

[Technical Scheme]

Model: LT-9025GA

Product Advantages

1. Strong tolerance, suitable for various shapes of metal pipes;
2. Intelligent operating system, rich cutting functions;
3. Smart chuck, super strong clamping;
4. Follow-up servo support, accurate positioning;
5. Three card linkage, zero tail material;
6. Automatic feeding;



Product Advantages

No	Index	Parameter	Index	Parameter
1	Model	LT-9025GA	Floor space	19358×5680×2408mm
2	Cut pipe length	9300mm	Cut pipe diameter	Diameter Φ 口16-240mm
3	Total power	54.8KW	Total weight	12.2T
4	Tailstock length	≥0mm	Electricity supply	380v50Hz±10%
5	Y-axis travel	10400mm	Maximum acceleration	1.2G
6	X-axis travel	760mm	Chuck load	600kg
7	Z-axis travel	300mm	Maximum feed rate	92m/min
8	X, Y axis positioning accuracy	±0.05mm/1000mm	Control system	FSCUT5000
9	X, Y axis repeated positioning accuracy	±0.03/1000mm	Auxiliary gas	Oxygen, nitrogen, air
10	Max.rotating speed	85r/min		

Cooling system: laser machine dedicated thermostatically controlled chiller (external)
Circuit and protection system: designed according to CE standard
Software: Tubest Professional Tube Nesting Software
Supported file formats: Solidworks, Pro/e, UG, etc.

Technical supplements:

1. There should be no serious rust on the processed workpiece. 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. Pay attention to the safety of personnel and equipment when feeding pipes, and loading in bundles needs to be carried out by driving;
3. Party A must regularly maintain the machine as required;

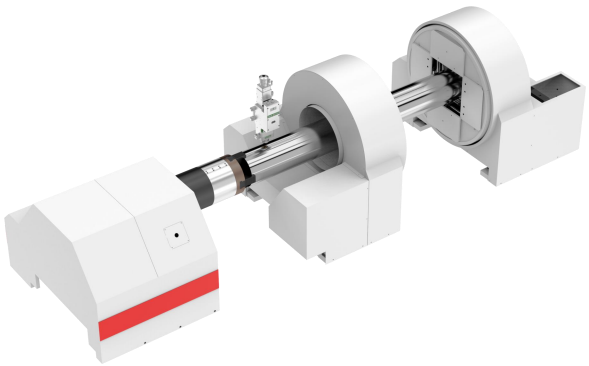


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Autonomous Technology:

1.Machine Bed: independent research and development, overall processing. Has excellent dynamic and static characteristics. Welded with high-quality raw materials. Ensure that the guide rail surface and the rack surface are processed and formed at one time to ensure accuracy. These design and processing methods 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.



2. Chuck: The R&D team of Acme Laser Chuck adheres to independent innovation, strong R&D capability, and has obtained a number of technical patents and completely independent intellectual property rights. Compared with other manufacturers, it is more suitable for the application of pipe cutting machines.

Performance advantages:

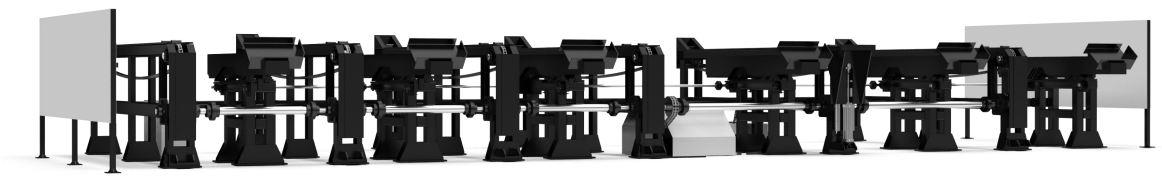
Square hole design, stronger passing ability;
The clamping force can be adjusted intelligently, which is suitable for different types of pipe processing needs;
Full stroke clamping range without manual adjustment;
High dustproof level and stronger stability
The lengthened design of the rear chuck can deeply pass through the front chuck to achieve "zero tailing" cutting in the case of two chucks.

3. Servo support: The servo follow-up support system independently developed by Acme Laser can adjust the height in real time according to the height of the pipe when it rotates, so as to realize the perfect support during the cutting process.

Performance advantages:

Good tolerance, large and small pipes can be competent, and can be self-centering for various pipes;
Strong support and load-bearing, a single support material of conventional pipe fittings can reach 120Kg;
The follow-up action is good, and the three-sided roller makes the feeding smoother;





4.15s patented design of automatic feeding: Acme feeding mode, the bed feeding machine is seamlessly connected, cutting and feeding are carried out at the same time, one person can guard multiple equipments, saving labor and improving efficiency;

Performance advantage: a feeder with the strongest stability, chain drive, stable structure, suitable for batch processing;
80mm diameter drive shaft, good rigidity, the maximum load of the whole machine can reach 6.5 tons, the stacking weight is 4.5 tons, and the single weight is 660Kg;
It can adapt to various tube types such as round tube, square tube, rectangular tube, H steel, channel steel, L steel, etc.;



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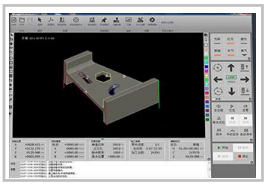
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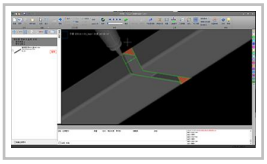
Cutting System

1. Cutting software:

(1) Automatic centering during processing: Collect Z-axis information to obtain the deviation between the center of the pipe and the center of rotation of the chuck. Real-time compensation is performed on the subsequent graphics to be cut to achieve high-precision processing.
(2) Cutting of special-shaped steel: It supports the cutting of standard pipes such as round pipes and square pipes, and also supports the cutting of various special-shaped steels, such as I-beam, channel steel, polygonal pipes, etc., and can be automatically centered.
(3) Dual mode: Workpiece mode—perforating the cut pipe. Floating mode - suitable for any processing anytime, anywhere.
(4) Seven-axis pulling material: support three-chuck seven-axis machine. Zero tailing processing can be achieved through two movable chucks and one fixed chuck.
(5) Bracket: When processing long pipes, the bracket can be automatically raised and lowered according to the position of the chuck during the processing.
(6) Corner process: The pipe corner process is introduced, and a set of reasonable corner air pressure, peak power, duty cycle, etc. is set through debugging, so that the cutting at the corner of the pipe is faster and more perfect.
(7) Rapid frog leap: According to the pipe section information and the position information of the pipe hole, the Z-axis can be guaranteed a reasonable lifting height to avoid unnecessary lifting.

2. Nesting software:



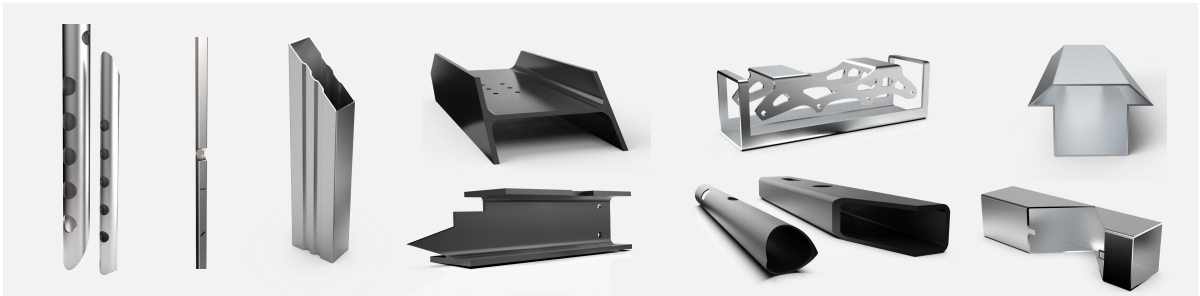


(1) Intelligent typesetting
①One-click intelligent typesetting, intelligent drawing recognition.
②Automatically judge the drawing errors, and efficiently modify the wrong drawings.
③Fast and high utilization rate nesting algorithm.
④Automatically adjust the direction of the pipe, a variety of automatic edge sharing and other functions.

(2) Production report
①One-click generation of processing reports.
②Automatic calculation of processing time and processing quantity.
③Automatic calculation of cutting length, perforation times, etc.
④Automatically count the utilization rate of materials.

(3) Typesetting strategy: all pipes (including special-shaped pipes) can realize the automatic sorting of the air movement path; for common rectangular tubes and round tubes, two automatic sorting strategies are provided: surface sorting and circle sorting to achieve a more reasonable processing path.
(4) Profile processing: It supports the extraction and editing of special profiles such as angle steel, channel steel, I-beam, etc., and can realize the common edge nesting of special profiles, which greatly expands the processing capacity of pipe cutting equipment.

3.Cutting sample display





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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 eqipment 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 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.

