

## ■ Relation between payload (horizontal) and acceleration

Maximum Acceleration	Load Capacity (kg)			
(G)	Continuous operation (Duty is 100%)			
0.1	1.6			
0.3	1.0			
0.5	1.0			
1	0.5			
1.5	0.35			
2	0.25			

(1) Please take care because this type has magnetic flux leakage. (If magnetism is a problem, use SA1L/SA2L/SA3L)

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

Operating time The duty is Operating time + stop time x 100 per cycle.

- (3) The mounting position is horizontal-only. Please take care because the slider will drop down with power OFF when operating vertically.(4) Simple absolute unit cannot be used with the RCL series.

## Stroke and Maximum Speed

## Motor Maximum payload output(W) Horizontal (kg) Vertical (kg) Maximum payload Rated thrust (N) Stroke 36~216 (Every 36mm) nstantaneous Maximum acceleration Model number Lead (mm) 36~216 See chart RCL-SA5L-I-5-N-①-②-③-④ (no screw) 5 18 2 $\pm 0.1$ 1400 (Every above 36mm)

Code explanation ① Stroke ② Applicable controller ③ Cable length ④ Options

(Unit: mm/s)

①3tioke	
①Stroke (mm)	Standard price
36	_
72	_
108	_
144	_
180	_
216	_

<b>4</b> Options			
Title	Option code	See page	Standard Price
Non-motor end specification	NM	→ A-52	_

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

\*The standard cable for the RCL is the robot cable.

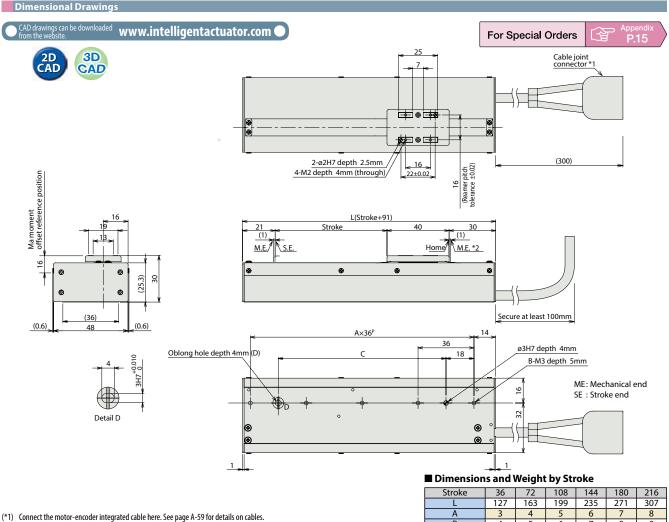
\* See page A-59 for cables for maintenance.

## Actuator Specifications

ltem	Description		
Drive System	Linear servo motor		
Encoder resolution	0.042mm		
Base	Material: Aluminum, white alumite treated		
Allowable dynamic moment (*)	Ma: 0.49 N·m, Mb: 0.41 N·m, Mc: 0.72 N·m		
Overhung load length	Ma direction: 80mm or less Mb and Mc directions: 100mm or less		
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		

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

Actuator Specifications ■ Lead and Payload



RCL series actuators can be	
Name	Exter vie

(\*2) During home return, the slider travels until the mechanical end, so be careful to avoid interference from peripheral objects.

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	EF!	AMEC-C-5I-①-2-1	Easy-to-use controller, even for beginners		AC100V points	2.4A rated	_	→ P537
Solemoid valve Type	1	ASEP-C-5I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547
Solenoid valve multi-axis type PIO specification	The same of	MSEP-C-(  )-~-( )-2-0	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			_	7 7503
Positioner type		ACON-C-5I-①-2-0	Positioning is possible for up to 512	512 points	DC24V	1.0A rated 6.4A max.	_	
Safety-Compliant Positioner Type		ACON-CG-5I-①-2-0	points				_	→ P631
Pulse Train Input Type (Differential Line Driver)		ACON-PL-5I-①-2-0	Pulse train input type with differential line driver support	(—)			_	
Pulse Train Input Type (Open Collector)		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			_	→ P675

\*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.

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216

0.62

252

0.68

72

0.35

Weight (kg)

108

0.42

144

0.48

180

0.55