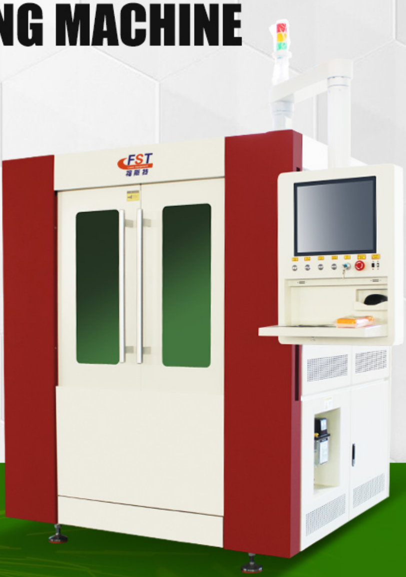
FST-6060

HIGH PRECISION
FIBER LASER CUTTING MACHINE

ODM/OEM



- Metal plate cutting 0.5-16mm
- Closed structure
- Marble Platform
- Jewelllery Manufacturing process
- Dual Rail and Driver Design

PRODUCT INTRODUCTION

The Precision Fiber Laser Cutting Machine is a compact, fully enclosed fiber laser cutter designed for high-precision cutting of small and intricate parts. Equipped with a three-dimensional protective cover, this machine ensures user safety while delivering reliable and efficient cutting performance. Its space-efficient design makes it an excellent choice for home workshops, small businesses, and industries requiring fine detail, such as jewelry, eyewear, and precision instruments. For those in search of a safe, compact, and professional-grade cutting solution, this machine stands out as the ideal option.

PRODUCT SELLING POINT

Liaocheng Foster Laser Science & Technology Co., Ltd.

01 HIGH CUTTING ACCURACY

Laser beam precision reaches up to 0.01mm, ideal for fine cuts on small parts with excellent quality.

02 ANTI-DEFORMATION MARBLE BASE

Built on a sturdy marble base, this machine resists deformation, vibration, and wear, ensuring stable, accurate performance over time.

03 FULLY ENCLOSED SAFETY DESIGN

Equipped with laser-protective glass and a fully enclosed cutting area, this machine ensures safe operation with minimal laser exposure.

04 PRECISION TRANSMISSION SYSTEM

The ball screw drive provides smooth and precise cutting, minimizing gaps for greater accuracy and reliability.

05 COMPACT DESIGN

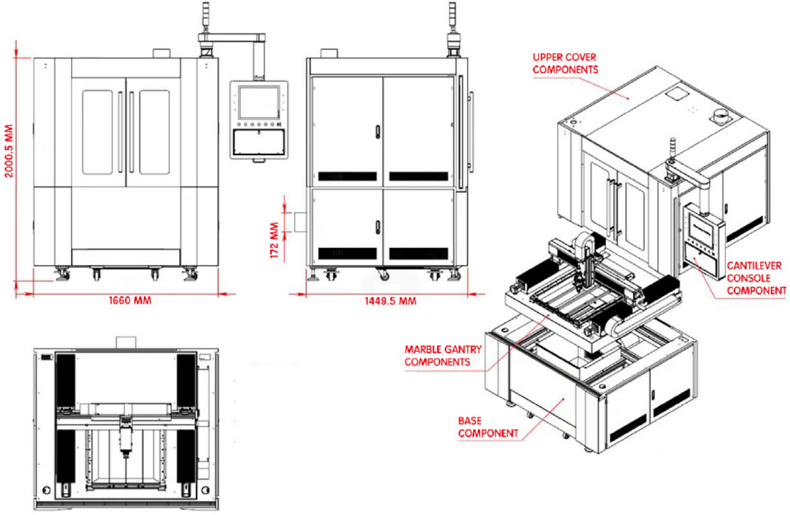
Small and space-efficient, this machine fits in tight spaces, making it ideal for small parts and fine details.

PRODUCT PARAMETERS

Liaocheng Foster Laser Science & Technology Co., Ltd.

Model	FST-6060 Precision Fiber Laser Cutting Machine
Working Area	600mm*600mm
Laser Power	1000W/1500W/2000W/3000W (Optional)
Laser Wavelength	1080nm
Cooling Method	Water cooling protection
Positioning Accuracy	±0.01mm
Maximum Acceleration	1G
Cutting head	Raytools / Au3tech / Ospri / Precitec
Water chiller	S&A / Hanli brand

Machine Size	1660*1449*2000(mm)
Laser Source	Raycus/MAX/IPG/RECI (optional)
Transmission	Ball screw transmission
Working Voltage	220V/380V



PRODUCT CONFIGURATION

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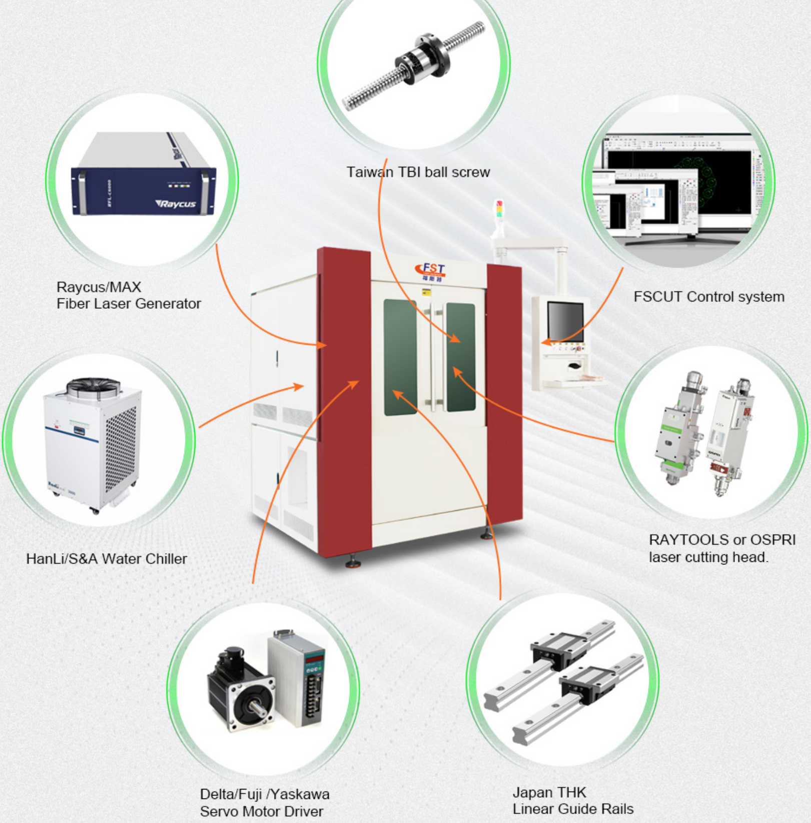


Taiwan TBI ball screw

Raycus/MAX
Fiber Laser Generator

FSCUT Control system

HanLi/S&A Water Chiller

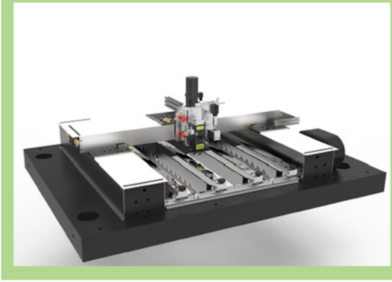
RAYTOOLS or OSPRI
laser cutting head.

Delta/Fuji /Yaskawa
Servo Motor Driver

Japan THK
Linear Guide Rails

PRODUCT DETAILS

Liaocheng Foster Laser Science & Technology Co., Ltd.



01 MARBLE COUNTERTOP

>>The main body of the equipment has good overall rigidity and high strength.

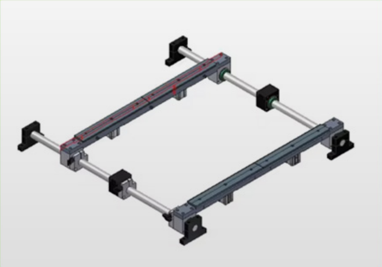
>>The base is made of marble, and the beam is made of extruded aluminum profiles, which have good acceleration performance and effectively prevent structural deformation.

02 FULLY ENCLOSED STRUCTURE

>>With a fully enclosed design. dust-proof and moisture-proof, small footprint.

>>The observation window adopts an European CE Standard laser protective glass.

>>The smoke produced by cutting can be filtrated inside, it's non-polluting and environmentally friendly.



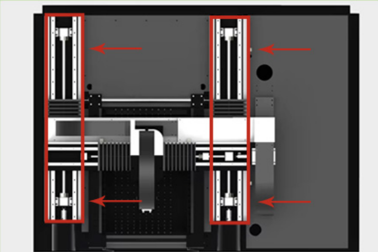
03 SPECIAL FIXTURE (OPTIONAL)

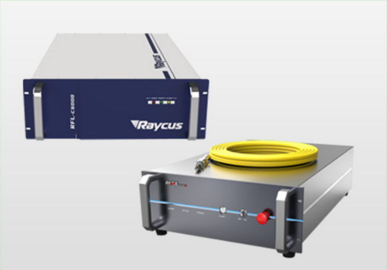
>>Customized fixtures, suitable for various industries.

>>The clamp has a strong clamping force and the metal plate is not easy to loosen, High precision cutting of thin plates.

04 DUAL RAIL AND DRIVER DESIGN

>>To prevent the cutting line deformation caused by the Y-axis screw bending, the Y-axis on both sides have been equipped two rails guide and double ball drive screw design to ensure the straightness and arc degree when with high-speed cutting is in operation.





05 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.

06 SERVO MOTOR

>>Servo motors stabilise and drive the beam to control the movement of the XYZ axis according to the programmed instructions to complete the cutting operations with complex precision, and the user can adjust the parameters according to their needs.

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 CUTTING HEAD

- **Versatile Cutting:** The laser head enables high-precision cutting of both plates and tubes, ensuring smooth, burr-free edges.

- **Auto-Focusing:** Equipped with automatic focusing capabilities, the laser head adjusts the focus based on different materials and thicknesses, enhancing cutting efficiency and quality.

- **High Power Output:** Provides stable high-power output suitable for cutting metals of various thicknesses.

- **Superior Cooling:** Advanced cooling system ensures the laser head maintains a stable temperature during prolonged operation, extending its lifespan.

- **Durability:** Constructed with high-quality materials and craftsmanship, the laser head boasts long-lasting durability and high reliability.

- **Multi-Material Compatibility:** Capable of cutting a wide range of metal materials, including carbon steel, stainless steel, aluminum, and copper, meeting diverse processing needs.

- **Modular Design:** Simple, modular design makes the laser head easy to maintain and replace, enhancing equipment maintenance convenience.

- **Protective Lens:** Equipped with high-quality protective lenses to effectively prevent damage from smoke and splatter during the cutting process.

PRODUCT APPLICATION

Liaocheng Foster Laser Science & Technology Co., Ltd.

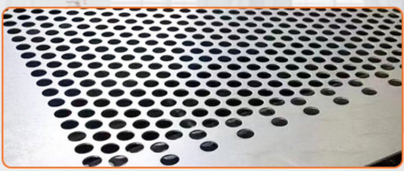
Application Materials:

This machine is optimized for high-precision cutting on all types of metals, including: Gold, Sliver, Stainless Steel & Carbon Steel, Aluminum and Aluminum Alloys, Titanium & Titanium Alloys, Galvanized & Zinc-coated Steel, Copper and Brass

Application Industries:

This precision laser metal cutting machine is specially designed for industries that demand fine detail and high accuracy. It's ideal for:

Optics & Eyewear: Accurate cutting of delicate metal components used in eyewear frames.
Electronics & Microelectronics: Suitable for small, intricate parts required in microelectronics and semiconductor production.
Appliances & Hardware: Ideal for decorative and functional small metal components.
Jewelry & Accessories: Perfect for creating detailed jewelry designs, logos, metal letters, and other small personalized items.
Precision Machinery: Ideal for intricate, small parts needed in fine mechanical and industrial applications.
DIY & Small Workshops: Compact size makes it a top choice for small factories, workshops, and home-based businesses.



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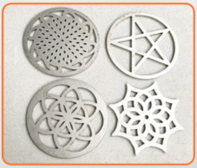

10 YEARS PROFESSIONAL ODM/OEM
MANUFACTURER OF LASER EQUIPMENT

天人合一
以信为本
用仁义道德实现企业可持续发展
用我们的产品为顾客创造幸福
福斯特激光

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.

世界爱上中国智造
rldwide love for Chinese creation
18号
FST
福斯特
聊城福斯特激光科技有限公司
LIAOCHENG FOSTER LASER SCIENCE&TECHNOLOGY CO., LTD

SER MACHINE
FST

WIPO
WORLD
INTELLECTUAL
ORGANIZATION

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

☑ Strict Quality Control Standards
☑ Authoritative Certification
☑ Brand Guarantee

CERTIFICATE OF CONFORMITY
CERTIFICATE

PACKAGING DELIVERY

Liaocheng Foster Laser Science & Technology Co., Ltd.

1

Machine cleaning and Protective oil processing

2

Wrapping with protective film

3

Forklift moving goods

Transportation

Container Sealing

Container loading

EMS FedEx Express

TNT ups

DHL EXPRESS

CONTAINER SHIP

FST
福斯特

EXHIBITION

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

VIEW MORE >>

FOSTER LASER
FST 福斯特

FAQ

Welcome to contact us

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 get this machine, how do I use it?

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.