Maximum Speed Maximum payload Stroke 50~500 (every 50mm) Motor output (w) Lead Model number Horizontal (kg) Vertical (kg) RCS2-SS7R-①-60-12-②-③-④-⑤ 50 to 600 470 12 15 85 12 600 60 (every 50mm)

8

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

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(Unit: r	nm/s
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①Encoder Type / ②Stroke

RCS2-SS7R-①-60-6-②-③-④-⑤

	Standard price				
②Stroke (mm)	①Encorder type				
	Incremental	Absolute			
	ı	Α			
50/100	_	_			
150/200	_	_			
250/300	_	_			
350/400	_	_			
450/500	_	_			
550/600					

	⑤O	ptions
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Name	Option code	Page	Standard Price
Brake	В	→ A-42	_
CE compliance	CE	→ A-42	_
Non-motor end specification	NM	→ A-52	_
Lelf-mounted motor (standard)	ML	→ A-52	_
Right-mounted motor	MR	→ A-52	_
Slider roller specification	SR	→ A-55	-

4 Cable Length

Туре	Cable symbol	Standard price
	P (1m)	_
Standard type	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)	_

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Actuator Specifications

ltem	Description
Drive method	Ball screw, ø10mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Base	Material: Special alloy steel
Allowable static moment	Ma: 79.4 N·m, Mb: 79.4 N·m, Mc: 172.9 N·m
Allowable dynamic moment (*)	Ma: 14.7 N•m, Mb: 14.7 N•m, Mc: 33.3 N•m
Overhang load length	Ma direction: 300mm or less, Mb/Mc directions: 300mm or less
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (No condensation)

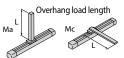
(*) When the traveling life is assumed as 5,000km.

Direction of allowable load moment.









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

Dimensional Drawings

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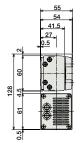


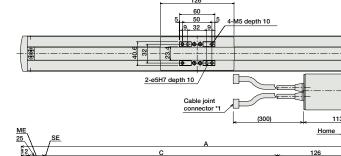




- *The reference surface is the same as the SS7C type. (See page 128) *The offset reference position for the Ma moment is the same as the SS7C type. (See page 128)
- (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 - The bend radius R of the cable is the same as other models.
- (*2) When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical end

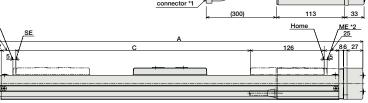
SE: Stroke end





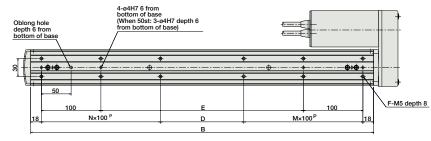
* Note that in order to change the home orientation, arrangements must be made to send in the product to IAI.

* For the Non-motor end model, the dimensions (distance from the ME to home) on the motor-side $\,$ and that on the opposite side are flipped.

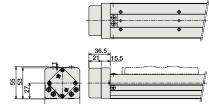


 $\ensuremath{^{*}}$ Adding a brake increases the actuator's overall length by 24.5mm and its weight by 0.3kg.





Dimensions of the Brake Section



■ Dimensions and Weights by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
Α	279	329	379	429	479	529	579	629	679	729	779	829
В	226	276	326	376	426	476	526	576	626	676	726	776
С	50	100	150	200	250	300	350	400	450	500	550	600
D	90	40	90	140	190	40	90	140	190	40	90	140
E	0	40	90	140	190	240	290	340	390	440	490	540
F	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	8	1	1	2	2	2	2	3	3	3
Weight (kg)	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.0

③Applicable Controllers

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		SCON-CA-60 (↑)-NP-2-(11)	Actuators can be operated through the same control used for solenoid valves.	7 points		218 VA max. *Power supply capacity will vary depending on the controller, so please refer		- → P643		
Field network type			Movement by numerical specification is supported.	768 points	Single-phase 100VAC		_			
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC		_			
Positioner multi-axis, network type	開稿	MSCON-C-1-60 ①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S ONLY)	200VAC (XSEL-P/Q/R/S	200VAC (XSEL-P/Q/R/S	to the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-60 ①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685		
Program control type, 1 to 8 axes	Mita	XSEL-@-1-60@-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).

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