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Motion Control Requirements for Hermetic Seam Welding

This is an excerpt from an article, written by Aerotech's Ron Rekowski, that appeared in the June 2007 issue of Today's Medical Developments.

A hermetic seal is defined as an airtight interface, a critical requirement to protect patients from a potential source of infection throughout the lifetime of implantable electronic medical devices. The application of the seal around the periphery of the package is a critical task that has been limited by the capability of the motion control platform.

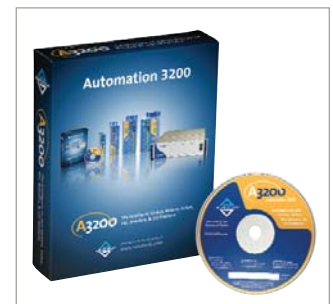
An approach similar to the robotic control technique can be applied to the hermetic seam-welding application. Advances in control technology show great promise in reducing the programming complexity and weld cycle times while improving the quality of the hermetic seal.

Please [GO HERE](#) if you would like to view the entire article.

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



An Aerotech XI/Y/theta system for use in laser seam welding.



Aerotech's Automation 3200 motion controller.

Visit Aerotech at Diskcon 2007

Aerotech will exhibit our motion control and positioning systems and components in Booth 201 at [Diskcon 2007](#) in Santa Clara, CA, from September 19-20. Aerotech's innovative, industry-leading motion and position control technologies achieve a competitive advantage for our customers, providing a solution for their most demanding component manufacturing, assembly and testing, and research and development applications. As areal densities and data rates have increased, Aerotech has responded by offering motion and position control solutions with sub-arc-second rotary and nanometer-level linear precision — while maintaining the 24/7 operational reliability vital to success in today's industry. Industry-specific features like ESD protection and cleanroom capabilities are available.



Please join us for a demonstration at [Diskcon 2007](#), or [schedule](#) an appointment with an Aerotech Application Engineer at the show. For information on all of Aerotech's motion control and positioning systems and components, please view our [website](#).

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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)



Please [GO HERE](#) to browse our 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 |
|---|---------------------|---|
| A3200 Digital Automation Platform | Version 2.19 | Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files |
| 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 5.23 | Windows® HMI and Windows® Help File |
| U511 Stand-Alone Controller | Version 5.22 | Interface Software and Windows® Help File |
| Soloist Single Axis Controller | Version 2.06 | Interface Software and Windows® Help File |
| Ensemble | Version 1.00 | Please contact Aerotech for more information. |

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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

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](#).

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. Read the full article [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>