

## FEATURES

Vacuum Preparation of Your Aerotech Stage

Join Us at Semicon West 2006!

Motion Control and Positioning Library

Latest Software Releases

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## TRADESHOWS

### Semicon West

Moscone Center

San Francisco, CA

Booth 6462

July 11-13, 2006

<http://www.semi.org>

### Optics & Photonics

San Diego Convention Center

San Diego, CA

Booth 832

August 15-17, 2006

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

### IMTS

McCormick Place

Chicago, IL

Booth D-3246

September 6-13, 2006

<http://www.imtsnet.org>

## AEROTECH QUICK LINKS

[Knowledge Base - FAQs](#)

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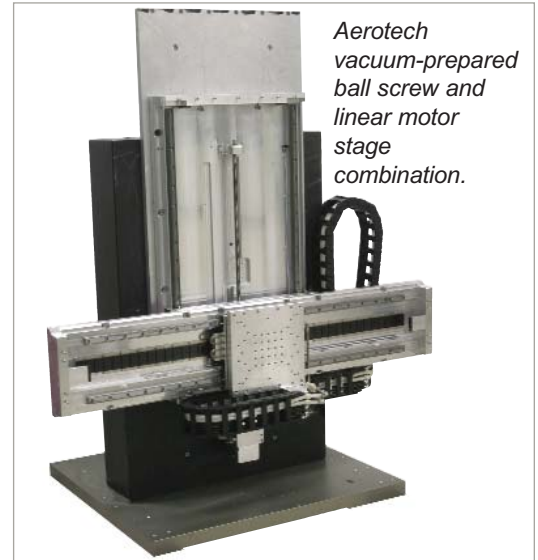
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## Low- and High-Vacuum Preparation of Aerotech Systems and Stages

Vacuum preparation of Aerotech positioning stages is available for most of our stage models. A table summarizing these modifications is shown. Aerotech certifies all stages, stage hardware (e.g., mounting brackets), motors, feedback devices, and cables for vacuum operation to  $10^{-3}$  or  $10^{-6}$  torr.

Aerotech can supply vacuum compatible motion control stages equipped with linear motors. Vacuum compatible linear motor stages cannot rely on normal convection for removal of heat generated by the operation of the linear motors, so we have developed a special cooling technique for our linear-motor-driven stages. Read the entire article [HERE](#).

Please contact an Aerotech [Application Engineer](#) if you require high-performance linear and/or rotary positioning in a vacuum environment.



*Aerotech vacuum-prepared ball screw and linear motor stage combination.*

Low Vacuum Option ( $10^{-3}$ )	High Vacuum Option ( $10^{-6}$ )
Standard PC Boards	Standard PC Boards
Standard Solder	Standard Solder
Teflon Wires	Teflon Wires
Standard Electronic Components	Standard Electronic Components
Nylon	Nylon (sparingly)
Standard Rotary Encoders with Teflon	Standard Rotary Encoders with Teflon
Paint, Anodize, Alodine, Hardcoat, Black Oxide	Vacuum Paint, Anodize, Alodine, Hardcoat, Untreated Aluminum
Loctite	Loctite
Motor Epoxy	Motor Epoxy
Braycote 602 Grease	Braycote 602 Grease
No Ball Screw or Bearing Seals	No Ball Screw or Bearing Seals
Standard Hardware	Stainless Steel (Vented for blind holes)
No Aerotech Stickers	No Aerotech Stickers

## Join Us at Semicon West 2006!

Aerotech will exhibit our semiconductor and flat panel manufacturing motion control systems and components in Booth 6462 at Semicon West in the Moscone Center, San Francisco, CA, July 11-13. Please join us for a demonstration of our motion control and positioning solutions. For more information on Semicon West 2006, please click [HERE](#). To schedule an appointment with an Aerotech Application Engineer at the show, please click [HERE](#). To view some of our semiconductor market solutions, please click [HERE](#). For information on all of Aerotech's motion control and positioning systems and components, please view our [website](#).



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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

#### 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. Get the PDF [HERE](#).

#### Linear Motors Application Guide

A tutorial guide to the history, design, and application of linear motors. Get the PDF [HERE](#).

#### Consider the "No Touch" Solution

Aerotech's Al Ciez, Manager of the Positioning Systems Division, discusses the benefits of air bearings with Design News' Lawrence D. Maloney. Read the full article [HERE](#).

#### E2E Webcast: Optimal Component Selection for High-Performance Motion Control

The effects of different motor, control, and drive technology on high performance motion control systems is the focus of this webcast. View the webcast [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](#).

### 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>

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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
<a href="#">A3200 Digital Automation Platform</a>	<b>Version 2.16</b>	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
<a href="#">U600 HMI</a>	Version 6.00.136	Windows® HMI
<a href="#">U600 SDK</a>	Version 6.00.136	U600 Software Developers Kit
<a href="#">U600 LIB</a>	Version 6.00.136	Windows® Help File, U600 Libraries and Utilities
<a href="#">U500 PC-Bus-Based Controller</a>	Version 5.22	Windows® HMI and Windows® Help File
<a href="#">U511 Stand-Alone Controller</a>	Version 5.22	Interface Software and Windows® Help File
<a href="#">Soloist Single Axis Controller</a>	Version 2.03	Interface Software and Windows® Help File