

FEATURES

Aerotech S-Series Torque Motors

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Motion Control and Positioning Library

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TRADESHOWS

Medtec Ireland

Radisson SAS Hotel

Galway, Ireland

Stand 412

September 20-21, 2006

<http://www.deviceink.com/expo/medtire06/>

Medical Design & Device Expo

Santa Clara Convention Center

Santa Clara, CA

Booth 315

September 22, 2006

<http://www.mdshowcase.com>

NanoTX

Dallas Convention Center

Dallas, TX

Booth 6063A

September 27-28, 2006

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Aerotech S-Series Brushless, Frameless Torque Motors — Are They Right for Your Application?

S-series motors are Aerotech's high-performance brushless, frameless torque motors that feature neodymium iron boron magnets for maximum torque and acceleration in a compact assembly. The S-series utilizes a slotless stator design and high pole-count rotor to provide zero cogging for applications requiring exceptional velocity stability. The laminations contain no slots, eliminating torque ripple and cogging torque that produces velocity disturbance. These motors are well-suited for direct-drive applications such as printing and scanning where velocity ripple cannot be tolerated.



The S-series is available in five frame sizes to fit virtually any application.

Wide Range of Output Torque and Sizes

The S-series covers a wide range of torque and package sizes. Continuous torque ranges from 0.20 N-m to 29.09 N-m, while peak torque ranges from 0.82 N-m to 116.37 N-m. The open design of S-series motors allows for custom winding or mechanical variations to meet any application need.

S-series motors are designed for applications in OEM machines. The S-50 (50-mm diameter) motor is ideal for small, tight spaces such as spindles or small feed rolls while the S-240 (240 mm diameter) can accelerate large print drums or precision positioning tables. There are three other diameters (76 mm, 130 mm, 180 mm) that round-out the motor series.

S-Series Motor Benefits

- Slotless, brushless ring motors with high torque output and zero cogging
- Frameless design for easy integration into OEM machines
- Various winding options available
- Include Hall effect sensors for commutation

You can view complete S-series specifications [HERE](#).

Please send our Application Engineers a [MESSAGE](#) if you'd like to discuss your application.

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See Aerotech at the Medical Design & Device Expo in Santa Clara, CA



Aerotech's Ron Rekowski will present "Fundamentals of Motion Control" at the Medical Design & Device Expo at the Santa Clara Convention Center, Santa Clara, CA, September 22, 2006. We invite you to join us for Ron's presentation, as well as to discuss your medical motion control questions with Ron at Booth 315.

For more information on the Medical Design & Device Expo, please go [HERE](#).

To set an appointment with Ron or for help from our Application Engineers, please send us an [e-mail](#).

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 2.16	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 5.22	Windows® HMI and Windows® Help File
U511 Stand-Alone Controller	Version 5.22	Interface Software and Windows® Help File
Soloist Single Axis Controller	Version 2.04	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

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, and how any application that requires precise data acquisition or process action linked to axis position can benefit from it. Read the full article [HERE](#).

Laser Machining for Medical Applications

High performance laser machining centers benefit from advances in motion control and positioning technology. 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 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](#).

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>