FST
Laser equipment
福斯特

6000W HIGH POWER FIBER LASER CLEANING MACHINE

6000W
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福斯特

HIGH POWER

LARGE WORKING AREA

SAFETY IN USE

USE IN MULTIPLE SCENARIOS

6000W continuous laser cleaning machine is suitable for large structural steel surface rust and paint removal. It has high power and high efficiency; Large scale cleaning, it can increase the roughness of the metal surface while removing rust, suitable for secondary coating.

01

SELLING POINT

FOSTER LASER

1 / NON CONTACT

The 6000 watt cleaning focusing lens adopts an F1800 focal length. When cleaning, it is about 1.5 meters away from the surface of the workpiece and has two blowing paths to better isolate pollutants and protect the lens from contamination.

2 / HIGH SPEED PERFORMANCE

The cleaning speed is faster and the cleaning effect is cleaner. A 6000 watt cleaning can clean about 27 square meters of oxide layer, 90 square meters of rust, and 20 square meters of paint per hour (the specific material removal rate depends on the laser parameters and material characteristics)

3 / SECURITY

Laser cleaning does not require additional grinding materials or chemical solvents, and there is no noise, dust, or harmful substances. Any steam generated during the cleaning process can be easily removed through the exhaust system.

4 / FLEXIBLE AND VERSATILE

With its excellent power to bring efficient cleaning experience, the working format has high flexibility. The cleaning width can be adjusted freely from 200 to 500mm to meet the cleaning needs of different scenes and different specifications of the workpiece, whether it is a narrow part or a large area to be cleaned surface, it can be easily handled.

5 / PORTABILITY

Being portable, these machines are smaller and more mobile compared to their stationary counterparts. This makes them ideal for on-site cleaning tasks in various environments, such as industrial settings, historic restoration sites, and manufacturing plants.

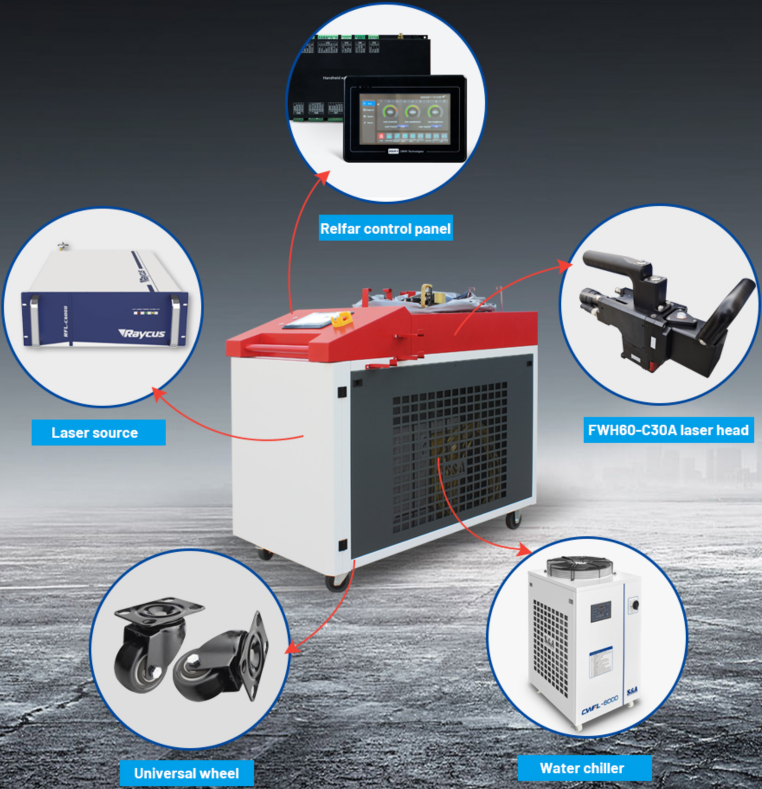
6 / WIDELY APPLICABLE

They are used in a wide range of applications, including rust removal, paint stripping, cleaning of historical artifacts, and preparation of metal surfaces for welding or coating. Their precision makes them particularly useful in industries where maintaining the integrity of the original surface is crucial.

02

CONFIGURATION

FOSTER LASER


Relfar control panel

Laser source

FWH60-C30A laser head

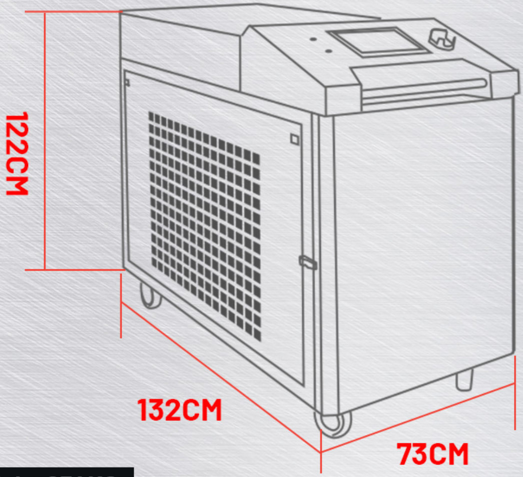
Universal wheel

Water chiller

03

SIZE

FOSTER LASER



Weight:254KG

04

PARAMETERS

FOSTER LASER

Model	FST-6000
Laser Power	6000W
Laser Type	MAX/Raycus
Central wavelength	1064mn

Cable length	10M
Cleaning efficiency	20m³/h
Support language	English, Chinese, Japanese, Korean, Russian, Polish, German, etc
Cooling Type	Water cooling
Pulse-Frequency (KHz)	20-200
Scanning Width (mm)	10-300/500mm
Expected Focal Distance	160m
Input Power	380V 50Hz
Dimensions	1320mmx720mmx1220mm
weight	254kg

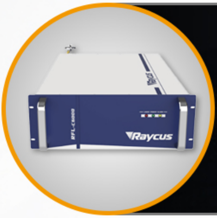
05

DETAIL

FOSTER LASER

LASER CLEANING HEAD

1. Safety lock switch
2. Button switch (double-click button)
3. Safety induction switch
4. Lens detection alarm (protection, focusing, reflection, collimation) and external detection alarm (laser, water cooler, air pressure)



LASER SOURCE

China's famous laser brand, to provide high quality laser beam and perfect after-sales support system, to ensure that users enjoy timely and efficient service. Carefully designed, rigorously tested and energy efficient, the device has a lifespan of 100,000 hours - far exceeding industry standards.

RELFAR CONTROLLE

Strong compatibility. Multiple light emission modes.
Maintenance-free, and long service life.
Can connect to mobile phone to operation the machine easily.

INDUSTRIAL S&A WATER CHILLER

Specially developed for fiber laser equipment, excellent cooling effect.
Stable and reliable performance, low failure rate, energy efficient.

06

LASER HEAD

FOSTER LASER

Light and convenient

Flexible cleaning on large and irreqular workpieces

Laser cleaning head

Red light positioning assistance ,
precise control , efficient cleaning

Safety lock

Double protection, safe production

Cleaning range

3000W support 10-300
6000W support 10-300/500mm

Alarm indicator light

Real-time monitoring of machine working status, timely warning, reduce machine loss

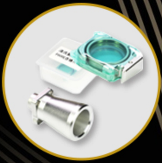
07

ACCESSORIES

FOSTER LASER

Goggles

Protective lenses



Cleaning components

Tool protection

Chiller accessories

Regulating valve

FST
CLEANING
User Manual
HAND-HELD LASER CLEANING MACHINE

User Manual

Air tube

08

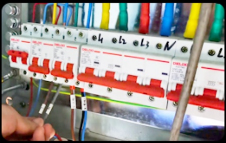
COMPARISON

FOSTER LASER

Laser cleaning VS Traditional cleaning

	Laser cleaning	chemical cleaning	Mechanical polishing	Dry ice cleaning	Ultrasonic cleaning
Cleaning method	**Contactless**	Chemical cleaning agent contact type	Mechanical sandpaper contact type	Dry ice non-contact	Cleaning agent contact type
Workpiece damage	**No damage**	Damage	No damage	No damage	No damage
working efficiency	**High**	Low	Low	Medium	Medium
Consumables	**Just power on**	Chemical cleaning agent	Sandpaper, grinding wheel, etc	Dry ice	Special cleaning solution
Rust removal effect	**Excellent high cleanliness**	Uneven	Uneven	Excellent uneven	Excellent small shortcut range
Accuracy	**Excellent high cleanliness**	Uncontrollable	Average accuracy uncontrollable	Uncontrollable poor accuracy	No designated area for cleaning
Pollution range	**Less**	Large	Large	Small	Large
Operation complexity	**Simple, handheld or automated**	The process is complex and protective measures need to be taken.	Labor intensive requiring protective measures	Simple, handheld or automated	Simple, requires manual addition of consumables
Cost input	**High initial investment, no consumables, and low maintenance costs.**	Low initial investment and high later consumables costs	Low initial investment and high later consumables costs	Medium initial investment and high consumables cost	Low initial investment and moderate consumables cost

Operation process

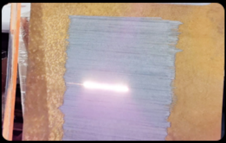

01.Connect the power switch

02.Adjusting air pressure

03.Turn on the emergency stop switch

04.Operating software

05.Cleaning


06.Cleaning effect

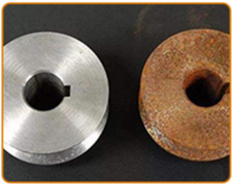
09

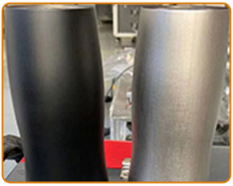
COMPARISON

FOSTER LASER

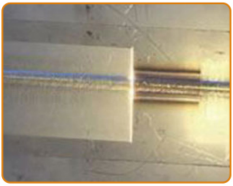
PRODUCT CLEANING EFFECT DISPLAY

Support
For
Customized Services


Remove rust


Remove paint

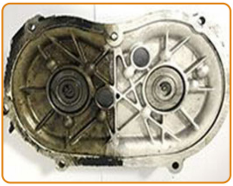
Remove oxide laver



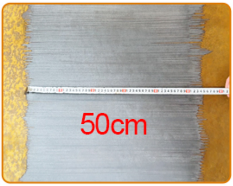
Clean the weld seam

Mold cleaning

Stone cleaning



Remove oil



Remove rust

10 YEARS PROFESSIONAL ODM/OEM MANUFACTURER OF LASER EQUIPMENT

30,000m²+	27+	300+	4+
30,000-square-meter standardized workshop.	We currently hold 27 technical patents.	We produce more than 300 laser equipment every month.	We own four separate trademarks.

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
以厚德 润天下

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.

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

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 of Conform
CERTIFICATE
Supplier's Declaration of Conformity

1

Machine cleaning and
Protective oil processing

2

Wrapping with
protective film

3

Forklift moving goods

4

Container loading

5

Container Sealing

6

Transportation

MAERSK

msc

COSCO SHIPPING

CMA CGM

EVERGREEN

Hapag-Lloyd Flug

FST
福斯特

EXHIBITION

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

VIEW MORE >>

FOSTER LASER
FST

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.