

FEATURES

Upgraded FAQ Section
Aerotech Sponsors Photovoltaics Webcast
Visit Aerotech at IMTS in Chicago
Latest Software Releases
Motion Control and Positioning Library

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TRADESHOWS

Optics & Photonics
San Diego Convention Center
San Diego, CA
Booth 565
August 12-14, 2008
<http://www.spie.org/info>

IMTS
McCormick Place
Chicago, IL
Booth D-3246
September 8-13, 2008
<http://www.imtsnet.org>

Diskcon 2008
Santa Clara Convention Center
Santa Clara, CA
Booth 106
September 17-18, 2008
<http://www.idema.org>

AEROTECH QUICK LINKS

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

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See our Upgraded FAQ Section

Aerotech recently upgraded our FAQ section to provide a more informative and helpful experience for our customers. Users can now post questions and receive responses directly from our Customer Service technicians, browse FAQs by topic or sub-topic, and even sign-up for our RSS feed so that you can easily monitor new questions and answers of interest. The FAQs are also searchable to help you quickly and efficiently find what you need.

Please go [HERE](#) to view the upgraded FAQ section.

Aerotech Sponsors Photovoltaics Webcast

Laser Focus World will present the *Fundamentals of Photonics: Photovoltaics* webcast, co-sponsored by Aerotech, on August 20, 2008 at 1:00 PM EDT. The webcast is designed to provide scientists, researchers, and engineers with an overview of this emerging technology and will introduce photovoltaics (PV) technology and the various types of PV cells before going on to explain considerations central to their use.



Aerotech's SolarScribe photovoltaic panel scribing system

Extensive application experience and a broad array of motion products make Aerotech the perfect partner for your [photovoltaic manufacturing or testing platform](#). Our worldwide operation has engineered and manufactured a multitude of motion platforms for solar cell manufacturing and inspection, ranging from small format systems for R&D to full-size production panel processing systems.

Please go [HERE](#) to register for this important webcast.

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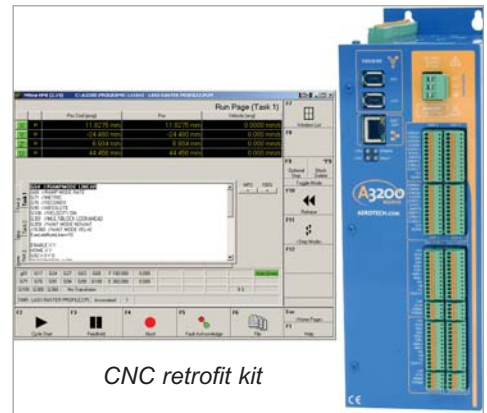
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Visit Aerotech at IMTS in Chicago

Aerotech will display and demonstrate a wide variety of motion control components and systems at **IMTS** in Chicago, Booth D-3246, September 8-13. Products of interest will include those for:

- Fuel Injector Drilling
- Sensor Testing
- 150 A Amplifiers
- Packaging and Bottling
- Stent Manufacturing
- Laser Processing (PSO – Position Synchronized Output)
- Motion Designer – software GUI for generating or importing motion trajectories, and running and then evaluating the trajectory



CNC retrofit kit

Please join us for a demonstration at **IMTS**, [schedule](#) an appointment with an Aerotech Application Engineer, or view products on our [website](#).

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 2.21.002	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
Soloist Single-Axis Controller	Version 2.09.002	Development Tools, Libraries, Help Files, and Manuals
Ensemble Multi-Axis Controller	Version 2.00.002	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

Resolution Resolved

System or stage resolution is often spelled out for motion controls as well as in vendor catalogs and website specifications. However, many misinterpret what the term truly means. For more information on this article, click [HERE](#).

Linear Motor Basics

Linear motors continue to increase in industrial applications. This article provides an overview of the linear motor types available. Read the full article [HERE](#).

How to Select and Install Air Bearing Stages

High-precision test, measurement, and manufacturing operations often require smooth, frictionless, low-maintenance motion control systems. An excellent choice for a complete motion subsystem is a linear or rotary stage that uses an air bearing for guidance, coupled to a direct-drive motor, a high-resolution position encoder, and a digital controller. Read the full article [HERE](#).

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](#).

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