

**PERFECT LASER**

# **CNC Flat-bed Plasma Cutting Machine**

(Model: PE-CUT-A1)



1) Advertising Portable Cnc Plasma Cutting Machine adopt bench-gantry structure, welding after the vibration aging treatment to eliminate stress, so that in the long-term use of no deformation

2)All mechanical drive system using rolling bearings and precision machining accuracy as 6 GB of precision gears mesh with the rack

3)Planetary reduce drive system, its input and output error of only 16 arc minutes, at the same time, in the horizontal and vertical structure of the gear drive, an increase of automatic clearance compensation device so that it can accurately drive the structure of the implementation of the directives issued by the CNC.

4) Take the initiative to end beam: vertical track for the introduction of automatic clamping device-oriented structure and there is no eccentric clamping structure, relying on automatic detachable power-oriented structure to make it two. In the track combined with the smooth running of the department will not have a wheel clamp tight or lax-phenomenon

## Application

CNC plasma cutting machine is automatic and high efficiency cutting equipment. It is widely used in all kinds of carbon materials cutting, mild steel materials cutting and nonferrous metal precision sheet metal cutting.











## Details Instructions

**1.**

### Cutting head

- 1.Adjust the distance automatically as the different materials
- 2.Can sensor automatically surface

**2.**

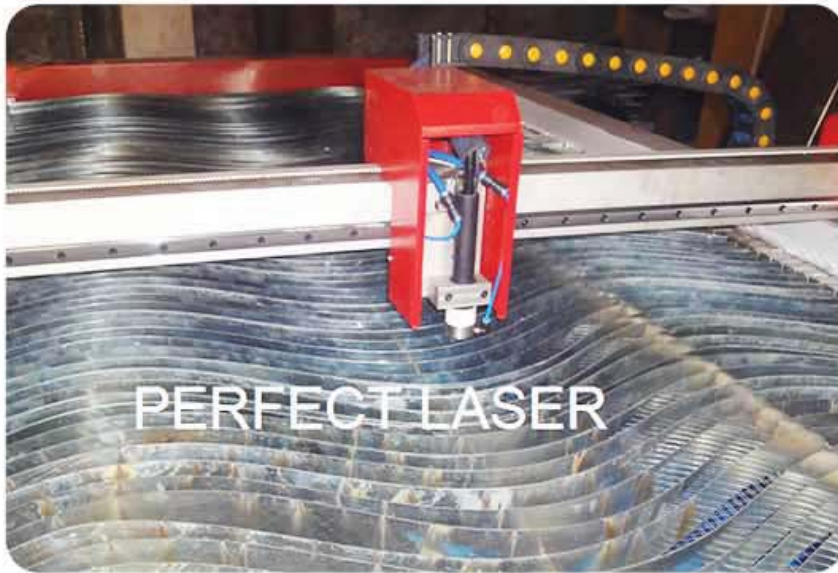
### Lathe bed of plasma cutting machines

- 1.Roof model, customer can easily pick up the cutting plates.
- 2.Arching steel blades table, can make the table smoother and stabler.

**3.**

### Plasma rail

- 1.X-axis :circular orbit and helical components with fast speed, high precision
- 2.Y-axis: aluminum, round rail, slider, helical components with stable, accurate and fast cutting



**4.**

### Round rail and Slant rack

Diameter of 2CM aluminum circular orbit  
Higher accuracy and wear resistance



**5.**

### Chain

Protect the chamber wires of X axis, motor wire,  
height-adjusting case motor wire, limit-switch wire and  
control wires

Make sure the stable performance





**1.**

### Computer Control

1. Industrial computer
2. Including advanced Ncstudio Control System



**2.**

### Inside Circuit

1. Two units drivers and three units power supply
2. Chinese top brand Step driver



**3.**

### Magnetic Valve

1. Adopt Germany technology with stable performance
2. Made of copper alloy, long lifespan
3. Aging resistance, corrosion resistance, Water vapor resistance



4.

### Auto Water Slot Cooling System

1. Made of stainless steel, Anti-rust stain
2. Professional drainage system for waste water when cutting



5.

### Pressure Reducing Valve

1. Adopt Germany Technology with high sensitivity
2. Durable with metal cover to protect inner instructure



6.

### Heat Exhaust Fan Design

- Ensure the control cabinet air circulation
- Make the machine long life span



## Control section



Parameters \ Model	LG-30E	LG-40E	LG-60E	LG-80E	LG-100E	LG-125E	LG-160E	LG-200E
Input Voltage	Single-phase 220V ± 10%;50/60Hz		Three-phase 380V ± 10%;50/60Hz					
Rated input capacity (KW)	4.5	6	8.8	13	17	19	28	32
Output current range (A)	15-30A	15-40A	20-60A	20-80A	20-100A	20-125A	40-160A	40-200A
Rated duty cycle Rate (X%)	60%						<b>PERFECT LASER</b> <a href="http://www.perfect-laser.com">www.perfect-laser.com</a>	
Maximum cutting thickness (mm)	8	12	25	32	35	42	50	65
Rated no-load voltage (V)	220V		185V	200V			280V	

voltage of power	220V±10%
frequency of power	50Hz±1%
input power	1000W
environment temperature	0-50°C
relative humidity	95% (not coagulate)
purity of oxygen	99.5%
pre-fire	3.92×10 <sup>5</sup> Par
cutting oxygen	8×10 <sup>5</sup> Par
acetylene	0.49×10 <sup>5</sup> Par

## Optional Items






Brands for Options:

1. USA Hypertherm
2. USA Thermal Dynamics
3. Some China top brands

USA	USA	Germany
<b>Hypertherm</b>	<b>THERMAL DYNAMICS</b>	
		



Model	PE-CUT-A1 Light Structure	PE-CUT-A2 Heavy Loading Structure
Type	Common Advertising Type	Heavy Industrial Type, including Control Cabinet, Thicken machine body
Control Method	Use extra PC to control	Already including PC inside, just use LCD screen to control the machine
Usage	Used in some light and common industry	Can be used both in light and heavy industry
Cutting thickness	0.5-5mm	1-20mm
Working material	Iron, Steel, Aluminum sheets, Galvanized sheets, Titanium Plates	
Cutting Speed	0-6000mm/min	
Plasma Current	PERFECT LASER www.perfect-laser.com	60A
Connecting Way	USB	
Cooling method	With water pump and tank provide circulating water cooling	
Rail guide	Precision work round	
Transmit way	Taiwan imported ball screw	
Power Supply	Standard Item: 60A Chinese top brand Plasma Power Supply (already including) Optional Item: 60A USA Hypertherm or USA Thermal Dynamics	
Spare parts	Electrode, Electricity nozzle and Water jacket	

Name	Quantity for one year	Picture
10 Cutting nozzle	50pcs	
11 Electrode	10pcs	
12 Water jacket	50pcs	
13 Swirl Ring	10pcs	
14 Shield	50pcs	



### Software

Advanced Ncstudio Control System  
Adopt Auto Height Adjusted Function  
Promote Stability  
Improve Work Efficiency

**Professional Export Stable Wood Craft Case.  
Machine Package: 2.08\*1.33\*2m 320kg**



- \* 12 Months Guarantee
- \* 5-7 Days Lead Time
- \* VCD Training , Easy Installation
- \* 12 Hours Response
- \* TT/Western Union / Paypal / Ali Trade Assurance Payment
- \* Sea Shipping

## FAQ

Q: What's the package?

A: We have 3 layers package. For the outside, we adopt wood craft case. In the middle, the machine is covered by foam, to protect the machine from shaking. For the inside layer, the machine is covered by thickening plastic bag for waterproof.

Q: Will the package damaged during transportation?

A: Our package is considerate all the damage factors and make it to be safe, and our shipping agent have full experienced in safe transportation. We have exported to 180 countries worldwide. So please don't worry, you will receive the parcel in good condition.

Q: How to install and run the machine?

A: Our technician have installed the machine before shipping. For some small parts installation, we will send detail training video, user's manual along with the machine. 95% customers can learn by themselves.

Q: How can I do if the machine goes wrong?

A: If confronted with such problems, please contact us asap and do not try fix the machine by yourself or someone else. We will response within 24 hours as quick as we can to solve it for you. alxe?