

## FEATURES

3D Solid Models for the Ensemble™, Soloist™, and Ndrive®

Latest Software Releases

Motion Control and Positioning Library

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## 3D Solid Models Available for the Ensemble™, Soloist™, and Ndrive®

Aerotech has recently made available 3D models of our entire family of Ensemble™ networked panel-mount drives, Soloist™ single-axis servo controllers, and Ndrive® high-performance digital servo amplifiers.

The Ensemble™ family (CP, MP, CL) allows the user to network multiple drives for up to ten axes of coordinated motion, and to seamlessly mix and match amplifier (linear or PWM) and motor types (brush, brushless, or stepper) within the same positioning system using a common programming and control platform. High-accuracy linear motor air-bearings can be directed from the same controller that is running lower precision drives with servo or stepper motors. Each drive can be reconfigured to accept different motors and feedback devices, allowing customers to adapt to changing system needs. Optional on-board encoder interpolation provides programmable axis resolution, including the ability to change interpolation (multiplication) values through software.

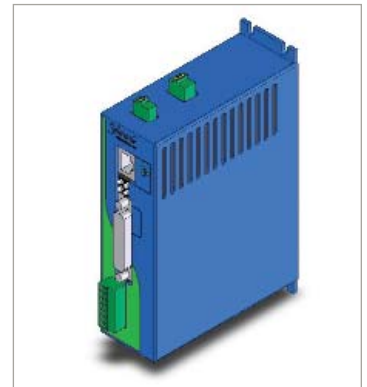
Aerotech's Soloist™ single-axis servo controllers combine a power supply, amplifier, and position controller in a single package. The Soloist™ can control up to four tasks simultaneously, as well as handle variables and manage I/O, which allows it to perform demanding production applications. The Soloist™ also has high-speed position latch inputs and advanced data logging capabilities, making it ideal for laboratory and test instrument applications.

The Ndrive® family of digital servo amplifiers (HP, HL, CP, CL, MP) are the high performance discrete drive options for the Automation 3200 motion system. Capable of driving brushless and DC brush-type servomotors, and stepper motors, the Ndrive amplifiers perform both current loop and servo loop closure to ensure the highest level of positioning performance and rate stability.

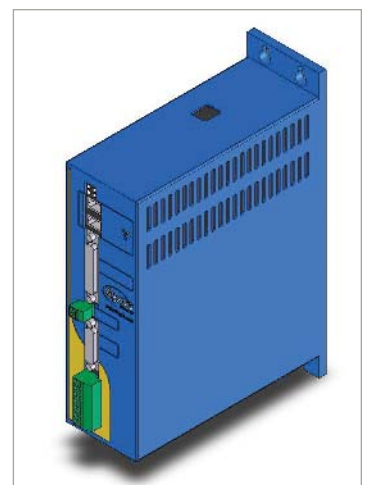
The availability of solid models, downloadable in your own native CAD format, allows you to



Ensemble™ CL



Soloist™ MP



Ndrive® CP

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easily incorporate these high-performance products into your new or existing design.

To download a solid model, [CLICK HERE](#).

[CLICK HERE](#) for more information on the Ensemble™ series.

[CLICK HERE](#) for more information on the Soloist™ series.

[CLICK HERE](#) for more information on the Ndrive® series.

Having trouble with the way our e-newsletter is displayed, or not receiving every issue? The constant fight against SPAM may have necessitated a change in your organization's SPAM filter. Ask your IT department to add our IP address to the white list/safe list.

## 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 2.17	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>	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

### Two-Photon Polymerization: A New Approach to Micromachining

Femtosecond lasers enable microfabrication with resolution beyond the diffraction limit. Read the full article [HERE](#).

### Tackling the Automation Challenge

Automation in the medical device industry continues to grow at a very healthy pace. This article discusses the reasons for this growth, the areas in which this growth is taking place, as well as Aerotech's contribution to this trend. Read the full article [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](#).

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## 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>