4 IN 1

FIBER LASER WELDING MACHINE

WELDING / CUTTING / CLEANING / WELD SEAM CLEANING

5 PRODUCT ADVANTAGES

- **5 in 1 with Super cost-effective**
- **Up to 3KW Laser**
- **0.7Kg Smallest size welding torch**
- **Faster welding speed （Welding 7.2 meters in 1 minute）**
- **Wire feeding device attachment**

* Different models have different parameters and weights.

SELLING POINT

Foster Laser

01 Famous Fiber Laser Source

Using well-known brand laser generators (Raycus / JPT / Reci / Max / IPG), a high photoelectric conversion rate ensures the laser power and makes the welding effect better. Foster laser can design different configurations to meet customer needs.

02 Industrial Water Chiller

The industrial water cooler ensures the heat dissipation of the core optical path components, allowing the welding machine to provide consistent welding quality and helping to improve the overall quality of the weld itself. It can also increase welding output by reducing the downtime of fiber laser welding machines. In addition, an excellent industrial water cooler can also prolong the service life of the laser welding machine.

03 4 in 1 Handheld Laser Head

The handheld laser head has a simple appearance, is small and light, and can be used by hand for a long time. The integrated design of the button and handle is simple and easy to use. It can realize four functions of welding, cleaning, weld seam cleaning and cutting through the intelligent controller according to different usage scenarios, truly realizing four in one functions in one machine.

04 Interactive Touch Screen Control System

Foster laser provides Relfar, Super chaoqiang, Qilin, Au3Tech operating system with high performance, intuitiveness, and ease of use. It can not only provide good weld results but also provide good cleaning and cutting results. The operating system supports Chinese, English, Korean, Russian, Vietnamese, and other languages.

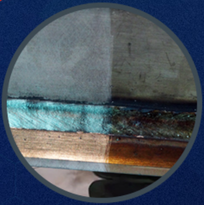
MULTI-FUNCTION

Foster Laser

WELDING

CLEANING

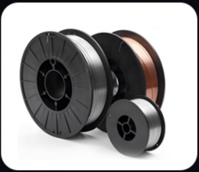
CUTTING

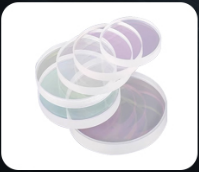


WELD SEAM CLEANING

ONE-STOP SHOPPING

Foster Laser





Welding Wire

Extra Torch Head

Consumable Lens

We supply spare parts consumables

ADVANTAGE

Foster Laser

Save 2-5 professional welders

Precision welding

Thin plate welding

Fast welding speed

Easy to learn no professional required

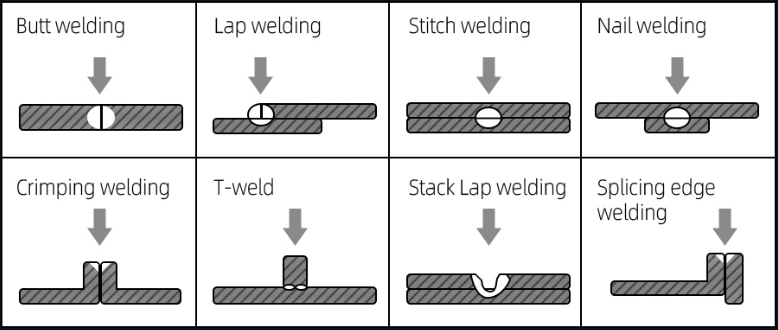
Almost no deformation

Welding of different metal materials

No sanding required

Welding for stainless steel, carbon steel, galvanized sheet, aluminum, copper ...

Suitable for welding complex seams and various devices



COMPARISON

Foster Laser

Laser welding machine		Traditional welding machine (Co2 arc welding,Argon arc welding)
More than 5 times	Speed	Slow
Less	Heat input	More
Less	Work piece deformation	More
eco-friendly	Environmental protection	Not eco-friendly
No professional required	Welder requirements	Must be professional
Easy	Subsequent processing	Difficulty

Secure	Secure	Unsafe
Better bonding strength	Welding quality	Average quality
Low cost	Welding cost	High-cost
Very easy	Operation	Difficulty

THE COST

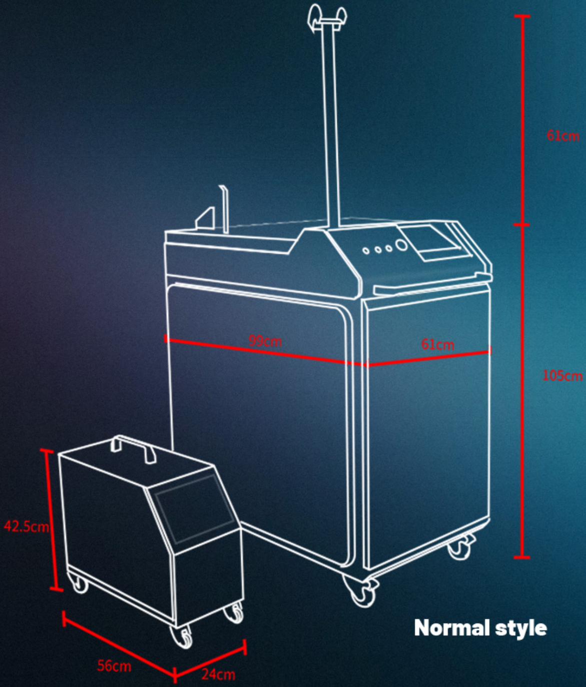
TRADITIONAL WELDING MACHINE VS **LASER WELDING MACHINE**

Class	Traditional welding machine	Laser welding machine
Number of workers	3 people	1 people
Worke's salarry	3,000 USD	1,000 USD
Number of polishing workers	1 people	0 people
Polishing worke's salarry	1,000 USD	0 USD
Total monthly	4,000 USD	1,000 USD
Annual total	48,000 USD	12,000 USD

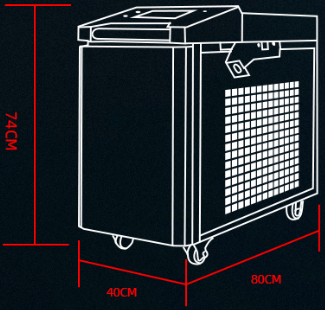
Using laser welding machine,
It can save two labor costs and 36,000 dollars per year.

DIMENSIONS

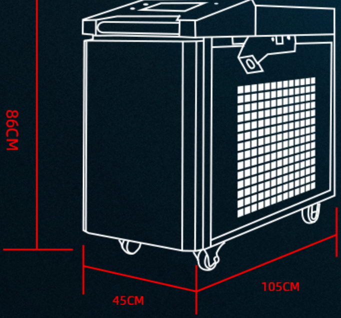
Foster Laser



Normal style



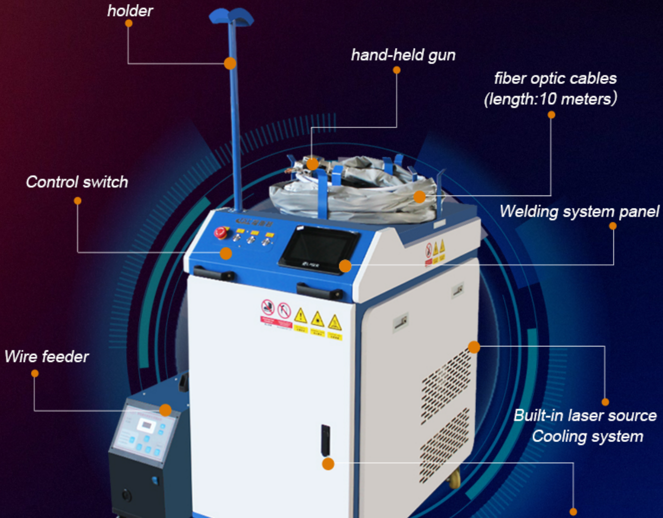
Mini style 1500W



Mini style 2000W

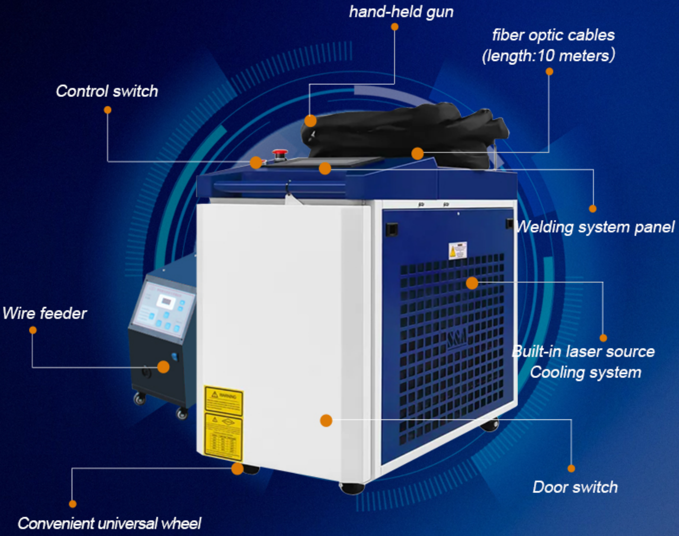
STRUCTURE

Foster Laser



Door switch
Convenient universal wheel

Normal style



Mini style

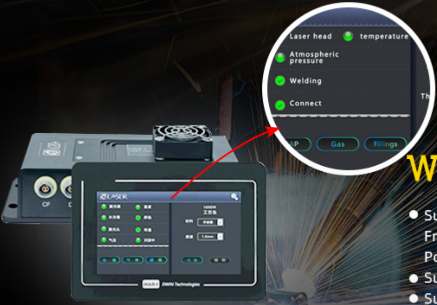
DETAILS

Foster Laser

LASER HEAD BRAND

Support Relfar, Super chaoqiang, Qilin, Au3Tech different brands of welding 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.



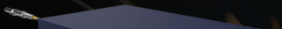
WELDİNG SYSTEM

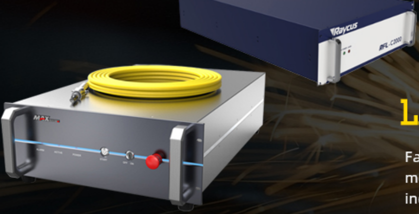
- Supported languages: English, Russian, German, French, Korean, Japanese, Spanish, Portuguese, Polish, etc
- Support Bluetooth wireless connection.
- Support USB system upgrade.

WATER CHİLLER

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

S&A
RMFL-2000
S&A





LASER SOURCE

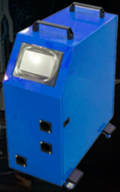
Famous brands such as Raycus, Max, IPG, JPT, etc. The most important part of laser welding machine. Working life is 100,000 hours.

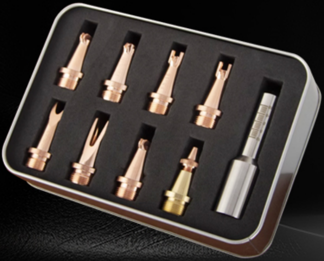
WİRE FEEDER

Support welding wire: 0.8, 1.0, 1.2, 1.6mm
Customizable: 2.0, 2.5mm
Default single welding wire feeder
Double welding wire feeder or triple welding wire feeder can be purchased to support wider welds.

Single wire

Double wire


Three wire

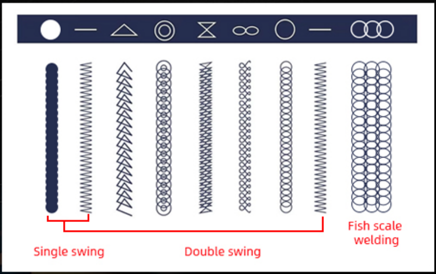


NOLZE

Different shapes of nozzles are suitable for different jobs. It needs to choose the right wire material when used with a wire feeder. When switching to cutting mode, the replacement of a special welding nozzle is very important for the welding effect.

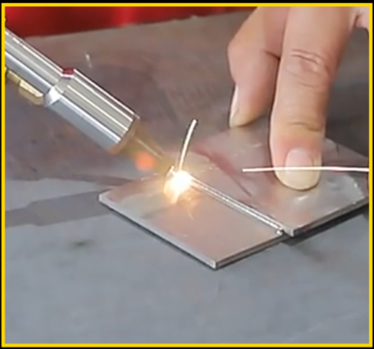
SINGLE SWING OR DOUBLE SWING WELDING

Multiple welding modes.
From precise spot welding to continuous welding.
choose the most suitable mode,
ensure you get the best results and
quality every time you laser weld.
Support fish scale welding.

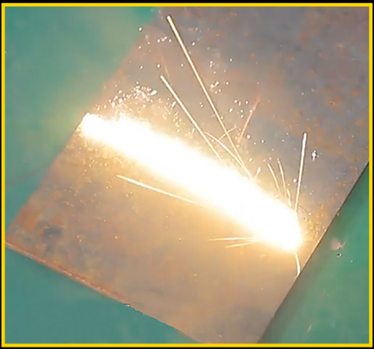


WIRE FEEDING TUBE AND U-SHAPED WHEEL

Laser welding of aluminum requires graphene wire feeding tube and U-shaped wheel: the wire feeding tube is resistant to high temperature, lubricated, and ensures stable transportation; The U-shaped wheel is compatible with aluminum wire, reducing drag and improving efficiency. The two work together to optimize welding and achieve precision and efficiency.



WELDING FUNCTION



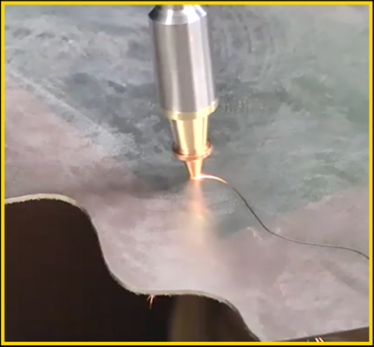
CLEANING FUNCTION

Fast welding speed and improves welding efficiency. Good welding effect, improve the yield rate.

Easy to operate, inexperienced people can quickly learn how to operate the equipment within 5 minutes, saving labor costs for factories

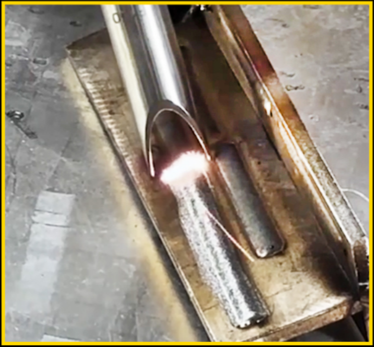
The cleaning function is available by replacing the front of the laser head and switching the control panel to cleaning mode.Laser
cleaning can quickly remove rust from metal surfaces, and factories that process carbon steel will often use this function.

Relfar: 0-80MM. **Qilin: 0-40MM.**
Super chaoqiang: 0-120MM.



CUTTING FUNCTION

Change the parameters in the control panel, and choose the nozzles for cutting, the machine can be switched to the cutting mode.It is able to cut thin metal sheets easily and quickly, speeding up factory production efficiency.



WELD SEAM CLEANING

The weld cleaning function can remove the contaminants or oxides on the weld surface, making the weld more clear and smooth. It is an efficient, environmentally friendly, accurate, widely applicable and adjustable cleaning technology, which can meet the needs of customers with higher requirements.

UPGRADABLE

Foster Laser

Professional Cleaning Scope

Relfar: 200,300MM. Super chaoqiang: 150,225,300MM. Qilin: 150*150MM.

Welding Head

Cleaning Head

ACCESSORIES

Foster Laser

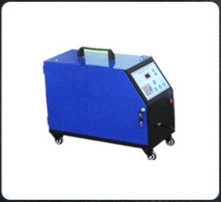
Tool protection

Goggles

Copper nozzle

Protective lens

Air tube



Wire feeder

Air pressure regulating valve

Chiller accessories

FST

Hand-held laser welding machine

USER MANUAL

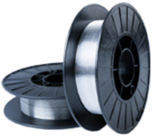
Instruction Manual

OPTIONAL ACCESSORIES

Dust free protective bag

Graphite wire feeding tube

Cleaning components



Welding wire

One year lens consumables

Double wire feeder

PARAMETERS

Foster Laser

Model	:	Fiber laser welding machine
Laser wavelength	:	1070nm
Laser power	:	1000W/1500W/2000W/3000W
Operating mode	:	Continuous/pulse
Length of fiber-optical	:	10m(standard)
Interface of fiber-optical	:	QBH
Module life	:	100000hrs
Power supply	:	220V/380V
Cooling method	:	Water Cooling
Laser Energy Stability	:	<2%
Air humidity	:	10-90%
Welding thickness	:	1000W Stainless steel carbon steel 0-2mm
Red light positioning	:	Support

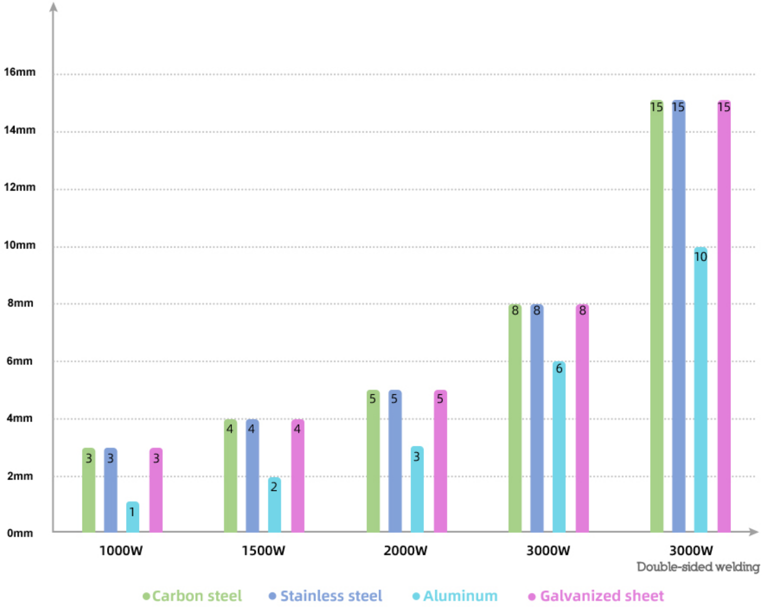
Recommended welding thickness

1000W	:	Stainless steel carbon steel 0-2mm Galvanized sheet aluminum 0-1.5mm

1500W	:	Stainless steel carbon steel 0-3mm Galvanized sheet aluminum 0-2mm
2000W	:	Stainless steel carbon steel 0-4mm Galvanized sheet aluminum 0-3mm
3000W	:	Stainless steel carbon steel 0-6mm Galvanized sheet aluminum 0-4mm

WELDING ABILITY

Foster Laser



ENERGY STORAGE WELDING

Foster Laser

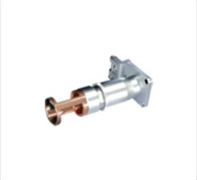
ENERGY STORAGE WELDING

The advantages of laser energy storage welding lie in its characteristics of high precision, high speed, low heat affected zone, efficient utilization of energy and strong adaptability. Especially in the welding field with high precision requirements and complex or weak materials, laser energy storage welding shows very strong advantages.

***Relfar and Qilin systems both support cutting, welding, cleaning, weld cleaning and energy storage welding**

Upgrade energy storage welding head

Welding head



Replace components

Energy storage welding

FOUR WIRE FEED

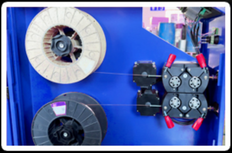
Foster Laser

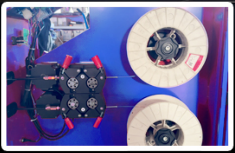
FOUR WIRE FEED

Four wire feed welding machine not only supports wider weld welding, but also has excellent high precision, high speed and a wide range of multi-material adaptability, which can meet the stringent requirements of modern manufacturing industry for welding quality and efficiency. Can easily deal with a variety of material welding needs.

***Support welding wire: 1.2-2.0mm**
Qinlin system support four wire feeding welding machine

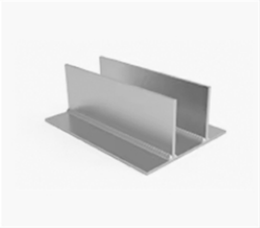
Four wire feed

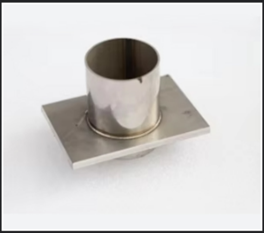




SAMPLE

Foster Laser





TUTORIALS

Foster Laser

Laser welding machine

Laser welding machine

FST 福斯特

FIBER LASER WELDING MACHINE

FOR WELDING DIFFERENT KINDS OF METAL MATERIALS

- STAINLESS STEEL
- ALUMINUM
- CARBON STEEL
- BRASS...

FIBER LASER WELDING MACHINE

OPERATION TUTORIAL

FST 福斯特

APPLICATIONS

Foster Laser

Electronics industry

Hardware industry

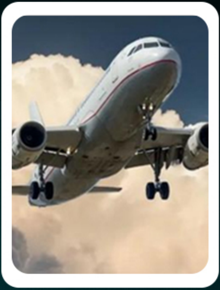
Machinery Parts

Electrical industry

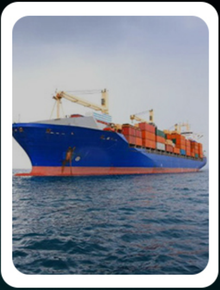
Food processing

Medical equipment

Automobile making



Aviation industry



Shipbuilding industry

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
用仁义道德头现企业可持续发展
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.

世界爱上中国智造
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

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Machine cleaning and Protective oil processing

Wrapping with protective film

Forklift moving goods

Transportation

Container Sealing

Container loading

MAERSK

msc

COSCO SHIPPING

CMA CGM

EVERGREEN

Hapag-Lloyd Flug

FST Laser equipment 福斯特

EXHIBITION

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

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FST
FOSTER LASER

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.