MEGMEET
WELDING TECHNOLOGY

LUX Series

Air-cooled Handheld Fiber Laser Welding Machine

www.megmeet-welding.com

LUX Series

Air-cooled Handheld Fiber Laser Welding Machine

1200W / 800W

Product Features

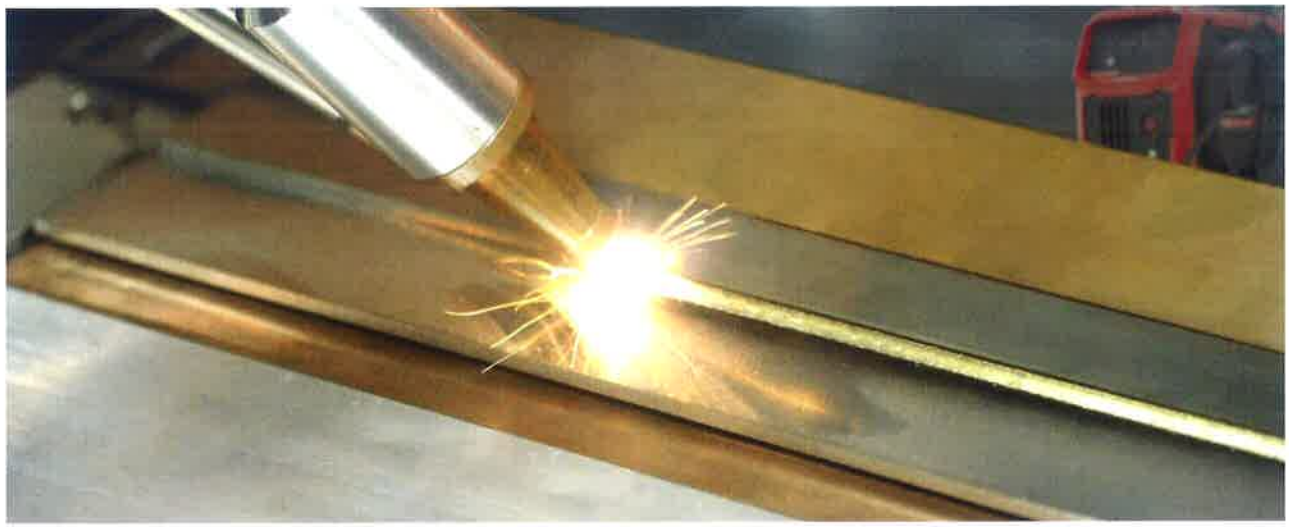
- Selected industrial-grade laser generator with sufficient and non-overstated power ;
- Large redundant laser chips are reserved, with small attenuation of laser power and good output power linearity;
- Lightweight design, both volume and weight are reduced to less than one-third of water-cooled laser welding machine;
- Industrial-grade forced air cooling solution to avoid the risk of condensation inside laser generator;
- Light emission at an ambient temperature of -10~40°C, without waiting for the machine to warm up;
- With multiple protection functions such as gas pressure alarm and input voltage mis-connection alarm;
- Industrial-grade LCD screen, simple operation, efficient man-machine interaction;
- Stable and reliable handheld laser welding torch system solution, closer to the needs of front-line users;
- Continuous and pulse modes, large aspect ratio, suitable for heat conduction welding of thin plates;
- Applicable materials: carbon steel, stainless steel, high-strength steel, galvanized sheet, corrugated sheet, aluminum alloy, magnesium alloy, titanium alloy and other kinds of metal materials;
- Suitable industries: automotive parts, two/three-wheeled vehicles, photovoltaics, energy storage, sheet metal and other welding occasions with diverse welding stations and complex processes.

Product Specification

Items	Single Phase 220V 50/60Hz	
Product Models	LUX-1200	LUX-800
Rated input voltage (AC)	Single Phase 220V 50/60Hz	Single Phase 220V 50/60Hz
Rated input power	4kW	2.8kW
Rated output laser power	1.2kW	0.8kW
Output laser wavelength	1080±10nm	1080±10nm
Cable length	5m	5m
Working method	Continuous/Pulse	Continuous/Pulse
Cooling method	Air cooling	Air cooling
Working environment temperature range	-10°C ~ 40°C	-10°C ~ 40°C
Working environment humidity range (Tc=40°C)	<70%	<70%
Welding thickness recommended	≤4mm	≤2.5mm
Dimensions (L×W×H)	630×335×550mm	630×335×550mm
Weight	≦50kg	≦50kg

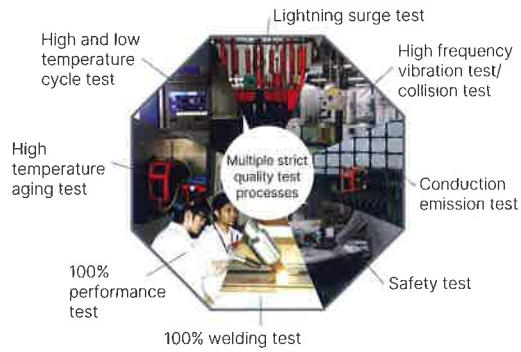
High-quality laser beam brings less consumables for one-time weld shaping

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



Stable and reliable quality based on multiple strict tests

Each batch of products need to pass strict stability and reliability quality tests before delivering to customers.



Laser welding is fast, efficient and has small deformation

- Time and manpower saving, 1 pcs of laser welding machine is equivalent to 4 pcs of TIG machines;
- Energy and electricity saving, energy consumption is reduced by more than 30% compared with other types of welding machines under the same welding application conditions.

Good welding appearance without the need for grinding or shaping

- Welding appearance is beautiful, fast, no welding marks and no discoloration; Weld seam transition is smooth and firm, welding heat affected zone is small. Overall deformation of work-piece is small, and no need for secondary grinding and shaping;
- Welding power is precisely controlled and automatically calibrated. Power fluctuation does not exceed 5%. The brightness of laser light is uniform, and high-quality welds are available with perfect linearity.

Industrial-grade Laser Welding Wire Feeder

- 7-inch large LCD panel, easy to operate;
- Simple control, stable wire feeding, and better weld formation;
- Support 0.8-1.6mm wire, and wire feeding speed can reach a maximum of 600cm/min;
- Ultra-high response speed in wire retraction greatly optimizes the phenomenon of wire sticking at welding end.

Applicable Industries

Sheet metal Industry

Building Materials Industry

Equipment Industry

Door &Window Industry

Hardware Industry

Elevator Industry

Shelf Industry

Kitchen&Bathroom Industry

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