

Handheld Laser Welding Machine

This handheld laser welding machine is compact and requires no external chiller. Its flexible operation allows for outdoor welding and precise spot welding of complex seams.



ADDITIONAL IMAGES



Overview

Advanced Handheld Fiber Laser Welding

This handheld laser welding machine utilizes the latest generation of fiber laser technology to outperform traditional manual welding methods. It offers significant improvements in energy efficiency, welding speed, and processing costs, making it an ideal replacement for traditional argon arc and electric welding in thin metal applications. Designed for flexibility and ease of use, it minimizes thermal deformation while delivering high-quality, aesthetically pleasing weld seams.

Performance Metrics

Efficiency Highlights

90 %

Energy Savings

10 x

Speed Multiplier

100000 hours

Laser Lifespan

Comparison

Laser vs. Traditional Welding

Feature	Argon Arc Welding	Handheld Laser Welding
Heat Input	Very High	Low
Deformation	Prone to deformation	Minimal/None
Solder Spot	Large	Fine/Adjustable
Safety	Intense UV/Radiation	Minimal/Safe
Precision	General	High

Key Features

Machine Characteristics

- Compact design without external chiller
- Flexible operation suitable for outdoor welding
- High-quality beam for fast, precise welding
- Beautiful weld seams without air holes
- Multi-angle welding capability for complex seams

Operational Benefits

Operational Advantages

- Reduced operator training requirements
- No welding consumables required
- Reduced post-weld grinding and treatment
- Compatible with automated tooling and robotics

Safety & Compliance

Safety Features

Emergency Stop, Key Switch Access, Low Thermal Deformation, Reduced UV Exposure