

PERFECT LASER

Full Enclosed Cabinet Fiber Laser Marking Machine

(Model: PEDB-200)



1. Low operation cost, free maintenance for over 10 years

2. Fast Speed:

Imported laser scanning system makes the marking speed up to 7000mm/s.

3. High Precision: Re-position precision is 0.002mm

4. High-Rate of Electrical-Optical Conversion:

The efficiency of optic-electrical converting is up to 70%

5. High Reliability:

MTBF(Mean Time Between Failures) >100,000 hours

6. Integrated and Compact:

Compact, Small, Desktop, Easy delivery

7. Easy Operating:

Easy operation, English User Manual, VCD training video, software sending together with the machine.
24 hours online service.

8. Air Cooling:

Adopts air cooling, has excellent cooling effect than the other cooling method.

4.

Emergency Stop and Convenient Switches

Press it when meets error, the machine will stop working immediately to avoid losses.



5.

Electric Lifting System

Can adjust the Distance Between the Marking Head and the Object, Makes the Marking Easily. The Standard Lifting Distance can reach 400mm. Also, It can be Customized.



- 1.**
Full Closed
Control Cabinet
- 2.**
Small and Compact
- 3.**
High
Precision
- 4.**
7000mm/s
Fast Marking Speed

Laser Marking Head Inside



Back



Control Panel



Emergency stop

Key Parts of Fiber Laser Marking Machine



1.

Germany Technology Fiber Laser Source

A wide selectivity of operating wavelengths, ultra-low amplitude noise, high stability and ultra-long lifetime.



2.

Digital Fast Speed Galvanometer Laser Scanning Head

Fast response ability < 0.7ms, can realize high speed marking with high precision.



3.

Cover Protection

Full Enclosed Cabinet, Small and Compact, Well Protect the Operator.

4.

Emergency Stop and Convenient Switches

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6.

Power Control System

Control System Use Taiwan MW Power Supply with Stable Performance and Professional technology, It can Work Constantly for 16 Hours Every Day.



7.

Position Switch

Accurate Position, Makes the Marking Effect Perfectly.



8.

Exhaust Fan Design in Back Side

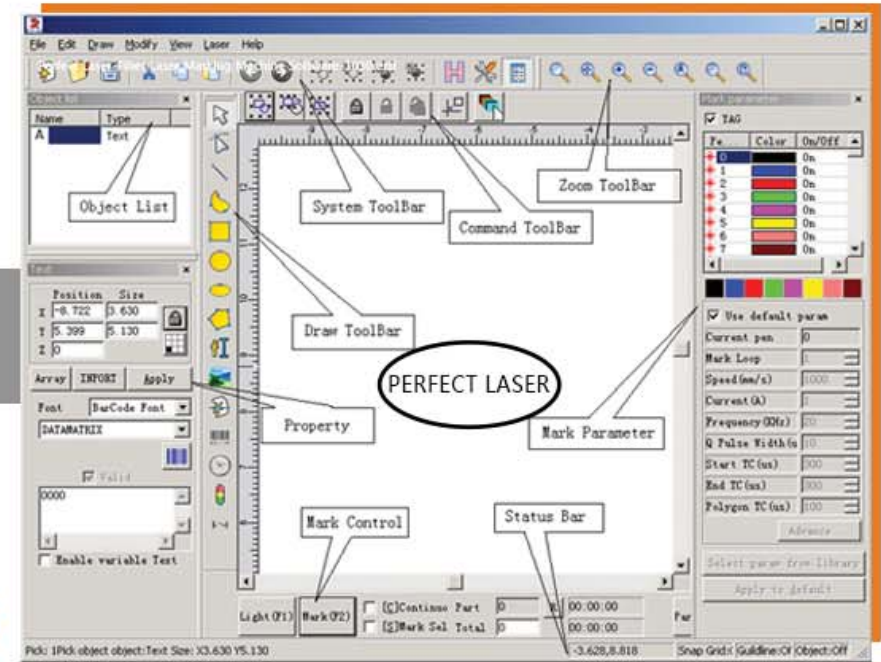
Exhaust the Heat Inside of the Machine, Ensure the Machine Long Time Using.



9.

Adopt latest V2.10 version laser marking software, with more than 10 years development, it containing deep technical characteristic.

- 1 Powerful editing function, Friendly interface, Easy to Use. Can supports DXF, PLT, -Code and many other graphs.
- 2 Perfect Laser Marking Software runs on a PC with 500 MHz CPU and 128 MB RAM at least. In general, we recommend the fastest PC available. Perfect Laser Marking Software can run in Windows XP and Windows 7.
- 3 The installation of Perfect Laser Marking Software is very easy. Users simply need to copy Perfect Laser Marking Software folder which is in the Install CD to hard disk, and then double click the Perfect Laser Marking Software.exe under the Perfect Laser Marking Software's directory to run the software.
- 4 Perfect Laser Marking Software requires a software security device sometimes known as a 'dongle'. This device plugs into the USB port on the PC. If there is no dongle or the dongle do not installed correctly, a caution will appears and the software will work at demo state. In demo state, we can evaluate the software but we can not save files and can not control laser device.



10.

Stable and Durable Control System

EZ-CAD control system with stable performance and high reliability. More than 10,000 sets of equipment are using EZ-CAD control card, shield-utilizing part of complex functions, ensuring higher stability.



11.

Whole Machine

No Consumable, free of maintenance using for more than 10 years.



Comparison With Ordinary Fiber Marking Machine

Marking Items	PEDB-200 Fiber Laser Marker	Ordinary Fiber Laser Marker
Transparent Button	Available Mostly, Have Excellent Effect	Rough and Poor Contrast
Keyboard	Smooth and High Contrast	Rough and Poor Contrast
Plastic Mobile Cell	Smooth and High Contrast	Rough and Poor Contrast
Mobile Charger	Smooth and High Contrast	Rough and Poor Contrast
Anodised Aluminum	Smooth and Non-Handle	No Such Function
Deep Mark on Aluminum	Fine Shade	Rough Shade
Thick Aluminum	No Deformation	Deformation of Substrate, Bulging
Vacuum Plating Marking	Supreme Efficiency, No Damage to Parts	Damage to Substrate
Bitmap Marking	Available for Marking Precise Bitmap	No Such Function

	PEDB-200 Fiber Laser Marker	Ordinary Fiber Laser Marker
Frequency Range (kHz)	1-1000	20-60
Impulse Width (ns)	4-200	200
Light Off Time (μ S)	1 μ S	200
Light Leak	无	yes
Time of Light off (μ S)	2	200
Power Stability for Long Time	<3%	<4%
Diameter Of Laser Beam (mm)	6-9	6-9
Fault Rate	< 2%	> 5%

PERFECT LASER

Comparison With Ordinary Fiber Marking Machine



PEDB-200 Fiber Laser Marker

VS

Ordinary Fiber Laser Marker

High contrast on color, neat edge, smooth surface

Marking On Plastic Comparison

Dull color, serrated edge, rough surface

No deformation on marking

Marking On Thin Metal Sheet Comparison

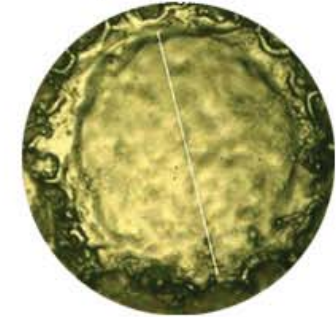
Serious deformation on marking

Almost no heat affected, fine results



Heat Effects On Metal Marking Comparison

Large area of Heat affected, the melt splashed on the edges



Short time of turning laser off with high marking efficiency

Marking Speed Comparison

Light Off Time

Longer time for turning laser off to lower marking efficiency (more than 300 μ s every line)



0 (μ s)



300 (μ s)



1500 (μ s)





Full Enclosed Cabinet Fiber Laser Marking Machine (Model: PEDB-200)

Length (m)	Width (m)	Height (m)	Measurement (m ³)	Gross weight(kg)
1	0.4	0.83	0.33	80kg

- * 24 Months Guarantee
- * 3-5 Working 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?