

■ Relation between payload (horizontal) and acceleration

acceleration					
Maximum Acceleration	Load Capacity (kg)				
(G)	Continuous operation (Duty is 100%)				
0.1	0.8				
0.3	0.6				
0.5	0.5				
1	0.25				
1.5	0.18				
2	0.14				

(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

■ Lead and Payload Motor Maximum payload output(W) Horizontal (kg) Vertical (kg) Maximum payload Rated thrust (N) nstantaneous Model number (mm) 30~120 See chart RCL-SM4L-I-2-N-①-②-③ 2 2.5 10 2 ±0.1 (Every above 30mm)

Stroke Lead	30~120 (Every 30mm)
(no screw)	1200

Code explanation ① Stroke ② Applicable controller ③ Cable length

(Unit: mm/s)

UStroke	
①Stroke (mm)	Standard price
30	_
60	_
90	_
120	_

③Cable Length						
Туре	ype Cable symbol Sta					
Standard (Robot Cables)	P (1m)	_				
	S (3m)	_				
	M (5m)	_				
	X06 (6m) ~ X10 (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: 0.2 N·m, Mb: 0.17 N·m, Mc: 0.25 N·m			
Overhung load length	Ma direction: 60mm or less Mb and Mc directions: 80mm 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



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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.

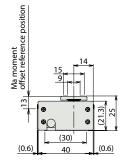
For Special Orders

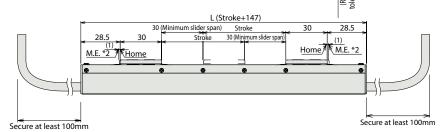


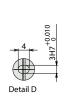
Dimensional Drawings

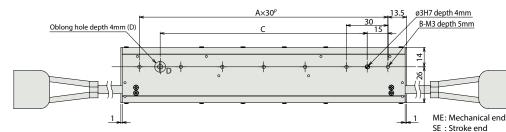


Cable joint connector *1 **6** ⊕ ⊕ (300) (300) 2-ø2H7 depth 2mm 4-M2 depth 3mm (through)









■ Dimensions and Weight by Stroke

= Dimensions und Weight by Stroke								
Stroke	30	60	90	120				
L	177	207	237	267				
Α	5	6	7	8				
В	6	7	8	9				
С	120	150	180	210				
Weight (kg)	0.37	0.4	0.44	0.48				

One controller is required for each slider. (Or, one 2-axis controller is required.)

(2)App	licab	le (Con	trol	lers			

Note:

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	Batter	AMEC-C-2I-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537	
Solenoid valve type	3	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		DC24V			→ 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					
Positioner type		ACON-C-2I-①-2-0	Positioning is possible for up to 512	512 points			_		
Safety-Compliant Positioner Type		ACON-CG-2I-①-2-0	points			0.8A rated 4.6A max.	_	→ P631	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-2I-①-2-0	Pulse train input type with differential line driver support	(—)			_		
Pulse Train Input Type (Open Collector)		ACON-PO-2I-①-2-0	Pulse train input type with open collector support				_		
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	

IAI

*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.