AEROTECH In Motion

Dedicated to the Science of Motion — *June 14, 2007*

FEATURES

See the Aerotech Sealed Gantry at Laser 2007

AOM110 Optical Mounts Delivered Fast

Latest Software Releases

Motion Control and Positioning Library

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TRADESHOWS

Laser 2007
Munich Trade Fair Centre
Munich, Germany
Booth B3.606
June 18-21, 2007
http://www.world-of-photonics.net

Semicon West
Moscone Center
San Francisco, CA
Booth 6670
July 17-19, 2007
http://www.semi.org

Optics & Photonics
San Diego Convention Center
San Diego, CA
Booth 300
August 28-30, 2007
http://spie.org/optics-photonics.xml

AEROTECH QUICK LINKS

Knowledge Base - FAQs
Engineering Reference
Software & Manual Downloads
CAD Downloads
Job Listings

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Aerotech Introduces Sealed Gantry at Laser 2007

LASER 2007
World of PHOTONICS

Aerotech will introduce an innovative sealed gantry system at Laser 2007 in booth B3.606 in Munich Germany, June 18-21. This system is ideal for laser processing applications in dirty environments or with substantial amounts of debris that can cause downtime and/or damage to the internal components of gantry systems. This complete system incorporates all drive and control electronics, machine base, and operator's display.

Aerotech Sealed Gantry

In addition to the sealed gantry, Aerotech will introduce the Nmark SSaM, a galvo scanner control module that synchronizes galvo and servo motion, expanding the scanner's field of view and broadening its application base while maintaining the high throughput capabilities expected from scanners.

Many other motion control and positioning systems and components will be displayed, including the LaserTurn™ 5, an integrated linear-rotary system for cylindrical laser processing that combines automated material handling with high-performance, direct-drive linear and rotary motion. An assortment of Aerotech's high-performance linear and rotary air-bearing and mechanical-bearing stages, single- and multi-axis motion controllers, drives, and motors will also be demonstrated.


LaserTurn™ 5

Please join us for a demonstration of Aerotech products, or simply to discuss your motion application. For information on all of Aerotech's motion control and positioning systems and components, please view our website.

Fast Delivery Service Now Includes AOM110 Optical Mounts

The *Fast Delivery Service* (FDS) provides our customers with quick turnaround on selected, off-the-shelf Aerotech stages, motors, and controllers. The latest addition to the list of products available through the FDS program is Aerotech's AOM110 series optical mounts.

CLICK HERE for more information on the program, as well as a listing of available products and delivery times.

If you are interested in the Aerotech FDS program, please CONTACT us for further information or to place an order.


AOM110

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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 2.18	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
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
Soloist Single Axis Controller	Version 2.05	Interface Software and Windows® Help File
Ensemble	Version 1.00	Please contact Aerotech for more information.

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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

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.

Kinematics and Precision Stages Drive Laser Welding

Real-time kinematics coupled with direct-drive positioning systems provide the highest performance solution for laser seam-welding applications. 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