IVIINI

Controllers Integrated

> Roc Type

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Controllers Integrated

> Table/ Arm/ Flat Type

Mini

Gripper

Linear Servo Type

Cleanroom Type

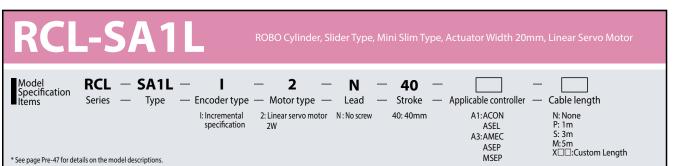
Splash Proo Type

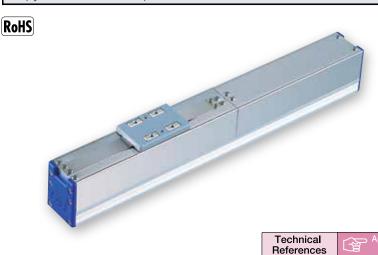
Puls Moto

Servo Moto (24V

Servo Motor (200V

Linear Servo Motor





Relation between payload (horizontal) and acceleration

Maximum	Load Capacity (kg)				
Acceleration (G)	Continuous operation (Duty is 100%)	Duty is 70% or less			
0.1	0.5				
0.3	0.3	0.5			
0.5	0.42				
1	0.25	0.32			
1.5	0.18	0.24			
2	0.15	0.2			

(1) The payload is determined by the acceleration and duty. Verify the payload in the payload (horizontal) and acceleration chart at right.

The duty is $\frac{\text{Operating time}}{\text{Operating time} + \text{stop time}} \times 100 \text{ per cycle.}$

- (2) The mounting position is horizontal-only. Please take care because the slider will drop down with power OFF when operating vertically.
- (3) Simple absolute unit cannot be used with the RCL series.

■ Stroke and Maximum Speed

■ Lead and Payload								
Model number	Motor output(W)	Maximum Horizontal (kg)	. ,	Rated thrust (N)	Instantaneous maximum thrust (N)	Maximum acceleration (G)	Positioning repeatability (mm)	Stroke (mm)
RCL-SA1L-I-2-40-N-①-②	2	See chart above	_	2	10	2	±0.1	40 (Fixed)

Stroke Lead	40 (mm)
(no screw)	420

Code explanation ① Applicable Controller ② Cable length

Actuator Specifications

(Unit: mm/s)

Stroke	
Stroke (mm)	Standard price
40	_

②Cable Length						
Type	Cable symbol	Standard price				
Standard	P (1m)	_				
(Robot Cables)	S (3m)	_				
	M (5m)	_				
Special length	X06 (6m) ~ X10 (10m)	_				
	X11 (11m) ~ X15 (15m)	_				
	X16 (16m) ~ X20 (20m)	_				

- *The standard cable for the RCL is the robot cable.
- * See page A-59 for cables for maintenance.

Actuator Specifications

Item	Description		
Drive System	Linear servo motor		
Encoder resolution	0.042mm		
Base	Material: Aluminum, white alumite treated		
Allowable dynamic moment (*)	Ma: 0.13 N·m, Mb: 0.12 N·m, Mc: 0.21 N·m		
Overhung load length	50mm or less		
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		

(*) Based on 5,000km of traveling life

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

For Special Orders

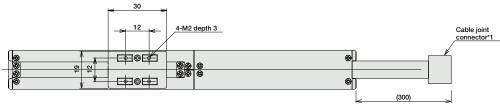


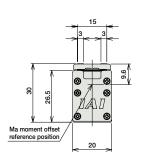


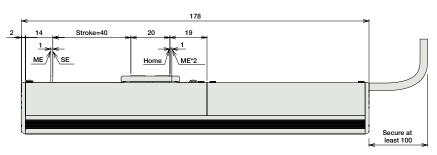


(*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.
(*2) During home return, the slider travels until the mechanical end, so be careful to avoid interference from peripheral objects.

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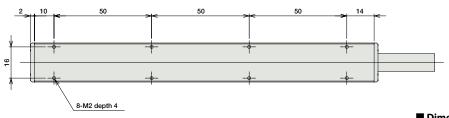








ME : Mechanical end SE : Stroke end



■ Dimensions and Weight by Stroke

Stroke	40
Weight (kg)	0.28

①Applicable Controllers

RCL series actuators can be operated with the controllers indicated below. Select the type according to your intended application

RCL series actuators can be operated with the controllers indicated below. Select the type according to your intended application.									
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page	
Solenoid Valve Type	Batte	AMEC-C-2I-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P537	
Soleriola valve type	1	ASEP-C-2I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		-	→ P547		
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563	
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				, 1, 203	
Positioner type		ACON-C-2I-①-2-0	Positioning is possible for up to 512	512 points			1		
Safety-Compliant Positioner Type			ACON-CG-2I-①-2-0	points	312 points	DC24V	0.8A rated 4.6A max.	_	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-2I-①-2-0	Pulse train input type with differential line driver support	(—)			1	→ P631	
Pulse Train Input Type (Open Collector)		ACON-PO-2I-①-2-0	Pulse train input type with open collector support				1		
Serial Communication Type		ACON-SE-2I-N-0-0	Dedicated Serial Communication	64 points					
Program Control Type		ASEL-CS-1-2I-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675	

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*This is for the single-axis ASEL. * ① indicates I/O type (NP/PN). * ① indicates number of axes (1 to 8). * ⑩ indicates field network specification symbol.

RCL-SA1L **420**

Mini

Standar

Controllers Integrated

> od ype

Mini

Standard

Controllers Integrated

Table/ Arm/ Flat Type

Mini

Standard

Gripper/ Rotary Type

Linear Servo Type

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