

MLA-19 Industrial Linear Actuator

2026 Catalog



• Product Overview

Designed as a solution for Medical Patient Lifts, the powerful MLA-19 Linear Actuator can push or pull up to 10,000N and allows manual operation in case of emergency. The MLA-10 features an internal electrical limit switch, an IP66 protection rating, noise level of only $\leq 50\text{dB}$ (when ambient noise is $<40\text{dB}$), and a CE certification.


Optional Features:

- Hall Sensor Feedback
- Push Only (Extend) / No Pull (No Retract)
- Manual Operation

Suggested Application:

- Medical Patient Lifts
- Matches Control Box MLA-BK2

• General Specifications

Color	<input checked="" type="checkbox"/> Silver	<input type="checkbox"/> Black	<input type="checkbox"/> Custom			
Lead Screw	<input checked="" type="checkbox"/> Acme Screw	<input type="checkbox"/> Ball Screw				
Operation Mode	<input type="checkbox"/> Electrical	<input checked="" type="checkbox"/> Electrical + Manual				
Application	<input type="checkbox"/> Industrial	<input type="checkbox"/> Furniture	<input checked="" type="checkbox"/> Medical			
Operational Temp.	<input checked="" type="checkbox"/> 5°C to 40°C	<input type="checkbox"/> -10°C to 65°C	<input type="checkbox"/> -30°C to 70°C			
Stroke Range	<input type="checkbox"/> 50 to 300mm	<input checked="" type="checkbox"/> 300 to 350mm				
Dynamic Load	<input type="checkbox"/> $\leq 1,000\text{N}$	<input type="checkbox"/> $\leq 2,000\text{N}$	<input type="checkbox"/> $\leq 3,000\text{N}$	<input type="checkbox"/> $\leq 4,000\text{N}$	<input type="checkbox"/> $\leq 7,000\text{N}$	<input checked="" type="checkbox"/> $\leq 10,000\text{N}$
Duty Cycle	<input checked="" type="checkbox"/> 10%*	<input type="checkbox"/> 20%	<input type="checkbox"/> 25%	<input type="checkbox"/> $\leq 50\%$	<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		
Overload Protection	<input type="checkbox"/> None	<input type="checkbox"/> Clutch	<input checked="" type="checkbox"/> Electronic	<input type="checkbox"/> Thermistor		
Weather Protection	<input type="checkbox"/> IP20	<input type="checkbox"/> IP43	<input type="checkbox"/> IP54	<input type="checkbox"/> IP65	<input checked="" type="checkbox"/> IP66	
Position Feedback	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Endstop Signal	<input checked="" type="checkbox"/> Hall Sensor	<input type="checkbox"/> Potentiometer	<input type="checkbox"/> Encoder	<input type="checkbox"/> Reed Switches
Input Voltage	<input type="checkbox"/> 12VDC	<input checked="" type="checkbox"/> 24VDC	<input type="checkbox"/> 36VDC	<input type="checkbox"/> 48VDC	<input type="checkbox"/> 110VAC	<input type="checkbox"/> 220VAC
Certification	CE Certification					

*10%, Max. 2 min. continuous work, 18 minutes off.

[Table 1]

Options for MLA-19 Available Other Models

• Technical Parameters

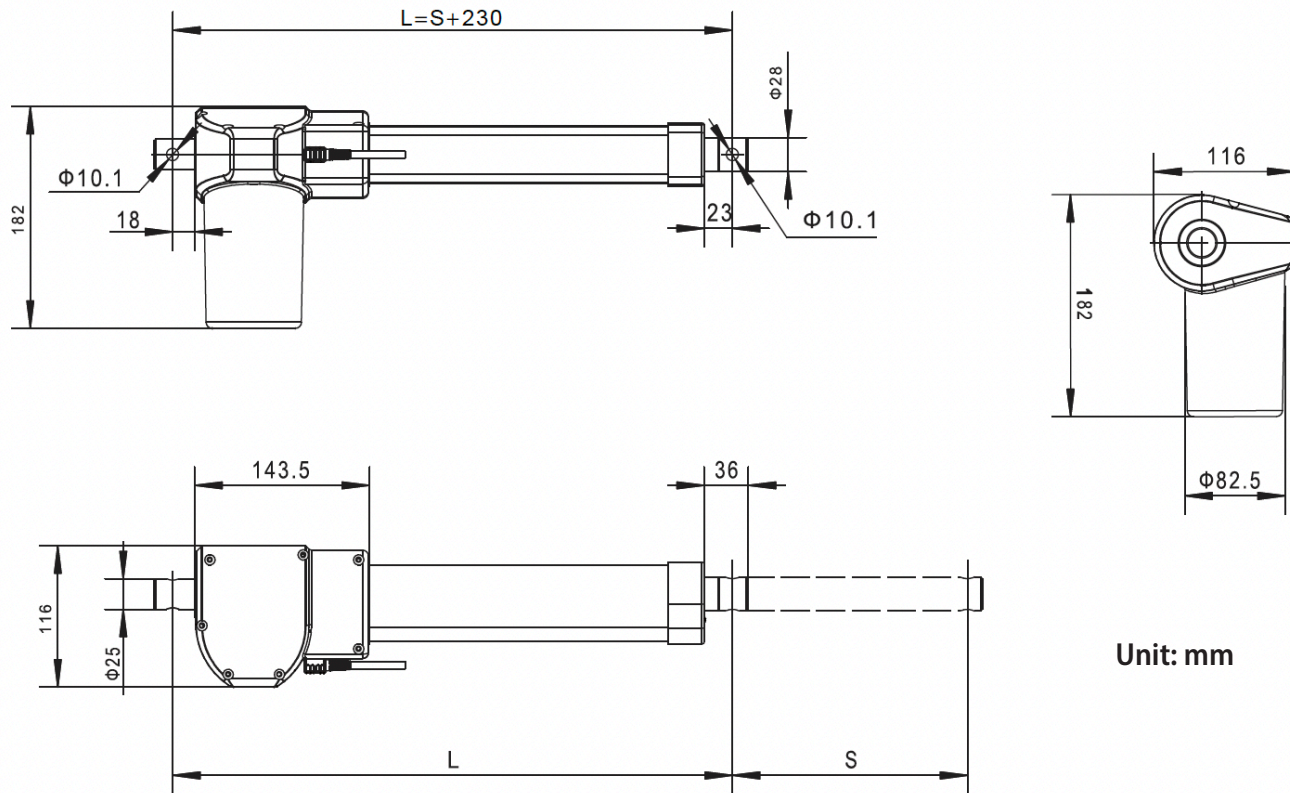
Spindle Pitch (mm)	Max. Dynamic Load Extend/Push* (N)	Max. Dynamic Load Retract/Pull* (N)	Max. Self-Locking Load (N)	Speed +/-10% (mm/sec) (*See Note 1)		Current at Full Load (A)
				Free Load	Full Load	
3	10,000	10,000	10,000	4.5	3.5	7.5

[Table 2]

*Notes:

1. Measurements are made with actuators in connection with stable power supplies and ambient temperature of 20°C.
2. Our control boxes are designed to short-circuit the motor terminals (poles) of the actuators when the actuators are not running, giving actuators a higher self-locking load.
3. If the actuators are not connected to a control box the motor terminals must be short-circuited to achieve self-locking of the actuator.
4. Above data is for typical use scenarios. Actual application scenarios should be considered. Please contact cs@machmo.com if your required parameters are not listed.

• Product Dimensions



Unit: mm

Stroke **L = Length**
 S = Stroke
Stroke: 300mm or 350mm
Maximum Load Capacity 10,000N Stroke (mm) : $20 \leq S \leq 350$ mm

Regular Use (Push/Pull)	Push Only (No Pull)	Push Only (No Pull) + Manual Operation Function
$L = S + 230$ mm	$L = S + 265$ mm	$L = S + 310$ mm

[Table 3]

Installation Dimensions

L = Length S = Stroke (Dimensions in mm)	$L = S + 230$
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[Table 4]

