Name:

CVD ZnSe Laser Focus Lens Dia. 20mm FL 38.1mm / 50.8mm / 63.5mm / 76.2mm / 101.6mm

More Stable Focus Spot and Better Effect in Cutting and Engraving!

CVD ZnSe Laser Focus Lens Dia. 19.05mm FL 38.1mm / 50.8mm / 63.5mm / 76.2mm / 101.6mm

More Stable Focus Spot and Better Effect in Cutting and Engraving!

Model: CS-FL-BL20

CS-FL-BL19

Overview	Specifications	Packing list	Warranty

Feature

Diameter: 0.79" (20mm) / 0.75" (19.05mm)

Focal Length: 1.5" (38.1mm) / 2" (50.8mm) / 2.5" (63.5mm) / 3" (76.2mm) / 4" (101.6mm)

Material: CVD ZnSe

This would be a great lens for a CO2 engraver or laser cutter, to focus the beam into a tight spot.

We adopt the material CVD Zinc Selenide to produce which is same to the top player of the industry, American II-VI.

Advantage

- Adopted CVD Zinc Selenide imported from USA which can go with high power density;
- The thin-film coating is strong against peeling off and durable for wiping. It reduces or eliminates stray light of optical system, and increased the light transmittance of the parts;
- The transmittance of working waveband in co2 laser industry reaches 99.8%;
- The lens consist in many advantages such as precise focus, thin-film coating anti wiping, higher luminous flux, etc. for which materially improves your work efficiency.

Benefit

- Stable focus spot, better effect in cutting and engraving, bearable for high power density, and strong thin - film coating against peeling off and durable for wiping;
- Double-side coated anti-reflection coating, the light transmission of the parts increased by cylindrical surface polishing, reduction or elimination on stray light of the optical system;
- The stability of focus position strengthened, the cutting & engraving speed of some applications improved, and the ability for reflected light enhanced;
- More bearable for wiping, longer life span as well as better process to radioactive coating.

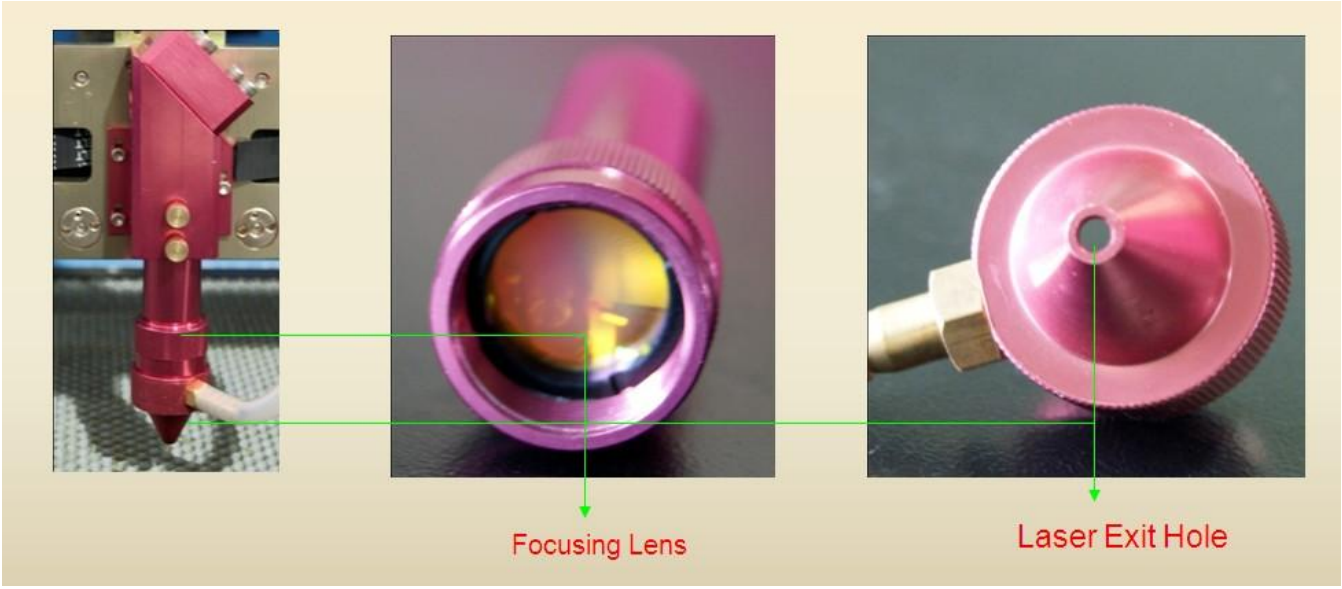
Used for

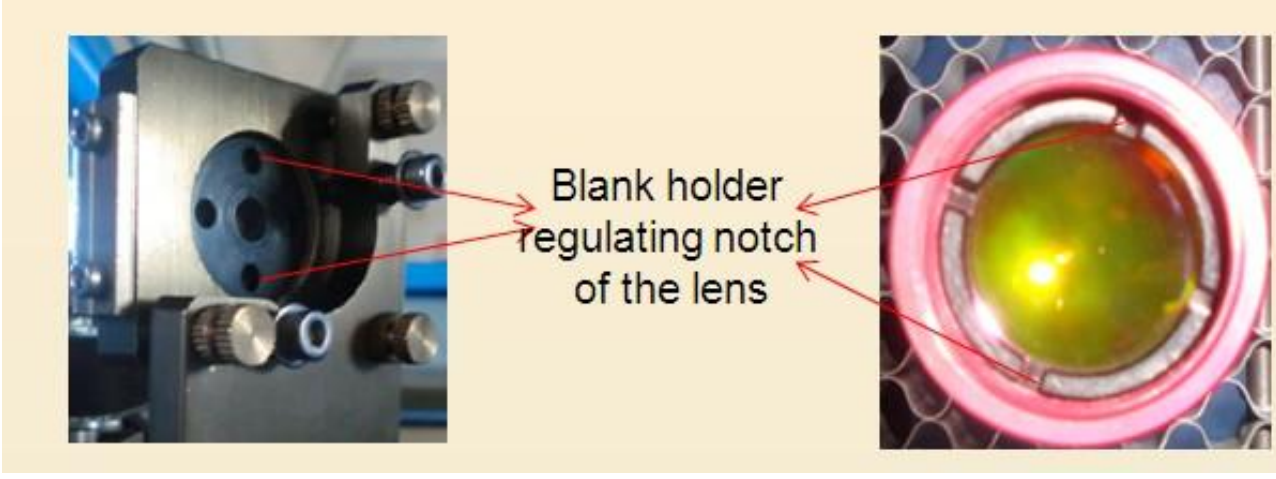
Widely used in the following brands CO2 laser engraving & cutting machines:

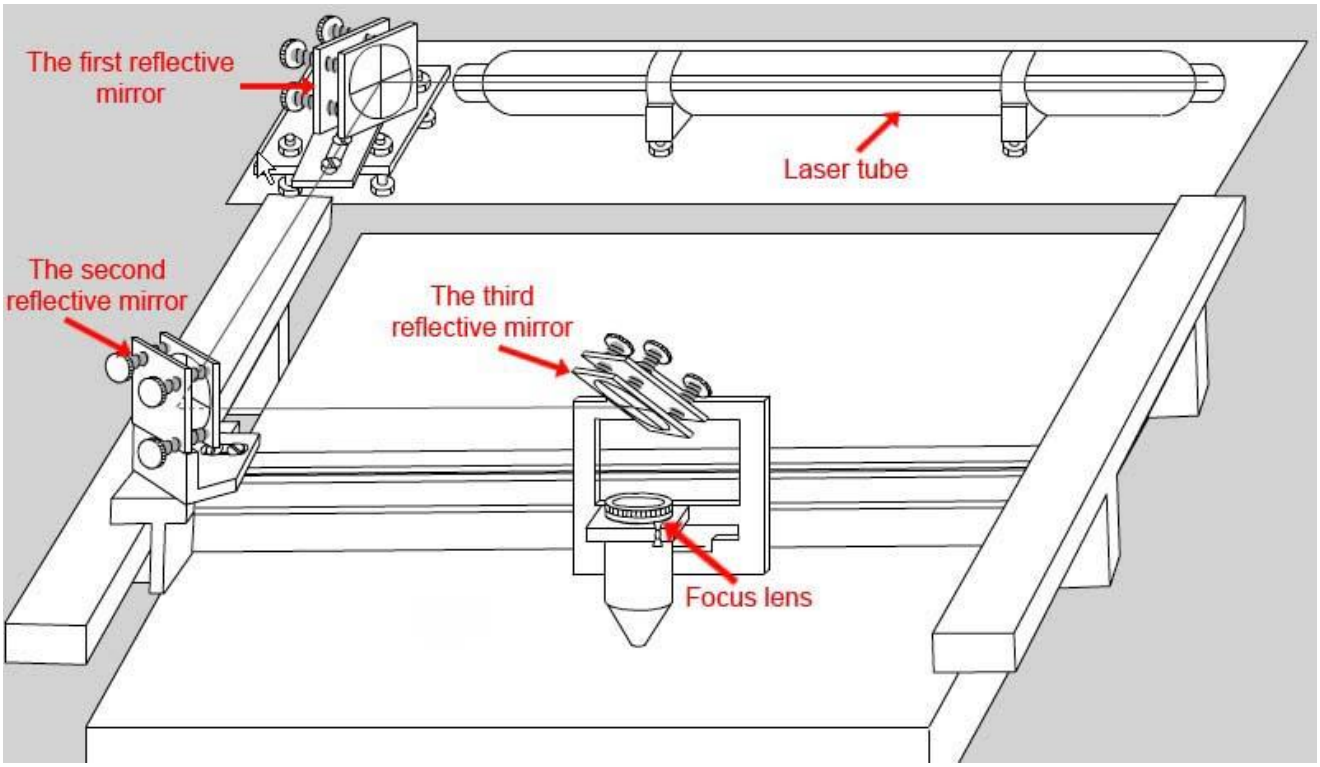
Redsail, Kaitian, Yueming, Goldenlaser, Senfeng, Shenhui, York Laser, Hanma Laser, Ruijie, and Bodor etc.

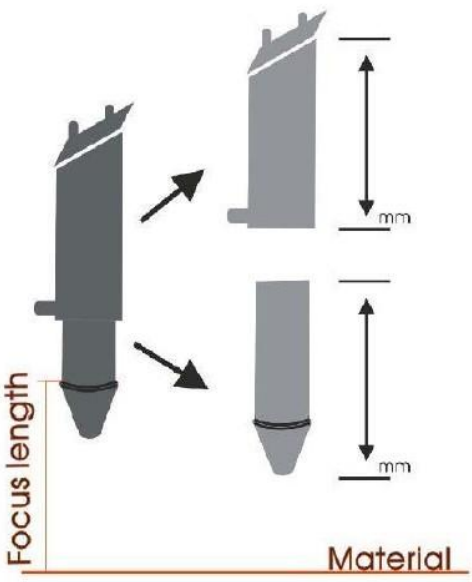
Details

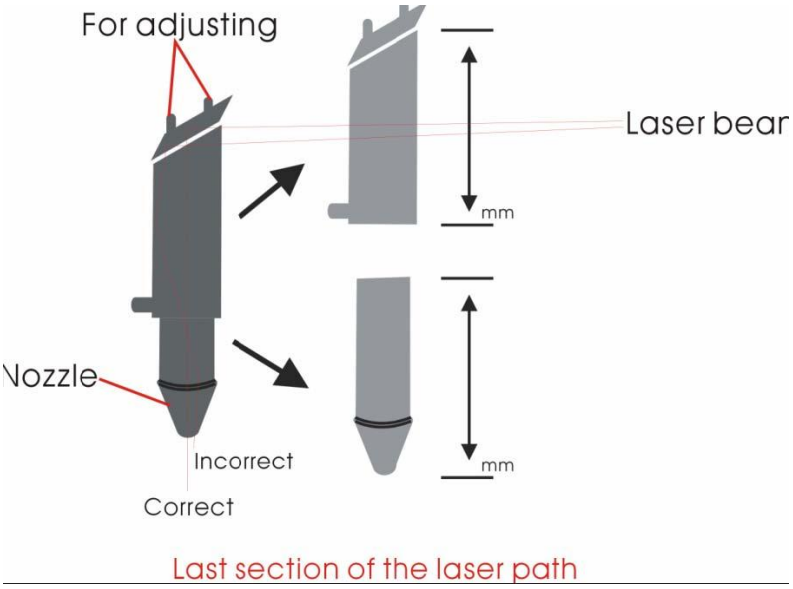
We adopt the material CVD Zinc Selenide to produce which is same to the top player of the industry, American II-VI.
Similarity nearly 99%
While its price is 50% less than that of American II-VI..
The excellent lens material directly results the stability of laser system. The lens we produce is not a fake, it consists in many advantages such as precise focus, thin-film coating anti wiping, higher luminous flux, etc. for which materially improves your work efficiency.


Focusing Lens
Laser Exit Hole


Blank holder
regulating notch
of the lens


The first reflective mirror
Laser tube
The second reflective mirror
The third reflective mirror
Focus lens


mm
mm
Focus length
Material

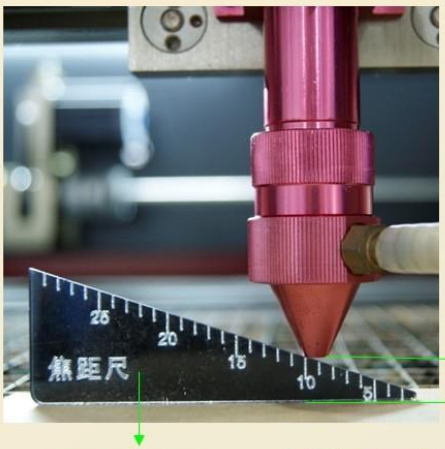

For adjusting
Laser bear
mm
Nozzle
Incorrect
Correct
mm
Last section of the laser path

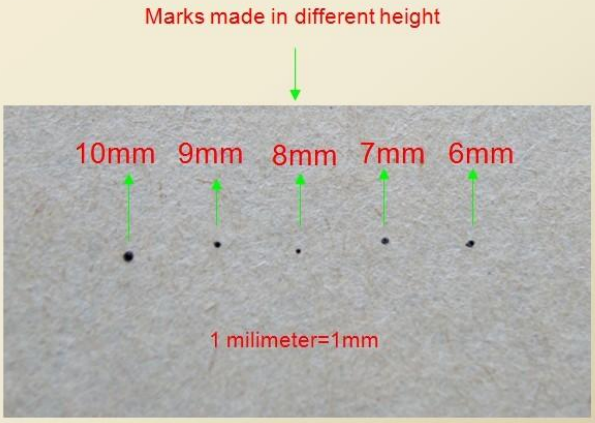
Usage

How to adjust the focal length

Put a piece of harder paper under the laser head, adjust the height between the laser head and the paper by the focal length ruler, and then press the 'Laser' button on the panel to make marks. Compare the sizes of the marks made in different height and find the minimum sized mark, and then the appropriate height can be determined as the focal length of the machine.

The following pictures shows an example. You may see that the mark made in the height of 8mm is the minimal. Then we know the focal length is 8mm. In the future, materials with different thickness should be cut in the height of 8mm.





Remove and wash the focusing lens

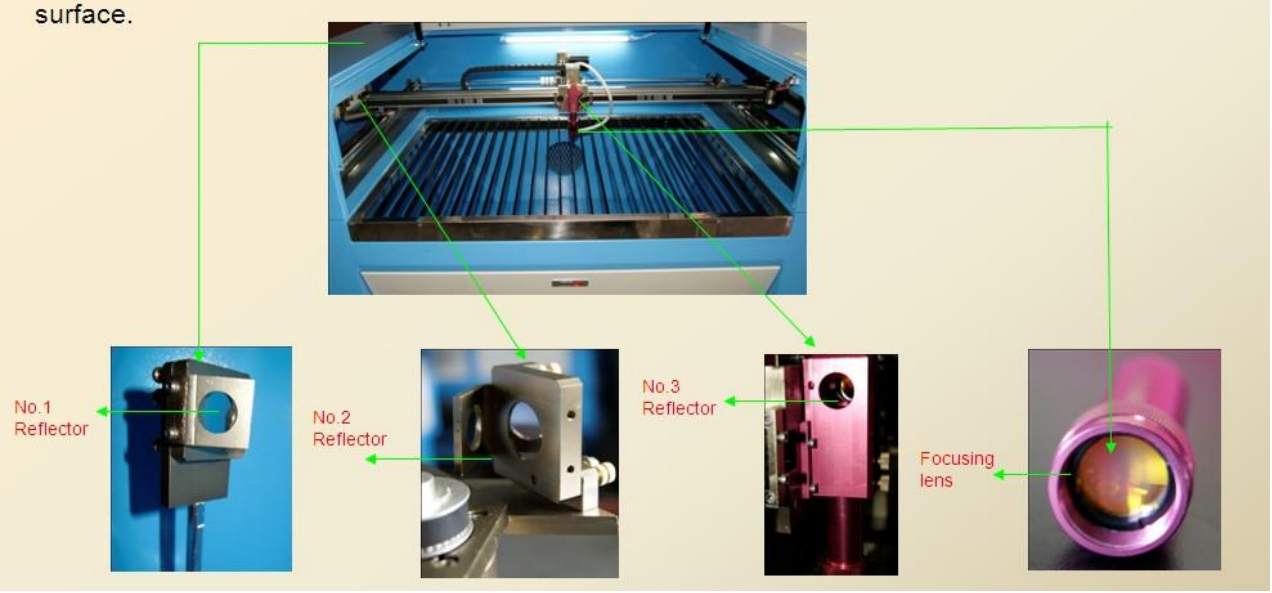
Put the tools like circlip pliers or steel rule on the notch of the compression nut, and turn the circlip pliers or steel rule to remove the compression nut and the focusing lens.

Assembly of the focusing lens

Assemble the focusing lens into the lens cone by making the right side (or the convex side) upward. Assemble the compression nut and fix with the circlip pliers or steel rule.

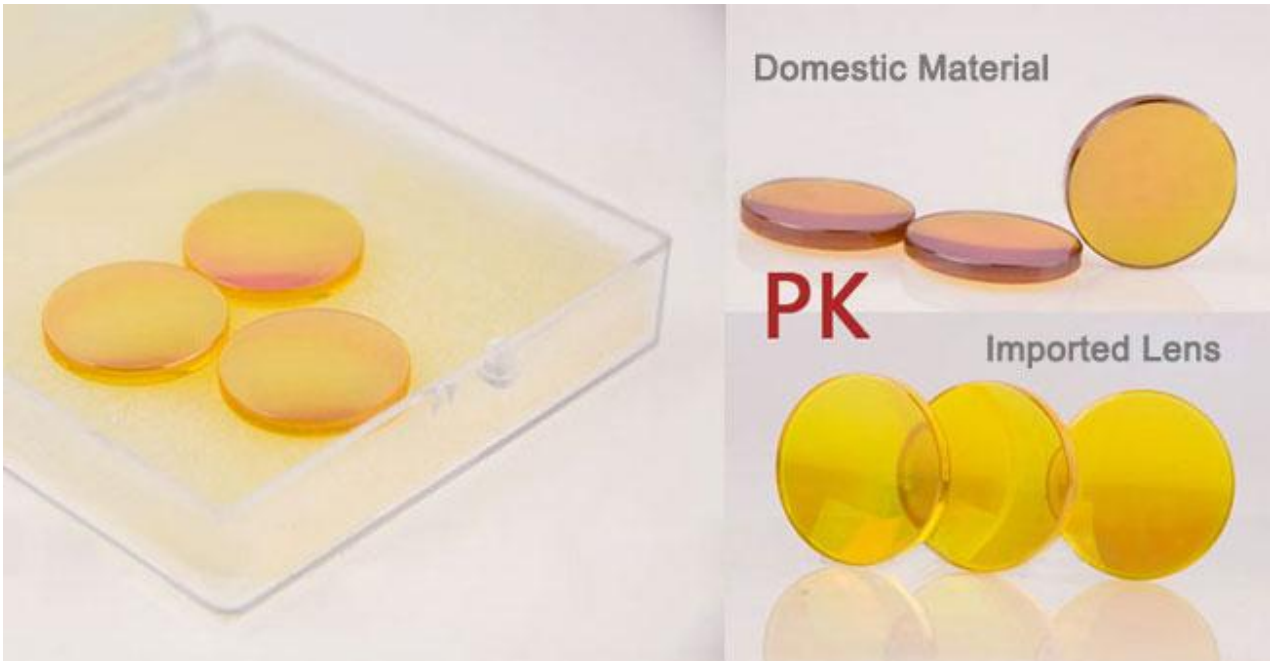
Maintenance for the Lens

Take a piece of clean cotton swab, dip it in the alcohol solution, and softly wipe the 3 pieces of reflectors and 1 piece of focusing lens. It should use industrial alcohol, or ethanol, instead of medical alcohol because it contains too much water. (Do not wipe the lens too hard, otherwise the layer of membrane on the surface of the lens will be damaged and thus influence the reflecting effect.) As for reflector, the reflecting surface is necessary to be cleaned; as for focusing lens, both sides should be cleaned. After cleaning, use a piece of clean cotton swab to wipe out the remaining alcohol on the surface.



Comparison

Common Material VS Imported Material



Common Lens: Double layers of sponge packing box with external shockproof package to make sure safe transportation.
Our lens: adopt the imported lens gives more transparency, decent colors and higher transmittance (reflectivity) of light.

Appearance: The good quality lens gives light color, more transparent for which significantly reduces light consumption so that the lens performs higher light transmittance and reflectivity.

Material: The good coating film is pasted very even and smooth, and the coating film and lens are finely integrated which increases light transmittance and wearability. The poor quality coating film gives bad light transmittance and is more vulnerable from wiping which can cause the film off to be discarded.

Tips:

The imported zinc selenides are available from Russia, German, France, USA, etc. among which the one from USA appears best in quality and, generally, the brand II-VI represents on market. All the material we use is CVD zinc selenides imported from USA and it will materially increase working efficiency.

The harm of poor quality lens: rough focus which makes the user unable to cut product efficiently during working such as failures of cutting through or off, slow cutting, etc. which influence work efficiency as well as short life span, easy crack and film peeled off.

Overview	Specifications	Packing list	Warranty

CS-FL-BL20

Part No.	Material	Diameter	EFL	E.T.	Coating
CS-FL-BL203812	CVD ZnSe	0.79" (20mm)	1.5" (38.1mm)	2.5mm	AR @ 10.6um
CS-FL-BL205082	CVD ZnSe	0.79" (20mm)	2" (50.8mm)	2.5mm	AR @ 10.6um
CS-FL-BL206352	CVD ZnSe	0.79" (20mm)	2.5" (63.5mm)	2.5mm	AR @ 10.6um
CS-FL-BL207622	CVD ZnSe	0.79" (20mm)	3" (76.2mm)	2.5mm	AR @ 10.6um
CS-FL-BL201012	CVD ZnSe	0.79" (20mm)	4" (101.6mm)	2.5mm	AR @ 10.6um

CS-FL-BL19

Part No.	Material	Diameter	EFL	E.T.	Coating
CS-FL-BL193812	CVD ZnSe	0.75" (19.05mm)	1.5" (38.1mm)	2.5mm	AR @ 10.6um
CS-FL-BL195082	CVD ZnSe	0.75" (19.05mm)	2" (50.8mm)	2.5mm	AR @ 10.6um
CS-FL-BL196352	CVD ZnSe	0.75" (19.05mm)	2.5" (63.5mm)	2.5mm	AR @ 10.6um
CS-FL-BL197622	CVD ZnSe	0.75" (19.05mm)	3" (76.2mm)	2.5mm	AR @ 10.6um
CS-FL-BL191012	CVD ZnSe	0.75" (19.05mm)	4" (101.6mm)	2.5mm	AR @ 10.6um

Overview	Specifications	Packing list	Warranty

Terms & Condition of Purchase: After we receive PO from customer with stamp, we give PI for customer.

Lead Time: After receiving customer's deposit, within 1 - 3 days.

Wooden Box: There is total one glass box.

Product Dimension	Diameter: 0.8" (20mm) / 0.75" (19.05mm)
Machine Weight	0.02kg / pc
Package	Glass box
Packing Size	55mm x 55mm x 10mm (2.2" x 2.2" x 0.4")
Gross Weight	0.05kg

Packing List: One pc of lens

Overview	Specifications	Packing list	Warranty

Comprehensive guarantee for one year except the wearing parts

24 - hour technical support by email or calling

User - friendly English manual for machine using and maintaining

Satisfaction Guarantee

For the items other than consumable products sold via www.Sign-in-China.com, we provide 12 months warranty after shipment. All the extra parts for equipment can be purchased from www.Sign-in-China.com. Further, for our VIP customers, the period of warranty shall be extended to 18 months.

We offer 14 days 100% satisfaction guarantee on all our machines. If you are not satisfied after receiving an item, Sign-in-China.com promises that, within 14 days after actual delivery of such an item, you are allowed to return the item to us and get complete refund, provided the returned item does not affect its subsequent re - selling and you also undertake the charge of returning delivery.

More information, please look at the document of Training & Warranty & Service Policies.