



120mm/Min Plate And Tube Fiber Laser Cutting Machine 220V 380V 415V 440V

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: genuo
- Certification: M.2020.206.C6366
- Model Number: PT-3015/4015/4020/6015/6020/6025/8025
- Minimum Order Quantity: 1
- Price: negotiable
- Packaging Details: carton box
- Delivery Time: 90 days
- Payment Terms: L/C, T/T, D/P, D/A
- Supply Ability: 1 Set/Sets Every 15~35 days



Product Specification

- Product Name: Fiber Laser Metal Cutting Machine
- Application: Stainless Steel Metal Sheet Plate Laser Cut
- Laser Type: Fiber Laser
- Laser Power: 1KW/1.5KW/2KW/3KW/6KW/12KW/15KW
- Voltage: 220V/380V/415V/440V/customized
- Max Cutting Speed: 120mm/min
- X/Y Axis Positioning Accuracy: $\leq \pm 0.03$ Mm/min
- Control System: Cypcut Control
- Control Software: Genuo-Cypcut
- Cooling Type: WATER COOLING
- Laser Source: Raycus/Max
- Laser Cutting Head: WSX Or RayTools Laser Auto Focus
- Linear Guide Brand: PMI Or HIWIN Guide Rail
- Electrical Components: German Schneider



More Images



Laser Cutter

VERSATILE GNPT Sheet&Tube Series



OPEN TYPE



MULTI-FUNCTION



INTEGRATED DESIGN



GENUO Versatile GNPT series plate and tube integrated laser cutting machine has multiple functions and can cut sheet metal and metal pipes. Thanks to GENUO's safe and reliable conversion of plate and tube cutting function, it has multiple functions, stable machining accuracy, efficient cutting ability, accurate positioning, and solves the cutting scheme of multiple types of workpieces.

It can save more than 50% of space and bring higher production efficiency.

It is a multifunctional laser cutting machine with high cost performance.

1KW ~ 6KW optional.

Standard Equipment	Optional Equipment
▼ Raycus or Max laser source	▽ IPG or nLIGHT laser source
▼ WSX or RayTools laser cutting head	▽ PRECITEC laser cutting head
▼ Φ220 Auto pneumatic chuck	▽ Beckhoff CNC control system
▼ High strength stress relieved frame	▽ Nodular Cast-iron integral frame
▼ Lightweight aviation aluminum beam	▽ Φ350 Auto pneumatic chuck
▼ Motovario planetary reducer	▽ Alpha planetary reducer
▼ YYC gear rack,HIWIN guide rail	▽ Atlanta gear rack,Rexroth rail
▼ Hanli water cooling system	▽ Power regulator Device
▼ Automatic lubrication system	▽ Air compression system

Configuration Details

Tube sheet integrated cutting, easy to exchange, can not only cut flat plate, but also meet the needs of users to cut round tube, square tube and forming box.



Special Support	Pneumatic Chuck
Avoid sagging and deformation of pipes,improve cutting accuracy and prolong the service life of chuc	Pneumatic clamping opening large and constant clamping force, no looseness and slipof heavy pipe,so as to ensure cutting accuracy

Structural Advantages

	<p>Functional Tube Cutting System</p> <p>Pneumatic double chuck structure, with special support. Versatile can also cut pipes with ease. Whats more,It can process square pipe, rectangular pipe, L, U and H profiles Dimension: Round pipe Φ 50mm-360mm,Square pipe side length 50*50mm-250*250mm.</p> <p>High torque and large inertia servo motor can achieve faster acceleration and higher chuck speed. Make pipe cutting accurate and efficient.</p>
	<p>Modular High-Yield Frame</p> <p>The main frame of the cutting machine is welded with high-quality carbon structural steel with tensile strength up to 500MPa, After high temperature annealing and natural aging to eliminate welding stress, deformation prevention, more durable.</p> <p>Then by the large-scale precision gantry machining center for precision machining.Stable and reliable bed, no deformation, to ensure long-term cutting accuracy and machine stability. Optional casting machine bed.</p>

Main Accessories



Advanced Laser Generator

Standard configuration of stable and efficient Raycus or MAX laser generator. Modular design, highly integrated system, free from maintenance, high reliability.

The laser power is continuously adjustable, with high beam quality and high laser stability. It is an ideal laser source for laser fine cut, precision welding and other applications. Compared with other similar lasers in the market, our laser has obvious advantages.

Optional IPG and nLIGHT Laser.

Intelligent Cutting CNC Control

The whole series of laser cutting machines are equipped with CypCut laser cutting control software or HypCut ultra-high power laser cutting control software. With high accuracy visual positioning system and integrated CNC system successively.

It is easy to use and has powerful functions, which can meet and apply to various processing occasions. In addition, it has WiFi remote control function. Escort your machine wherever it is used. Optional Germany PA8000, Siemens CNC cutting system



Aviation Aluminum Beam

The crossbeam is made of aviation grade aluminum, which is processed by extrusion molding process and heat aging process, which makes the whole machine rigid and has excellent surface quality and good toughness.

The light weight and high rigidity of the crossbeam ensure the high-speed movement during laser processing.

At the same time, it has perfect dynamic performance and meets the accuracy. With long service life, it can keep the shape unchanged to the greatest extent, so as to ensure the cutting accuracy and product quality.

Exactly Matched Laser Head

All Genuo laser cutting machines are standard equipped with WXS or Raytools auto-focusing laser cutting heads. The cutting heads have a built-in motor drive unit, which drives the focusing lens through a linear mechanism to change position automatically.

Customers can set the program to achieve continuous focus that completing the rapid piercing and cutting material with different thickness. The design of water-cooled structure allows laser heads to work stably and chronically. Optional PRECITEC and Lasermach laser cutting heads.



High Precision Transmission Parts

Special Japanese SHIMPO or French Motovario flange reducer, precision rack and pinion, silent linear guide. Connect the lathe bed and the cutting part precisely.

Let the machine run in a very smooth and efficient way. With the automatic lubrication system, the maintenance of mechanical parts is greatly reduced.

Optional Atlanta reducer, rack and pinion.



Superior Quality Electrical Components

The machine adopts Japanese Fuji or Panasonic servo motor and drive up to 6000r / min.

Powerful torque and power greatly improve the cutting efficiency. At the same time, it has extremely accurate positioning accuracy and long service life.

The main electrical accessories are Schneider and Siemens, reasonable line connection and optimization. Ensure a very low failure rate.

Optional Yaskawa servo motor and drive.

Optional Installation



Power Stabilizer	Dust Collector
<p>Unstable voltage can cause mortal injury or equipment malfunction, affect production, cause delivery delays, and unstable quality.</p> <p>At the same time, it accelerates the aging of the equipment, affects the service life and even burns the parts, so that the owner is faced with the problem of repairing or having to update the equipment in a short period of time, wasting resources; In severe cases, even security incidents can occur, causing incommensurable losses. Therefore, Therefore.</p> <p>If your factory voltage fluctuates greatly or is unstable, it is necessary to use a voltage Stabilizer.</p>	<p>The harmful smoke and dust produced by laser cutting is very harmful to human health and the core components of the machine.</p> <p>Therefore, it is urgent to choose a waste gas treatment method. The smoke and dust enter the internal filtering system of the equipment through the smoking pipe and are discharged locally.</p> <p>The filtering system is composed of physical and chemical multi-level filtering system, and the purification rate is up to 99%. It can not only remove smoke, but also eliminate pungent odor. This kind of equipment is specially used for the purification of smoke and dust of laser machine.</p>

Air Compression System	
	<p>Special for laser cutting, it adopts integrated air compressor, air receiver, cold dryer, filter element, direct connection low resistance design. Sufficient flow, giving play to better cutting performance.</p> <p>The side exhaust air is designed to dissipate heat and is not easy to accumulate dust.</p> <p>Automatic and manual dual blowdown design to remove residual substances.</p> <p>Four stage filtration, YUKA brand, filter. Front mounted black oil mist filter, with good water and oil removal effect. The filtration precision of over setting oil and water removal can reach 0.01PPM.</p>

Features



The cutting machine adopts international famous brand advanced laser, which has high electro-optical efficiency, water-saving and power-saving. Especially important, it can be free of maintenance for a long time, save a lot of maintenance funds and time, and improve work efficiency.

The overall main frame adopts gantry structure worktable. The high damping bed has good rigidity, high precision and stable operation. The frame structure is made of high-quality steel honeycomb welding. The machine tool is annealed, twice aged and processed by large-scale gantry milling machine. These design and processing means ensure that the machine tool has excellent seismic resistance, high rigidity and stability. It fully meets the stability requirements of the machine tool in high-speed motion.

The high precision double side rack and pinion drive and linear guide rail are adopted, and the powerful dual drive servo motor drive system is used to effectively ensure the speed and accuracy of laser cutting.

Also can choose the exchange type worktable, the failure rate is extremely low, the exchange time is short, greatly improves the production efficiency.

Cutting Ability

GENUO laser cutting machine has powerful cutting ability, "flying" cutting speed, ultra-high stability, high quality processing, extremely low operating cost and ultra-high adaptability.

Five Advantages

LIGHTNING PIERCING

FOLLOW UP STABILITY

OPTIMIZE CUTTING PROCESS

CONTINUOUS PERFORATION

STABLE AND EFFICIENT



Technical Parameter

Model	GNPT-3015	GNPT-4020	GNPT-6020	GNPT-6025
Cutting range	3000*1500mm	4000*2000mm	6000*2000mm	6000*2500mm
Pipe cutting length	6000mm	6000mm	6000mm	6000mm

Chuck diameter	160/220/320mm	160/220/320mm	160/220/320mm	160/220/320mm
Laser power	1000W~6000W	1000W~6000W	1000W~6000W	1000W~6000W
Max. positioning acceleration	15 M/S ²	15 M/S ²	15 M/S ²	15 M/S ²
Positioning accuracy	±0.03 mm	±0.03 mm	±0.03 mm	±0.03 mm
Reposition accuracy	±0.02 mm / m	±0.02 mm / m	±0.02 mm / m	±0.02 mm / m



Maanshan Genuo Machinery Manufacturing Co., Ltd.



0086 555 7168598



sales@genuogroup.com



genuocnc.com

Wanda Center 1116, Yushan District, Maanshan, Anhui, China 243000