



LINEAR ACTUATORS

LA-HD HEAVY-DUTY SERIES | UP TO 2,700 LBF

For heavy doors, flood barriers, and large covers. Configurable force and speed.
Sold as a complete kit with a matched SES control panel and power supply.

SPECIFICATION	LA-HD SERIES
Max rated force	2,700 lbf (12,000 N)
Force / speed	Configurable, 720 – 2,700 lbf — see configuration matrix below
Input voltage	12 / 24 / 36 / 48 VDC — supplied with an SES power/control panel
Current @ 24V	10.5 A full load • 2.4 A no load (20 A / 4 A @ 12V)
Stroke range	1.97 – 39.4 in (50 – 1,000 mm)
Retracted length	11.8 in min; approx. stroke + 9.8 in for strokes $\geq$ 8 in
Duty cycle	20%
Drive screw	ACME — no back-driving (self-locking)
Overload protection	Mechanical clutch
Extension tube	304 stainless steel
Limit switches	Built-in
Options	Potentiometer • Hall sensor • Manual hand-crank drive
Ingress protection	IP66 (washdown / outdoor rated)
Operating temperature	–40°F to 149°F (–40°C to +65°C)
Certification	CE

CONFIGURATION MATRIX — rated force / full-load speed (gear ratio $\times$ screw pitch)

	4 mm pitch	8 mm pitch	12 mm pitch
20:1	1,686 lbf / 0.35 in/s	1,124 lbf / 0.55 in/s	719 lbf / 0.94 in/s
30:1	2,473 lbf / 0.24 in/s	1,574 lbf / 0.37 in/s	1,012 lbf / 0.51 in/s
40:1	2,698 lbf / 0.18 in/s	2,248 lbf / 0.28 in/s	1,461 lbf / 0.43 in/s

Highlighted: max-force configuration (40:1 $\times$ 4 mm). No-load speeds run higher. Custom speed/load combinations available.

SOLD AS A COMPLETE SES SYSTEM

DC drive at up to 10.5 A, so the LA-HD ships as a complete kit: actuator + power supply + control panel + remote station, wired and bench-tested together. Your installer lands line power at the SES panel.
Hand-crank manual override available for power-failure operation. Dual-actuator sync engineered on request.
Bench-tested in our Connecticut shop • 1-year SES warranty, handled directly by us
Lead time quoted per configuration

WHICH SERIES?

LA-300H / LA-300F — 120VAC line voltage, up to 675 lbf, no power supply needed

LA-HD — DC drive, 720 – 2,700 lbf, strokes to 39.4 in; complete SES kit

Not sure? Send us the application — a sketch or photo is enough — and an engineer will size it for you.

Request a quote: smartengineeringsolutions.co

Smart Engineering Solutions • Stratford, CT • (203) 414-3181

LA-HD Series Rev A — specifications subject to change