

FEATURES

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Motion Control and Positioning Library

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TRADESHOWS

Photonics West
San Jose Convention Center
San Jose, CA
Booth 1335
January 22-24, 2008
<http://www.spie.org/info/pw>

MD&M West
Anaheim Convention Center
Anaheim, CA
Booth 1797
January 29-31, 2008
<http://www.mdmwest.com>

Machine Building Drives & Automation
National Expo Centre
Birmingham, UK
Booth 2000
February 13-14, 2008
<http://www.devicelink.com/expo/macbuild08/index.html>

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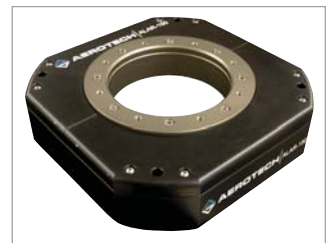
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Visit Aerotech at Photonics West 2008 And See These Exciting Products!

Aerotech will exhibit our motion control components and systems in Booth 1335 at [Photonics West](#) in San Jose, CA, from January 22-24. Products to be demonstrated include the [ALAR-150LP](#) large aperture rotary stage, [AMG-150LP](#) direct-drive gimbal, the [Ensemble](#) multi-axis controller, the [Automation 3200](#) control platform, and assorted direct-drive, [air-bearing](#) stages.

The [ALAR-150LP](#) (Low Profile) direct-drive rotary stage combines a large 150 mm clear aperture and direct-drive motor to offer significant performance benefits versus worm-drive rotary stages, and has a height of only 75 mm. Applications include single and multi-axis electro-optic sensor testing, missile seeker testing, antenna testing, inertial navigation device testing, photonic component alignment, high-accuracy laser machining, and more.



ALAR-150LP Rotary Stage

The [AMG-150LP](#) (Low Profile) position and rate gimbal mounts provide ultra-precise angular position, rate, and acceleration for development and production testing of a wide range of systems. The AMG LP series is ideal for directing optics, lasers, antennas, and sensors at high speed to precise pointing angles. Typical applications include missile seeker test and calibration, electro-optic sensor and FLIR testing, optical testing of sensors in a vacuum, and angular testing of inertial sensors such as gyros, MEMS, and accelerometers.



AMG-150LP Gimbal

The [Ensemble™](#) is Aerotech's next-generation, multi-axis controller for moderate to high-performance applications with high-speed communication through 10/100 Base T Ethernet or USB interfaces. It offers easy to use, affordable multi-axis (1 to 10 axes) motion programming for laboratory experimentation, production testing, or advanced OEM automated manufacturing systems.



Ensemble Drives, Stand-Alone Controller, and Software

[Automation 3200](#) is a software-based (no PC slots required) motion, vision, PLC, robotics, and I/O platform and marries a robust, high-performance motion engine with vision, PLC, robotics, and I/O in one unified programming



Automation 3200 Software, Ndrive, and Npaq

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environment. The A3200 utilizes the industry standard FireWire® network to provide from 1 to 32 axes of synchronized control with no degradation in performance as the axis count increases.

Aerotech [air-bearing stages](#) and multi-axis systems are ideal in photonic, PV, semiconductor, and other critical applications. Our air bearings feature rapid move and settle times and outstanding stiffness for applications requiring heavy or offset loading.

Please join us for a demonstration at [Photonics West](#). To schedule an appointment with an Aerotech Application Engineer at the show, please click [HERE](#). For information on all of Aerotech's motion control and positioning systems and components, please view our [website](#).



*Top: ABL1500
Linear Air Bearing
Bottom: ABR5-250
Rotary Air Bearing*

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
A3200 Digital Automation Platform	Version 2.19	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
Soloist Single-Axis Controller	Version 2.08.000	Development Tools, Libraries, Help Files, and Manuals
Ensemble Multi-Axis Controller	Version 1.01.002	Development Tools, Libraries, Help Files, and Manuals
U600 HMI	Version 6.00.136	Windows® HMI
U600 SDK	Version 6.00.136	U600 Software Developers Kit
U600 LIB	Version 6.00.136	Windows® Help File, U600 Libraries and Utilities
U500 PC-Bus-Based Controller	Version 5.22	Windows® HMI and Windows® Help File
U511 Stand-Alone Controller	Version 5.22	Interface Software and Windows® Help File

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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

Micropositioning Meets Mechatronics

Compared to traditional methods, the mechatronic design approach is more of a holistic approach to product design, where the tradeoffs between different functional components (software, hardware, user interface, etc.) are carefully considered for their impact on overall performance. Read the full article [HERE](#).

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>