

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm/Flat Type
- Mini
- Standard
- Gripper/Rotary Type
- Linear Servo Type
- Cleanroom Type
- Splash-Proof
- Controllers
- PMEC/AMEC
- PSEP/ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

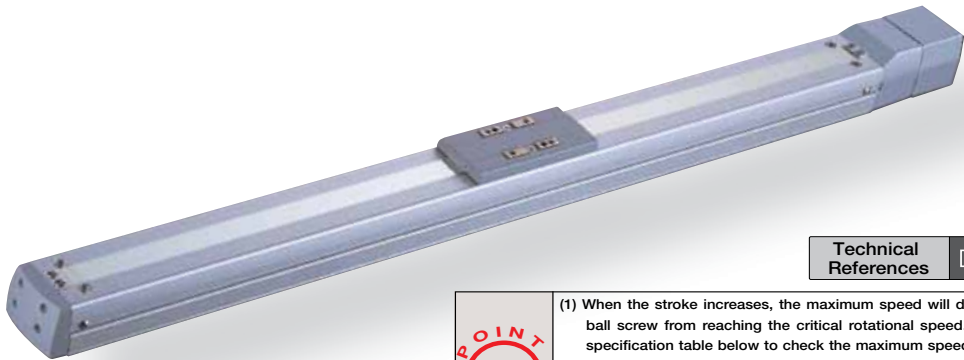
RCS2-SA6D ROBO Cylinder Slider Type 58mm Width 200V Servo Motor Motor Built-In (Direct Coupled)

■ Configuration: **RCS2** -- **SA6D** -- [] -- **30** -- [] -- [] -- [] -- [] -- []

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

<p>I : Incremental A : Absolute</p>	<p>30: 30W Servo motor</p>	<p>12: 12mm 6 : 6mm 3 : 3mm</p>	<p>50: 50mm 600: 600mm (50mm pitch increments)</p>	<p>T1: XSEL-J/K T2: SCON SSEL XSEL-P/Q</p>	<p>N : None P : 1m S : 3m M : 5m X [] : Custom Length R [] : Robot Cable</p>	<p>BE : Brake (Cable exiting end) BL : Brake (Cable exiting left) BR : Brake (Cable exiting right) NM : Reversed-home SR : Slider Roller</p>
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* See page Pre-35 for explanation of each code that makes up the configuration name.



Technical References P. A-5

- POINT**
Notes on Selection
- 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.
 - The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 3mm-lead model). These values are the upper limits for 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)		
RCS2-SA6D-①-30-12-②-③-④-⑤	30	12	6	1.5	24.2	50 ~ 600 (50mm increments)
RCS2-SA6D-①-30-6-②-③-④-⑤		6	12	3	48.4	
RCS2-SA6D-①-30-3-②-③-④-⑤		3	18	6	96.8	

■ Stroke and Maximum Speed

Stroke (mm)	50 ~ 450 (50mm increments)			
	Lead	500 (mm)	550 (mm)	600 (mm)
12	800	760	640	540
6	400	380	320	270
3	200	190	160	135

Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options (Unit: mm/s)

■ Encoder & Stroke List

② Stroke (mm)	Standard Price	
	① Encoder Type	
	Incremental	Absolute
50	-	A
100	-	-
150	-	-
200	-	-
250	-	-
300	-	-
350	-	-
400	-	-
450	-	-
500	-	-
550	-	-
600	-	-

④ Cable List

Type	Cable Symbol	Standard Price
Standard	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)	-
	R16 (16m) ~ R20 (20m)	-

* For cables for maintenance, see page A-39.

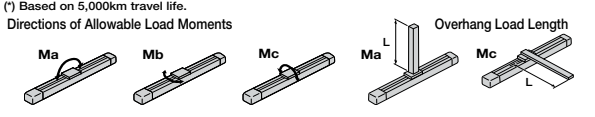
⑤ Option List

Name	Option Code	See Page	Standard Price
Brake (Cable exiting end)	BE	→ A-25	-
Brake (Cable exiting left)	BL	→ A-25	-
Brake (Cable exiting right)	BR	→ A-25	-
Reversed-home	NM	→ A-33	-
Slider Roller	SR	→ A-36	-

■ 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: 38.3N·m Mb: 54.7N·m Mc: 81.0N·m
Allowable Dynamic Moment (*)	Ma: 8.9 N·m Mb: 12.7 N·m Mc: 18.6 N·m
Overhang Load Length	Ma direction: 220mm or less Mb-Mc direction: 220mm or less
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (Non-condensing)

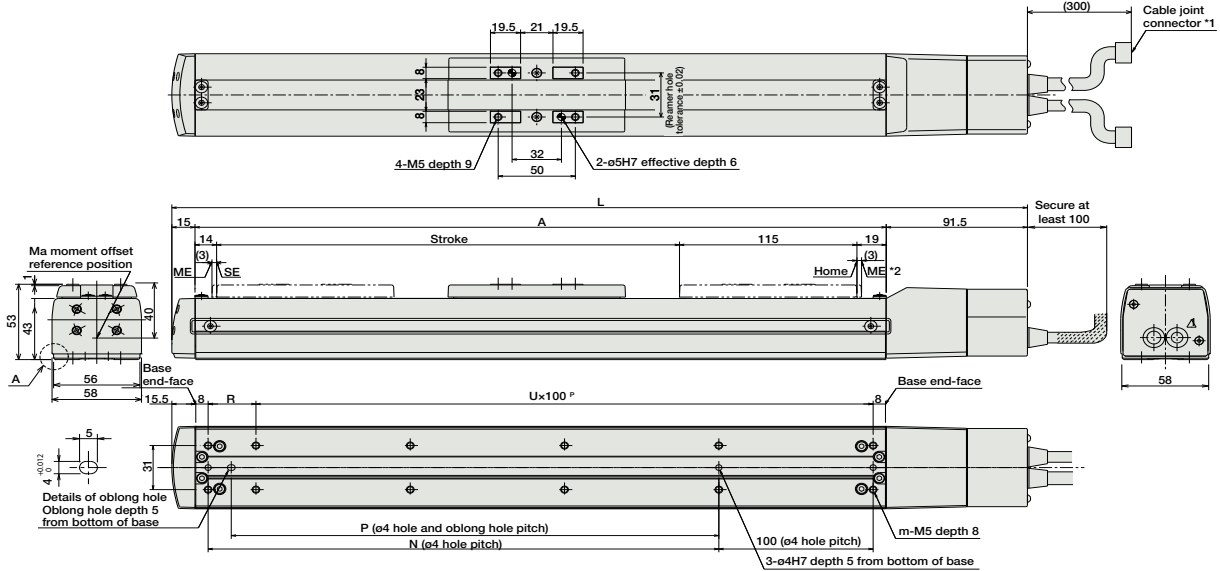
(*) Based on 5,000km travel life.



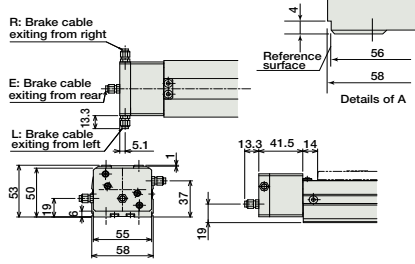
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Dimensions

For Special Orders P. A-9



Dimensions of the Brake Section



- *1 A motor-encoder cable is connected here. See page A-39 for details on cables.
- *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
- *3 Reference position for calculating the moment Ma.

■ Dimensions/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
A	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
P	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)	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5

* Adding a brake increases the actuator's overall length (L) by 26.5mm (33.8mm with the cable coming out its end), and its weight by 0.3kg.

③ Compatible Controllers

The RCS2 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-30D①-NP-2-②	Positioning is possible for up to 512 points	512 points	Single-Phase AC 100V Single-Phase AC 200V 3-Phase AC 200V (XSEL-P/Q only)	360VA max. * When operating a 150W single-axis model	-	→ P547
Solenoid Valve Mode			Operable with same controls as 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 Axis Type		SSEL-C-1-30D①-NP-2-②	Programmed operation is possible Can operate up to 2 axes	20000 points			-	→ P577
Program Control 1-6 Axis Type		XSEL-③-1-30D①-N1-EEE-2-④	Programmed operation is possible Can operate 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, 2: single-phase 200V, 3: 3-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).

Slider Type

Mini

Standard

Controllers Integrated

Rod Type

Mini

Standard

Controllers Integrated

Table/Arm /Flat Type

Mini

Standard

Gripper/ Rotary Type

Linear Servo Type

Cleanroom Type

Splash-Proof

Controllers

PMEC /AMEC

PSEP /ASEP

ROBO NET

ERC2

PCON

ACON

SCON

PSEL

ASEL

SSEL

XSEL

Pulse Motor

Servo Motor (24V)

Servo Motor (200V)

Linear Servo Motor