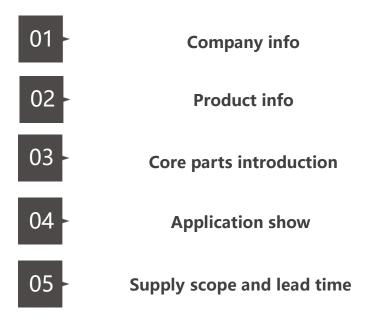








Content





Han's Songu Company Info

Suzhou Han's Songu Intelligent Equipment Co.,Ltd. a subsidiary of Shenzhen Han's Laser Technology Co., Ltd(stock code:002008), locate in Taicang, Suzhou, close to Shanghai, is a high-tech enterprise which integrates laser, precision machinery, numerical control technology and modernization management system. Songu Intelligent Equipment focus on high-end, high-power 2D laser cutter, 3D laser cutting/welding system, advanced automatic metal-tube laser cutter and offer package automation solution.

The Plant one has 10,000 m² production floor area and 1000 m² showroom, Plant two will have 60,000 m², which is under preparation. With the advantages of superior high-tech talents, sophisticated modernization management experience, advanced laser technology and a comprehensive quality management system, it has developed a sound R&D, manufacturing, sales and service team to offer high-end intelligent laser cutting and welding equipment to domestic and global customers.



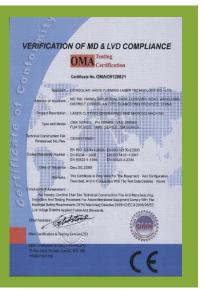
CERTIFICATION













QUALIFICATION & CERTIFICATION



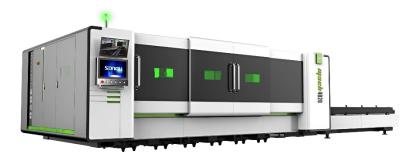


Each product from Han's Songu Intelligent Equipment is strictly examined according to ISO9001 CE standards before put it into the market.



Machine Range

2D High Power Fiber Laser Cutter



Hybrid Laser Cutter for Sheet & Tube



Auto-loading/unloading Tube Cutter



3D Robot Laser Cutter



3D Robot Laser Welding Machine

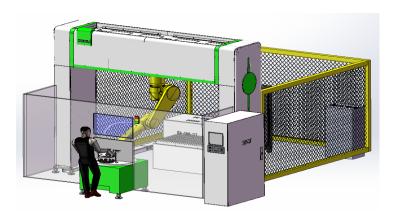




Customized Laser Solution & Automation





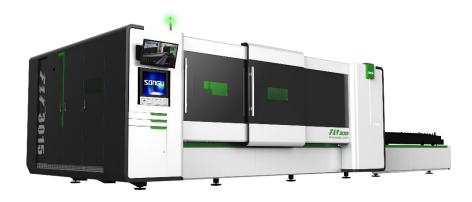




Model Explanation→ FLY3015/4020 /6020















Product features:

- Safety, beauty;
- Fast, efficient, powerful;
- > Stable and robust;
- Low running cost;
- > Easy operation & intelligent;



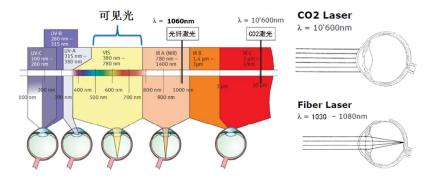


1. Safety & beauty

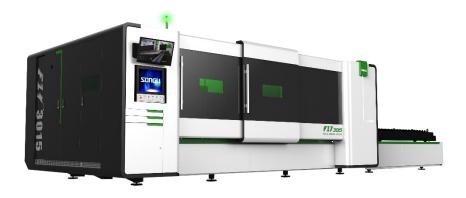
- Protection cover with laser radiation free watching window;
- Professional industrial design, easy reach the operation area

Customer benefit:

Safety and robust







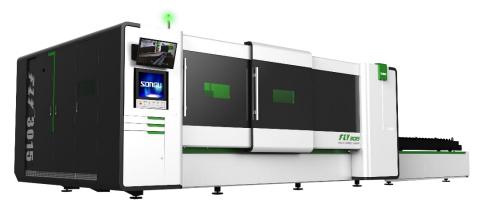
2. Fast speed and high efficiency

- ➤ Max positioning speed 140m /min,
- ➤ Max acceleration speed 1.4G,
- ➤ High rigidity enhanced aluminum gantry, light weight, short start-stop time, high dynamic;
- > Scan cutting is available with the cutting path optimization.

Customer benefit:

Better cutting precision, more orders, more profits.





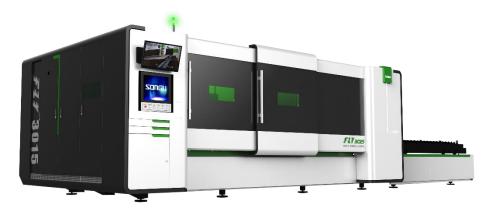
3. Stable & robust

- ➤ Advanced fiber laser source with high stability;
- ➤ Parallel shuttle table, less fault rate, fast exchange speed;
- > Imported core parts, quality guarantee.

Customer benefits:

Safe and reliable





4. Low running cost

- Fiber laser has better Industry-leading wall-plug efficiency (around 40%), less power consumption;
- ➤ Automatic energy saving mode: if the machine stop over 5 minutes, the equipment would stay in the resting state;
- ➤ Laser source has no laser gas, the running cost is much lower than Co2 laser;
- ➤ Servo-control assisted gas, to reduce gas consumption during the movement without cutting, to save cost;

Customer benefits:

Low running cost, more profit





5. Easy operation, intelligent

- ➤ The front door is on the Y axis, easy for operator to reach whole working area;
- ➤ With remote monitoring, remote assistance function, intelligent and convenient;
- ➤ Hand controller is available, easy for operation;
- Servo-control assisted gas, no need manual adjust gas pressure, intelligent and convenient for operator

Customer benefits:

Easy operation and more intelligent





Parameter	3015	4020	6020						
Working size	3000 x 1500 mm	4000 x 2000 mm	6000 x 2000 mm						
Laser power	1000W/1500W/2000W/3000W/4000W/6000W								
Transmission	Synchronized dual large torque servo motor								
Loading method	Parallel shuttle exchange table								
Positioning speed (Max)	140 m/min								
Acceleration (Max)	1.4G								
Positioning accuracy	± 0.05mm (VDI/DGQ 3441)								
Repositioning accuracy	± 0.03mm (VDI/DGQ 3441)								
Power	10KW	11KW	12KW						
Weight (body)	9500Kg	11000Kg	13500Kg						
Dimension	890x300x220cm	1200x360x220cm	1550x420x220cm						



Core part- laser source

- ➤ It has a super compact design with the laser housed in a hermetically sealed cabinet:
- ➤ Maintenance-free Operation,
- ➤ A dehumidifier is installed within the cabinet to ensure optimal internal humidity;
- ➤ Industry-leading wall-plug efficiency our lasers are known for has reached over 40%;
- ➤ The electrical cost savings add up to many tens of thousands of dollars over lifetime of a laser;
- Wide variety of fiber delivery options (50, 100, 150 or 200 μm) core diameter;
- record reliability and maintenance-free operation;
- ➤ Hot redundancy ensures 100% up time with no change in power;
- Compact Rugged Design





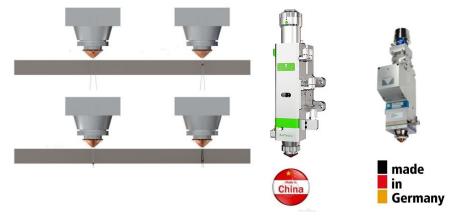
IPG-YLR Specification	YLR-1000/2000/3000 (YLS-			
·	3000/4000/6000W)			
Laser mode	CW,QCW			
Wavelength	1070-1080nm			
Standard output laser power	1000/2000/3000/4000/6000W			
Laser beam quality	≤4mm*mrad			
Modulation speed	5kHz			
Delivery fiber core diameter	≥50µm			
Output stability	±2%			
Power supply	400-460V/3P+PE@50-60Hz			



Core part-laser head

Auto-focus Features:

- The focus is controlled by the inner precision servo motor, no need for manual operation.
- Punching time reduced by 80% compared to common cutting head. Best match for high-speed thick- metal material cutting and highly reflective material cutting.
- Large and complete cutting technique data base.
 Operations are done simply through module data selecting among existing data according to the material features.
 Easy and convenient operation.
- Supporting remote system monitoring through wireless handheld box and Ethernet.

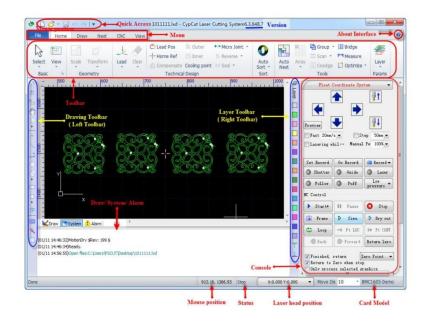




FUNCTION

Software & system:

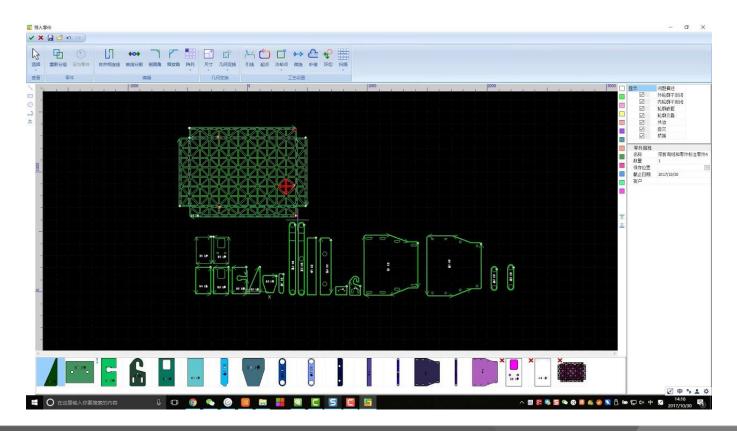
- Professional laser cutting software with simple graphics drawing, including point, line, circle (arc), rectangle, polygon, Bezier curve, text and other basic drawing elements. It mainly supports IGS, DXF, AI, PLT, Gerber and other formats. Graphics can be typeset, zoomed, translated, mirrored, rotated, lead-in / lead-out, micro-connected, and node edited, which is convenient for users to edit graphics.
- Support segmented piercing, progressive piercing, pre-perforation, and support to separate laser power, frequency, laser form, gas type, air pressure, follow height, etc.
- Support remote control system with wireless handheld box and Ethernet





Nesting software:

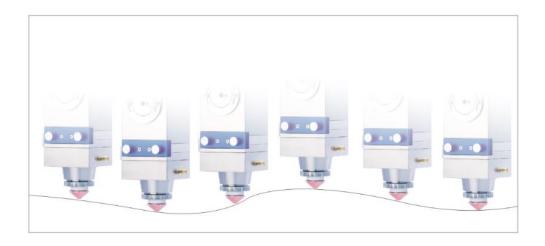
Professional programming nesting software, highly compatible with cutting software, unique functions in piercing, sharp corner processing, etc.





Leapfrog:

Parabolic motion is adopted between lifting cutting contours, while the traditional cutting system uses "rectangular" motion. The system sets the take-off height and the highest height through PLC, and the contour switching process automatically realizes "frog jump", which greatly improves cutting efficiency.





Intelligent analysis (Optional)

Power failure memory, equipment operation timing, fault alarm, detection, emergency automatic shutdown, fault isolation, fault automatic diagnosis, fault content display, etc. Quickly faults detection; multiple cutting auxiliary gases switched by the system

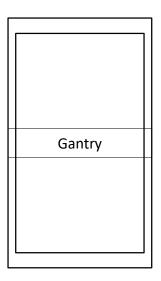


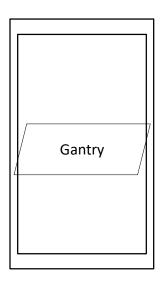
- Intelligent detection;
- Intelligent evaluation;
- Intelligent diagonise;
- > Intelligent prediction

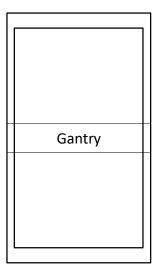


Gantry deviation self correction:

It is necessary for laser cutting machine. It uses two motors to drive the gantry in the same direction to ensure the high dynamic performance of the entire system, especially when the gantry return to origin point.









Software functions



Automatic optimization of imported drawings;



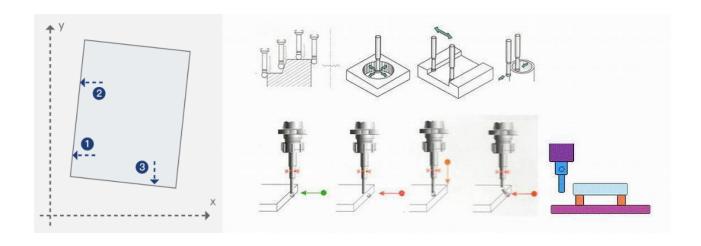
Fast cutting application setting: lead line, compensation, micro-connect, cooling point;





Photoelectric edge search

To position the metal sheet edge on the working table which is not consistent with the X / Y coordinate, the cutting head can be quickly determined by the *Photoelectric Edge Search* function to improve the processing efficiency.





Machine running dashboard (optional)

- Automatically gather and analysis information about stoppages, cycle times, and other efficiency indicators to help improve the production;
- ➤ Real-time machine status monitoring;
- ➤ Multiple data acquisition modes: real time data upload, specified time upload, offline cache etc.
- ➤ Multiple platforms available: touch screen or PC, tablets or mobile phones;
- ➤ Multiple languages available for HMI



4.典型应用

Cutting Applications



SS-Brass-CS-AL-CS



Elevator



Electric cabinet



Product info-FLY laser cutter Configuration

	No.	item	Conf	Spec.	Qty	Remarks
Body	1	Machine tool body	•	3000x1500mm 4000x2000mm 6000x2000mm	1	
	2	CNC controller	•	CypCut (Beckhoff optional)	1	CypCut (Beckhoff optional)
	3	Laser power	•	1000/1500/2000/3000/4000W	1	IPG (Raycus optional)
	4	Laser head	•	WSX/RAYTOOLS/Precitec	1	Optional
	5	Exchange table	•	Parallel shuttle table	1	
	6	Cover	•	Protection cover (top not sealed)	1	
	7	Servo-proportional valve	•	SMC O2 Optional: Servo-proportional valve	1	Optional: high presser N2 servo- proportional valve
	8	Monitoring system	0			
	9	Machine documents	•		1	EN/CN version
	10	Spare parts	•		1	Spare parts list
	11	Water chiller	•	According to laser power	1	Colin/TONGFEI
	12	Refrigeration dryer	•		1	Dominike
Auxiliary machine	13	Dust fan	•		1	
	14	Stabilizer	•		1	
	15	Air compressor	0		1	
	•: 5	Standard o:	Option	al		



Production Plants



QUALITY ENDORSE EXCELLENT INTELLIGENT MANUFACTURING

for Workflow

Production Quality Control



High precision Coordinate detector

Full Process Rigorous Quality Control



OPTODYNE Laser Measure Equipment (USA)



Bidirectional Precision Autocollimator





Quality Control Process

IQC



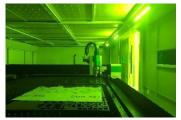




Inspect the spare parts
according to strict acceptance
criteria

Strict quality control for every step of the manufacturing according to Operating Instructions









IPQC/ PQC

FQC







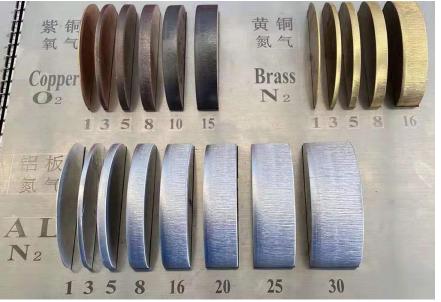
be a comprehensive inspection

according to Acceptance Criteria
and Production Orders to
guarantee the control result.



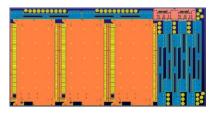
2D laser cutting Application



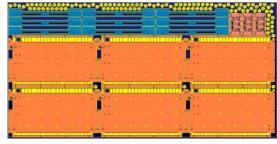


SONGU 大族松谷智能装备

Available working area

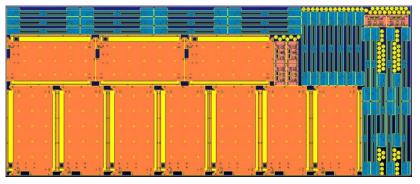


3000x1500mm



4000x2000mm

Bigger size customization welcomed



6000x2000mm



Application













Service Support



SAP ERP system



Global delivery



24 hours online service



Local Installation available



Best CRM Records



5 days free training in factory



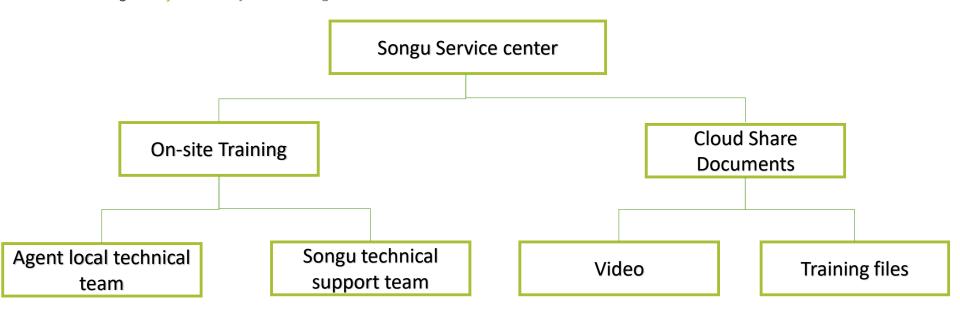
SERVICE

Technical strength: demand research, technical Seminar, laser application testing and samplings service;

Technicians support: 168 domestic technicians, 22 oversea technicians, 5 online engineers, 8:30am~22:30pm online support;

Nearest service: 50 sales & service domestic offices, and 38 oversea agents;

Free Training: 5 days in factory free training (accommodation and food free)





Gooperation Win-win Appreciation Sharing

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