



Handheld Fiber Laser Welding Machine

AW Series







- Compared with the traditional welding equipment, the handheld laser welder speed is more than 2 times of the solid YAG laser welding speed, 3-5 times of the ARC welding speed.
- Photoelectric conversion efficiency is more than 30%, while solid YAG laser conversion efficiency is only 3%, low energy consumption, reduce
 production and processing unnecessary costs.
- No raised welding spot on the welding surface, no need for polishing and grinding process, save working time, beautiful appearance.
- 5-meter-long imported optical fiber connection laser head, which can be used for long-distance welding of products that are large and difficult to move
- High energy density, low heat input, small thermal deformation, narrow melting zone and heat-affected zone.
- Compared with the contact welding, the laser welding does not need the electrode, reduces the daily maintenance cost, greatly improves the work efficiency.
- The intelligent internal design and interactive control system expand the tolerance range and the weld width of the processing parts solves the defect of a small laser welding spot and provides better welding forming.
- Multiple security alarms, which automatically lock the light after removing the workpiece.
- Imported ceramic condenser cavity, corrosion resistance, high-temperature resistance, long service life.

Components



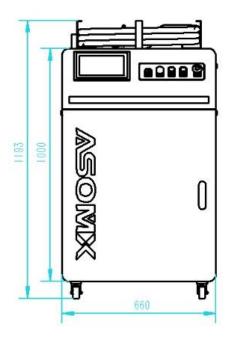
Specifications

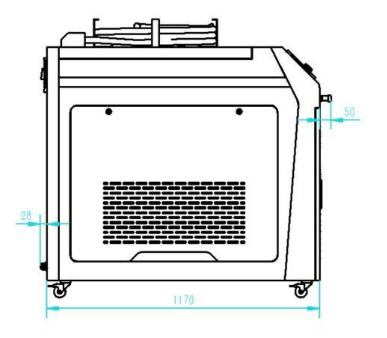
AW Series
1000W/1500W/2000W
1080±5nm
Single-Core Junction Semiconductor Module
Xinghong / Qilin / WSX / Hanwei
8000mm
10000mm
QBH
5~20KHz
50μm/100μm
Ф0.2-5mm adjustable
0.2-3mm
10-100%
±0.01mm
Industrial Circulating Water Cooling
M2<1.1
±2%
220V/380V±10% 50/60Hz
7.5kw/8.5kw/10kw
Nitrogen, Argon and other inert gases
0°C-45°C
≤70%
100000hours
200kg

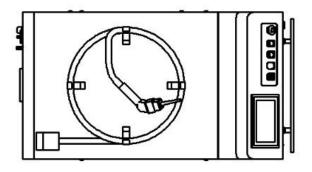
Welding Ability

Items Thickness Material Power		Welding Penetration Maximum Material	Welding Maximum Material
Stainless Steel	1000w	3mm	4mm
	1500w	4mm	5mm
	2000w	5mm	6mm
Galvanized Sheet	1000w	2mm	3mm
	1500w	3mm	5mm
	2000w	3mm	6mm
Iron	1000w	3mm	5mm
	1500w	4mm	6mm
	2000w	4mm	6mm
Mild Steel	1000w	3mm	5mm
	1500w	4mm	6mm
	2000w	4mm	6mm
Aluminum	1000w	1 mm	2mm
	1500w	2mm	3mm
	2000w	3mm	4mm
Brass	1000w	1 mm	2mm
	1500w	2mm	2mm
	2000w	2mm	3mm

Layout







Samples

