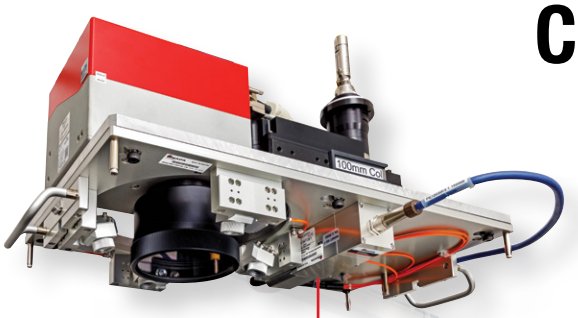
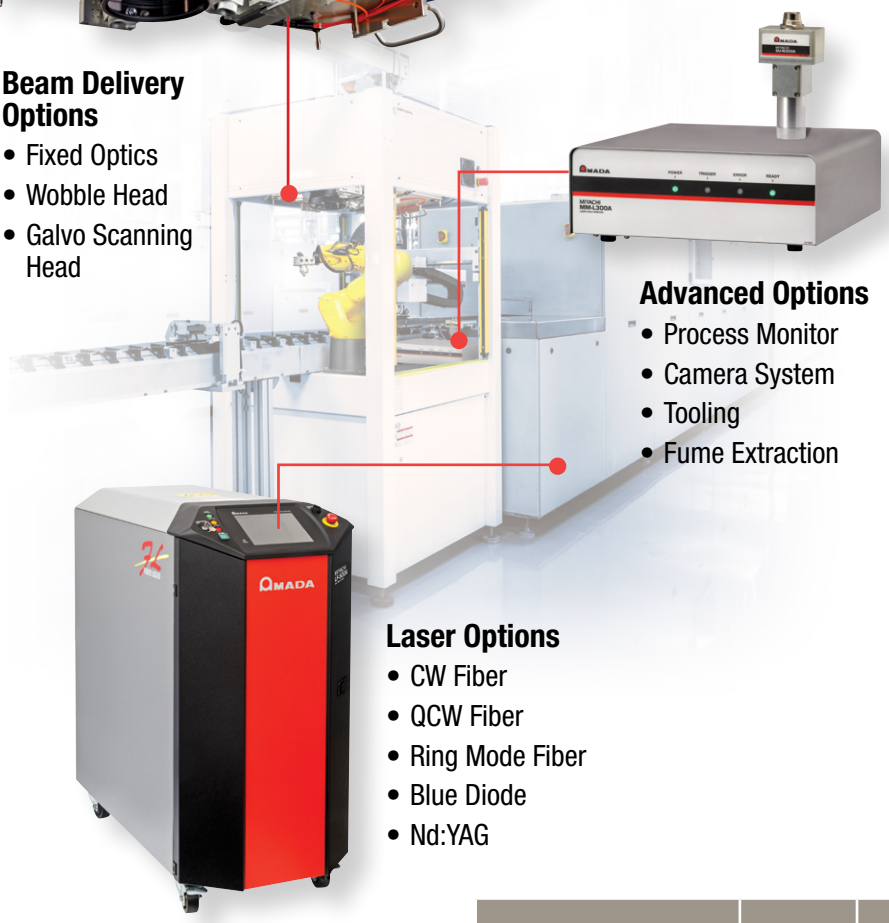
Components, Subsystems, and Integrator Packages for Laser Welding





Beam Delivery Options
- Fixed Optics
- Wobble Head
- Galvo Scanning Head

Advanced Options
- Process Monitor
- Camera System
- Tooling
- Fume Extraction

Laser Options
- CW Fiber
- QCW Fiber
- Ring Mode Fiber
- Blue Diode
- Nd:YAG

AMADA WELD TECH offers a range of ready-to integrate components that feature built-in factory communications to simplify integration. Various levels of complexity are available: select the right combination for the specific application. This allows you to focus on further automation processes. AMADA WELD TECH will process the sample parts and provide starting settings for the process.

- Process-focused product solutions
- Use as standalone - or build into a production line
- AMADA WELD TECH process knowledge of laser welding

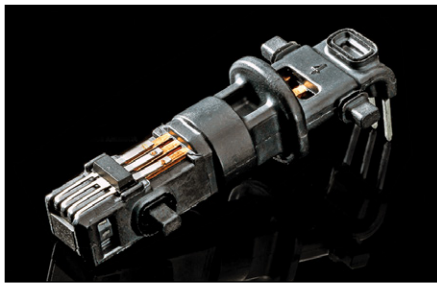
BENEFITS
- Solutions to shorten build time allowing you to focus on other aspects of production
- Lower development costs to integrate complicated components
- Robust, industry-tested platform reduces project risk
- Includes standard communication protocols to ease installation into production lines
- Enables data collection on system performance and processing

Packages	Subsystem	Vision	Monitor	Galvo	Laser
Tier V	●	●	●	●	●
Tier IV		●	●	●	●
Tier III			●	●	●
Tier II				●	●
Tier I					●

TYPICAL APPLICATION



Tab to post - prismatic batteries



Terminal welding - sensors

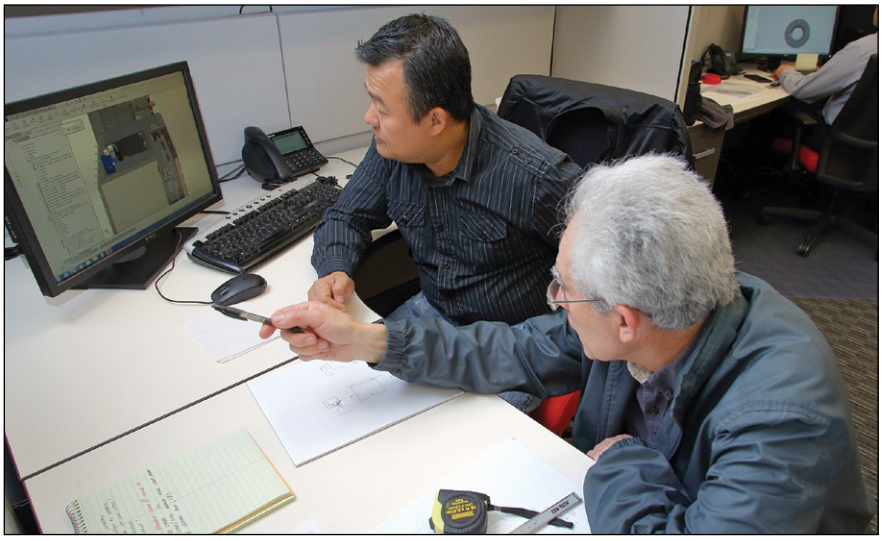


Package sealing - implantable devices

Typical Industry / Application Configurations*

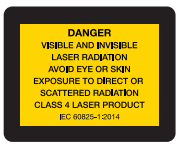
	Medical Device	Battery	Automotive	Electronics
Laser	CW or QCW fiber laser, single mode, or Nd:YAG (IR and Green) laser, up to 500 W	CW fiber laser, single mode up to 2 kW	CW and Ring Mode fiber laser up to 6 kW	Nd:YAG (IR and Green), blue diode laser, QCW fiber laser
Focus Head options	Fixed or galvo scanning	Galvo scanning	Galvo scanning	Fixed or galvo scanning
Monitoring	Yes	Yes	Yes	Yes
Vision	Optional	Yes	Yes	Optional
Height Sensor	N/A	Yes	N/A	N/A
Robotics	N/A	Optional	Optional	Optional

*These solutions are provided as Class 4 laser systems. Proper integration is required for laser-safe operation. AMADA WELD TECH has a full range of standard and custom systems designed for specific manufacturing processes. Other configurations available upon request.



Benefits of working with AMADA WELD TECH

- Application expertise
- 75-year track record
- 24/7 global service and support
- Dedicated development resources





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