

RCA-SS6D

ROBO Cylinder Slider Type 58mm Width 24V Servo Motor
Motor Built-In (Direct-Coupled) Steel Base

■ Configuration: **RCA** — **SS6D** — **I** — **30** — [] — [] — [] — [] — []

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

I: Incremental
* Simple absolute encoder models are labeled as "I".

30: 30W Servo motor

Lead: 12: 12mm
6: 6mm
3: 3mm

Stroke: 50: 50mm
600: 600mm (50mm pitch increments)

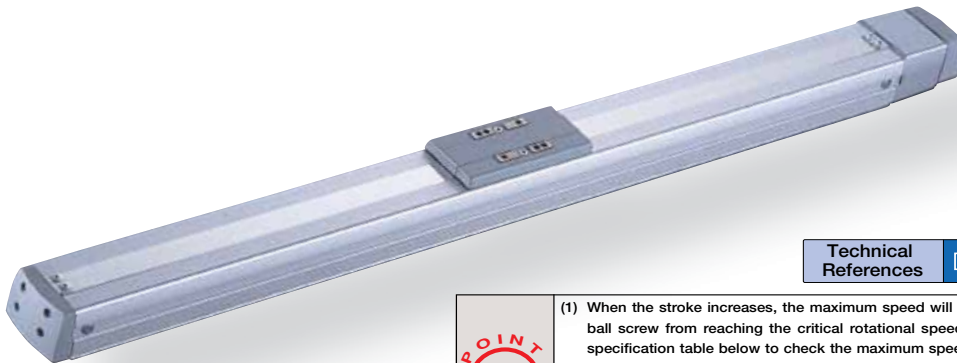
Compatible Controllers: A1: ACON, RACON, ASEL, A3: AMEC, ASEP

Cable Length: N: None, P: 1m, S: 3m, M: 5m, X: Custom Length, R: Robot Cable

Option: See Options below

* See page Pre-35 for explanation of each code that makes up the configuration name.

Power-saving



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							Stroke and Maximum Speed				
■ Lead and Load Capacity							■ Stroke and Maximum Speed				
Model	Motor Output (W)	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Stroke (mm)	Stroke / Lead	50 ~ 450 (50mm increments)	500 (mm)	550 (mm)	600 (mm)
RCA-SS6D-I-30-12-①-②-③-④	30	12	6	1.5	24.2	50 ~ 600 (50mm increments)	12	800	760	640	540
RCA-SS6D-I-30-6-①-②-③-④		6	12	3	48.4		6	400	380	320	270
RCA-SS6D-I-30-3-①-②-③-④		3	18	6	96.8		3	200	190	160	135

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

① Stroke List

Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-
250	-
300	-
350	-
400	-
450	-
500	-
550	-
600	-

③ 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)	-

* See page A-39 for cables for maintenance.

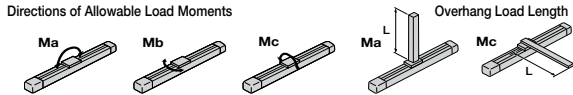
④ Option List

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	-
Power-saving	LA	→ A-32	-
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: Special alloy steel
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
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)

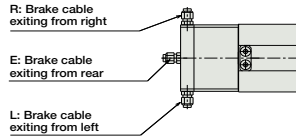
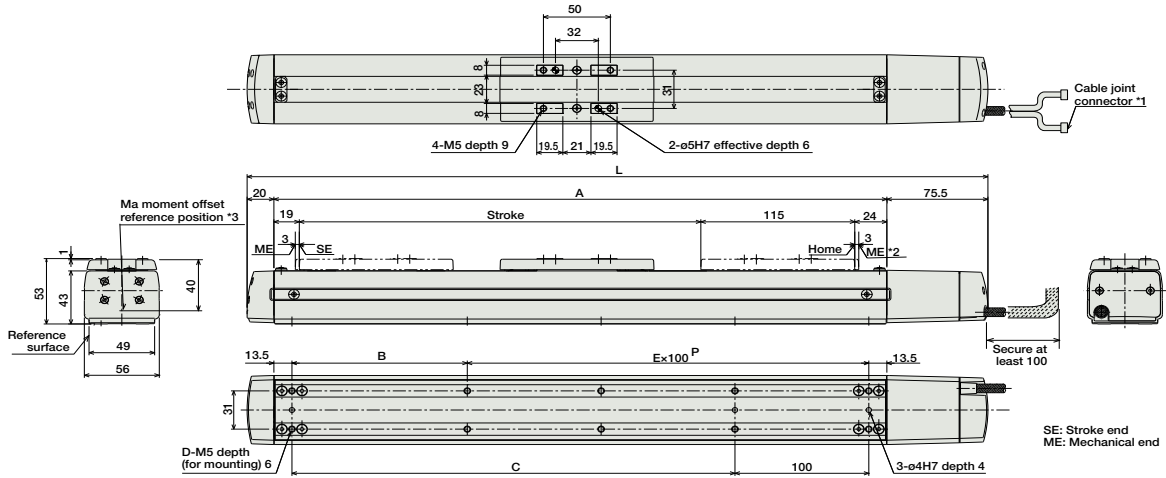
(*) Based on 5,000km travel life.



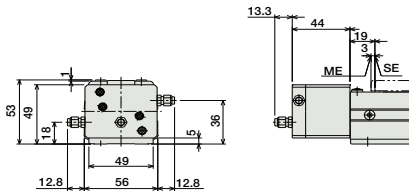
91 RCA-SS6D

Dimensions

For Special Orders P. A-9



- *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.



* Adding a brake will increase the actuator's overall length (L) by 24mm (37.3mm with the cable coming out from the end), and its weight by 0.3kg.

■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	303.5	353.5	403.5	453.5	503.5	553.5	603.5	653.5	703.5	753.5	803.5	853.5
A	208	258	308	358	408	458	508	558	608	658	708	758
B	81	131	181	231	281	331	381	431	481	531	581	631
C	81	131	181	231	281	331	381	431	481	531	581	631
D	6	6	8	8	10	10	12	12	14	14	16	16
E	1	1	2	2	3	3	4	4	5	5	6	6
Weight (kg)	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.7

② Compatible Controllers

The RCA 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
Solenoid Valve Type		AMEC-C-30②-NP-2-1	Easy-to-use controller, even for beginners	3 points	AC100V	2.4A rated	-	→ P477
		ASEP-C-30②-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.					→ P487
Splash-Proof Solenoid Valve Type		ASEP-CW-30②-NP-2-0						
Positioner Type		ACON-C-30②-NP-2-0	Positioning is possible for up to 512 points	512 points	DC24V	(Standard) 1.3A rated 4.4A max.	-	→ P535
Safety-Compliant Positioner Type		ACON-CG-30②-NP-2-0						
Pulse Train Input Type (Differential Line Driver)		ACON-PL-30②-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	(Power-saving) 1.3A rated 2.2A max.	-	→ P503
Pulse Train Input Type (Open Collector)		ACON-PO-30②-NP-2-0	Pulse train input type with open collector support					
Serial Communication Type		ACON-SE-30②-N-0-0	Dedicated to serial communication	64 points				
Field Network Type		RACON-30②	Dedicated to field network	768 points				→ P503
Program Control Type		ASEL-C-1-30②-NP-2-0	Programmed operation is possible Can operate up to 2 axes	1500 points				→ P567

* This is for the single-axis ASEL.
* ② is a placeholder for the code "LA" when the power-saving option is specified.

- 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