YAG Metal Laser Cutting Machine



YAG Cutting Machine Advantages



Low Cost in Use:

Power Consumption is only 20-30% Compare to Co2 Laser

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High Speed: 2-3 Times than CO2 Laser



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High Accuracy: Fine Laser Beam Quantity, Slim Kerf

Low Maintenance: Almost Zero Maintenance Cost



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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		T LASER sct-laser.com	
Half Reflection Lens	500	5-10	
45 Degree Lens	1500	2	
Copper Gas Nozzle	1500	2	
Adjusting Sheet	1500	2	

Sample Show











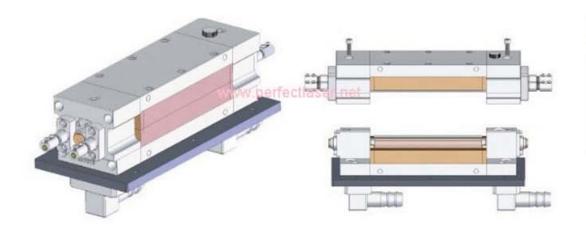






1. Adopt Advanced Germany Technology

Ensure most high tech in the world



2. Advanced Laser Optical System

Ensure excellent laser beam quality
Double-Xenon-lamp technology
Can strongly improve the laser power and laser beam quality.



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



5. Heavy Machine Body

Adopt 100mm*100mm*6mm thick square metal tube Stable, Heavy Loading Won' t distortion after long-time using Worktable Max. Load can reach 500 kgs



6. Adopt A Funnel-Type Machine Bed Design

Work with conveyor belt Easy for user to get the cutting pieces from the machine front



7. Dynamic Auto-Focus System

Keep the same distance between the metal sheet and laser head Realize the accuracy of cutting effect.





Adopt feeding wheel design Make the material feeding easier Labor energy saving



9. Auto Oil-Filling System

Press for once, can lubricate the machine transmission rod for 2-3 months.



10. No Need User to Take It by Hand.

Make the work-pieces neat and beautiful.





7 7P 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 efficiency



2 Professional Laser Cutting Software

Adopt CNC 2012 latest version, with powerful editing function Friendly interface, Easy to Use. Supports DXF, PLT, G-Code and many graphs.



3. USA Dynamic Auto Focus System

When metal sheet is not so plain Adjust the focusing distance automatically







Stable, Heavy Holding



5. Laser Source

Adopt USA imported Laser Xenon lamp Double lamp Technology Strongly improve the power and laser beam quality



6. Taiwan Made Ball Screw Rod

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





7. USA Dynamic Auto Focus System

When metal sheet is not so plain
Adjust the focusing distance automatically



8. Taiwan Linear Guide Rail

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



9. Japanese Panasonic Servo Motor and Driver

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









3 Screws in the 45 degree lens Easy to adjust laser path



11. Driving Chain



12. Foot Switch

Press it for cutting easily



Cutting Material	PE-M500-3015		PE-M700-3015	
	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 PERFECT www.perfec	The state of the s	3-5mm



	Metal	Cutting Thickness (mm)	Cutting Speed (mm/s)	Min Line Width (mm)	Auxiliary Gas
	0.5	4000	0.12	Air	
	Stainless Steel	1	2000	0.15	Air
		2	1000	0.2	Air
St		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 www.perfe	ct-laser.com 0.12	Air
		1	2400	0.12	Air
		2	1000	0.15	Air
C		3	500	0.2	Air
		4	350	0.3	Air
		5	240	0.35	Air
		6	200	0.4	Air
		0.5	3600	0.12	Air
Aluminum Alloy	1	2000	0.15	Air	
	2	1200	0.2	Air	
	3	500	0.25	Air	
	Brass	0.5	2400	0.12	Air
		1	1500	0.15	Air
	2	900	0.2	Air	

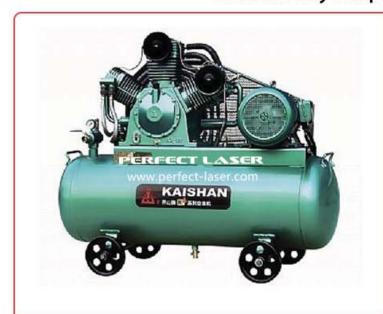


Special Note:

- 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.



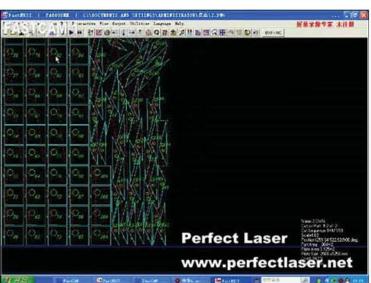


1. Air Compressor Economic and long life using.

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









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Copper Gas Nozzle	1500	2
Adjusting Sheet	1500	2

Packing and Shipping









Model	Part	LWH (m)	Volume(m3)	Weight(kg)	
	Host computer	4.5*2.1*1.58	14.93		
PE-M500-2513	Control cabinet	1.05*0.9*1.42	1.34	2000	
	Chiller	1.25*0.75*1.85	1.73		