Advanced Products and Solutions for
Electronic Component Manufacturing

Resistance Welding | Laser Welding | Laser Marking | Laser Cutting | Systems
Hot Bar Bonding | Hermetic Sealing

Improving Electronic Component Manufacturing Through Design and Innovation
Laser Markers & Systems
Yb:Fiber, Nd:YVO4, CO2, and UV systems for laser marking, etching, engraving, deep engraving, ablation, annealing, foaming, and bleaching. May also be used for low volume precision cutting. 5 to 100W power.

Laser Cutting Systems
Fine laser cutting systems for high speed precision cutting of thin metals. Fully integrated with up to 5 axes of motion. Up to 1kW power.

Laser Welders & Systems
Yb:Fiber and pulsed Nd:YAG lasers for industrial spot and seam welding of metals. Welding systems include multiple axes of motion, vision, gas flow, and user friendly GUI. Up to 1kW power.

Resistance Welders
Equipment for resistance spot and seam welding applications weld controls, manual, pneumatic, and motorized weld heads, pincer weld heads, weld monitors, weld checkers, wire compactors. 5A to 150,000A secondary output.

Gloveboxes & Hermetic Sealing Systems
Gloveboxes, dry boxes, vacuum bakeout ovens, seam sealers, lid placement and sealing, and projection welding systems for manufacturing.

Hot Bar Reflow Soldering & Bonding Systems
Power supplies, heads, desktop systems, semi-automated systems, for reflow soldering, hot bar bonding, heat staking, lcd and repair.

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The fine control featured in Miyachi Unitek’s resistance and laser welding technologies is well suited to electronic component manufacturing applications requiring precision, low heat input, and low (or no) force welding solutions.

The high speed, non-contact clean laser marking or laser engraving process is well suited to high quality direct part marking on ever decreasing component sizes.

Common applications include hard drive read/write armatures, hard disk assemblies, electrical connectors, lead frame assemblies, relay terminal connections, batteries, and more.
Miyachi Unitek’s broad range of technologies, products, and systems makes it possible for us to provide complete solutions for both simple and complex manufacturing challenges. The path to solving even your most difficult materials processing needs begins with our technical sales experts. Working with our applications engineers, our broad, experienced team offers insightful feedback on process feasibility and part design to maximize production reliability. Application/sample qualification in our labs helps you determine the best choice of equipment for a robust, production-ready process. If a system is needed, our team of system engineers with expertise in motion, tooling, vision and software deliver smart and innovative solutions tailored to functional requirements and budget.

1. Process Assessment
2. Sample/Application Qualification
3. Equipment Specification
4. Product and System Assembly
5. Test and Verification
6. Installation, Training & Support

Miyachi Unitek is completely invested in your success - we stand behind each and every product we offer with comprehensive customer care starting at the first contact and continuing through the entire life of the product. Beyond our 24/7 customer support we offer training and application support across our product range for your current and future manufacturing needs.
Value Added Services

Training

- Customized equipment and process training
- In house
- At your facility

24/7 Field Service

- 24/7 Repairs & Service
- 1-866-751-7378

Application Support

- Application and process development
- Material selection evaluation
- Part design review
- Solutions for specific market sectors
- On-site production support

Laser Preventative Maintenance (PM) Programs

Custom-tailored preventive maintenance contracts cover all or some of the following:

- Regular, scheduled replacement of flashlamps
- Routine optics check
- Regular replacement of filters
- Ensure safety interlocks are functioning properly
- Review laser safety procedures with your team
- Provide ongoing and refresher training

Factory Service & Calibration

Benefits of sending your equipment to Miyachi Unitek for calibration include:

- Calibration equipment is traceable to NIST standards
- Personnel are trained in both calibration and repair of products
- Calibration is done using specific written procedures designed for a particular piece of equipment
- Repair materials are kept in stock for quick delivery
- Service is guaranteed