

Indus Arc Handheld Laser Welding Machine



Handheld Laser Welding Machine

The handheld laser welding machine adopts fiber to transmit high energy and density laser, it's flexible and convenient to operate by welding the stainless steel, aluminum alloy and other materials by using the hand held welding machine.

The single-module CW fiber laser source has excellent beam quality based on modular design and water-cooling method, the system is highly integrated, the laser power is continuously adjustable, highly reliable and free of maintenance.

Hand-held welding machine is integrated with fiber lasers, handheld welding head, laser control system, safety light extraction system and water cooling system. The overall design is small, beautiful, and portable, which make it easy for customers to choose their working environment without space limitation.

This set of machine can be widely used in Precision sheet metal fabrication, Flexible Bellows welding, Kitchen equipment, metal door frames, SS enclosures, water bottles, sanitary ware and mold repair industries.

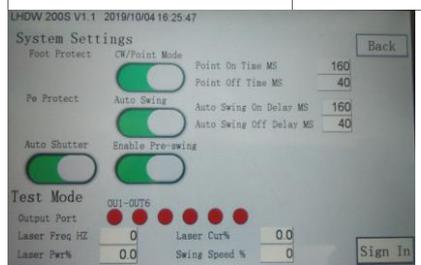


Parameter

Machine Parameter	
Laser power	800 W
	1000W
	1500W
	2000W
Wavelength	1080 nm
Beam quality M ²	2.8
Short-term power instability	±1%
Long-term power instability	±2%
Feeding fiber cable length	15 m

Handheld laser welding head parameter	
Collimating Focal Length	80 mm
Focusing Focal Length	150 mm
Feeding fiber core diameter	50 μm
Beam movement	Fixed
	Wobble
Wobble range (optional)	±6 mm
Wobble frequency (optional)	0-200 Hz
Cooling method	Water

Control panel parameter	
Control Mode	CW
	Pulse
	Modulated
Tuning range of output power	10-100%
Modulation rate	0-20 KHz
Safety loop	Laser stops as soon as welding head leaves working piece
Protective gas	Ar, N2
	He



Applications Laser welding, precision welding, brass welding, stainless steel welding, etc.



Laser welding



Precision welding



Stainless steel, brazing



Steel welding

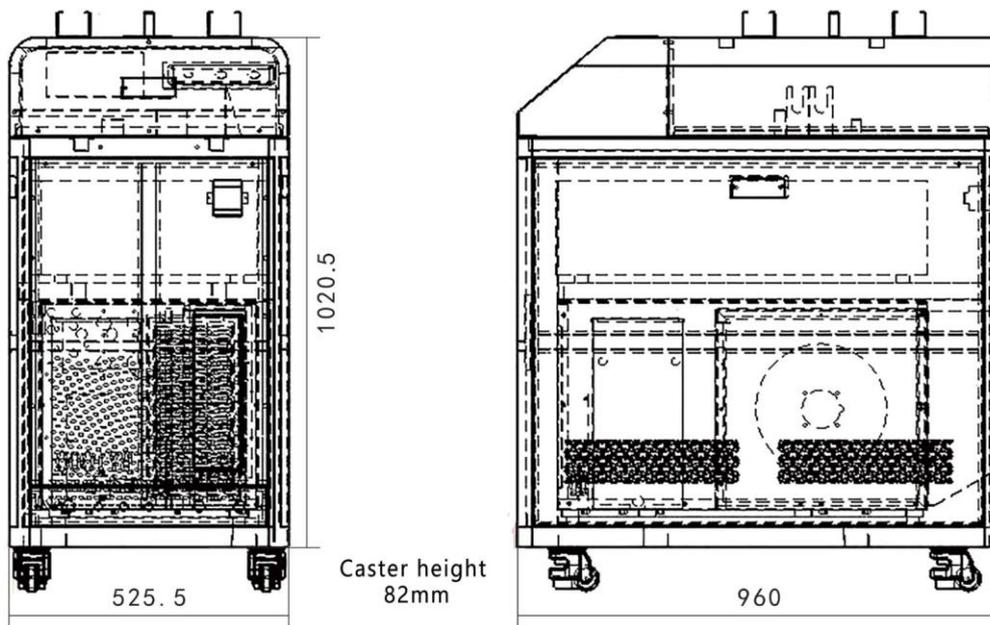


Power battery pole piece welding

Applications Laser welding, precision welding,



Structural Layout (unit : mm)



The picture and the technical parameter are just for your reference. Please be subject to the actual products if anything different or updated.

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