Stage: Dovetail Air Bearing Linear Stage

Travel: 50mm to 800mm

Max Payload: 30 kg

Max Velocity: 2 m/sec

Motor: Ironless Core Linear Motor

Feedback: Non-Contact Optical Encoder

Scale: Gold Tape Scale

Optional: Near Zero CTE ZeroMet

Resolution: 1Vp-p Analog Output (5nm with 4096 Interpolation)

Digital Output Options: 5um, 1um, 0.5um, 0.2um, 100nm, 50nm, 20nm**, 10nm**, and 5nm** (** Reduced Speeds Apply)

Sensors: Integrated Home and End of Travel Limits

Bearings: Porous Media Air Bearings

Cables: High Flex, 10M Cycle, 3m Length

Optional: Trackless Cable Management System

Structure: Anodized Aluminum 6061-T6

Base Structure: Granite, Aluminum, or Steel

Designed per System Requirements

Environment: Standard

Temperature: 0°C to 50°C

Humidity: 10% to 80% Non-Condensing

Precision: 6-D Nano Precision™ Test Methods

STANDARD FEATURES

TRAVEL LENGTH

<table>
<thead>
<tr>
<th>TRAVEL (mm)</th>
<th>LENGTH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>270</td>
</tr>
<tr>
<td>100</td>
<td>320.8</td>
</tr>
<tr>
<td>150</td>
<td>371.6</td>
</tr>
<tr>
<td>200</td>
<td>422.4</td>
</tr>
<tr>
<td>300</td>
<td>524</td>
</tr>
<tr>
<td>400</td>
<td>625.6</td>
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<tr>
<td>500</td>
<td>727.2</td>
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<tr>
<td>600</td>
<td>828.8</td>
</tr>
<tr>
<td>800</td>
<td>1032</td>
</tr>
</tbody>
</table>

* All units millimeters unless otherwise noted.
* All hole patterns centered on stage carriage.
* Custom and intermediate sizes available.

NOTE: MODEL AI-LM-50000-AB SHOWN.

NOTE: XY CONFIGURATIONS AVAILABLE.