RCA2-SA3R ROBO Cylinder Slider Type 32mm Width Servo Motor Coupled

■ Configuration: RCA2 — SA3R — I — 10 — ☐ — ☐ — ☐ — ☐ — ☐ — ☐

Series	Type	Encoder	Motor	Lead	Stroke	Compatible Controllers	Cable Length	Option
		I: Incremental * Simple absolute encoder models are labeled as "I".	10: 10W Servo motor	6: 6mm 4: 4mm 2: 2mm	50: 50mm \ 300:300mm (50mm pitch increments)	A1: ACON RACON ASEL A3: AMEC ASEP	N : None P : 1m S : 3m M : 5m X☐☐: Custom Length	See Options below * Be sure to specify which side the motor is to be mounted (ML/MR).

* 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

(1) The load capacity is based on operation at an acceleration of 0.3G (2G for the 2mm-lead model, or when used vertically).
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)	Max. Load Capacity Vertical (kg)	Rated Thrust (N)	Stroke (mm)
RCA2-SA3R-I-10-6-①-②-③-④	10	6	1	0.5	28	50～300 (50mm increments)
RCA2-SA3R-I-10-4-①-②-③-④		4	2	1	43	
RCA2-SA3R-I-10-2-①-②-③-④		2	3	1.5	85	

■ Stroke and Maximum Speed

Lead \ Stroke	50 ～ 300 (50mm increments)
6	300
4	200
2	100

(Unit: mm/s)

Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

① Stroke List

Stroke (mm)	Standard Price	
	With cover (standard)	No cover (Option)
50	–	–
100	–	–
150	–	–
200	–	–
250	–	–
300	–	–

③ Cable List

Type	Cable Symbol	Standard Price
Standard (Robot Cables)	P (1m)	—
	S (3m)	—
	M (5m)	—
Special Lengths	X06 (6m) ～ X10 (10m)	—
	X11 (11m) ～ X15 (15m)	—
	X16 (16m) ～ X20 (20m)	—

* The standard cable is the motor-encoder integrated robot cable.
* See page A-39 for cables for maintenance.

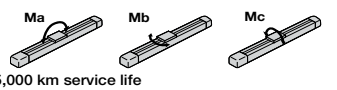
④ Option List

Name	Option Code	See Page	Standard Price
Brake-Equipped	B	→ A-25	—
Cable Exit Direction (Top)	CJT	→ A-25	—
Cable Exit Direction (Outside)	CJO	→ A-25	—
Cable Exit Direction (Bottom)	CJB	→ A-25	—
Power-saving	LA	→ A-32	—
Left-Mounted Motor (Standard)	ML	→ A-33	—
Right-Mounted Motor	MR	→ A-33	—
No Cover	NCO	→ A-33	—
Reversed-home	NM	→ A-33	—

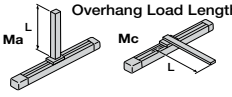
Actuator Specifications

Item	Description
Drive System	Ball screw Ø6mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum (special alumite treated)
Allowable Static Load Moment	Ma: 5.0N·m Mb: 7.1N·m Mc: 7.9N·m
Allowable Dynamic Load Moment	Ma: 1.96N·m Mb: 2.84N·m Mc: 3.14N·m
Overhang Load Length	100mm or less
Ambient Operating Temp./Humidity	0～40°C, 85% RH or less (non-condensing)

Directions of Allowable Load Moments



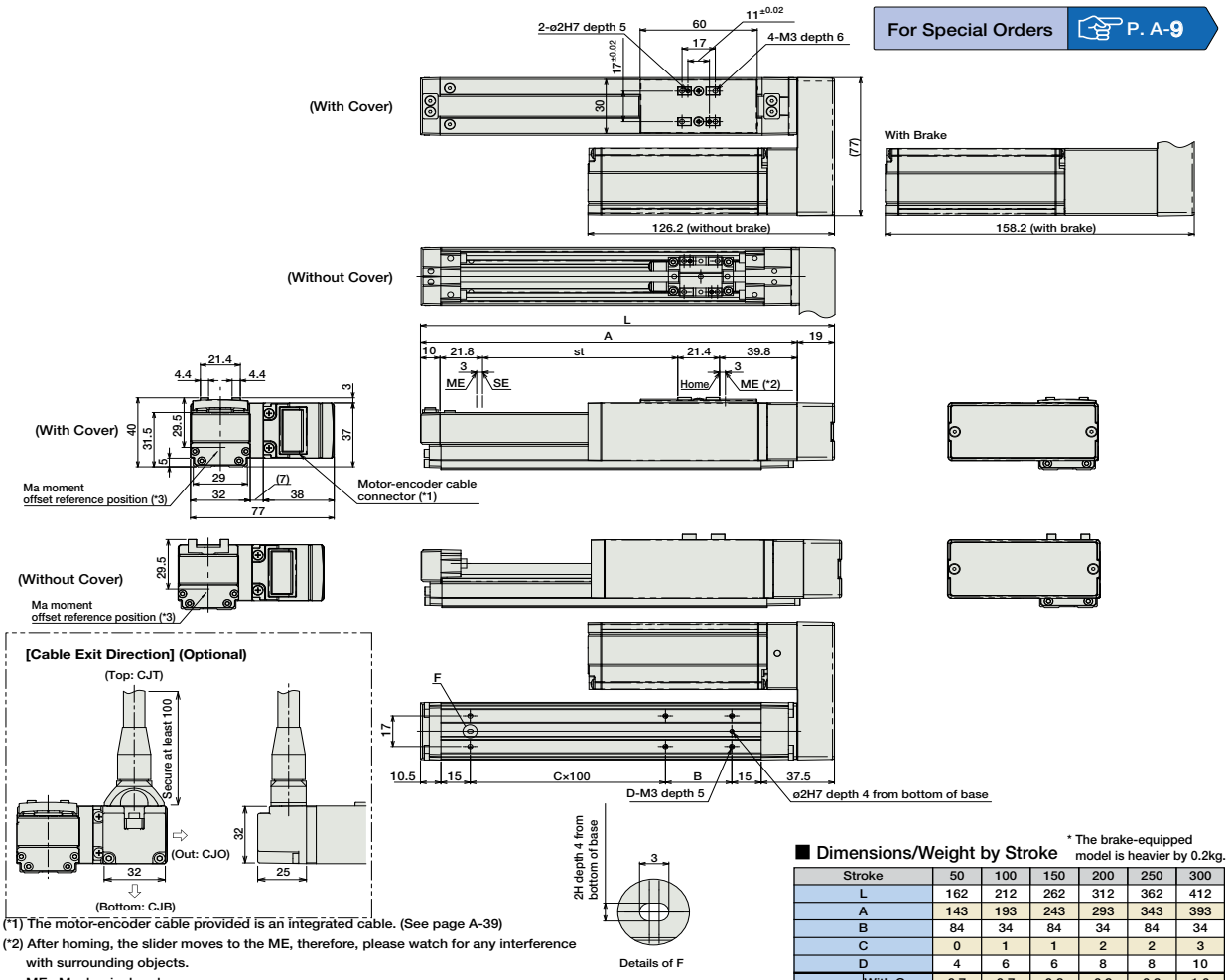
Overhang Load Length



5,000 km service life

Dimensions

For Special Orders P. A-9



(*1) The motor-encoder cable provided is an integrated cable. (See page A-39)
(*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.
ME : Mechanical end
SE : Stroke end
(*3) Reference position for calculating the moment Ma

Dimensions/Weight by Stroke

* The brake-equipped model is heavier by 0.2kg.

Stroke		50	100	150	200	250	300
L		162	212	262	312	362	412
A		143	193	243	293	343	393
B		84	34	84	34	84	34
C		0	1	1	2	2	3
D		4	6	6	8	8	10
Weight (kg)	With Cover	0.7	0.7	0.8	0.9	0.9	1.0
	No Cover	0.6	0.7	0.7	0.8	0.8	0.9

② Compatible Controllers

The RCA2 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-10I①-NP-2-1	Easy-to-use controller, even for beginners	3 points	AC100V	2.4A rated	—	→ P477
		ASEP-C-10I①-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.		DC24V	(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	—	→ P487
Splash-Proof Solenoid Valve Type		ASEP-CW-10I①-NP-2-0					—	
Positioner Type		ACON-C-10I①-NP-2-0	Positioning is possible for up to 512 points	512 points			—	→ P535
Safety-Compliant Positioner Type		ACON-CG-10I①-NP-2-0					—	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I①-NP-2-0	Pulse train input type with differential line driver support	(–)			—	
Pulse Train Input Type (Open Collector)		ACON-PO-10I①-NP-2-0	Pulse train input type with open collector support				—	
Serial Communication Type		ACON-SE-10I①-N-0-0	Dedicated to serial communication	64 points			—	
Field Network Type		RACON-10①	Dedicated to field network	768 points			—	→ P503
Program Control Type		ASEL-C-1-10I①-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 replaced with the code "LA" when support for power-saving is specified.