

# 6015 LARGE FORMAT FIBER LASER CUTTING MACHINE

3000W/6000W/12000/20000W



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**HIGH POWER**



**LARGE  
WORKING AREA**



**OUTSTANDING  
STABILITY**



**MULTI-MATERIAL  
CUTTING**

The 6015 large-area fiber laser cutting machine has a customizable bed size and processing length according to customer requirements. It can process a wide range of materials. The large cross-section rectangular tubes have undergone annealing, welding and precision processing to ensure stability and reliability. It is particularly suitable for high-precision and high-efficiency cutting and processing of large-area metal plates.



# SELLING POINT

## 01.Oversized processing format

The maximum processing size is 6000mm \* 1500mm, with almost no excess material and no additional cutting paths or micro connections, saving materials and improving production efficiency.

## 02.Subdivided Fluid Domain Dusting

The smoke exhaust device automatically senses the laser cutting position to open precise smoke exhaust, closes the non-cutting area for smoke exhaust, fully enclosed smoke control, increases suction, and removes smoke to the greatest extent.

## 03.Higher material utilization rate

More flexible layout, software has more space for optimal layout, and can easily handle parts with long or irregular combinations.

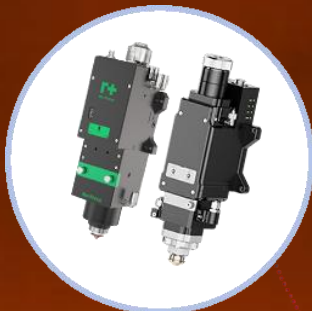
## 04.Replaceable Independent burn-proof sheet metal

Reduce the erosion of slag injection on the bed and improve the life of the bed.

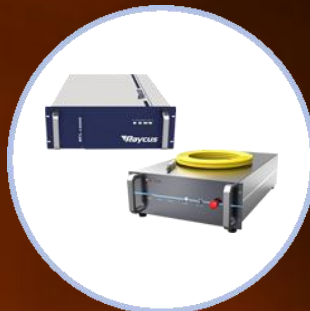
## 05.Energy conservation and environmental protection

Because of the high energy conversion efficiency and low energy consumption, it can not only reduce processing costs, but also achieve environmental protection and energy saving.

# CONFIGURATION



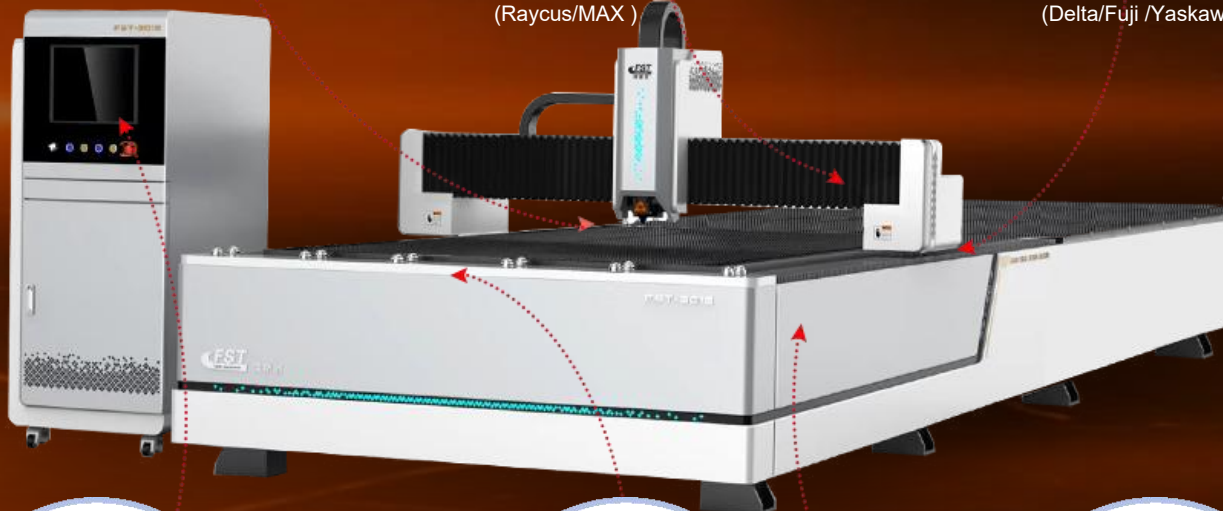
Raytools/BOCI Laser Head



Fiber Laser Generator  
(Raycus/MAX )



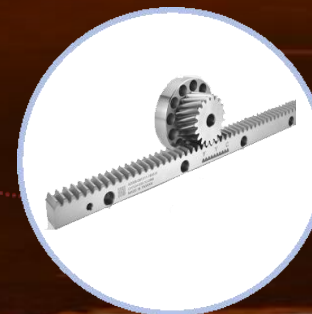
Servo Motor Driver  
(Delta/Fuji /Yaskawa)



Control System  
(Raytools/BOCHU)



Japan Shimpo reducer

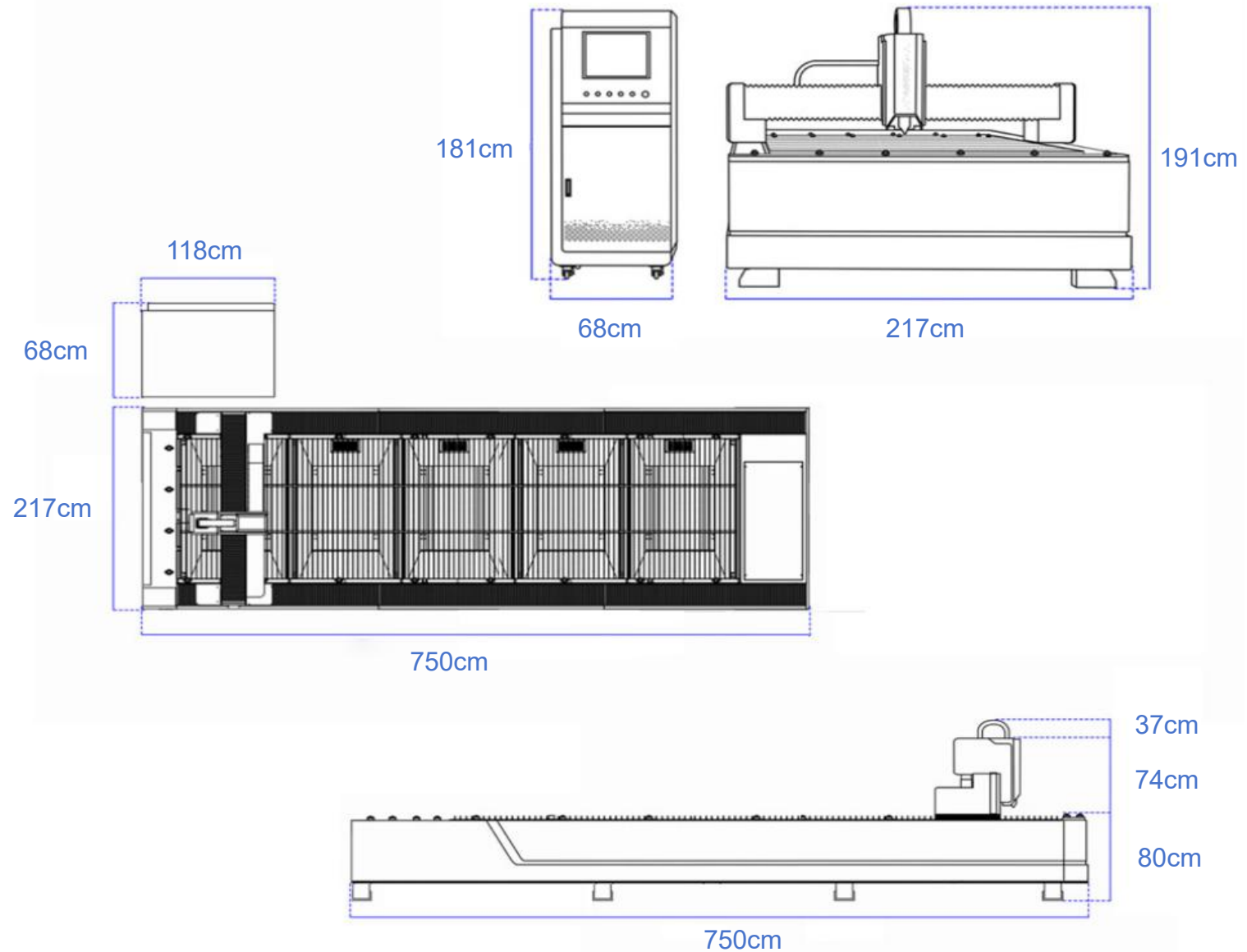


TAIWAN YYC Rack

# PARAMETERS

|                              |                                      |
|------------------------------|--------------------------------------|
| Model                        | 6015/6020/8020/12020                 |
| Working Area                 | 1500*6000mm/2000*6000mm/2000*12000mm |
| Fiber Source                 | Raycus/Max/Reci/BWT                  |
| Control system               | BOCHU/Raytool                        |
| Laser Wavelength             | 1080nm                               |
| Maximum acceleration         | 1G                                   |
| Laser power                  | 3000W/6000W/12000W/20000W            |
| Compatible software          | AutoCAD,CorelDraw, etc.              |
| Graphic Format               | DXF/PLT/AI/LXD/GBX/GBX/NC code       |
| Power supply Voltage         | 380V 3Ph, 50/60Hz                    |
| Cooling Mode                 | Water Cooling                        |
| Working Life of Fiber source | More than 10,0000 hours              |
| Weight                       | 3T                                   |
| Size                         | 7500*2170*1910mm                     |

# PARAMETERS



## When should I choose 6015?

**\*Mainly processing 6-meter boards:** If your business uses a large amount of 1500x6000mm boards, choosing 6015 is undoubtedly beneficial as it can directly bring dual benefits of materials and efficiency.

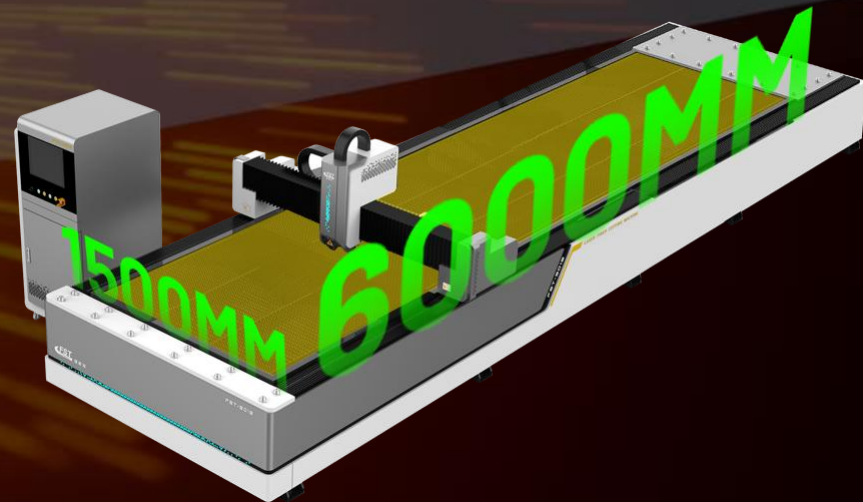
**\*There is a demand for large-sized finished products:** Your product itself is in the form of a long strip, such as elevator car wall panels, production line frames, and long ventilation ducts. 6015 can eliminate the welding and splicing process, ensuring overall quality and aesthetics.

**\*Pursuing scale production:** Your order volume is large and stable, and you need to maximize the production capacity of a single equipment. The high efficiency of 6015 can significantly shorten the delivery cycle

**\*Diverse material types:** You often need to handle boards of different sizes, and the large format of 6015 provides unparalleled layout flexibility, making it easy to handle scattered orders of various sizes.

### Working area can be customized to any size

Multiple formats and sizes are available for your choice. Find the perfect product that suits you best!



# Laser Cutting Head

## Multiple Protection

3 protective lenses , highly effective collimating focus lens protection.2-way optical water cooling extends the continuous working time effectively.

## High-precision

To successfully avoid step loss,a closed-loop stepping motor is used.The repetition accuracy is 1M and the focusing speed is 100mm/s. Dust-proof to IP65,with a patent-protected mirror cover plate and no dead angle.

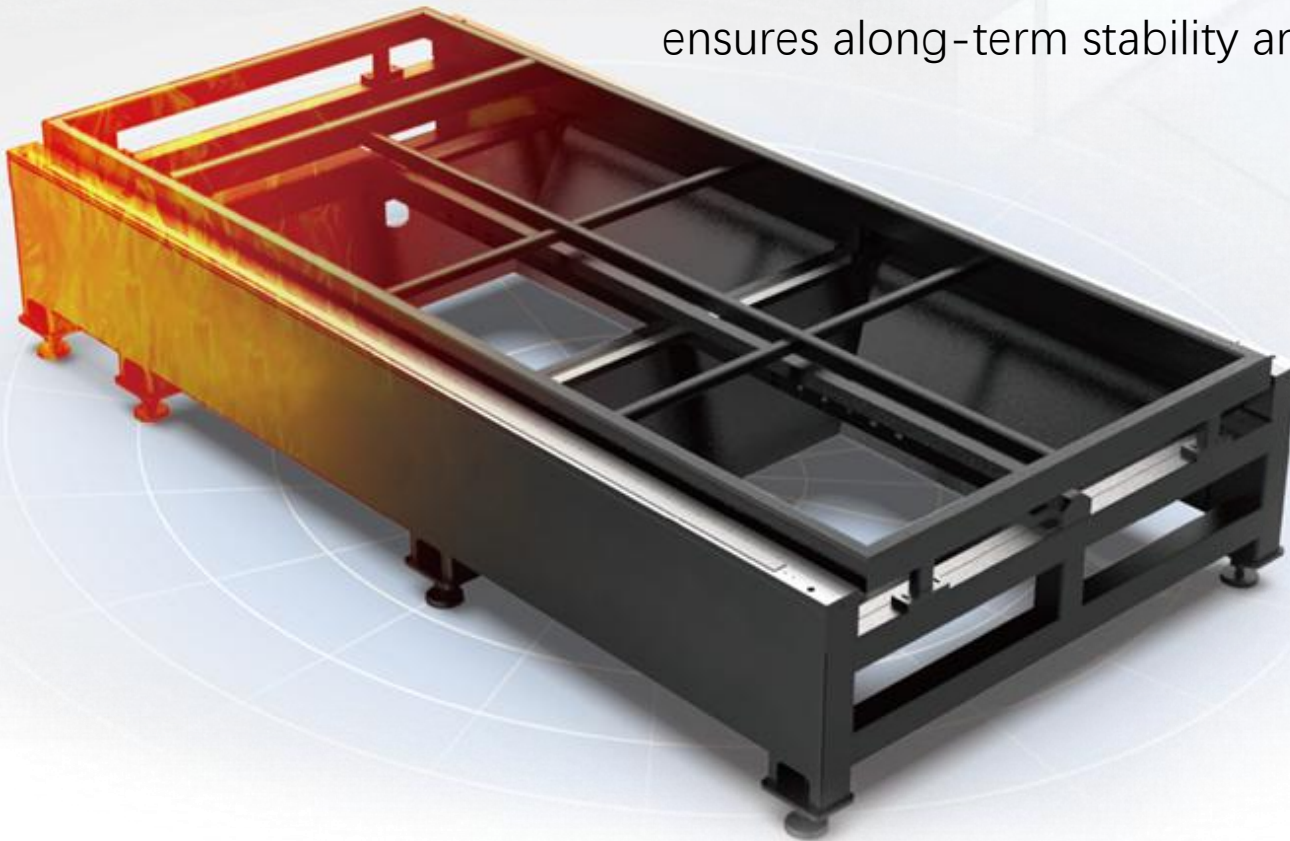
## Various Brands Of Laser Head Are Available

We can provide all high quality laser heads . It has been tested by us for a long time.



## STRONG MACHINE LATHED BED

The lathed bed is after aging treatment: 1600°C high temperature heat treatment, 24 hours with furnace cooling and precise co2 protection welding, which ensures along-term stability and no deformation.



# CAST ALUMINUM BEAM

## Monolithic cast aluminum beam

No deformation, light weight, high strength Light cross beams allow equipment to operate at a faster rate boosting processing efficiency and quality.

## High Speed

The light crossbeam allows the machine to move at a faster rate and enhance cutting efficiency.

## More Efficient

The aerospace industry's aluminum profile beam ensures that the equipment has efficient dynamic performance , considerably increasing processing efficiency while maintaining processing quality.





# CYPCUT

## Sheet Cutting Software

CypCut sheet cutting software is an in-depth design for fiber laser cutting industry. It simplifies complex CNC machine operation and integrates CAD, Nest and CAM modules in one. From drawing, nesting to workpiece cutting all can be finished by a few clicks.

- 1.Auto Optimize Imported Drawing
- 2.Graphical Cutting Technique Setting
- 3.Flexible Production Mode
- 4.Statistic of Production
- 5.Precise Edge Finding
- 6.Dual-Drive Error Offset



## LASER SOURCE

Professional cutting laser source. With high-quality beam quality, high light conversion efficiency, the light emitting mode is more conducive to achieving a good and stable cutting effect with high quality.



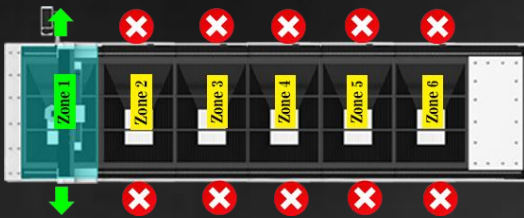
## SERVO DRIVER AND SERVO MOTOR

Professional cutting laser source. With high-quality beam quality, high light conversion efficiency, the light emitting mode is more conducive to achieving a good and stable cutting effect with high quality.

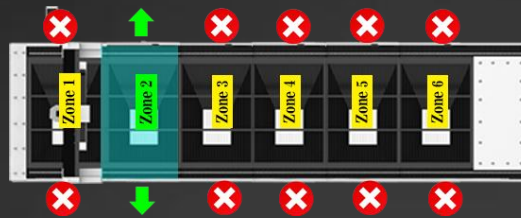


## INTELLIGENT REGIONAL SMOKE EXHAUST

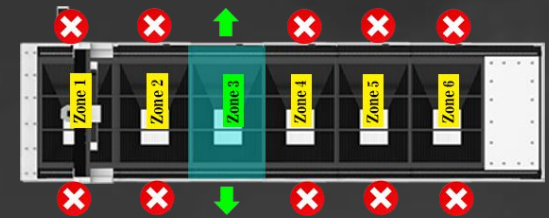
The laser machine working area is divided into three exhaust zones. This system is designed to automatically open and close the exhaust ports in different zones according to the position of the laser head.



- When the laser head is working in Zone 1, only the exhaust port of Zone 1 is open, while the ports in Zone 2-6 remain closed.



- When the laser head is working in Zone 2, only the exhaust port of Zone 2 is open, while the ports in Zone 1,3-6 remain closed.



- When the laser head is working in Zone 3, only the exhaust port of Zone 3 is open, while the ports in Zone 1-2,4-6 remain closed.

- Similarly, when the laser head is operating in a certain area, the exhaust port in that area is open, while the exhaust ports in other areas remain closed.

This means the fan's suction is concentrated only in the area where the laser head is currently working, which greatly improves the extraction efficiency. Because the area is smaller, the suction power is stronger, which leads to better smoke removal and cleaner working conditions.

Compared to a regular system where the fan and tube try to exhaust the entire working table at once, the zone system is more energy-efficient and effective, especially for high-precision or long-time engraving and cutting work.



## VOLTAGE STABILIZE

Stable voltage to ensure smooth operation of equipment. (Optional)



## AIR COMPRESSOR

It is a essential tool for cutting stainless steel and thin carbon steel materials. More cost saving. (Optional)



## Applicable material:

The Fiber laser cutting machine are good at processing common metal items in daily life such as advertising metal characters, kitchen utensils, sheet metal decoration, metal plates, etc., The Fiber laser cutting machine are widely used in electronics, electrical, mechanical hardware, new energy, packaging, solar energy, LED, automobile and other industries and also Widely used in cutting stainless steel, carbon steel, alloy steel, copper, brass, silicon steel, galvanized steel, nickel titanium alloy, Inconel, titanium alloy and other metal materials.

# 10 YEARS PROFESSIONAL ODM/OEM MANUFACTURER OF LASER EQUIPMENT

**30,000m<sup>2</sup>+**

30,000-square-meter  
standardized workshop.

**27+**

We currently hold 27  
technical patents.

**300+**

We produce more than  
300 laser equipment  
every month.

**4+**

We own four separate  
trademarks.



天人合一  
以信为本

用仁义道德头现企业可持续发展  
用我们的产品为顾客创造幸福

福斯特激光

以厚德 润天下

# Liaocheng Foster Laser Science & Technology Co., Ltd.

Liaocheng Foster Laser Science & Technology Co., Ltd. A professional manufacturer dedicated to the research and production of laser equipment, covers an area of over 10000 square meters. We mainly produce laser engraving machines, laser marking machines, laser cutting machines, laser welding machines, laser cleaning machines.

Since its establishment in 2004, Foster Laser has always adhered to the Customer centric . By 2023, Foster laser equipment has been exported to more than 100 countries and regions, including the United States, Brazil, Mexico, Australia, Turkey, and South Korea, winning the trust and support of customers. The company's products have CE, ROHS and other test certificates, a number of application technology patents, and provides OEM services for many manufacturers.

Foster Laser is equipped with a professional R&D team, sales team, and after-sales team, which can provide you with a perfect purchasing and usage experience. The company can customize products, logos, exterior colors, etc. according to demand. Meet your customization needs.

Foster Laser, looking forward to your visit.





TRADEMARK

10+

United States

Mexico

Britain

Brazil

Italy

Germany

Foster Laser has successfully registered trademarks in 10+ countries, which means the company has obtained legal protection for trademarks in these countries. These registrations not only ensure exclusive use of the company's brand and prevent others from infringing or imitating it, but also provide strong support for the company's expansion in the international market.

## International Certification Shows Brand Strength

1.Strict Quality Control Standards

2.Authoritative Certification

3.Brand Guarantee



# PACKAGING

1



Machine cleaning and  
Protective oil processing

2



Wrapping with  
protective film

3



Forklift moving goods

6



Transportation

5



Container Sealing

4



Container loading

# EXHIBITION

Partners come from all over the world  
With 10 years of export experience





### **Q: How can I choose the most suitable machine?**

A: In order to recommend you the most suitable machine model, please let us know the following details:

1.What is your material? 2.The size of material? 3.The thickness of material?

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### **Q:When I got this machine,but I don't know how to use it. What should I do?**

A:We will send operation video and manual for the machine. Our engineer will do training online. If needed, we can send our engineer to your site for training or you can send the operator to our factory for training.

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### **Q:If some problems happen to this machine, what should I do?**

A:We provide two years machine warranty. During the two-year warranty, in case any problem for the machine, we will provide the parts free of charge (except for artificial damage). After the warranty, we still provide whole lifetime service. So any doubts, just let us know, we will give you solutions.

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### **Q:What is the payment terms?**

A:The payment terms we accept include:Western Union,T/T,VISA,Online Bank Payment.

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### **Q:How about the shipping ways?**

A:Transport by sea is the normal way;If special requirement,need to be final confirmed on both sides.