



# Laser Welding

AMADA WELD TECH offers a complete range of laser welding solutions. Laser welding is a non-contact process, which requires access to the weld zone from only one side of the parts being welded. The laser weld is formed as the intense laser light rapidly heats the material - typically calculated in milliseconds. As laser welding is a non-contact process, a great number of joint geometries can be welded. Laser welders can join a wide range of steels, nickel alloys, titanium, aluminium, and copper. They are ideal for applications where the components would deform under mechanical pressure.

Our laser welding systems provide very high production volumes at a low cost per weld and very accurate part positioning, even after welding. Laser Welders also provide extremely high-quality seam-welds for sealing critical electronics packages, such as those used for pacemakers. The most significant requirement is that there must be a close fit at the joint interfaces.



## Methods

Laser welding is frequently used in high volume applications, such as in the automotive and medical industries. AMADA WELD TECH supplies a wide range of high-quality, industrial proven lasers for the following processes:

- [Fiber Laser Welding](#) [1]
- [Laser Spot Welding](#) [2]
- [Laser Seam Welding](#) [3]
- [Green Laser Welding](#) [4]

## Products



[Yb:Fiber Laser Welders - 1070nm](#)

- [LF Series - 160-1000W Yb:Fiber Laser Welders](#)
- [ML-6500C - 300 W Fiber Laser Welder](#)
- [ML-6700B - 500W Fiber Laser Welder](#)
- [ML-6810B - 1000-1200W Fiber Laser Welder](#)
- [ML-69B Series - 2000 W - 5000 W Fiber Laser Welder](#)

[5]



## Laser Welding Systems

- [Jupiter Glovebox Laser Welding System for Medical Implantable Devices \(MID's\)](#)
- [Jupiter Laser Welding System for battery tab welding](#)
- [Jupiter Advanced Laser Welding System for medical device welding](#)
- [Jupiter Advanced Laser Welding System](#)

[6]



## YAG Laser Welders - 1064nm

- [YAG Laser Welders 500W-600W](#)
- [YAG Laser Welders 300W-400W](#)
- [YAG Laser Welders 50W - 150W](#)
- [YAG Laser Welders 7W - 25W](#)

[7]



## Laser Welder Modules

- [Vacuum Chamber Module](#)

[8]



## Laser Welding Monitoring

- [MM-L300A - Laser Weld Monitor](#)
- [MM-L400A - Laser Weld Monitor](#)

[9]

## Customized Solutions

Send your sample to one of our technology centers in Europe for an evaluation. We will then determine which solution meets your needs best. AMADA WELD TECH offers feasibility testing and application consulting.

