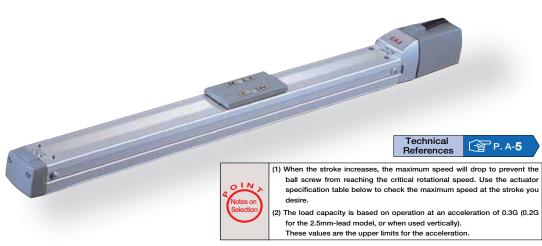


Power-saving



Actuator Specifications ■ Lead and Load Capacity Stroke and Maximum Speed $50\sim300$ (50mm increment Lead (mm) Max. Load Capacity Output (W) Thrust (N RCA-SS4D-I-20-10-10-20-30-4 10 10 50 ~ 300 (50mm RCA-SS4D-I-20-5-1-2-3-4 20 5 6 2.5 330 39.2 5 RCA-SS4D-I-20-2.5-1 - 2 - 3 - 4 4.5 78.4 (Unit: mm/s) Legend ①Stroke ②Compatible controller ③Cable length ④Options

Stroke List

Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-
250	-
300	-

③ Cable List

Туре	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)	_	
	R01 (1m) ~ R03 (3m)	_	
	R04 (4m) ~ R05 (5m)	_	
Robot Cable	R06 (6m) ~ R10 (10m)	_	
	R11 (11m) ~ R15 (15m)	_	
	R16 (16m) ~ R20 (20m)		

^{*} See page A-39 for cables for maintenance.

Cleanroom
Typ

Splash-Proo

Controller

PMEC
/AMEC

PSEP
/ASEP
ROBO
NET

ERC2

PCON

ACON

SCON

PSEL

ASEL

XSEL

Standard
Controllers
Integrated
Mini
Standard
Controllers
Integrated
Mini
Standard
Table/Arm
//Flat Type
Mini
Standard
Coripper
Rotary Typ
Unear Serv
Typ

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	_

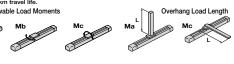
Actuator Specifications

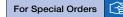
Item	Description			
Drive System	Ball screw Ø8mm C10 grade			
Positioning Repeatability	±0.02mm			
Lost Motion	0.1mm or less			
Base	Material: Special alloy steel			
Allowable Static Moment	Ma: 6.9 N·m Mb: 9.9 N·m Mc: 17.0 N·m			
Allowable Dynamic Moment (*)	Ma: 2.7 N·m Mb: 3.9 N·m Mc: 6.8 N·m			
Overhang Load Length	Ma direction: 120mm or less Mb·Mc direction: 120mm 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 Mome



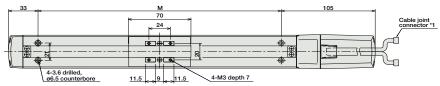


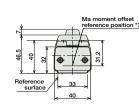


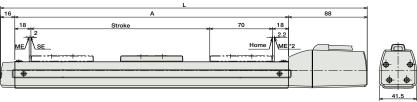


P. A-9

- 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 2.2mm in from the ME opposite of the motor-side.







2-M3 depth 5





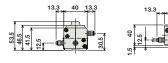
⊕

Dimensions of the Brake Section R: Brake cable exiting from right E: Brake cable exiting from rea

- A 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

 Reference position for calculating the moment Ma.



Adding a brake increases the actuator's overall length (L) by 32mm (45.3mm with the cable coming out its end), and its weight by 0.2kg.

■ Dimensions/Weight by Stroke

Stroke	50	100	150	200	250	300
L	260	310	360	410	460	510
Α	156	206	256	306	356	406
M	122	172	222	272	322	372
Weight (kg)	1.1	1.2	1.3	1.4	1.5	1.6

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-20I2-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P47	
	1	ASEP-C-20(2)-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.	3 points		(Standard) 1.3A rated		-
Splash-Proof Solenoid Valve Type	ij.	ASEP-CW-20I2)-NP-2-0					-	→ P40
Positioner Type	Í	ACON-C-201②-NP-2-0		512 points	512 points		-	
Safety-Compliant Positioner Type		ACON-CG-20I2-NP-2-0	r ositioning is possible for up to 312 points				-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20I@-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	4.4A max. (Power-saving)	-	→ P53
Pulse Train Input Type (Open Collector)		ACON-PO-2012)-NP-2-0	Pulse train input type with open collector support	(-)	(-)	1.3A rated 2.5A max.	-	
Serial Communication Type		ACON-SE-2012-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-20②	Dedicated to field network	768 points			-	→ P50
Program Control Type		ASEL-C-1-20(2)-NP-2-0	Programmed operation is possible Can operate up to 2 axes	1500 points				-

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

IAI

RCA-SS4D **88**



Standard
Controllers Integrated
Rod
Type
Mini
Standard
Controllers Integrated
Table/Arm
(Flat Type
Mini

Splash-Proof
Controllers

PMEC
/AMEC
/AMEC
ROBO
NET

ERC2

PCON
ACON
SCON

PSEL
ASEL