



LUX Handheld Fiber Laser Product Series

Handheld Laser Welding Machine
Handheld Laser Cleaning Machine



Product Philosophy

To provide customers with high-performance welding products and solutions. Aiming to be the first choice for our customers!



Four-in-one Handheld Fiber Laser Welding Machine Series

Welding / Cutting / Rust Removal /
Weld Seam Cleaning

Four-in-one Handheld Fiber Laser Welding Machine Series

Welding / Cutting / Rust Removal / Weld Seam Cleaning

1.5KW / 2KW / 3KW

Product Features

- High-quality industrial-grade fiber laser generator suitable for both heavy duty and powerful;
- Industrial-grade laser electronic control and optical control solutions with stable laser power output and minimal power fluctuation;
- Large redundant laser chip with small power attenuation;
- Stable and reliable hand held laser welding torch system solution, designed to user needs;
- Professional dual-temperature&dual-control water cooling system to ensure long-term welding;
- Industrial-grade LCD screen, simple touch screen operation, easy and efficient human-computer interaction;
- Support 10 sets of parameter storage memories and user customization;
- Continuous and modulation modes for precise control of heat conduction welding of thin plates, deep fusion welding of medium and thick plates, with large depth-to-width ratio;
- Applicable materials: carbon steel, stainless steel, high-strength steel, galvanized sheet, corrugated sheet, aluminum alloy, magnesium alloy, titanium alloy and any other metal materials;
- Applicable industries: automotive parts, two/three-wheeled vehicles, photovoltaics, energy storage, charging equipment and other applications with multiple welding stations and complex processes.

Product Specification

Item	MEGMEET LUX Series Handheld Laser Welding Machine		
Product specification	LUX-1500	LUX-2000	LUX-3000
Rated input voltage(AC)	1-phase 220V 50/60Hz	1-phase 220V 50/60Hz	3-phase 380V 50/60Hz
Rated input power	6kW	8kW	13kW
Rated output laser power	1.5kW	2kW	3kW
Output laser wavelength	1080±10nm	1080±10nm	1080±10nm
Cable length	Standard 10m/ can be extended to 15m		
Working mode	Continuous, modulated		
Cooling method	Dual temperature&dual control industrial constant temperature		
water cooler	-10°C~40°C	-10°C~40°C	-10°C~40°C
Working temperature range (Tc=40°C)	<70%no condensation	<70%no condensation	<70%no condensation
Welding thickness recommendation	0.5~4mm	0.5~6mm	0.5~8mm
Dimensions (L×W×H)	915×790×540mm	915×790×540mm	1215×530×860mm
Weight	≅90kg	≅90kg	≅160kg

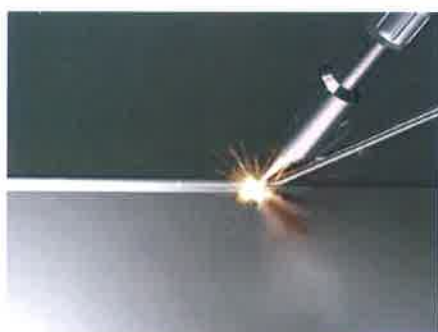
High-quality Light Beam to ensure one-time forming with less consumables

Laser main advantage, high power density, small focal spot diameter, and heat source is both stable and concentrated, so welding is free of spatter, and basically no post weld grinding is required.



Laser welding speed is fast and efficient with small deformation

- Higher productivity. One laser welding machine is equivalent to four TIG machines;
- Minimal deformation, no need post-welding shaping.



Handheld laser welding

VS



Traditional welding

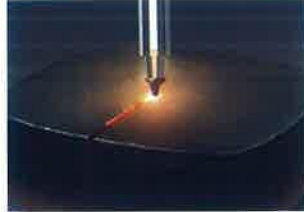
Welding method	Welding speed	Operation	Welding quality			Environmental friendly	
			Weld Forming	Workpiece deformation	Post-weld treatment	Environmental pollution	Personal hazard
Megmeet Super-stable fiber laser welding	Extremely fast	Extremely easy	Good	Small	None	Small	Low
Conventional arc welding	Slow	Hard, and welders need to have certification	So-so	Big	Polishing and shaping	Many spatter and large pollution	High
YAG laser welding	Slow	So-so	Good	Small	Polishing	Mid-level	Low

Four-in-one Functions

When switching functions, you need to replace the copper nozzle, focus lens, dust cap and other related accessories for welding torch.



Laser Welding



Laser Cutting



Laser Rust Removal



Weld Seam Cleaning



Copper nozzle (available in several models)



Cutting nozzle

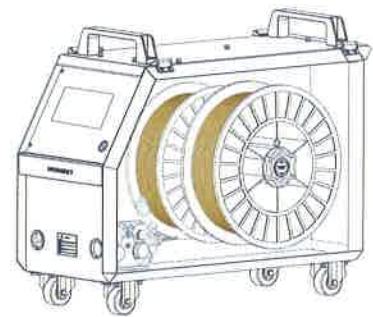


Cleaning and dust cap

Flexible and quick replacement

Dual-wire Welding (Optional)

- Support $\Phi 1.6-2.5\text{mm}$ double-wire, improving melting rate and welding strength;
- Maximum weld width can be adjusted to 8mm, and gap adaptability is stronger;
- Unique wire feeding motor designed to ensure smoother consistency of dual wire feeding;
- Simple operation, easy to use, stable wire feeding, and better weld formation.



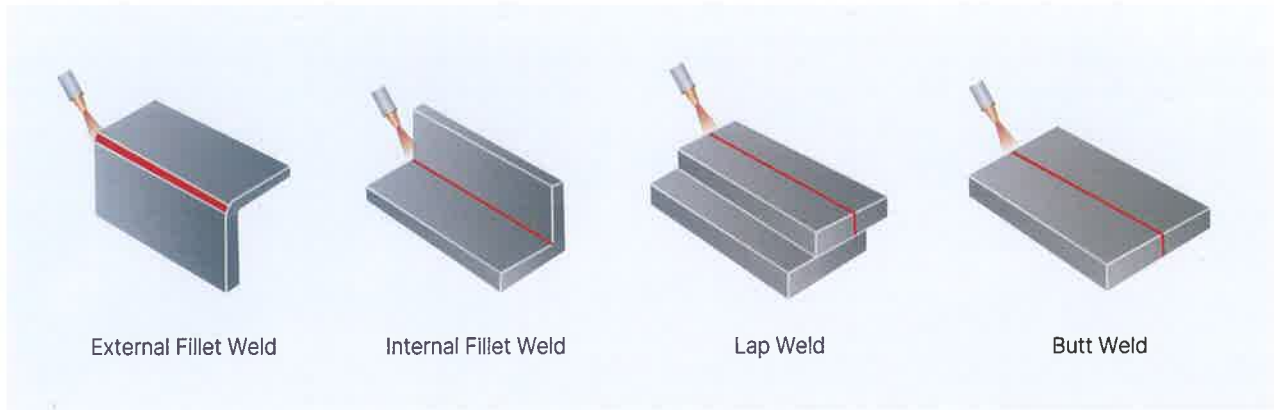
7-inch Large LCD Panel

- Both machine and wire feeder are equipped with 7-inch large LCD panel;
- Operation panel, function settings, and welding mode are clear and easy to users;
- Supports 10 sets of parameter storage memories and quick re-call.



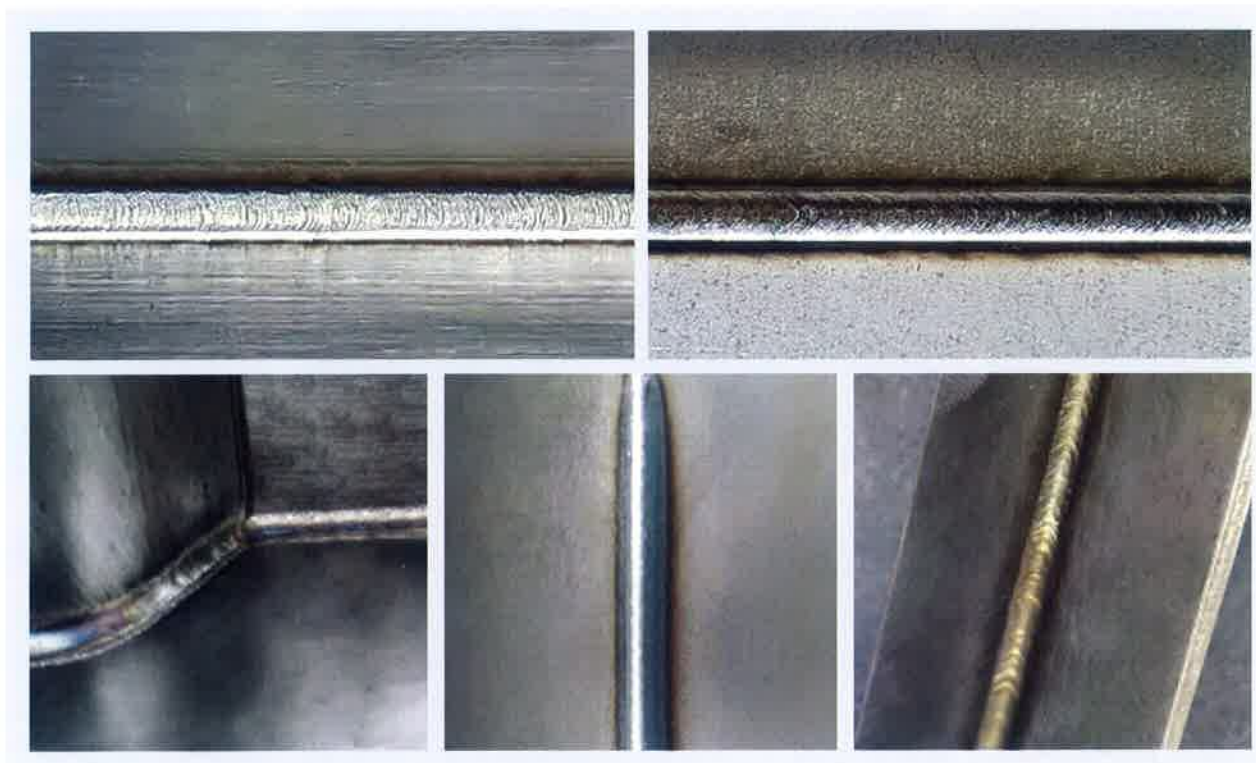
High Flexibility for Welding

Non-contact welding at any angle is realized in various complex welding workpieces and large workpieces with irregular shapes.



Beautiful welding appearance with zero grinding and zero shaping

- Smooth weld transition and solid weld bead is ensured. Heat affected zone and overall deformation of workpiece is small with zero secondary grinding and shaping;
- Laser welding generates less dust and slag, zero arc radiation, and reduces harm to the environment and welders.



Simple Operation and Easy Use

- Operation is simple, and new-hands can quickly get started after a brief learning period;
- Compared with traditional welding, one machine equals 3 professional welders per year and reduce costs for enterprises.



Applicable Industries



Sheet Metal Industry



Mold Industry



Factory Building



Door and Window Industry



Hardware Industry



Construction and Building Materials



Steel structure industry



Auto-parts



Elevator Industry



Shelf Industry



Chemical Plant



Kitchen and Bathroom Industry



LUX Handheld Laser
Cleaning Machine

LUX Handheld Laser Cleaning Machine

1.5KW/2KW/3KW

Product Features

- Industrial-grade laser electronic control and light control solution ensures stable laser power output and small power fluctuation;
- Stable and reliable handheld laser cleaning system solution, more suitable to user needs;
- Professional dual-temperature & dual-control water cooling system to ensure long-term cleaning;
- Professional cleaning system with cleaning head, suitable for non-contact cleaning and none damage to base materials, zero consumables and pollution;
- Simple operation, quick start even zero basis , 800mm focal length, easy to hold the torch for cleaning;
- High cleaning efficiency with cleaning width 300mm, and cleaning rate of floating rust 20m²/hour;
- Not limited by material shape, cleaning work surface could be 0 angles, achieving zero dead-angle cleaning;
- Multiple safeguard ensures operator's safety with safety lock and trigger dual control;
- Simple and portable, larger protective lens, easy to replace, better protection ;
- Wide range of applications: rust removal, paint removal, oil removal, metal surface oxide layer, plating, attachment cleaning.

Product Specification

Item	MEGMEET LUX Handheld Laser Cleaning Machine		
Product Specification	LUX-1500C	LUX-2000C	LUX-3000C
Cleaning material	Floating rust, paint, rust		
Rated input voltage(AC)	1-phase 220V 50/60Hz	1-phase 220V 50/60Hz	3-phase 380V 50/60Hz
Rated input power	6kW	8kW	13kW
Rated output laser power	1.5kW	2kW	3kW
Rated output laser wavelength	1080±10nm		
Cable length	Standard 10m/can be extended to 20m		
Cooling method	Dual temperature & dual control industrial constant temperature		
Working temperature range	-10°C~40°C		
Working humidity range (Tc=40°C)	<70°C without condensation		
Cleaning distance	65~75cm(F800 focus)	65~75cm(F800 focus)	75~80cm(F800 focus)
Cleaning width	0~300mm(F800 focus)		
Protective gas	Argon, nitrogen, compressed gas above Level-3		
Protective gas pressure	Maximum 15Bar		
Dimensions (L×W×H)	915×790×540mm	915×790×540mm	1215×530×860mm
Weight	≅90kg	≅90kg	≅160kg

Various Applications

- Metal rust and paint treatment (such as rust and paint removal in the manufacturing and maintenance of ships, vehicles, machinery, etc.);
- Oil stain and attachment cleaning (such as molds, kitchen utensils, precision parts, and metal surface cleaning in narrow spaces).

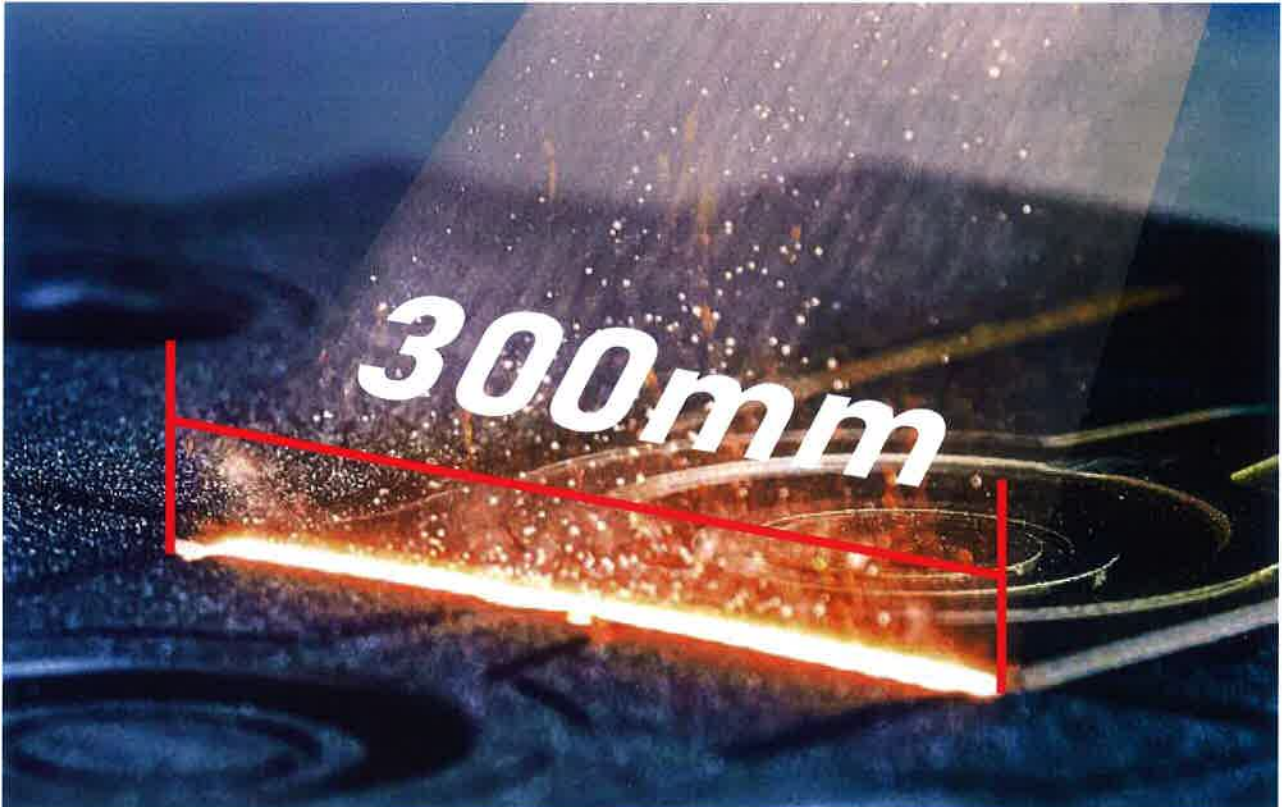


Non-contact
Cleaning



High Cleaning Efficiency

- Focal length is 800mm, be easy to clean with a torch;
- Maximum cleaning width is 300mm with high cleaning efficiency.

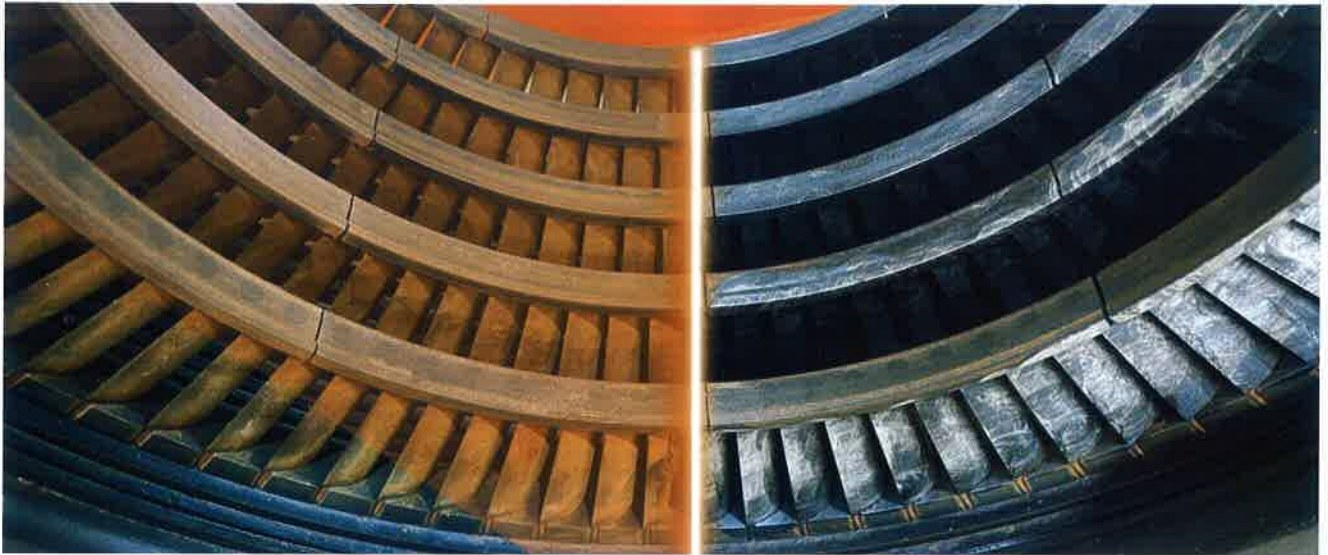


Laser Cleaning vs. Traditional Cleaning

Category	Laser Cleaning	Chemical Cleaning	Mechanical Polishing
Environmental protection	Green and environment friendly	Serious pollution	Easy to pollute
No damage to work-piece	Not easy to damage	Easy to damage	Easy to damage
Safety	Safe with fiber transmission	Unsafe and harmful to human body	Relatively safe
Cleanliness	High	Uneven	Uneven
Cleaning efficiency	High	Low	Low
Precision	Controllable and high precision	Poor	Poor
Manual operation	Simple	Complex	Simple

Not Limited by Material Shape and Non-contact Cleaning

It can achieve non-contact and any-angle cleaning, and be able to clean various complex work-pieces with greater flexibility.



7-inch Large LCD Panel

- Both machine and wire feeder are equipped with 7-inch large LCD panel;
- Operation panel, function settings, and welding mode are clear and easy to users;
- Supports 10 sets of parameter storage and quick re-call.



Multiple safeguard ensures operator's safety, with dual control of safety lock and trigger



Applicable Industries



Hardware industry



Mold industry



Kitchen and bathroom industry



Steel structure industry



Construction and Building Materials



Auto-parts

MEGMEET Germany GmbH
Add: Stadtheider Str. 26-28, 33609
Bielefeld, Germany
Tel: +49 521 588 131 40

MEGMEET USA, Inc.
Add: 4040 Moorpark Avenue, Suite 221,
San Jose, CA 95117
Tel: +1-408-260-7211

MEGMEET Electrical Co., Ltd
Made in: 34th Floor, High-tech Zone
Union Tower, No.63 Xuefu Road, Nanshan
District, Shenzhen, 518052, China
Tel: +86-755-8660 0500

MEGMEET (Thailand) Co., Ltd
Made in: 7/375 Moo 6, Tambon M
abyangporn, Pluak Daeng, Rayong
21140
Tel: +66 (0) 33 012 666

www.megmeet.com (MEGMEET Electrical)

www.megmeet-welding.com (MEGMEET Welding Technology)

E-mail: welding@megmeet.com

Tel: +86-755-8660 0555

Follow us:



MEGMEET's strong technical strength, extensive industry application experience, relentless attention to customer needs, and the spirit of continuous innovation enable us to bring tailor-made products and solutions to help customers achieve greater success.