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# Product

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## Handheld Laser Welding Machin

Application: Laser Welding

Laser Type: Fiber Laser

Laser wavelength: 1064nm

Output Power(W): 1000W

Application Materials: 0.5~4mm Carbon Steel,

0.5~4mm Stainless Steel,

0.5~2mm Aluminium alloy,

0.5~2mm Brass

Brand Name: CARMAN HAAS

Certification: CE, ISO

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PRODUCT DETAIL

PRODUCT TAGS



## Product Description:

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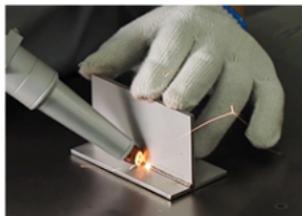
Laser welding is a high efficient precision welding method which is in the use of high energy density laser beam as a heat source. Laser welding is one of the important aspects of laser processing technology. Laser radiates and heats the work piece surface, The surface heat diffuses to the inside through heat conduction, Then the laser makes the work piece melting and form the specific welding pool by controlling the laser pulse width, energy, peak power and repetition frequency. Due to its unique advantages, it has been successfully applied to the precise welding for micro parts and small parts.

Laser welding is fusing welding technology, laser welder puts laser beam as the energy source, and make it impact on the weld element joints to realize welding .

## Machine Features:

- 1.The energy density is high, the heat input is low, the amount of thermal deformation is small, and the melting zone and the heat-affected zone are narrow and deep.
- 2.High cooling rate, which can weld fine weld structure and good joint performance.
- 3.Compared with contact welding, laser welding eliminates the need for electrodes, reducing daily maintenance costs and greatly increasing work efficiency.
- 4.The weld seam is thin, the penetration depth is large, the taper is small, the precision is high, the appearance is smooth, flat and beautiful.
- 5.No consumables, small size, flexible processing, low operating and maintenance costs.
- 6.The laser is transmitted through fiber optics and can be used in conjunction with a pipeline or robot.

## WELDING METHOD



Vertical Welding



Parallel Welding



Stitch Welding

## Machine Advantage:

### 1. High efficiency

Speed is faster than the traditional welding speed by more than two times.

### 2. High quality

Smooth and beautiful welding seam,without subsequent grinding, saving time and cost.

### 3. Low cost

80% to 90% power savings, processing costs are reduced by 30%

### 4. Flexible operation

Easy operation,no need experience can do a good job.

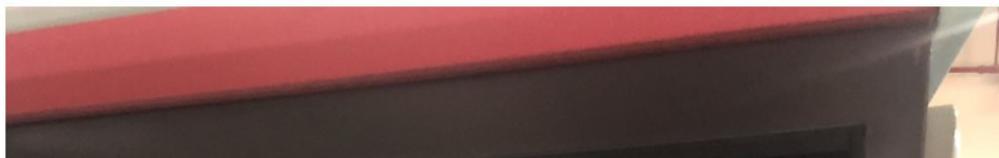


CARMAN HAAS laser welding machine is widely used in the IT industry, medical equipment, communications equipment, aerospace, machinery manufacturing, battery manufacturing, elev

manufacturing, craft gifts, household appliances manufacturing, tooling, gears, automobile shipbuilding, watches and clocks, jewelry and other industries.

### Applicable materials:

This machine is suitable for welding of gold, silver, titanium, nickel, tin, copper, aluminum and other metal and its alloy material, can achieve the same precision welding bet metal and dissimilar metals, has been widely used in aerospace equipment, shipbuilding, instrumentation, mechanical and electrical products, automotive and other industri





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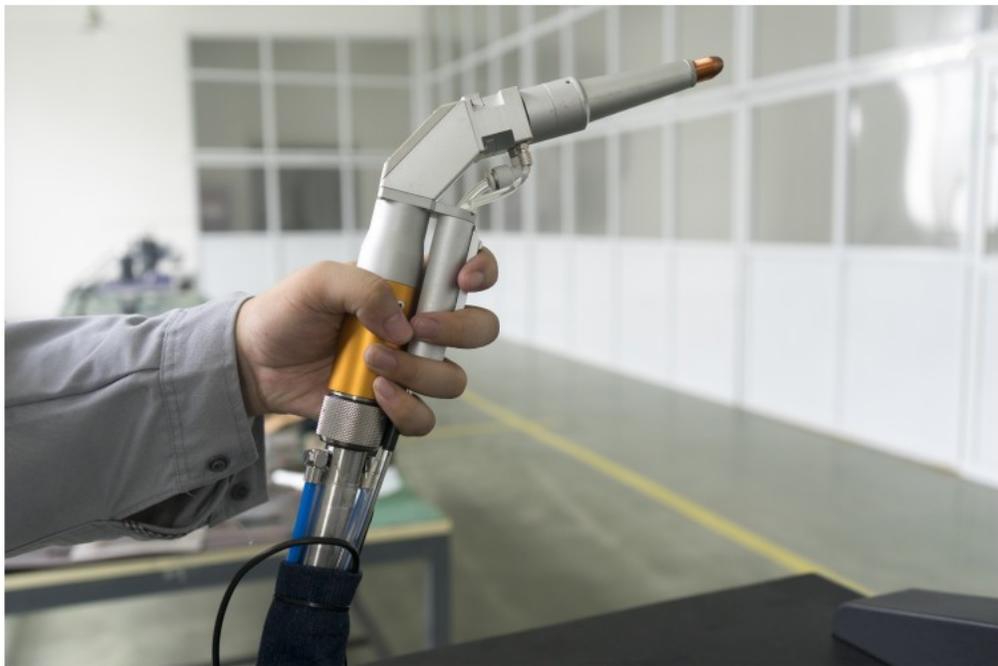
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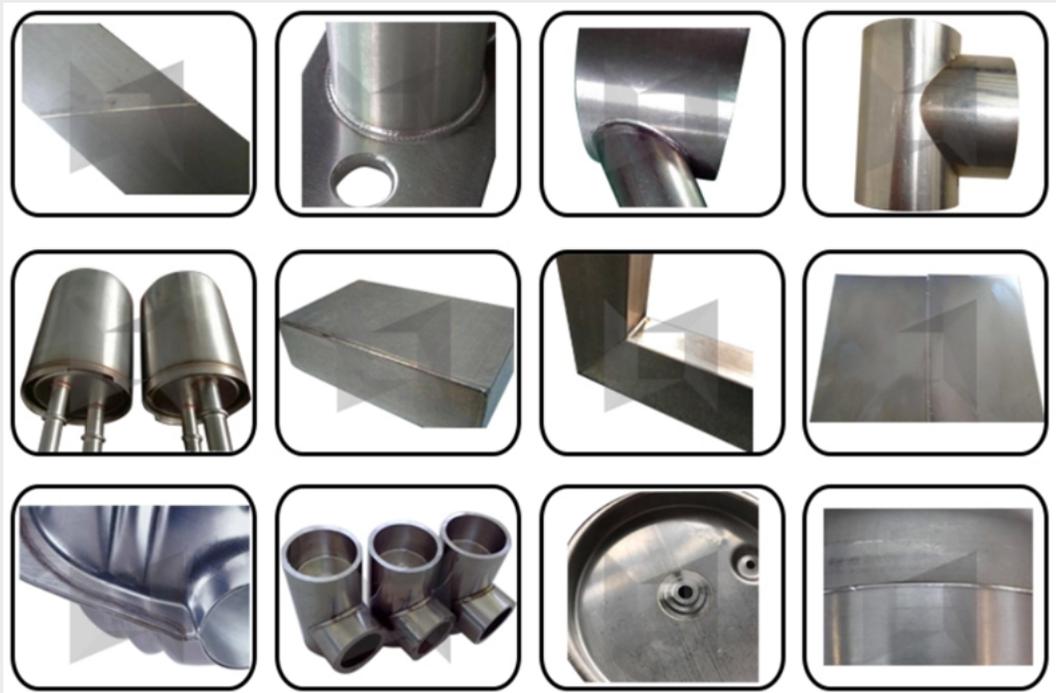
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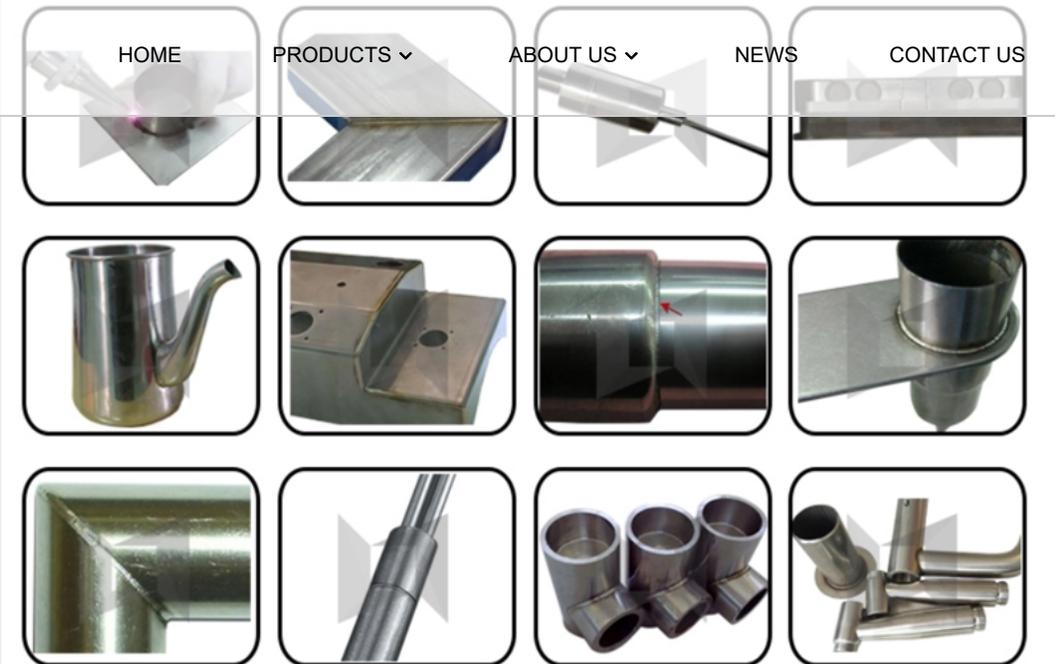
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## Machine Technical Parameters:

Model:	CHLW-500W/800W/1000W
Laser power	500W / 800W / 1000W
Laser Source	Raycus / JPT / MAX
Operating Voltage	AC380V 50Hz
Gross Power	≤ 5000W
Center wavelength	1080±5nm
Output power stability	<2%
Laser frequency	50Hz-5KHz
Adjustable power range	5-95%
Beam quality	1.1
Optimal operating environment	Temperature 10-35 ° C, humidity 20% -80%
Electricity demand	AC220V
Output fiber length	5/10/15m (Optional)
Cooling method	Water Cooling
Gas Source	0.2Mpa (Argon, Nitrogen )
Packing Dimensions	115*70*128cm
Gross Weight	218kg
Cooling water temperature	20-25 ° C
Average consumed power	2000/4000W

## Welding Samples:





## Our Service

### » Pre-sale service

#### (1) Free sample marking

For free sample testing, please send us your file, we will do marking here and make video to show you the effect, or send sample to you for checking quality.

#### (2) Customized machine design

According to customer's application, we may revise our machine accordingly for customer's convenience and high production efficiency.

### » After-sale Service

#### (1) Installation:

After the machine reach the buyer's site, the engineers from the seller are responsible for machine installation and commissioning by using the special tools under the help buyer. Buyer should pay for our engineer visa fee, air tickets, accommodation, meals etc.

#### (2) Training:

In order to provide training in safe operation, programming and maintenance, Machine Supplier shall provide qualified instructors after Buyer finally installs the equipment.

1. Mechanical maintenance training
2. Gas / electronic maintenance training
3. Optical maintenance training
4. Programming training
5. Advanced operation training
6. Laser safety training

## Packing List:

P/N	Item Name		Quant
	Hanheld Welding Machine	Carmanhaas	1 set
<b>Free Accessories</b>			
1	Protective Lens		2 pic
2	Nozzle		some
3	Welding Head Cable		1 set
4	Inner hexagon wrench		1 set
	Ruler		



5		30cm				1 piec	
6	User Manual & Laser Source Report	HOME	PRODUCTS ▾	ABOUT US ▾	NEWS	CONTACT US	1 piec
7	Laser Protective Goggles					1064nm	1 piec



Packing details:	One set in a wooden case
Single package size:	110x64x48cm
Single gross weight	264Kg
Delivery time :	Shipped in 2-5 days after receiving full payment

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 Next: [Portable Mini Fiber Laser Marking Machine Supply in China](#)

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