

FEATURES

Motion Solutions for the Semiconductor Industry

Look for Aerotech at Semicon Japan 2007

Aerotech Products "Most Preferred"

Latest Software Releases

Motion Control and Positioning Library

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TRADESHOWS

Semicon Japan 2007

Makuhari Messe
Chiba, Japan
Booth 9B-104
December 5-7, 2007
<http://www.semiconjapan.org>

Photonics West

San Jose Convention Center
San Jose, CA
Booth 1335
January 22-24, 2008
<http://www.spie.org/info/pw>

MD&M West

Anaheim Convention Center
Anaheim, CA
Booth 1797
January 29-31, 2008
<http://www.mdmwest.com>

AEROTECH QUICK LINKS

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[Engineering Reference](#)
[Software & Manual Downloads](#)
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Motion Control Advertisement

Motion Solutions for the Semiconductor Industry

Aerotech has designed and manufactured motion solutions for industries ranging from assembly to test and inspection, and one of our most important markets is semiconductor manufacturing. We've developed a wide array of standard products, custom motion systems, and components and systems with vacuum capabilities to 10^{-7} torr and active cooling, all devoted to improving the semiconductor manufacturing process. We'd like to highlight just a few of these standard products developed specifically for semiconductor manufacturing applications.

MaskAlign 100 is a high-performance photomask-aligning system designed to meet the exacting requirements of advanced semiconductor and flat panel writing systems.

WaferMax T rotary stage was designed for applications that require high performance in a low-height package, such as precision wafer inspection. The WaferMax T won the prestigious **Semiconductor International Editors' Choice Best Product 2007** award.

WaferMax Z is a high precision vertical alignment stage that was developed to function seamlessly both alone, and in tandem with the WaferMax T. The WaferMax Z won the **2006 EuroAsia IC Industry Award**.

These are just a few of our standard products that were developed to provide the semiconductor industry with the highest performance motion solutions. Aerotech also designs and manufactures **custom motion solutions** to specification. Please **CONTACT AEROTECH** for more information on our industry-specific motion solutions.



Look for Aerotech at Semicon Japan 2007

Aerotech will introduce our Japanese subsidiary, and Director Tadashi Imai, at **Semicon Japan 2007** in Booth 9B-104. Please be our guest and get a personal demonstration of our wide assortment of standard and custom motion products, including the **ABL1000** air-bearing linear stages, the **ABRS-200MP** rotary air-bearing stage, the **Automation 3200** 1-32 axis motion, vision, PLC, robotics, and I/O platform, and much more. We hope to see you there!

SEMICON[®]
Japan2007



Tadashi Imai is the Managing Director of Aerotech K.K.

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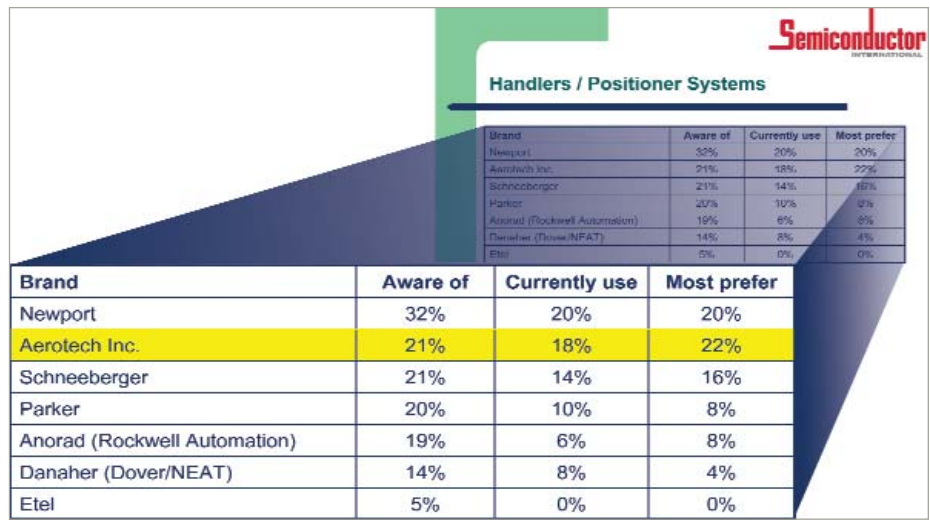
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Aerotech Products "Most Preferred"

A recent *Semiconductor International* Brand Study of semiconductor industry professionals who have purchasing authority for "Handlers/Positioning Systems" concluded that Aerotech products were "Most Preferred." We'd like to thank the respondents for their vote of confidence, and we will continue to live up to and exceed the high expectations of our customers in the semiconductor manufacturing industry.



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 2.19 | Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files |
| Soloist Single-Axis Controller | Version 2.07.000 | Development Tools, Libraries, Help Files, and Manuals |
| Ensemble Multi-Axis Controller | Version 1.01.002 | 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

Machine Vision Speeds PCB Solder-Joint Inspection

The system combines servo motion, continuity testing, and solder-joint inspection in one unit for processing of automotive connectors. 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](#)

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>