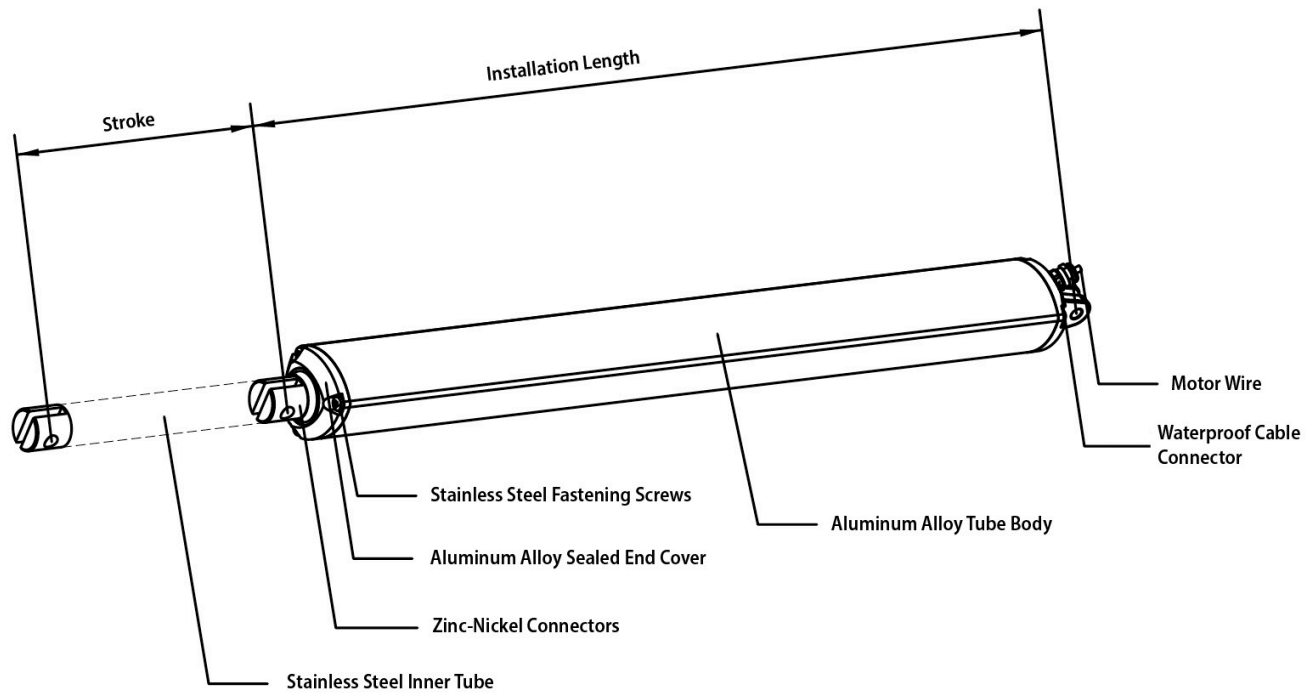


ML75 Industrial Linear Actuator

2026 Catalog




• Glossary of Terms



Stroke	How far the rod extends outwards from the body. The difference between fully extended length and fully retracted length. (Customizable)
Installation Length	The length of unit when fully closed. (Customizable)
Front Mounting End	Optional.
Rear Mounting End	Optional.
Dynamic Force	The max. force the actuator can carry while it is moving.
Self-locking	The max. force the actuator can hold when it is stopped.
Weather Protection	IPXX. The first digit: Dust Protection. The Second Digit: Liquids Protection. Please refer to [Table 1.]
Duty Cycle	Continuous working time "a", rest time "b". Duty Cycle is $a/(a+b) \times 100\%$. Please refer to [Table 1.]
Speed	Includes free-load speed and full load speed.
Manual Override	Can be used to extend or retract the actuator when there is no power in an emergency situation. Check [Table 1] for availability.

• General Specifications

Color	<input checked="" type="checkbox"/> Silver	<input checked="" type="checkbox"/> Black	<input type="checkbox"/> Custom						
Lead Screw	<input checked="" type="checkbox"/> Acme Screw	<input checked="" type="checkbox"/> Ball Screw							
Operation Mode	<input checked="" type="checkbox"/> Electrical	<input type="checkbox"/> Electrical + Hydraulic	<input type="checkbox"/> Electrical + Manual						
Application	<input checked="" type="checkbox"/> Industrial	<input type="checkbox"/> Furniture	<input type="checkbox"/> Medical						
Operational Temp.	<input type="checkbox"/> -5°C to 40°C	<input checked="" type="checkbox"/> -15°C to 60°C	<input checked="" type="checkbox"/> -40°C to 65°C						
Operating Noise	<input type="checkbox"/> ≤45dB	<input type="checkbox"/> ≤50dB	<input checked="" type="checkbox"/> ≤65dB						
Stroke Range	<input checked="" type="checkbox"/> 25 to 600mm	<input checked="" type="checkbox"/> 600 to 1,200mm							
Dynamic Load	<input type="checkbox"/> ≤1,200N	<input type="checkbox"/> ≤2,500N	<input checked="" type="checkbox"/> ≤5,000N				<input type="checkbox"/> ≤7,000N	<input type="checkbox"/> ≤17,000N	<input type="checkbox"/> ≤20,000N
Duty Cycle	<input type="checkbox"/> 10%	<input checked="" type="checkbox"/> 20%	<input type="checkbox"/> 25%				<input checked="" type="checkbox"/> 35%	<input type="checkbox"/> 50%	<input type="checkbox"/> 100%
Motor Type	<input checked="" type="checkbox"/> Brushed DC	<input type="checkbox"/> Stepper Motor	<input type="checkbox"/> Brushless				<input type="checkbox"/> Servo Motor		
Weather Protection	<input type="checkbox"/> IP20	<input type="checkbox"/> IP43	<input type="checkbox"/> IP54	<input type="checkbox"/> IP65	<input type="checkbox"/> IP66	<input checked="" type="checkbox"/> IP67			
Anti-Corrosion Grade	<input checked="" type="checkbox"/> NSS 480h								
Input Voltage	<input checked="" type="checkbox"/> 12VDC	<input checked="" type="checkbox"/> 24VDC	<input type="checkbox"/> 36VDC	<input type="checkbox"/> 48VDC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 220VAC			

[Table 1]

 Options for MLA-65 Available Other Models

• Technical Parameters

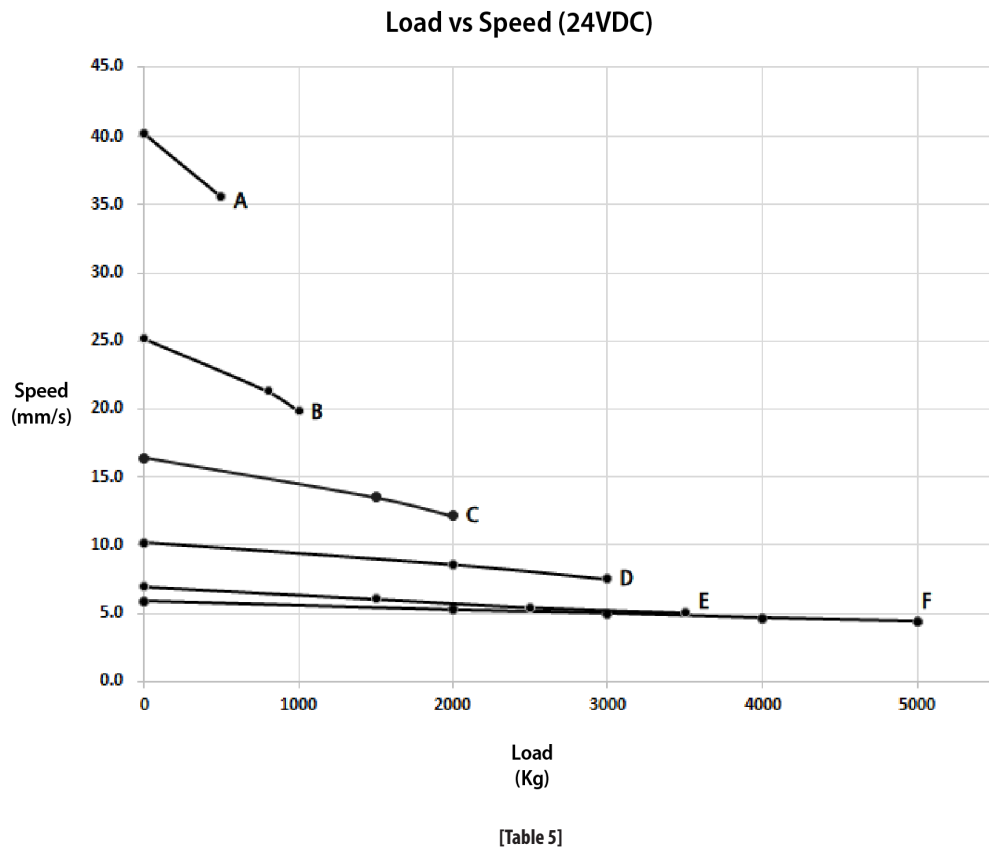
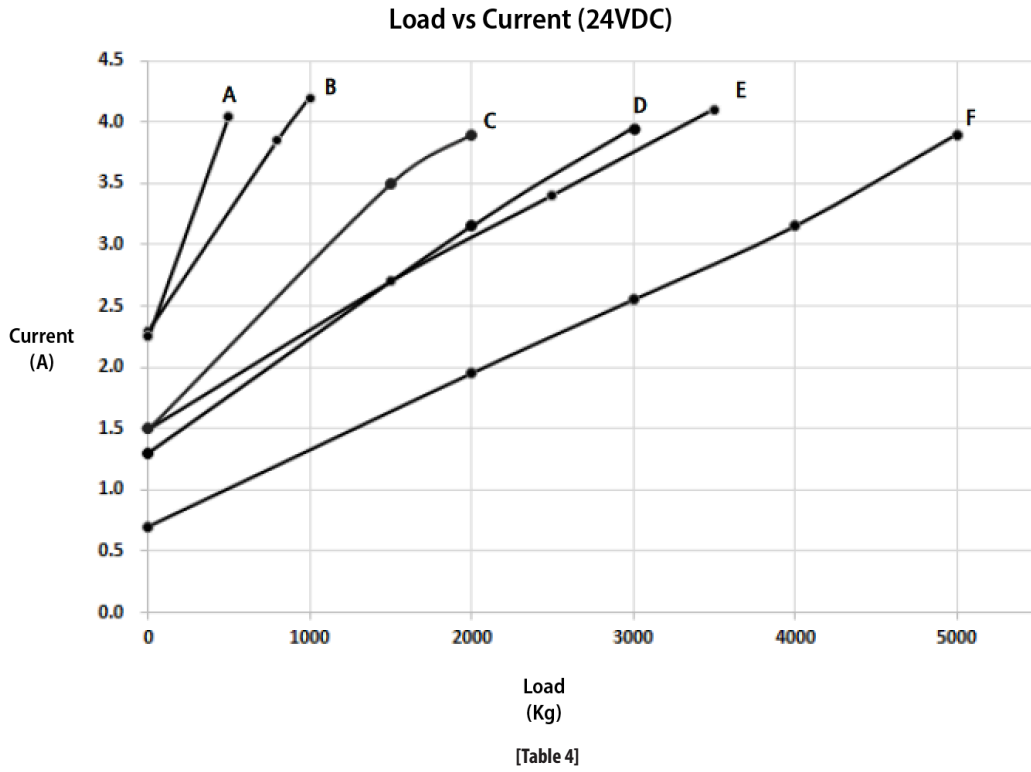
Code	Lead Screw	Max. Dynamic Load	Max. Self-Locking Load	Duty Cycle	Pitch	Speed +/-10% (mm/sec) (*See Note 1)		Max. Stroke At Full Capacity (*See Note 2)
		(N)	(N)	(%)	(mm)	Free Load	Full Load	(mm)
A	ACME Screw	500	800	18	12	40	35.5	1,200
B		1,000	1,200	18	7.5	25	19.5	1,200
C		2,000	2,500	47	12	16.4	12	1,200
D		3,000	3,500	47	7.5	10.2	7.5	1,200
E		3,500	4,200	47	5	7	5	1,200
F		5,000	6,000	47	4	5.7	4.2	600
G	Ball Screw	2,000	2,500	18	5	17	15	1,200
H		5,000	6,000	47	5	7	5.5	600

[Table 2]

*Notes:

1. Measurements are made with actuators in connection with stable power supplies and ambient temperature of 20°C.
2. Many factors affect the "Customizable Maximum Stroke," such as load, speed, and direction of force. Actual application scenarios should be considered. Please contact cs@machmo.com if your required parameters are not listed.

• Performance

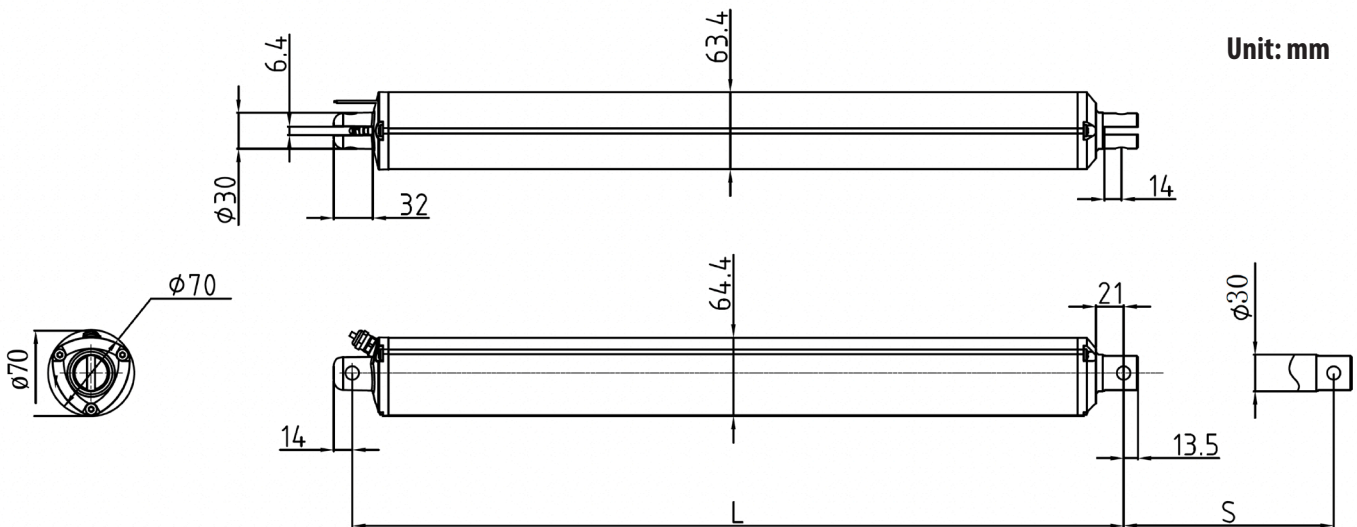


* Notes:

Motor Voltage is available in 12VDC and 24VDC; the above test data is for 24VDC.

When 12VDC is selected, Current is approximately twice listed 24VDC value while Speed remains unchanged.

• Product Dimensions



• Installation Size

A. Basic Installation Length

Code	Installation Length (L) (mm)
A	$\geq \text{Stroke} + 344$
B	$\geq \text{Stroke} + 344$
C	$\geq \text{Stroke} + 344$
D	$\geq \text{Stroke} + 344$
E	$\geq \text{Stroke} + 344$
F	$\geq \text{Stroke} + 315$
G	$\geq \text{Stroke} + 344$
H	$\geq \text{Stroke} + 344$

[Table 6.1]

B. Stroke vs. Installation Length

Stroke (S) (mm)	Installation Length (L) (mm)
30 - 200	+ 0
201 - 599	+ 50
≥ 600	+100

[Table 6.2]

C. Connectors vs. Installation Length

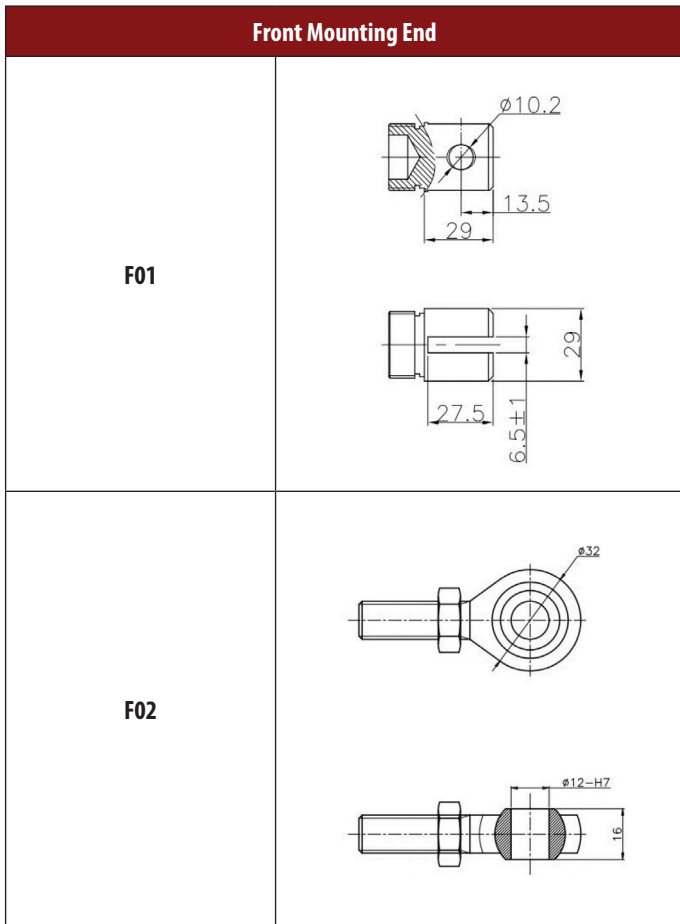
Front/ Rear Connector	Installation Length (L) (mm)
F01	+ 0
F02	+ 40
R01	+ 0
R02	+ 0

[Table 6.3]

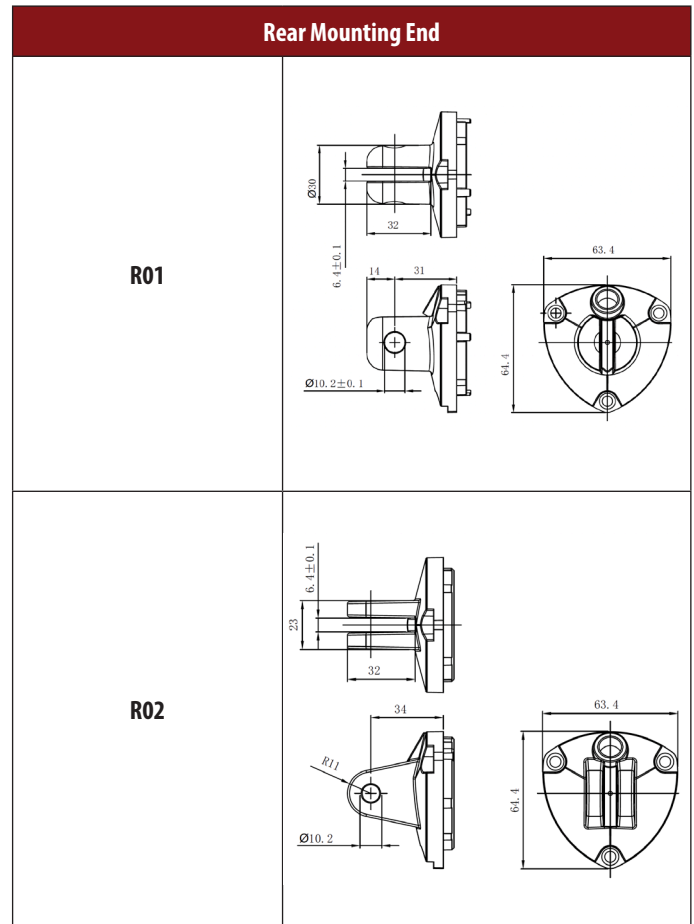
Note: Installation dimensions of the system parts connecting with actuators may affect the above values. Please contact cs@machmo.com if your required parameters are not listed as customization is available.

• **Mounting Ends**

1. Please contact cs@machmo.com if none of the options below meet your requirements.



[Table 7]



[Table 8]

• **Color**

Color	Code
Silver	1
Black	2

• **Cable**

Cable Length (mm)	Code
500	1
Customized	X

Cable Connector	Code
Tin-plated Bare Wire	1
Customized	X

• Product Inquiry Table

Selection	Specification	Available Options	
<input type="text"/>	Transmission Code	See [Table 3]	
<input type="text"/>	Stroke (mm)	Please contact cs@machmo.com if required stroke is out of ranges listed.	
<input type="text"/>	Voltage	12VDC	24VDC
<input type="text"/>	Installation Length (mm)	See [Tables 6.1 - 6.3]	
<input type="text"/>	Front Mounting End	F01	F02
<input type="text"/>	Rear Mounting End	R01	R02
<input type="text"/>	Color	1 = Silver	2 = Black
<input type="text"/>	Cable Length	1 = 500mm	X = Customized
<input type="text"/>	Connector	0 = Tinned Bare Wires	X = Customized
Application	Working Temperature	1 = -15°C ~ 65°C	1 = -40°C ~ 65°C
	Working Frequency	Estimated Work Cycles Per Day	Estimated Working Days per Year
	End Use	Indoor or Outdoor?	