

## Hand-held Fiber Laser Welding Machine



### Feature

Laser welding is a high-energy-density laser beam as a heat source, which locally heats the material in a small area and melts the material to form a specific molten pool to achieve the effect of welding. Laser welding is mainly used for welding of thin-wall materials, precision parts, etc., which can realize spot welding, splicing welding, seal welding, overlap welding, etc. The heat distortion is small, the weld seam is beautiful and smooth, and the weld seam quality is high, and no secondary grinding treatment is required. In recent years, laser welding has been widely used for welding stainless steel, carbon steel, galvanized sheet, copper, aluminum and other products.

The hand-held laser welding machine uses a hand-held swing welding head, which is flexible and simple to operate without the need for professional welder technology, Suitable for small batch and large batch production.

Widely used in sheet metal processing, kitchen cabinets, cabinets, stair handrails, elevator escalators, display shelves, doors and windows, advertising models, stainless steel products and many other industries.



## Technical Parameters

Model	MY-W1000H	MY-W1500H	MY-W2000H
Power	1000W	1500W	2000W
Fiber Laser Source	China Raycus		
Laser Wavelength	1080±5nm		
Working Mode	Continuous / Modulatable		
Thickness of material for welding	≤4mm		
Fiber Length	10M (20m optional)		
Maximum Frequency	20Khz		
Lifespan of Fiber Laser Source	Max. 100 000H		
Output Power of Laser	5-95% Adjustable		
Scanning Speed	≤8000mm		
Welding Speed	1-120mm/s		
Auxiliary Gas	Nitrogen (purity 99.999%)		
Power Stability (8h)	2%		
System Operation Environment	15~35 °C (TEMPERATURE) / 10-70% (HUMIDITY)		
Cooling Mode	Water Cooling (BUILT-IN)		
Power Input	AC220V/50Hz/1P or AC110V/60Hz/1P		
Power Consumption	~10KW	~12KW	~13KW
Dimension (L*W*H)	62*125*140cm (Welder) 70*20*45cm (Wire Feeder)	62*125*140cm (Welder) 70*20*45cm (Wire Feeder)	62*125*140cm (Welder) 70*20*45cm (Wire Feeder)
Net Weight	270KG	280KG	300KG
Gross Weight	360KG	370KG	390KG

## Process Comparison

Compare Items	Traditional Welding	Laser Welding
Heat on workpiece	Very high	Low
Deformation of workpiece, undercut	Big	Small
Bonding Strength with base material	General	Very good
Follow-up Process	Sanding	No sanding or little sanding required
Welding Speed	General	3 times more than argon arc welding
Applicable Materials	Stainless steel, carbon steel, galvanized sheet	Stainless steel, carbon steel, galvanized sheet, aluminum alloy, copper
Operating	Complex	Easy
Operator safety	Unsafe	Safe
Environmental Impact	Not friendly	Environmental protection
Welding Fault Tolerance	Good	Good
Sewing Welding	No	Yes
Spot width Adjustable	No	Yes
Welding Scar	Clear	Unclear
Power Consumption	High	Low
Cost of Consumables	High	Low
Welding quality	General	Very Good

## Shipment

Within 3~7 working days after receiving your payment.

## Training

The local training is not necessary, because the client can operate the machine very well after he takes 30 minutes to watch our videos and read the user manual.



## WARRANTY PERIOD FOR MACHINE & PARTS

No.	Item	Picture	Warranty Period	Remarks
1	Machine Frame		2 Years	
2	Fiber Laser Source		2 Years	
3	Controller for fiber laser source		1 Year	
4	Controller for laser head		1 Year	
5	Touch Screen		1 Year	
6	Water-cooling Chiller		1 Year	
7	Protecting Mirror		3 months	<a href="#">Consumable</a>
8	Focal Lens	N/A	6 months	<a href="#">Consumable</a>
9	Collimating Lens	N/A	6 months	<a href="#">Consumable</a>
10	1.2mm Nozzle		3 months	For <b>external</b> corner welding for 1.0mm wire <a href="#">Consumable</a>
11	1.4mm Nozzle		3 months	For <b>external</b> corner welding for 1.2mm wire <a href="#">Consumable</a>
12	1.8mm Nozzle		3 months	For <b>external</b> corner welding for 1.4mm wire <a href="#">Consumable</a>
13	1.4mm Nozzle		3 months	For <b>internal</b> corner welding for 1.0/1.2mm wire <a href="#">Consumable</a>
14	1.8mm Nozzle		3 months	For <b>internal</b> corner welding for 1.2/1.4mm wire <a href="#">Consumable</a>
15	U-shaped Nozzle		3 months	For welding without gas <a href="#">Consumable</a>
16	Cutting Nozzle		3 months	For thin material cutting <a href="#">Consumable</a>

## PACKING LIST

- free of charge

No.	Item	Specification	Quantity	Remarks
1	Machine	1000/1500/2000W fiber laser source	1 pc	Built-in
		Water-cooling Chiller	1 pc	Built-in
		Controller for fiber laser source	1 pc	Built-in
		Controller for laser head	1 pc	Built-in
		Touch Screen	1 pc	Built-in
2	Wire Feeder	Standard	1 pc	
3	Wire	1.0mm 304# S.S.	1 pc	for 1.2mm Nozzle
4	Wire	1.0mm 5356 aluminum	1 pc	for 1.2/1.4mm Nozzle
5	Protecting Mirror	Standard	5 pcs	
6	Nozzle	1.2mm	5 pcs	For <b>external</b> corner welding
		1.4mm	5 pcs	
		1.8mm	5 pcs	
7	Nozzle	1.4mm	5 pcs	For <b>internal</b> welding
		1.8mm	5 pcs	
8	Nozzle	U-shaped	2 pcs	For welding without gas
9	Nozzle	For Cutting	2 pcs	For thin material cutting
10	Tool Kits	Standard	1 set	

## Recommended Accessories for stock

- to be paid

No.	Item	Specification	Quantity	Remarks
1	Wire	1.0mm 304# S.S.	1 pc	We advise you to buy it from your local market
		1.2mm 304# S.S.	1 pc	
		1.6mm 304# S.S.	1 pc	
2	Wire	1.0mm 5356 aluminum	1 pc	We advise you to buy it from your local market
		1.2mm 5356 aluminum	1 pc	
3	Protecting Mirror	Standard	5 pcs	
4	Focal Lens	Standard	1 pc	
5	Collimating Lens	Standard	1 pc	
6	Nozzle	1.2mm	5 pcs	For <b>external</b> corner welding
		1.4mm	5 pcs	
		1.8mm	5 pcs	
7	Nozzle	1.4mm	5 pcs	For <b>internal</b> corner welding
		1.8mm	5 pcs	
8	Nozzle	U-shaped	2 pcs	For welding without gas
9	Nozzle	For Cutting	2 pcs	For thin material cutting



## SAMPLE GALLERY

