

## FEATURES

Precise Triggering of External Events  
Based on Axis Position

Aerotech Accepts EuroAsia IC Industry Award

Motion Control and Positioning Library

Latest Software Releases

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## TRADESHOWS

### 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

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### Diskcon

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Santa Clara, CA

Booth 401

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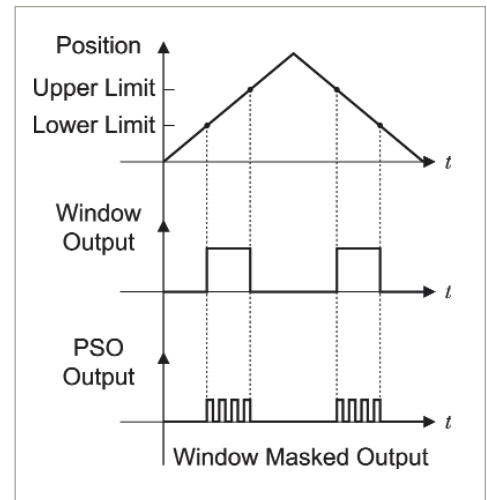
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## Precise Triggering of External Events Based on Axis Position

Design News published the article, "Precise Triggering of External Events Based on Axis Position," which was authored by Aerotech Applications Engineer Brian Cox. The article appeared in the *High Performance Motion Control* Supplement of July 17, 2006, and is available for review on the Design News [website](#).

The article details our high speed, position-based trigger option called Position Synchronized Output (PSO), and how this unique feature can significantly improve part quality, reduce cycle time, and eliminate processing problems in laser cutting or welding applications.

To read the full article, go [HERE](#).



*Windowing coupled with fixed-distance triggering limits triggering to certain areas of travel for improved process control.*

## Aerotech Accepts EuroAsia IC Industry Award

Aerotech's Al Ciez, Division Manager, Positioning Systems Division, accepted the **2006 EuroAsia IC Industry Award for Sub System/Component Provider Improvement** at The Wattis Theatre in the Museum of Modern Art in San Francisco on Wednesday, July 12. The awards ceremony coincided with Semicon West, where the winning WaferMax Z™ was demonstrated to enthusiastic attendees. We'd like to thank everyone who voted for the WaferMax Z™ and, indeed, everyone who participated in the 2006 EuroAsia IC Industry Awards. Look for new semiconductor manufacturing solutions in this newsletter and on the Aerotech [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>	Version 2.16	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