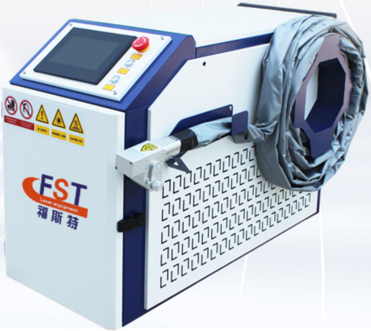
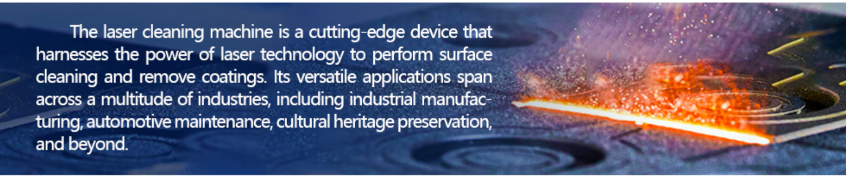
Continuous Laser Cleaning Machine

1000W-3000W Optional

Personalized customization



- *Rust removal*
- *Grease removal*
- *Paint removal*
- *Oxide layer removal*



The laser cleaning machine is a cutting-edge device that harnesses the power of laser technology to perform surface cleaning and remove coatings. Its versatile applications span across a multitude of industries, including industrial manufacturing, automotive maintenance, cultural heritage preservation, and beyond.

01 Non-Contact Cleaning: Laser cleaning operates without physical contact, preventing wear and tear during the cleaning process. This feature is especially advantageous for maintaining high precision on the object's surface.

02 High Precision and Control: Laser beam focus is meticulously controlled, enabling the targeted removal of contaminants from specific areas while leaving surrounding regions unaffected.

03 Chemical-Free Process: Laser cleaning is a purely physical method, eliminating the need for chemical solvents or cleaning agents. This not only avoids chemical pollution but also sidesteps concerns related to waste disposal.

04 Energy-Efficiency and Environmental Friendliness: Laser cleaning typically consumes less energy compared to traditional methods, and it generates minimal wastewater or exhaust gases, aligning with eco-friendly practices.

05 Versatility Across Materials: Laser cleaning's applications span various materials, showcasing remarkable adaptability.

Product features

8+

Advantage

- Fast cleaning
- Long focal length non-contact cleaning
- Easy to operate
- Remote cleaning
- Customized automation on demand
- Precise controlled cleaning
- Large surface cleaning
- Environmental protection and no pollution

APPLICATION

01 SURFACE RUST REMOVAL

02 DUST AND DEBRIS REMOVAL FROM STONE STATUES' SURFACES

03 SURFACE PAINT STRIPPING AND REMOVAL

04 SURFACE OIL, STAIN, AND DIRT CLEANING

05 SURFACE COATING AND LAYER REMOVAL

06 WELDING SURFACE/SPRAY SURFACE PRE-TREATMENT

07 RESIDUE CLEANING FROM RUBBER MOLDS

... DETAIL DISPLAY ...

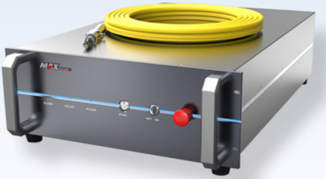
LASER HEAD BRAND

Support Relfar, Super chaoqiang, Qilin Au3Tech different brands of cleaning head.

- Safety – Temperature real-time monitoring
- Time saving – Easy replacement lens
- Lightness – Small size, easy to use and simply to operate
- 3000W – Support 3000W laser source
- Stable – Upgrade to dual protective lenses.

LASER SOURCE

Famous brands such as Raycus, Max, IPG, JPT, Reci etc.
The most important part of laser cleaning machine.
Working life is 100,000 hours.



WATER CHILLER

HanLi and S&A teyu brand can be selected.
Protect the laser source and prolong the life of the laser source.

Intelligent control , self-adaptive hot and cold dual temperature adjustment .
Separate cooling of cleaning head and laser source.
Stable laser output , fast and energy saving.

CLEANING SYSTEM

- Supported languages: English, Russian, German, French, Korean, Japanese, Spanish, Portuguese, Arabic, Polish, etc.
- Support Bluetooth wireless connection.
- Support USB system upgrade.

Neat Wiring

Universal Casters

Circuit breaker

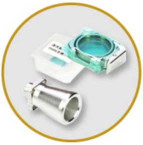
Air Tube

ACCESSORIES

LASER CLEANING MACHINE

Goggles

Protective lenses

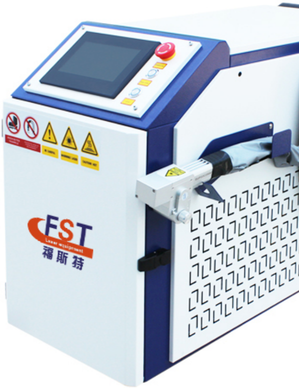


Cleaning components

Chiller accessories

Regulating valve

Copper nozzle

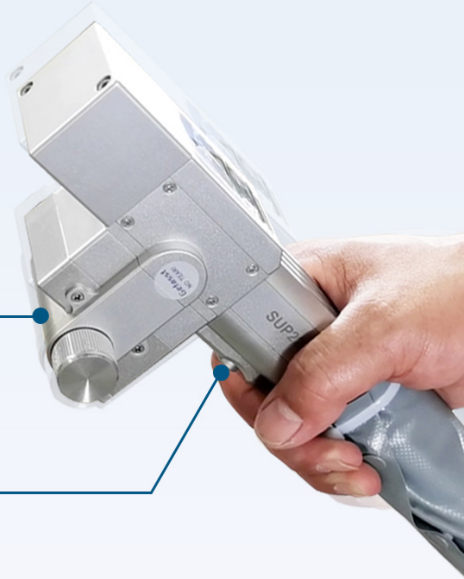


Continuous operation without damaging the lens

800mm focal length , the cleaning width can be 300mm in height

0 . 5KG light and convenient

Flexible cleaning on large and irreqular workpieces



Laser cleaning head

Red light positioning assistance ,
precise control , efficient cleaning

Power switch button

One-button cleaning , easy to operate

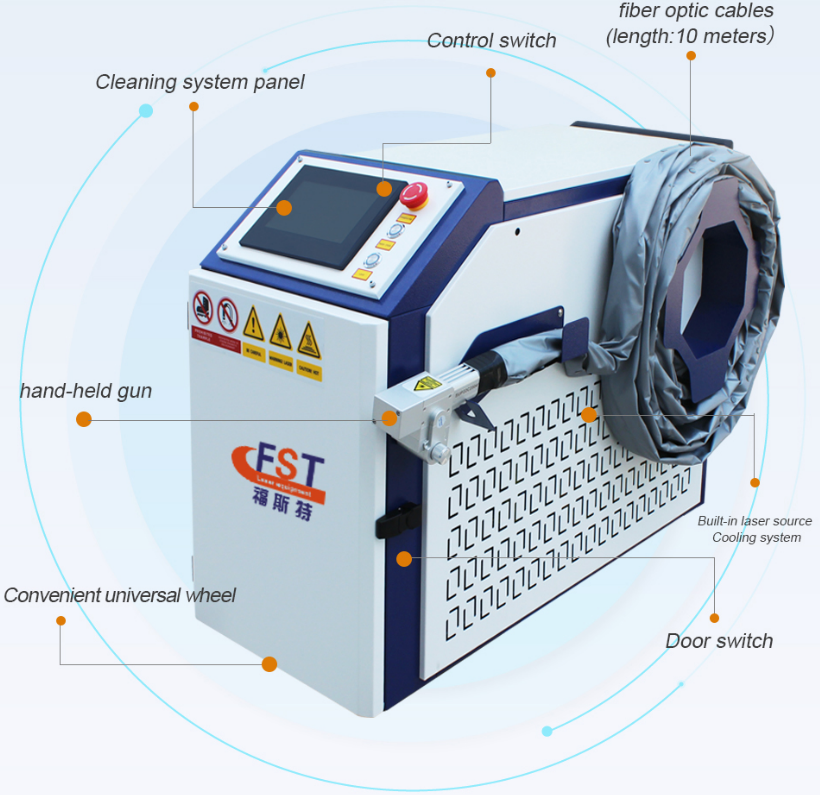
Cleaning range

RELFAR: *F600 Focusing lens : Standard configuration 200mm,Upgradeable to 300mm.*

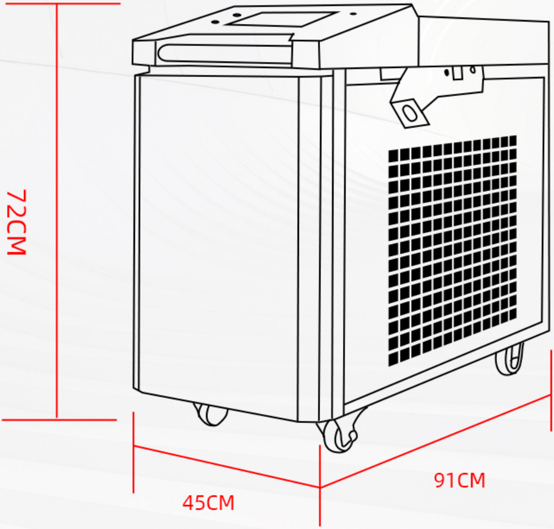
CHAOQIANG: *22C 400Focusing lens: 150mm, 600Focusing lens: 225mm, 800Focusing lens: 300mm.*

QILIN: *150mmx150mm*

••• STRUCTURE •••



PARAMETER

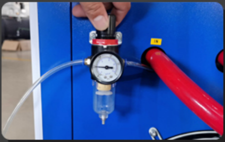


Laser power	1000W	1500W	2000W	3000W
Central Wavelength	1080nm			
Laser Running Mode	Continuous Mode			
Frequency	10-20KHz			
Fiber Cable Length	8m			
Cooling Type	Water Cooling			
Scanning Width	Max 300mm			
Voltage	Single phase 220V,50/60Hz		Three phaser 380V,50/60Hz	
Total Consumption	5.5KW	8KW	13.5KW	18KW
Rust（20um)	$20m^3/h$	$30m^3/h$	$40m^3/h$	$60m^3/h$
Corrosion（100um)	$5m^3/h$	$8m^3/h$	$10m^3/h$	$15m^3/h$
Paint（120um)	$8m^3/h$	$12m^3/h$	$16m^3/h$	$24m^3/h$

*For cleaning heavy paint and rust recommend 3000W and 2000W>1500W.
For cleaning molds,watches,instruments,wood paint,etc.recommend 200w/100w.no damage to material.

Operation process

01.Connect the power switch

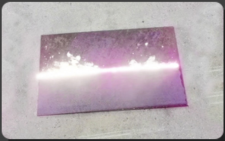


02.Adjusting air pressure

03.Turn on the emergency stop switch

04.Operating software

05.Cleaning



06.Cleaning effect

••• COMPARE •••

Laser cleaning VS Traditional cleaning

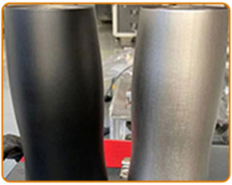
	Laser cleaning	chemical cleaning	Mechanical polishing	Dry ice cleaning	Ultrasonic cleaning
Cleaning method	Contactless	Chemical cleaning agent contact type	Mechanical sandpaper contact type	Dry ice non-contact	Cleaning agent contact type

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

··· CLEANING EFFECT ···

PRODUCT CLEANING EFFECT DISPLAY

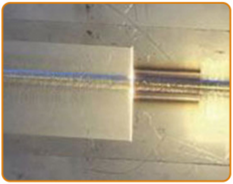
*Support
For
Customized Services*



Remove rust

Remove paint

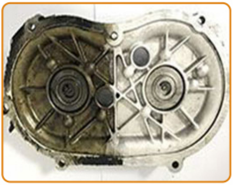
Remove oxide laver



Clean the weld seam

Mold cleaning

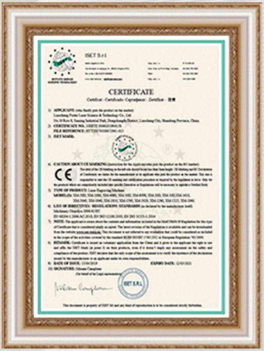
Stone cleaning



Remove oil

Tire cleaning

CERTIFICATE



ISET S.r.l

CERTIFICATE

1) APPLICANT:

2) CERTIFICATE NO.:

FILE REFERENCE:

3) ISET MARK:

4) CAUTION ABOUT CE MARKING

5) TYPE OF PRODUCT: Laser Engraving Machine

6) LIST OF DIRECTIVES / REGULATIONS / STANDARDS

7) NOTE:

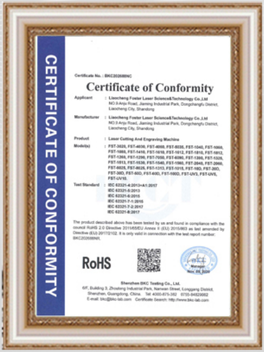
8) REMARK:

9) DATE OF ISSUE:

EXPIRY DATE:

10) SIGNATURE:

ISET S.R.L.



CERTIFICATE OF CONFORMITY

Certificate No. : BKC202688NC

Certificate of Conformity

Applicant : Liaocheng Foster Laser Science&Technology Co.,Ltd
NO.9 Anju Road, Jiaming Industrial Park, Dongchangfu District,
Liaocheng City, Shandong

Manufacturer : Liaocheng Foster Laser Science&Technology Co.,Ltd
NO.9 Anju Road, Jiaming Industrial Park, Dongchangfu District,
Liaocheng City, Shandong

Product : Laser Cutting And Engraving Machine

Model(s) : FST-3020, FST-4030, FST-4060, ...

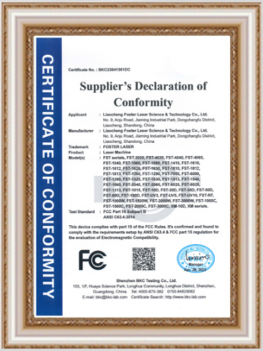
Test Standard : IEC 62321-4:2013+A1:2017

The product described above has been tested by us and found in compliance with the council RoHS 2.0 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102. It is only valid in connection with the test report number: BKC202688NR.

RoHS

Manager

Shenzhen BKC Testing Co., Ltd.
6/F, Building 3, Zhoufeng Industrial Park, Nanwan Street, Longgang District,
Shenzhen, Guangdong, China Tel: 4000-875-382 0755-84829062
E-mail: bkc@bkc-lab.com Certificate Search: http://www.bkc-lab.com



CERTIFICATE OF CONFORMITY

Certificate No. : BKC23041361DC

Supplier's Declaration of Conformity

Applicant : Liaocheng Foster Laser Science & Technology Co., Ltd.
No. 9, Anju Road, Jiaming Industrial Park, Dongchangfu District,
Liaocheng, Shandong, China

Manufacturer : Liaocheng Foster Laser Science & Technology Co., Ltd.
No. 9, Anju Road, Jiaming Industrial Park, Dongchangfu District,
Liaocheng, Shandong, China

Trademark : FOSTER LASER

Product : Laser Machine

Model(s) : FST serials, FST-3020, FST-4030, FST-4040, FST-4060, ... XM serials.

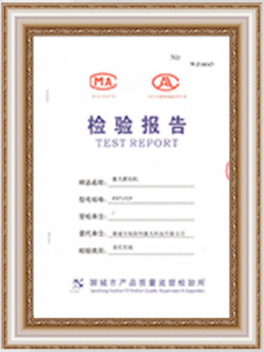
Test Standard : FCC Part 15 Subpart B
ANSI C63.4:2014

This device complies with part 15 of the FCC Rules. It's confirmed and found to comply with the requirements setup by ANSI C63.4 & FCC part 15 regulation for the evaluation of Electromagnetic Compatibility.

FC

Manager

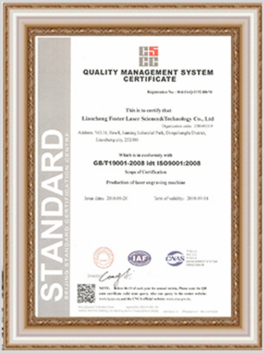
Shenzhen BKC Testing Co., Ltd.
103, 1/F, Huaya Science Park, Longhua Community, Longhua District, Shenzhen,
Guangdong, China Tel: 4000-875-382 0755-84829062
E-mail: bkc@bkc-lab.com Certificate Search: http://www.bkc-lab.com



检验报告

TEST REPORT

聊城市产品质量监督检验所



STANDARD

BEIJING STANDARD CERTIFICATION CENTRE

QUALITY MANAGEMENT SYSTEM CERTIFICATE

This is to certify that

Liaocheng Foster Laser Science&Technology Co., Ltd

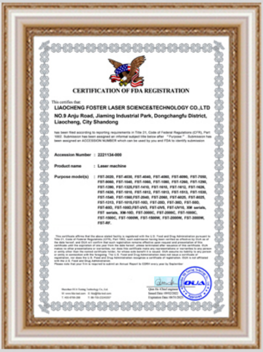
Address: NO.16, Jiaming Industrial Park, Dongchangfu District, Liaocheng city, 252000

Which is in conformity with

GB/T19001-2008 idt ISO9001:2008

Scope of Certification

Production of laser engraving machine



CERTIFICATION OF FDA REGISTRATION

This certifies that:

LIAOCHENG FOSTER LASER SCIENCE&TECHNOLOGY CO.,LTD

NO.9 Anju Road, Jiaming Industrial Park, Dongchangfu District, Liaocheng, City Shandong

has been filed according to reporting requirements in Title 21, Code of Federal Regulations (CFR), Part 1002. Submission has been assigned an informal subject title below after "Purpose". Submission has been assigned an ACCESSION NUMBER which can be used by you and FDA to identify submission

Accession Number : 2221134-000

Product name : Laser machine

Purpose model(s) : FST-3020, FST-4030, FST-4040, FST-4060, FST-6090, FST-7050, FST-9060, FST-1040, FST-1060, FST-1080, FST-1260, FST-1290, FST-1390, FST-1325,FST-1410, FST-1610, FST-1612, FST-1626, FST-1630, FST-1810, FST-1812, FST-1813, FST-1513, FST-1530, FST-1540, FST-1560,FST-2040, FST-2060, FST-6025, FST-8025, FST-1313, FST-1015,FST-10D, FST-20D, FST-30D, FST-50D, FST-60D, FST-100D,FST-UV3, FST-UV5, FST-UV10, XM serials, FST serials, XM-10D, FST-3000C, FST-2000C, FST-1000C, FST-1500C, FST-1000W, FST-1500W, FST-2000W, FST-3000W, FST-RF.

Please note that your firm is required to submit an Annual Report to CDRH every year by September

OUA

ABOUT LOGISTICS

CLEANING

PACKING

SEALING

SHIPPING

LOADING

FORKLIFT HANDLING

COMPANY INTRODUCTION

18 YEARS OF EXPERIENCE

FOSTER
LASER EQUIPMENT

Liaocheng Foster Laser Science & Technology Co , Ltd is a professional manufacturer of laser engravingmachine , laser cutting machine , laser marking machine for 18 years . Since 2004 , Foster Laser focused on thedevelopment and production of various types of laser engravingcutting / marking machine with the advancedmanagement , 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.

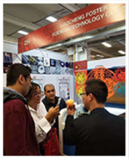
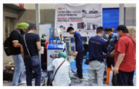
Foster Laser--rellable professional Laser equipment supplier.

Welcome to cooperate with us and achieve win-win !

FST
福 斯 特 激 光
福斯特激光

FST
福斯特
雷赛智能
Leadshine
福斯特激光 战略合作企业

EXHIBITION

聊城市福斯特激光科技有限公司
LIAOCHENG FOSTER LASER SCIENCE & TECHNOLOGY CO., LTD.
18.1M23
中国进出口商品交易会
CHINA IMPORT AND EXPORT FAIR
广交天下
Canton Fair Global Share
133
A0384
A0384
FST
福斯特
聊城市福斯特激光科技有限公司
Liaocheng Foster Laser Science & Technology Co., Ltd
FACTORY DIRECT SUPPLIER
LASER CUTTING MACHINE

FOSTER TEAM

FST 福斯特
福斯特激光—林州大峡谷团建拓展之旅

FST 福斯特
福斯特激光—林州大峡谷团建拓展之旅

••• FAQ •••

01. What is the speed of the laser cleaning machine?

Different laser types determine the cleaning speed of the cleaning machine, and the cleaning speed is within the range of $0.5m^2/h$-$15m^2/h$.

02. Is there any damage to the cleaning material?

Depends on what type you need, the pulse type has a finer cleaning effect, and the continuous type has a faster cleaning speed,Relative damage of material, pulse type is less than continuous type.

03. What are consumable parts?

Protective glass, etc, if you order, we will send it to you together with machine.

04. Which languages are supported? Is it easy to operate?

Support language：Chinese, English, Korean, Russian, Chinese Traditional, Japanese, German, French, Italian, Spanish, Portuguese, Turkish, Greek, Czech Slovak, Polish, Thai, Vietnamese, Romanian, etc, with clearand simple interface page Stable Various parameters can be set by yourself.

05. When I get the machine, how to operate the machine?

We have user manuals and video tutorials, and this machine is very easy to use. You will soon learn how to use it.

06. Is the laser cleaning machine safe? What are the hazards to human health?

The laser cleaning machine is generally safe when used and operated correctly following safety guidelines. However, it is essential to adhere to our instructions for implementing electrical and laser safety measures.