



**Jinan**  
**HUAXIA**  
Machinery Equipment Co.,Ltd.

**济南华夏机械设备有限公司**  
Jinan Huaxia Machinery Equipment Co.,Ltd.

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***SELECTION GUIDE***



## COMPANY INTRODUCTION

Jinan Huaxia Machinery Equipment Co., Ltd. is located in the historic and cultural city of Jinan Springs --- China's largest production base of CNC machinery. The main products are included gantry CNC flame cutting machines, gantry CNC plasma cutting machine, desktop CNC plasma cutting machine, desktop CNC flame cutting machine, advertising CNC plasma cutting machine, professional ductwork CNC plasma cutting machine, portable CNC flame cutting machines, portable CNC plasma cutting machines and other types of CNC equipment.

Company R & D, design, manufacture and sales of integrated CNC equipment, has a loyal and stable, skilled development, manufacture, testing teams, in strict accordance with the ISO9001 quality system standard design, development, production and aftersale tracking services, to participate in relevant national standards consulting, research and develop some products won the national title of outstanding technology patents.

Our company was founded ten years ago, and always adhere to the "technological leadership" and "integrity first" and "service first" development road, selling products throughout the china market and all over the world.

Our company not only have excellent technical personnel, and to keep injecting new world technology to synchronize development and application of new products to ensure the advanced technology and products to meet user's different requirements.

Customer needs is our goal. Our high-quality products, competitive prices, ready to provide you with excellent service.

We focus on technological progress, technological innovation, and the introduction of talent, the introduction of high-tech product design and development and production. Our strong technical force, advanced process control tight, rich expertise and new technology, and constantly develop new products, improve product quality. Can produce various sizes of CNC cutting machine according to customer requirements.

Our strong technical force, advanced process control tight, rich expertise and new technology, and constantly develop new products, improve product quality. Can produce various sizes of CNC cutting machine according to customer requirements. We rigorous design tools, rich manufacturing experience, perfect quality assurance system, and good after-sales service and dedication to our customers.

We determined to establish a better corporate image and dedication to our customers and friends at home and abroad to conduct extensive economic exchanges and cooperation, create brilliant, ushering in a more beautiful future!

All my colleagues are determined to "high-quality products and services" with customers to achieve a win-win and common development with the times, providing our customers with high-quality pre-sales, after-sales service.

Warmly welcome new and old customer to visit our factory!

Fit for thin metal cutting with good cutting effect, such as atrs goods,kitchen ware..

key point: best cutting effect buy expensive

## Fiber Laser Cutting Machine



Fiber laser cutting machine adopts imported the most advanced fiber laser output of high energy density of the laser beam and focusing on the surface of the workpiece, workpiece is ultrafine focus facula illumination of regional instantaneous melting and vaporization, Automatic cutting system moves through CNC machinery spot irradiation position. It is a high-tech equipment which integrated the most advanced Optical fiber technic, CNC technic and precision machinery technic .

- High rigidity of the machine tool bed, exclusive high temperature control standard furnaces annealing treatment, can guarantee the precision of the machine tool is stable for a long time does not change.
- Imported original fiber laser generator with good beam quality, stable performance, no reflector lens, no need to adjust the optical path, basic maintenance free, service life can reach more than 10 hours;
- Fiber laser with high Electro-optical conversion efficiency, conversion efficiency of 30%, the power consumption can be saved greatly when working.
- Adopts imported original guiding drive and servo motor, high precision, high speed;
- Supported all kinds of graphic format or text instant cutting, simple operation, flexible and convenient.
- Beautiful, smooth cutting edge,without deformation;
- Low energy consumption, energy saving and environmental protection, low power consumption, the power consumption is VAG with the power consumption of 1/3-1/5, cutting speed of YAG is more than three times;
- Without working gas lasers, air available for sheet cutting ;
- Fast cutting speed, low operation cost,investment recovery quickly.

### Application area

sheet metal cutting, pipe (needs to add another tube cutting device):stainless steel, carbon steel, galvanized sheet, electrolytic plate, brass, aluminum steel, manganese, all kinds of alloy plate,rapid processing and so on.

### Widely used in

Electrical power, auto parts, mechanical equipment, electrical equipment, hotel kitchen equipment, elevator equipment, advertising decoration, car decoration, sheet metal chassis cabinets, hardware, lighting, display equipment, precision parts, all kinds of metal cutting industry etc.

### Main technical parameters

Model	CN-3015-500W	CN-3015-1000W	CN-3015-1500W
Laser type	Fiber laser		
Laser power	500W	1000W	1500W
Machine power	≤8KW	≤12KW	≤15KW
Laser wavelength	1070-1080nm		
Working area	3000mm×1500mm		
X axis stroke	1530mm		
Y axis stroke	3050mm		
Z axis stroke	80mm		
Cutting speed	Depends on the materials and its thickness		
Repeated positioning accuracy	±0.02mm		
Cooling type	Water cooling		
Aiming and positioning	Red light		
Voltage	3 phase 380V/50Hz/60A		
Machine occupy space	About 9000×5000MM(1500×3000mm)		

Model	MK3015F-500W	MK3015F-1000W	MK3015F-1500W
Laser type	Fiber laser		
Laser power	500W	1000W	1500W
Machine power	≤8KW	≤12KW	≤15KW
Laser wavelength	1070-1080nm		
Working area	3000mm×1500mm		
X axis stroke	1530mm		
Y axis stroke	3050mm		
Z axis stroke	80mm		
Cutting speed	Depends on the materials and its thickness		
Repeated positioning accuracy	±0.02mm		
Cooling type	Water cooling		
Aiming and positioning	Red light		
Voltage	3 phase 380V/50Hz/60A		

### Cutting site and sample



## Gantry CNC Flame Cutting Machine



### The main technical parameters

Model	CN-3000	CN-4000	CN-5000	CN-6000	CN-7000
Guide length(mm)	3000	4000	5000	6000	7000
Working width(mm)	2200	3200	4200	5200	6200
Control system	SHANGHAI FLMC-F2300A/BEIJING STARFIRE or customed				
Flame cutting torch	The special NC flame cutting torch				
Plasma power supply	According to the customer requirement				
Torch distance(mm)	200				
Travelling speed (mm/min)	0-10000				
Cutting speed(mm/min)	0-6000				
Flame cutting thickness(mm)	5-300				
Plasma cutting thickness(mm)	According to the plasma power				
Gas type	Acetylene, propane or natural gas				
Cutting Table and Base	We will supply darwing of cutting table		Base (H-beam )and cutting table are not supplied		

### Equipment introduction

- Gantry type CNC flame cutting machine can equip with different plasma flame more cutting torch according to customer different configuration.
- CNC flame / plasma cutting machine is a kind of high efficiency, energy saving cutting equipment. Precision cutting work is suitable for all kinds of thickness of carbon steel, stainless steel and non-ferrous metal plate blanking, improving utilization of material, saving time and material. CNC flame cutting machine can max cut 5 - 300mm thickness with of high quality for carbon steel material.
- Gantry type beam, it's bearing capacity is good, suitable for wide span, effective bilateral drive, compact structure, whole temper, sufficient to eliminate welding stress, stable and reliable performance.
- The X axis guide rail with domestic or imported linear guide rail, high precision, good guide. The Y axis guide rail adopts traits, the surface by grinding processing, has the very high mechanical precision and wear resistance.
- The driving rack , gear by the professional manufacturer of custom, it's surface carburizing and quenching, high precision. The X and Y axis transmission adopts Germany NEUGART high precision, high torque, low backlash, maintenance free planetary gear reducer.
- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan -- Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time;
- Lower body is made of aluminum alloy structure, lifting guide adopts the linear guide rail with ball screw lifting;
- Automatic programming system is simple and easy to use.
- Control system adopts currently the most excellent stability and strong anti-interference ability.
- Multi configuration cutting usage, the cutting tool by configuring different, different cutting torch system can meet all kinds of fire, powder spraying, plasma processing applications.
- The system is divided into gas control panel and the gas path distribution system, production of professional manufacturers. Equipped with automatic ignition device, a backfire preventing device, safety and stability.
- According to the requirements can be equipped with various kinds of imported or domestic plasma cutting, for different metal materials.
- Add other special function according to special requirement .

### Cutting site and sample



## Industrial Bench CNC Plasma Cutting Machine



### The main technical parameters

Model	1325	1330	1340	1530	1540	1580
Cutting width(mm)	1300	1300	1300	1500	1500	1500
Cutting length(mm)	2500	3000	4000	3000	4000	6000
Control system	Shanghai FLMC-F2300B/Beijing STARFIRE/START or Customized					
Cutting thickness	According to the plasma power supply					
Travelling speed(mm/min)	20000					
Cutting speed(mm/min)	According to the material thickness					
Cutting table	Remove dust					

### Equipment introduction

- Table type CNC plasma cutting machine is a precision mechanical transmission device with thermal cutting technology combined with a high efficiency, high precision, high reliability. With inimitable man-machine interface, operation is simple and easy, can cut out various shapes of complex sheet metal quickly and accurately, especially suitable for automatically, thin steel non-ferrous metals, stainless steel and carbon steel plate cutting. It adopts an integrated modular design, quick installation, convenient movement.
- The whole bed adopts steel structure welding after finishing, whole temper, sufficient to eliminate welding stress, stable and reliable performance. The beam and the end beam used aluminum after finishing, good movement performance. Y axis with bilateral synchronous drive system. To ensure the machine speed and accuracy.
- X and Y axis guide rail with domestic or imported linear guide rail, high precision, good guide. Drive rack, gear by the professional manufacturer of custom, The surface carburizing and quenching, high precision.
- LCD screen, all of the use of Chinese /english characters display. Below the display show the operation method at any time, so the operator only needs simple training, the operation can be carried out, using very easy to understand.
- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan -- Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time;
- The machine has a smoke dust removal device and exhaust type unique cutting worktable and the slag storage device, to create a good working environment.
- With high response sensitivity torch height control, it can adjust automatically choose the best cutting distance, in order to ensure the accuracy of the work piece cutting effect.
- According to user requirements can be equipped with a variety of plasma cutting power supply, to meet the different metal materials.

### Cutting site and sample



## CNC Plasma Cutting Machine For Sheet (Duct)



### The main technical parameters

Model	1325	1330	1340	1530	1540	1560
Cutting width(mm)	1300	1300	1300	1500	1500	1500
Cutting length(mm)	2500	3000	4000	3000	4000	6000
Control system	SHANGHAI FLMC-F2300A/BEIJING STARFIRE or customed					
Cutting thickness	According to the plasma power					
Travelling speed (mm/min)	20000					
Cutting speed (mm/min)	According to the material thickness					
Cutting table	Remove dust					

### Equipment introduction

- HVAC CNC plasma cutting machine is a precision mechanical transmission device with thermal cutting technology combined with a high efficiency, high precision, high reliability. With inimitable man-machine interface, operation is simple and easy, can cut out various shapes of complex sheet metal quickly and accurately, especially suitable for automatically, thin steel non-ferrous metals, stainless steel and carbon steel plate cutting. It adopts an integrated modular design, quick installation, convenient movement.
- The whole bed adopts steel structure welding after finishing, whole temper, sufficient to eliminate welding stress, stable and reliable performance. The beam and the end beam used aluminum after finishing, good movement performance. Y axis with bilateral synchronous drive system. To ensure the machine speed and accuracy.
- X and Y axis guide rail with domestic or imported linear guide rail, high precision, good guide. Drive rack, gear by the professional manufacturer of custom, The surface carburizing and quenching, high precision.
- LCD screen, all of the use of Chinese /english characters display. Below the display show the operation method at any time, so the operator only needs simple training, the operation can be carried out, using very easy to understand.
- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan -- Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time;
- The machine has a smoke dust removal device and exhaust type unique cutting worktable and the slag storage device, to create a good working environment.
- The CAMduct software is easy operating. Just follow the simple steps, select the desired graphics, input parameter values, and then the geometry has formed components, preparation process.
- Professional parameters graphic database. Easy to master. Users only need to select the component, the value of the input parameter, the software will automatically manufactured parts.
- Convenient cutting any diameter map, only need to input a few dimensions, can cut all the variable diameter pipeline map.
- Support CAD, CAXA any graph software.

### Cutting site and sample



**Advantage:** with Lenovo Computer,  
1) can make design drawing at factory ,at work shop..  
2) can change design at any time,

## Computer Control CNC Plasma Cutting Machine



### The main technical parameters

Model	1325	1330	1340	1530	1540	1560
Cutting width(mm)	1300	1300	1300	1500	1500	1500
Cutting length(mm)	2500	3000	4000	3000	4000	6000
Control system	SHANGHAI FLMC-F2300A/BEIJING STARFIRE or customed					
Cutting thickness	According to the plasma power					
Travelling speed(mm/min)	20000					
Cutting speed(mm/min)	According to the material thickness					
Cutting table	Remove dust					

### Equipment introduction

- CNC plasma cutting machine is a precision mechanical transmission device with thermal cutting technology combined with a high efficiency, high precision, high reliability. With inimitable man-machine interface, operation is simple and easy , can cut out various shapes of complex sheet metal quickly and accurately, especially suitable for automatically, thin steel non-ferrous metals, stainless steel and carbon steel plate cutting. It adopts an integrated modular design, quick installation, convenient movement.
- The whole bed adopts steel structure welding after finishing, whole temper, sufficient to eliminate welding stress, stable and reliable performance. The beam and the end beam used aluminum after finishing, good movement performance. Y axis with bilateral synchronous drive system. To ensure the machine speed and accuracy.
- X and Y axis guide rail with domestic or imported linear guide rail, high precision, good guide. Drive rack, gear by the professional manufacturer of custom, The surface carburizing and quenching, high precision.
- LCD screen, all of the use of Chinese /english characters display. Below the display show the operation method at any time, so the operator only needs simple training, the operation can be carried out, using very easy to understand.
- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan -- Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time;
- The machine has a smoke dust removal device and exhaust type unique cutting worktable and the slag storage device, to create a good working environment.
- The CAMduct software is easy operating . Just follow the simple steps, select the desired graphics, input parameter values, and then the geometry has formed components, preparation process.
- Professional parameters graphic database. Easy to master. Users only need to select the component, the value of the input parameter, the software will automatically manufactured parts.
- Convenient cutting any diameter map, only need to input a few dimensions, can cut all the variable diameter pipeline map.
- Support CAD, CAXA any graph software.

### Cutting site and sample



## CNC Drilling and Cutting Integrated Machine



### Technical parameters

Model	1325	1530	1840	3060	4080
Cutting width(mm)	1000	12000	1500	3000	1500
Cutting length(mm)	2000	2500	3000	Arbitrarily	Arbitrarily
Control system	SHANGHAI FLMC-F2300A/BEIJING STARFIRE				
Cutting thickness	Flame 5-200mm,plasma according to the power supply				
Drill thickness	1-200mm				
Travelling speed(mm/min)	8000				
Cutting speed(mm/min)	According to the material thickness				

### Equipment introduction

- CNC drilling cutting machine, can solve the difficulties of machining small after cutting steel panel, economic benefits, energy saving and environmental protection, and can greatly improve the working efficiency and reduce the processing cost, and have the ability of the composite processing, to effectively exert the efficiency of equipment.
- CNC plasma and pipe cutting machine is a precision mechanical transmission device with thermal cutting technology combined with a high efficiency, high precision, high reliability. With inimitable man-machine interface, operation is simple and easy, can cut out various shapes of complex sheet metal quickly and accurately, especially suitable for automatically, thin steel non-ferrous metals, stainless steel and carbon steel plate cutting. It adopts an integrated modular design, quick installation, convenient movement.
- X and Y axis guide rail with domestic or imported linear guide rail, high precision, good guide. Drive rack, gear by the professional manufacturer of custom, The surface carburizing and quenching, high precision.
- LCD screen, all of the use of Chinese /english characters display. Below the display show the operation method at any time, so the operator only needs simple training, the operation can be carried out, using very easy to understand.
- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan -- Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time.
- The machine has a smoke dust removal device and exhaust type unique cutting worktable and the slag storage device, to create a good working environment.
- This equipment is a combination function machine with drill hole (arc) and steel plate cutting, it's feature is to solve the larger or different workpiece after plasma or flame cuttin, can process 2-15mm diameter holes (plasma cutting can't finish), below 5mm thin steel plate can be both drilling and normal cutting molding processing. More than 6mm thick plate drill center can be both drilling and normal cutting molding processing.
- Special drilling head can working for diameter 1mm-30mm steel plate, and then for plasma cutting or flame cutting. Drilling later again for plasma cutting workpiece.

### Cutting site and sample





## CNC Plasma Tube Plate Integrated Cutting Machine



### The main technical parameters

1	cutting graphics	All kinds of plane figure
2	cutting speed	0-4000mm/min
3	round tube speed	0-4000mm/min
4	Cutting method	Plasma /flame
5	Cutting area	X:1500mm,Y:2500mm/3000mm
6	Cutting thickness	Flame:6-200mm, Plasma:1.5-20mm(according to the plasma power supply)
7	Thickness of circular tube	Flame:6-80mm, Plasma:1-20mm(according to the plasma power supply)
8	Max tube diameter	0-250mm(can be customized)
9	Cutting length	According to different machine size
10	cutting precision	±0.5mm
11	NC programming	Support AUTOCAD/TYPE3/CAXA/SOLIDWORKS etc.
12	file transfer	U disk
13	power supply voltage	220V 50HZ /plasma:380V
14	work environment temperature	Temperature:-10°C to +60°C ,relative humidity:0-95%No condensation

### Equipment introduction

Plate and pipe CNC plasma cutting machine can used for tube plate of carbon steel, stainless steel, copper, aluminum and other metal plane graph cut, also can be used for circular tube cut, can cut all kinds of graphics on the circular pipe .

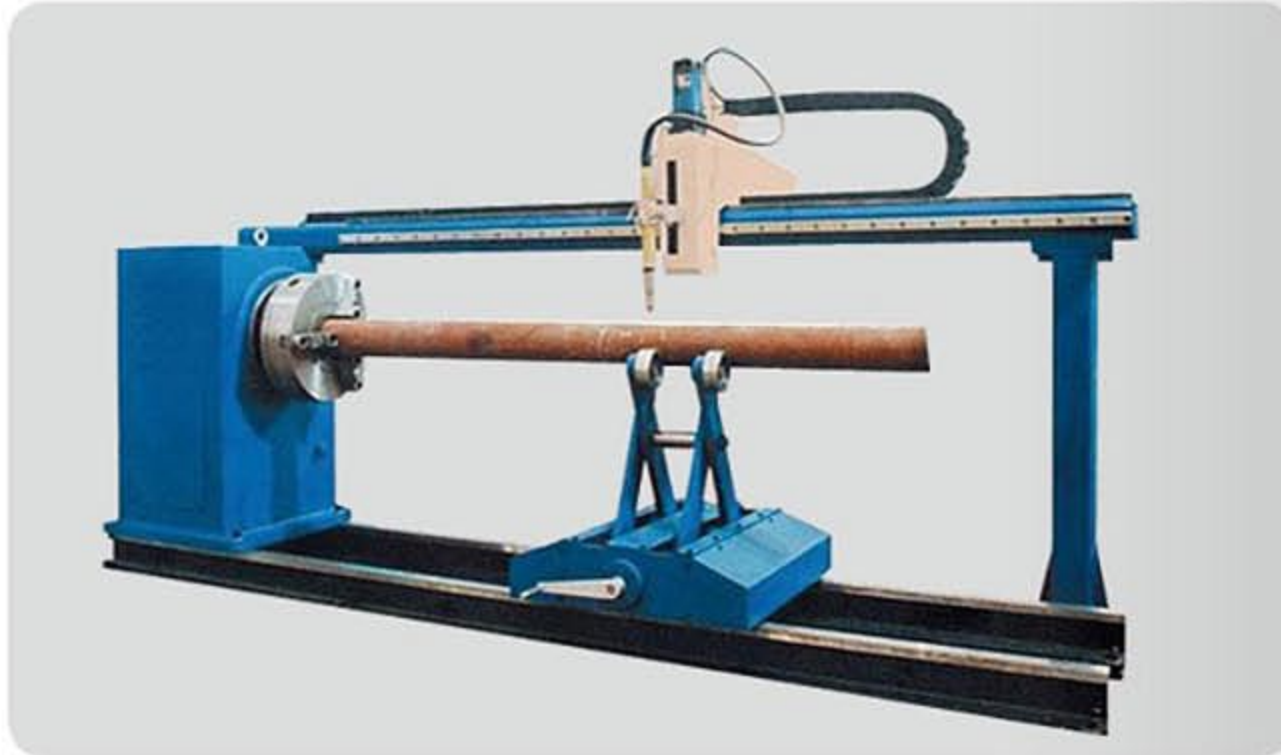
With a high degree of automation, high precision, fast cutting speed, good cutting effect, low cost, widely used in petroleum, chemical, lighting, machinery, pressure vessels, aerospace etc..

- CNC plasma and pipe cutting machine is a precision mechanical transmission device with thermal cutting technology combined with a high efficiency, high precision, high reliability. With inimitable man-machine interface, operation is simple and easy , can cut out various shapes of complex sheet metal quickly and accurately, especially suitable for automatically, thin steel non-ferrous metals, stainless steel and carbon steel plate cutting. It adopts an integrated modular design, quick installation, convenient movement.
- The whole bed adopts steel structure welding after finishing, whole temper, sufficient to eliminate welding stress, stable and reliable performance. The beam and the end beam used aluminum after finishing, good movement performance. Y axis with bilateral synchronous drive system. To ensure the machine speed and accuracy.
- X and Y axis guide rail with domestic or imported linear guide rail, high precision, good guide. Drive rack, gear by the professional manufacturer of custom, The surface carburizing and quenching, high precision.
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- The drive system can choose servo drive or stepping driving, according to the requirement of customers can choose the world's top brand from Japan – Panasonic AC servo or stepper motor drive, can be more stable running speed, a wider range of speed transmission, short acceleration time;
- The machine has a smoke dust removal device and exhaust type unique cutting worktable and the slag storage device, to create a good working environment.
- With high response sensitivity torch height control,it can adjust automatically choose the best cutting distance, in order to ensure the accuracy of the work piece cutting effect .
- According to user requirements can be equipped with a variety of plasma cutting power supply, to meet the different metal materials.

### Cutting site and sample



## CNC Plasma Circular Tube Cutting Machine



### The main technical parameters

Item	Parameter
Working Area	6000mm
Pipe Diameter	50-800mm
Processing Material	Round pipe
Cutting Thickness	0.2-20mm
Cutting Speed	0-10000mm/min
Power	8.5kw
Voltage	3phase 380v
Supply Frequency	50Hz
Plasma Power	Imported or China
USB Interface	USB interface
Working Way	Untouched arc striking

### Equipment introduction

- CNC Round pipe plasma cutting machine is one type of High efficiency, high precision and high reliability mechanical transmission and thermal cutting technology combined cutting machine. Good man-machine control panel makes operation more convenient and simple, can cut kinds of complex shapes' metal sheet. It specialized in cutting thin and middle thin non ferrous metal plate, stainless steel, carbon steel with automatic. It adopts Integral modularization design, easy to operate and move convenient.
- The machine whole lathe adopt steel welding steel structure to process, temper in bulk, eliminate welding stress with fully. All the gantry adopt cast-aluminum with high precision motion, and the longitudinal adopt bilateral synchronous drive system. To make sure the working speed and accuracy.
- The liner rails are imported or Chinese with high precision, good guide. Rack gear manufactured by professional factory. Surface carburizing and quenching.
- LED Operate panel, it can prompt kinds of operate ways, so operator can operate it easily after simple training.
- Driving system is servo or stepper drive, you can choose Japan Panasonic servo motor or stepper motor, to make sure whole machine can run with smoothly, a wider speed range, short acceleration time.
- The machine has unique smoke and dust removing device, an air exhaust type cutting worktable and the slag storage device, create a good working environment.
- Torch height controller can adjust the best cutting distance with automatic to confirm workpiece high precision cutting.
- Regarding metal thickness to choose different plasma power source to meet customers' requirements.

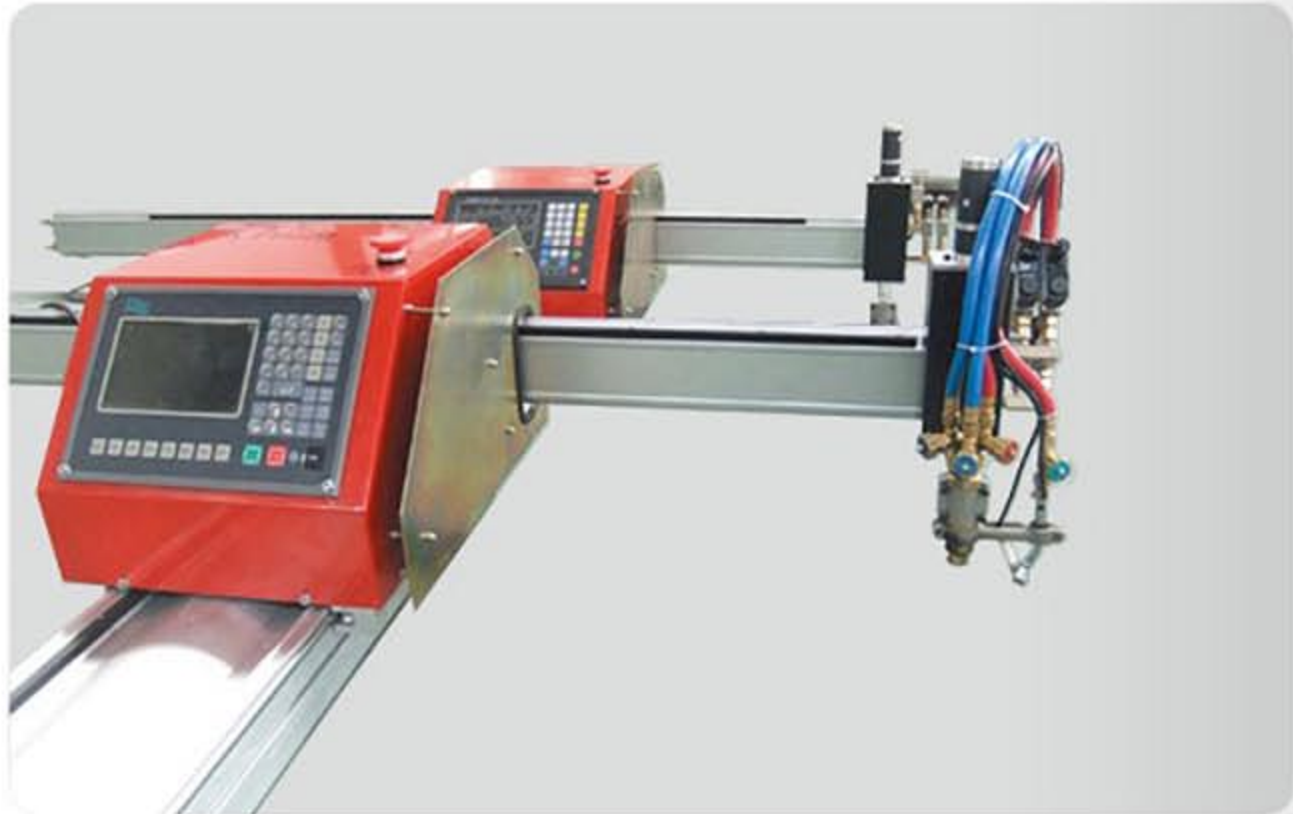
### Cutting site and sample



**.Advantage:**

- 1) Cheap!! same function with table type machine
- 2) Convenience! can be moving to any where, flexible

## Portable CNC Flame Cutting Machine



### The main technical parameters

Model	1020	1225	1530
Cutting width(mm)	1000	1200	1500
Cutting length(mm)	2000	2500	3000
Control system	SHANGHAI FLMC-F2300A/BEIJING STARFIRE		
Cutting thickness	Flame cutting 5-200mm, Plasma cutting depend on plasma power		
Travelling speed(mm/min)	8000		
Cutting speed(mm/min)	Depend on the thickness of the board		

### Equipment introduction

- Portable CNC Flame Cutting Machine, can cut any plane complex graphics, it can support flame, plasma cutting. Reduction of the secondary processing, improve production efficiency.
- This product is reasonable institutions, small size, light weight, can move freely, it don't occupy a fixed space, suitable for indoor and outdoor cutting. The cutting software supports drawing, nesting. easy to learn.
- This product is suitable for large, medium and small factories, widely used in automotive, shipbuilding, construction machinery and other professionals, suitable for carbon steel(flame), stainless steel and non-ferrous metal cutting (plasma) cutting.
- It can converted the CAD drawings or Computer graphics rendering is converted to G code file , and save it into the U disk, then connect the cutting machine, the system will automatically be converted to cut the G code program.
- This product is equipped with a USB interface for easy program transfer. Set the kerf compensation value in nesting software.

### Cutting site and sample



## Optional Accessories



20 square rail



20 round rail



High precision rack gear



China HUAYUA Power source



USA Hyperterm power source



Automatic torch height controller



FLMC-F2300A Ccontrol system



STARFIRE Control system



NC-Studio Control system



DSP Control system



Cylinder torch



THC Torch

## HIGH MACHINE QUALITY AND TIMELY DELIVERY IS OUR MARKING CONCEPT.

- All the machine is properly tested before delivery , when you receive it, it can work directly after connect power supply.
- The machine is easy to operate ,we will supply operation videos and manual ,but if you need , our professional technician will go to your factory for training Of course ,welcome to our factory for learning installation and operation, our professional technician will together with you ,all the problems will be solved on spot at first time.
- The machine made by all the high quality parts by our professional technicians, and we will supply some suggestion and solution for maintain repair to ensure the machine long time working life.but meanwhile ,we also have enough stock of all the parts , for some urgent need .
- All the questions , we will give you feedback within 24 hours ,and you will also get technical support and service all the lifetime