



# About Us ▶▶

Shandong Oree Laser Technology Co., Ltd. is a high-tech enterprise integrating R&D, production and sales of laser application equipment.

## 66000m<sup>2</sup>

Manufactory

The company has a manufactory of 66000 square meters, including modern standard factory buildings of 4000 square meters and smart office building of 6000 square meters.

## 1,000

Over 1000 Employees

The company has more than 1,000 outstanding employees, including more than 120 professional core R&D team members, and some experts with more than 15 years experience of laser filed.

## 150+

Products are exported to 150+ countries and regions

The products are exported to more than 150 countries and regions including Russia, the United States, South Korea, India, Thailand, Poland, Vietnam, and Malaysia.

## 30

International certification, patent

It has obtained ISO9001, RoHS, CE and FDA international certifications, and has more than 30 utility model patents and appearance design patents.

## 6

Major product series

Products mainly include Flatbed fiber laser cutting machine, Tube fiber laser cutting machine, Sheet&Tube dual-use fiber laser cutting machine, 3D fiber laser cutting machine and Hand-held welding machine.

## INDUSTRIES

Wide application field

Products have been widely used in electronic appliances, precision machinery, integrated circuits, auto parts, kitchen and bathroom hardware, smart home, handicraft processing, fashion and lighting industries.



# SUPREME EFFICIENCY



**OREE 3 in 1 manual laser machine. Welding - Cleaning - Cutting**

Easy To Use • Supreme Efficiency • Efficient

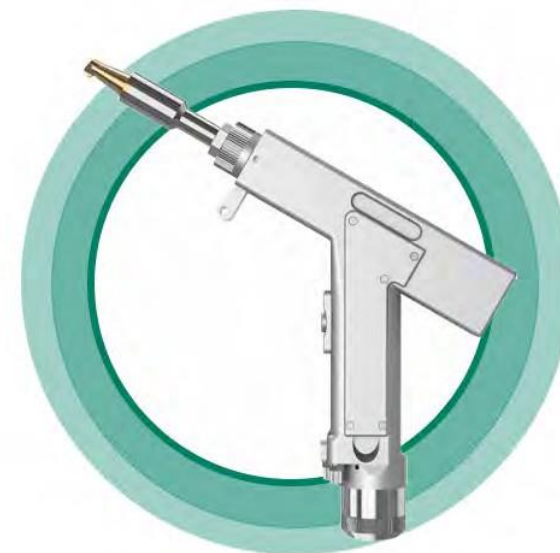




## Dual-drive Handheld Swing Laser Welding Head



- Electronic display design, real-time control of welding data



- All ports of the main board can resist 20W static electricity

### ● Dual-drive Handheld Swing Laser Welding Head

There are 6 welding modes and multiple welding nozzles to meet different welding needs; it has a safety sensor function, which emits a laser after touching the metal and automatically locks the light when it is removed; the spiral jitter function, the width of the weld can be adjusted, and the welding ability is significantly improved.



#### 6 Welding Modes >>>

Point shape, one shape, O shape, double O shape, triangle, figure eight welding, it can deal with various welding scenes.



#### A Variety Of Welding Nozzle >>>

Negative Angle welding copper nozzle, positive Angle welding copper nozzle, wire feeding copper nozzle, cutting copper nozzle, can deal with different forms of welding.



#### Pressure Alarm Function >>>

The handheld welding machine has a pressure alarm function. When the air pressure is low, it does not emit laser light, which can protect the lens from burnout to the greatest extent.



- 5 Languages



- The appearance is optimized, smaller body

### • Hand-held Laser Cutting Machine OR-HW

The hand-held laser welding machine changes the traditional welding method, using a high-intensity laser beam as the heat source for welding, and is equipped with a hand-held jitter welding gun to replace the previous fixed light path. It has the advantages of simple operation, beautiful welding seam, fast welding speed and no consumables.



#### Water Cooler >>>

Dual temperature and dual control, circulating water circuit, can quickly cool the internal pipeline cavity of the welding head, while cooling the laser.



#### Standard 10 Meters Optical Fiber >>>

It is conventionally equipped with 10-meter optical fiber, which can realize long-distance, flexible welding in large areas and reduce operating limitations.



#### Simple Operation Panel >>>

Display operation interface, simple and eye-catching button, no programming and teaching, simple operation



## Comfortable and intelligent laser cleaning head



● Simple operation panel



● Handheld cleaning head

### ● Laser Cleaning Head

The internal structure of the laser cleaning head is sealed to avoid the intrusion of dust pollution and prolong the service life;  
The hand-held cleaning head is ergonomically designed, with a comfortable grip and long-lasting operation without tiring hands.



#### 8 cleaning modes >>>

The process library can save 32 sets of process parameters, 0 ~ 31, each mode corresponds to different setting parameters, and can save the cleaning parameters of the corresponding material.



#### Lightweight >>>

The shape is light, the body engineering design method is adopted, and the grip is comfortable; it is easy to grasp with one hand, and the operation is simple and easy to use.

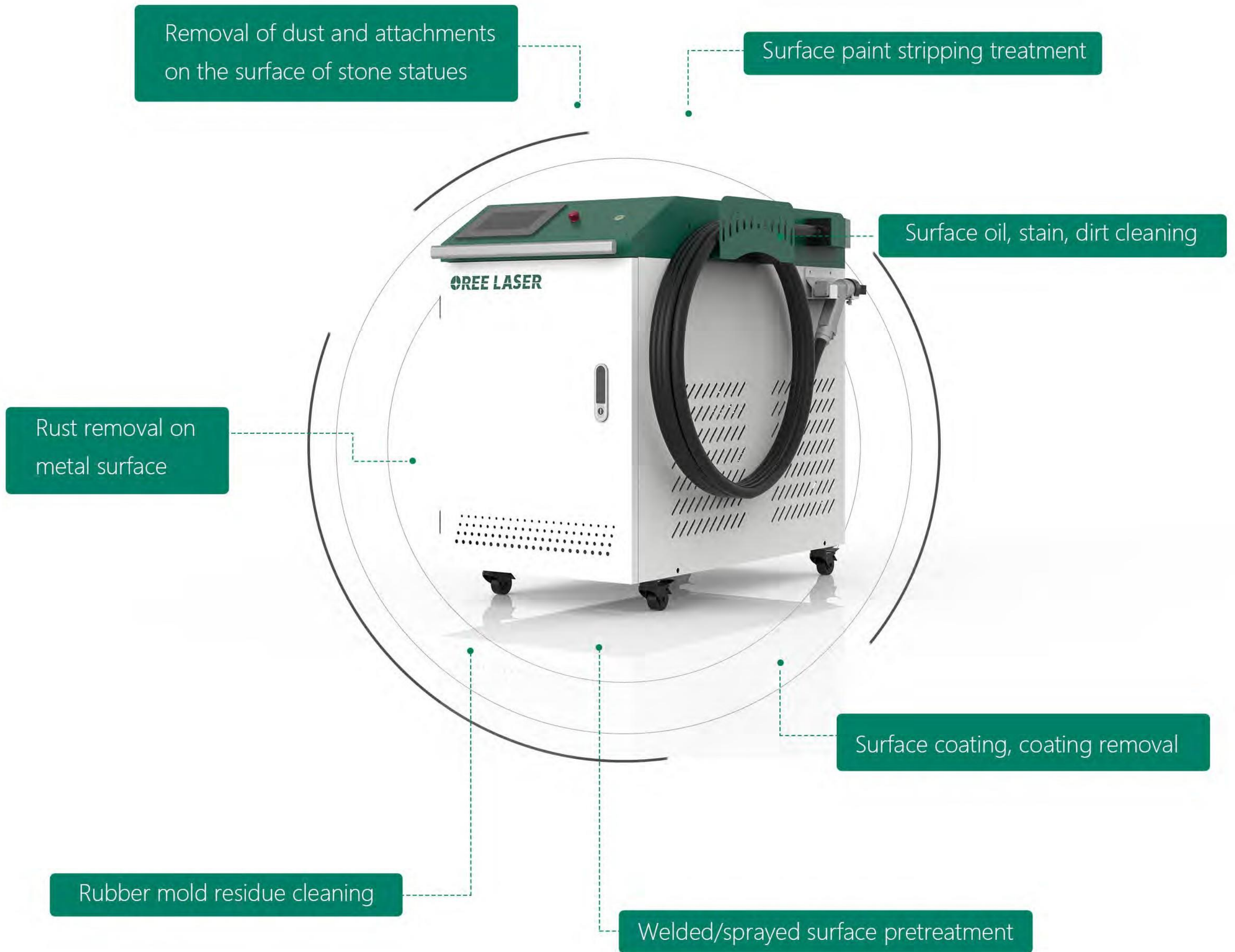


#### Precision Design >>>

The internal design is smart, and the internal structure is completely sealed, which can prevent the optical part from being polluted by dust.



## Scope of application



### Wide range of cleaning applications

Widely used in iron and steel metallurgy, non-ferrous metals, auto parts, aerospace, metal molds, shipbuilding industry, rail transit, mining machinery, cultural relics restoration and other industries.



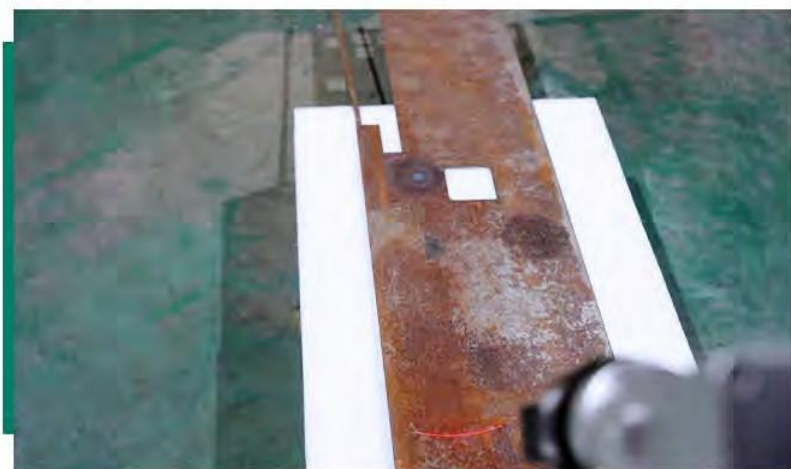
# Small Body, Efficient Cleaning

- 8 cleaning modes



## • Small Body, Efficient Cleaning

It has the advantages of easy control, easy automation integration, no chemical reagents, surface cleaning, high cleaning cleanliness, high precision, high efficiency and environmental protection, safety and reliability, almost no damage to the surface of the substrate, and can solve many problems that cannot be solved by traditional cleaning.



### Non-contact cleaning >>>

Non-contact cleaning, the maximum cleaning width can reach 150mm, without damaging the parts matrix.



### Safety and environmental protection >>>

No chemical cleaning solution, no consumables, safe and environmentally friendly

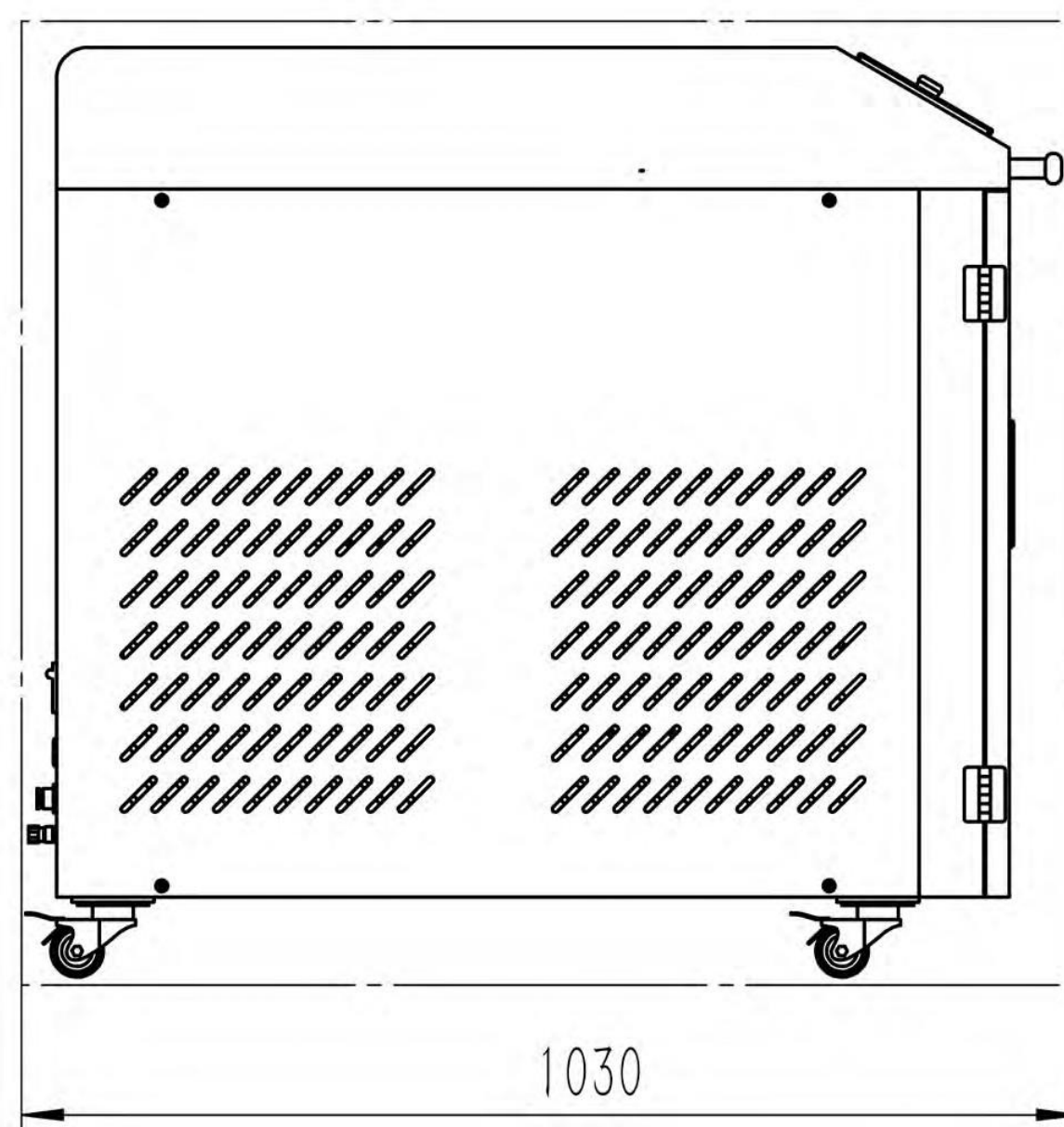
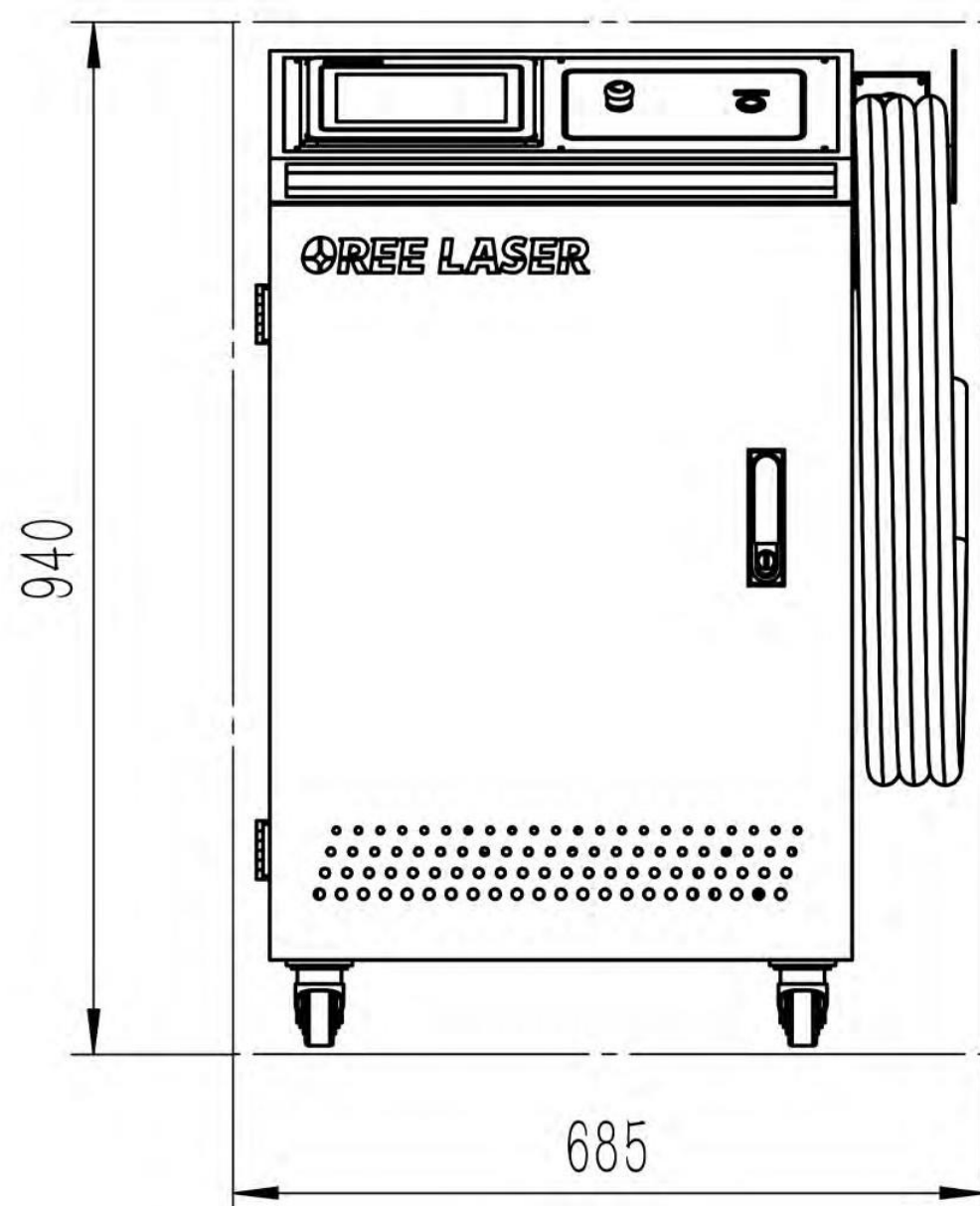


### Efficient >>>

Fast cleaning, high efficiency and time saving



## Small Body, Efficient Welding



### • Small Body, Efficient Welding

The welding speed of OR-HW laser welding machine is 3-10 times that of traditional argon arc welding and plasma welding. The welding heat affected area is small, and it will not cause problems such as deformation, blackening, traces on the back of the joint construction, and the welding depth is large, the melting is sufficient, and the welding is firm.



#### High Speed And Accuracy >>>

Oree laser welding machine can save 2-3 manpower, and the power consumption is about 10-20% of ordinary welding process;



#### High Productivity >>>

The welding seam is exquisite, firm, and fast. The welding speed is 3-10 times that of traditional argon arc welding and plasma welding;



#### The Slim Arm >>>

The welding heat affected area is small, and it will not cause problems such as deformation, blackening, and traces on the back of the workpiece, and the welding depth is large, the melting is sufficient, and the welding is firm.



## Production lines



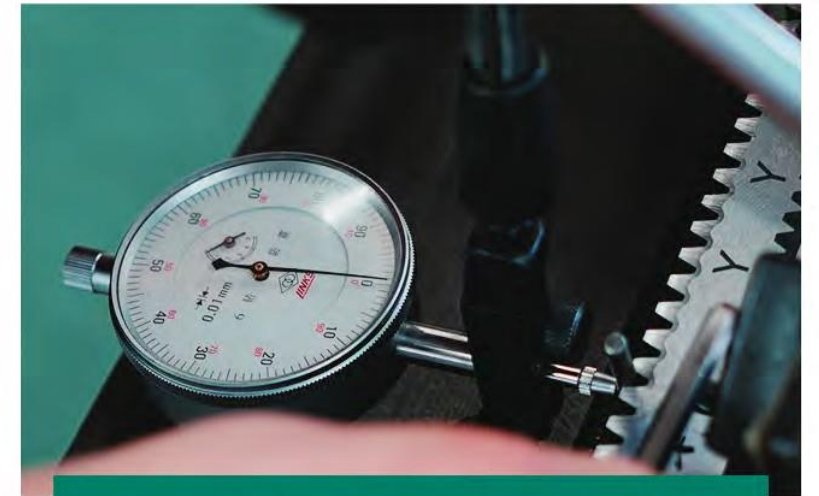
Bed Foot Installation

Adjust the height of the feet according to the test results of the strip level to ensure the accuracy of subsequent installation.



Rail Installation

Use photoelectric autocollimator to detect the straightness and flatness of the guide rail to ensure that the detection value is within the standard range.



Rack Installation

The relative position of the guide rail and the rack is locked by the measuring rod and the multi-point position is clamped. After the distance is detected by the dial indicator, data statistics and analysis are performed to ensure that the two are parallel.



Beam Installation

After the beam is installed, use a three-coordinate measuring instrument to check the coaxiality to ensure the relative perpendicularity of the X/Y/Z three-axis



Positioning Accuracy Inspection

The laser interferometer tests the X-axis positioning accuracy to ensure the accuracy of the whole machine.



Positioning Accuracy Inspection

The laser interferometer tests the Y-axis positioning accuracy to ensure the accuracy of the whole machine.



Laser Power Meter Test

Ensure that the laser output power of the laser is within the specified range



72h Machine Aging Test

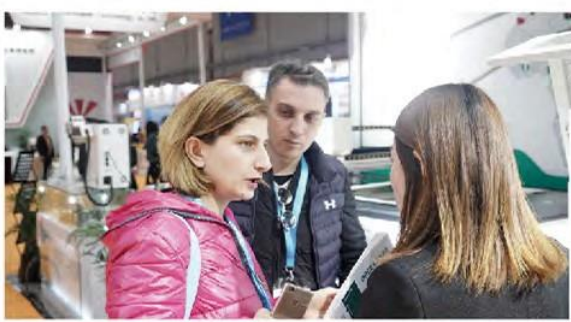
Simulate the high-intensity test of various harsh conditions in the actual use of the equipment, and at the same time, according to the requirements of use, rationalize the improvement to ensure the factory pass rate and improve the reliability of the equipment



Pack And Ship

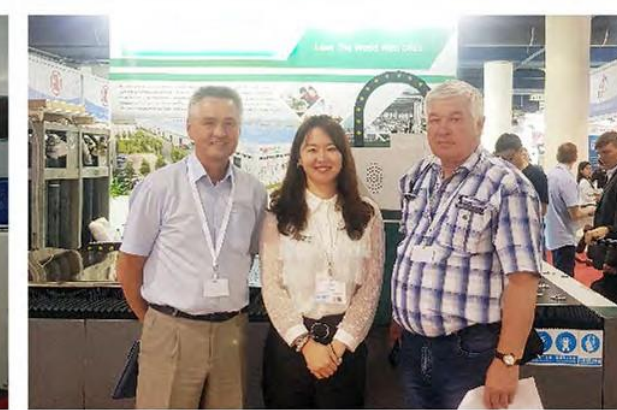
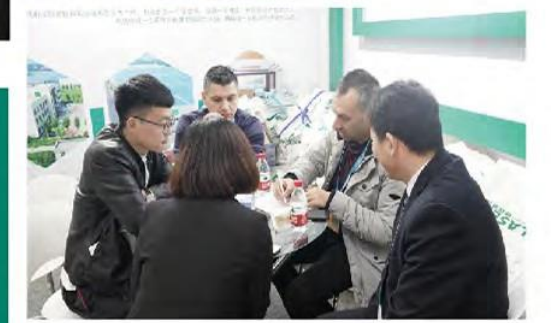
Adopt sealed composite aluminum foil moisture-proof low-pressure packaging and thick wooden boards to protect the fuselage to prevent bumps and collisions during shipping, and minimize unnecessary mechanical losses that may occur during transportation.





# EXHIBITION SILHOUETTE

**OREE LASER**







# AFTER-SALES SERVICE

**OREE LASER**

