



YAG Lamp-pump Metal Laser Marking Machine-50W

Item Code: LMM-GL-DBD50-S



FOB Price: **\$13,257/set**

Mini Order: 1 set

Shipping Weight: ★★☆☆

Average Rating: 660.0lb (300kg)

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Overview

Application:

YAG laser marker could mark number or graphic on metal (include rare metal), plating material, filming-plating material, spray dope material, plastic and rubber, colophony, pottery etc. It could be applied to vehicles, motor spare parts, space and aviation instruments, integrate circuit, food packing, beverages, tobacco, mobile bottom, battery, electro instruments, computer fitting and outside devices, hardware tools, stainless steel instruments, horologe and jewelry, industrial axletree, electrical wire and cable, apparel garishly and other pattern fields with marking characters.

Product Highlights:

- . High resolution, fine pattern and cost effective.
- . Core parts take an imported ceramic cavity reflection, with high energy efficiency which extends the lifespan of the krypton lights up to 2 or 3 times more. The laser threshold is a low cost excellent beam quality and easy to maintain.
- . The result of the laser marking is excellent, with high speed (Max. speed is up to 7000mm/s 275.6"), high relocation and location accuracy, high repeatability that never fades.
- . The YAG Laser marker can mark on any kind of material including metal and non-metal materials.
- . It has a more competitive price than the Diode pumps.
- . It supports different file formats; with a powerful system that has a random array that can mark letters and number in the design at the same time.
- . It is equipped with an industrial water chiller, to accomplish the cleaning requirements of the laser. The water tank and water pump of the cooling system, are made of stainless steel and are sealed up totally in order to prevent dust to fall into the tank and is able to endure the erosion.

The marking software is based on the windows system possesses, it has the following functions:

- . Graphic operating interface.
- . Usable several CAD formats files.
- . Several English and Chinese fonts.
- . Series number and barcode can be compiled directly.
- . Complete database of the laser process technology
- . Easy to run and stop the machine.
- . Help on line. Online support.

Operating system requirements:

Window2000, Windows XP.

CPU: Celeron: 2.1G

Main board: Three USB connection ports.

EMS memory: 256M

HD: 20G

CD-ROM: CD room

Warranty and after sale services:

One year warranty, at the arrival of destination port. If there is a damaged part in the warranty time (1 year), the buyer must send an e-mail explaining the situation, a new part will be sent; there will be training at the moment of the purchase, so the owner will know how to change the parts of the machine. If there is need of a training, maintenance or technical support outside Our Company; the travel cost, lodging and expenses of our engineer must be covered by the client and the engineer service will be free.

User friendly English manual on how to use the machine and accomplish the maintenance.

About YAG Laser Marker:

The lamp-pump laser marking machine adopts the galvanometer scanning system. To achieve the purpose of marking, it uses a 1064 nm wavelength solid YAG laser and galvanometer to control the laser deflection.

The wavelength of a YAG laser (1.064 microns) is exactly ten times smaller than the CO2 wavelength of 10.64 microns, which makes it ideally for absorption in most metals, but this small wavelength that inhibits the ability to absorb any material, such as wood, acrylic, plastics, fabrics, etc.

Remark:

. Laser marking is the practice of using lasers to engrave or mark an object. Using a beam of light as a tool, marking with a laser, there is no contact mark with the object; as a result there is less wear and tear on the tools and the associated cost, also there is less chance for product damage. There are no consumables and no problem disposing toxic products, such as with other methods.

. High precision markings are achievable on almost any type of material including gold, platinum, silver, stainless steel, and aluminum, as well as a wide variety of plastics. Trademarks, personalized text, serial numbers, logos, and digital images, or any individual process data, can be produced with laser marking.

. Laser marking produces a fresh, clean and permanent mark. Lasers are also faster than any conventional printing product method, providing greater versatility in material choices. The same machine can cut through thin materials as well as engrave on them.

. The Medium Laser is the material that exhibits the optical gain within a laser. The gain is generated by stimulating the emission on the electronic or molecular transitions of a lower energy state to a higher energy state which is stimulated by a pump source. The Medium Laser, is the main feature of the Laser Marker, we generally use Diode pump, Yag pump and CO2.

Details

Spare Parts	Krypton Lamp
Cooling Method	Water cooling and protection system
Marking Speed	7000mm/s(275.6")
Marking Range	70*70mm(2.76"*2.76"),(Optional Range:
Laser Power	50W
Pulse Frequency	0-50KHz(adjustable)
Laser Wave Length	1064nm
Laser Medium	YAG

Specifications

Medium Laser	YAG
Laser Output Power	50W
Laser Wave Length	1064nm

Laser Frequency	0-50KHz(adjustable)
Q Adjust Method	Sound-optical Q-switch
Marking Range	2.76"×2.76"(70×70mm),(Optional Range: 4.33"×4.33"(110×110mm), 6.89"×6.89"(175×175mm))
Max. Marking Depth	0.0004"-0.0078"(0.01-0.2 mm)(depend on the material)
Max. Marking Line Speed	7000mm/s(275.6")
Mini. Line Width	0.0007"(0.02mm)
Mini. Marking Character	0.012"(0.3mm)
Repeat Precision	±0.002mm(0.0001")
Laser Capability Control Software	1-100% manipulating and software setting laser high speed controlling software
Support Image Format	PLT, AI, DXF, BMP, and other universal format
Cooling Method	Water cooling and protection system
Power Support	380V/50Hz,or 220V/50Hz
Interface	USB
Power Consume	4.5KWA
Main components	It has three main parts: control cabinet, cooling system and main power. The control cabinet includes control box, computer, laser power supply, Sound-optical Q-switch power supply from ins main power includes the laser generator, Sound-optical Q-switch, galvo head and working optical system, cooling system, main control case, laser power control system
Optional Device	Rotary system
Spare Parts	Krypton Lamp, it can be used for 1000-2000 hours.



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