



CO2 Laser Marking Machine-100W

Item Code: LMM-MK-A100



FOB Price: **\$48,077/set**

Mini Order: 1 set

Shipping Weight: ★★☆☆☆

Average Rating: 528.0lb (240kg)

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Overview

Product Highlights:

?It is especially used in non-metal materials, it has a good performance.

?Easy maintenance (it uses a RF CO2 laser 30W made in USA; with a lifespan of 20,000 working hours).

?Easy operation system with non Q-switch adjustment.

?With the superior Galvo system, the scanning speed can reach up to 7000mm/s(275.6"), and the marking effect is better. ?With imported lens, a smaller light spot and a better effect on the process.

?You can choose manual or automatic materials can be place on and off for to improve the efficiency of the work.

?You can choose to updated the equipment and find solutions to improve the operation system, such as ascent-air pump, descent-air pump, honeycomb table, aluminum bar table etc. The working area is free form restrictions and supports a large composite picture, providing a convenience and secure work space to the customers.

Application:

It is mainly used for advertisement decoration, art gift, garment, leather, fabric, toys, , electronic elements, cutting templates, packing and printing, paper product and more.

Materials that can be Marked:

It is suitable for numbers and graphics marking, on a metal and non-metal surface such as steel, copper, aluminum, plastic, wood, organic glass material, accessories and different nameplates, instrument and mechanical equipment and more; it can be apply to a car, motorcycle, aviation parts, spaceflight mechanisms, apparatus, instrument field, etc.

About CO2 Laser Marker:

The carbon dioxide laser (CO2 laser) was one of the first lasers to be invented in 1964, and still is one of the most used. The carbon dioxide lasers are the highest and powerful wave continuous lasers that are available, are very efficient and output ratio of power to the pump power can be as high as 20%.

A CO2 laser beam is not easily absorbed by metal, but can easily be absorbed by any organic material such as wood, acrylic, rubber, etc., while it tends to reflect off most of the metal surfaces. The wavelength differences are the two beams that are mainly responsible for the different type of materials and the reactions that they have.

Remarks:

Laser marking is the practice of using lasers to engrave or mark an object. Using a light beam as a tool to mark the products with the laser which produces a non-contact mark as a result leaves less wearing and tearing on the tools and the related costs are lowest. There is also less chance to damage the product. 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.

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.

Details

Laser Medium	R.F.
Laser Wave Length	10.64μm
Spare Parts	No spare parts
Cooling Method	Water cooling and protection system
Marking Speed	7000mm/s(275.6")
Marking Range	70*70mm(2.8"*2.8"),300*300mm(11.8"*11.8")
Laser Power	100W
Pulse Frequency	

Specifications

Laser Medium	R.F. CO2 laser made in U.S.A
Laser Wave Length	10.64μm
Frequency Pulse	≤20kHz
Laser Power	100W
Marking Range	2.8"×2.8"(70×70mm), 11.8"×11.8"(300×300mm)
Max. Scan Speed	7000mm/s(275.6")
Max. Marking Depth	Depend on different materials
Laser Capability Control	1-100% manipulating and software setting
Software	laser high speed controlling software
Support Image Format	BMP, JPG, GIF, TGA, PNG, TIF, AI, DXF, DST, PLT
Cooling Method	Water cooling and protection system
Working Voltage	AC 220V ±10% 50HZ
Interface	LMC controlling card
Gross Power	2700W
Main Composing	Worktable, optical system, cooling system, main control case, laser power control system



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