

4020 INTEGRATED FIBER LASER CUTTING MACHINE

AGENT/ DISTRIBUTOR/ OEM/ODM SERVICES



4020 FIBER LASER CUTTING MACHINE

The 4020 fiber laser cutting machine adopts an optimized structural design, which reduces transportation costs. It features a single-platform open structure, allowing for multi-directional loading, high stability, fast cutting speed, and no deformation during long-term cutting, ensuring stable equipment operation. The laser diameter can be adjusted independently, with segmented dust removal, improving the efficiency of smoke and heat discharge, and achieving energy conservation and environmental protection.



FAST CUTTING SPEED



HIGH EFFICIENCY



LOW MAINTENANCE



COST SAVINGS

SELLING POINT

01. HIGH EFFICIENCY PRODUCTION

Utilizes advanced fiber laser technology for rapid cutting speeds and efficient production capabilities.

02. FLEXIBLE PROCESSING

Equipped with an automatic exchange table system for continuous processing, enhancing productivity and supporting rapid cutting of multiple materials.

03. ASSEMBLED DELIVERY

Without disassembly, it can be directly loaded into the container. It greatly shortens the installation and debugging time of customers, and facilitates the use experience of customers.

04. INTELLIGENT OPERATION

User-friendly interface and intelligent control system make operation simple and easy to master.

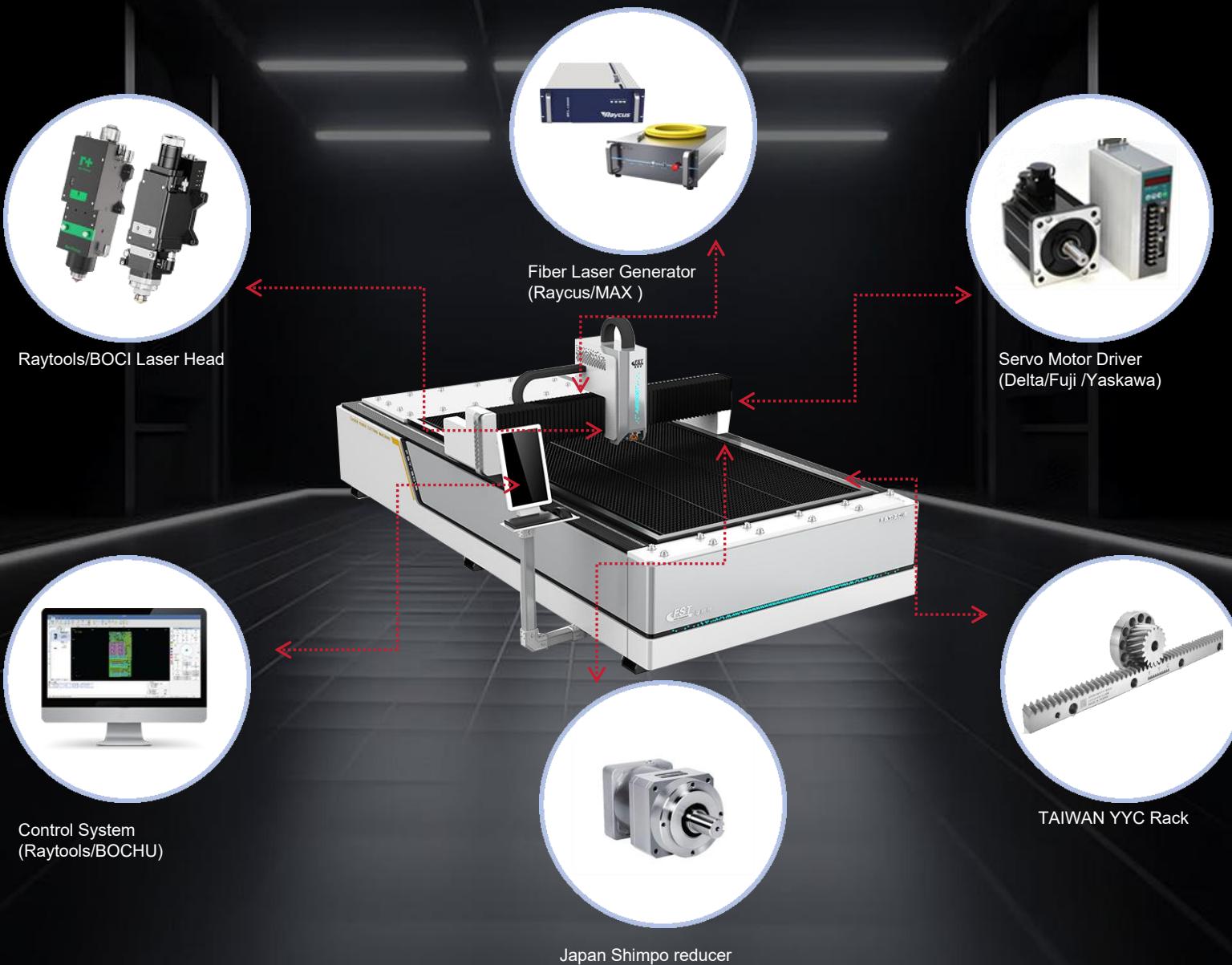
05. ENERGY-SAVING AND ENVIRONMENTALLY FRIENDLY

Fiber laser technology eliminates the need for chemical agents, resulting in no emissions of exhaust gases or wastewater, meeting environmental requirements.

06. DURABLE AND STABLE

Robust structure and high stability ensure long-term continuous operation with minimal risk of failure, extending the equipment's lifespan and reliability.

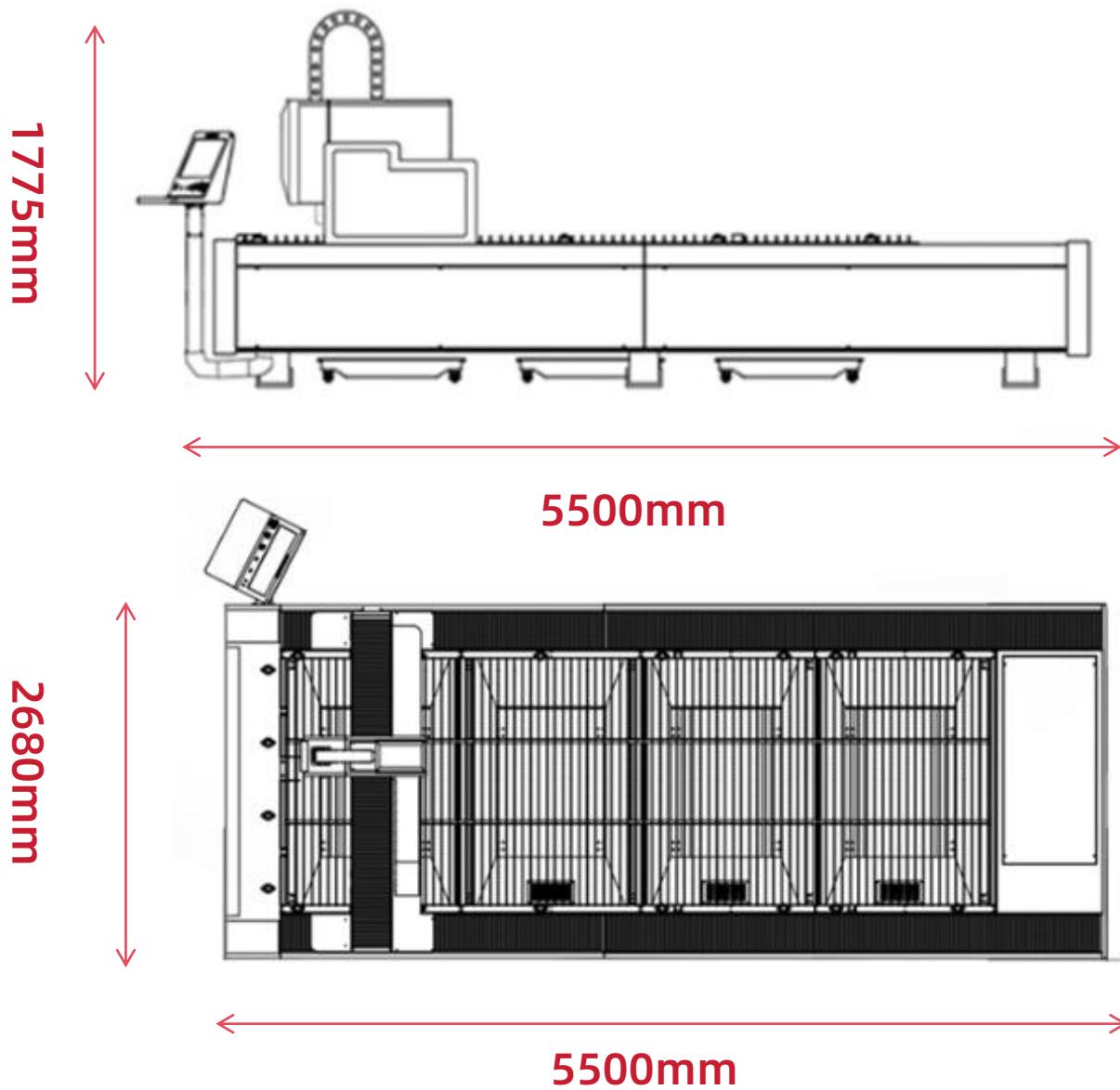
CONFIGURATION



PARAMETERS

| | |
|---------------------|----------------------------------|
| Model | 4020 fiber laser cutting machine |
| Control System | CypOne/CypCut-Friendess |
| Drives and Motors | Japan Fuji Servo Motor System |
| Fiber Laser Head | Raytools Laser Head |
| Fiber Source | Raycus or Max or IPG |
| Lubrication System | Electrical Motored |
| Guide Rails | Taiwan HIWIN Rails |
| Rack and Gear | Taiwan YYC Rack |
| Driver system power | X=0.75/1.3KW,Y=0.75/1.3KW,Z=400W |
| Reducer | Japan SHIMPO |
| Electron Component | DELIXI ELECTRIC |
| Chiller | HanLi /S&A |
| Machine Size | 5500*2680*1775mm |
| Voltage | 220V 1Ph or 380V 3Ph,50/60Hz |

PARAMETERS



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.

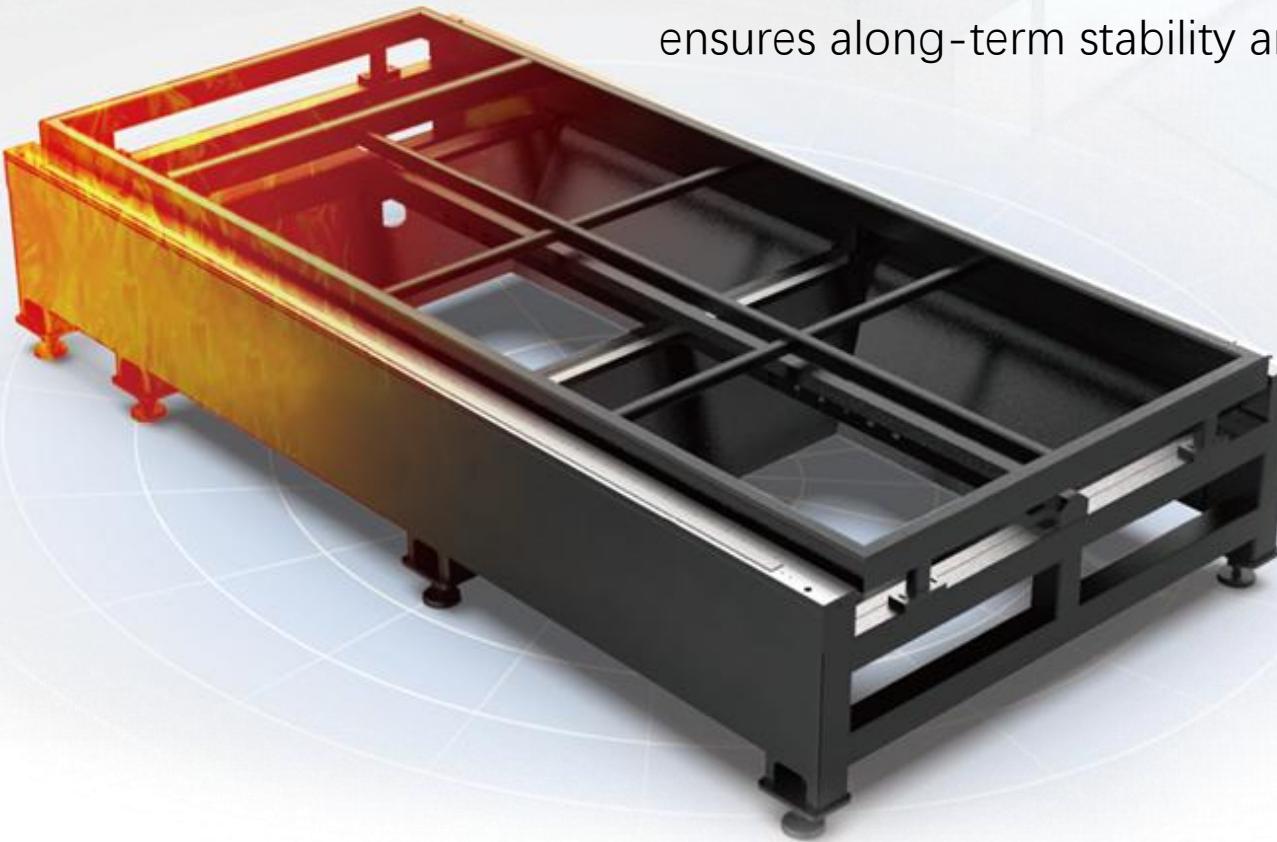
Various Brands Of Laser Head Are Available

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 long-term stability and no deformation.



CAST ALUMINUM BEAM

Monolithic cast aluminum beam

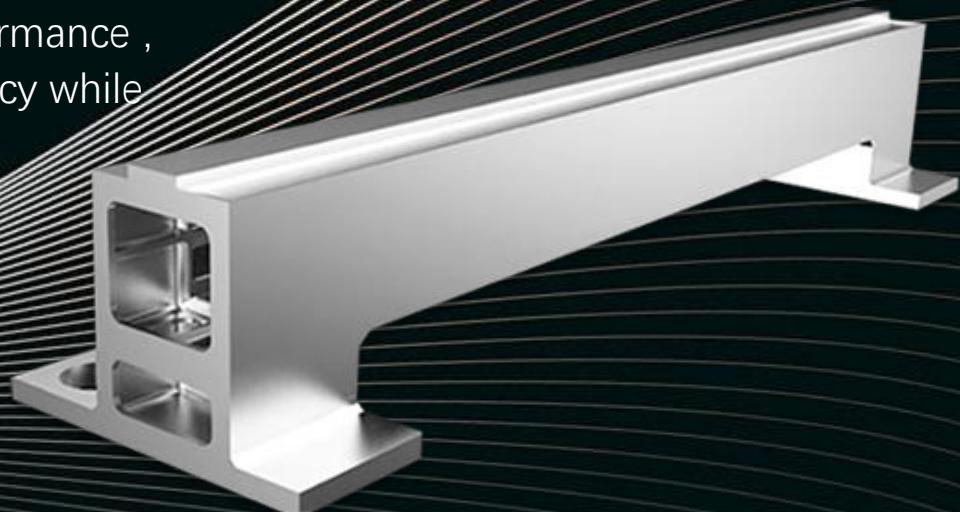
No deformation, light weight, high strength Light cross beams allow equipment to operate at a faster rate boosting processing efficiency and quality.

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.



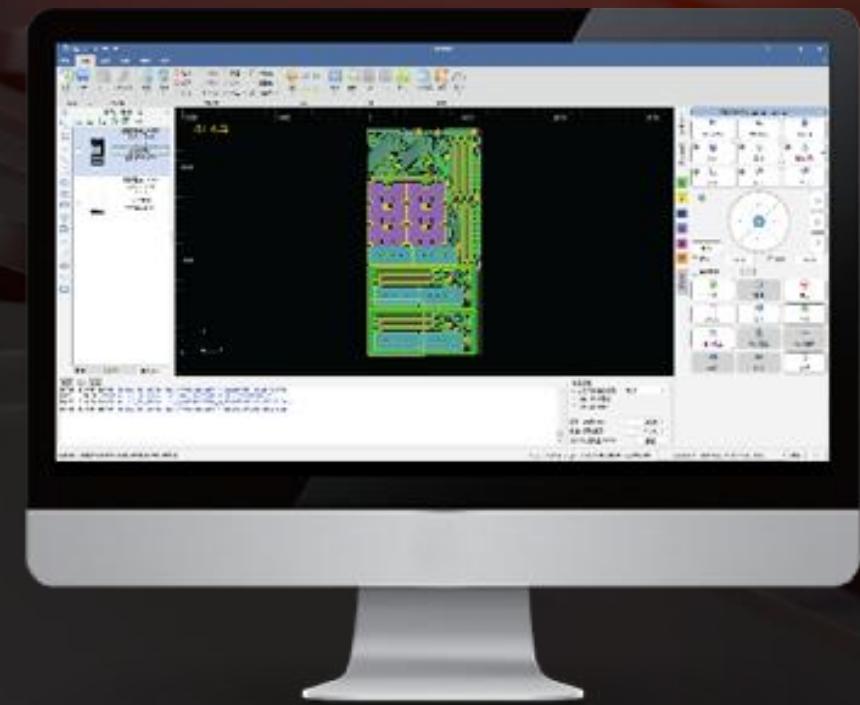


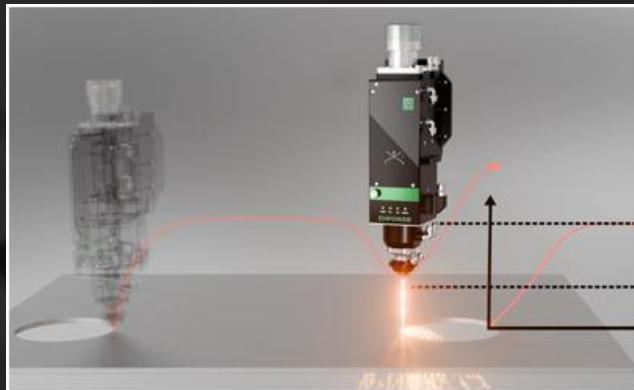
Raytools

Sheet Cutting Software

The XC3000S system is a CNC software for planar laser cutting suitable for power ranges of 30kW and below, and it also supports EtherCAT bus servo and pulse servo.

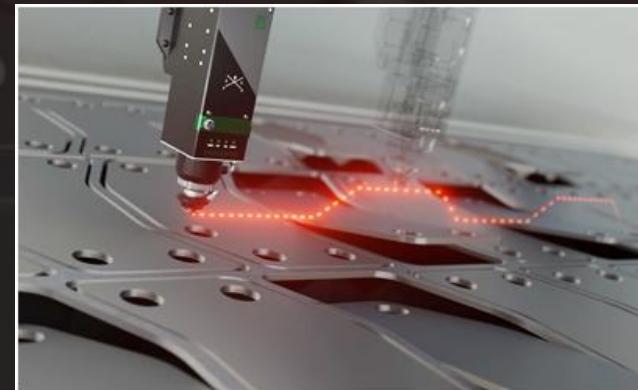
Easy to install, simple to debug, and fully functional, it is suitable for industries such as advertising machines and sheet metal processing.





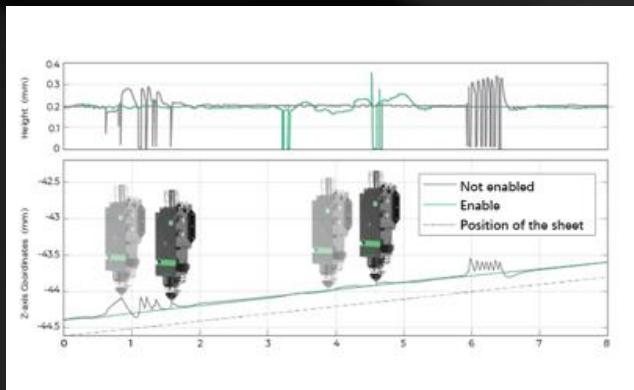
1. Non-perceptible perforation

High perforation efficiency and fast processing efficiency.



2. Intelligent obstacle avoidance

Effectively prevent the laser head from colliding



3. Vibration suppression

Vibration suppression for thin and thick plates ensures more stable processing



4. Support batch import

Support batch import of files and task processing.

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



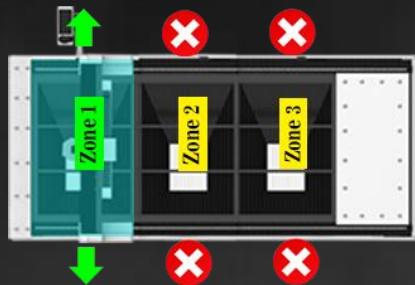
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HCFA

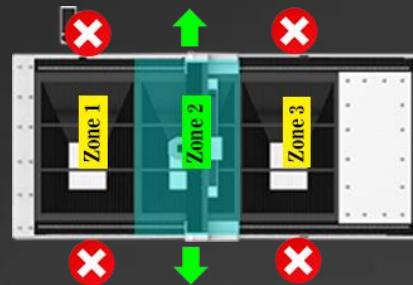
DELTA 台达

INTELLIGENT REGIONAL SMOKE EXHAUST

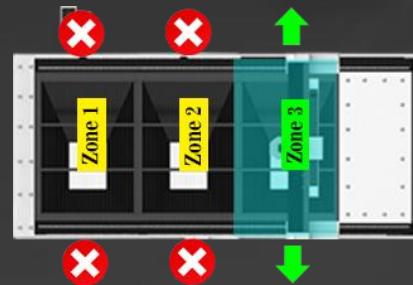
The laser machine working area is divided into three exhaust zones. This system is designed to automatically open and close the exhaust ports in different zones according to the position of the laser head.



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



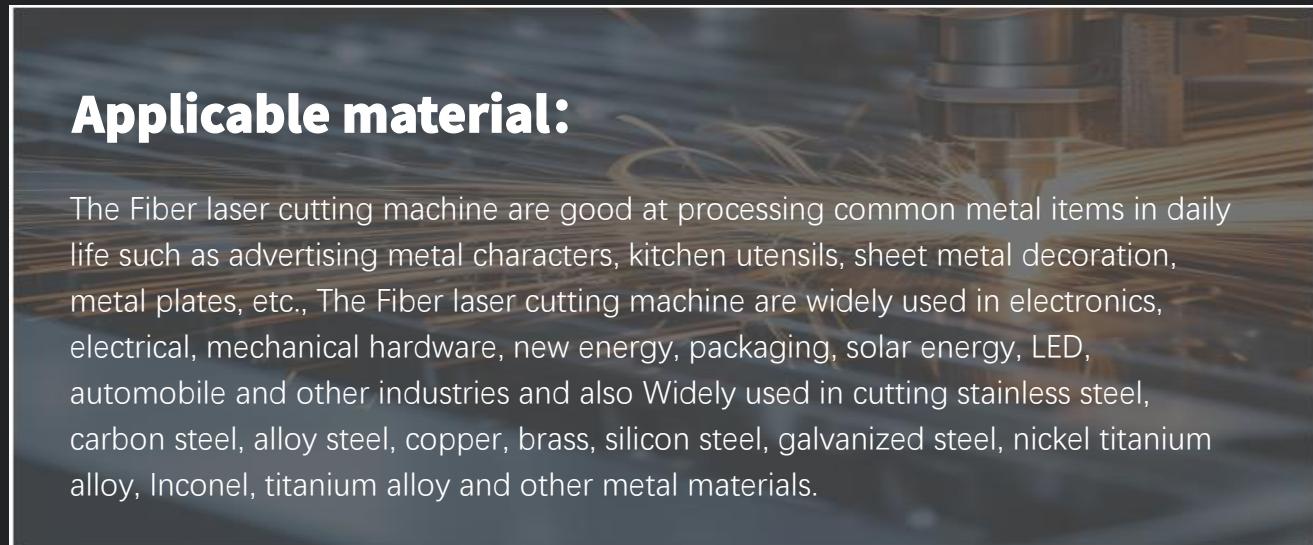
VOLTAGE STABILIZE

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)



10 YEARS PROFESSIONAL ODM/OEM MANUFACTURER OF LASER EQUIPMENT

30,000m²+

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.



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



Machine cleaning and
Protective oil processing



Wrapping with
protective film



Forklift moving goods



Transportation



Container Sealing



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?

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.

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.

Q:What is the payment terms?

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

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.