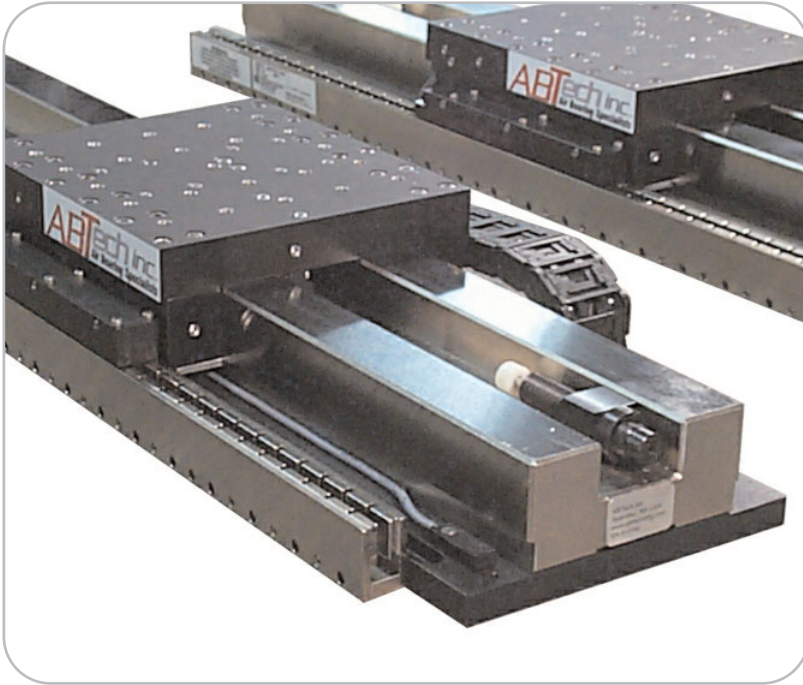


MLAB7750 - Series Air Bearing Linear Slides

*Ultra-Smooth **Motorized** Linear Motion*



ABTech, Inc. offers the **MLAB** Series Ultra-Precision Magnetically Preloaded Air Bearing Linear Slides. The Magnetically preloaded air bearing carriage provides a low profile design while maintaining load capacity and accuracy for linear straightness measurement, linear positioning, constant velocity and linear systems requiring no static friction.

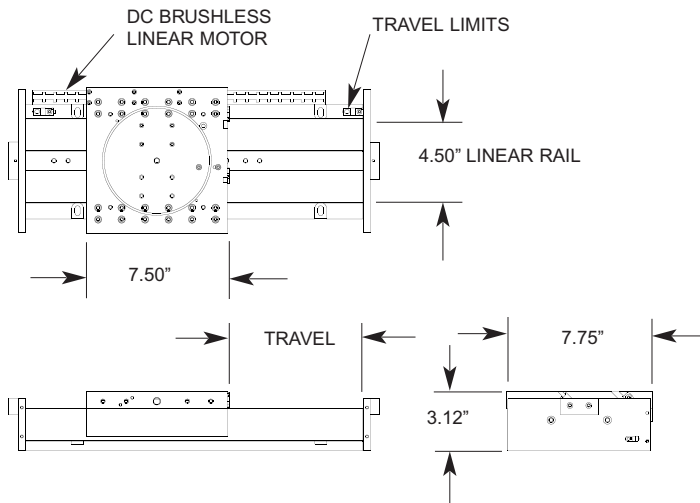
The **MLAB** Series stages are ideal for wafer scanning systems, computer-to-plate systems, linear measurement systems, and vision system positioning stages. ABTech's modular design approach and full engineering services can respond quickly to provide a solution to your O.E.M. needs for Ultra-Precision linear motion.

Features:

- *Magnetically preloaded air bearing carriage design*
- *Ultra-smooth motion, no static friction*
- *Total noncontact component design*
- *Linear motor drives, Noncontact Linear encoders*
- *High load capacity and stiffness*
- *Durable electroless nickel plated steel rail design*
- *Low air consumption*
- *Custom systems can be provided for O.E.M.*
- *Custom tooling and fixturing design and manufacturing*

Specifications

MLAB 7750 Series air bearing linear slides



Available with bellows protective covers, end of travel limits and overtravel protection.

Contact ABTech, Inc. for a detailed drawing of the slide assembly.

Specifications

Travel	2.00in - 48.00in. (2.00in. increments)
Motor	Linear Brushless DC Servo Motors
Max. Accel. (No Load)	1.3g (500in./sec ²)
Peak Force	37lbs
Cont. Stall Force	6.00lbs
Resolutions (microns)	5.0, 1.0, 0.5, 0.2, 0.1 & 0.05
Position Repeatability	± 5.0μ" (0.125μm) Encoder, Motor & Control dependant
Straightness of Travel	A1 = 5.0μ"/Inch & 30.0μ"/6.00" or A2 = 15.0μ"/Inch & 90.0μ"/6.00"
Pitch, Roll & Yaw	3 arc-sec / 12.00"
Load Capacity	150lb Vertical & 75lb Horizontal
Air Consumption	1.0 scfm @50psi

Slide performance can be effected by method of mounting the rail and loading. Consult ABTech's applications engineering. Specifications are at 50psi
Consult ABTech's applications engineering for moment loading and stiffness considerations.
Specifications are subject to change without notification. Special accuracies can be supplied.

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ABTech inc.
Pride In Precision
On Line: www.abtechmfg.com