TAKE CONTROL
WITH AUTOMATION1

UNLOCK THE POWER OF PRECISION.

→ **Automation1®— the world's most user-friendly motion control platform** — can help reduce your set up time from days to minutes. It's also highly flexible, so you can work the way you want and need for your most demanding precision motion applications.

The Automation1 motion control platform includes:

Software-Based Machine Controller (iSMC)

The iSMC runs on a real-time operating system, generates 20 kHz servo motor trajectories and 100 kHz galvo scan head trajectories, and enables custom machine interfaces that work with application programming interfaces (APIs) from other vendors.

AUTOMATION1 iSMC

Motion Development Kit (MDK)

The MDK reduces system setup time, allows users to develop advanced programs with the modern AeroScript programming language and deploys custom user interfaces for Windows and Linux PCs.

HyperWire® Motion Control Bus

Fiber-optic and light-based, HyperWire enables 20 times the throughput possible with 100 BASE-T Ethernet. The bus simultaneously connects the iSMC to multiple servo motor and galvo scan head drives.Each drive can transmit data at peak capacity even when the bus is fully populated.

Intelligent Industrial PC (iPC)

The iSMC is installed on the Automation1 iPC or other qualified industrial PCs. Alternatively, the controller can be installed directly on a servo motor drive.
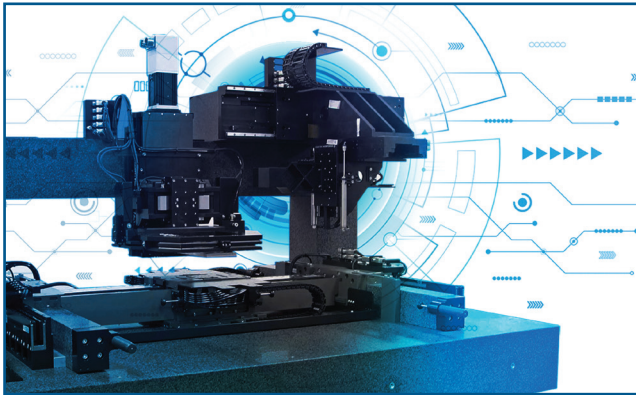
Drives and Controls

A complete range of Automation1 drives is available and compatible with virtually any type of hardware or motor.

Drives for Servo and Stepper Motors

Drives are available for a wide range of servo and stepper motors.
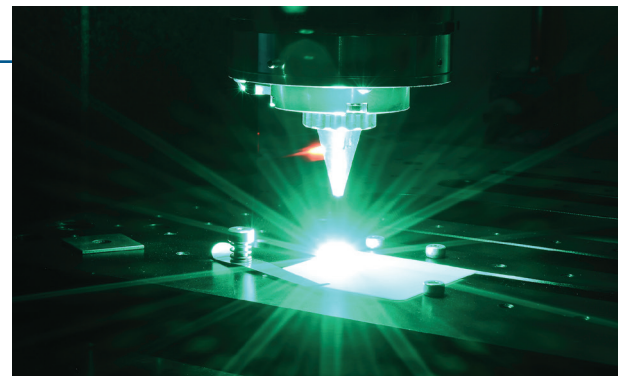
Drives for Precision Mechanics

Single-axis and multi-axis drives are available to control virtually all precision mechanics, including:

- Linear stages
- Rotary stages
- Spindles
- Actuators
- XY stages

- Hexapods
- Gantries
- Goniometers
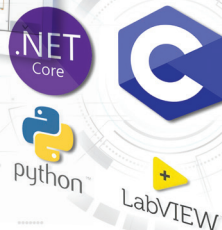- Gimbals
- Split bridge systems

Drives for Laser Systems

Faster lasers require faster motion.The Automation1 GL4 galvo scan head controller is the industry's fastest controller of galvanometer motors. The GL4 drives Aerotech's two-dimensional and three-dimensional scan heads as well as five-axis laser micromachining systems.

Custom Control Interfaces

MachineApps lets you quickly and easily develop a custom user interface for your machine or motion system. Deploy your brand and enable access control with our tools. Need more? Get more control over your customization using the .NET, C, or Python API. LabVIEW and EPICS drivers are available for integration to data collection systems and scientific instruments.

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