



[Technical Scheme]

Model: LP-6025D

Product Introduction

- 1. High and low exchange platform, fast exchange;
- 2. Large screen split display, can monitor the production process in real time;
- 3. All-round protective cover design, safe and environmentally friendly;
- 4. High power cutting, high efficiency;



Technical Parameter

Note: The pictures are for reference only, the appearance and size are subject to the actual factory equipment

No.	Index	Parameter	Index	Parameter
1	Model	LP-6025D	Floor Space	15463×4356×3000mm (length x width x height)
2	Monitor Rate	59KW	Laser Power	6000W
3	Cutting Format	6000mm×2500mm	Total Weight	16t
4	Y-axis travel	6210mm	Electricity Supply	380v50Hz±10%
5	X-axis travel	2610mm	Maximum Acceleration	0.85G
6	Z-axis travel	440mm	Voltage/Power	380V/50HZ/10KW
7	X, Y axis positioning accuracy	±0.03mm/1000mm	Maximum Feed Rate	92m/min
8	X, Y axis repeated positioning accuracy	±0.02/1000mm	Control System	FSCUT2000
9	The maximum load of the working platform	4500kg	Auxiliary Gas	Oxygen, Nitrogen, Air

Cooling system: laser machine dedicated thermostatically controlled chiller (external)
Circuit and protection system: designed according to CE standard

Technical supplements:

- 1. The workpiece to be processed should be free from serious rust. Rust will affect the quality of the cutting section. The plates should be stored in the open air and placed neatly to reduce surface bumps. The pipes should be straight, reduce bending and twisting, and ensure that the front end is flush. Because the bending interference exceeds the relevant standards, the equipment cannot guarantee the cutting effect;
- 2. Party A must regularly maintain the machine as required;



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Product advantages:

01 Intelligent cutting system 02 Medium power process database 03 Intelligent control system 04 Monitoring and Remote Diagnosis System 05 Automation, intelligence 06 Wide range of applications 07 Wide application 08 Strong and durable bed

01 Intelligent cutting system

FSCUT2000 medium power laser cutting system: easy installation, easy debugging, excellent performance and complete solutions.

02 Medium power process database

Supports five-level perforation, any combination of segment or progressive; supports starting, closing, and fine cutting processes; supports air-moving obstacle avoidance, and leapfrog intelligent judgment; Supports automated applications such as simple scheduling, virtual multi-station, and scanning code maps.

03 Intelligent control system

Open-loop control system, motion control algorithm; track accuracy 0.03mm, positioning accuracy 0.001mm, repeat positioning accuracy 0.003mm; maximum cutting speed 80m/min, the maximum air movement speed is 150m/min; the maximum acceleration is 1.5G; it supports dual-drive error detection function.

04 Monitoring and Remote Diagnosis System

During the processing, each blind spot area can be monitored at any time to control the cutting process; high-definition intelligent monitoring system, remote alarm operation without danger; remote service worry-free, professional engineers are available at any time;

05 Automation, intelligence

Optional automatic material warehouse, can be connected to the mes system, collect the use status of equipment components and intelligently analyze and remind equipment maintenance, helping enterprises to build smart factories.

06 Wide range of applications

Widely used in sheet metal parts, kitchen utensils, lamps, cabinets and other industries.

07 Diversified cutting

Customizable flat bevel cutting, $\pm 45^\circ$ bevel.

08 Strong and durable bed

Independent research and development, overall processing. One-time processing and molding to ensure accuracy. To ensure that the machine tool has excellent shock resistance, high rigidity and stability, good toughness, light weight, corrosion resistance, oxidation resistance, and high processing speed.





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Cutting System

1. Cutting software:

Import graphics automatically optimized

When importing external files, the original image will be automatically optimized

Simple and clear process settings

After importing the graphics, you can quickly set the lead, micro-connection, compensation and other processes, and with the modification function in the batch, you can quickly complete the setting of the entire board process.

Flexible process control bar

It supports floating coordinate system and workpiece coordinate system, which can not only meet the requirements of flexible production, but also easily realize batch production.

Rich native statistics

For the usage of machine tools, rich and timely statistics can be provided.

Accurate edge finding assistance

Support photoelectric edge finding and capacitive edge finding, and quickly correct the deviation angle of the board.

Double drive deviation self-correction

Using the gantry synchronization function, the deviation of the drive shaft will be corrected every time the origin is returned.

2. Nesting software:

Drawing handling and import

Intelligent drawing recognition, automatically judge drawing errors, and efficiently modify wrong drawings; Support to import DWG, DXF format drawings; support Excel table to generate drawings, fast import.

Nesting algorithm

Fast, high-utilization nesting algorithm reduces material waste; there is no limit to the number of nested plates; supports automatic, manual and manual + automatic feeding mixed nesting methods, and supports automatic and manual nesting of special-shaped plates.

Cutting path optimization

Intelligent sorting algorithm that minimizes air movement; fast manual sorting operation mode: a variety of co-edge toolpath generation modes developed to adapt to different customer scenarios.

Accessibility

It can generate various types of processing orders, quotations and other statistical documents; it is fully compatible with the HypCut/CypCutt cutting process.

Common features:

1. Automatic nesting strategy 2. Priority nested nesting 3. Manual nesting 4. Automatic micro-connection 5. Manual sorting 6. Add sheets in batches 7. Automatically modify sheet size 8. Identify external layout results 9. Ladder type common edge toolpath, etc.



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Installation and Training

1、Installation/Training

15 days before the delivery of the equipment, provide the customer with the installation floor plan (including the requirements for the installation of civil works, water, electricity, gas, piping, interfaces, etc.). We are responsible for equipment installation and commissioning. The customer is responsible for the civil work of the equipment installation, and the water, gas pipes, and power lines are connected to the machine tool designated by our engineer. We are responsible for the pipeline connected to the machine tool, but the user should provide the necessary cooperation and assistance for the equipment installation and debugging of our engineer. Mainly learn equipment maintenance, operation, laser protection, processing technology, graphic editing, common troubleshooting, etc. The trainees are required to be mechanical, electrical or optical assistant engineers or engineers, understand computer operation, and be able to draw SolidWorks. The trainees should pass the assessment organized by the supplier on equipment operation, basic laser knowledge, safety protection, maintenance, etc. before they can take up their posts.

2、After-sales service

The whole machine is guaranteed for 1 year and maintained for life.

Our company will help the buyer to coordinate the problem of auxiliary equipment sales service. Our sales engineers will provide corresponding telephone support and necessary on-site services according to the problems reported by customers.

During the warranty period of the equipment, our company will replace the components free of charge due to the quality of the equipment components themselves, and provide free services at the same time. [Excluding wearing parts and damage caused by user error]

Regarding the replacement of equipment components (including wearing parts), whether it is within the warranty period or outside the warranty period, please be sure to purchase from our company to ensure that your equipment is in normal use, and we will also be responsible for the maintenance of this component. If there is any damage or failure caused by the accessories purchased from us, our company will stop the free warranty service and the warranty period will end.

During the warranty period, our company does not provide warranty for the following items: nozzle, ceramic ring, dust cover, filter element and filter element, constant temperature fluid, all lubricating oil, working optical fiber, collimating lens, cutting lens.

3、Pre-validate

The pre-acceptance is carried out at the supplier's site, and the main acceptance indicators are as follows:

The function of the whole tube laser cutting machine; the appearance and composition of the equipment; the coordination and reliability of the whole tube laser cutting machine.

Acceptance of technical indicators of the whole tube laser cutting machine: acceptance according to the main technical agreement indicators of the equipment.

Workpiece acceptance: cutting according to the workpiece provided by the buyer. After the pre-acceptance is passed, it can be shipped.

4、Final acceptance

The final acceptance is carried out at the buyer's site and is jointly carried out by the personnel of both parties. The main acceptance indicators are as follows:

The function acceptance of the whole tube material laser cutting machine; the appearance and composition of the equipment, and the acceptance of the coordination and reliability of the whole tube material laser cutting machine.

Acceptance of the technical indicators of the entire tube laser cutting machine; acceptance according to the main technical agreement indicators of the equipment.

Sample acceptance: cutting according to the workpiece provided by the buyer to meet the sample cutting requirements.

Cutting Samples:

