



Automation Sheet Laser Cutting Machine 120mm/Min 1KW 1.5KW 220V 380V Sheet Metal Laser Cutter

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: genuo
- Certification: M.2020.206.C6366
- Model Number: ST-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

- Machine Name: Automation Sheet Laser Cutting Machine
- Product Application: Stainless Steel Metal Sheet Laser Cut
- Machine Laser Type: Fiber Laser
- Machine Laser Power: 1KW/1.5KW/2KW/3KW/4KW/6KW/8KW/12KW
- Machine Voltage: 220V/380V/415V/440V/customized
- Cutting Max Speed: 120mm/min
- Machine X/Y Axis Positioning Accuracy: $\leq \pm 0.03$ Mm/min
- Control System Brand: Cypcut
- Machine Control Software: Genuo-Cypcut
- Machine Cooling Type: WATER-COOLING
- Laser Source Brand: RAYCUS/MAX
- Laser Cutting Head Brand: WSX/RayTools Laser Auto Focus
- Linear Guide: PMI Or HIWIN Guide Rail
- Electrical Components Brand: German Schneider



Product Description

Automation Sheet Laser Cutting Machine

→ Product Introduction:

Genuo Flash GNST series fiber laser cutting machine adopts the mainstream most efficient fiber laser and open bed structure. Thanks to GNST series laser cutting machine for its small footprint, high performance and convenient installation. It has become one of the most economical and popular series of laser cutting machines in the market. It has the advantages of smooth section, convenient operation, low energy consumption, high speed, small incision, suitable for mass continuous processing, and highlights the competitive advantage of cutting. 1kW ~ 6KW optional.

→ Advantages of Genuo :

1. What's more, We have professional technology, advanced processing equipment, scientific quality management, continuously improving production capacity and creativity, which lay a solid foundation for the sustainable development of our company.
2. GENUO provides a variety of tooling solutions to meet your different production needs. Not only that, we are also experts in the field of bending tools. If you have any special bend, our engineers will customize special tools for each workpiece.
3. We are an ODM and OEM company that can produce machines according to the specifications, designs, and customer requirements of world-renowned brands.
4. The production process meets the highest standards to ensure exceptional quality and perfect detail. During the delivery period, we can customize high-performance solutions and timely after-sales service for you.

Standard Equipment	Optional Equipment
▼ Raycus or Max laser source	▽ IPG or nLIGHT laser source
▼ WSX or RayTools laser cutting head	▽ PRECITEC laser cutting head
▼ GENUO-Cypcut control software	▽ Beckhoff CNC control system
▼ High strength stress relieved frame	▽ Nodular Cast-iron integral frame
▼ Lightweight aviation aluminum beam	▽ Light protection barrier
▼ 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

→ Machine Detail :

Laser Cutter

FLASH GNST Single Table Series



Machine Configuration Details



Schneider Electric
The new generation of Schneider electrical switch components, durable to ensure the stability of your machine long service life.



MOTOVARIO Reducer
France MOTOVARIO Reducer is with high transmission efficiency, low energy consumption and superior performance.



Panasonic Servo Motor
High precision, high speed, realizes closed-loop control of position, speed and torque.

The machine has a novel appearance, a number of patented technology, professional design. With high speed, small slit, smooth section, easy operation, low energy consumption, suitable for large-scale continuous processing, highlighting the competitive advantage of cutting.

Main Accessories

Advanced Laser Generator: Standard configuration of stable and efficient Raycus or MAX laser generator. High system integration, modular design, maintenance-free, high reliability.

The laser power is continuously adjustable, with high beam quality and the laser stability is good. 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 : A full range 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. Easy to use, powerful, can meet and apply to a variety of processing occasions. In addition, it also has WiFi remote control function. Escort your machine wherever it is used. Optional Germany PA8000, Siemens CNC cutting system.



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, and the wiring is reasonable and optimized. Ensure a very low failure rate. Optional Yaskawa servo motor and drive.



Accurately 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.

Good 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.



Advantages

- ① LIGHTNING PIERCING
- ② FOLLOW UP STABILITY
- ③ OPTIMIZE CUTTING PROCESS
- ④ CONTINUOUS PERFORATION
- ⑤ STABLE AND EFFICIENT

The cutting machine adopts advanced laser cutting machine of international famous brand, which has high electro-optical efficiency, water-saving and power-saving. Importantly, it can be free of maintenance for a long time, saving a lot of maintenance funds and time, and improve work efficiency. The overall main frame adopts gantry structure worktable. The high damping bed has high precision, stable operation and good rigidity. 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.



Aviation Aluminum Beam

The crossbeam is made of aviation grade aluminum. After manual aging, solution treatment and finishing, the beam has good integrity, rigidity, toughness and ductility. The lightweight 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.



High Strength Heavy Frame

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.

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.

→ Machine Parameter:

Model	GNST-3015	GNST-4015	GNST-4020	GNST-6015	GNST-6020	GNST-6025	GNST-8025
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Processing range	3000*1500m m	4000*1500m m	4000*2000m m	6000*1500m m	6000*2000m m	6000*2500m m	8000*2500mm
X-axis track	1500mm	1500mm	2000mm	1500mm	2000mm	2500mm	2500mm
Y-axis track	3000mm	4000mm	4000mm	6000mm	6000mm	6000mm	8000mm
Z-axis track	140mm	140mm	140mm	140mm	140mm	140mm	140mm
laser power	1000W/1500W/2000W/3000W/4000W/6000W/8000W/12000W/15000W/20000W/Other						
X/Y axis positioning accuracy	$\leq \pm 0.03 \text{ mm / min}$						
X/Y axis repeated positioning accuracy	$\leq \pm 0.02 \text{ mm / min}$						
Max. positioning speed	120 m / min						



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