

#### ■ Relation between payload (horizontal) and acceleration

Maximum	Load Capacity (kg)					
Acceleration (G)	Continuous operation (Duty is 100%)	Duty is 70% or less				
0.1	1					
0.3	1	1				
0.5	0.85					
1	0.5	0.6				
1.5	0.36	0.45				
2	0.3	0.36				

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

Operating time - x 100 per cycle. Operating time + stop time

- (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									■ Strok
Model number	Motor output(W)	Maximum Horizontal (kg)	. ,	Rated thrust (N)	Instantaneous maximum thrust (N)	Maximum acceleration (G)	Positioning repeatability (mm)	Stroke (mm)	Str
RCL-SA2L-I-5-N-48-① - ②	5	See chart above	_	4	18	2	±0.1	48 (Fixed)	(no scre

Stroke Lead	48 (mm)
(no screw)	460

Code explanation ① Applicable Controller ② Cable length

**Actuator Specifications** 

(Unit: mm/s)

Stroke	
Stroke (mm)	Standard price
48	_

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

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

#### Actuator Specifications

ltem	Description
Drive System	Linear servo motor
Encoder resolution	0.042mm
Base	Material: Aluminum, white alumite treated
Allowable dynamic moment (*)	Ma: 0.2 N·m, Mb: 0.17 N·m, Mc: 0.25 N·m
Overhung load length	60mm or less
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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

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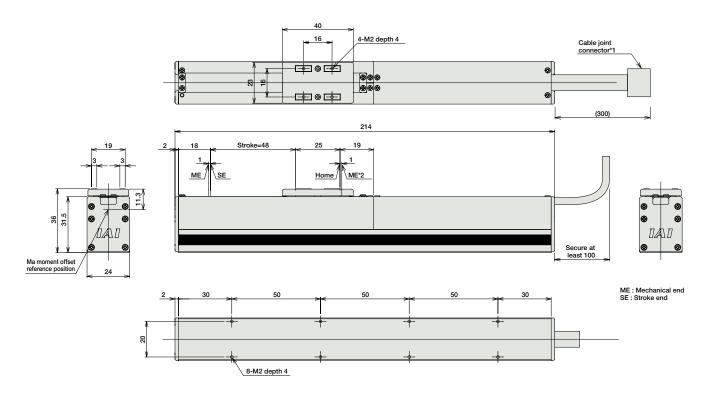
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- (\*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.
   (\*2) During home return, the slider travels until the mechanical end, so be careful to avoid interference from peripheral objects.



# ■ Dimensions and Weight by Stroke

Stroke	48
Weight (kg)	0.45

① Applicable Controllers  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		AMEC-C-5I-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solenolu valve Type	1	ASEP-C-5I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		, 1.0A rated 6.4A max.	_	→ P54
Solenoid valve multi-axis type PIO specification		MSEP-C-(  )-~-( )-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected		DC24V		_	→ P563 → P631
Solenoid valve multi-axis type Network specification		MSEP-C-(  )-~-(  )-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				
Positioner type	E I	ACON-C-5I-①-2-0	Positioning is possible for up to 512	512 points			_	
Safety-Compliant Positioner Type		ACON-CG-5I-①-2-0	points				_	
Pulse Train Input Type (Differential Line Driver)	C.	ACON-PL-5I-①-2-0	Pulse train input type with differential line driver support	- (—)			_	
Pulse Train Input Type (Open Collector)	ė	ACON-PO-5I-①-2-0	Pulse train input type with open collector support				_	
Serial Communication Type		ACON-SE-5I-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-5I-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P67

\*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-SA2L **422** IAI