

# FUERMU LASER

## Handheld Laser Welding Machine

FS2000 FS1500 FS1000



# Handheld Laser Welding Machine

FS2000

FS1500

FS1000



Air-cooled laser welding machine

Water-cooled laser welding machine

**Easy Economy Efficient**



## **Sophisticated interior design**

The good interactive control system expands the tolerance range of the processed parts and the width of the welding seam, solves the disadvantage of small light spot, and the welding seam is better formed.

## **Flexible and lightweight**

The ergonomic design method is adopted, and the grip is comfortable; easy to grasp with one hand, and the operation is simple and easy to use.

## **Multiple security alerts**

After removing the workpiece, the light is automatically locked and the safety is high.

## **Beautiful welding seam & Fast welding speed**

No consumables, no welding marks, no discoloration, no need for post-processing.

## **Various nozzles configure**

Configure a variety of angle nozzles to meet the welding needs of different single products.

Laser power: 1000W/1500W/2000W

Laser wavelength: 1070nm

Working environment: 10°C~40°C

Equipment power: 1000W/1500W (single-phase 220V/50Hz or 60Hz)

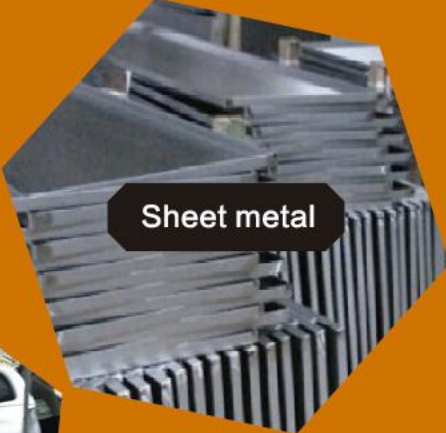
2000W (three-phase 380V/50Hz or 60Hz)



**WELDING THE WORLD**

Global Manufacturer Of All Whole Series Solutions For Welding Consumables And Intelligent Welding & Cutting Equipment







Sheet metal



Aerospace



Automobile




Mold

## Wide application


Widely used in metal processing and welding of stainless steel, carbon steel, various types of sheet metal, abrasive tools, chassis, industrial electrical cabinets, ventilation ducts, kitchen and bathroom, hardware products, automobile manufacturing, advertising sign sculpture and other industries.




Billboard




Hardware




Kitchenware



Water tank



Door and window frame



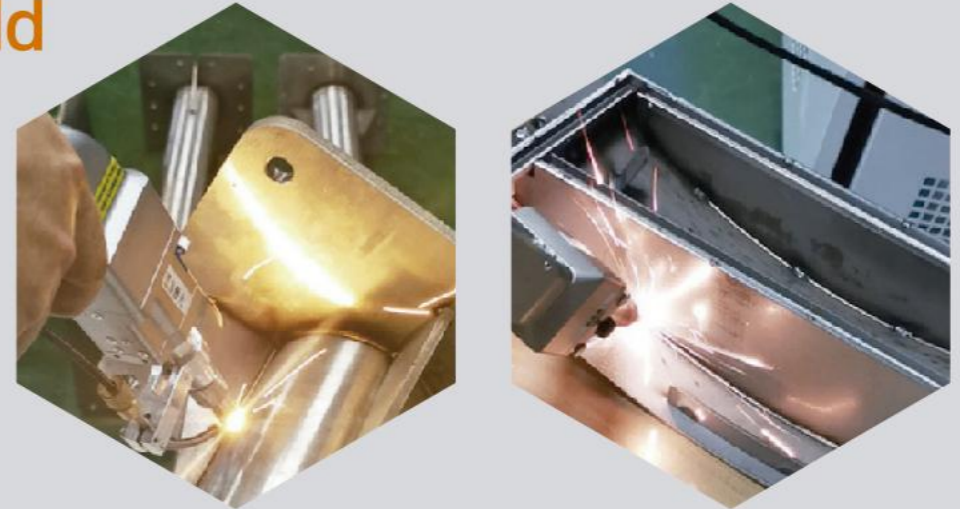
Lighting

- Free pre-sale 7 × 24 hours quick response service
- Free sample testing/inspection
- Strict product quality control
- Fast delivery time



# Flexible and convenient, arbitrary welding Fiber Laser Welding Machine Handheld

The hand-held welding gun has a transmission fiber length of 10 meters, which breaks through the limitations of the workbench and can reach a wider welding range. It is suitable for various complex welds. It can weld any part of the work-piece and at any angle, and it is not easy to fatigue after long-term work.



## Welding comparative analysis

Items		Traditional Welding Machine	Solid Yag	Laser Welding Machine
Welding Quality	Heat Input	High	Low	Low
	Workpiece Deformation /Undercut	Large	Small	Small
	Weld Formation	Fish-Scale Pattern	Fish-Scale Pattern	Optional
	Subsequent Processing	Polished	Polished	No Need
Use Operation	Welding Speed	Slow	Medium	Quick
	Difficulty Of Operation	Difficult	Easy	Easy
Environmental Protection And Safety	Personal Hazard	Large	Little	Little
	Environmental Pollution	High	High	Low
Cost Of Use	Consumables	Welding Electrode	Laser Crystal/Xenon	Protective Gas
	Energy Consumption	Low	High	Low
	Welder Requirements	High	General	Low
	Site Occupation	Small	Large	Small

## Brilliant welding quality, strong weld-seam

Continuous laser mode, smooth weld transition, firm weld; small welding heat affected area, small yellow and black areas on both sides of the weld, small overall deformation of the work-piece, small stacking of the weld surface, no need for secondary grinding treatment , reduce labor and time costs.





## Low cost of usage and maintenance

The elector-optical conversion efficiency of continuous lasers is as high as 30%, which is 10 times more than solid YAG lasers (3%);

Power stability +0.5%;

There is no optical lens in the resonant cavity, and the life of the pump source is more than 100,000 hours, which is basically maintenance-free.



## Four advantages, worry-free welding

1. Adopt integrated design, compact and beautiful structure, with good beam pattern, stable energy and stable performance;
2. Using high-quality fiber laser, excellent beam quality, maintenance-free, photoelectric conversion rate is greater than 30%, and the service life of the laser pumping source is greater than 100,000 hours;
3. Reliable use, fast welding speed, wide range of suitable welding, long service life of consumables and consumable parts, etc.;
4. Fully consider the various parameters of the equipment in mass production, from the details to achieve key parameters adjustable and data display closed loop.

## Integrated design, flexible and convenient

The laser, water tank, and control parts are integrated together, occupying a smaller area, and have low site requirements. It is equipped with movable pulleys, and the workstation can be adjusted at any time according to site requirements, which is convenient and flexible.





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For Welding Consumables And Intelligent Welding & Cutting Equipment

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