FST
Laser equipment
福斯特

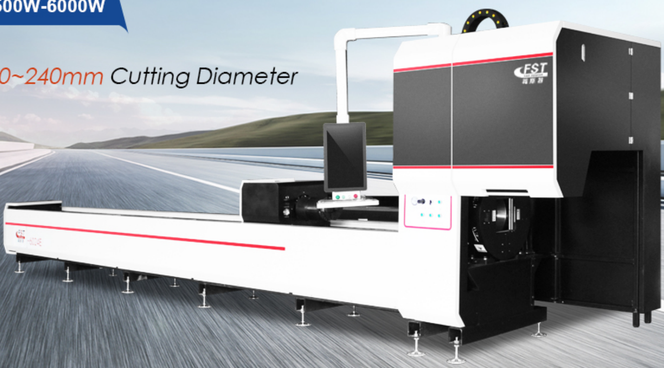
NEW

FST-6024T

➤ Tube Laser Cutting Machine

1500W-6000W

φ10~240mm Cutting Diameter



- **01** Professional pipe cutting machine
- **02** The newest pneumatic chuck
- **03** Easy to operate

➤ FST-6024 tube integrated fiber laser cutting machine

Laser tube cutting machines are advanced equipment designed for the precise and efficient cutting of metal tubes and pipes. These machines utilize high-powered laser beams to achieve clean, accurate cuts with minimal material wastage. They are widely used in various industries such as automotive, aerospace, construction, and manufacturing due to their ability to handle complex cutting tasks with high precision.

01 HIGH PRECISION CUTTING:

The laser tube cutting machine ensures precise and clean cuts, reducing the need for post-processing.
It can handle intricate designs and complex geometries with ease.

02 EFFICIENCY:

Equipped with advanced automation features, it significantly reduces production time and labor costs.
The machine can cut tubes and pipes at high speeds without compromising on quality.

03 MULTIFUNCTIONALITY:

Capable of cutting a wide range of materials, including stainless steel, carbon steel, aluminum, brass, and copper.
Suitable for cutting various shapes such as round, square, rectangular, and oval tubes.

04 ENVIRONMENTAL FRIENDLINESS:

Produces less noise and emissions compared to traditional cutting methods, making it an environmentally friendly option.

05 HIGH STABILITY AND DURABILITY:

Constructed with robust materials and components, ensuring long-term durability and minimal maintenance.
The machine’s stability during operation ensures consistent cutting quality.

06 COST SAVINGS:

Reduces material wastage and energy consumption, leading to cost savings in the long run.The multifunctional capability of cutting different types and shapes of tubes and pipes eliminates the need for multiple machines.

07 FLEXIBILITY AND CUSTOMIZATION CAPABILITY:

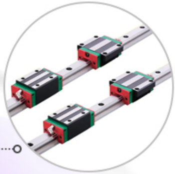
Allows for easy adjustment and customization of cutting parameters to meet specific project requirements.
Can be integrated with other manufacturing processes for streamlined production.

DISPOSITION

FOSTER LASER

Japan Shimpo
Reducer

TAIWAN YYC Rack

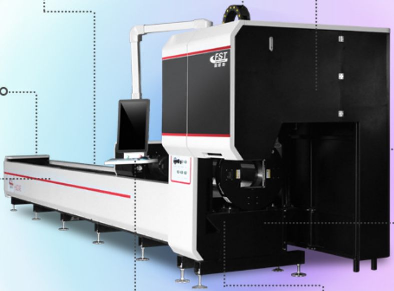


Taiwan HIWIN
Linear Guide Rails

Raycus
RFL-C6000

Raycus/MAX
Fiber Laser Generator

RAYTOOLS or OSPRI
laser cutting head.



HanLi/S&A
Water Chiller

Clamp Design

TubePro
Tube & Profile Cutting Software

TubePro
Control System

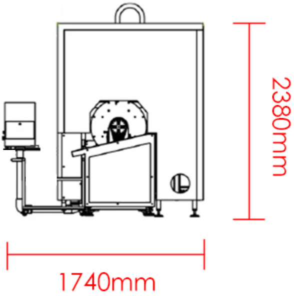
Delta/Fuji /Yaskawa
Servo Motor Driver

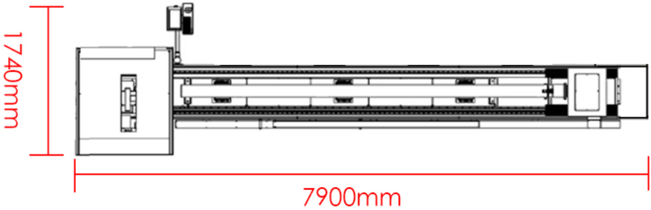
PARAMETER

Model	FST-6024T
Working area(mm)	6000*φ10~240mm
Laser Power	1500W/2000W/3000W/4000W/6000W etc.
Working table	Tube Y: 6000mm X: 250mm Z:200mm
Cooling Method	Water Cooling Protection
Cutting head	Raytools/OSPR/Au3tech/WSX/Precitec
Control system	TubePro
Laser source	Raycus/Max/Reci/IPG
Maximum Acceleration	1G
Positioning Accuracy	±0.05mm
Maximum Rotational Speed	85r/min
Machine Size	7900*1740*2380mm
Table Maximum Load(KG)	300KG
Power Parameters	Three-phase AC 380V 50Hz（Can be customized)
Machine weight	4T

What does the Affordable Metal Tube Laser Cutting Machine FST-6024T cut?

Material	1500W	2000W	3000W
Carbon Steel (mm)	1-10mm	1-10mm	1-16mm
Stainless Steel (mm)	1-6mm	1-6mm	1-8mm
Aluminium alloy (mm)		1-4mm	1-6mm





DETAILS

FOSTER LASER

FST 福斯特激光 Laser equipment FOSTER LASER

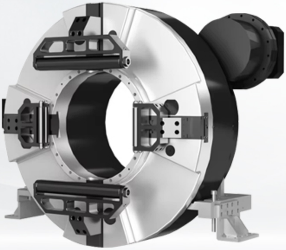
HEAVY-DUTY MECHANICAL STRUCTURE

Adopting high-quality carbon steel welding bed,
it is more stable and durable.
Which has strong structural rigidity,
small deformation, and low
vibration to ensure cutting accuracy.

FRACTIONAL AUTOMATIC SUPPORT INSTALLATION

It employs intelligent tube support design, which can solve the deformation problems in the process of long tube cutting.

FRONT CHUCK



The middle chuck adopts a fully sealed appearance dust-proof structure to prevent dust from entering, and is beautiful and generous with aluminum alloy panel + stainless steel cover buckle. Full stroke clamping range without gripper transposition adjustment, clamping force and load bearing force is strong, stable performance, high efficiency and clamping accuracy.

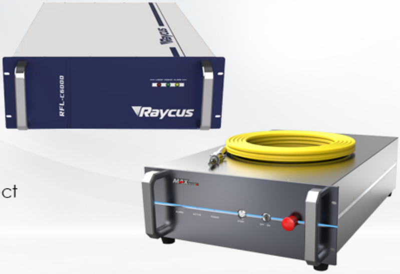
SERVO DRIVER AND SERVO MOTOR

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.

DELTA 台达 YASKAWA

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.

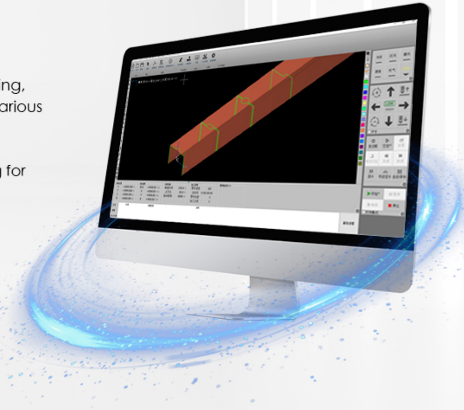


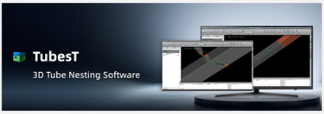
TubePro

Tube & Profile Cutting Software

TubePro designed for professional tube cutting, supports production of tube and profile of various shape. It works with TubesT nesting software seamlessly to realize technique setting, advanced toolpath generation and nesting for standard and special production need.

1.Auto Find Tube Center in Production
2.Workpiece and Floating Coordinates
3.Seven-Axis Tube Delivering
4.Tube Holder
5.Corner Technique
6.Active Control at Corner Cutting
7.Quick Frog-Leap
8.Free Form Tube & Profile Production





TubesT

3D Tube Nesting Software

TubesT is a 3D tube nesting software designed for CypTube/TubePro laser cutting system. From parts drawing and modification, full type compensation, strategic nesting to report generation, using TubesT will meet and exceed

TubesT-Lite
3D Tube Nesting Software

TubesT-Lite

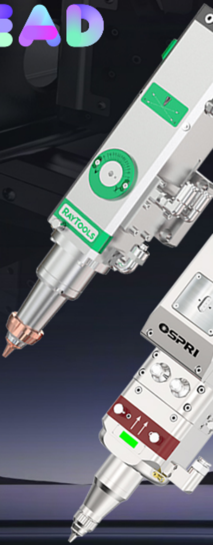
3D Tube Nesting Software

TubesT-Lite is a free software to generate toolpath for FSCUT tube cutting system. It's designed for CypTube/TubePro, can import part from external igs file, draw the part of standard shape and array-nest the part on the tube.

your production needs.

Support profiles of U/T/H/L shapes and free form shapes toolpath generation

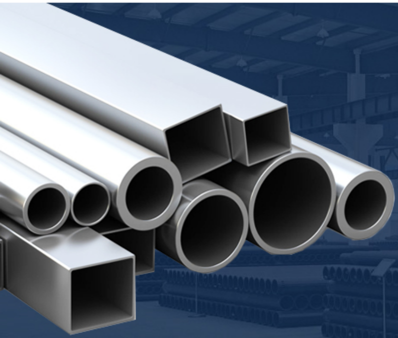
LASER CUTTING HEAD



- **Versatile Cutting:** The laser head enables high-precision cutting of 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 various types of pipes.
- **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.

APPLICATION

FOSTER LASER



APPLICATION MATERIALS

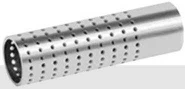
Fiber laser tube cutting machine provides exceptional versatility, capable of working with a wide range of materials including carbon steel, stainless steel, aluminum alloy, brass, copper, galvanized pipe, silicon steel tube, electrolytic pipe, titanium alloy, manganese alloy, etc.. It effortlessly handles various shapes and sizes of metal tubes, accommodating diverse project requirements.

Punch Hole

Use laser or mechanical stamping equipment to punch holes in the pipe or sheet metal.
It is usually used to make holes of a specific shape and size for installation, connection or decorative purposes.

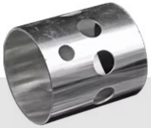
Hollow Out

Using laser cutting technology to cut part or all of the material to form a hollow structure. It is often used to make complex geometric shapes or to reduce material weight.

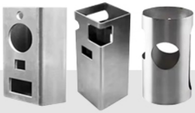


Hole Perforation

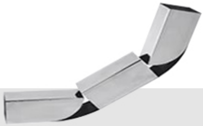
Similar to punching, multiple holes are punched in the material. It is usually used for filtration, ventilation or decorative purposes. Laser cutting machines can accurately punch holes of various sizes and shapes.



Cut Off



Shaped Tube



Co-edge

Use laser cutting technology to cut the tube or sheet completely. It is usually used for material separation or segmenting.

Through laser cutting and other processing techniques, the tube is cut into a specific shape. These shapes can be round, square, rectangular, or other complex geometric shapes for different applications and design needs.

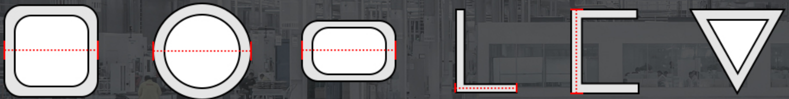
In the laser cutting process, the cutting path is optimized so that multiple cutting edges share the same cutting line. This technology can reduce material waste and cutting time, improving production efficiency.

INTELLIGENT RECOGNITION

With contour recognition system,it can automatically identify standard round, oval, square and other special-shaped pipes.

Tubes realize non-inductive and high-efficiency detection, and realize the position deviation of the whole meter section's cutting accuracy within 0.15mm.

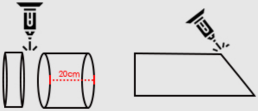
Processing round pipes, square pipes, rectangular pipes Single tube load bearing up to 300kg.



Square Pipe	Round Pipe	Rectangular	Angle	Channel	Other Shapes
□ 15mm-165mm	Φ10mm-Φ240mm	□ 15mm-165mm			

Our machines can be upgraded to bevel cutting, 3D cutting and zero tail material.

This machine tail material is about 20cm



APPLICATION INDUSTRY

The sheet metal laser cutting machine has extensive applications in decoration, infra-structure, construction, microelectronic, advertising, kitchen appliance, automobile andother equipment manufacturing, and other industries.

Construction

Automobile

microelectronic

Shipbuilding

OPTIONAL

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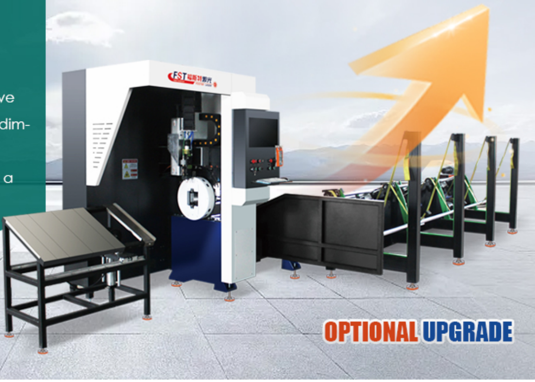
Automatic Loading And Uploading

The machine is equipped with automatic loading and unloading, which can improve the utilization rate of the machine tool andimprove the work efficiency, save a lot of human resources, and meet the needs of a variety of simple material handling until the full automatic operation.



激光切割专用
Laser cutting wisdom

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)

LASER NOZZLE

3D M8 H19(Optional)

CERAMIC RING

3D M8 D19.5(Optional)

PROTECTIVE LENS

D27.9x4.1(Optional)

FOCUSING LENS

D30-F155(Optional)

QUALITY

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Laser equipment
FOSTER LASER

QUALITY CONTROL LINES

Foster Laser

Machine Bead

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

Rail Installation

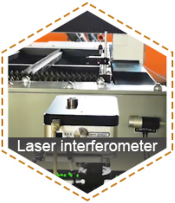
Use photoelectric autocollimator to detect the straightness and flatness of the guide rail to ensure that the detection value is with in the standard range.

Rack Installation

The relative position of the guide rail and the guide rail is locked and clamped by the measuring rod , Statistics and analysis of measurement data to ensure thatthey are parallel.

Cutting test

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



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

Beam inspection

After the beam is installed,Use athree-coordinate measuring instrument tocheck the coaxiality to ensure the relative perpendicularity of the X/Y/Z three-axis.

Sample inspection

Cutting sample inspection

Packing inspection

Safe multi-layer packaging, or transport in wooden cases.

CERTIFICATE

FOSTER LASER

FST 福斯特激光
Laser equipment
FOSTER LASER

10+

Our brand has been registered in more than 10 countries

Mexico **Britain** **Brazil**

WIPO

WORLD
INTELLECTUAL
ORGANIZATION

Germany

Indonesia

Italy

United States

FOSTER LASER

FST Laser equipment 福斯特

Certificate Achievements

CERTIFICATE

Certificate of Conformity

CERTIFICATE OF CONFORMITY

RoHS

Supplier's Declaration of Conformity

CERTIFICATE OF CONFORMITY

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Proof of RCM Compliance

发明专利证书

发明专利证书

Our company has passed ROHS,CE,FCC,RCM,IS0 9001 and other certifications

ISO 9001

FC

CE

RoHS

PACKAGING

FOSTER LASER

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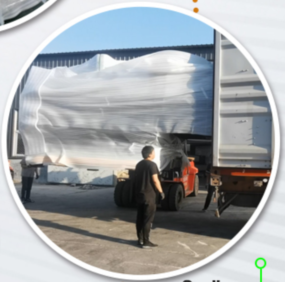
DHL

FedEx Express

UPS

Cleaning

Packing



Sealing

Forklift Handling

Loading

Shipping

COMPANY PROFILE

FST Laser equipment 福斯特

Liaocheng Foster Laser Science & Technology Co , Ltd is a professional manufacturer of laser engraving machine , laser cutting machine , laser marking machine laser weldingcleaning machine for 20 years .

Since 2004 , Foster Laser focused on thedevelopment and production of various types of laser engraving cutting / marking /welding/cleaning machine with the advanced management , strong research strength and steady globalization strategy , Foster Laser establish more perfect productsales and service system in China and around the world , make the worlds brand in laser industry.

Our target is scientific management , high quality , high reputation and takes continuous development as ourpolicy , regards customers as our center , double win with our customers " , and we adhere to our tenet of " take themarket demand as the guide , continue to take innovation and make improvement " . We will try our best to provide thehigh quality products and perfect service for clients.

Furthermore , we pay much attention to after-sales service . Good service and good quality is same important forFoster Laser will follow the spint Credibility and Integrity , try best to provide customer more super product andbetter service.

Foster Laser--rellable professional Laser equipment supplier.

Welcome to cooperate with us and achieve win-win !

300+

We currently produce 60 sets of fiber laser cutting machines per month, with a goal of 300 sets per month.

30000㎡

Our factory is in Liaocheng, with a 30,000-square-meter standardized workshop.

27+

We currently hold 27 technical patents, with more being added each year.

4

We own four separate trademarks. Foster laser is our worldwide trademark, which is currently being accepted.

界爱上中国智造
ldwide 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

FST
Laser equipment
福斯特

FST-6024T
FST Laser equipment 福斯特
A0384
A0384
FST 福斯特
FST-6025PH
FST-1080
LASER CUTTING MACHINE
FIBER LASER WELDING MACHINE
FACTORY DIRECT SUPPLIER
LASER CUTTING MACHINE
FST Laser equipment 福斯特

FST Laser equipment 福斯特

FST Laser equipment 福斯特
FOSTER LASER

AFTER SALES SERVICE

FST 福斯特
Laser equipment

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.

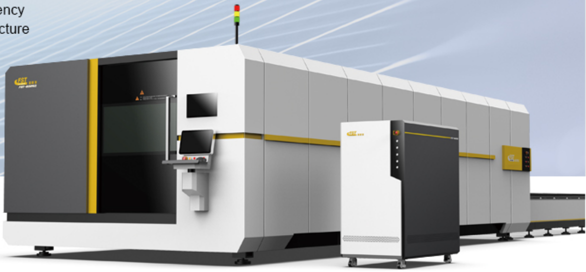
OTHER MODELS

PH Series

FST-6025

FULL ENCLOSED FIBER LASER CUTTING MACHINE

Fast Speed Cutting, Improve Efficiency
Brand New Double-beam Bed Structure



FST-3015

FM Series (Above 6000W)

FLATBED FIBER LASER CUTTING MACHINE

Fast Speed Cutting, Improve Efficiency
Efficient And Practical, Completely Upgraded

FST-3015
FST

FAT Series

FULLY AUTOMATIC LASER TUBE CUTTING MACHINE

FST-6012

Side-Mounted Laser Pipe Cutting Machine
All Kinds Of Pipes Are With in Reach

E Series

EXCHANGE TABLE FIBER LASER CUTTING MACHINE

FST-3015E

Save processing time
Improve processing efficiency