

# RECI Fibre Laser WELDERS

Precision & Efficient Laser Welding Systems

R1.0

**Tel: 0121 541 1444**



Discover **cutting-edge fibre laser welding technology** designed for **industrial fabrication** across multiple sectors, including automotive, aerospace, medical, electronics, energy, shipbuilding, and construction. These **versatile, high-speed welding machines** offer **exceptional accuracy, reduced heat distortion, and enhanced durability**, making them the perfect solution for **precision welding applications**.

## Energy Efficient Welding Technology

Fibre Laser Welders consume significantly less energy than traditional welding systems, providing a cost-effective and environmentally friendly solution for businesses looking to reduce energy costs while maintaining high-performance welding capabilities.

## High-Powered Welding Performance

Available in power options from 800W to 2kW, these advanced fibre laser welders deliver fast, precise, and consistent welding results with minimal operator effort. Achieve clean, high-strength welds in a fraction of the time compared to conventional methods.

## Reliable, Low Maintenance

Designed for fabrication professionals, these welders offer exceptional durability, easy operation, and minimal maintenance requirements, ensuring a long-lasting and cost-efficient welding solution for industrial applications.

## Multi-Material Compatibility

RECI Fibre Laser Welders are engineered to handle a wide range of metals, including stainless steel, aluminium, copper, and carbon steel. This versatility makes them perfect for industrial fabrication, precision manufacturing, and custom metalworking applications.

## Intuitive User Interface

Featuring an easy-to-use control system, RECI welders simplify the welding process, allowing operators to adjust settings effortlessly for superior weld quality across different materials and thicknesses.

## Compact & Space Saving

With a compact footprint and robust design, these space-efficient fibre laser welders maximise workshop efficiency without sacrificing power or durability. Engineered for reliable performance in demanding production environments, they ensure long-term operational efficiency.



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## Transform Your Welding & Fabrication Process

Backed by a proven reputation for reliability, the RECI Fibre Laser Welding Range is designed to enhance productivity while minimising operational costs. Whether you're in automotive, aerospace, fabrication, or manufacturing, these high-performance welding systems provide the precision, speed, and durability needed to take your production to the next level.

### Effortless Control with Touchscreen

The RECI Fibre Laser Welders feature an intuitive touchscreen control system, enabling operators to quickly adjust settings for seamless operation, increased productivity, and precision welding results.

### Customisable Power Options

Choose from 800W, 1.2kW, 1.5kW, and 2kW power sources to match your welding needs. These options ensure optimal performance across various materials and thicknesses, enhancing efficiency and precision.

### High-Speed Welding

RECI Fibre Laser Welders deliver exceptional welding speed, reducing production times without compromising on quality. Enjoy stronger, cleaner, and faster welds with enhanced durability.

### Low Maintenance & Lasting Durability

Built with premium components, RECI Fibre Laser Welders require minimal maintenance, offering long-term reliability and reduced operational costs over their lifespan.

### Dedicated UK Support

Our **expert UK-based support team** offers dedicated telephone assistance, on-site service engineers, and an extensive online support portal with troubleshooting guides, ensuring you receive the highest level of after-sales care.



RECI Laser Welding Datasheet	A80	A120	A150	A200
Limit Output Power (W) at 19A	700	1000	1300	2000
Max Output Power (W) at 22.5A	800	1200	1500	2000
Operating Mode		Continuous		
Power range		10-100		
Central Wavelength		1080 ±3		
Laser Class		Class 4 Laser (health and safety precautions apply)		
Power Instability (% during continuous operation of 1hr)		≤1		
Power Instability (% during environmental conditions from 0-40 deg °)		≤3		
Max Modulation Frequency (kHz)		20		
Red Dot Laser Power (mW)		>0.5		
Operating Cable Length (m)		5 as standard (10 optional)		
Operating Voltage		AC 220V 50/60Hz		
Power Consumption (W)	<2500	<3000	<4000	<6000
Control Mode		Ext. AD/Loc. AD		
Ambient Operating Temperature		-5 - 40 °		
Abient Humidity (%)		<90		
Cooling Method		Air Cooled system		
Storage Temp Range ( °C)		-10 - 40 °		
Input Gas Pressure (Mpa)		<0.7		
Dimensions Width x Depth x Height (mm)	273x615x396.3	273x635x528	273x635x528	273x635x668

# What Can They Weld?

**\*Note: This list is not exhaustive. Always** check with your materials supplier to see if you need to adhere to any special welding and health and safety requirements. **Fibre laser welding also allows you to undertake dissimilar metal welding, such as copper to aluminium.**

**Stainless Steel**

**Mild & Carbon Steel**

**Copper**

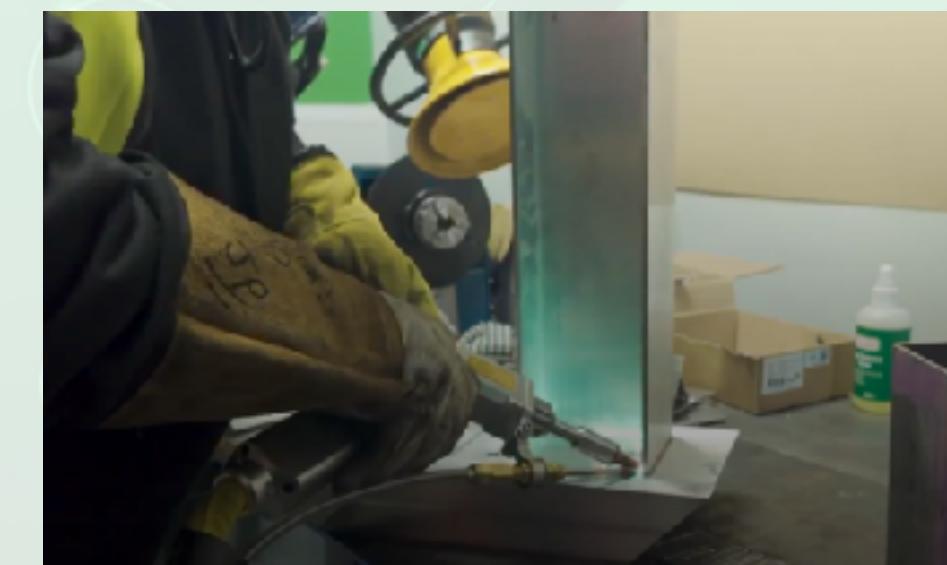
**Brass**

**Aluminium**

**Titanium**

## Why Choose a RECI Laser Welder?

The **RECI Fibre Laser Welder Range** is engineered for precision, efficiency, and reliability, making it the **ultimate solution for industrial** and commercial welding applications. Featuring power options from **800W to 2kW**, these advanced laser welders provide the versatility needed to handle a wide variety of materials, including stainless steel, aluminium, carbon steel, and copper.



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For a **safe and controlled laser welding environment**, it is vital to use a **laser-specific safety enclosure** that isolates the welding unit and operators from the rest of the workshop. This ensures **compliance with safety standards** while maintaining a secure workspace.

## Key Safety Measures:

- **Proper Fume Extraction:** Install a **dedicated extraction system** within the enclosure to maintain air quality and remove hazardous fumes.
- **Personal Protective Equipment (PPE):** Operators must wear **welding gloves, safety coveralls, and a welding helmet** with a **laser-rated viewing panel** for eye protection.
- **Laser Safety Eyewear:** In addition to the welding mask, operators should use **laser safety eyewear** for **maximum protection against laser exposure**.
- **Compliance with Class 4 Laser Safety Regulations:** Follow **all relevant safety protocols, risk assessments, and operator training** as required for **high-powered laser equipment**.

This guidance serves as a **basic overview** of best practices for **laser welding safety**. It is essential to comply with **local health and safety regulations** and ensure **all personnel are fully trained** on potential hazards and required precautions.

## Finance Options

**Finance Options are available.** Why not spread the cost of your machinery purchase? Our finance partner Percy Finance Ltd is an appointed representative of AFS Compliance Ltd which is authorised and regulated by the Financial Conduct Authority. Firm number 625035, Percy Finance Ltd is a franchisee of Asset Finance Solutions (UK) Ltd.

All quotes are subject to status - minimum trading of 2 years.



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**Mantech's Aftersales and Support are founded on over 25 years of experience providing machinery tools to businesses across the UK, Ireland, and Europe.** We offer comprehensive support through our fully staffed 6-person service desk and a team of 15 skilled road engineers, dedicated to delivering prompt and professional assistance. All customers benefit from access to our service portal, enabling them to easily track communications, book services, and stay informed every step of the way. At Mantech, service isn't just a priority—it's the foundation of our business.

## Service Desk

Our dedicated 6-person service desk is always ready to assist you with any inquiries or technical issues. With a fully staffed, office-based team, we ensure you receive prompt and reliable support whenever you need it.



## Fully Manned Team

Our robust support network includes 15 skilled road engineers who are strategically positioned to provide on-site assistance across the UK, Ireland, and Europe. Whether it's installation, maintenance, or repairs, our expert team is equipped to deliver fast, professional service.



## Extended Warranty

For added peace of mind, we offer extended warranty options of up to 5 years, providing you with comprehensive coverage and minimising downtime. Our warranties are designed to keep your equipment running smoothly, ensuring long-term reliability and performance.



## Service Portal

Our online service portal offers convenient access for tracking communications, booking services, and monitoring the progress of your requests. It also provides a wealth of resources, including hints, tips, and guides to help you get the most out of your machinery.

