

## EC-1500 Laser Welding Machine



- **The welding speed is faster than the traditional welding speed**
- **Laser welding material consumption is less and has a long life**
- **Easy to operate, novices can also weld beautiful products**
- **Small deformation, firm welding, safer and more environmentally friendly**
- **Hand-held operation welding, flexible and convenient**
- **Able to realize wire filling welding**



## Technical Specification

Model	EC-1500W
Laser power	1500W
Laser wavelength	1064-1080nm
Focal length	150mm
Weldable speed	90-100mm/s
Cooling system	Water-cooled and constant temperature all-in-one
Laser	Maxphotonics/Raycus
Adjustable spot width	0.2~5mm
The above parameters are laboratory test results, subject to actual operating conditions.	

laser head



- Multiple mode of optical spot could be easily switched.
- Equipped with fast speed servo motor with dual axis.
- Numerical screen assists you to handle the welding data.
- Circulating waterway could cool down the welding gun.
- The whole structure follows the ergonomics design.
- Import high-end chips and multiple safety measures.
- Ports of motherboard could fight with 20 volt statistic electricity.

## Technical Specification

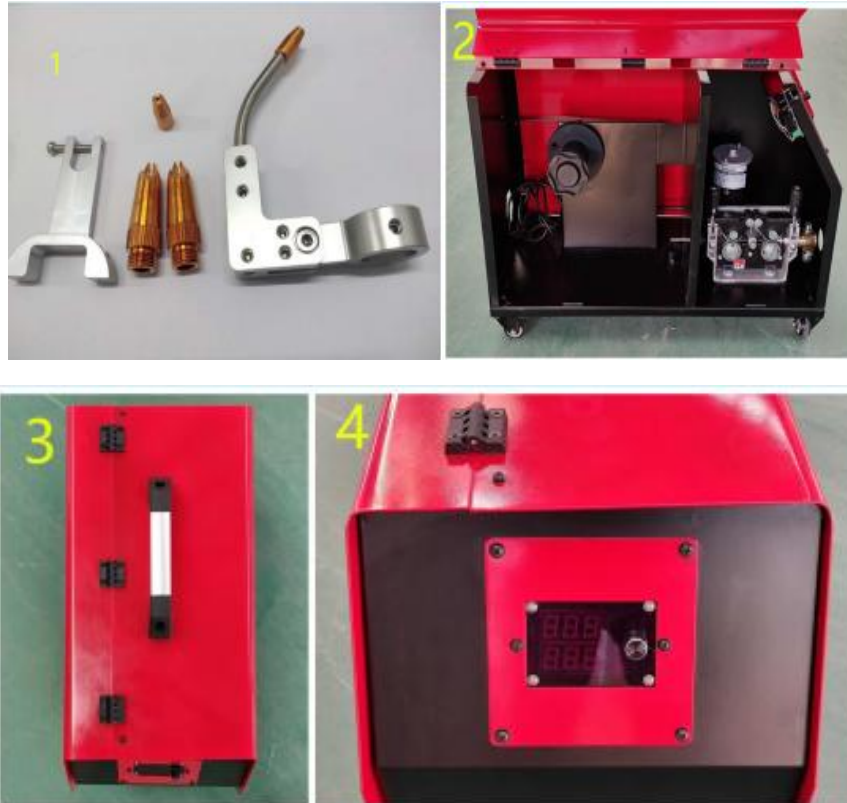
Type of port:	QBH
Range of power:	1500-3000W
Wavelength of laser:	1064-1080nm
Optical spot adjustment:	0.2-5mm
Collimating distance	50mm
Focusing distance:	150mm
Protective lens:	D18*2mm
Cooling method:	Water cooling
Weight of welding head:	0.7KG
The above parameters are laboratory test results, subject to actual operating conditions.	

## Control card and driver



- Many protective measure are added in the part of signal control
- Signal output: Communicate with the laser control card, and the signal feed back to the LCD screen.
- 15V input:  $\pm 15$  negative power supply would connect to the galvanometer motor power supply end.
- X: Connect to the X-axis motor communication line.
- Y: Connect to the Y-axis motor communication line.
- Control box shell: Aluminum oxide shell could shield the interference.

Wire loading machine



1.Wire loading clamp; Wire loading nozzle; Welding nozzle.

2.The internal structure of wire loading machine adopts high-precision and full-protected motor

3.China red closed design of case with handle.

4.Wire loading regulator: The speed of wire loading could be witnessed on the LED screen, and the high-precision speed control knob would expand the control range.

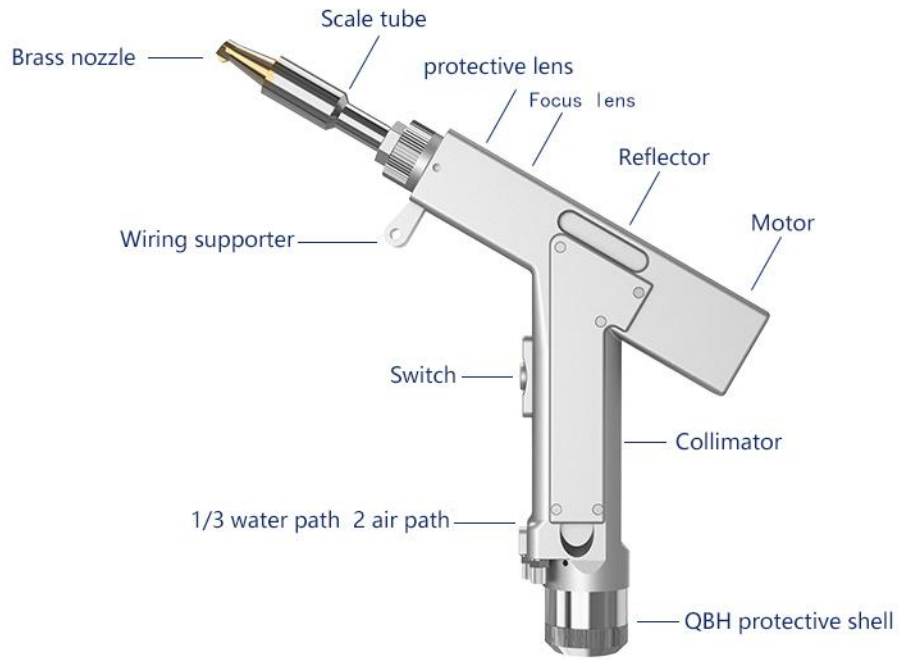
## Welding Capacity&Specification

### 1500W Welding data (for reference only)

welding material	Welding form	thickness (mm)	laser power (W)	Welding effect	Protective gas
carbon steel	Splicing welding	1	450	Welding through	Argon/Nitrogen /Carbon dioxide *Argon gas effect good
	Splicing welding	2	850		
	Splicing welding	3	1200		
	Splicing welding	4	1450		
stainless steel	Splicing welding	1	450		
	Splicing welding	2	850		
	Splicing welding	3	1200		
	Splicing welding	4	1450		
Aluminum plate	Splicing welding	1	700		
	Splicing welding	2	1000		
	Splicing welding	3	1350		
	Splicing welding	4	1500		
remarks	Due to differences in equipment configuration and welding processes adopted by different customers, this data is for reference only				



More Details





## Product performance and accessories

- Suitable for welding various metal materials, such as carbon steel, stainless steel, aluminum, etc
- Continuous or pulsed light emission can achieve both thermal conductivity welding and continuous deep penetration welding
- Using continuous fiber lasers for excellent beam quality
- Small thermal deformation and heat affected zone;
- Combined with automated mechanisms such as robotic arms, it can achieve automated processing;
- Capable of achieving wire filling welding

No.	Title	Brand	Quantity
1	Laser power source	Raycus/Max	1 set
2	Water cooling machine	Junyi Laser	1 set
3	Welding gun	SUP23T	1 set
4	Software system	Suplaser	1 set
5	Wire-loading device	Junyi Laser	1 set

# Applications

