

PERFECT LASER

YAG Metal Sheet Laser Cutting Machine

(Model: PE-M500-6262 /PE-M700-6262)



YAG laser Cutting Machine Advantages



01
ONE

Low Cost in Use:
Power Consumption is only 20-30% Compare to Co2 Laser



High Speed: 2-3 Times than CO2 Laser

02
TWO



03
THREE

High Accuracy: Fine Laser Beam Quantity, Slim Kerf



Low Maintenance: Almost Zero Maintenance Cost

04
FOUR





Machine Configuration

Laser Cutting Head



LCD Control Panel
For Laser Power Supply



Moving Tank Chains



X Axis Servo Motor

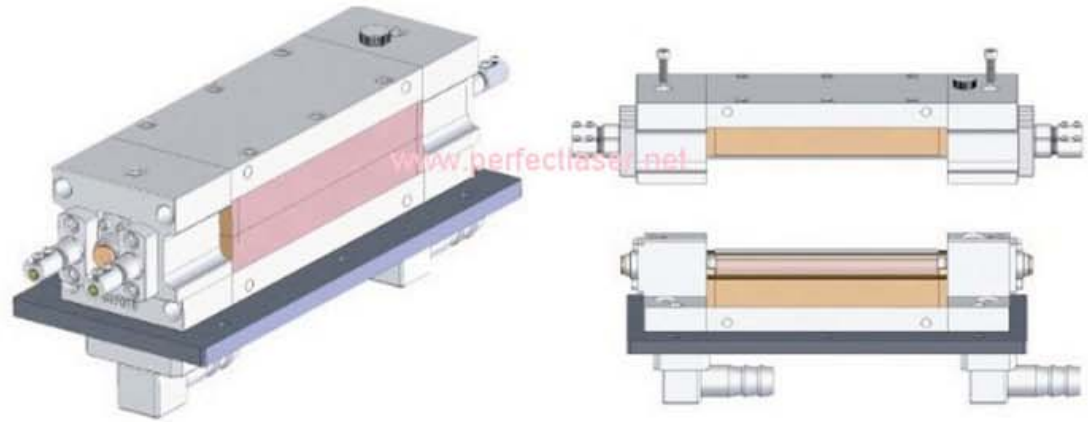
1 Adopt Advanced Germany Technology

Ensure most high tech in the world

PERFECT LASER
www.perfectlaser.net

2 Advanced Laser Optical System

Ensure Excellent Laser Beam Quality
Double-Xenon-lamp technology can strongly improve the laser power and laser beam quality.



3 Laser Path Pre-View & Pre-Position Function

Laser beam is in-visible by adopting "Red Light Pointer"
Realize the laser path pre-view and Pre-position function.
Simulate the laser cutting path Pre-run the cutting path in advance
Ensure finding the accurate cutting position



4 Unique Mirrors and Lens Cooling Technology

All mirrors and lens is cooled by water
Takes the mirror heat during working
Prolong its' lifetime
Save future operation cost

Part 1: Laser Cutting System

1 Laser Bridge



2 High Precision Laser Cutting Head

Excellent Laser Beam,
Strong Laser Power
Have 3 laser beam adjusting screw
to adjust the laser path easily

Part 1: Laser Cutting System

3 Professional Saw-tooth Type Cutting Table

Heavy Loading
Can move from left to right, up to down
Lifting range is 300mm
Suitable for different height
of work-pieces



4 XY Axis Moving System



Part 1: Laser Cutting System

5 Drawer Design

Convenient to collect work-pieces.
Also can collect dust and metal scrap.



6 Japanese Panasonic Servo motor and Drive

Extreme precise positioning
Make moving positioning mechanism operate smoothly
Reliably and free of maintenance.

Part 1: Laser Cutting System

7 Taiwan Made Ball Screw Rod

Diameter 50mm ball screw rod
High accuracy linear running guide rail
Improve the precision and accuracy of the machine



8 Taiwan Linear Guide Rail

High speed with
Lower noise volume
High accuracy and long life span

Part 2: Laser Control System

1 Control System

Industry Computer:
CPU is Intel Core i3,
DDR3 is 4G
SSD is 250G



2 Laser Power Screen

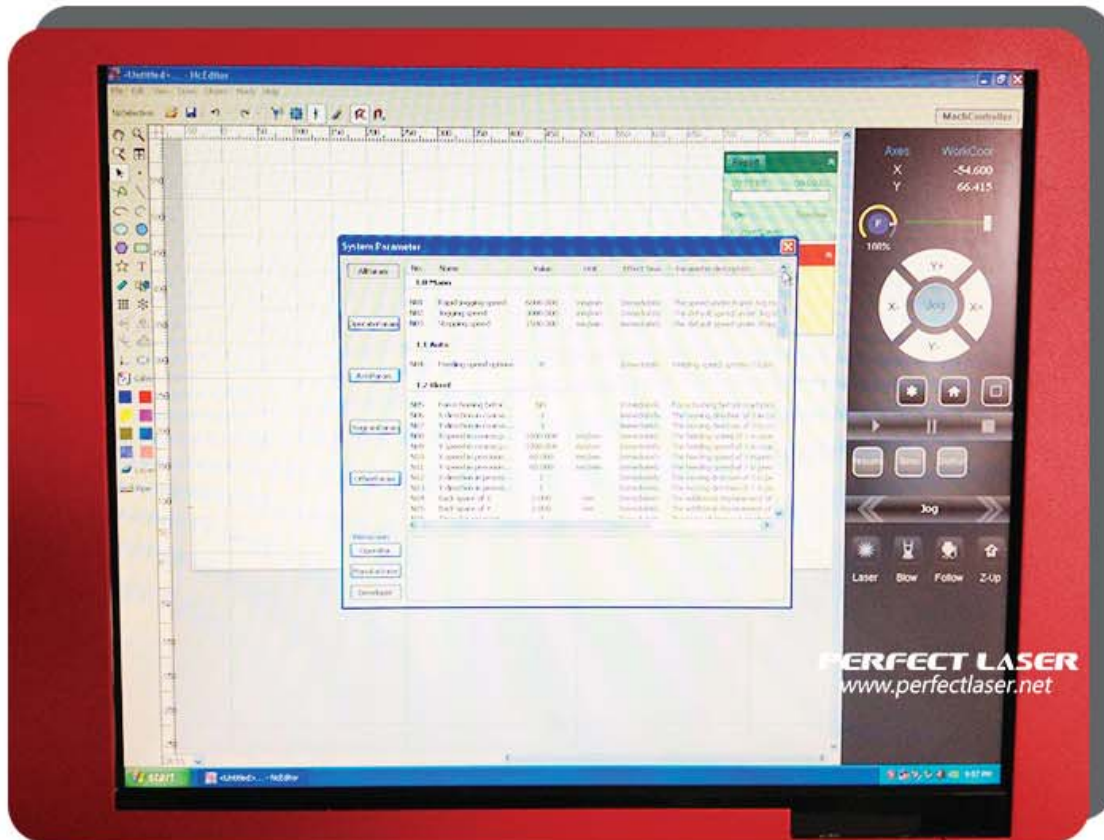


3 Computer Screen



Part 2: Laser Control System

5 Professional Laser Cutting Software



6 Foot Switch



Part 3: Water Cooling System

1 5P Powerful Water Chiller

Increase the stability of cutting power
 Support water flow testing
 Makes the cutting power more stable.
 Avoid material cut un-completely.
 Enhance the working efficien



Cutting Thickness

Cutting Material	PE-M500-6262		PE-M700-6262	
	Max. Cutting Thickness	Best Cutting Thickness	Max. Cutting Thickness	Best Cutting Thickness
Mild Steel	6-7 mm	3-5mm	7-8 mm	4-6mm
Stainless Steel	5-6 mm	3-4 mm	6-7 mm	3-5mm

PEM-700 YAG Metal Laser Cutting Machine Cutting Thickness & Cutting Speed



Metal	Cutting Thickness (mm)	Cutting Speed (mm/s)	Min Line Width (mm)	Auxiliary Gas
Stainless Steel	0.5	4000	0.12	Air
	1	2000	0.15	Air
	2	1000	0.2	Air
	3	500	0.25	Air
	4	300	0.3	Air
	5	200	0.4	Air
	6	150	0.45	Air
Carbon Steel	0.5	4000	0.12	Air
	1	2400	0.12	Air
	2	1000	0.15	Air
	3	500	0.2	Air
	4	350	0.3	Air
	5	240	0.35	Air
	6	200	0.4	Air
Aluminum Alloy	0.5	3600	0.12	Air
	1	2000	0.15	Air
	2	1200	0.2	Air
Brass	0.5	2400	0.12	Air
	1	1500	0.15	Air
	2	900	0.2	Air

Special Note:

- 1) If auxiliary gas is Oxygen, the cutting speed can increase by 30%-50%.
- 2) Aluminum Alloy and Brass should be not pure one (have alloy in it).

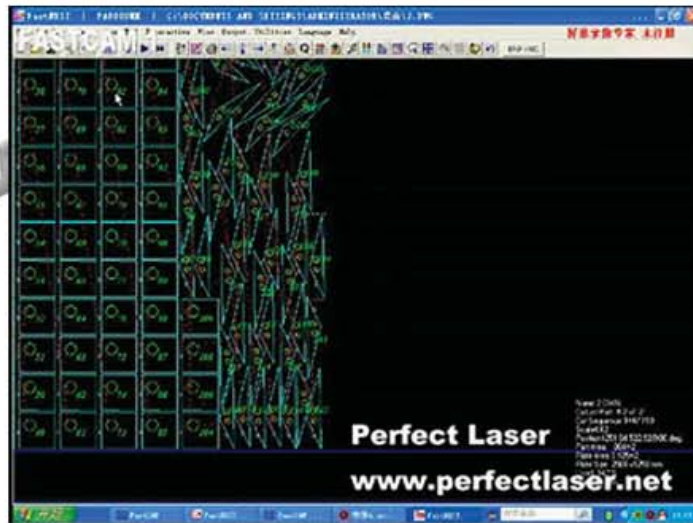
Air Compressor + Air Drying Machine:
This equipment is needed when using compressed air which is the most economic way compared with N2 and O2.



1. Air Compressor
Economic and long life using.



2. Air Drying Machine
Drying the water from the air compressor



Professional Laser Cutting Software

CNC 2016 latest version with powerful editing function

Friendly interface

Easy to Use.

Can supports DXF, PLT, G-Code and many other graphs.

Consumables

Items List	Life time (Hour)	Suggest QTY for One Year (Pc)
Laser Xenon Lamp	700	6-12
Focus Lens	1200	2
Beam Expander Lens	500	5-10
Full Reflection Lens	800	5
Half Reflection Lens	500	5-10
45 Degree Lens	1500	2
Copper Gas Nozzle	1500	2
Adjusting Sheet	1500	2

Model	L*W*H	Volume	Weight
PE-500-6262	226*116*185cm	4.85CBM	500Kgs
	142*65*136cm	1.26CBM	200Kgs



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

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.