FST
Laser equipment
福斯特

福斯特激光
FOSTER LASER

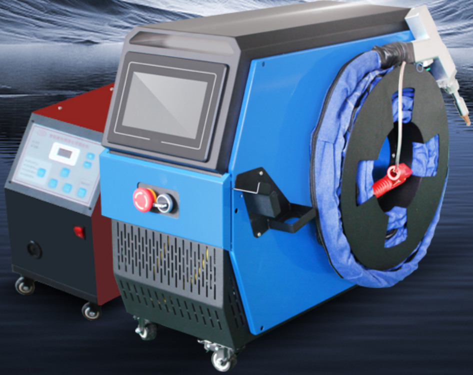
4IN1 AIR-COOLED LASER WELDING MACHINE

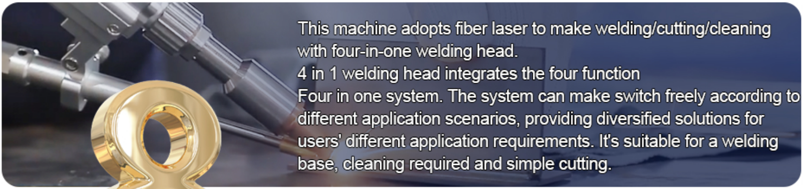
Small size easy to carry

Continuously working

Low cost

Flexible use





This machine adopts fiber laser to make welding/cutting/cleaning with four-in-one welding head.
4 in 1 welding head integrates the four function
Four in one system. The system can make switch freely according to different application scenarios, providing diversified solutions for users' different application requirements. It's suitable for a welding base, cleaning required and simple cutting.

THE KEY SELLING POINTS OF AIR-COOLED LASER WELDING MACHINE

01

No Water Cooling Required: Utilizes an air-cooling system instead of the traditional water-cooling setup, reducing equipment complexity and dependence on water resources.

02

Ease of Maintenance: Air cooling systems are easier to maintain than water cooling systems, lowering long-term operational costs and maintenance efforts.

03

Strong Environmental Adaptability: The absence of a water cooling requirement enables air-cooled laser welding machines to operate in a wider range of environments, particularly in areas where water is scarce or water quality is a concern.

04

Portability: Many air-cooled laser welding machines are designed to be handheld or portable, making them convenient to move and use across different work settings.

05

High Energy Efficiency: These machines typically boast high energy conversion efficiency, meaning electricity is used more effectively during welding operations.

User-Friendly Operation: Equipped with user-friendly interfaces, such as touchscreen control panels, making the operation of the machines straightforward and intuitive.

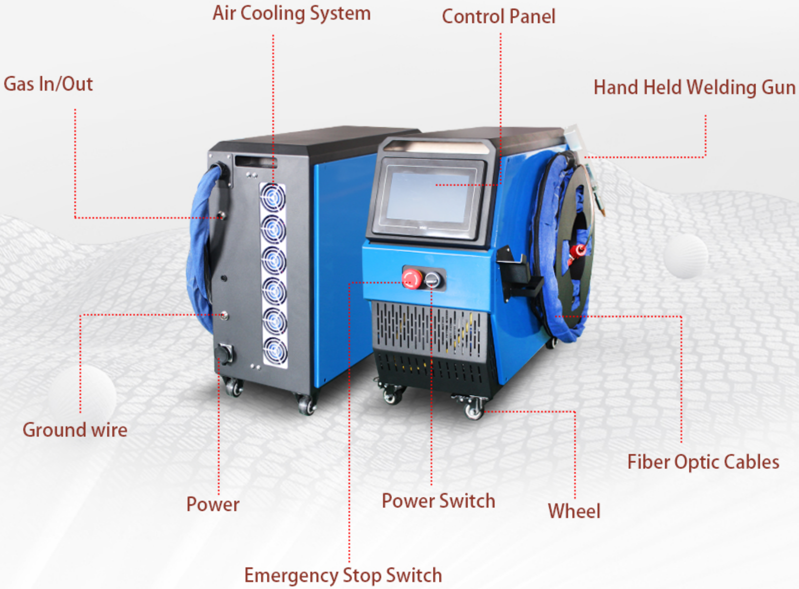
06

07

Versatile Applicability: Capable of welding a wide variety of materials and thicknesses, including but not limited to stainless steel, carbon steel, and aluminum alloys.

High-Quality Welds: Delivers precise and superior welding results with smooth and attractive welds, minimal heat-affected zones, and low distortion.

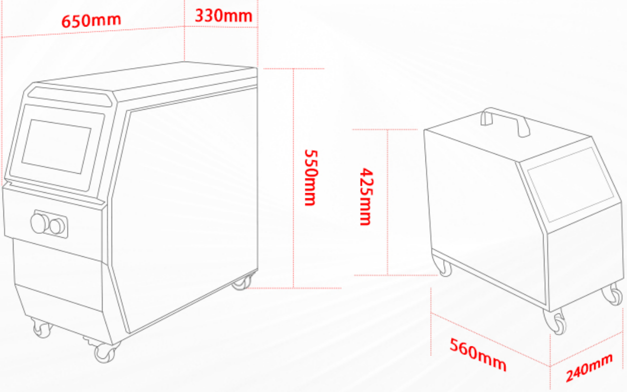
08



WEIGHT:37KG

Light weight, small size and easy to carry

Put it in the trunk of the SUV



PRODUCT COMPARISON

Low Suitable for lasers with low to medium power	Cooling efficiency	High Can be adapted to high power lasers
Simple, no complex cooling system	Equipment complexity	More complex, Need to maintain the cooling water circulation system
Low Mainly to periodically clean the fan and heat sink	Maintenance requirements	High, need to regularly replace the cooling water, clean the waterway, check the pump and pipeline
Not limited by water resources, More suitable for mobile use and harsh environments	Applicable environment	Usually requires access to water, suitable for fixed installation and stable environment

Low, mainly for electricity consumption	Running cost	Higher, including water consumption and electricity consumption
High, the equipment is usually lighter	Portability	Low, because the cooling system makes the equipment heavy, not easy to move
Fast, almost no need to warm up	Start time	Slow. It takes time for the cooling system to start up and stabilize
Relatively poor, High power for a long time may lead to overheating	Temperature control	Excellent, cooling water can effectively control the operating temperature, even under high power for a long time

The 4 in 1 laser welding cleaning cutting machine can not only clean the metal surface contaminants, but also weld and cut various metal materials. It is a multi-functional laser equipment. And it has three modes of welding cleaning and cutting, which can be flexibly switched.

4IN1 WITH SUPER COST-EFFECTIVE

WELDING
CLEANING

CUTTING
SEAM CLEANING

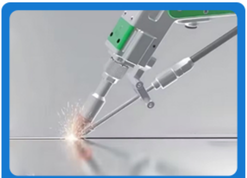
CAN SWITCH BETWEEN FOUR DIFFERENT GUN HEADS

Cleaning

Welding

Seam Cleaning

Cutting

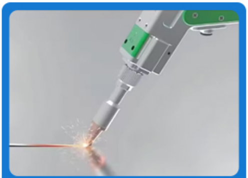


LASER WELDING HEAD

Lightweight and flexible, can weld any part of the workpiece.
Drawer type protection mirror and focus mirror, easy to change.

LASER CLEANING HEAD

Lightweight and flexible in the hand 360°.
Cleaning without dead ends.



LASER CUTTING HEAD

Capable of cutting carbon steel, aluminum plate, copper sheet and othermetal materials

LASER NOZZLE

Standard accessories for laser nozzles,
supporting external, internal,
flat, wire feeding, cutting,
and seam cleaning.

AS-12

BS-16

CS-12

ES-12

FS-16

AS-20

C

PARAMETERS

Model No	FST-A1150	FST-A1250	FST-A1450	FST-A1950
Operating Mode	Continuous Modulation			
Cooling Mode	Air Cooling			
Power Requirements	220V± 10% 50/60Hz			
Machine Power	1150W	1250W	1450W	1950W
Welding Thickness	Stainless steel 3mm Carbon steel 3mm Aluminium alloy 2mm	Stainless steel 3mm Carbon steel 3mm Aluminium alloy 2mm	Stainless steel 4mm Carbon steel 4mm Aluminium alloy3mm	Stainless steel 4mm Carbon steel 4mm Aluminium alloy3mm
Gross Weight	37KG			
Fiber length	10m（Standards）			
Machine Size	650*330*550mm			

DOUBLE SWING

7 different working modes

Circle Mode

Half Circle Mode

Circle Ring Mode

Triangle Mode

Wobbling head with craft package

Ellipse Mode

Sine Mode

Line Mode

PRODUCTS ACCESSORIES

01

Nozzle

02

Wire feeder

01

Send Silk Set

02

01

02

Goggles

Ground clamp

Protective lenses

FST LASER WELDING MACHINE SERIES

Air cooled
handheld laser welding machine

Mini air cooled
handheld laser welding machine

Water cooled
handheld laser welding machine

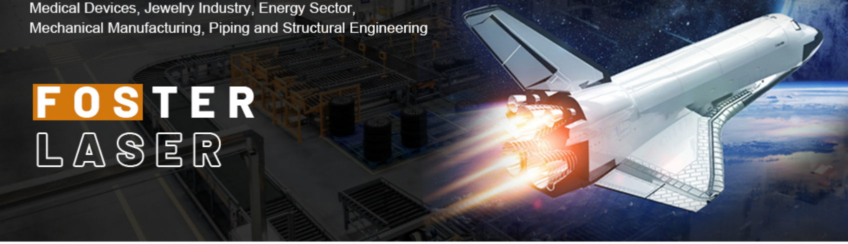
Mini water cooled
handheld laser welding machine

Application materials:

Stainless Steel, Carbon Steel, Aluminum and Aluminum Alloys, Copper and Copper Alloy, Titanium and Titanium Alloys, etc.

Application Area:

Automotive Manufacturing, Aerospace, Electronics and Microelectronics, Medical Devices, Jewelry Industry, Energy Sector, Mechanical Manufacturing, Piping and Structural Engineering



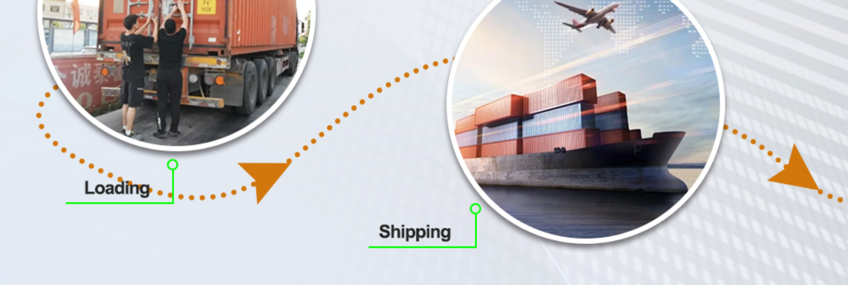
PACKAGING DELIVERY

Cleaning

Packing

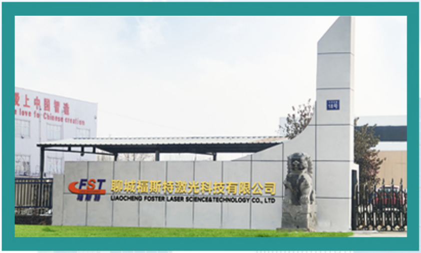
Sealing

Forklift Handling



COMPANY PROFILE

Liaocheng Foster Laser Science & Technology Co., Ltd.


FST 聊城福斯特激光科技有限公司
LIAOCHENG FOSTER LASER SCIENCE&TECHNOLOGY CO., LTD

ABOUT US

Liaocheng Foster Laser Science & Technology Co.,Ltd.is a professional manufacturer of industrial laser equipment for 20 years.

Since 2004,Foster Laser focused on the development 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 product sales and service system in China and around the world,make the world's brand in laser industry.

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

OUR CERTIFICATES

CERTIFICATE OF CONFORMITY

Supplier's Declar
Conformity

UDEM

MACHINERY DIRECTIVE, ELECTROMAGNETIC COMPATIBILITY DIRECTIVE
ATTESTATION OF CONFORMITY

UDEM

CERTIFICATE

ATTESTATION CERTIFICATE
OF MACHINERY AND ELECTROMAGNETIC
COMPATIBILITY DIRECTIVES

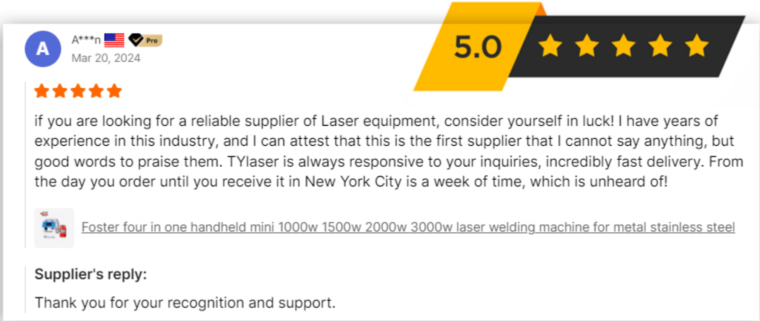
U.S. FOOD & DRUG
ADMINISTRATION

ertificate of Conformity

ISO 9001 FDA FC CE RoHS

EXHIBITION

FOSTER
LASER



5.0 ★★★★★

A***n
Mar 20, 2024

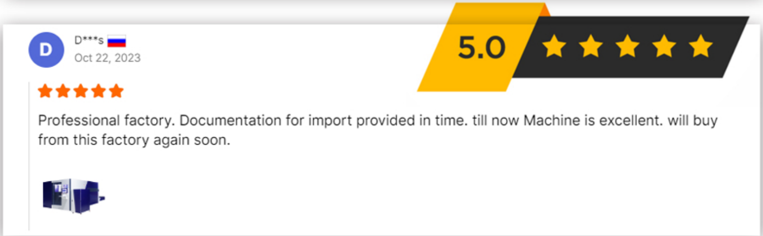
★★★★★

if you are looking for a reliable supplier of Laser equipment, consider yourself in luck! I have years of experience in this industry, and I can attest that this is the first supplier that I cannot say anything, but good words to praise them. TYlaser is always responsive to your inquiries, incredibly fast delivery. From the day you order until you receive it in New York City is a week of time, which is unheard of!

Foster four in one handheld mini 1000w 1500w 2000w 3000w laser welding machine for metal stainless steel

Supplier's reply:

Thank you for your recognition and support.

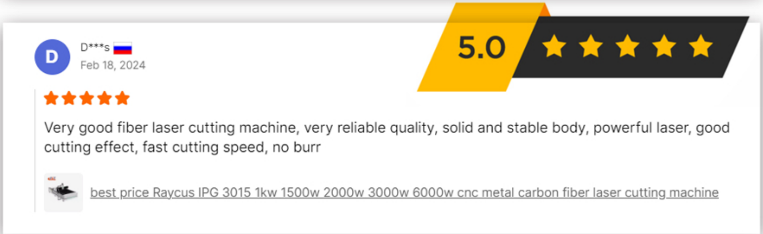


5.0 ★★★★★

D***s
Oct 22, 2023

★★★★★

Professional factory. Documentation for import provided in time. till now Machine is excellent. will buy from this factory again soon.



5.0 ★★★★★

D***s
Feb 18, 2024

★★★★★

Very good fiber laser cutting machine, very reliable quality, solid and stable body, powerful laser, good cutting effect, fast cutting speed, no burr

best price Raycus IPG 3015 1kw 1500w 2000w 3000w 6000w cnc metal carbon fiber laser cutting machine

5.0 ★★★★★

L***l
Feb 18, 2024

★★★★★

We have received the Fiber laser cutting machine successfully. it's very good. Thank you for your professional team and service.

Best 3015 1530 stainless steel copper aluminum fiber laser cutter price 1kw 3kw cnc metal laser cutting machine for sheet metal

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.