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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.

*MEGMEET Welding Technology Co., Ltd is continuously striving to develop and innovate for new product. We reserves the right of changing the technical specifications and designs without notices in advance.
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LUX Handheld Laser Product Series

Handheld Laser Welding Machine
Handheld Laser Cleaning Machine

Product Philosophy

To provide customers with high-performance welding products and solutions. To be the first choice of customers!



Four-in-one
Handheld Laser Welding
Machine Series

Welding / Cutting / Rust Removal /
Weld Seam Cleaning

Four-in-one Handheld Laser Welding Machine Series

Welding / Cutting / Rust Removal / Weld Seam Cleaning

1.5KW / 2KW / 3KW

Product Features

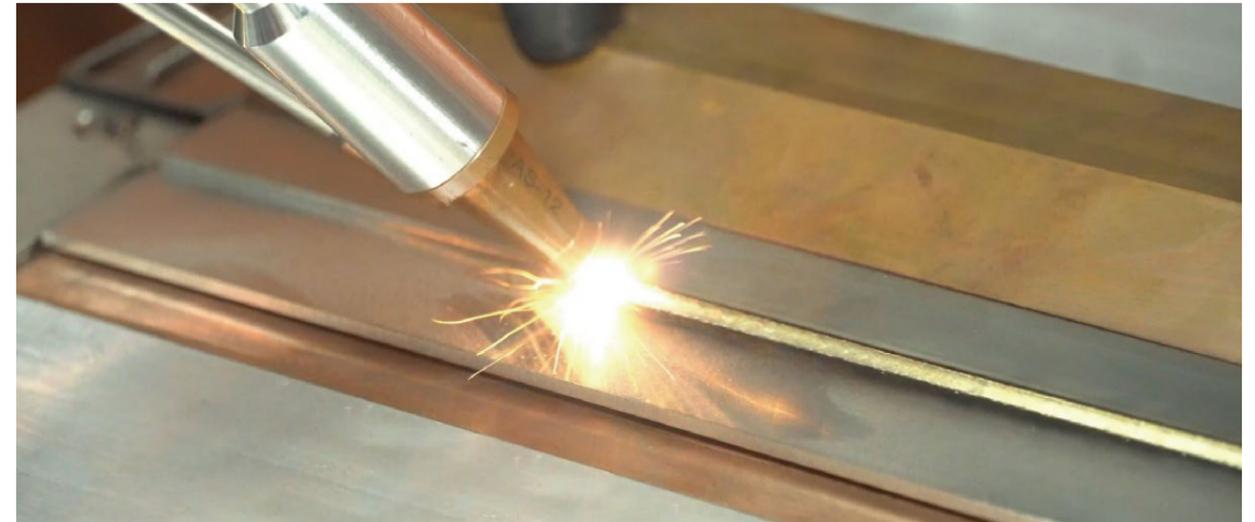
- High-quality industrial-grade laser generator with sufficient power and not exaggerated labeling;
- Industrial-grade laser electronic control and optical control solutions with stable laser power output and small power fluctuation;
- Large redundant laser chip reserved and small power attenuation;
- Stable and reliable handheld laser welding torch system solution, closer 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 JOB of parameter storage and user customization;
- Continuous and modulation modes are more suitable for 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 other metal materials;
- Applicable industries: automotive parts, two/three-wheeled vehicles, photovoltaics, energy storage, charging equipment and other occasions with diverse 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

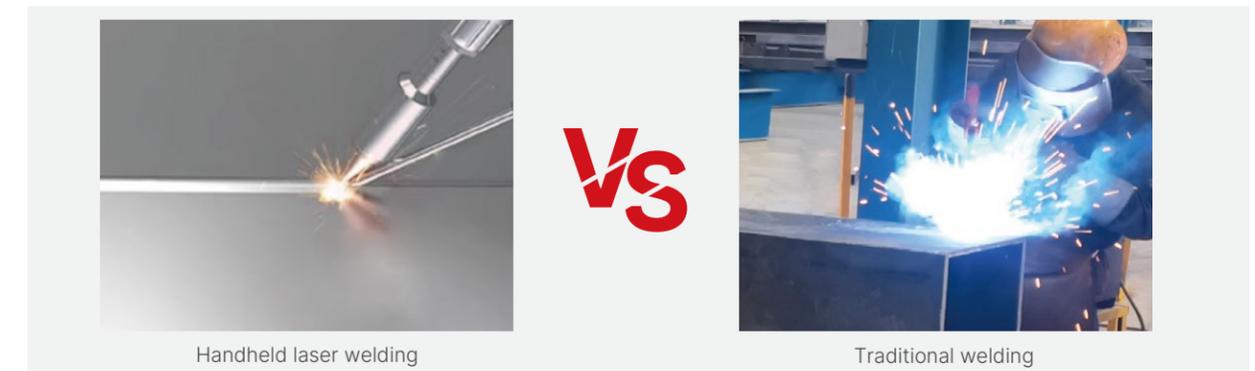
High-quality Light Beam to ensure one-time forming with less consumables.

When laser is focusing, the power density is high, focal spot diameter is small, and heat source is stable and concentrated. Welding is almost free of spatter, and basically no grinding is required after welding finished.



Laser welding speed is fast and efficient with small deformation.

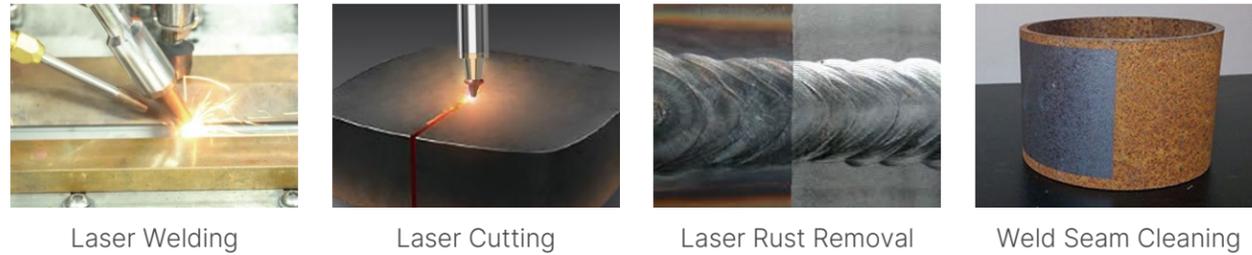
- Save time and labor cost. One laser welding machine is equivalent to four TIG machines;
- Small deformation, no need post-welding shaping.



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 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)

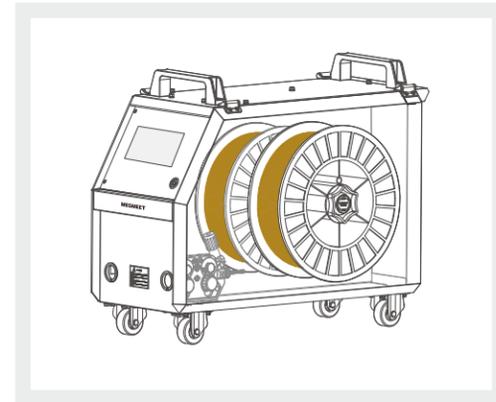
Cutting nozzle

Cleaning and dust cap

Flexible and quick replacement

Double-wire Welding (Optional)

- Support $\Phi 1.6-2.5\text{mm}$ double-wire, improve melting rate and welding strength;
- Maximum weld width can be adjusted to 8mm, and gap adaptability is stronger;
- Unique wire feeding motor design has stronger consistency of double wire feeding and is more suitable for user needs;
- Simple operation, easy to use, stable wire feeding, and better weld formation.



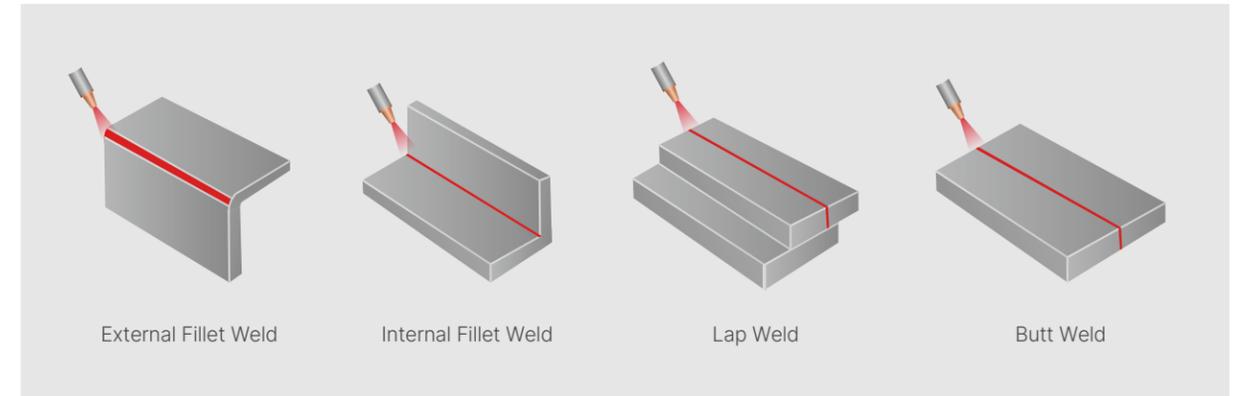
7-inch Large LCD Panel

- Both main 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 JOB of parameter storage 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.



External Fillet Weld

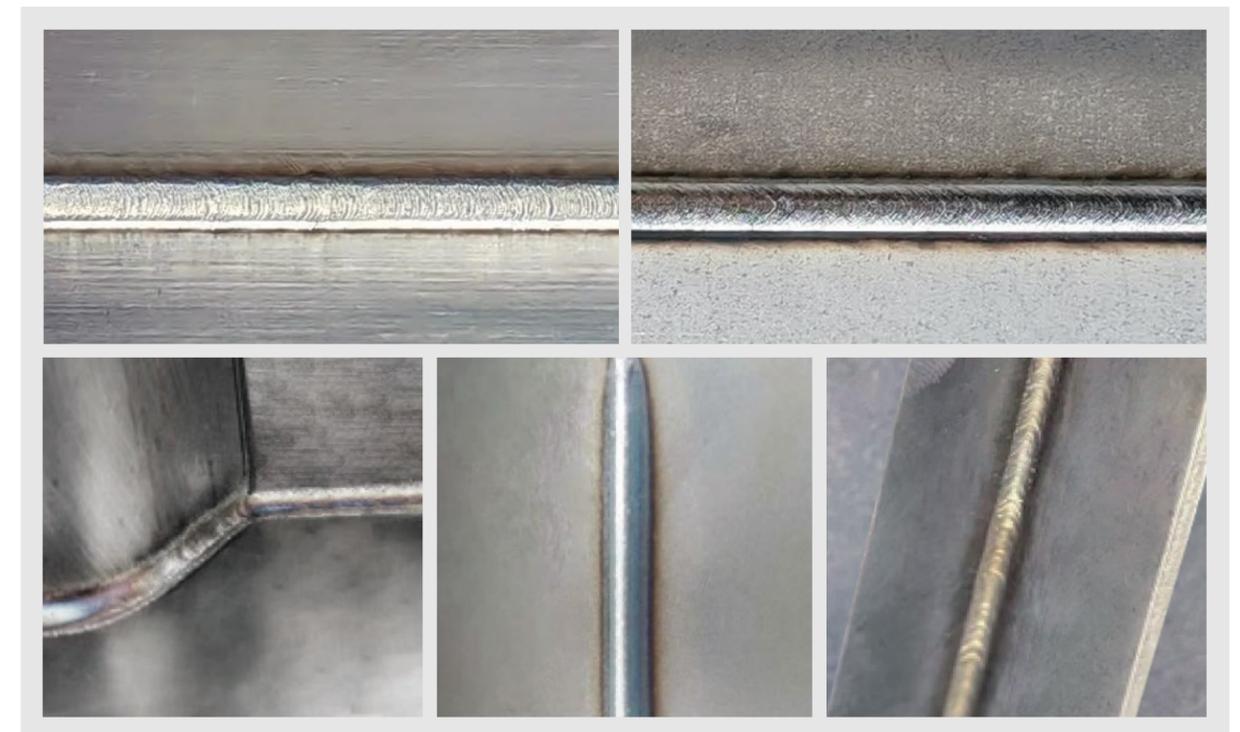
Internal Fillet Weld

Lap Weld

Butt Weld

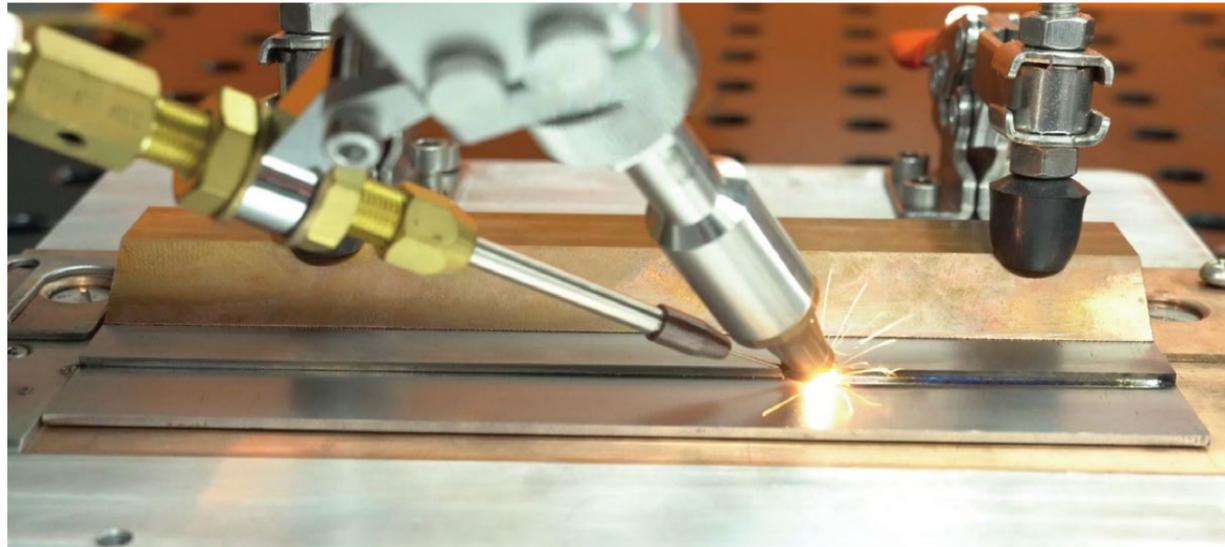
Beautiful welding appearance with zero grinding and zero shaping.

- 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;
- Welding generates less dust and slag, zero arc radiation, and reduces the harm to the environment and welders



Simple Operation and Easy Use

- Operation is simple, and new-hands can quickly get started after a simple learning;
- Compared with traditional welding, one machine can save 1-3 professional welders per year and reduce cost for enterprises.



Application Scenarios



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

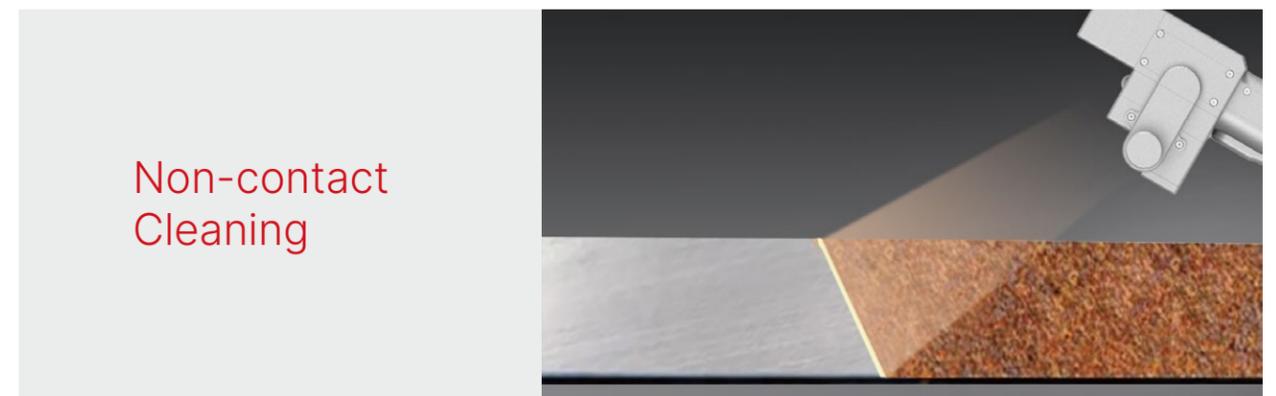
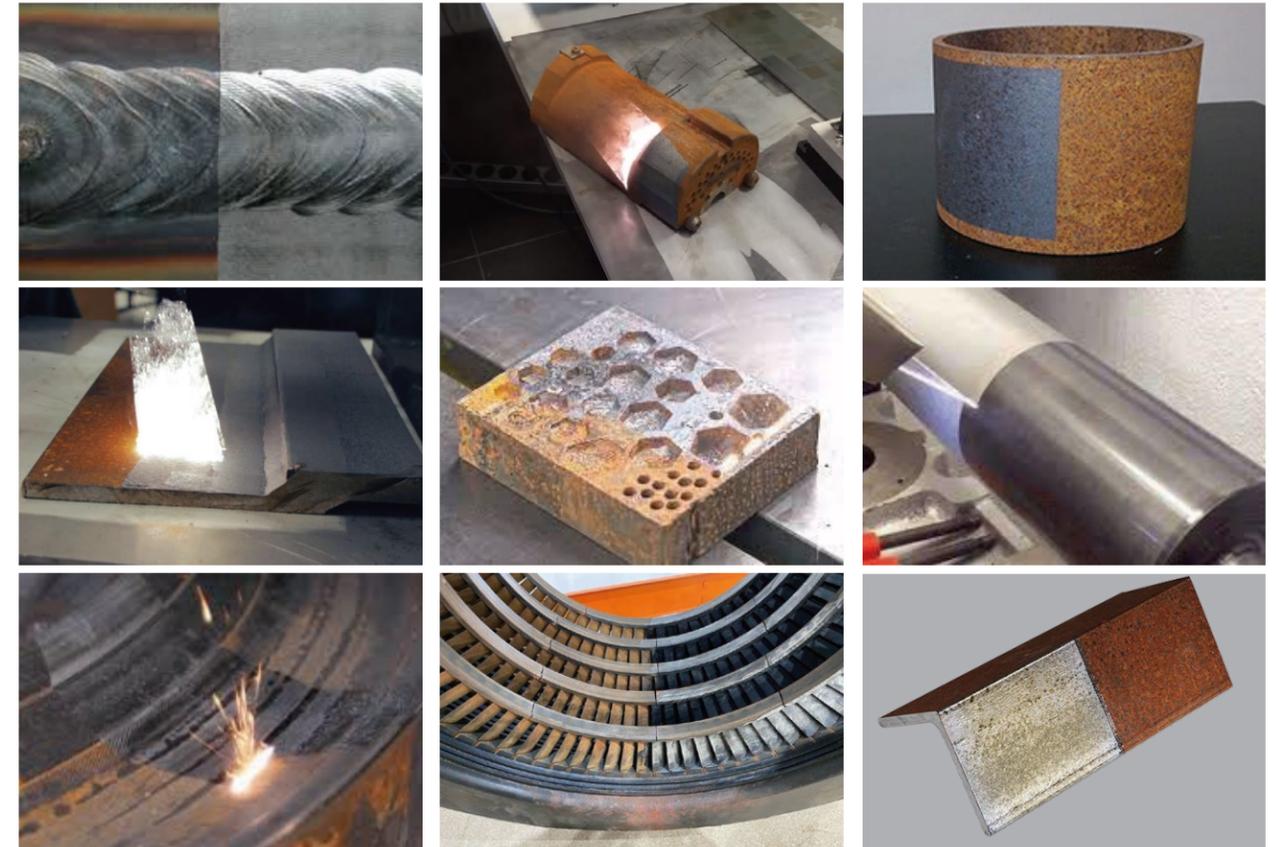
- Industrial-grade laser electronic control and light control solution ensures stable laser power output and small power fluctuation;
- Stable and reliable handheld laser cleaning system solution, closer to user needs;
- Professional dual-temperature & dual-control water cooling system to ensure long-term 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 insurance and guard safety. Safety lock and trigger dual control enables guarding user safety;
- Simple and portable, larger protective lens, easy to replace, better protection effect;
- 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		
	LUX-1500C	LUX-2000C	LUX-3000C
Product Specification			
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

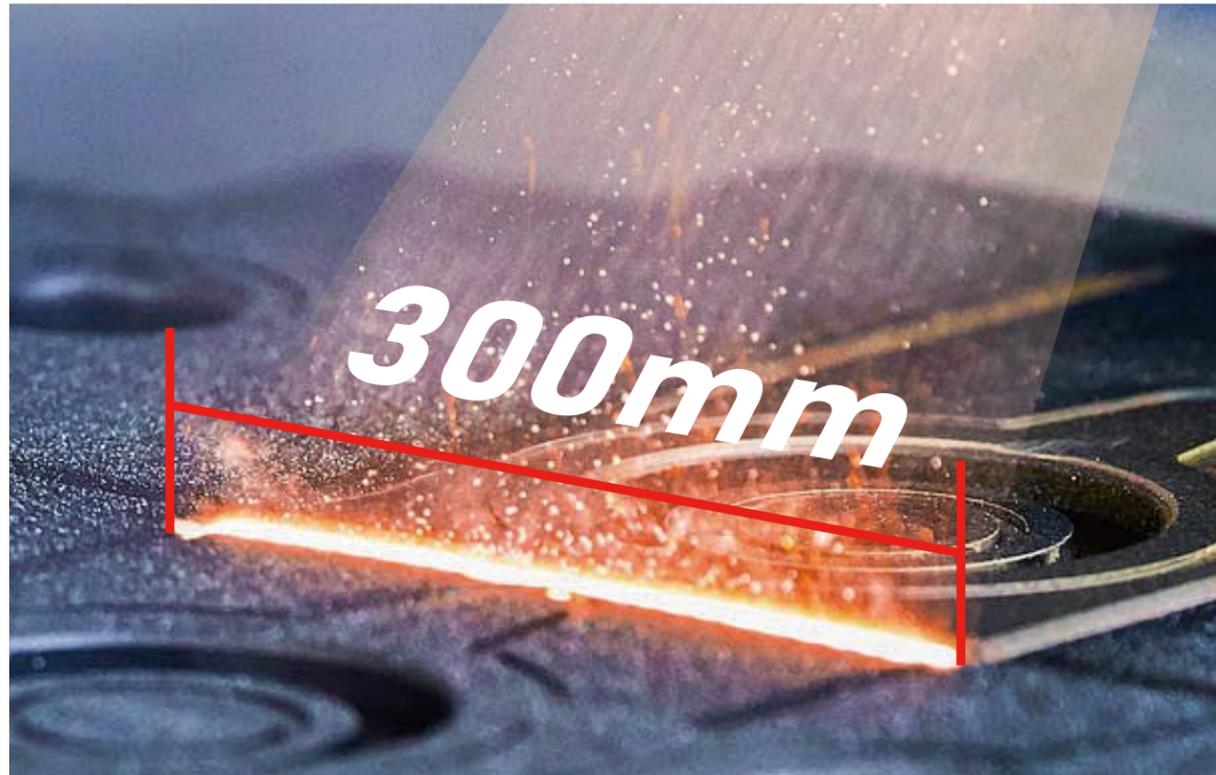
Various Applications

- 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).



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 main 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 JOB of parameter storage and quick re-call.



Multiple insurances to protect safety of user, with dual control of safety lock and trigger.



