



## **Industrial Gantry CNC Plasma Cutting Machine**

Industrial Gantry CNC Plasma Cutting Machine is a high-efficiency and energy-saving cutting equipment, suitable for precision cutting and blanking of carbon steel, stainless steel and non-ferrous metal plates of various thicknesses, improving the utilization rate of plates, saving time and materials. Flame cutting can cut 0-200mm stainless steel, carbon steel and non-ferrous metals to achieve high-quality cutting.

## **The structure and configuration list**

Industrial Gantry CNC Plasma Cutting Machine is specially designed for sheet metal cutting, featuring high degree of automation, high efficiency, convenient operation and long service time. The plasma cutting machine is a gantry structure, double drive system, and the working size can be customized according to needs. It can be used to cut any two-dimensional graphics of carbon steel, stainless steel and non-ferrous metals, and the gantry plasma cutting machine is widely used in the field of metal cutting.

Gantry plasma cutting machine features:

- 1) The beam is designed with lightweight structure, with good structural rigidity, light weight and small motion inertia.
- 2) Gantry type structure, Y axis adopts dual motor dual drive system, X, Y, Z axis adopts double straight line, so that the machine runs smoothly and has high precision.

Completely solve the traditional manual processing methods. The efficiency is increased several times.

1-Seamless welding machine body

2-Working area: 3000\*6000mm

3-Huayuan LGK plasma source(Power optional:63A,100A,120A,160A,200A,300A)

4-Industrial flame cutting system

5-FangLing 2300B control system

6-Automatic torch height control

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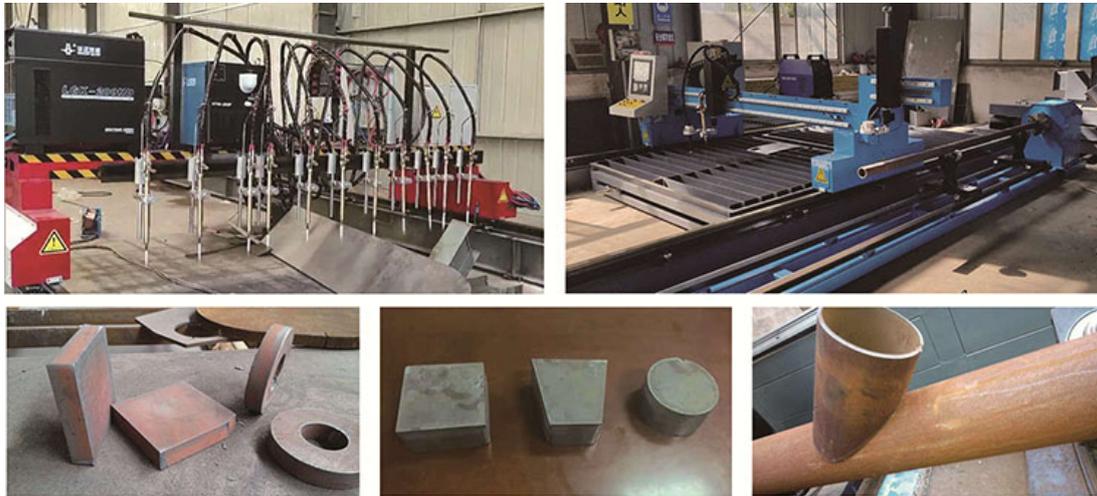
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7-Starcam software

8-High precision Square guide rail

9-Rack and Gear transport system

10-Multi-function tool box



## **Advantage of Industrial Gantry CNC Plasma Cutting Machine**

1--The painting: all our machine body have been processed by professional anti-rust treatment. First, we spray 2 times anti-rust paint to ensure that all parts of the machine in a fully protected state, and then spray color. This can effectively prevent the machine rust, resulting in damage to the machine. Other manufacturers do not take anti-rust treatment or only spray 1 time rust paint.

2-Software: our software have self-adjust function. That means, when you put the metal sheets slide, the software will adjust the cutting according to metal sheets direction, so that it will protect the metal sheets and good cutting results. Especially when cut large or expensive metal sheets, this will preventing big loss.

3-Our machine support many languages, like English, Russia, Spanish etc. Then the clients can operate the machine more convenient.

4-When cutting many drawings, our software can automatically sort and achieve best combination, so that the machine can cut all drawings in shortest time.

5-We use super soft shielded cable to ensure that the plasma power supply does not affect the motor during working.

6-Just because our machine all equipped the professional parts, and test more seriously for the whole machine, so our guarantee period it is 2 years.

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## Product Parameter (Specification)

The basic configuration

The serial number	The project name	The number of	Instructions
1	Cutting way		Plasma/flame
2	Guide spacing		3000/4000/6000mm (customizable)
3	Guide rail length		custom
4	Transversely moving body		JL2021 lifting body
5	Automatic programming nesting software	1 set of	Nest smart nesting
7	Arc pressure heightening device		Shanghai Jiaotong University F1621
8	system	1 set of	Shanghai Jiaotong University F2300B
9	System cabinet	1 set of	custom
10	Servo motor	Three groups	Taiwan Delta Y-axis 750W X-axis: 400W
11	reducer	3 sets of	Han, 80-40
12	hang	1 set of	Contains 10 small pulleys
13	To track		24KG (2 m/root)
14	Lateral drive system	1 set of	Precision rack and pinion single spindle core guide rail
15	Horizontal drag chain	1 set of	35 x100 bridge type
16	Lifting body towing chain	1 set of	35 x100 bridge type
17	Plasma fixture		
18	Anti-collision device	1 set of	
19	Steel belt drive	1 set of	

Technical indicators

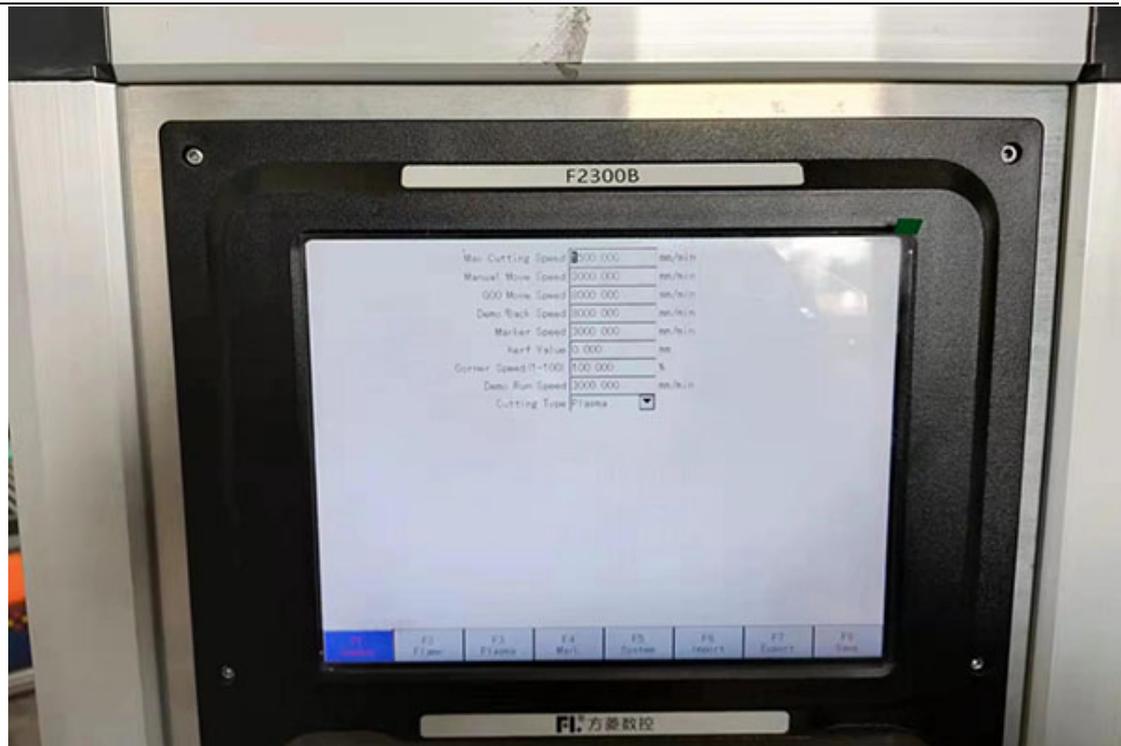
The serial number	The project name	Indicators
1	Effective cutting width	Or less
2	Effective cutting length	Or less
3	Idle travel speed	0-12000mm/min
4	Plasma cutting material	Carbon steel, stainless steel
5	Plasma cutting thickness	Or less
6	Plasma perforation thickness	Carbon steel or less
7	Plasma cutting speed	0-6000mm/min
8	Plasma cutting torch lifting distance	250 mm or less
9	Plasma cutting torch lifting mode	Automatic rise and fall of arc voltage
10	Side straightness of dominant rail	0.4 mm / 10000 mm
11	Side straightness of auxiliary guide rail	1mm/20000mm
12	Parallelism of longitudinal plane and horizontal plane of main and auxiliary guide rail	+ / - 0.2 mm / 1000 mm
13	Cutting torch lifting verticality tolerance	+ / - 0.2 mm
14	Intersection offset allowance	+ / - 0.5 mm
15	Tolerance of straightness	+ / - 0.2 mm
16	Roundness tolerance	+ / - 0.5 mm
17	Diagonal tolerance	+ / - 0.5 mm
18	Plasma cutting acceptance criteria	Conformity with JB/T10045.4-1999
19	Machine accuracy acceptance standard	Conformity with JB/T5102-1999

## Industrial Gantry CNC Plasma Cutting Machine Details



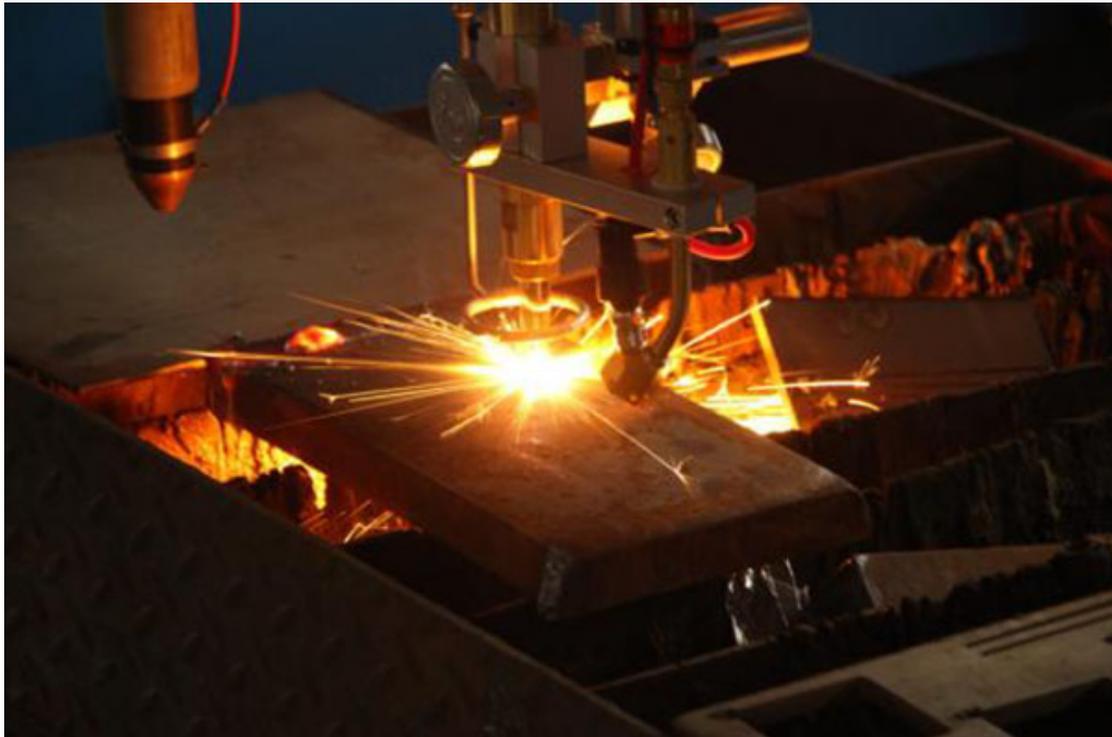
### Torch Height Controller

It is for controlling position of the torch relative to the material being cut. The torch height control uses arc voltage to maintain a consistent distance from the plate while the torch is cutting.



Shanghai FangLing 2300B control system

The control system has a graphic display function, which can observe the cutting process in real time. And supports 9 languages, it is easier to use your own native language to operate. With power-off memory function, you can continue cutting after the power on, saving time for cutting from the beginning. There are 48 kinds of graphics, regular graphics can be directly used, change the size, set the quantity, save the computer drawing time and improve efficiency.



Switch cutting mode immediately

When using multiple lifting bodies, connect them with stainless steel belts to adjust the distance between the two lifting bodies and make the cutting mode change quickly.



Fastcam Software

Some Standard patterns included and Auto Nesting to save more materials

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High Quality Domestic HUAYUAN Plasma Source

High efficiency plasma generator result high precision and efficient cutting performance.



Electrode and Nozzel

We suggested to buy extra sets of electrode and nozzle as spare parts(The price is \$5/set, includes 1pc nozzle and 1pc electrode, You can buy extra 20~30sets as a standby)

## Applicable Industry and Materials

CNC Plasma Sheet Metal Cutting Machine is suitable for all kinds of sheet metal materials such as steel, copper, aluminum and stainless steel can be processed. It is used for aluminum plate, stainless steel, galvanized sheet, white steel plate, titanium plates, and so on like the sheet metal.



## Package and Delivery for Plasma Cutting Machine

SUNNA INTL has been cooperating with several big transport agents and shipping companies for long terms, and all machines are packed with standard plywood case for export, it can be transported to you safety as soon as possible.



## International Shipping Term

All the CNC machines can be shipped worldwide by sea, by air or by international express logistics via DHL, FEDEX, UPS. You are welcome to get a free quotation by filling up the form with name, email, detailed address, product and requirements, we will shortly contact you with the full information including the most suitable delivery method (fast, secure, discreet) and freight.

## Sunna CNC Plasma Cutting Machine After Services

### 1. Mature service:

Pre-Sales Service: Inquiry and consulting support, Free making samples support, View our Factory. After-Sales Service : 24 hour technical support by email , telephone or online video , User friendly English manual for machine using and maintaining, Training how to install the machine and use the machine, Engineers available to service machinery overseas.

2. large machine factory and large quantity producing ability, which can satisfy clients' large order in short time.

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3. We adopt the strength export wooden case, for shipping. It is efficiently protect the machine in good situation after long term transportation.
4. Customers don't have to worry about installation, we provide foundation drawings for free.
5. We have details video can show every part of the operation, so after you getting the machine ,and operate in time, and we can also totally according your requirement to do the video only for your job

SUNNA takes all aspects of security training very seriously to ensure that you fully understand how to use the machine safely. For all our customers, we offer life-long email and telephone technical support. The service is completely free and is available from 09:00 to 17:00 Monday to Friday. Whether you're having problems with your machine, having trouble converting your files to the proper format, or want some advice on how best to deal with some material you haven't used before, we're here to help.