

LIGHTWELD™ 1500

Handheld Laser Welding System

QUICK SPECS

LASER POWER
Up to 1500 W

HIGH PEAK POWER
Up to 2500 W

SINGLE SIDED WELD THICKNESS

Stainless Steel, Galvanized Steel,
Mild Steel and Aluminum: Up to 4 mm
Copper: Up to 1mm

APPLICATIONS:

- Metal fabrication shops
- Auto body applications
- Maintenance and repair
- Construction and piping
- Farm, furniture & appliances
- Aerospace & transportation



INCLUDES:

- Air-Cooled Base Unit
- 5 m (16 ft) IPG Laser Welding Gun - Optional 10 m (32 ft) Cable
- 5 m (16 ft) Workpiece Clamp - Optional 10 m (32 ft)
- Getting Started Guide
- (4) Welding Nozzle Tips

LightWELD enables dramatically faster welding, is easier to learn and operate, and provides higher-quality, consistent results across a wider range of materials and thicknesses than MIG or TIG with minimal distortion, undercut or burn-through. The heat affected zone is dramatically minimized, as is the need for traditional post-processing grinding or polishing for increased productivity, less scrap and lower cost-per-part.

LightWELD Laser Welding

High Speed	Up to 4X Faster than traditional methods - increased productivity for lower costs-per-part
High Quality	Consistent welding of thick, thin and reflective metals without distortion, undercut or burn-through - minimal heat affected zone
Easy to Use	Simple set up, easy to learn and operate for consistent high-quality welds
Enhanced Material Capability	Metals with dissimilar thicknesses, ultra-thin parts, copper welding, materials with low and high electrical conductivity
Wobble Welding	Up to 5 mm of additional weld width - increases capability and creates highly aesthetic seams
Operator Safety	Multi-level sensors and interlock safety features

Laser Power	High Peak Power	Mode Storage Capacity	Wobble Length	Wobble Frequency	Dimensions LxWxH	Weight
Up to 1500 W	Up to 2500 W	74	Up to 5 mm	Up to 300 Hz	641 x 316 x 534 mm 25.2" x 12.4" x 21"	53 kg 118 lbs

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CONTROL PANEL:

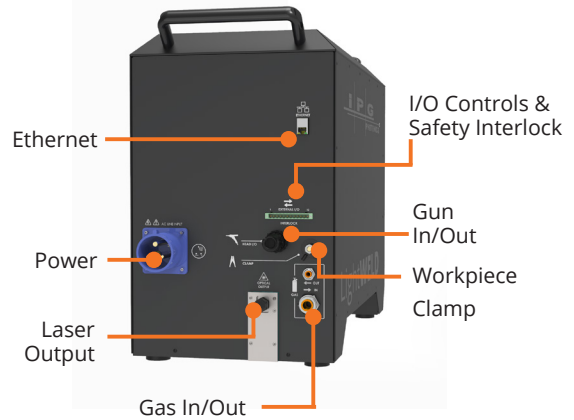


- Adjustable laser power up to 1500 W
- Preset and user-defined modes for material and thickness combinations
- Wobble welding frequency control

Wobble length up to 5 mm for increased seam size

Laser power up to 1500 W is easily adjusted with intuitive controls to quickly dial in optimum weld settings for various materials and thicknesses. With 74 stored preset and user-defined process parameters, novice welders can be trained and welding in a matter of hours. Select stored modes provide up to 2500 W of high peak power for even greater welding capability.

CONNECTIONS:



Clearly labeled rear connections make getting started fast and easy. Laser delivery, gas and gun control is pre-wired in a 5 m (optional 10 m) cable. Just plug in the power cord and gas connection, attach the clamp to your work surface and you are ready to go. An ethernet connection provides access to advanced parameter settings to fine tune and save process parameters.

HANDHELD GUN & NOZZLE TIPS:

2-step trigger enhances operator safety



Easily changeable nozzle tips optimize joint types

5 m (or 10 m optional) cable for maximum accessibility

The handheld welding gun is compact, ergonomic and proven to be the most comfortable, well balanced and easy to use gun available with a selection of nozzle tips to optimize different joint types. The light weight and built-in wobble functionality enables operators to produce high-quality welds consistently throughout the day and safely with its 2-step trigger.

SAFETY FEATURES:

LightWELD is a Class IV laser system and routine precautions are required for the safe operation of the equipment.

BUILT-IN FEATURES INCLUDE:

- Key switch control of laser source and Emergency-stop button ensure deliberate operation
- Fiber laser interlock verifies integrity of laser delivery to the welding gun
- 2-step weld gun trigger, enable and then fire, for intentional operation
- Part contact electrical interlock turns off the laser power if the welding head is not in contact with the welded parts

Operator protective equipment including welding gloves, welding shield and 1070 nm laser-safe glasses are required



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HANDHELDLASERWELDER.COM

