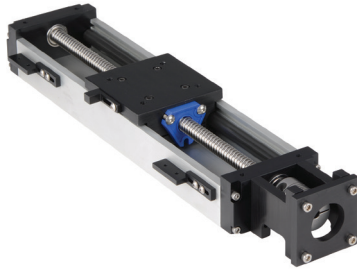




Linear Motion Products

Value Linear Slide Actuators



LAVL-60T06LP2

Description

Low-cost linear actuator using the latest in sliding element technology; hard-coated aluminum guide shafts. This versatile unit can be mounted horizontally, vertically, or inverted without loss of load capacity.

Features

- Small footprint
- Adjustable carriage pre-load
- Hard-coated aluminum slides
- Replacement components available
- Ready for NEMA 17 motor
- End-of-travel switch mounts
- AISI 6061-T6 Aluminum Alloy, Hard Anodized Slide Shaft. Hard Anodizing Depth 0.0005 to 0.0015"
- AISI 304 Stainless Steel Lead Screw

Applications

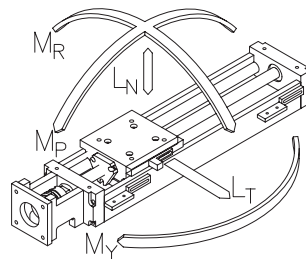
- Harsh or wet environments
- X-Y-Z positioning systems

Value Linear Slide Actuator Specifications									
Part Number	Price	Drive Type	Drive Pitch	Drive Screw Efficiency (%)	Payload Inertia Factor (in ²)	Constant System Inertia (lb _m -in ²)	Travel	Weight (lb)	Fits Motor
LAVL-60T06LP2	\$789.00	Lead screw	0.2 in	47	0.001	0.017	6in	2.0	NEMA 17
LAVL-60T12LP2	\$989.00					0.020	12in	2.8	
LAVL-60T18LP2	\$1,199.00					0.024	18in	3.5	
LAVL-60T24LP2	\$1,399.00					0.027	24in	4.2	
LAVL-60T06LP5	\$789.00		0.5 in	57	0.0063	0.020	6in	2.0	
LAVL-60T12LP5	\$989.00					0.023	12in	2.8	
LAVL-60T18LP5	\$1,199.00					0.026	18in	3.5	
LAVL-60T24LP5	\$1,399.00					0.030	24in	4.2	

System Inertia Calculation:

To calculate the inertia reflected to the motor in a particular actuator, multiply the carriage payload by the payload inertia factor and then add the constant system inertia value for that actuator. The constant system inertia value for each system includes the inertia of the shaft coupler, carriage, and lead/ball screw.

- The payload must be in units of lb_m.



Load rating diagram

Value Linear Slide Actuator Load/Moment Ratings							
Part Number	Actuator Thrust	Load (lb)			Moment (lb-in)*		
		Normal – L _N		Transverse	Roll	Pitch	Yaw
		Down	Up	L _T	M _R	M _P	M _Y
LAVL-60TxxLP2	70	110	110	110	50	32	32
LAVL-60TxxLP5	50	110	110	110	50	32	32

* It is recommended that offset loads be located 5 inches or less from the center of the carriage. When the loads are offset at greater distances, the carriage can vibrate during travel.

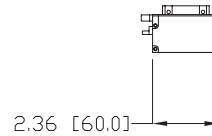
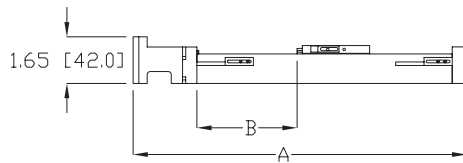
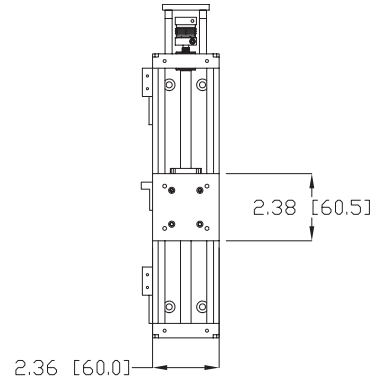


Linear Motion Products

Value Linear Slide Actuators

Dimensions (in [mm])

PART NUMBER	A	B (TRAVEL)
LAVL-60T06LP2	11.82 [300.3]	6.00 [152.4]
LAVL-60T12LP2	17.82 [452.8]	12.00 [304.8]
LAVL-60T18LP2	23.82 [605.3]	18.00 [457.2]
LAVL-60T24LP2	29.82 [757.7]	24.00 [609.6]
LAVL-60T06LP5	11.82 [300.3]	6.00 [152.4]
LAVL-60T12LP5	17.82 [452.8]	12.00 [304.8]
LAVL-60T18LP5	23.82 [605.3]	18.00 [457.2]
LAVL-60T24LP5	29.82 [757.7]	24.00 [609.6]



LAVL-60TxxLPx

See our website www.AutomationDirect.com for complete Engineering drawings.

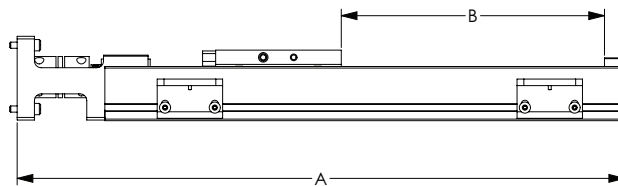
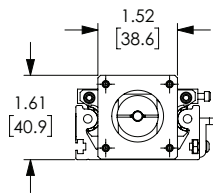
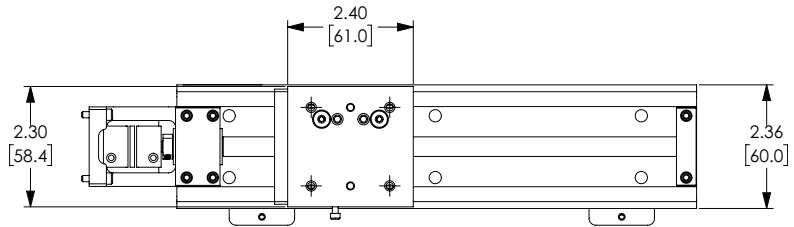


Linear Motion Products

Value Linear Slide Actuators - Generation 2

Dimensions (in [mm])

PART NUMBER	A	B (TRAVEL)
LAVL2-60T06LP2	11.61 [294.8]	6.03 [153.1]
LAVL2-60T12LP2	17.61 [447.2]	12.03 [305.6]
LAVL2-60T18LP2	23.61 [599.6]	18.03 [458.0]
LAVL2-60T24LP2	29.61 [752.0]	24.03 [610.3]
LAVL2-60T06LP5	11.61 [294.8]	6.03 [153.1]
LAVL2-60T12LP5	17.61 [447.2]	12.03 [305.6]
LAVL2-60T18LP5	23.61 [599.6]	18.03 [458.0]
LAVL2-60T24LP5	29.61 [752.0]	24.03 [610.3]



LAVL2-60TxxLPx

See our website www.AutomationDirect.com for complete Engineering drawings.

Accessories

Value Linear Slide Actuator Accessories			
Part Number	Price	Description	Weight (lb)
LAVLACC-001*	\$289.00	SureMotion repair kit, for use with LAVL-60TxxLP2 actuators. Nut, bushings, end bearings and oil syringe included.	0.5
LAVLACC-002*	\$289.00	SureMotion repair kit, for use with LAVL-60TxxLP5 actuators. Nut, bushings, end bearings and oil syringe included.	0.5
LAVLACC-003	\$239.00	SureMotion motor adapter, NEMA 23 frame. For use with LAVL(2)-60 series actuators. 1/4 inch x 5 mm coupler included.	1.0
LAVLACC-004	\$112.00	SureMotion mounting plate, XY type. For use with LAVL(2)-60 series actuators.	0.5
LAVLACC-005	\$252.00	SureMotion mounting plate, XZ type. For use with LAVL(2)-60 series actuators.	1.0
LAVLACC-006*	\$289.00	SureMotion repair kit, for use with LAVL2-60TxxLP2 actuators. Nut, bushings, end bearings and oil syringe included.	1.0
LAVLACC-007*	\$289.00	SureMotion repair kit, for use with LAVL2-60TxxLP5 actuators. Nut, bushings, end bearings and oil syringe included.	1.0

* Repair kits contain replacement components that are the same as the original components in the actuator assemblies.



Some accessories not shown see www.AutomationDirect.com for additional product photos.

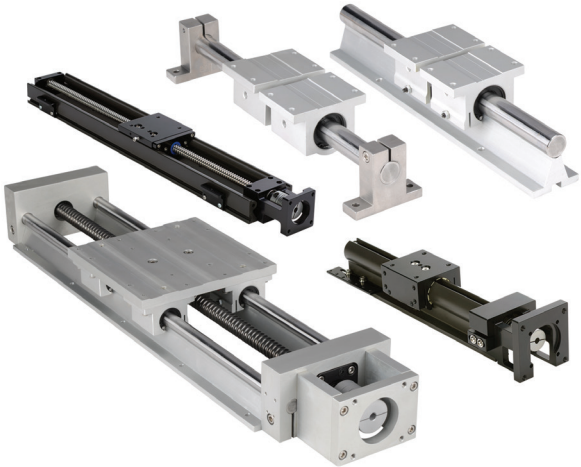


Linear Motion Products

Product Overview

Actuator Overview

SureMotion linear motion offers both motor-ready actuator assemblies, and a versatile assortment of sliding components and accessories to provide a wide variety of motion control solutions.

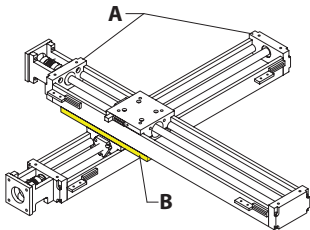


Linear Slide Actuator Comparisons

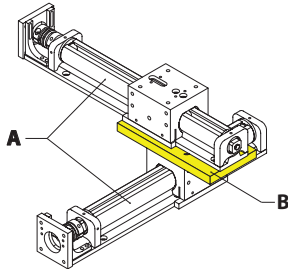
Actuator Series Comparisons						
Actuator Series	Actuator Type	Drive Type	Max Load Capacity (lb)	Max Speed (in/s)	Travel (in)	Relative Price
LARSD2	Twin Round Shaft	Ball Screw	920	6	12, 24	\$\$\$\$
LACP(2)	Compact Slide	Lead Screw	125	20	6, 12, 24, 36	\$\$
LAVL(2)	Value Slide	Lead Screw	110	15	6, 12, 18, 24	\$

Available Multi-Axis Configurations

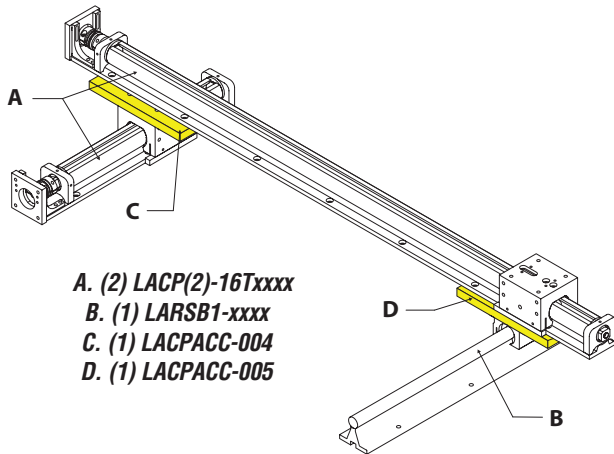
X-Y Axis Configurations



A. (2) LAVL(2)-60Txxxx
B. (1) LAVLACC-004

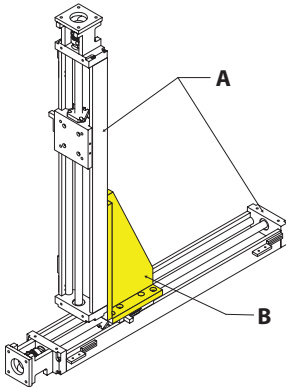


A. (2) LACP(2)-16Txxxx
B. (1) LACPACC-004



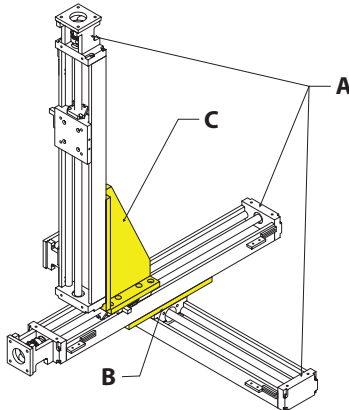
A. (2) LACP(2)-16Txxxx
B. (1) LARSB1-xxxx
C. (1) LACPACC-004
D. (1) LACPACC-005

X-Z Axis Configuration

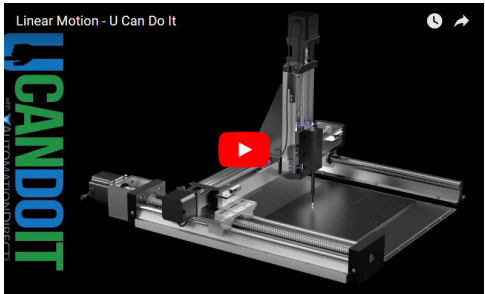


A. (2) LAVL(2)-60Txxxx
B. (1) LAVLACC-005

X-Y-Z Axis Configuration



A. (3) LAVL(2)-60Txxxx
B. (1) LAVLACC-004
C. (1) LAVLACC-005



Click on the above video link for a short visual example of how our products can be used.