

# Brief Instruction of HaiYi Laser



Our company was founded in 2003 and established the Haiyi laser brand in Shenzhen. It is dedicated to the research and development, production, sales and service of laser equipment. The company expanded its scale in 2009 and built a new production base in Suzhou. In 2010, it moved its headquarters to Suzhou, and owns the independent factory building now. Adhering to the business philosophy of "win-win with customers", the company leads the development of laser applications through continuous technological innovation and continues to provide customers with high-quality products and services.

With the experienced professional laser technology team and management team, the company has developed laser equipment with independent intellectual property rights: laser welding machine, laser marking machine, laser cutting machine, laser cleaning machine and other series of products and automatic supporting series, and is dedicated to providing comprehensive industrial laser solutions for global customers.

The company has passed ISO9001 quality management system, SGS audit, TUV audit and other certifications. Its main products have passed the CE certification of the European Union and the FDA certification of the United States, and are exported to more than 100 countries in Europe, Africa, America, Asia and Oceania.



**2003**

Found in Shenzhen



**2005**

Flying Laser Marking Machine



**2008**

YAG Mold Laser Welding Machine



**2009**

YAG handheld laser welding machine



**2010**

Move to Suzhou



**2011**

3D dynamic Laser Marking Machine



**2013**

CNC Fiber laser welding machine



**2014**

Nanosecond laser welding machine



**2015**

Laser cutting machine



**2016**

Handheld laser welding machine



**2017**

ISO9001 quality management system



**2018**

National high-tech enterprise



**2019**

Successful listing



CO2 laser cutting machine

Laser cleaning machine

PCB laser cutting machine



**2020**

Vision System Laser Marking Machine



**2021**

Mini 3 in 1 function Handheld Laser Welding machine



**2022**



Lithium battery welding machine



2003 - 2023

- Member of Jiangsu laser chamber of Commerce
- Member of Hubei laser chamber of Commerce
- Member of Guangdong laser chamber of Commerce
- Stock market list.
- ISO9001 quality management system certified.
- 40+ inventions and patents, 10+ software works, etc.
- National high-tech enterprise.
- Main products certified by EU CE and FDA, and exported to global markets.





**Laser processing principle:** the laser beam with high energy density is generated by the laser equipment and irradiated on the surface of the processed material. The material surface absorbs the laser energy and generates a thermal excitation process in the irradiation area, so as to increase the temperature of the material surface (or coating) and produce phenomena such as state change, melting and ablation, so as to form the effects of laser marking, welding and cutting.

Laser processing technology is a high-tech technology of energy saving and environmental protection. Compared with traditional printing, welding, cutting and cleaning processes, it's a green solution with less energy consumption, high efficiency, good stability, high safety.

## Customized



### Laser Marking Machine



### Laser Cutting Machine



### Laser Cleaning Machine



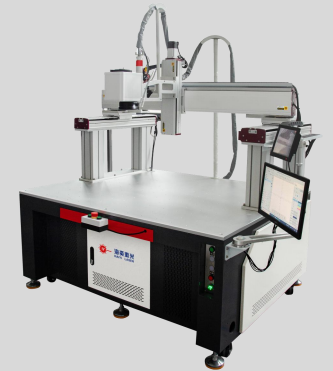
### Laser Welding Machine



### Laser Multi-function Machine



### Customized Solution





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HAYI LASER

# Our Products

## Laser Welding Machine

The fiber laser is used to melt the workpiece and form a specific molten pool by accurately control the laser pulse width, energy, repetition frequency and other parameters digitally. This welding process can make the tight welding which traditional welding can not make.

### Product Characters: :

1. Photoelectric conversion efficiency up to 25-30%, low total power consumption;
2. The laser lifetime is up to 100000 hours, free of maintain;
3. Excellent pulse power, stable energy.

### Application:

It is used to off-line or on-line welding of mass production of electronics, communication, hardware and other industries, includes mobile phone shield, metal mobile phone shell, metal capacitor shell, hard disk in computer, micromotor, sensor, medical appliance, kitchen and bathroom, doors and windows, advertising, etc.

### Product includes:

QCW series, MOPA series, WT series, SW series, WA series, WF, series CF series, WZ series, RF series, WM series.





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# Our Products

## Laser Cutting Machine:

Multifunctional continuous laser is often used for continuous cutting of metal plates and pipes. The large focal depth and small light spot make the cutting edge very smooth.

## Product Characters:

1. The cutting head has intelligent auto focusing function, fast and sensitive response;
2. Non contact cutting, less heat influence on the cutting edge, and good cutting quality.
3. Special cutting software is flexible for design of various graphics or characters, which is convenient and flexible;
4. Superior performance servo motor and screw drive guide, high-precision ball screw and bearing;
5. Fully enclosed guide rail can reduce dust pollution.

## Application:

It is widely used in aerospace, machinery manufacturing, elevator manufacturing, advertising, craft gifts, sheet metal processing, household appliances and other fields.

## Product includes:

CFA series, CFB series, FPC series.





## Laser Cleaning Machine:

Continuous laser and MOPA pulse fiber laser are used as cleaning light source, and the laser adopts main oscillator power amplification. Widely used for metal rust removal, paint removal, oil grease dirt removal, etc.

## Product Characters:

- Both hand-held and robot automatic cleaning are flexible and convenient. A variety of light output and clean at any angle;
- Small size and easy to move. Not only convenient for long-distance cleaning of large workpieces, but also outdoor cleaning;
- Easy start. Can work without professional training;
- Fast dry cleaning, environmental protection and no pollution;
- Tiny cracks can be cleaned to save cost.

## Application:

Widely used in hardware, mold cleaning, medical equipment, aerospace, rail transit, marine engineering and other industries. It can fit to various modeling workpieces with high-efficiency cleaning.

## Product includes:

CH series, CR series, CT series.



## Laser Marking Machine

Laser marking is processed with a non-mechanical "light knife", which can engraving on any regular or irregular surface. Laser marking can keep the original accuracy of the workpiece without internal stress. No corrosion, no "tool" wear, no poison and no pollution.

### Product Characters:

1. Excellent beam quality, smaller focusing spot and better processing quality.
2. Low cost, low energy consumption and no consumables.
3. High efficiency, high speed, high power density, and the working speed is 3-10 times of traditional lasers.

### Application:

It is widely applied to electronic communication, auto parts, precision hardware, gift accessories, glasses, clocks, instruments, sanitary ware, hardware tools, nameplates, food and drug packaging, tobacco marking, alcohol marking, medical devices, etc.

### Product includes:

FB series, SF series, VM series, UV series, CO2 series, PS series.



## Multi-function Laser Machine

It integrates the functions of laser welding, cutting and cleaning, and provides a more concise, flexible and cost-effective scheme for customers with multi-functional needs.

### Product Characters: :

1. High efficiency welding, cutting and cleaning. Low power consumption of the whole machine;
2. The service life of the laser is up to 100000 hours, and the laser does not need maintenance;
3. Excellent pulse power, stable energy.

### Application:

It is flexible used for welding, cutting and cleaning of metal Parts.

## Customized Laser solution:

Equipment customized service: provide high level laser comprehensive solutions with high efficiency, low cost, green environmental protection and energy saving, based on customer specific needs.



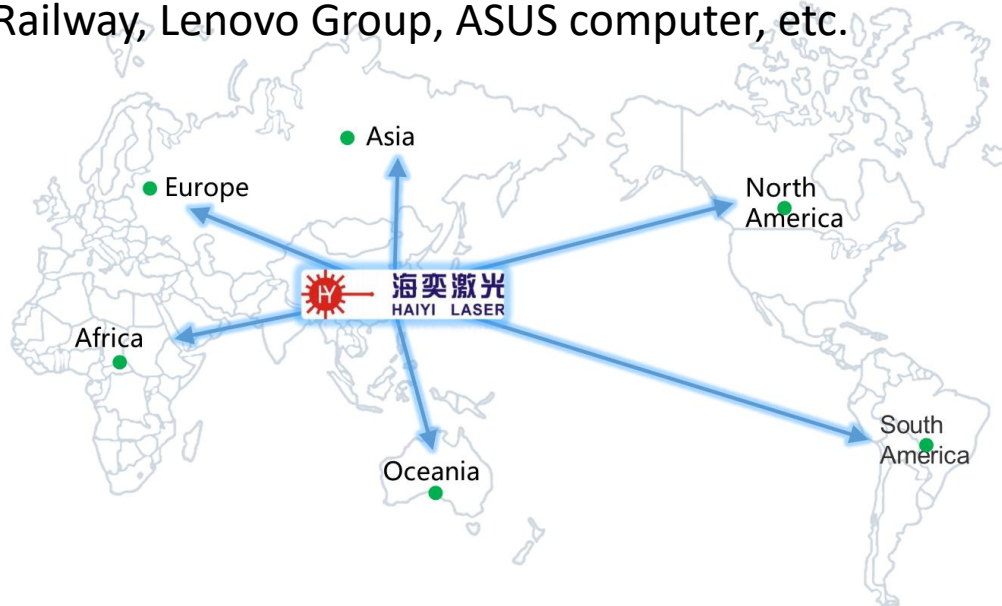


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# Our Customers

With a high quality level, robust performance, longer service life, high processing accuracy and high competitive price, makes more and more recognition, attention and trust on our equipment from our customers domestic and abroad. Over the years, we have continued to provide high-quality laser solutions and supporting services for many well-known brands, such as Huawei, Samsung, Bosch electronics, Thermos, Shanghai Volkswagen, BMW, CATL, Giant, Goodbaby, Foxconn, Daikin, Aux, Kaiquan Pump, Grundfos pump, Yuwell medical, Hafei group, China Railway, Lenovo Group, ASUS computer, etc.



SAMSUNG



Volkswagen



富士康®

FOXCONN®



### **Value:**

- Being honest and trustworthy.
- Quality makes power.
- Continuous innovation.

### **Vision:**

Being a leading company in laser application

### **Mission:**

- High quality level
- Competitive laser equipment
- Professional and quick service