



English ▾

# Handheld Laser Welding Machine



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Handheld Laser Welding Machine

The handheld laser welding machine is a tool for welding metal plates. It is easy to operate, small weld width, small heat-affected zone, small deformation, fast welding speed, smooth and beautiful welding.

<b>Model</b>	1000W, 1500W, 2000W
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**ASK FOR QUOTE**



## Product description:

The handheld laser welding machine uses a new generation of fiber lasers to fill the gap of handheld welding in the laser equipment industry. It has the advantages of simple operation, beautiful weld seam, fast welding speed, and no consumables. The welding of materials can perfectly replace the traditional argon arc welding and electric welding processes.

## Principle of handheld laser welding machine:

Laser welding uses high-energy laser pulses to locally heat the material in a small area. The energy of the laser radiation diffuses into the material through heat conduction, and the material melts to form a specific molten pool.

## Product parameters:

Laser wavelength: 1064nm

Pulse width: 15ms

Laser frequency: 50HZ

Light spot range: 0.3-3mm

Automatic table travel: X = 300mm Y = 200mm

Worktable moving speed: <= 100mm / s

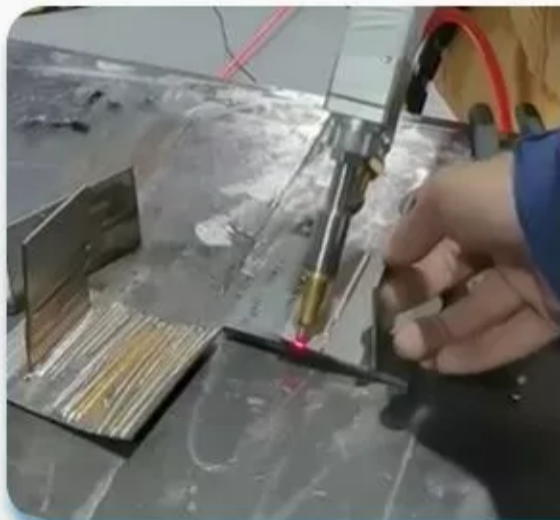
Control system: CNC

## Welding penetration data of handheld laser welding machine



Power	Material	stainless steel	Carbon steel	Galvanized sheet
1000w		4mm	4mm	3mm
1500w		5mm	5mm	4mm
2000w		6mm	6mm	5mm

**Product configuration**



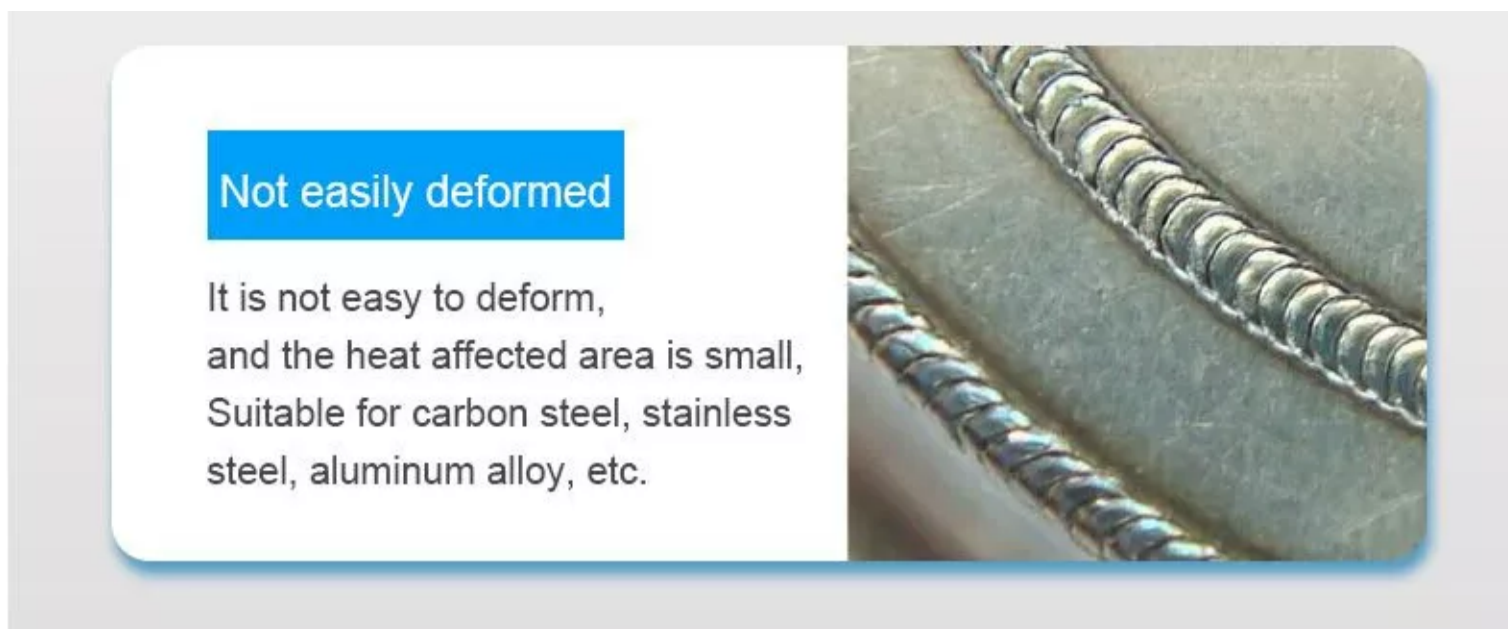
**Infrared precise positioning**

Welding head position and welding position verification,  
Accurate welding position,  
Beautiful welding seam



**Easy to operate**

Humanized design, LCD screen display, easy operation with centralized buttons

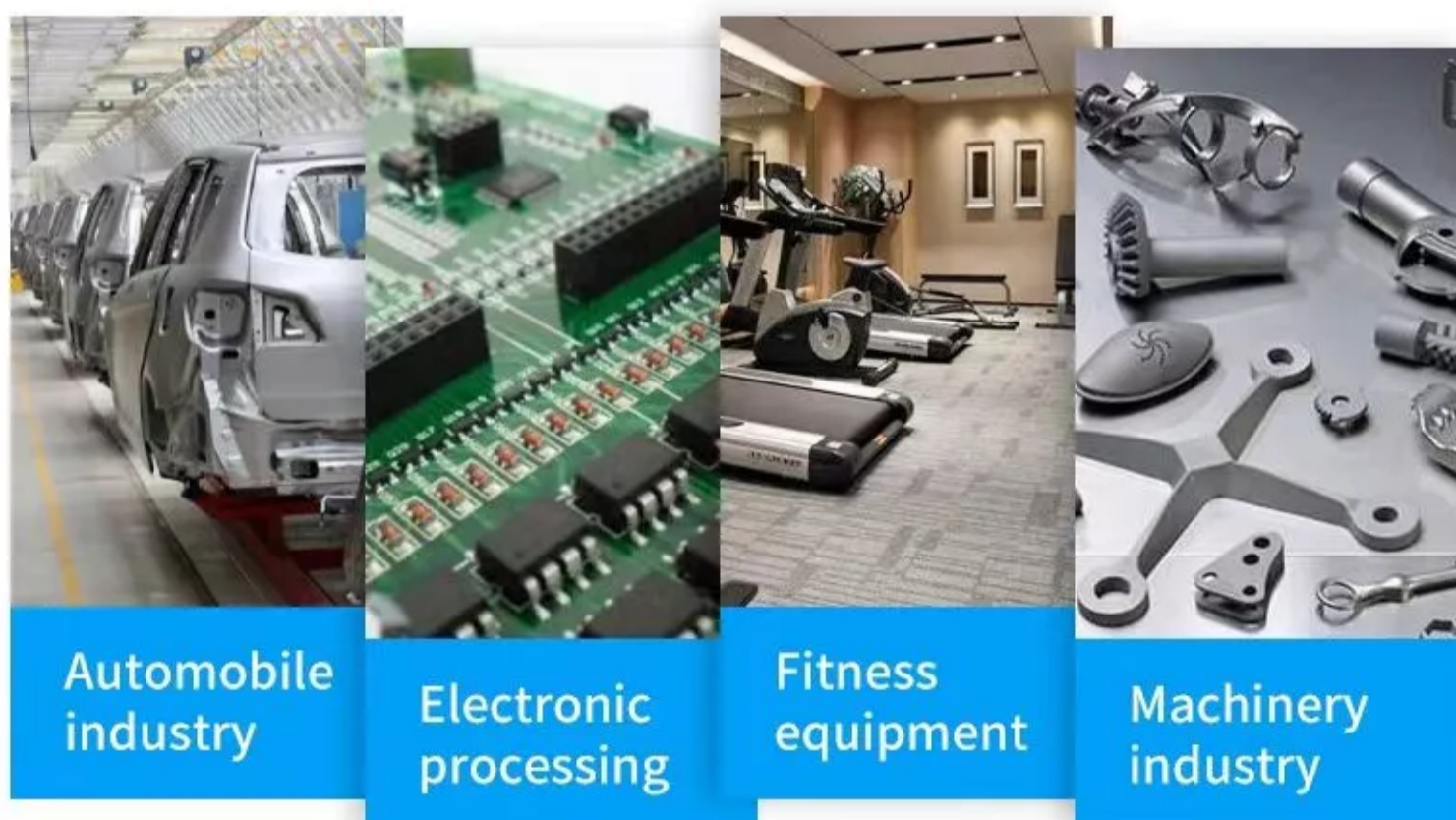


### Product advantages

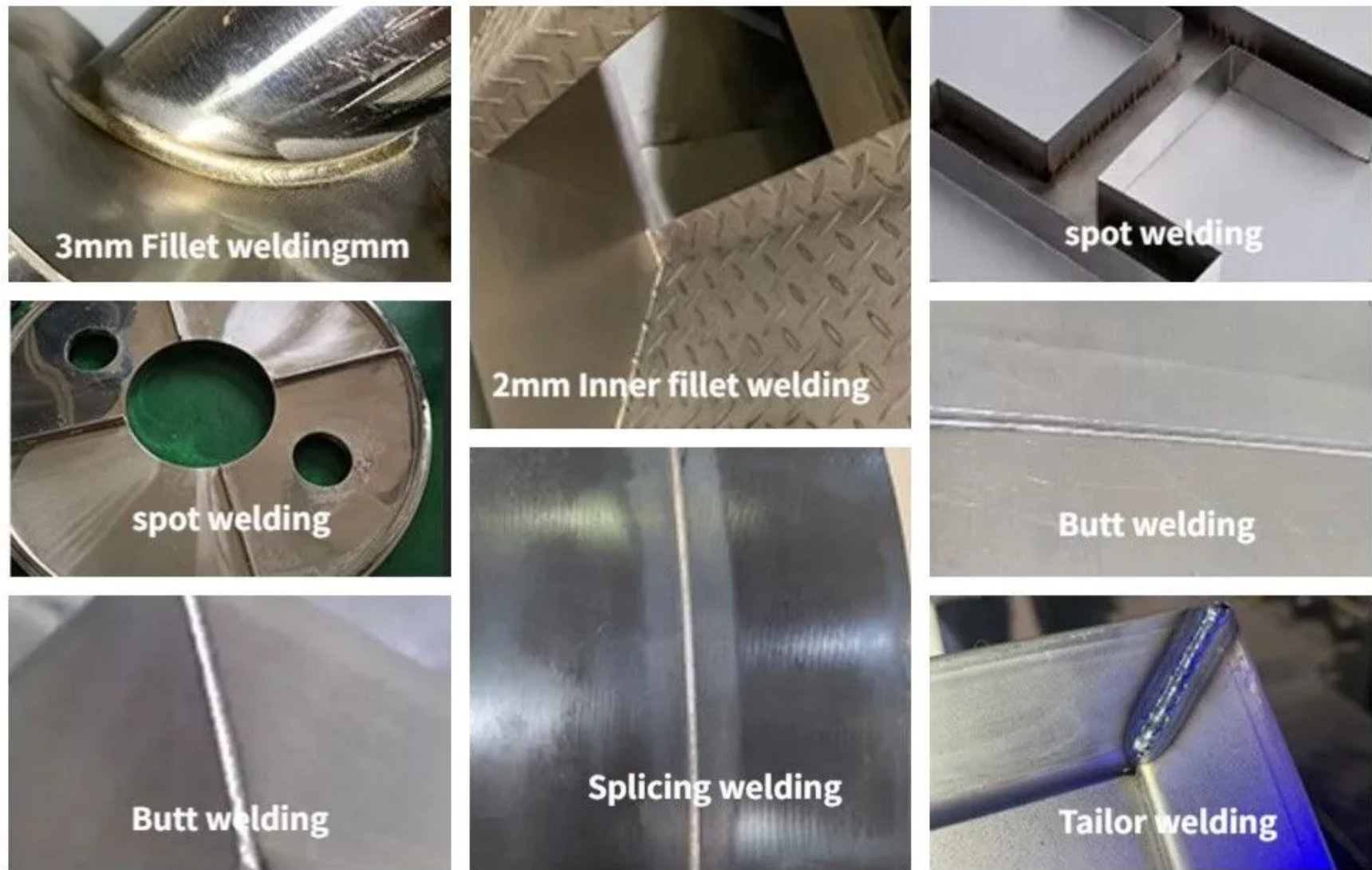
1. The control function is simple and easy to understand, and the button design makes it easy to use after starting. The laser beam quality is excellent, the welding speed is fast, and the weld seam is firm and beautiful, which brings efficient and perfect welding solutions to users. The welding spot is smooth and beautiful, and the welding seam is smooth without pores.
2. The working mode of the hand-held optical fiber welding machine, hand welding, flexible and convenient, and longer welding distance. The welding affected area is small, will not cause deformation, blackening, and trace problems on the back, and the welding depth is large, the welding is firm and the melting is sufficient.
3. Applicable to all kinds of complicated welding seams and hand-held welding heads to overcome the limitations of the workbench. The hand-held welding torch can weld any position and any angle of the workpiece. The photoelectric conversion rate is high, the energy consumption is low, and long-term use can save a lot of processing costs.
4. Adopt four-dimensional ball screw worktable, imported servo control system, high welding precision and fast speed, equipped with rotating worktable, can realize automatic welding of large quantities of products

### Application field

Sheet metal processing, rail transportation, automobiles, construction machinery, agricultural and forestry machinery, electrical manufacturing, elevator manufacturing, household appliances, food machinery, textile machinery, tool processing, petroleum machinery, food machinery, kitchenware and sanitary ware, decorative advertising, laser external processing services, etc. Multiple.



### Product Effect of Handheld Laser Welding Machine



A real shot of handheld laser welding machine workshop



#### DOWELL after-sales service:

1. Free sample cutting service: provide you with proofing and cutting services for free, we will live video broadcast with you in the factory, you can see the cutting process and results, or send samples to you
2. Design solutions: According to your product processing requirements, we provide you with unique product solutions to improve production efficiency and better processing quality.

- 3. Customized machine design: According to the customer's application, we may modify our machine according to the customer's convenience and high production efficiency.
- 4. If there is a quality problem with the parts of the system during the warranty period, our company's service engineer will provide telephone or on-site service at any time
- 5. Our company provides lifelong maintenance services for the products provided and provides equipment-related consultation and guidance at any time. After the warranty period, our company still provides customers with extensive and preferential technical support and spare parts supply.
- 6. After receiving the anti-expensive time, the effective time is 2 hours to communicate through telephone communication. After the equipment warranty expires, maintenance services will be provided for life.

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12 years of laser cutting equipment manufacturing experience, making cutting easier

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