

*Professional metal laser cutting machines*



- SOURCE FACTORY  
- FAST DELIVERY

# Perfect

GLOBAL MACHINES

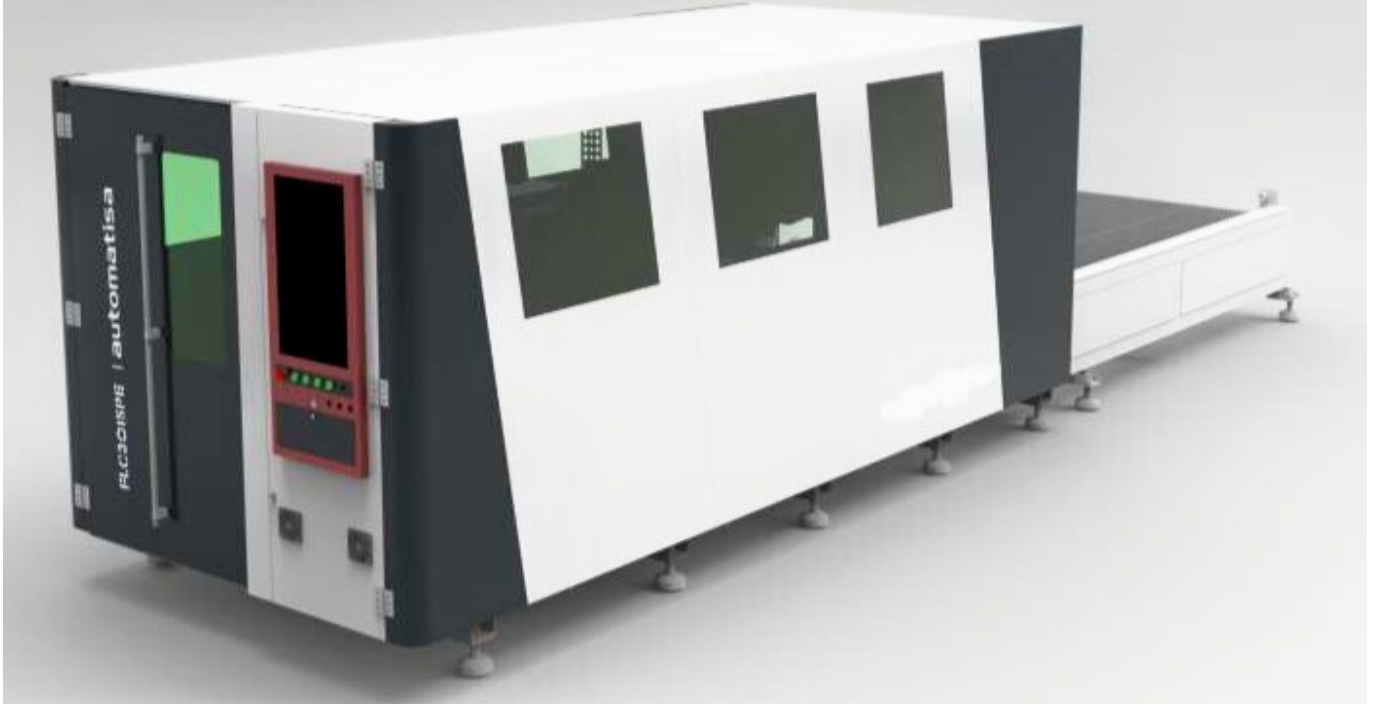
## PROFESSIONAL SOLUTION

Promoter of laser cutting and welding technology.



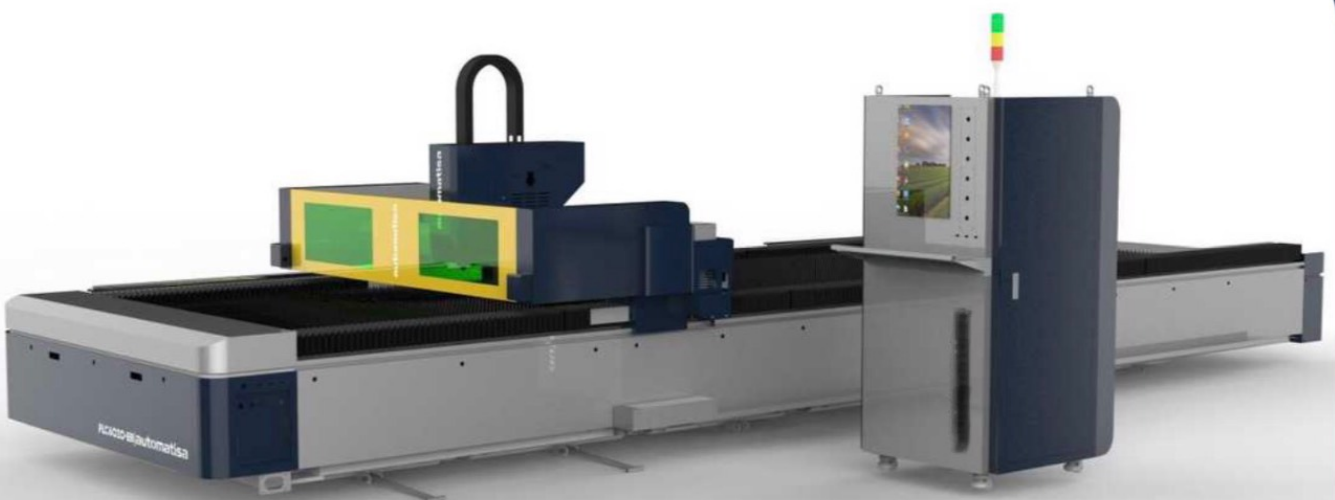
Management system conforms to the standard: GB/T 19001-2016/ISO 9001:2015

## PGM Brand 3015 PE Double Exchange Platforms for Laser Cutting machine



- ◆ Autofocus cutting head;
- ◆ The segmented rectangular welded bed.
- ◆ Auto collection of smoke.
- ◆ Night vision system, day and night surveillance

## Fiber Laser Cutting





## Machine Features:

### Fully-protective Structure

Top cover and pneumatic door between exchange platforms can protect workers from laser radiation.

### 40HQ Standard Container Transport

Save factory floor space;

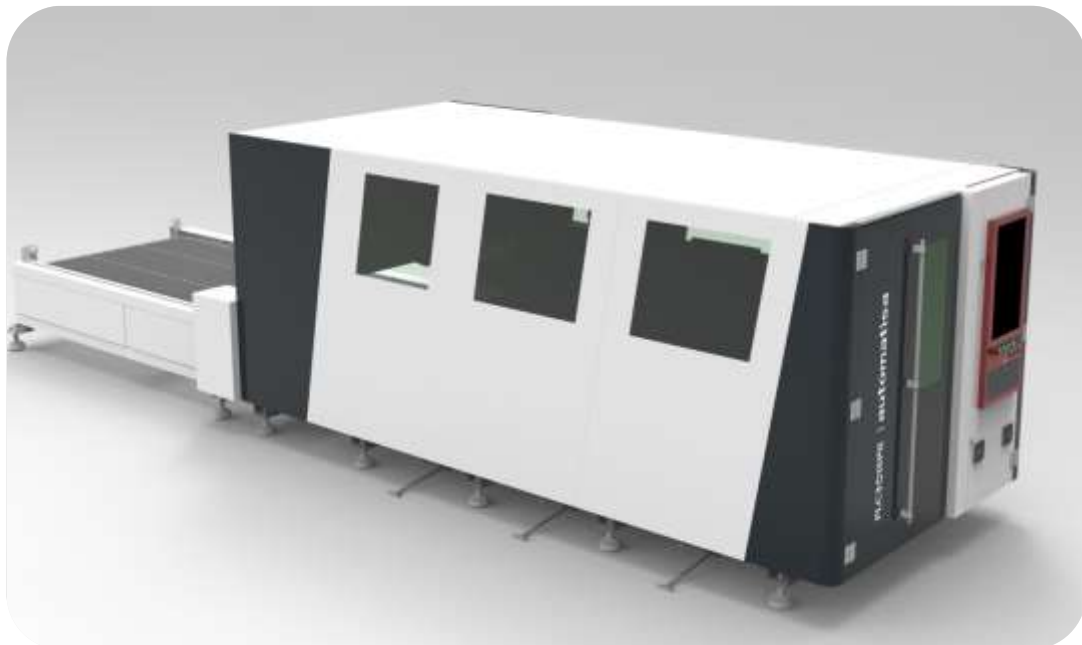
The whole machine will not disassembled, and the mechanical part is treated with anti-rust and moisture-proof treatment. The whole machine is loaded directly into the container



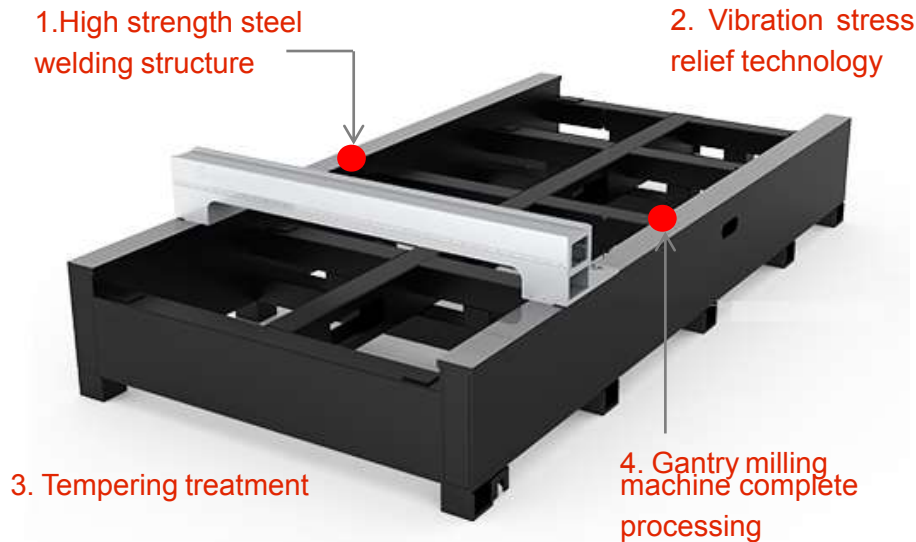
### Strong type industry machine body

With strong type & high temperature protection machine body, it will not out of shape during cutting with high temperature.

FSCUT2000C system	Raytool BM110 Auto head	MAX / Raycus Laser source
JAP HCFA servo motor	JAP TOMO GAWA Reducer	JAP SMG guide
With TOUCH LED screen	Taiwan J&T rack gear	Exchanging Platform



## Machine Features:



## High Strength Machine Bed, Heat Treatment with 12 Hours



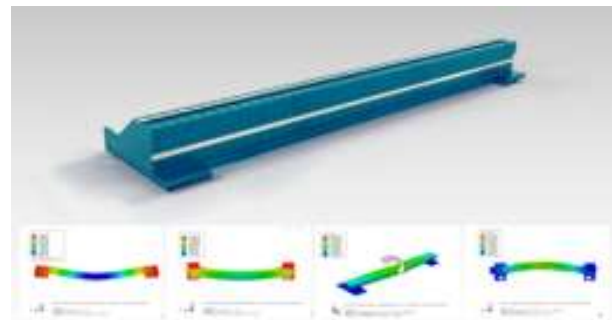
High-strength machine tool, adopting 600°C high temperature annealing treatment, with integrated machine rigidity.

With 12 hours heating and cooling to increasing rigidity and releasing inner stress generated in the machining and welding process, ensure

long-term stable and reliable when cut thick metal plates with high power laser beam(High temperature).  
The overall mechanical structure has small deformation and low vibration, ensuring cutting accuracy.

## High Tensile Strength Beam

Thanks to the high tensile steel, the beam features lightweight with better dynamic performance; it is formed by high-strength processing, heat-treated, and then rough processed, and then finished after secondary vibration aging treatment, which ensures the overall strength, rigidity and stability of the beam.



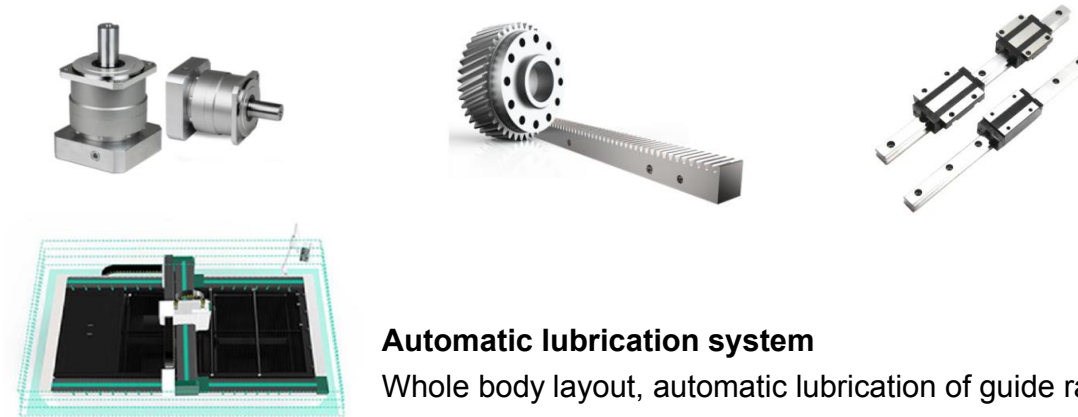


**Technical Parameters:**

MAIN INFORMATION	
Model:	PGM 3015-PE (Cabinet)
Power:	3000W
Control system:	FSCUT2000C
Motor driver:	HCFA servo Motor, X750w+Y750w+Z400W
Cutting head:	Raytool BM110 (Auto Focus)
Guides:	SMG (Jap)
Rack and gears:	J&T (Taiwan)
Reducer:	TOMO GAMA (JAP)
Electronic components:	CHNT
Lubrication:	Automatic system
Chiller:	S&A
Power:	3-Phase, 380V 50/60HZ
Power protection level:	IP54
Air pressure:	16Bar
DATA	
Processing format	3000x1500mm
Z distance:	110mm(Up table), 340mm(Down table)
Load of worktable (Max):	1200kgs
Wavelength:	1080nm
Beam Quality:	<0.373mrad
Position visualization:	Red pointer
No-load speed (Max):	<b>100m/min</b>
Acceleration:	1.5G
X/Y-axis position accuracy:	±0.02mm
X/Y-axis reposition accuracy:	±0.02mm
Gases:	O2, N2, Ait
Manual control:	WIFI Wireless
G.W:	4800kgs about

## Transmission System

Equipped with high-end reducer(SHIMPO) and high-precision rack(JinTe), guide rail(SMG), and ball screw to build a complete set of high-precision transmission system, excellent internal quality achieves high standard machining dimensional accuracy, ensuring long-term stable operation of the equipment.



## Automatic lubrication system

Whole body layout, automatic lubrication of guide rails and racks.

## Tiny and Useful

Single platform with open structure which can load material from two directions to achieve tiny machine size.

## Control Performance



FSCUT 2000C 系统高速响应, 抗干扰能力强, 电气维护简单。 FSCUT2000C system high-speed response with strong anti-interference capability and simple electrical maintenance.

FSCUT2000C medium power laser cutting system is for 1000-3000W power laser cutting scenarios. It is easy to install and debug with excellent performance and complete solution.

Applicable to 1000W ~ 3000W medium power fiber laser cutting machine, widely used in fabricating industries of metal workpiece, kitchen utensils, lamps, cabinets and more.







## MFSC-3000 High-power Fiber Laser Source

Premium components, superior performance and longer lifetime



光纤输出头 (QBH 头)



### Laser Source Features



#### Up to 6KW Output From CW Single Module Series

Better beam quality vs. multi module lasers, Greatly improved efficiency



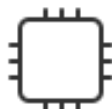
#### Excellent Material Processing Performance

High speed in thin sheet cutting, Strong capability in thick material processing



#### Compact Design, Maintenance Free

Highly integrated system with modular design, Easy maintenance significantly reduce TCO



#### Smaller Size with Higher Stability

>60% reduction in volume

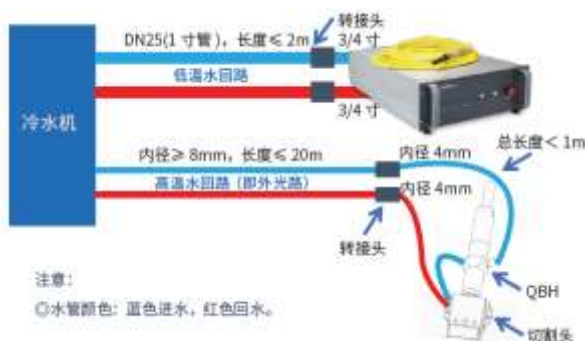
Higher flexibility when integrated in to system



#### High Level Vertical Integration

All key components are designed and produced in house

Strict quality control, high consistency and reliability





## Automatic Focusing Smart Cutting Head

Raytool BM110 smart cutting head delivers a great performance with stable cutting, simple installation and setup, available for power levels below 3.3KW.

- ◆ Dual water cooling circuits.
- ◆ Modular design with easy maintenance
- ◆ 3 cover glasses(top, middle and bottom) protect collimation & focus lens
- ◆ Auto focus to reduce human interxentionand improve piercing & cutting efficiency.
- ◆ IP65 class dustproof, patented cover glass cover plate, all-around dust prevention.

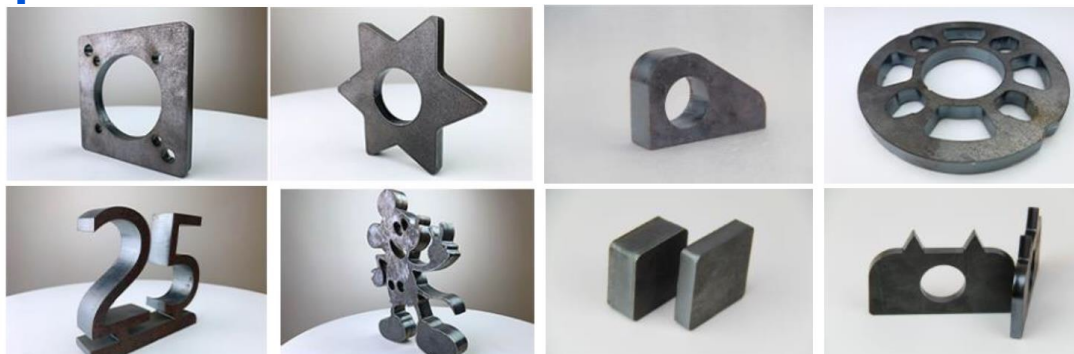


### Head Technical Parameters

Model Type:	BM110
Max Laser Power:	3300W
Laser Light Cable Receiver:	QBH
Focal Length Of Focusing Lens	150/200mm
Auto Focus Range:	-12 ~ +10mm
Auto Focus Speed:	≤170 mm/s
Acceleration:	≥10 m/s <sup>2</sup>
Precision:	≤0.05mm
Clear Aperture:	35mm
Shielding Gas Pressure:	≥30bar
Weight:	5.6kg
Collimation Lens:	Φ24.9*1.5mm
Focus Lens	Φ27.9*4.1mm



## Application:

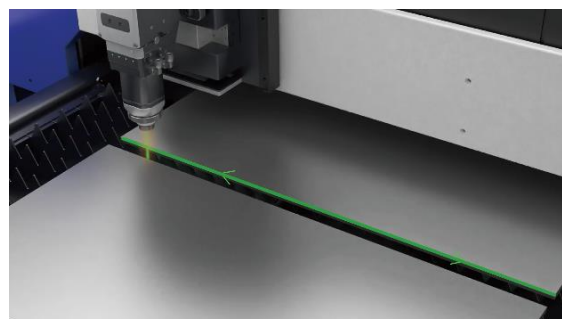


Widely used in kitchen utensils, advertising signs, lighting hardware, electrical cabinets, auto parts, machinery and equipment, electrical equipment, aerospace, shipbuilding, elevator manufacturing, rail transit, textile machinery, precision parts, sheet metal processing, etc.



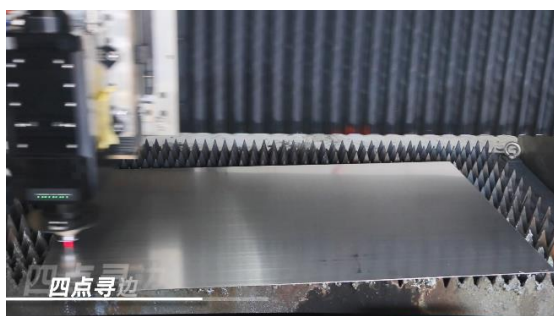
### Stock layout

More reasonable arrangement of parts to reduce sheet metal waste



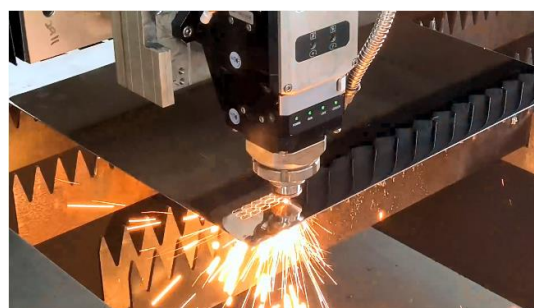
### One click cutoff

Quickly cut the board and recycle the remaining materials



### Automatic edge finding

Multiple edge finding methods too accurately and quickly determine the plate rotation angle

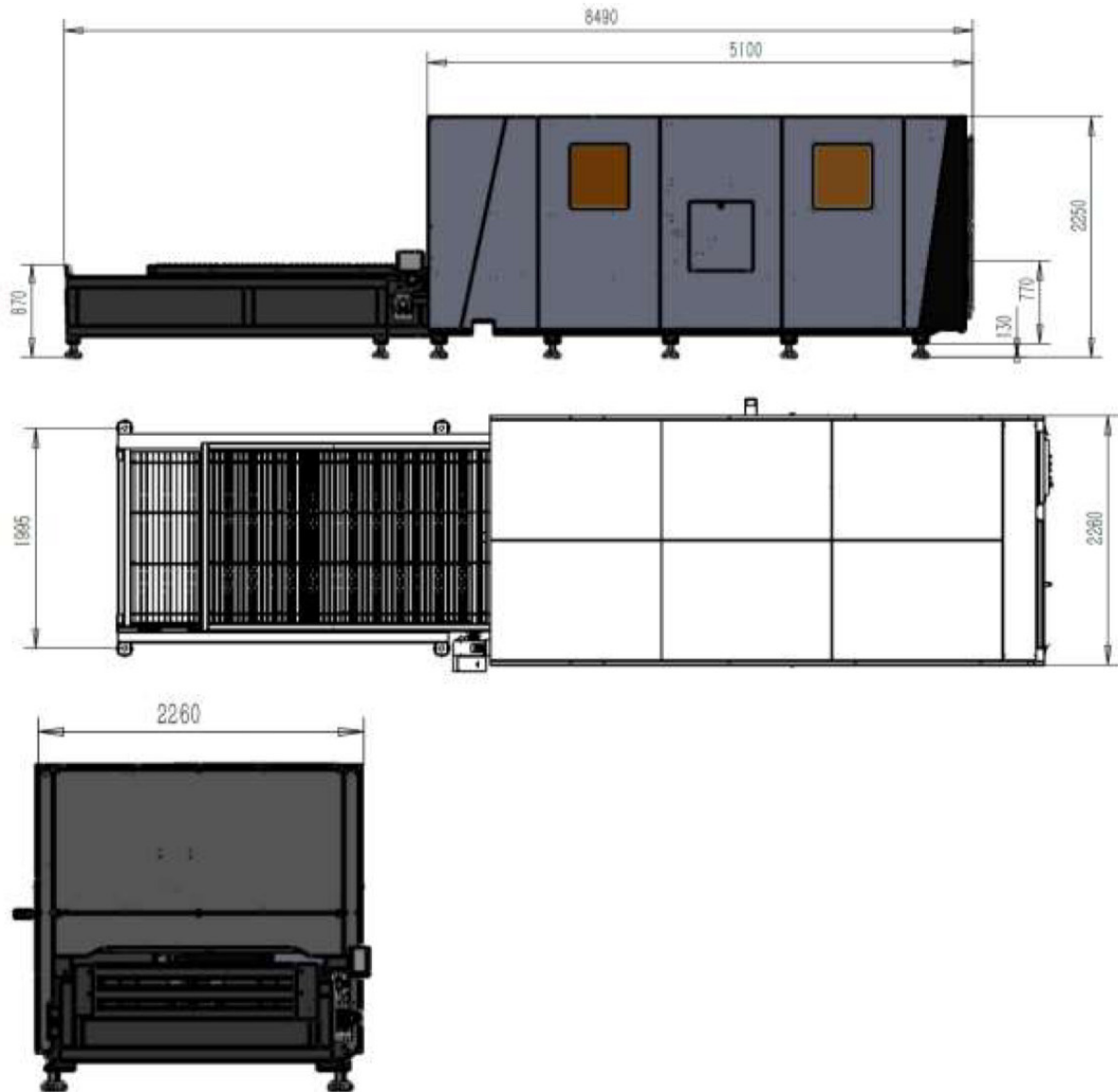


### Flycut

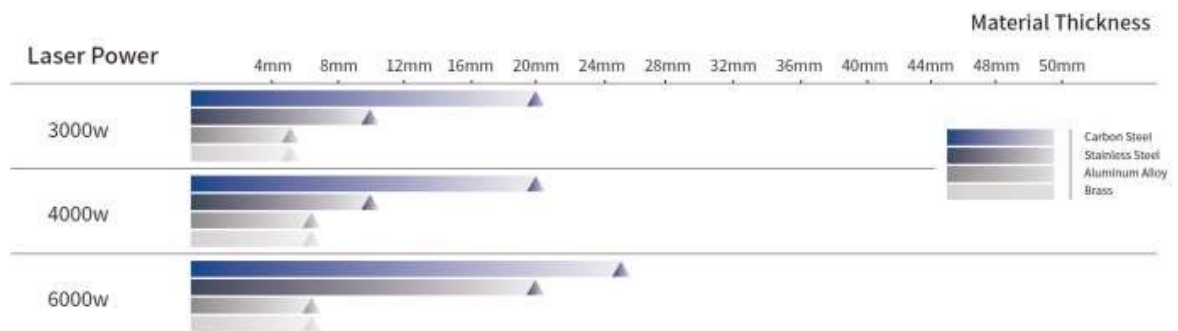
Reduce acceleration, deceleration, and lifting during the cutting process to improve cutting speed

## Machine Foundation:

### Machine Foundation:



## Cutting Capacity:



The actual machines shall prevail and above data & pictures are only for reference.





## Certifications

We have passed CE from TUV, ROHS,FDA,ETL,CSA certificates, which is in line with European and American standards. And our equipment meet Brazil N12 safety rules.



## Work environment requirements

1. Relative Humidity: 40%-80%, non condensing.
2. Voltage: 380V; 50Hz/60A
3. Fluctuation of power supply network: 5%; the ground line of power network meets international requirements; if the voltage amplitude of more than 5% of the area, should be installed with automatic voltage stability, current stability device.
4. There should be no strong electromagnetic signal interference near the installation equipment. Avoid radio transmitting station or relay station around the installation site.
5. Foundation amplitude: less than 50um; Vibration acceleration: less than 0.05g. Avoid a large number of stamping machine tools in the vicinity.
6. Air pressure: 86-106kpa.
7. Equipment space requirements to ensure smokeless and dust-free, to avoid metal polishing and grinding dust serious working environment.
8. Anti-static floor must be installed and shielded wire connected.

The water quality of circulating cooling water is strictly required. Pure water, deionized water or distilled water must be used.

# After-sale Service

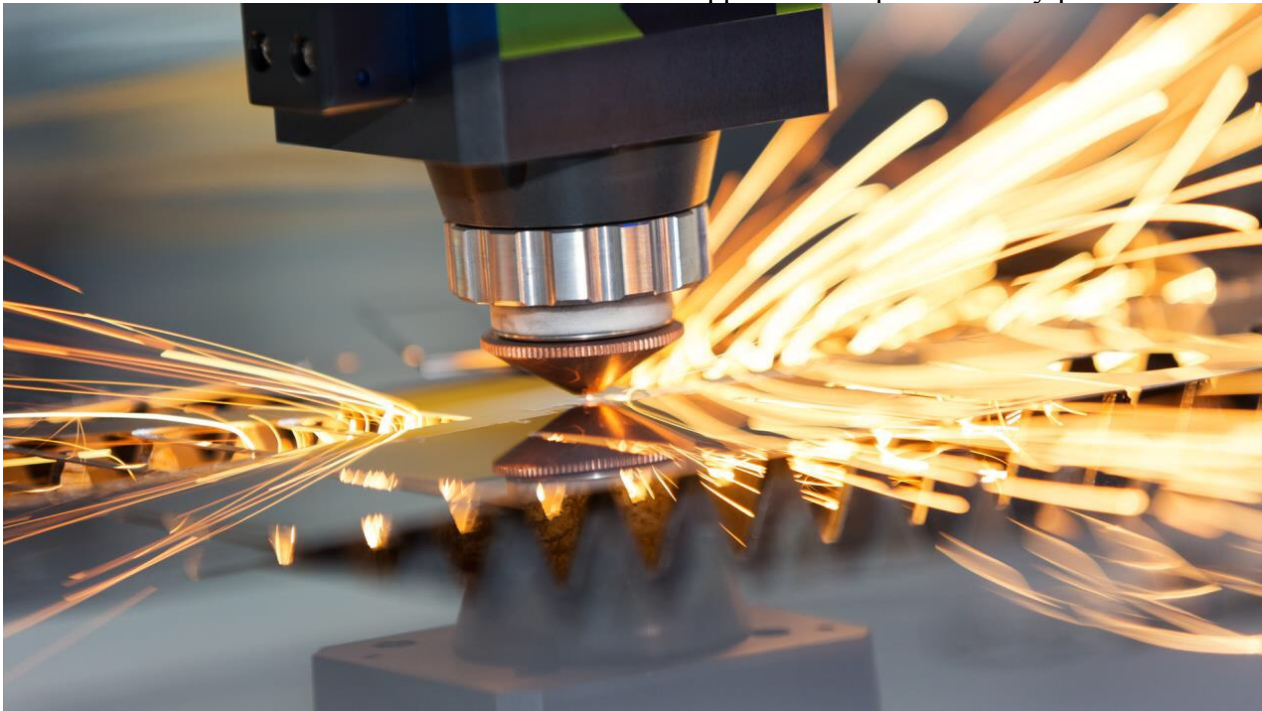
## 1. Installation and debugging:

According to the contract, our company will safely transport the equipment to the installation location designated by the user within the specified time, and send technical service engineers to install it on site. Under the condition that the user basically has spare parts for installation and debugging, the technical service engineer will complete the installation and debugging of the machine within 1-2 days for the user to use, to ensure that the installation and debugging site environment is neat, clean and orderly.

## 2. Technical training:

The company provides technical training. After installation and debugging, the buyer's operators will be trained at the buyer's site or at the seller's training and maintenance center until the operator can use the equipment normally. The main training contents are as follows:

- Training on the use of common drawing software
- Training on the use of cutting control software
- Switch machine operation procedures training
- The meaning of panel and software control parameters, the training of parameter selection range
- Basic cleaning and maintenance of the machine
- Problems that should be paid attention to in operation.
- Common Hardware Troubleshooting
- In addition, it also provides users with relevant technical support for the products they produce



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No:4/177, Paalkarar Thootam, Main Street, Avanishi Main Road, Poppys vista  
Hotal Back side, ThirumurganPoondi Tirupur-641652, Tamil Nadu ,  
india, phone: +919345678911  
Mail:pgm@perfectglobalmachines.com / pgmindia8@gmail.com  
Branch's : Coimbatore / Bangalore

**WWW.perfectglobalmachines.com**

