

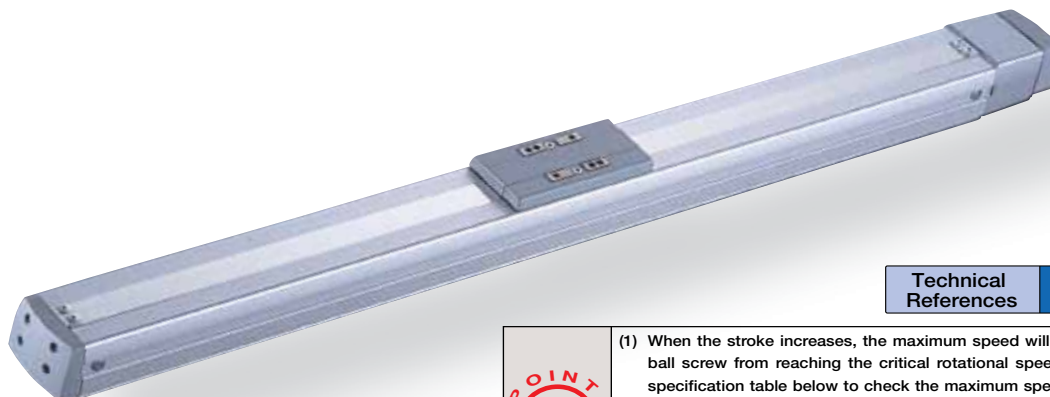
RCA-SA6D

ROBO Cylinder Slider Type 52mm Width 24V Servo Motor
Motor Built-In (Direct-Coupled)

■ Configuration:	RCA	SA6D		30						
	Series	Type	Encoder	Motor	Lead	Stroke	Compatible Controllers	Cable Length	Option	
			I: Incremental A: Absolute	30: 30W Servo motor	12: 12mm 6: 6mm 3: 3mm	50: 50mm 600: 600mm (50mm pitch increments)	A1: ACON RACON ASEL A3: AMEC ASEP	N: None P: 1m S: 3m M: 5m X: Custom Length R: Robot Cable	See Options below	

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

Power-saving



Technical
References

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- (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 (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 Horizontal (kg) / Vertical (kg)	Rated Thrust (N)	Stroke (mm)
RCA-SA6D-①-30-12-②-③-④-⑤	30	12	6 / 1.5	24.2	50 ~ 600 (50mm increments)
RCA-SA6D-①-30-6-②-③-④-⑤		6	12 / 3	48.4	
RCA-SA6D-①-30-3-②-③-④-⑤		3	18 / 6	96.8	

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

Stroke and Maximum Speed

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

(Unit: mm/s)

Encoder & Stroke List

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

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	—
Foot bracket	FT	→ A-29	—
Power-saving	LA	→ A-32	—
Reversed-home	NM	→ A-33	—
Slider Roller	SR	→ A-36	—

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)	—
		—

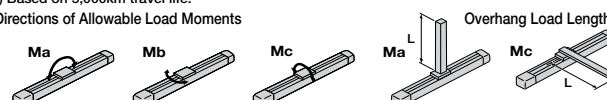
* See page A-39 for cables for maintenance.

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: 8.9N·m Mb: 12.7N·m Mc: 18.6N·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.

Directions of Allowable Load Moments



Dimensions

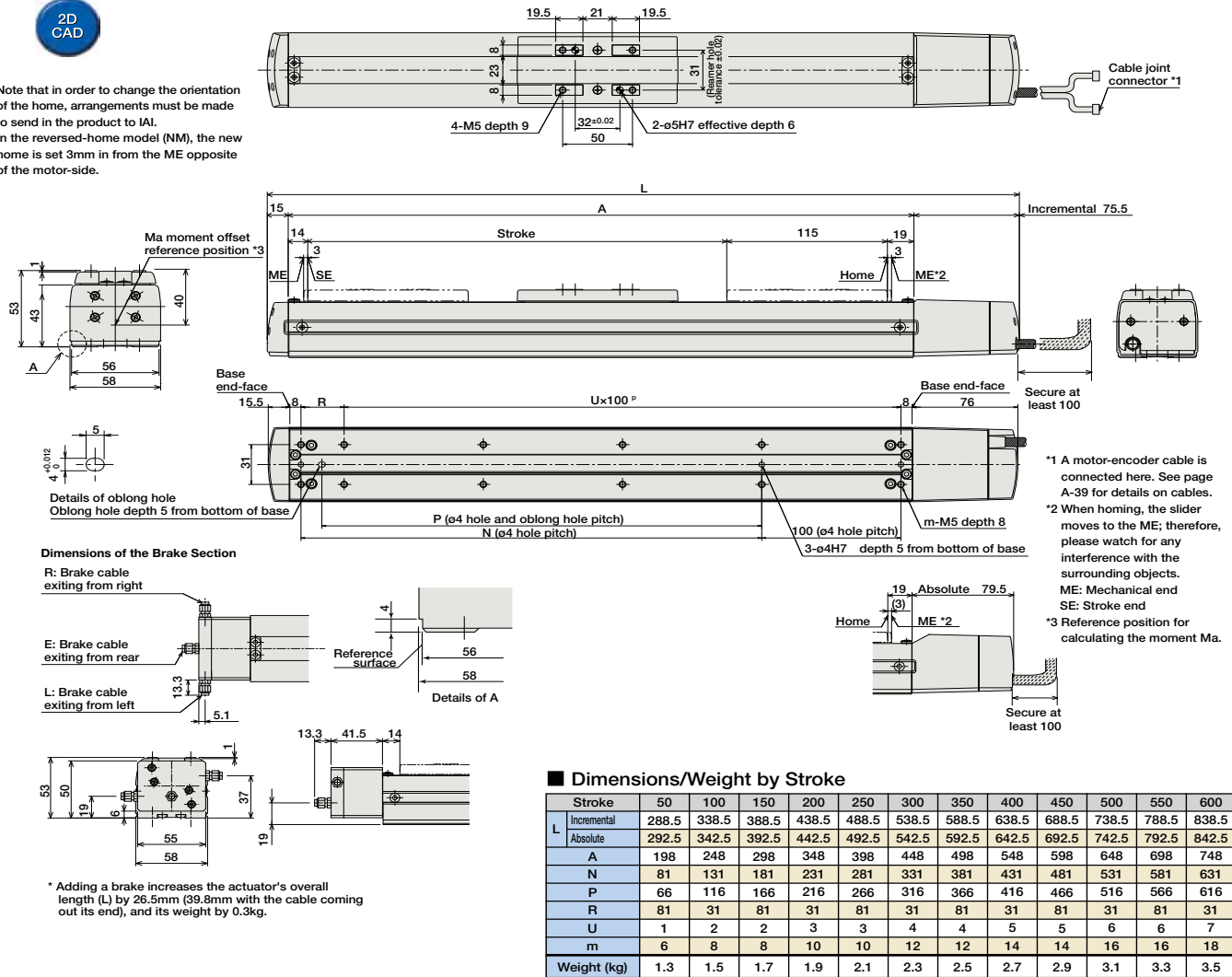
CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

2D
CAD

- * Note that in order to change the orientation of the home, arrangements must be made to send in the product to IAI.
- * In the reversed-home model (NM), the new home is set 3mm in from the ME opposite of the motor-side.

For Special Orders

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③ 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-30I②-NP-2-1	Easy-to-use controller, even for beginners	3 points	AC100V	2.4A rated	—	→ P477	
Splash-Proof Solenoid Valve Type		ASEP-C-30I②-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	
		ASEP-CW-30I②-NP-2-0					—		
Positioner Type		ACON-C-30I②-NP-2-0	Positioning is possible for up to 512 points	512 points	DC24V	(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.2A max.	—		
Safety-Compliant Positioner Type		ACON-CG-30I②-NP-2-0					—		
Pulse Train Input Type (Differential Line Driver)		ACON-PL-30I②-NP-2-0	Pulse train input type with differential line driver support	(—)			—		→ P535
Pulse Train Input Type (Open Collector)		ACON-PO-30I②-NP-2-0	Pulse train input type with open collector support				—		
Serial Communication Type		ACON-SE-30I②-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-1-30①②-NP-2-0	Programmed operation is possible Can operate up to 2 axes	1500 points			—		→ P567

* This is for the single-axis ASEL.

* ① is a placeholder for the encoder type (I: incremental, A: absolute).

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