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CONTACT US

Aerotech, Inc.

Phone: 412-963-7470

Email: sales@aerotech.com

Web: www.aerotech.com

Aerotech Ltd.

Phone: +44-118-9409400

sales@aerotech.co.uk

Aerotech GmbH

Phone: +49-911-9679370

sales@aerotechgmbh.de

TRADESHOWS

Photonics West

San Jose Convention Center

San Jose, CA

Booth 1206

January 23-25, 2007

<http://www.spie.org/info/pw/>

MD&M West

Anaheim Convention Center

Anaheim, CA

Booth 1797

February 13-15, 2007

<http://www.mdmwest.com>

APEX

Los Angeles Convention Center

Los Angeles, CA

Booth 1771

February 20-22, 2007

<http://www.goipcshows.org>

AEROTECH QUICK LINKS

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Advanced Electromechanical Systems for Aerospace, Defense, and Government

Aerotech has recently completed its brochure *Advanced Electromechanical Systems for Aerospace, Defense, and Government*. Our latest 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. For over 35 years, Aerotech has manufactured precision positioning and motion systems for businesses and organizations that require cutting-edge technologies and innovative solutions.

High-accuracy systems described in this brochure 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^{-6} torr) and cleanroom environments are also featured along with Aerotech's extensive custom system capability. Examples of just a few



Precision, Direct-Drive Rate Tables



Direct-Drive AZ/EL Pedestal Mounts



Unique payloads moved accurately in AZ/EL/Roll



Advanced Motion Controllers (from left to right): Soloist™, Ensemble™ Epaq, and the Automation 3200.

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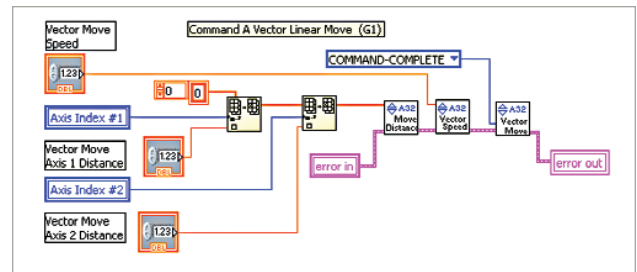
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of the products included in this brochure are shown.

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.



Automation 3200 includes integrated LabVIEW® VIs and LabVIEW® example code. A vector linear move diagram is shown here.

Having trouble with the way our e-newsletter is displayed, or not receiving every issue? The constant fight against SPAM may have necessitated a change in your organization's SPAM filter. Ask your IT department to add our IP address to the white list/safe list.

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 2.17	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

Two-Photon Polymerization: A New Approach to Micromachining

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

Tackling the Automation Challenge

Automation in the medical device industry continues to grow at a very healthy pace. This article discusses the reasons for this growth, the areas in which this growth is taking place, as well as Aerotech's contribution to this trend. Read the full article [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>