

## FEATURES

Economical Linear Stages

Latest Software Releases

Motion Control and Positioning Library

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## Economical Linear Stages are the Answer to Cost-Sensitive Applications

Aerotech's [ATS115](#) and [ATS165](#) linear stages provide an economical solution for cost-sensitive applications.

The ATS115 is Aerotech's smallest hard cover, side-sealed stage design. Competitive pricing coupled with Aerotech's reputation for producing high-quality linear motion devices make the ATS115 an attractive stage for medium-performance applications.

The ATS165 is a medium performance, entry-level linear stage. It is similar in design to the ATS115 series, providing additional load carrying capability with larger bearings and a wider cross-section.

Both of these linear stages have a hard cover to provide protection from debris. The robust aluminum cover is hard-coated providing a scratch resistant surface. In addition, each stage features side seals to keep dirt and particulates out of the stage and protect the bearing surfaces from contamination. The vertical orientation of the seals easily deflects debris away from the stage. The tabletop can be outfitted with an optional brush assembly to remove any particles that collect on the hard cover.

[CLICK HERE](#) for more information on the ATS115.

[CLICK HERE](#) for more information on the ATS165.

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



ATS115



ATS165

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## 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>	<b>Version 2.18</b>	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
<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
<a href="#">Soloist Single Axis Controller</a>	<b>Version 2.05</b>	Interface Software and Windows® Help File
<a href="#">Ensemble</a>	<b>Version 1.00</b>	<b>Please contact Aerotech for more information.</b>

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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

### **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](#).

### **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. 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>