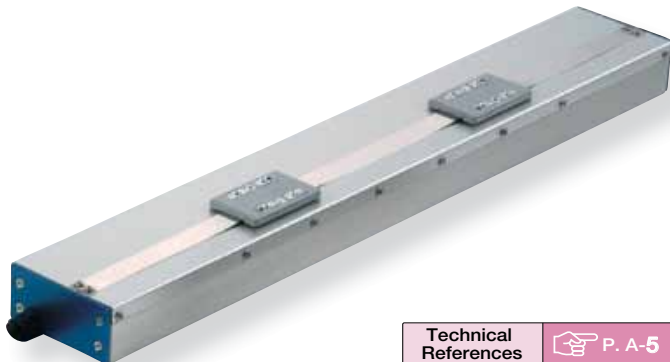


RCL-SM6L

ROBO Cylinder Slider Type Mini Multi-Slider Type 58mm Width Linear Servo Motor

■ Configuration: **RCL** — **SM6L** — **I** — **10** — **N** — — —
 Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length
 I: Incremental 10: 10W linear servo motor N: No screw 48: 48mm \ 192:192mm (48mm pitch increments)
 A1: ACON RACON ASEL A3: AMEC ASEP N: None P: 1m S: 3m M: 5m X : Custom

* See page Pre-35 for an explanation of the naming convention.



Technical References P. A-5

- POINT** Notes on Selection
- Please note that this type has magnetic flux leakage. (If magnetism is a problem, please use SA1L, SA2L, or SA3L)
 - The load capacity is determined by the acceleration and the duty. Check the load capacity on the Load Capacity (Horizontal) vs. Acceleration graph on the right. The duty is $\frac{\text{Operating time}}{\text{Operating time} + \text{stationary time}} \times 100$ per cycle.
 - The mounting orientation is horizontal only. When operated vertically, please use caution, as the slider will fall when the power is turned OFF.
 - Please note that an absolute unit cannot be used.

Load Capacity (Horizontal) vs. Acceleration

Max. Acceleration (G)	Load Capacity (kg)
	Continuous Operation (100% duty)
0.1	3.2
0.3	
0.5	2
1	1
1.5	0.65
2	0.5

Actuator Specifications

Lead and Load Capacity

Model	Motor Output (W)	Max. Load Capacity		Rated Thrust (N)	Max. Momentary Thrust (N)	Max. Acceleration (G)	Positioning Repeatability (mm)	Stroke (mm)
		Horizontal (kg)	Vertical (kg)					
RCL-SM6L-I-10-N-①-②-③	10	See table above	-	10	30	2	±0.1	48~192 (48mm increments)

Legend: ① Stroke ② Compatible controller ③ Cable length

Stroke and Maximum Speed

Lead	Stroke	48 ~ 192 (48mm increments)
	(No lead screw)	
		1600

(Unit: mm/s)

① Stroke List

Stroke (mm)	Standard Price
48	-
96	-
144	-
192	-

③ Cable List

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

* The RCL comes standard with a robot cable.

* See page A-39 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 (Note)	Ma: 0.87N-m Mb: 0.75N-m Mc: 1.22N-m
Overhang Load Length	Ma direction: 80mm or less Mb-Mc direction: 120mm or less
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

(Note) Based on a 5,000km service life.

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RCL-SM6L

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm /Flat Type
- Mini
- Standard
- Gripper/ Rotary Type
- Linear Servo Type
- Cleanroom Proof
- Splash Proof
- Controllers
- PMEC /AMEC
- PSEP /ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

