



2KW 3KW 4KW Single Table Fiber Laser Cutting Machine 220V 380V 415V 440V

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

- 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/4KW/6KW/8KW/12KW
- 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



Laser Cutter

FLASH GNST Single Table Series



OPEN STYLE



GANTRY TYPE



HIGH PRECISION



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.

Professional ergonomic design, novel appearance. It has the advantages of high speed, small incision, smooth section, convenient operation, low energy consumption, suitable for mass continuous processing, and highlights the competitive advantage of cutting. 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
▼ 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


Configuration Details

It is a professional machine design, novel appearance and many patented technologies. It has the advantages of high speed, small slit, smooth section, easy operation, low energy consumption suitable for continuous processing in large quantities, and highlighting cutting competitive advantages.



Schneider Electric	MOTOVARIO Reducer	Panasonic Servo Motor
The new generation of Schneider electrical switch components, durable to ensure the stability of your machine long service life.	France MOTOVARIO Reducer is with high transmission efficiency, low energy consumption and superior performance.	High precision, high speed, realizes closed-loop control of position, speed and torque

Structural Advantages

	<p>Aviation Aluminum Beam</p> <p>The crossbeam is made of aviation grade aluminum, After manual aging, solution treatment and finishing, the beam has good integrity, rigidity, toughness and ductility.</p> <p>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.</p> <p>With long service life, it can keep the shape unchanged to the greatest extent, so as to ensure the cutting accuracy and product quality.</p>
	<p>High Strength Heavy 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



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 Lasermech laser cutting



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

Unstable voltage can cause mortal injury or equipment malfunction, affect production, cause delivery delays, and unstable quality.

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.

If your factory voltage fluctuates greatly or is unstable, it is necessary to use a voltage Stabilizer.

Dust Collector

The harmful smoke and dust produced by laser cutting is very harmful to human health and the core components of the machine.

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.

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.



Air Compression System

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.

The side exhaust air is designed to dissipate heat and is not easy to accumulate dust.

Automatic and manual dual blowdown design to remove residual substances.

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.

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	GNST-3015	GNST-4015	GNST-4020	GNST-6015	GNST-6020	GNST-6025	GNST-8025
Processing range	3000*1500m m	4000*1500m m	4000*2000m m	6000*1500m m	6000*2000m m	6000*2500m m	8000*2500 0mm
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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