

LIGHTWELD® 2000 XR

eXtended Range Handheld Laser Welding & Cleaning System

QUICK SPECS:

LASER POWER

2000 W Max. Avg. Power
3000 W Peak Pulse Power

WELDING CAPABILITY

- Stainless, Galvanized & Mild Steel: up to 8 mm (0.315")
- Aluminum 3 & 5 Series: up to 8 mm (0.315")
- Aluminum 6 Series: up to 5 mm (0.200")
- Titanium & Nickel Alloys: up to 7 mm (0.275")
- Copper: up to 3 mm (0.120")

WELDING CAPABILITY

Pre- & Post-weld up to 15 mm width
Pulsed cleaning power up to 3000 W peak power

100% Duty Cycle



INCLUDES:

- LightWELD 2000 XR Unit
- 10 m (16 or 32') Gun Cable
- 10 m (16 or 32') Workpiece Clamp
- User Guide
- Welding Helmet with IR Shield
- (3) Cleaning Nozzles
- (4) Welding Nozzles
- Laser Safety Glasses OD 7+
- 3 m (10') CAT 6 Ethernet Cable
- (5) Cover Slides

APPLICATIONS:

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



LightWELD 2000 XR extends the range of materials and thicknesses of previous models, enabling fabricators to benefit from a wide range of solutions. Pre-weld and post-weld cleaning functionality optimizes weld quality and productivity.

LightWELD systems are easy to learn and operate, 4X faster than TIG welding and produce high-quality, consistent results for operators of all skill levels.

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LightWELD Laser Welding and Cleaning							
High Speed Welding	Up to 4X Faster than traditional methods - increased productivity for lower costs-per-part						
High Quality Results	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 and cleaning						
Exceptional Visual Finishes	Removes oils, rust and coatings before welding, and debris and discoloration after welding without the time and expense of abrasives or chemicals						
Enhanced Material Capability	Sheet metal up to 0.315" thick, copper, titanium, nickel alloys, metals with dissimilar thicknesses, ultra-thin parts, materials with low and high electrical conductivity						
Wobble Welding	Up to 5 mm of weld width - increases capability and creates highly aesthetic seams						
Operator Safety	Multi-level sensors and interlock safety features						

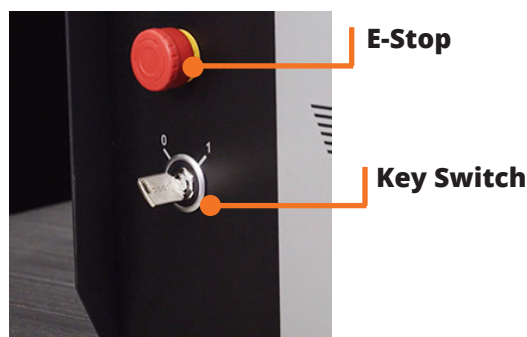
Laser Power	Pulsed Cleaning Power	Power	Mode Storage Capacity	Cleaning Width- Length	Wobble Length & Frequency	Dimensions LxWxH	Weight
Up to 2000 W	Up to 3000 W Peak Power	220V Single Phase, 33 A	100	Up to 15 mm	Up to 300 Hz Up to 5 mm	641 x 316 x 534 mm 25.2" x 12.4" x 21"	60 kg 132 lbs

SAFETY FEATURES:

LightWELD **2000 XR** 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 and cleaning gun
- 2-step gun trigger, enable and then fire, for intentional operation
- Part contact electrical interlock turns off the laser power if the gun is not in contact with the parts



Operators must wear all recommended personal protective equipment (PPE), including the IPG laser safety glasses and IPG helmet with shield provided with LightWELD **2000 XR**, laser-resistant and heat resistant gloves, caps, leather apron and other laser-resistant and heat-resistant clothing.