AEROTECH In Motion

Dedicated to the Science of Motion — *August 30, 2006*

FEATURES

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TRADESHOWS

IMTS
McCormick Place
Chicago, IL
Booth D-3246
September 6-13, 2006
http://www. imtsnet.org

Diskcon
Santa Clara Convention Center
Santa Clara, CA
Booth 401
September 13-14, 2006
http://www.idema.org

Medical Design & Device Expo
Santa Clara Convention Center
Santa Clara, CA
Booth 315
September 22, 2006
http://www.mdshowcase.com

AEROTECH QUICK LINKS

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Visit Aerotech at IMTS for Your Motion Control and Positioning Needs

International Manufacturing Technology Show

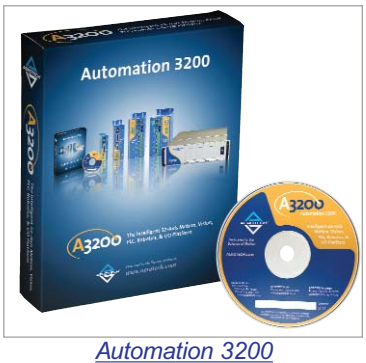
IMTS 2006

September 6–13, 2006
McCormick Place
Chicago, IL USA

Aerotech will exhibit our motion control and positioning components and systems in Booth D-3246 at IMTS 2006 in McCormick Place, Chicago, IL, from September 6-13.

Products to be demonstrated include the Automation 3200 1- to 32-axis motion, vision, PLC, robotics, and I/O platform, the Soloist™ single-axis servo controller, the ALS5000 linear-motor stage, and the ADRT direct-drive rotary stage.

The Automation 3200 digital automation platform represents a revolutionary advancement over traditional PC-bus-based motion controllers. The A3200 is software-based (no PC slots required) and marries a robust, high-performance motion engine with vision, PLC, robotics, and I/O in one unified programming environment. The A3200 utilizes the industry standard super high-performance FireWire® network to provide from 1- to 32-axes of synchronized control with no degradation in performance as the axis count increases.

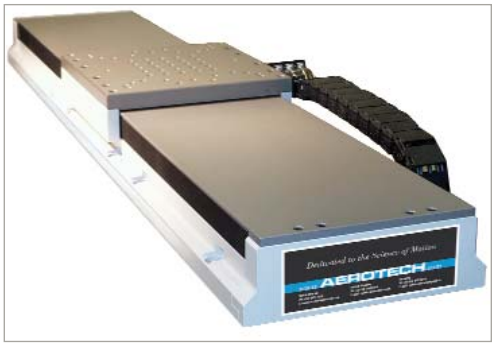


Automation 3200

Aerotech's Soloist™ is a single-axis servo controller that combines a power supply, amplifier, and position controller in a single package. The Soloist can control up to five tasks simultaneously, as well as handle variables and manage I/O, for demanding production applications. It has high-speed position latch inputs and advanced data logging capabilities that make it ideal for laboratory, test, and industrial applications.


Soloist™

The ALS5000 was designed to meet the needs of the most demanding applications. A rigid base, fully sealed metal waycovers, and high power linear motor makes the ALS5000 the stage of choice in laser machining, ceramic scribing, or any other application requiring high accuracy in a production environment.


ALS5000

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ADRT

The ADRT series direct-drive rotary stages provide superior angular positioning and velocity control in applications ranging from indexing to high-speed laser machining to precision wafer inspection. To maximize positioning performance, the ADRT series utilizes Aerotech's S-series brushless, slotless motor that has no brushes to wear, no gear trains to maintain, and high acceleration and high speeds. Since it is a slotless, ironless design, there is zero cogging, meaning that there is absolutely no torque ripple.

Please join us for a demonstration of our motion control and positioning solutions. For more information on IMTS 2006, please click HERE. 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.

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 2.16	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 2.04	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

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, and how any application that requires precise data acquisition or process action linked to axis position can benefit from it. Read the full article HERE.

Laser Machining for Medical Applications

High performance laser machining centers benefit from advances in motion control and positioning technology. 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 because they allow precise, repeatable motion; are clean-room compatible; and are maintenance-free. 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. The higher throughput, lower maintenance, and improved part quality available with this approach result in a system with the lowest total cost of ownership. 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