



English ▾

Air-Cooled Laser Welding Machine



Home (https://dwcncclaser.com) >>

Product (https://dwcncclaser.com/product/) >>

Air-cooled Laser Welding Machine

DOWELL 1500W portable air-cooled handheld laser welding machine. Based on independent property rights of air-cooled 976nm high-efficiency energy-saving technology, high-brightness single-module laser technology, and embedded laser welding process software, it is China's first kilowatt-class air-cooled intelligent laser welding machine, officially entering the 100 billion market new laser welding machine Race track.



ASK FOR QUOTE



Features of air-cooled laser welding machine:

- 1) The output power is 1KW, and the welding penetration reaches 3mm
- 2) Based on 976nm pump technology, high electro-optical conversion efficiency $\geq 42\%$
- 3) Single welding head, welding wide pendulum
- 4) The weight of the whole machine is less than 60kg, miniature design, small size
- 5) Unique air-cooled design, low power consumption, energy saving and environmental protection, power supply 220VAC-16A
- 6) Triple protection design, including air pressure detection device



Air-cooled handheld laser welding machine parameters:	
Output Power	1500W
Output light wavelength	1070±10nm
Output spot quality	M2 < 1.3, fiber core 20um
Power stability	< 2%
Indicating light wavelength	650nm
Output fiber interface type	QBH/QD
Supply voltage	220VAC/50Hz/60Hz
Digital signal voltage	24VDC
Control port	TTL/RS232/Ethernet/Databus
power consumption	≤2.5KW
Working environment temperature range	5-45°C
Working environment humidity range	≤95%
size	650x300x570 [mm] (L*W*H)
weight	70kg
The above parameters are for reference only, the actual product shall prevail	

Advantages of air-cooled laser welding machine:

1. Simple operation, no welder certificate required

Traditional welders need a lot of time for training and research. The air-cooled handheld laser welding machine control device is set up and concise. The machine also previews common welding parameters. Users can customize and save the required parameters.

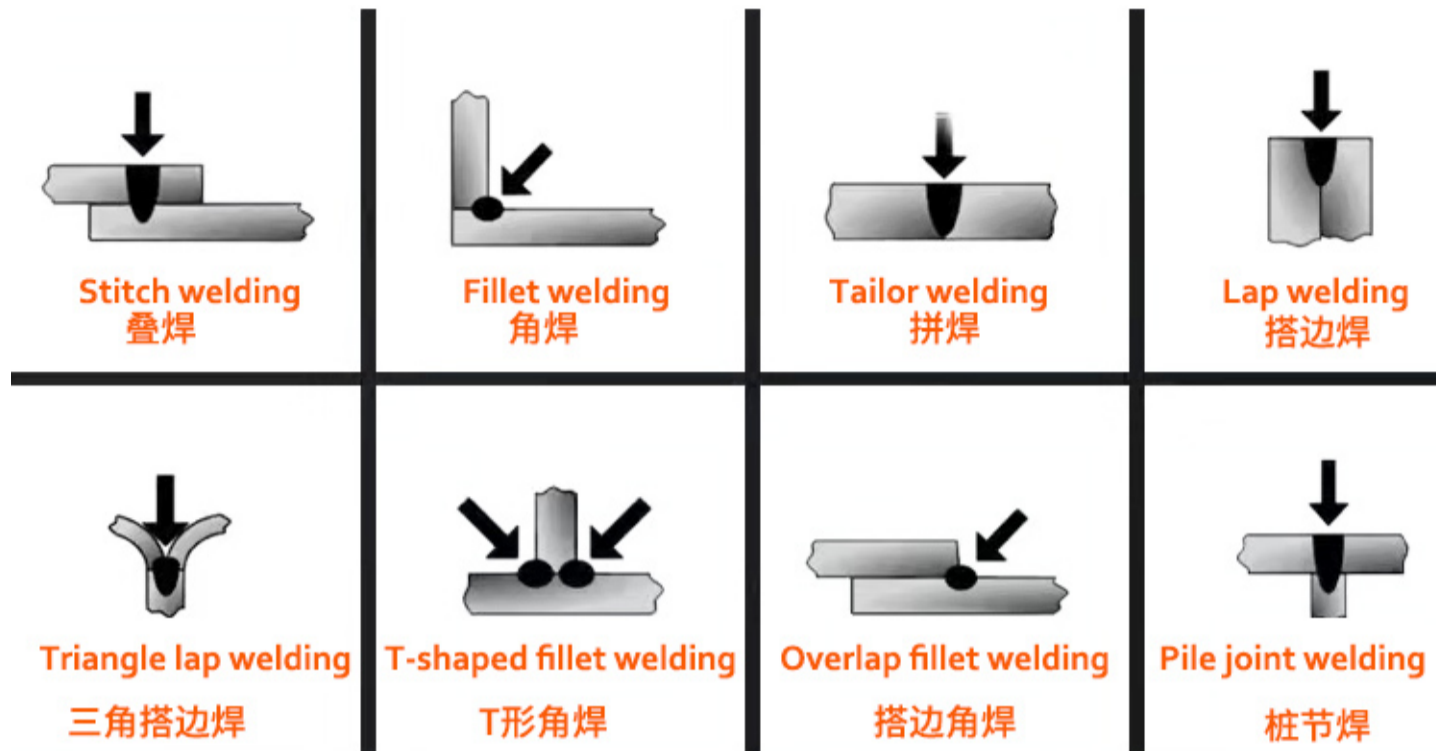
2. Efficient welding, saving labor costs

One year after laser welding cannot be recovered, the effect of air-cooled welding is 2-10 times that of traditional manual welding, and at least 22 labor costs. One year after laser welding, it cannot be restored and cleaned, which can save labor costs.

3. The welding seam is beautiful, no deformation, and no hot treatment

The air-cooled handheld welding machine can weld general steel (such as carbon steel, welding and welding steel, etc.), as well as recall and brass. Beautiful sewing, no deformation, no deformation of parts, no need for welding steel treatment, 4mm penetration alloy; welding alloy/brass, penetration 3mm.

Welding method of handheld laser welding machine:



Air-cooled laser welding machine details display:



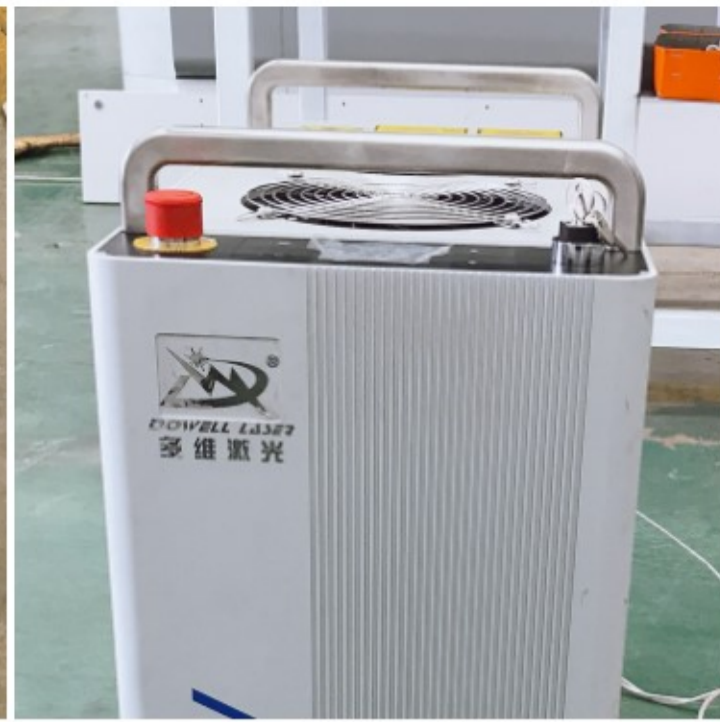
Single pendulum welding head with adjustable welding width



Water cooling design, energy saving and environmental protection, small appearance, high space utilization, stable performance, and reduced complexity



The data can be adjusted by itself, the spot and focal length can be adjusted, which is convenient and simple



Hand-held handle design, easy to lift, effortless



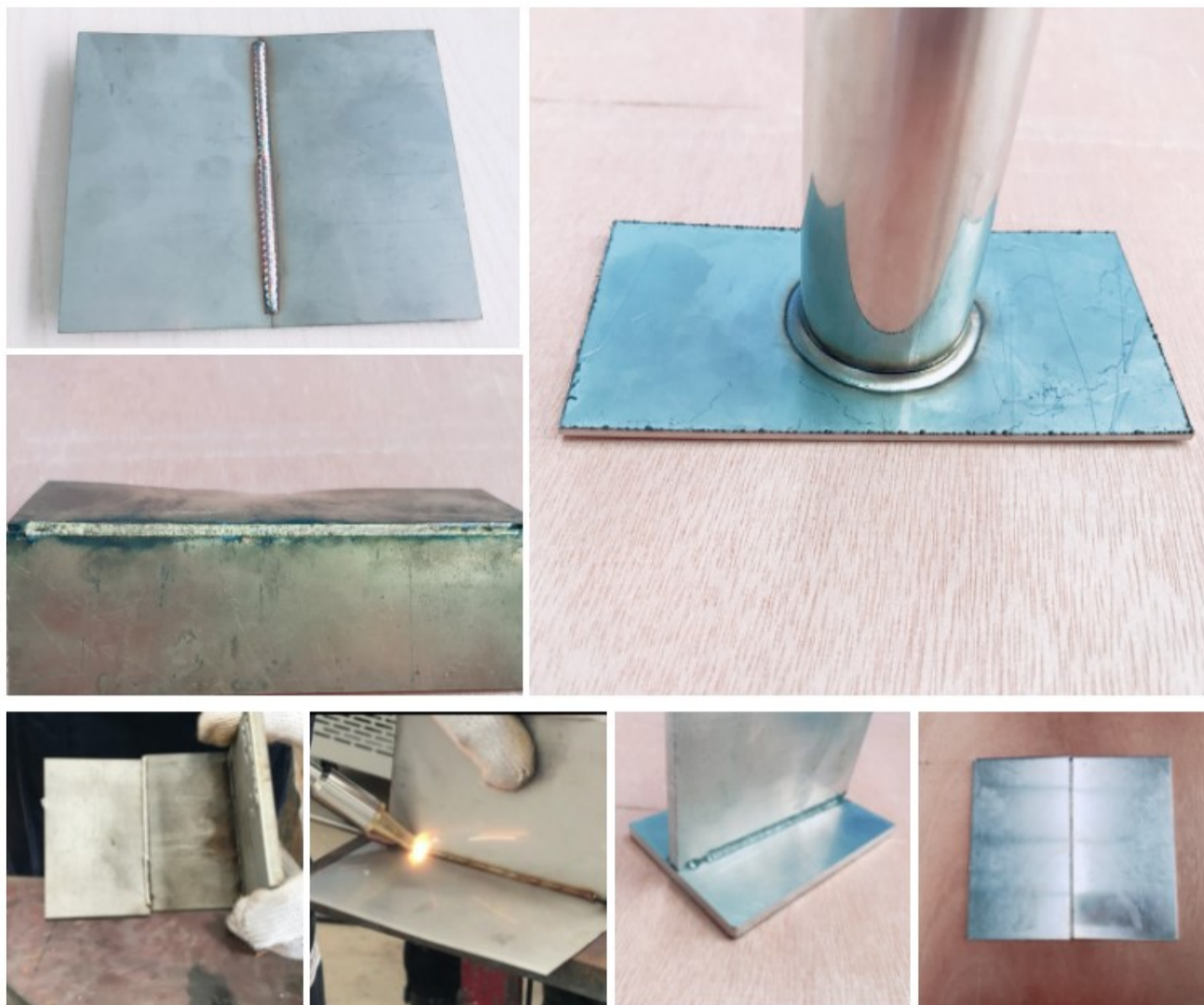
Ultra-long optical fiber cable, easy to operate, long service life, convenient for welding



Simple wiring on the back of the air-cooled welding machine, convenient for you to use

What materials can be welded by a handheld laser welding machine?

Plate welding, stainless steel, carbon steel, applicable products, various metal plates, molds, chassis, water tanks, kitchen and sanitary products, various hardware lighting, advertising billboards, laser welding of door and window frames. Hand-held laser welding machines are widely used in kitchens, household appliances, advertising, molds, stainless steel doors and windows, handicrafts, household goods, furniture, auto parts, and many other industries.



Safety guarantee for air-cooled laser welding machine:

Air-cooled handheld laser welding machine has multiple safety protection functions:

Equipped with key switch and emergency stop button to ensure the safety of operation;

Color LED light settings, different states can be transmitted through different colors;

Optical fiber interlocking device to ensure the integrity of laser transmission;

Workpiece and gun head interlocking device, when the welding torch leaves the work piece, the laser can be turned off immediately.

Air-cooled laser welding machine RFQ:

Q: What materials can your laser welding machine weld?

A: Please provide the material you want to weld

Welding thickness

Q: How to choose the most suitable laser welding machine?

A: In order to recommend the most suitable machine model to you, please tell us the following information.

1. What material is your welding plate made of

2. What is the thickness of the plate you want to weld?

Q: How can I quickly obtain information and quotations for this product?

A: Please leave your email, WhatsApp or WeChat, and we will arrange for the sales manager to contact you as soon as possible.

Q: What operations can the laser welding machine perform on the plate?

A: Welding, cutting, etc. on the plate, tailor welding, stitch welding, internal fillet welding, external fillet welding, etc. are all possible

Q: What materials can the fiber welding machine cut?

A: All kinds of metal plates, such as stainless steel, carbon steel, low carbon steel, chemical steel, aluminum, copper, etc.

Related products





Handheld Laser Welding Machine

(<https://dwcncclaser.com/product/laser-welding-machine/>)

Read more
(<https://dwcncclaser.com/product/laser-welding-machine/>)



Lightweight Portable 1500 Laser Welder

(<https://dwcncclaser.com/product/lightweight-1500-laser-welder/>)

Read more
(<https://dwcncclaser.com/product/lightweight-1500-laser-welder/>)

Follow Us on Social Media

(<https://www.facebook.com/dowelllaser/>)

(<https://www.youtube.com/channel/UCbE3ojkGFxbbtV9Qzn7qDIA>)

(<https://www.pinterest.com/dowelllaser/>)

(<https://www.linkedin.com/company/dowelllaser/>)



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

- Sitemap (<https://Dwcncclaser.Com/Sitemap/>)
- Product (<https://Dwcncclaser.Com/Product/>)
- Contact (<https://Dwcncclaser.Com/Contact/>)
- Home (<https://dwcncclaser.com/>)
- About (<https://dwcncclaser.com/about/>)
- Product (<https://dwcncclaser.com/product/>)
- Blog (<https://dwcncclaser.com/blog/>)
- Contact (<https://dwcncclaser.com/contact/>)
- Fiber Laser Cutting Machine (<https://dwcncclaser.com//fiber-laser-cutting-machine/>)
- Tube Laser Cutting Machine (<https://dwcncclaser.com//tube-laser-cutting-machine/>)
- Laser Welding Machine (<https://dwcncclaser.com//laser-welding-machine/>)
- Metal Laser (<https://dwcncclaser.com//metal-laser-welding-machine/>)

Cleaninglaser-cleaning-machine/
Machine



Jinan DOWELL Laser Equipment
(<http://www.dwlaser.net>)