

FEATURES

Synchronized Scanner and Servo Motion

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Latest Software Releases

Motion Control and Positioning Library

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TRADESHOWS

Pack Expo 2008
McCormick Place
Chicago, IL
Booth E-6636
November 9-13, 2008
<http://www.packexpo.com>

Precisiebeurs
NH Koningshof Hotel
Veldhoven, Netherlands
Booth 25
November 26-27, 2008
<http://www.precisiebeurs.nl/>

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Chiba, Japan
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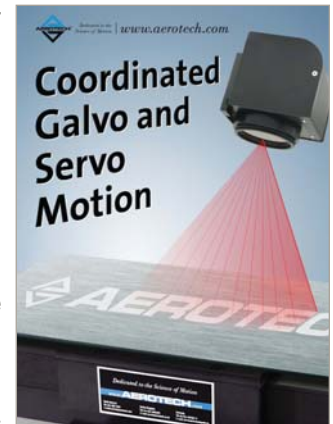
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Another Aerotech First... Synchronize Your Scanner and Servo Motion!

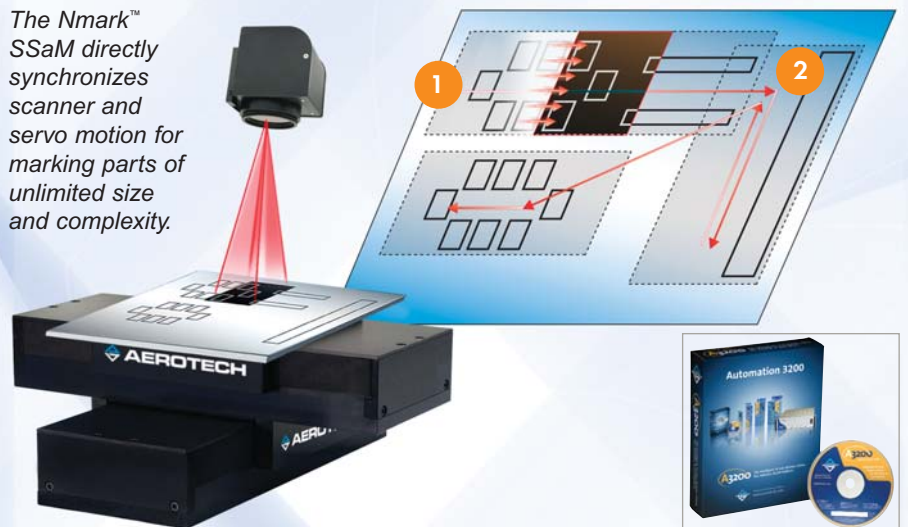
Aerotech's Nmark™ SSaM synchronized scanner and motion module for the Automation 3200 motion platform directly synchronizes scanner and servo motion for marking parts of unlimited size and complexity.

Scanners have been used with servo axes to mark objects that exceed the operating envelope of the scanner. Applications were previously implemented using a move and expose sequence where the scanner would mark the part and the servo would reposition the part for a subsequent marking operation. This approach has limitations when a feature being marked exceeds the field of view of the scanner. Small angular and linear offsets in the servo axes produce discontinuities in the features that cross the boundary between adjacent marking fields. By combining the servo and scanner control into a single platform, it is now possible to mark large features by combining continuous motion of the servo axis with simultaneous marking by the scanner. In addition, scanner motion can be combined with rotary axis motion to mark on the face or edge of cylindrical profiles.

Please [GO HERE](#) to view or download the Nmark SSaM brochure, or [HERE](#) to view or download the Nmark SSaM data sheet, or [HERE](#) to discuss your motion application with an Aerotech Application Engineer.



The Nmark™ SSaM directly synchronizes scanner and servo motion for marking parts of unlimited size and complexity.



- 1 Dynamic field of view movement allows marking of non-repetitive patterns over large areas, greatly expanding the scanner operating envelope.
- 2 Continuous marking of long objects through combined servo and scanner motion eliminates line breaks that can occur when stitching together adjacent marking fields.

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Visit Aerotech at Pack Expo 2008

We invite you to visit Aerotech at Pack Expo 2008 held at McCormick Place in Chicago, Illinois, November 9-13.

Aerotech will showcase our motion controllers, including the EtherNet/IP™ Conformance Tested Ensemble and Soloist motion controllers. The Aerotech EtherNet/IP™ interface enables

AB PLCs (MicroLogix, CompactLogix™, or ControlLogix) to be integrated directly with the Ensemble or Soloist. Motion can be directly programmed in the RSLogix™ 5000 environment or separate programs can be written on the controller and triggered from the AB PLC.



View more information about the show at the [Pack Expo 2008](http://Pack Expo 2008 website) website. Please contact us if you would like to schedule an appointment with an Aerotech Application Engineer.

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 2.21.003	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® GUI, Windows Help Files
Soloist Single-Axis Controller	Version 2.51.000	Development Tools, Libraries, Help Files, and Manuals
Ensemble Multi-Axis Controller	Version 2.51.000	Development Tools, Libraries, Help Files, and Manuals
U600 GUI	Version 6.00.136	Windows® GUI
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® GUI 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

The Need for Speed

Packaging OEMs look to advanced software solutions and linear servos to boost system performance. For more information on this article, click [HERE](#).

Resolution Resolved

System or stage resolution is often spelled out for motion controls as well as in vendor catalogs and website specifications. However, many misinterpret what the term truly means. For more information on this article, click [HERE](#).

Linear Motor Basics

Linear motors continue to increase in industrial applications. This article provides an overview of the linear motor types available. Read the full article [HERE](#).

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](#).

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](#).

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