800W/1200W/1500W

FST-4040 DESKTOP LASER CUTTING MACHINE

- ☑ High precision
- ☑ Air Cooling
- ☑ Multi-material
- ☑ Safe and reliable



Aluminum



Thin wooden board



Copper



Ceramics

SELLING POINT

01. ULTRA HIGH PRECISION MARKING

Adopts JPT fiber laser source & high-speed cutting head, cutting accuracy ±0.1mm. the cutting surface is smooth without any burrs., perfect for jewelry, rings, watches & delicate DIY crafts.

02. COMPACT DESKTOP DESIGN

Net weight 160kg, small footprint, fits easily on workbenches. Standard 400×400mm working area. Great for home studios, jewelry workshops & mobile engraving business, easy storage & moving.

03. LOW MAINTENANCE & LONG LIFESPAN

100,000+ hours laser module lifespan. Air cooling design, no water & extra consumables. Plug-and-play, save running cost.

04. POWERFUL SOFTWARE & ROTARY OPTION

Ruida 8445FM Control System: Supports import of multiple mainstream file formats, built-in rotary control function for stable processing of cylindrical workpieces such as mugs and pens.

05. COMMERCIAL READY & SAFE CERTIFIED

Suitable for pet tags, metal namecards, tool marking, electronic & medical parts, promotional gifts. CE & FDA certified, secure packaging & fast global shipping.

06. BROAD MATERIAL COMPATIBILITY

It can cut various metal materials such as gold, silver, stainless steel, aluminum, copper, and brass. It can also cut thin wooden boards and carve ceramics.

PARAMETERS

Model	Desktop Laser Cutting Machine
Maximum laser power	800W/1200W/1500W
Working area	400*400mm
Wavelength	1070nm±10nm
Material Fixture	Manual edge clamping
Cutting Thickness(1500W)	Carbon steel: ≤5mm Stainless Steel: ≤4mm Aluminum: ≤2.5mm
Laser source	JPT
Positioning Accuracy	±0.1mm
Repeat Accuracy	±0.05mm
Power input	220V，50/60Hz (110V can be customized)
Cooling method	Air-cooling
Fiber optic model	QBH
Weight	160KG
Size	920*940*970mm

Modular Z-axis, equipped with bellows dust cover and metal corrugated tube for cable protection.

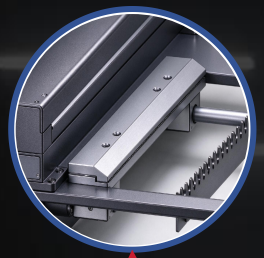
Manual clamping device to firmly hold workpieces, prevent shifting during processing and improve machining accuracy.

WiFi mobile APP control (optional), convenient operation via mobile devices.

Dual-color audible & visual status indicator, clearly showing running and alarm status.

Ruida control system, for both engraving and cutting.











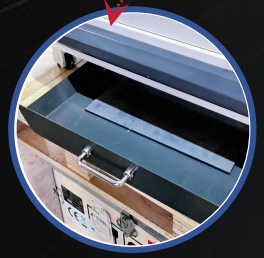
Laser attenuation protective viewing window to protect operator's eyesight.







Rear waterproof aviation plug, improving the protection grade of connectors.



Выдвижной ящик для отходов, удобен в очистке, собирает пыль и обрезки лазерной резки, герметичный и прочный.



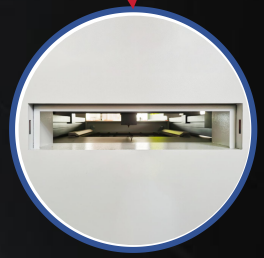
Safety door interlock: machine stops immediately with audible & visual alarm when the door is opened.



Air-cooled continuous fiber laser, capable of processing metals, ceramics and non-metals.



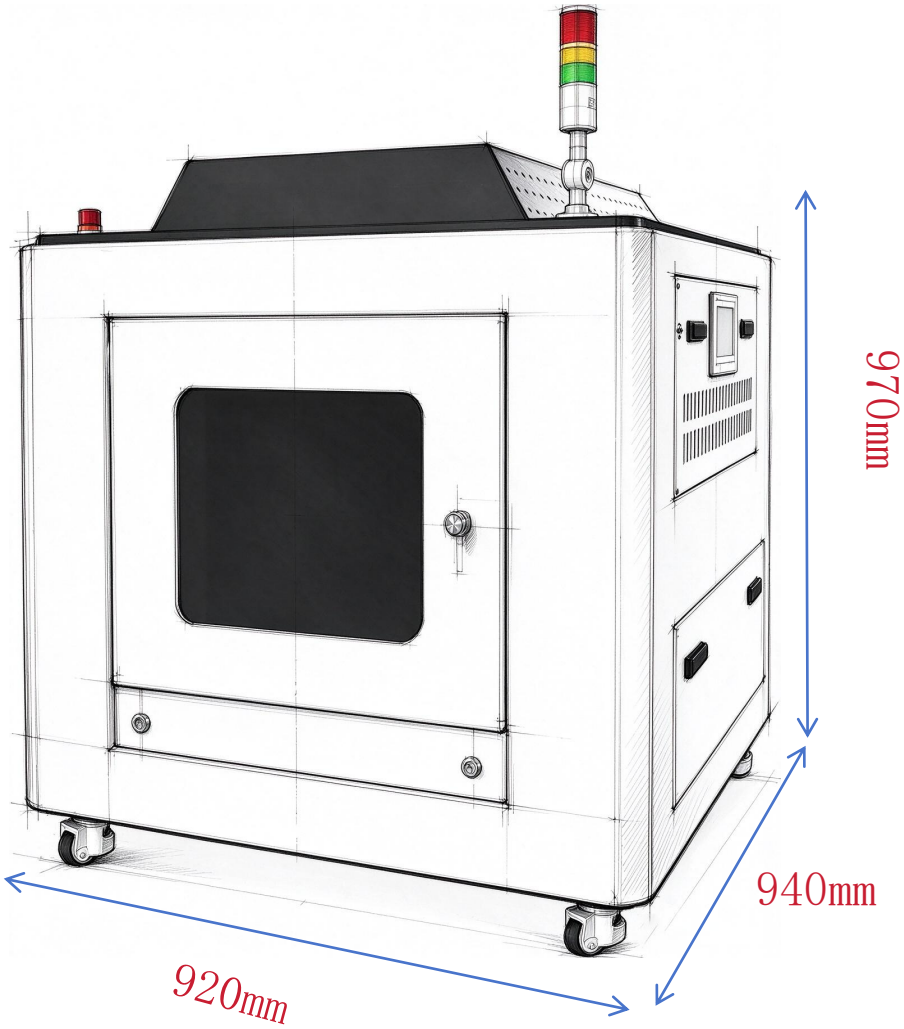
External smoke exhaust fan (optional), for fume and particulate collection and treatment.

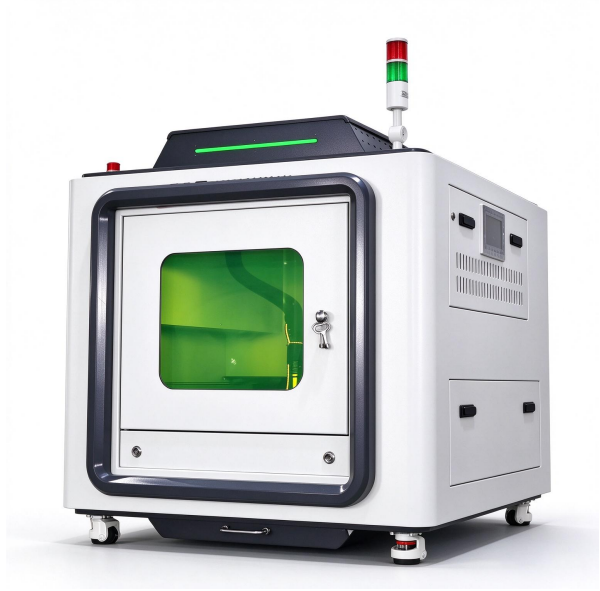


Removable front and rear baffles, allowing through-feed processing for long workpieces.

PRODUCT SIZE

Model name	**FR-4040**
Weight	160KG
Length	920mm
Width	940mm
Height	970mm







☑ A standalone fiber cutting control system specially designed for desktop fiber equipment.

☑ Dual light source control interface, supporting metal and non-metal processing.

☑ Compatible with stainless steel, carbon steel, galvanized sheet, brass, aluminum, wood board, acrylic and other materials.

☑ The main board comes with 8G storage space to store a large number of files.

☑ Equipped with an independent touch screen, supporting offline processing.

☑ Compatible with professional Mini cutting head, and an external amplifier is optional.

☑ Supports: leapfrog, micro-joint, piercing, lead-in line and other functions.

☑ Camera function supported.

RDC8445FM-GT5 CONTROL SYSTEM



CUTTING HEAD

With built-in amplifier. It features a more compact and elegant appearance, and delivers superior durability compared with consumer-grade fiber cutting heads available on the market.



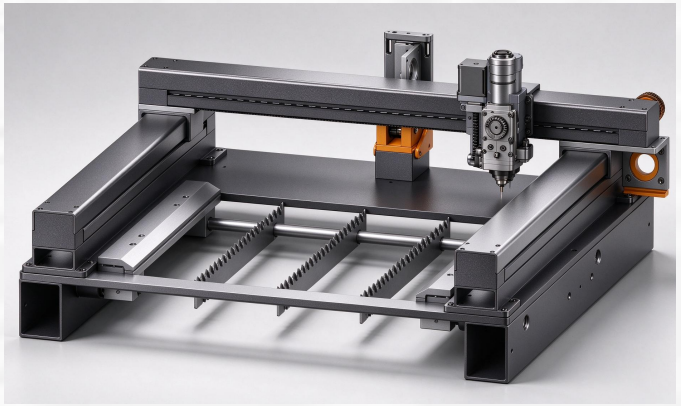
JPT LASER SOURCE

Fast heat dissipation prevents overheating, stable power ensures consistent cutting, and low-temperature control extends component service life.



HEAVY-DUTY ALUMINUM FRAME

Heavy-duty aluminum frame with solid rigid structure and low vibration during high-speed movement. Rust-proof and durable to keep stable cutting accuracy for long continuous operation.



30MM STEEL-CORE DRIVE BELT

Heavy-duty timing belt with steel-core reinforcement, wear-resistant high-strength construction, precise tooth engagement for no tooth skipping, optimized for laser cutter drive systems.





SERVO DRIVER AND SERVO MOTOR

Drive XYZ axes following programmed commands, delivering stable motion for high-precision complex cutting. Parameters are adjustable as required.

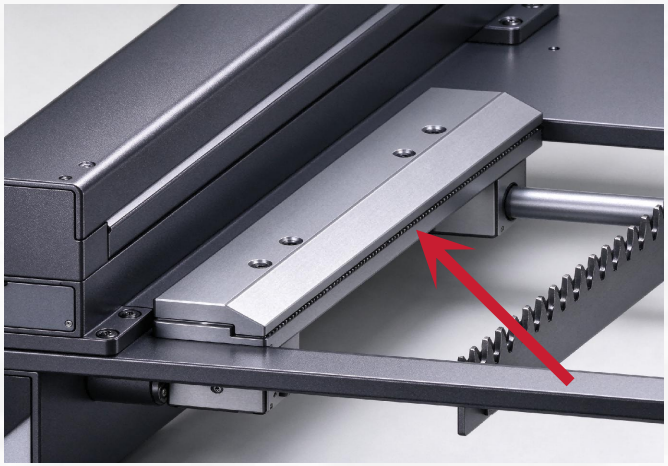
DUAL-COLOR WARNING LIGHT

Equipped with dual-color warning lights, it can synchronously display the equipment status in real time. The working condition can be observed from a distance, and an immediate alarm will be triggered in case of a fault, facilitating maintenance and ensuring stable production.



MANUAL MATERIAL CLAMPING DEVICE

- Firm clamping, reduce plate vibration & deformation
- Adjustable for different thin sheet sizes
- Fast clamp & release, high efficiency
- Compact design, no collision with cutting path



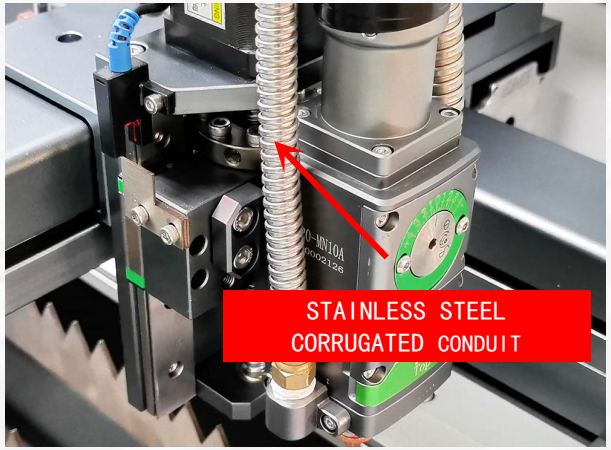
WASTE COLLECTION BOX

The scrap collection drawer of the 4040 laser cutter adopts a pull-out design for easy cleaning. It collects cutting dust and debris efficiently, keeps the machine inner space tidy, and reduces fire risks. Made of sturdy sheet metal, it fits tightly without air leakage.



STAINLESS STEEL CORRUGATED CONDUIT

Premium stainless steel cable bellows, rust/wear/oil resistant. Flexible corrugated design for complex wiring, fully protects cables from scraps, dust and mechanical damage to avoid short circuits. Long service life reduces maintenance costs.















Applicable material:

It can cut various metal materials such as gold, silver, stainless steel, aluminum, copper, and brass. It can also cut thin wooden boards and carve ceramics.









10 YEARS PROFESSIONAL ODM/OEM MANUFACTURER OF LASER EQUIPMENT

30,000㎡+

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.


A05
A06
A07











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

1.Strict Quality Control Standards
2.Authoritative Certification
3.Brand Guarantee



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.