



## YAG Semiconductor Laser Marking Machine-50W

Item Code: LMM-GL-DBEC50-S



FOB Price: **\$17,185/set**

Mini Order: 1 set

Shipping Weight: ★★★★★

Average Rating: 638.0lb (290kg)

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### Overview

#### Product Highlights:

- . The laser markermachine can mark on many kind of material, including metal and non-metal materials. With high marking speed (up to 7000mm/s(275.6"))
- . Imported high quality diode pumped ND YAG laser, with photoelectric and efficiency conversion.The laser is reliable with an extraordinary output, stability in power and high accuracy at marking.
- . Compared with traditional lamp pump marking laser machine, the lifespan can be extend 20 times more, energy consumption is reduced up to 75%.
- . It has advanced hardware, technology control and intelligent software operation system.
- . The laser generator, power supply, working table are all in one structure that is easy to operate.The working table can be made according to production need.
- . It is widely used for high precision marking, plastic keys, mobile phones, etc.
- . The lifecycle of the Diode pump is about 16000 hours, it can be used for a long 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 stainlesssteel and are sealed up totally in order to prevent dust to fall into `the` tank and is able to endure the erosion.

#### Applications:

- . Automobile, integrated circuit (IC), electronic components, silicon slice, electronic production, electric equipment, communication, ornaments, art crafts, PVC materials etc.
- . Widely use in normal metal and alloy, rare metal and alloy, metal oxide, ABS material, ink, PMMA etc.

#### 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 aftersales 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 send; 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 cover 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 Diode pump laser marker:**

- . The Diode Laser Marker is a laser marking machine that has a galvanometer rapid solid scanner, which is provided by the leading manufactures from `Europe` and America. It has a high performance, quality and reliability.
- . Its specialty is large scale productions; the advantage is the precision and fast marking speed that can reach up to 7000mm/s. It has a long lifespan, a compact construction; low maintenance cost and is easy to operate.

**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 afresh, 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.

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## Details

Spare Parts	No spare parts
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	200Hz-50KHz(adjustable)
Laser Wave Length	1064nm
Laser Medium	Diode pumped

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## Specifications

Medium Laser	Diode pumped
Laser Wave Length	1064nm
Laser Frequency	200Hz-50KHz(adjustable)
Laser Output Power	50W
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), 8.66"(220×220mm), 11.81"×11.81"(300×300mm))
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	0.0039"(0.1mm)
Repeat Precision	0.000078"(0.002mm)
Laser Capability Control	1-100% manipulating and software setting
Software	Special Chinese and English marking software
Support Image Format	PLT, AI, DXF, BMP, and other universal format
Cooling Method	Water cooling and protection system
Power Support	AC220V±10% 50-60Hz
Interface	USB
Power Consume	4.5KWA
Main Composing	It has three main parts: control cabinet, cooling system and main power. The control cabinet includes the control box, computer, laser power supply, Sound-optical Q-switch power supply from ins main power includes the laser generator, Sound-optical Q-switch, gavlo head and working optical system, cooling system, main control case, laser power control system
Optional Device	Rotary system
Spare Parts	No



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Email:info@sign-in-china.com Tel:+86 132 6410 3286 www.sign-in-china.com