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Handheld Fiber Laser Welding Machine

Handheld Fiber Laser Welding Machine, also called Handheld Fiber Laser Welder, Portable Fiber Laser Welding Machine, Manual Fiber Laser Welding Machine, is a new type high-power, high-end continuous welding tool that couples a high-energy laser beam into an optical fiber, collimates it into parallel light through a collimating lens after long-distance transmission, and then focuses on the workpiece for welding.



Solderless

360 degree no dead seam weld

No deformation

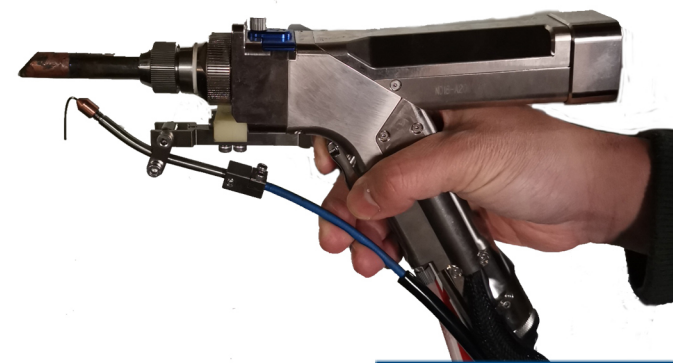
Perfect weld

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JPT fiber laser source
 Factory located in Shenzhen, they are younger than Raycus but now their market occupation is increasing.



WSX laser head
 Smart internal design and interactive control system expand the tolerance range and welding width of the processing parts, and solve the disadvantages of minor laser welding spot, and provide better welding forming.



Water chiller
 The integrated water cooler is more efficient for the welding head and laser cooling.



Fiber cable
 With standard length 15 meters

Handheld welding system Main-SW Ver: Panel-SW Ver.0.0

Output Status <input type="radio"/> LaserOutput <input type="radio"/> GasOutput <input type="radio"/> Reserved0 <input type="radio"/> Output 1	PWM-freq <input type="text" value="0"/> Hz Rise-time <input type="text" value="0"/> ms
Input Status <input type="radio"/> Security <input type="radio"/> Laser-On <input type="radio"/> Foot-On <input type="radio"/> Reset-On	PWM-duty <input type="text" value="0"/> % SwingSpeed <input type="text" value="0"/> Hz
Alarm Status <input type="radio"/> Laser alarm <input type="radio"/> Swing alarm <input type="radio"/> Water alarm <input type="radio"/> Reserved	LaserPower <input type="text" value="0.0"/> v SwingRange <input type="text" value="0.0"/> mm
Function enable Swing <input type="radio"/> Off <input type="radio"/> Laser <input type="radio"/> Off Spotting <input type="radio"/> Off <input type="radio"/> Off	[Advanced] [Process Mode] [Save]

Laser control system
 Laser control system: WSX control system and interface comes with WSX laser head.



Automatic wire filler (Optional)
 This feeding system have stable feeding function(0.8mm/1.0mm/1.2mm), with strong anti-jamming.
 Remark: this function suite for welding on 2 materials what have gap over 0.5mm.

Handheld laser welding machine has the advantages of simple operation, beautiful weld seam, fast welding speed, and no consumables. It can be used for welding various metals sheets and tubes: such as stainless steel plates, iron plates, galvanized plates and CS plates, aluminum plates, brass plates, other metal sheets and tubes.

Technical Parameters

Laser Power	1.5KW
Laser Wave Length	1080nm
Welding Speed	0-120mm/s
Welding Gap	≤1/5 of the thickness of sheet metal
Welding range	0.5~4mm carbon steel,0.5~4mm stainless steel,0.5~2mm aluminium alloy,0.5~2mm brass
Fiber Length	Standard 10m
Cooling Mode	Water cooling
Voltage	380V/50HZ, 220V optional

Welding parameter

Material	Max. Welding Thickness		
	1000W	1500W	2000W
Aluminium Alloy	2mm	3mm	4mm
Stainless Steel	4mm	5mm	6mm
Carbon steel	4mm	5mm	6mm
Galvanized	2.5mm	3mm	4mm
Brass	3mm	3.5mm	4mm
Mild Steel	4mm	5mm	6mm
Iron	4mm	5mm	6mm

Outstanding Features:

1. High Efficiency

The welding speed of laser welding machine is twice of traditional welding method.

2. High Quality

The weld seam is smooth. There is no need to polish the weld seam, saving time and manpower.

3. Low Cost

80% to 90% power savings, processing costs are reduced by 30%.

4. Flexible Operation

Can operate it without experience.

Applications:

Widely used in the IT industry, medical equipment, machinery manufacturing, elevator manufacturing, craft gifts, household appliances manufacturing, automobile shipbuilding and other industries.

