



SKY TECH SOLUTIONS



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# FIBER LASER METAL CUTTING MACHINE

## ST-1530A





**SKY TECH SOLUTIONS**

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## 1: About Sky Tech Laser

### Introduction of Sky tech

Established in 2010, SKY TECH SOLUTIONS PVT. LTD. is a Hi-Tech enterprise which manufactures laser machines and focuses on Research & Development plus selling of industrial laser products. Located in Jinan Hi-tech Zone, SKY Laser has developed steadily and benefits by the diverse laser and Hi-tech resource in China.

SKY TECH has established modern factories which covers over 55,000sqm, and established service agent in India, South Africa and Russia. SKY TECH products have been exported to more than 90 different countries and regions.





# SKY TECH SOLUTIONS

## Certificates

### >> CERTIFICATION



SKY TECH laser has been verified as China High Tech Enterprise and with ISO certificate, and been identified as Golden supplier and Audited supplier by different certification authorities. SKY TECH laser products have obtained CE, FDA, SGS certificates and etc.. Machines are highly approved and recommended by different customers all over the world.



## 2. Configuration of the machine

Model	ST-1530A
Lathe Bed	Heavy duty welding lathe bed
Gantry	Reinforced honeycomb aviation Aluminum
Fiber Laser source	2000W IPG
Laser Head	Swiss Auto Focus Raytools laser head
Guide rail	Taiwan HIWIN
Rack & pinion	Taiwan YYC
Speed Reducer	France Motoreducer
Servo motor	Japan Fuji
Water chiller	China HUAKU
Control System	Shanghai Cypcut(FSCUT 2000)
Height adjust device	Shanghai Cypcut(BCS 100)
Proportional valve	Japan SMC
Auxiliary Parts	Exhaust Fan
Computer	YES
Exchange Table	YES
Auto Lubrication	YES
Remote Control	YES
Dust Cover	YES



### Laser source – Raycus

1. Direct control of all the fiber laser functions; Synchronized control of the laser source;
2. High speed perforation
3. Cutting data library;
4. More than 100,000 hours work-life of pumped diode,almost free maintenance.



### Servo Motors and drivers --Fuji

The Fuji servo motors enjoy fast dynamic response and performances stably. It has high inertia and large torque, output with strong power.



### Laser Cutting Head -- Raytools(auto focus)

1. Collimating lens and focal lens adopt compound lens, to obtain the optimal optical quality and the cutting effect.
2. Completely sealed internal structure of laser head can avoid optical part polluted by dust.



### Planetary Gearbox --SHIMPO

1. Excellent Performances, high torsional stiffness,low noise, low backlash.
2. Satellite gears are double-supported on hardened and ground shafts with full-complement needle bearings increasing torsional stiffness.



### Guide Rail – HIWIN

1. Wear resisting
2. Higher speed and Stable performance
3. Noise volume is lower
4. High accuracy and long service life



### Rack & Pinion System -- YYC

Ensure the transmission high precision, high speed and high stable.



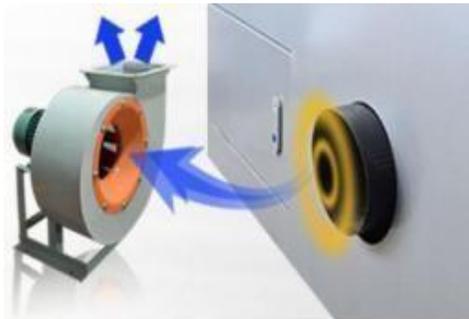
### Water Cooling System

1. Dual cooling function: laser source cooling; laser head cooling;
2. Multiple protection functions, passive alarm terminals and remote control terminals, easy to achieve centralized CNC control and monitoring.



### Automatic lubrication:

The lubrication time period can be set in the software, to ensure the accuracy of transmission system, operator just need to set up the time break in the software and keep the oil container full.



### Smoke Exhausting System

Remove the smoke and dust caused from metal processing



### Electric Components - France Schneider

Circuit protection against short-circuit currents, overload currents, breaking and industrial disconnection as per standards IEC/EN 60947-2.



### Proportional Valve - Japan SMC

1. Stepless control of air pressure proportional to an electrical signal.
2. Serial communications specifications.
3. Compact/lightweight (Integrated communication parts).



### Solenoid Valve -- Taiwan AIRTAC

Ultra High Pressure Solenoid Valve support up to 3Mpa, fast on-off response speed.



## High Performance welding Lathe Bed

Adopting integrated design idea with heavy carbon mechanism bed, stress removal annealing treatment, gantry milling machining center finishing, with high stability, high cutting accuracy, long time running without deformation.



No manual operation, easily auto focusing  
Larger range: can be used for all kinds of large power  
Higher accuracy: module design, high precision, easy to use  
Longer lifetime: auto adjusting the focus, can be used



Two way interconnected, bigger clamping range  
Fast adjusting the claws, more accurate positioning  
Easy clamping different pipes

The back claw is designed longer, which can be moved into the front claws. It reduces the waste and increases the use ratio  
Fast adjusting the claws, more accurate positioning. Can be used for different shapes of pipes, better performance





### 3. Spare Parts

Name	Quality
Nozzle	12
Protective Lens	8
Laser Protective Lens	1
Tool Box	1
Remote Control	1
Chiller	1
Dust Exhaust Fan	1

### 4. Machine Parameter

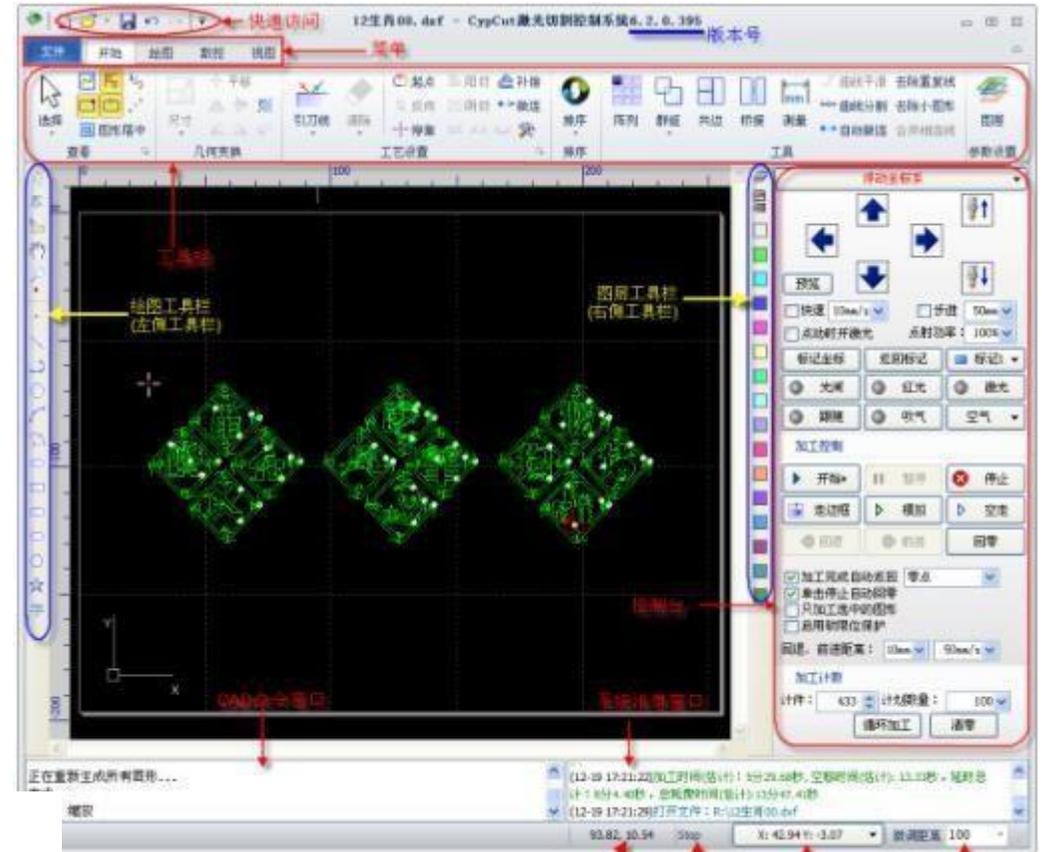
X-axis Running Area	1500mm
Y-axis Running Area	3000mm
Z-axis Running Area	300mm
Working Area	1500*3000mm
Cutting Capacity	18mm MS & 8mm SS
Position Precision	±0.03mm
Repeated Position Precision	±0.02mm
Laser Wavelength	1080±5nm
Max Loading Capacity	900KGS
Min Line Width	0.1mm
Machine Gross Weight	6800KGS
Voltage	Three-phase 380V 50/60Hz



## 5. Available Functions

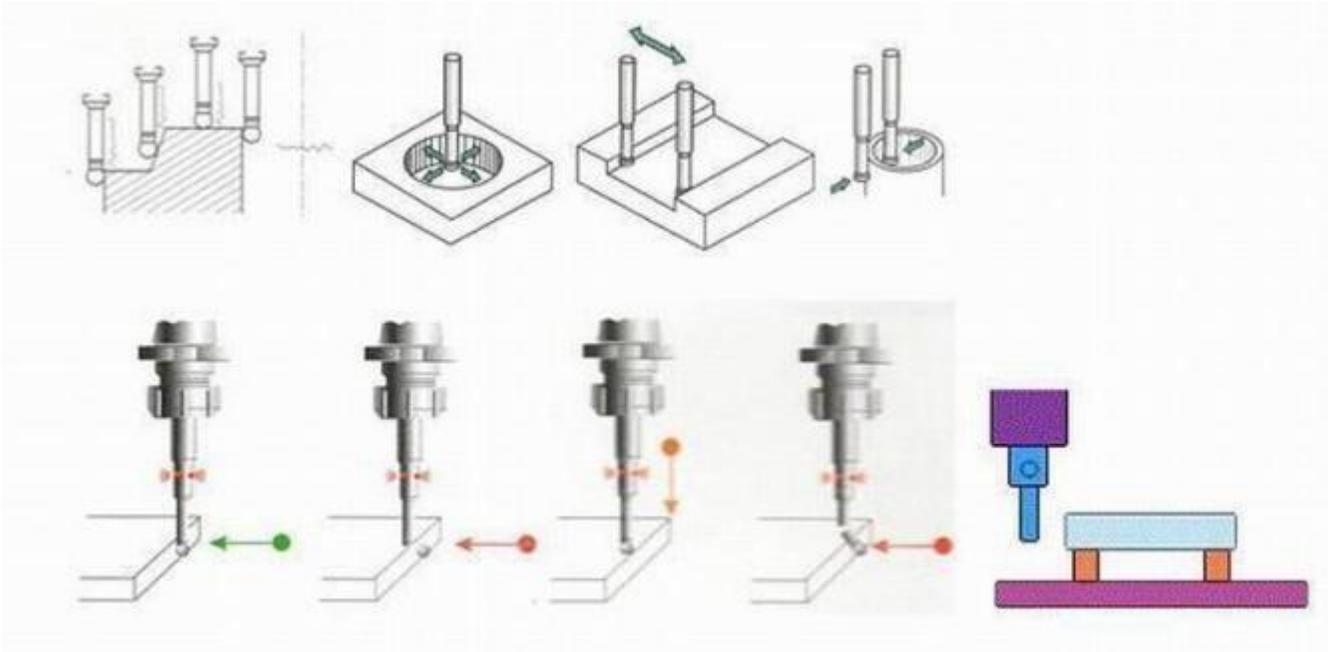
### ● Software

1. Support AI/PLT/Gerber formats, accept Mater Cam, Type3 output international standard G code.
  2. Lead-in/out, cutting compensation, micro-joint, bridging, back entry, gap cutting etc.,
  3. Multiple piercing methods available, separated laser power/frequency/ gas type/ gas pressure/ height track can be set during cutting and piercing,
  4. WIFI remote control panel
- **Leapfrog function:** highly improve the cutting efficiency.

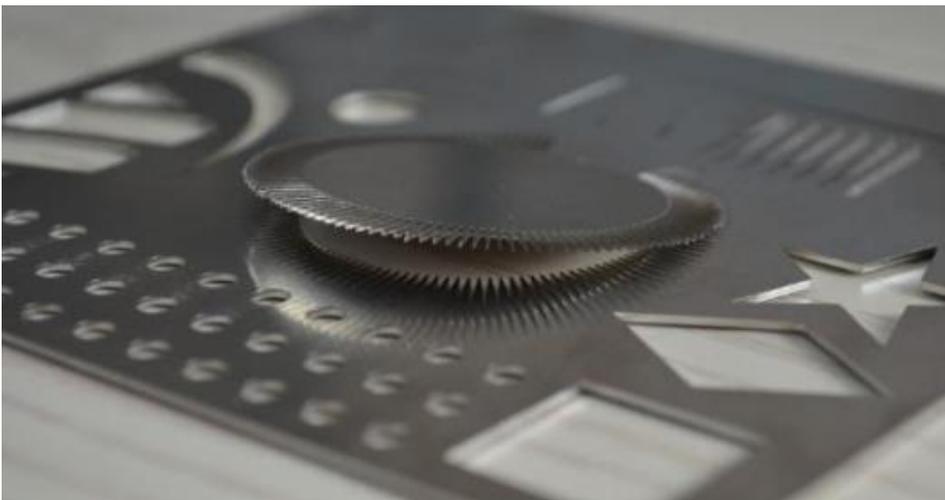




- **Photoelectric edge search** : fast location and improve processing efficiency

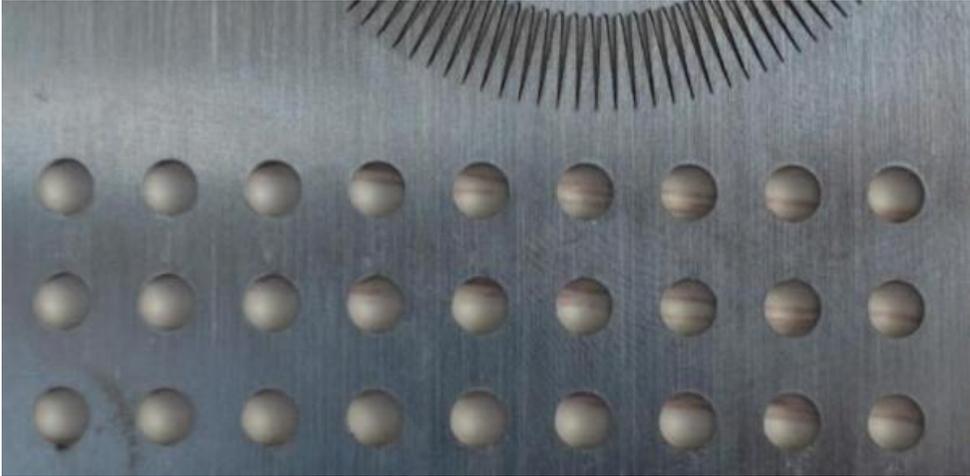


- **Power control**: allowing corners to be cut with a sharp angle

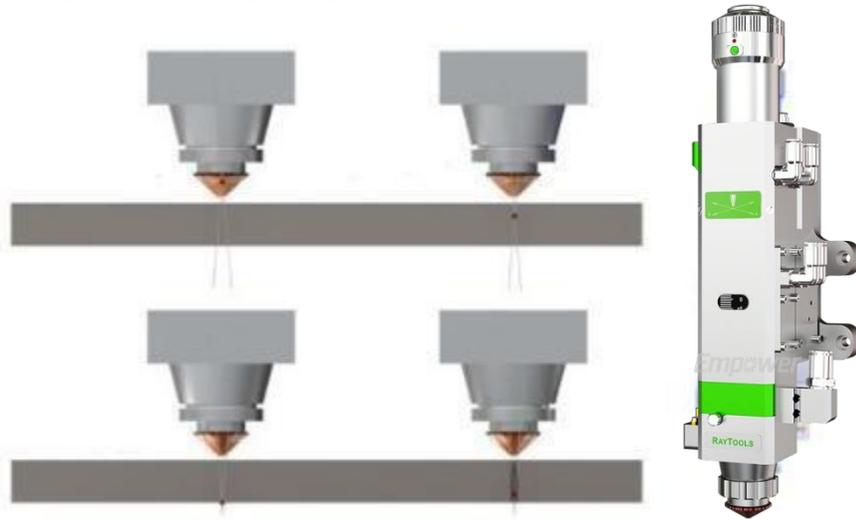




- **Flying cut:** especially for thin metal sheet, fast cut of matrix patterns



- **Sprint laser piercing:** This helps to keep the optics clean and improves the cutting process by pushing vaporised and liquified material out through the kerf, especially for the thick sheet metal.





6. Cutting Samples



## **7. Technical Support and After-sales service**

### **DOCUMENTATION**

The following documentation is supplied with the machine:

- Copies of the Machine Instruction Manual
- CE conformity declaration.
- Delivery Protocol.
- Software manual.

USB driver for backup. WIFI instant detecting and fast problem confirming.

### **TRAINING**

Based on the contract, we delivery laser machine to customers place safely within the specified time, and send engineer to install at user place. Under the basic conditions of installation machine, engineer will complete the installation and commissioning machine within 1-2 days for the user, and ensure neat, clean and orderly. We provide technical training. After the installation and commissioning completed, engineer will service buyer operator at least 5 days at buyer place or at seller factory until the operator can operate machine. The training as follows:

- Delivery & Installation with an 45 day.
- raining operating instruction of turning on and off machine;
- Meaning of panel and control parameters,
- Training parameter selection range;
- Training control software operation ;
- Basic maintenance and cleaning of the machine;
- Dealing with common hardware problem;
- Noted question in operating ;
- In addition to, we also provide users technical support related their producing products.



**SKY TECH SOLUTIONS**

**After-WARRANTY sale services cost**

A. We can arrange our engineers to visit your factory, and install, test, operate machine and offer training. **Visa cost, flight ticket cost and accommodation** will be afforded by your esteemed company. The Visit Charge **fee is INR 5000/ day/ person.**

B. Your esteemed company could arrange the engineer to come to our factory for training. We will suggest hotels and restaurant accordingly. Training time should be no more than 7 days. No extra training fee needed to pay.

**Contact us on:**

**SKY TECHSOLUTIONS PVT. LTD.**

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