

Integrated Automation Systems

Your Complete Automation Partner

1

**BROAD APPLICATION
EXPERTISE**



2


**ADVANCED AUTOMATION
CAPABILITIES**



3

**WORLDWIDE
SUPPORT**





➔ You know our motion **produces the best results.**
Now trust us to automate your process.

When high-performance motion is at the core of your process, our expertise will get your custom automation system up and running faster and more reliably than the competition.

From research to development to production, we can supplement your team in virtually any capacity to accommodate your custom automation system requirements.

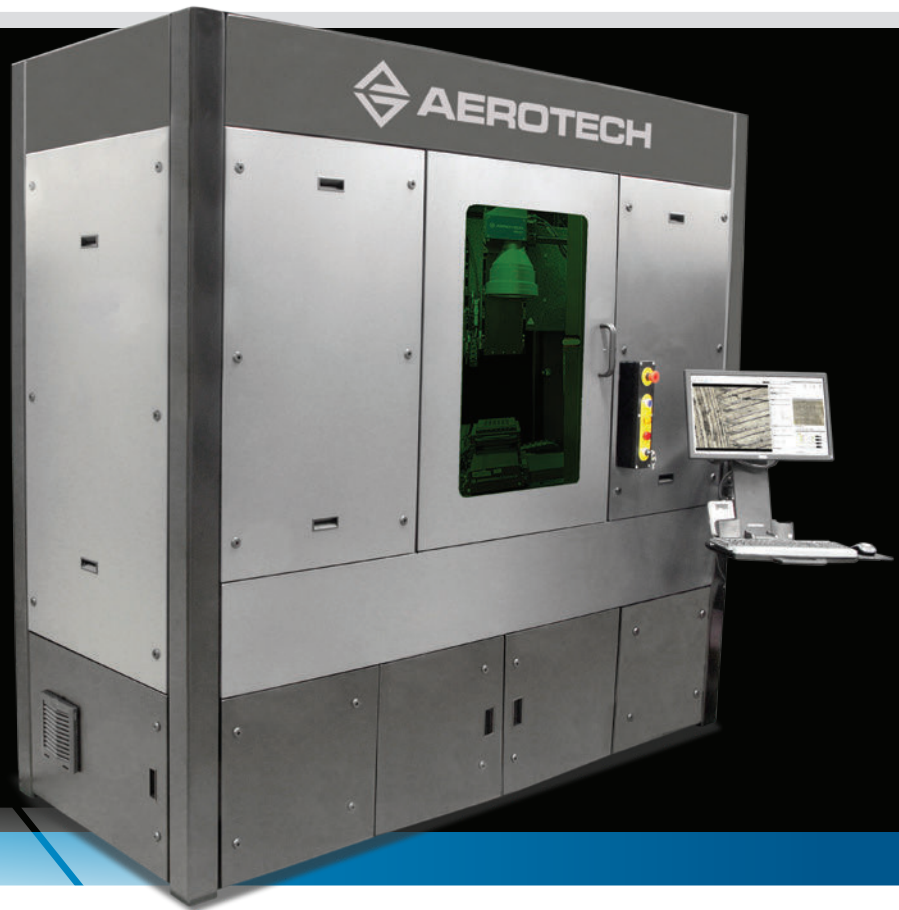
Whether you lead portions of a build process yourself or you want a complete, turnkey machine, we have the scalable manufacturing capabilities to meet your needs.

- 1 From laser processing to precision metrology and dispensing applications, our **broad application expertise** ensures your process success.
- 2 From part handling to machine vision and customized operator interfaces, we'll bring **advanced automation capabilities** to your purpose-built solution.
- 3 With technical support staff **all over the world**, we're here — and there — when you need us.

OUR INTEGRATION CAPABILITIES



We combine **precision application experience, machine design capabilities and process tool acumen** to deliver the most advanced automation systems available.



MACHINE DESIGN CAPABILITIES

- Structural Design
- Machine Frames
- Vibration Isolation
- Safety Enclosures

PANEL WORK CAPABILITIES

- Electrical
- Pneumatics
- I/O & Safety

APPLICATION EXPERTISE

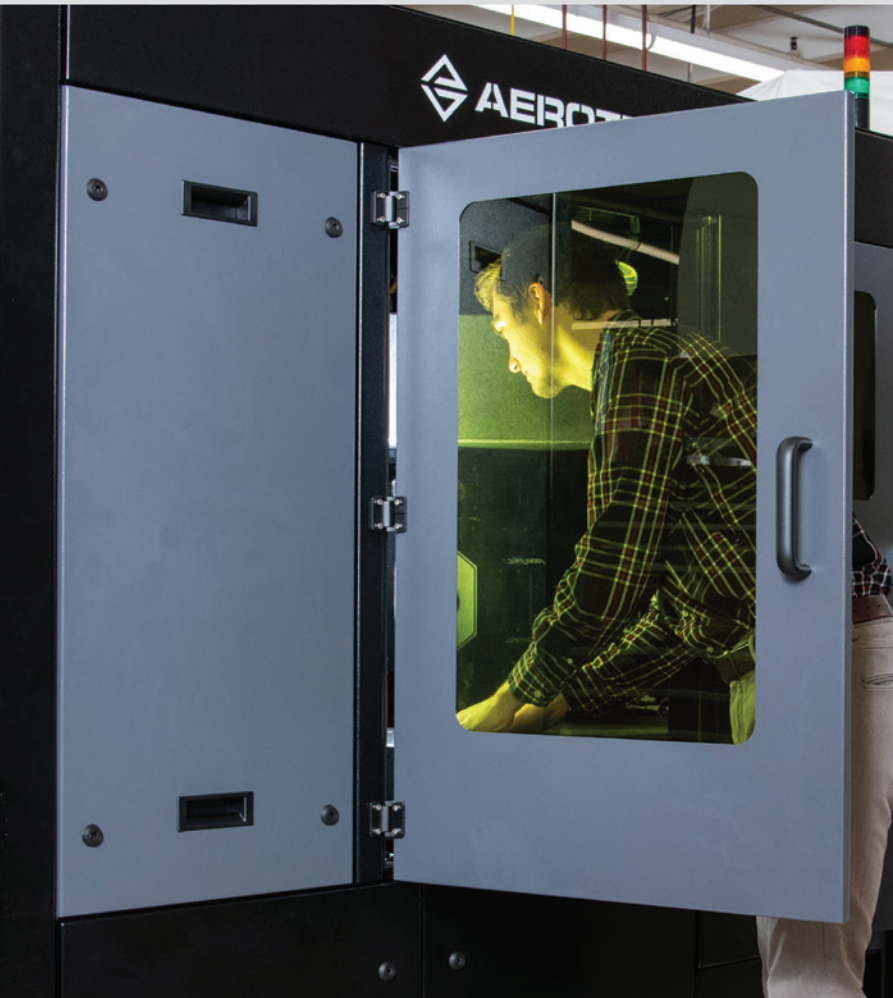
- Laser Processing
- Metrology & Defect Measurement
- Precision Assembly & Dispensing

PROCESS TOOL EXPERIENCE

- Laser Heads & Galvo Scanners
- Microscopes & Metrology Sensors
- Machine Vision
- Dispense Heads

OUR AUTOMATION CAPABILITIES

Our application and system engineering experts have **decades of experience automating manufacturing** and inspection processes across a wide range of industries.



- ◆ **PART HANDLING**
Robots, conveyors & part trays
- ◆ **PART REGISTRATION & BARCODE SCANNING**
Automatic part programming based on serialization
- ◆ **MACHINE VISION & COORDINATE INITIALIZATION**
Cameras, 3D laser scanners & distance sensors for motion initialization
- ◆ **AUTOMATED PROGRAMMABLE ROUTINES**
Process & motion programming development by automation experts
- ◆ **CUSTOMIZED HUMAN-MACHINE & OPERATOR INTERFACES**
Software user interface programming & customization

SAFETY & MACHINE STANDARDS COMPLIANCE

PRECISION MACHINING AND ASSEMBLY CENTERS

LASER PROCESSING MACHINES



MACHINERY SAFETY PROTOCOLS

We comply with all applicable machine safety protocols including:

- IEC
- ISO
- US FDA & CDRH CFR



ELECTRICAL SAFETY PROTOCOLS

All electrical equipment is designed and tested to satisfy protocols including:

- NFPA
- UL
- CE

LASER SAFETY PROTOCOLS

All laser processing tools comply with and are registered under protocols including:

- IEC
- ISO
- US FDA & CDRH CFR

SUPPORT WHERE & WHEN YOU NEED IT



SCALE FROM PROTOTYPE TO PRODUCTION

Our integrated automation systems help get your product to market quickly with the throughput and quality that you and your customers require.

MINIMIZE TECHNICAL RISK

With more than 50 years of experience, we understand—and produce—the many components that must work together seamlessly in your automation system.

GLOBAL RESOURCES

With six full-service locations around the world, technical staff is available in nearly every time zone with local language support.

AVAILABLE EXPERT RESOURCES

- Project management
- System design & manufacturing support
- Motion & application support
- Software & automation programming
- Lab process development



WORLDWIDE FULL-SERVICE LOCATIONS

Global Headquarters (United States)

Aerotech Inc.

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Pittsburgh, Pa. 15238-2811
+1-412-963-7470

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Aerotech Limited

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Germany

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