

## FEATURES

[High-Performance Scanning and Inspection](#)

[Electromechanical System Brochure in German](#)

[Latest Software Releases](#)

[Motion Control and Positioning Library](#)

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## TRADESHOWS

### Optics & Photonics

San Diego Convention Center

San Diego, CA

Booth 300

August 28-30, 2007

<http://spie.org/optics-photonics.xml>

### Diskcon 2007

Santa Clara Convention Center

Santa Clara, CA

Booth 201

September 19-20, 2007

<http://www.idema.org>

### Semicon Europa

Munich Trade Fair Centre

Munich, Germany

Booth 2859

October 9-11, 2007

<http://www.semi.org>

## AEROTECH QUICK LINKS

[Knowledge Base - FAQs](#)

[Engineering Reference](#)

[Software & Manual Downloads](#)

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[Job Listings](#)

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## Do You Need a High Performance Scanning and Inspection Solution?



*Aerotech's ABL1500 features an active air-preload on all air-bearing surfaces*

Leading-edge manufacturers, such as those in the semiconductor and data storage industries, demand positioning and velocity tolerances beyond the capability of conventional mechanical-bearing positioning systems. The ABL1500, with all-air preload, exceptionally high stiffness, and excellent geometric characteristics, was designed specifically to meet the needs of the most demanding applications.

This design includes a large air-bearing surface that distributes the load over a large area, resulting in a stage with outstanding stiffness that is ideal for heavy or offset loading. In addition, the air bearing has an inherent averaging effect that maximizes performance. The thin film fills small surface voids and allows for other irregularities, yielding superior pitch, roll, yaw, straightness, and flatness specifications.

Please [GO HERE](#) if you would like to view or download the ABL1500 data sheet.

Please [GO HERE](#) to discuss your motion application with an Aerotech Application Engineer.

### ABL1500 Benefits

- **Designed for high-performance scanning and inspection**
- **Active air preload on all air-bearing surfaces**
- **Linear encoder feedback provides sub-nanometer resolution**
- **High stiffness for heavy loads and excellent geometrical performance**
- **Travel up to 500 mm**

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## Advanced Electromechanical Systems for Aerospace, Defense, and Government Available in German

Aerotech's brochure *Advanced Electromechanical Systems for Aerospace, Defense, and Government* is now available in German. This brochure includes a variety of motion simulators and single- and multi-axis positioning systems used in some of the most advanced applications in the world. High-accuracy systems described include those designed for angular testing and calibration of satellite sensors, missile seeker gimbals, inertial navigation guidance units, optical pointing and target tracking, and more. Systems for high vacuum (10<sup>-6</sup> torr) and cleanroom environments are also featured along with Aerotech's extensive custom system capability.



Please [GO HERE](#) if you would like a hard copy of this brochure.  
 Please [GO HERE](#) for a downloadable pdf, or simply view the pdf online.

## Latest Software Releases

This section lists the latest revisions of Aerotech software, providing a handy method of checking to see that your Aerotech software, and hence your Aerotech system, is working at peak efficiency. All Aerotech software is available for instant download from our website — just click the software title! An entry in **red** means the software has been updated since our last newsletter.

Software	Version	Description
<a href="#">A3200 Digital Automation Platform</a>	<b>Version 2.19</b>	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
<a href="#">U600 HMI</a>	Version 6.00.136	Windows® HMI
<a href="#">U600 SDK</a>	Version 6.00.136	U600 Software Developers Kit
<a href="#">U600 LIB</a>	Version 6.00.136	Windows® Help File, U600 Libraries and Utilities
<a href="#">U500 PC-Bus-Based Controller</a>	Version 5.22	Windows® HMI and Windows® Help File
<a href="#">U511 Stand-Alone Controller</a>	Version 5.22	Interface Software and Windows® Help File
<a href="#">Soloist Single Axis Controller</a>	Version 2.06	Interface Software and Windows® Help File
<a href="#">Ensemble</a>	Version 1.00	<b>Please contact Aerotech for more information.</b>

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## Motion Control and Positioning Library

This resource provides a short summary and a link to articles, tutorials, white papers, and other materials that discuss problems and solutions involving motion control and positioning equipment and systems.

## Articles

### Motion Control Requirements for Hermetic Seam Welding

A discussion of the motion control platform in regard to hermetic seam welding of sophisticated electronic devices implanted in the human body. Read the full article [HERE](#).

### Digitizing a Century of Astronomical Images

Aerotech's ABL9000 air-bearing stage is put to use to efficiently digitize more than 500,000 photonegatives. For more information on this article, click [HERE](#).

### Two-Photon Polymerization: A New Approach to Micromachining

Femtosecond lasers enable microfabrication with resolution beyond the diffraction limit. Read the full article [HERE](#).

### Aerotech Pushes Mechatronics Envelope with Motion Systems

An interview with Dr. Robert Novotnak discussing how mechatronics is employed in high-precision motion control. Read the full interview [HERE](#).

### Precise Triggering of External Events Based on Axis Position

An axis-based trigger in the controller can significantly improve part quality, reduce cycle time, and eliminate processing problems. This article discusses Aerotech's unique PSO (Position Synchronized Output) option. Read the full article [HERE](#).

### Linear Motors Application Guide

A tutorial guide to the history, design, and application of linear motors. Get the PDF [HERE](#).

### Air Bearings Aid Assembly of Flat Panel Displays

Many manufacturing processes for flat panel displays (FPDs) require precision motion control for feature generation and inspection. Aerostatic bearings are an excellent choice for many of these processes. Read the full article [HERE](#).

### Applications Dictate Gimbal Selection

The choice between [direct-drive](#) and [gear-driven](#) gimbals and optical mounts presents an opportunity for a comparison of the pros and cons for each. Read the full article [HERE](#).

### Search the Aerotech [Article Archive](#)

## Standards Organizations

### 1394 Trade Association

<http://www.1394ta.org>

### ISA, the International Society for Measurement and Control

<http://www.isa.org>

### IEC

<http://www.iec.ch>

### ISO

<http://www.iso.org>