



ST-FC3015L heavy duty fiber laser cutting machine

Main configuration

ST-FC3015L fiber laser cutting machine

1. Cutting area:1500*3000mm
2. Machine body milling by 5 axis gantry milling center
3. Swiss Raytool laser head
4. Raycus laser source
5. Taiwan APEX rack and pinion transmission
6. Taiwan Hiwin 30mm square rail with flange (original)
7. Japan Yaskawa servo motor 3*850W+400W
8. France MOTOVARIO reducer
9. Japan SMC pneumatic components
10. France SCHNEIDER electric components
11. Automatic lubricating system
12. CA double control water chiller
13. Cypcut control system
14. Power requirement:3 Phase AC 380V 50Hz

Delivery time	20 working days	Payment term	30% in advance,70% before shipping
Transport way	20ft container	Loading port	Qingdao,China
Warranty	3 years warranty for machine parts without consumable parts		



Machine Advantages

1. ST-FC3015L is our heavy duty fiber laser cutting machine, it can choose different laser source, such as Chinese Raycus brand or Germany brand IPG, the laser power can be 500W, 750W, 1KW, 1.5KW. The power can be improved based on the laser source technology.



2. High rigidity machine bed Segmented welding, adopts exclusive annealing processing with high-temperature NC electric resistance furnace, ensure long-time stable working of the machine.



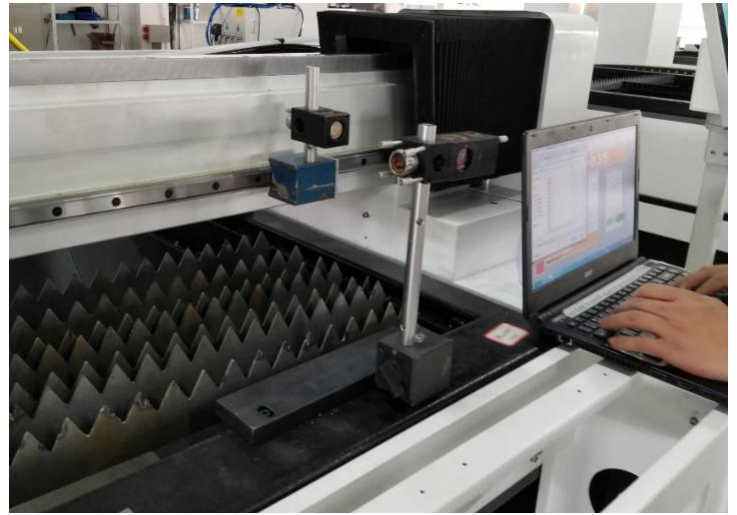
3. All the guiding rails and screw holes are milled by our professional 5 axis gantry milling machine to keep the levelness. This quality engineering and workmanship result in Smooth precision cutting.



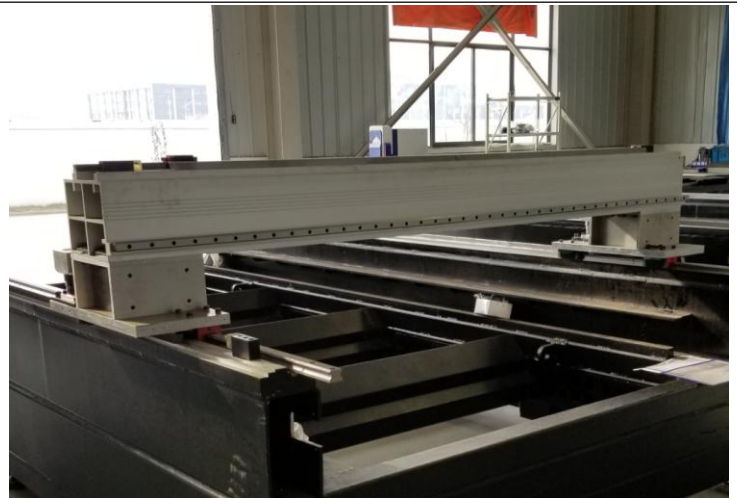
4. The oil paint baking replace of painting, guarantee the aesthetic and durable.



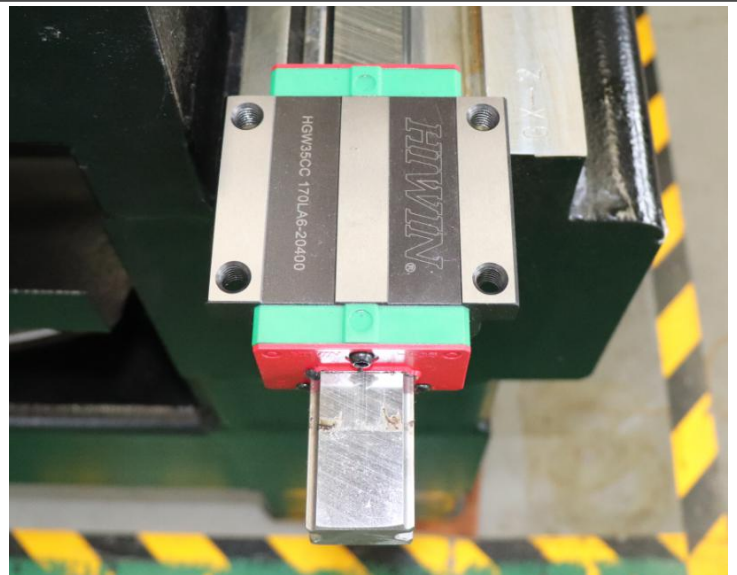
5. Machine rack and rails installed based on the dial indicator, table frame based on the marble gradienter. This quality engineering and workmanship result in smooth precision cutting.



6. The gantry we adopted are new design aircraft-grade aluminum casting, replace of the welded steel gantry, more light-footed to make the whole machine working very fast.



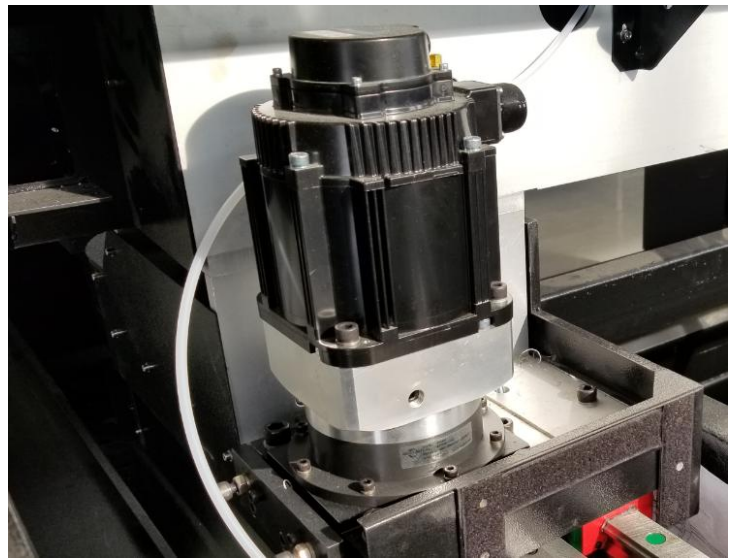
7. Each parts we adopted are original, such as Taiwan Hiwin rails with flange, high accuracy, Zero-distance to avoid the dust accumulation.



8. New machine body whole frame with smoke extraction, reduce the smoke and chippings to harm the cutting head and lens.



9. Japan Yaskawa servo motor with France MOTOVARIO reducer, low noise, high torque, high reducing ratio. Better than other brand in high power cutting.



10. Taiwan APEX double driver rack gear. The use of helical precision rack pinion assures smooth precision cutting at high speed.



11. Independent electronic control cabinet

It can avoid the electromagnetic radiation affect the mechanical parts running.



Applicable materials and industry

ST-FC3015L fiber laser cutting machine is widely used in electrical power, automobile manufacturing, machinery and equipment, electrical equipment, hotel kitchen equipment, elevator equipment, advertising signs, car decoration, sheet metal production, lighting hardware, display equipment, precision components, metal products and other industries.

Specialized fast speed cutting of a variety of metal plates, pipes (add pipe cutting device), mainly used in stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum, steel, various alloy plate, rare metal and other materials.

Features

1. Low cost and the power consumption, Customer can cut all kinds of metal sheets by blowing gas;
2. High-performance.Fiber laser with stable performance and the lifespan is over 100,000 hours;
3. High speed and efficiency, the speed of cutting metal sheets close to tens of meters;
4. The laser maintenance free;
5. The cutting edge looks perfect and the appearance is smooth and beautiful;
6. Imported the transmission mechanism and servo motor, and high cutting accuracy;
7. Dedicated software enables graphic or text to be instantly designed or processed. Flexible and easy operation.

Cutting capacity for reference

Material	1000W fine cutting thickness	1500W fine cutting thickness
Carbon steel	≤12mm	≤15mm
Stainless steel	≤6mm	≤8mm
Aluminum	≤3mm	≤4mm
Non-ferrous metals	≤3mm	≤4mm

Configurations

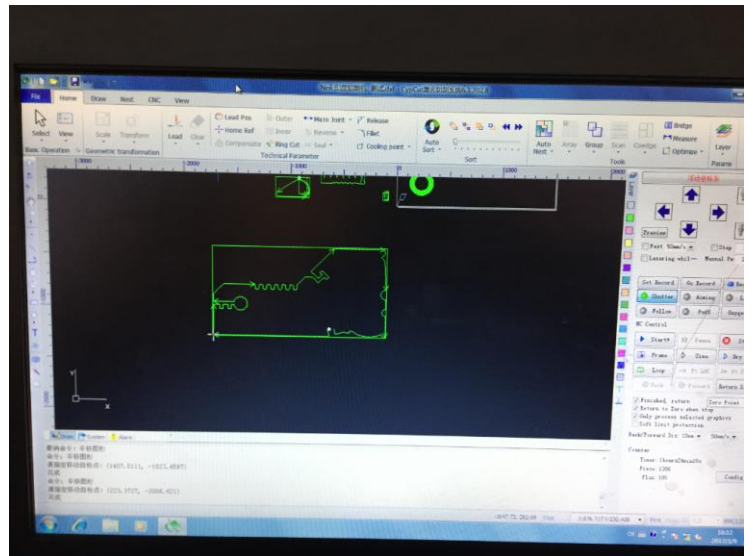
Swiss Raytool brand laser head

To ensure the constant same distance between the head and cutting material.



Cypcut control system and CypCut software

The software can read .DXF, .PLT, .AI, .LXD format and NC code, Gerber file directly.
It can joint with any CAD program software



Raycus laser source

with long lifespan up to 150000 hours and high cutting speed.



Double control water chiller

To cool the laser source and cutting head in long time use.



High-definition pad display with remote controller

The controller can remote control the laser working within 10m.



Parameters

Website: www.stylecnc.com
Email: info@stylecnc.com

Tel: +86-531-83161518
Mobile: +86-18766148818

Machine model	ST-FC3015L
Laser power	1KW
Working size	1500*3000mm
Machine weight	3500kg
Max. running speed	80m/min
Max. acceleration	1G
Repeated positioning accuracy	0.02mm
Transmission	precision dual driver rack gear
Specified voltage and frequency	380v/50Hz/60HZ/60A

Warranty and after sale service

1. 3 years warranty for the fiber laser source and other parts without consumable parts.
2. Life-long maintenance.
3. Except the damage artificially, we are responsible for offering the fittings free of charge during warranty period.
4. After the warranty period expired, the buyer only need to pay the actual maintenance cost.
5. Manuals along with machine, After sale department with English speakers support customer 24 hours every day.
6. They are available for going to customer's country for training and installation.
7. Certificate support: CE, FDA, SGS

The cost of consumption(1KW)

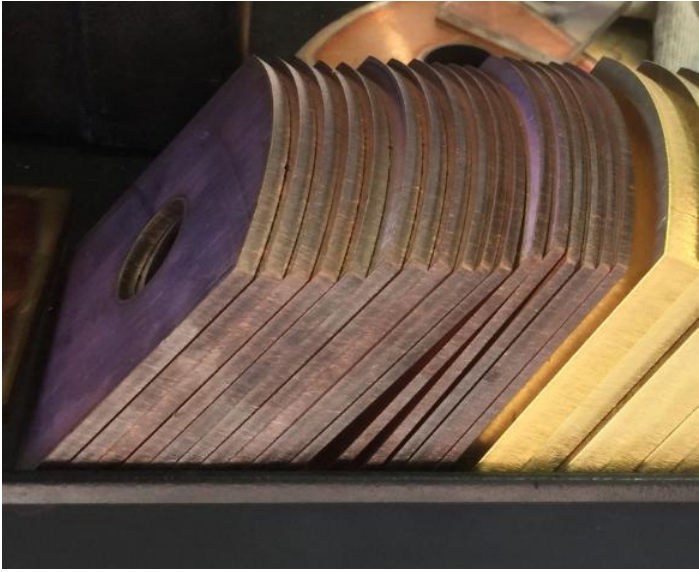
Item		Air cutting	Oxygen cutting(O2)	Nitrogen cutting(N2)
Electronic consumption	Laser source	4KW	4KW	4KW
	Water chiller	2.8KW	2.8KW	2.8KW
	Machine	5.4KW	5.4KW	5.4KW
	Dust exhausting	0.75KW	0.75KW	0.75KW
Consumable parts		2RMB/h	2RMB/h	2RMB/h
Air consumption		$15 \times 85\% = 12.75KW$	20L/h	40L/h
Total power		15.2KW	15.2KW	15.2KW
Average power consumption(80%)		$15.2 \times 80\% = 12.16KW$	$15.2 \times 80\% = 12.16KW$	$15.2 \times 80\% = 12.16KW$

Consumable parts

Name	Unit price	Lifespan(hours)	Suggest
Protect lens	25\$	600h	5pcs
Copper nozzle	30\$	600h	3-10pcs
Ceramic rings	20\$	720h	5pcs
Focus lens	300\$	2400h	2pcs

Collimating Lens	280\$	2400h	1pcs
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Samples



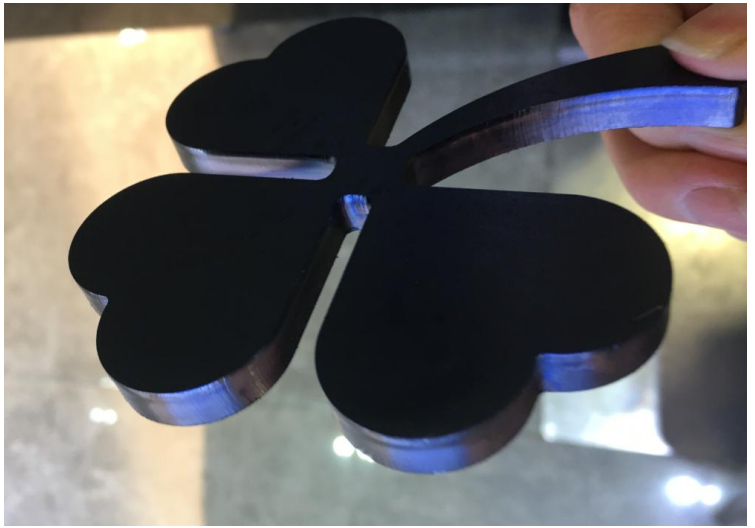
Brass cutting



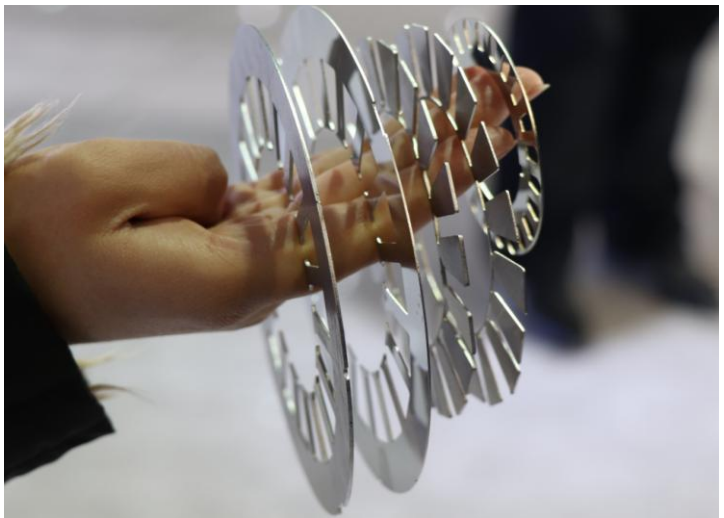
Copper cutting



Aluminum cutting



Carbon steel cutting



Stainless steel cutting

Package

1. Anti-collision package edge: All parts of the machine are covered with some soft materials, mainly the use of pearl wool.
2. Fumigation wooden box: Our wooden box is fumigated, do not need to check the wood, saving the transport time.
3. Whole film packaging machine: Avoid all damage that may occur during delivery. Then we will cover the plastic package tightly to ensure that the soft material is covered intact, also avoiding water and rust.
4. The outermost is a wooden box with a fixed template.



Quality Control

