

HANDHELD Laser Welding Machine

Efficiency increased by 2-10 times
Save 2 welders
360 degree flexible movement



Handheld Laser Welding Machine Video

More videos about Senfeng fiber laser welding machine, go to Youtube.

What is the fiber laser welding machine?

Fiber Laser Welding is a welding technology used to create a strong joint between several metal components with fiber laser. Fiber laser produces a beam of high-intensity that is concentrated into one spot. This concentrated heat source enables fine, deep welding with high welding speed. Senfeng handheld fiber laser welding machine is used to weld metal plates and metal tubes. For more details about handheld fiber laser welder machine, just send us an email.

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Technical Parameter of senfeng fiber laser welder

As the laser welding equipment manufacturer, Senfeng supply 1kw/1.5kw/2kw fiber laser welding machines for sale.

Model	handheld laser welding machine
Laser Power(kw)	1/1.5/2
Laser Wave Length(nm)	1080
Welding Speed(mm/s)	0-120
Welding Gap	≤1/5 of the thickness of sheet metal
Welding range(mm)	0.5~4 carbon steel; 0.5~4stainless steel; 0.5~3 aluminum
Fiber Length(m)	Standard 10
Cooling Mode	Water cooling
Electromechanical	380V/50HZ 220V optional

6 Main Features of Senfeng laser welder machine



High Efficiency
Increased by 2 to 10 times



High Quality
Smooth welding seam, no subsequent grinding needed



Low Cost
Spare at least 2 welders
80% to 90% power saving



Flexible Operation
360 degree flexible movement welder with no experience can do a good job



Multifunction
6 welding mode with or without wire function as cutter for thin steel



Multiple languages
Language support for Chinese, English, Korean, Japanese, Vietnamese, Russian, Spanish
Localized for customers all over the world

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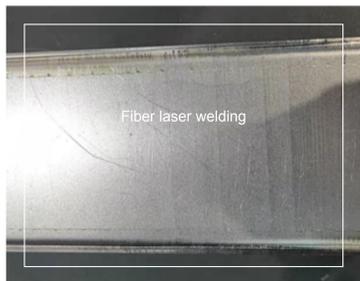
Welding Thickness

1. 1000w/1kw handheld laser welder can weld 0.5-2mm steel;
 2. 1500w/1.5kw fiber laser welder is used to weld 0.5-3mm steel;
 3. 2000w/2kw laser welder can weld 0.5-4mm steel, 0.5-3mm aluminum.
- The above data is based on the triangular light spot.
Due to the difference of the plate and labor, please refer to the actual welding.



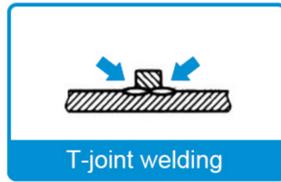
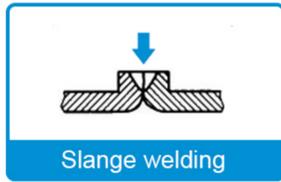
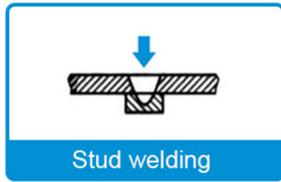
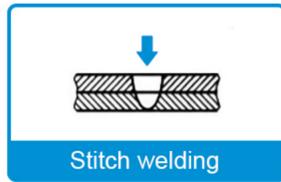
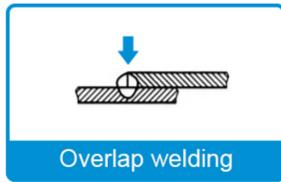
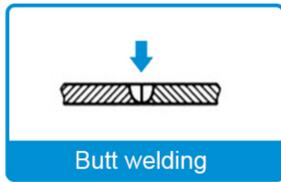
Laser welding vs Argon arc welding

Comparison item	Laser welding	Argon arc welding
Welding method	Spot welding or continuous	Spot welding
Applicable materials	Stainless steel, carbon steel, galvanized sheet, aluminum, etc.	Stainless steel, carbon steel, galvanized sheet
Thickness requirements	0.5—4mm	1—12mm
Workpiece deformation/undercut	Small	Big
Welding speed	0—8m/min	0—1m/min
Subsequent processing	Light or no sanding	Need polishing
Operation difficulty	Simple	Complex
Safety and environmental protection	Relatively safe and environmentally friendly	Not safe and environmentally friendly
Labor costs	General workers (can operate after simple training)	Professional welder
Wearing parts	Lens, nozzle	Argon
Supplies	Argon/Nitrogen	Argon



How does a senfeng laser welding machine work?

Hand-held laser head is light and portable. It can weld any part of the workpiece, and has various welding methods such as butt welding, stack welding, tailored welding. More information about using the laser welding machine, please go to read this [Precautions for Laser Welding](#)



What is a industrial laser welding machine used for ?

Laser welding machine can be used in welding stainless steel, luminum, copper, chromium, nickel, titanium and other metals or alloys. Fiber laser welding machine is widely used in IT industry, medical equipment, communications equipment, aerospace, machinery manufacturing, battery manufacturing, elevator manufacturing, craft gifts, household appliances manufacturing, tooling, gears, automobile shipbuilding, and other industries.



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