



Laser Welding

FIBER LASERS

PRESS BRAKES

GUILLOTINE

LASER WELDING

Handheld laser welding machine

SPECIFICATION



Handheld welding machine introduction

LeMans handheld fiber laser welding machine adopts the latest generation of fiber laser to realize multi-fiber simultaneous output. Compared with traditional hard optical output system, it can improve the degree of processing freedom, and can simultaneously process multiple beams and multiple stations. Machining provides conditions for more precise welding. It has the advantages of simple operation, beautiful weld seam, fast welding speed and no consumables. It can be welded in metal materials such as thin stainless steel plate, iron plate and galvanized plate, which can perfectly replace traditional argon arc welding, electric welding and other processes.

The hand-held laser welding machine can be widely used in complex and irregular welding processes in kitchen cabinets, stair elevators, shelves, ovens, stainless steel door and window guardrails, distribution boxes, and stainless steel homes.



1	Device name	Handheld fiber laser welding machine
2	Laser power	500W/800W/1000W/1500W/2000W/3000W
3	Laser wavelength	1070 NM
4	Fiber length	Standard 10M maximum support 15M
5	Way of working	Continuous / modulation
6	Speed Range	0~120 mm/s
7	Cooling Water	Industrial thermostatic water tank
8	Working Temperature	15~35 ?
9	Working humidity	< 70%No condensation
10	Welding thickness	0.5-3mm
11	Welding gap requirements	≤0.5mm
12	Voltage	380V

Welding Compare

Comparison Project	Traditional Welding	Laser Welding	New Laser Welding
Heat input	Very high	Low	Low
Deformation	Big	Small	Small
Base Metal Bond strength	general	good	Very good
Final Product Processing	Polishing	No need to polish	No need to polish
Welding speed	general	2 times of argon arc welding	2 times of argon arc welding
Material	SS. CS.GS	SS. CS.GS	SS. CS.GS
Consumables	More	Less	Less
Operation difficulty	complex	General	Sample
Safety	Unsafe	Safe	Safe
Environment	Polluted	Environmental	Environmental
Fault tolerance	Good	not good	Good
Swing welding	No	No	Yes
Spot width adjustable	No	No	Yes
Welding quality	bad	General	Good

Melt depth data

power/Melt depth	stainless steel	Carbon steel	Galvanized sheet
500W	0.5-0.8mm	0.5-0.8mm	0.5-0.8mm
800W	0.5-1.2mm	0.5-1.2mm	0.5-1.0mm
1000W	0.5-1.5mm	0.5-1.5mm	0.5-1.2mm
1500W	0.5-2.0mm	0.5-2.0mm	0.5-1.8mm
2000W	0.5-3mm	0.5-3mm	0.5-2.5mm



Handheld laser welding machine features:

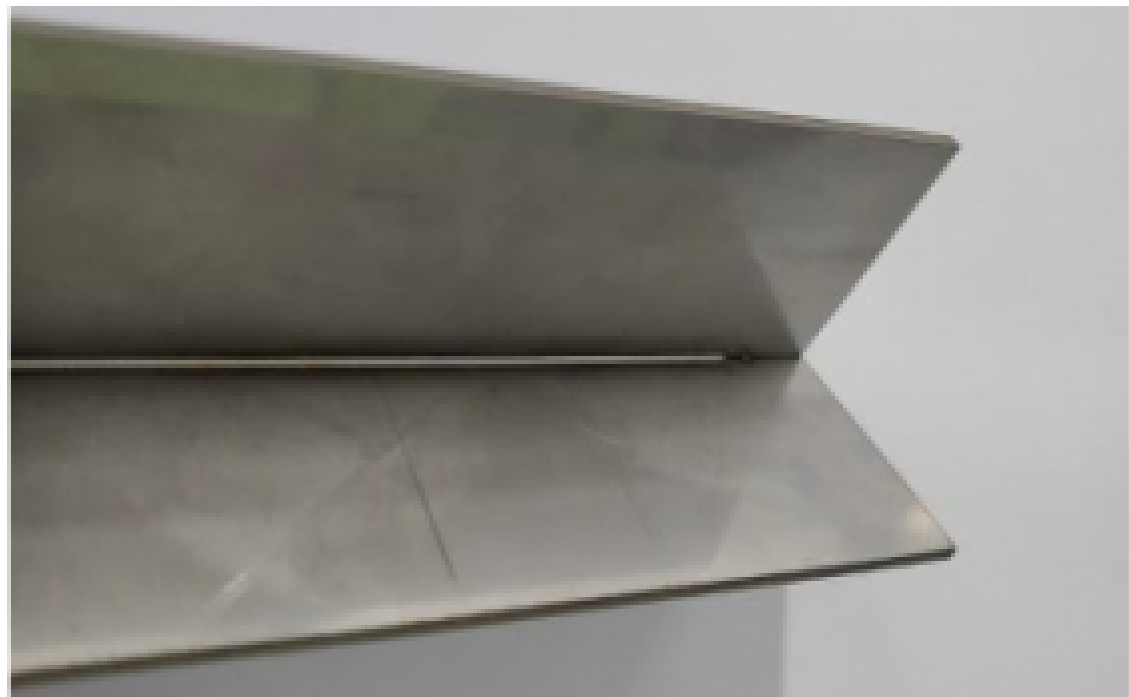
- Simple and easy to operate, the weld is not deformed;
- Laser output is stable, ensuring weld consistency;
- High power density after laser focusing;
- deep, and small deformation.



Solderless



360 degree no dead seam weld



No deformation of the workpiece



Perfect weld

The weld seam is smooth and beautiful, the welding workpiece has no deformation, the welding is firm, and no subsequent grinding process is required, which saves time and cost.



360 degree without dead angle micro soldering

After the laser beam is focused, a small spot can be obtained, which can be accurately positioned and used in the group welding of micro and small size workpieces for massproduction. Mainly for the welding of thin-walled materials and precision parts, it can realize spot welding, butt welding, stack welding, sealing welding, etc., high aspect ratio, small weldwidth, small heat affected zone, small deformation, fast welding speed, no need to be processed after welding or simply processed.



VS



LeMans laser welding

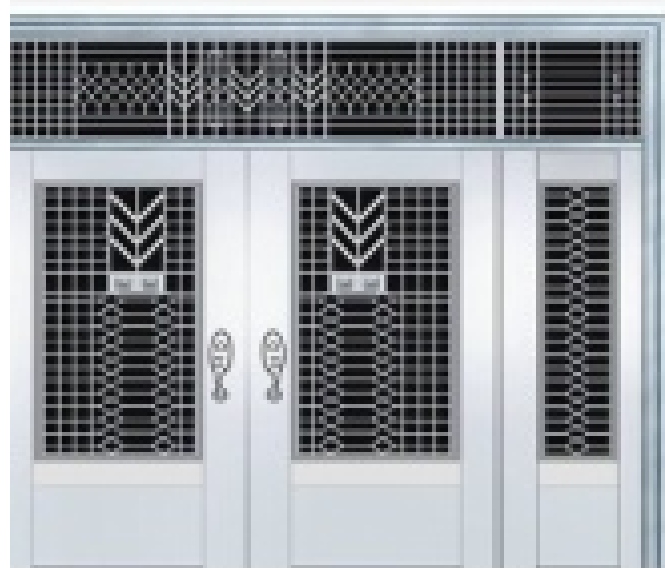
Traditional welding

Fast, easy to operate, labor saving

Fast welding speed, 2-10 times faster than traditional welding, one machine can replace at least 2 welders a year

Long life working, safer and more environmentally friendly

Laser welding is with low consumables for micro soldering.



Industry application

Cabinet kitchen, staircase elevator, shelf, oven, stainless steel door and window guardrail, distribution box, stainless steel furnishings and other industries.

Contact us

* Required fields

Whether you need a technical solution, general information, want to know a solution to a problem or just find the right contact person, LeMans specialists are always ready to help You.



Model

Company

Name *

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Phone *

Message

SEND

LeMans

 Zengrova 110, Czech Republic 280 02 Kolín IV

 info@lemans-cnc.cz



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Development of Design Studio K2D