

## FEATURES

SolarScribe Photovoltaic System Solutions

Discounted Clearance Items

Latest Software Releases

Motion Control and Positioning Library

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### Machine Building Drives & Automation

National Expo Centre  
Birmingham, UK  
Booth 2000  
February 13-14, 2008  
<http://www.devicelink.com/expo/macbuild08/index.html>

### Advanced Litho

San Jose Convention Center  
San Jose, CA  
Booth 2009  
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### LASYS

Stuttgart Trade Fair Centre  
Stuttgart, Germany  
Booth 4B18  
March 4-6, 2008  
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## SolarScribe Photovoltaic System Solutions

The SolarScribe family of highly integrated electromechanical automation systems directly address the needs of the growing photovoltaic/solar panel scribing market. They have been configured for maximum flexibility by offering both air- and mechanical-bearing options, as well as split axis and gantry configurations.

All SolarScribe system design elements have been optimized to provide maximum throughput while maintaining tight control of geometric characteristics like dynamic straightness. In addition, because each customer and solar technology application has its own set of requirements, Aerotech has designed SolarScribe systems to include options like multi-head scan axes, Z and theta correction axes, and machine base/isolation systems.

Advanced system control is provided by Aerotech's [Automation 3200](#) control platform. The A3200 is a 100% digital system with high performance networked drives. With this fully digital architecture, it is possible to optimize the current, velocity, and position servo loops for maximum performance. Advanced trajectory generation capabilities, such as multi-block look ahead, minimize dynamic errors while our Position Synchronized Laser Firing Output (PSO) functionality automatically adjusts the laser pulse frequency to match the current scribing speed, providing an additional throughput boost.

Please [GO HERE](#) for more information on the SolarScribe series.

Please [GO HERE](#) to discuss your application with an Aerotech Application Engineer.



*SolarScribe-SA with optional machine base and isolation system.*



*SolarScribe-GM with optional dual-carriage step axis, control cabinet, and isolation system.*



*SolarScribe-SM with optional dual-carriage step axis.*



*SolarScribe-GA.*

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## Discounted Clearance Items

Get great deals on surplus products, demo equipment, or discontinued parts and components. Current offerings include:

- Brushless, brush, and stepping motors
- Linear, rotary, and vertical lift stages
- Motion controllers
- Servo amplifiers (PWM and linear)



*The ALS1000XY stage system features direct-drive linear motors for ultra-precise motion.*

**Feature of the Month:** Complete, never-used, [ALS1000XY](#) stage system with 150 mm travel on both axes. This system is highly-discounted and available on a first come, first served basis. [CONTACT US](#) for complete information.

Please [GO HERE](#) to browse our other Clearance Items.

## 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 2.19	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
<a href="#">Soloist Single-Axis Controller</a>	<b>Version 2.09.000</b>	Development Tools, Libraries, Help Files, and Manuals
<a href="#">Ensemble Multi-Axis Controller</a>	Version 1.01.002	Development Tools, Libraries, Help Files, and Manuals
<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

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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

#### How to Select and Install Air Bearing Stages

High-precision test, measurement, and manufacturing operations often require smooth, frictionless, low-maintenance motion control systems. An excellent choice for a complete motion subsystem is a linear or rotary stage that uses an air bearing for guidance, coupled to a direct-drive motor, a high-resolution position encoder, and a digital controller. Read the full article [HERE](#).

#### Micropositioning Meets Mechatronics

Compared to traditional methods, the mechatronic design approach is more of a holistic approach to product design, where the tradeoffs between different functional components (software, hardware, user interface, etc.) are carefully considered for their impact on overall performance. 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>