

CO2 Laser Marking Machine (LC Series)

Introduction of CO2 Laser Marking Machine

CO2 Laser marking machine is carbon dioxide laser marking. The active laser medium is a gas discharge which is air-cooled (water-cooled in higher power applications). The filling gas within the discharge tube consists of carbon dioxide and other auxiliary gas. Electron impact excites vibrational of molecule and produce a beam of infrared light with the principal wavelength bands centering on 10.6 micrometers.

Under the action of scanning galvanometer, F-Theta and the software, user can get the graphics, texts, numbers and symbols according to their requirements. The principle of the CO2 laser marking machine is to expose the deep material by evaporation of surface material. CO2 laser marking machine has no consumable cost and it can leave a permanent mark.

Advantages of CO2 laser marking machine

1. Small size and easy to move. In a CO2 laser marking machine, almost all the accessories can be put in one cabinet. There are even portable CO2 laser marking machine if the power is small (10Watt). It is very easy to carry.
2. High speed, high efficient, high precision, stable performance and no maintenance.
3. Easy operation. Those who can operate a computer can learn it easily.
4. Wide applications, can be used on most material.
5. Save cost, no need for consumables

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Function of the software:

- 1、 Can accept files with the format of BMP, JPG, DXF, PLT, AI and etc.
- 2、 Can generate varies of serial no, MGF date, barcode and QR code automatically.
- 3、 Support fly marking, Rotated marking, big size marking and Automatic segmentation by XY table.

Applications:

CO2 laser marking machine can mark on most non-metal material, such as bamboo, wood, paper, ABS/PVC epoxy resin, acrylic, leather, glass, ceramic, rubber and so on. It is widely used in pharmaceutical packaging, food packaging, beverage packaging, plastic, textile, leather, wood, handicrafts, electronic components, communications, watches, glasses, printing and other industries.

DAFENG-LC Carbon Dioxide Laser Marking Machine Technical Parameter:

Model	LC10	LC30	LC50
Laser Power	10W	30W	50W
Laser Wavelength	10.64μm		
Laser Gun Model	Carbon Dioxide Laser		
Focus System	Two red light with outline indication		
Scanning Galvanometer	High speed Digital Motor		
Repetition Accuracy	±0.002 MM		
Min Linewidth	0.01MM		
Linear Speed	≤8000MM/秒		
Marking Size	70*70MM /110*110MM /175*175MM /300*300MM others		

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Overall Dimension	Static 60*80*135CM / Fly57*66*155CM
Weight	Around 75 KG
Power Supply	220V/50HZ/5A/1P
Overall Power	300W
Cooling System	Built-In Air Cooling
Operation System	Win 7/ Win XP professional Marking Software
File Format Support	Support file from CORELDRAW、AUTOCAD、PHOTOSHOP directly. Support AI、PLT、PCX、DXF、BMP file. Support all fonts from windows system. Support automatic coding, serial no, batch no, real time, variable barcode and QR code and databases.
User Interface	Static: Desktop or laptop or industrial computer Fly: 10.4 Inch Touch Screen
Work Environments	Temperature:10-40℃, Humidity:10%-90% No Condensation

Remarks:

1. Customer can choose Synrad laser gun from America or Chinese Laser gun.
2. Customer can choose different watt.
3. For a Fly model, we suggest the laser gun power should be no less than 30W

Machine and Sample Show:



Static CO2 Laser Marking Machine



10W Fly CO2 Laser



30W Fly laser

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Plastic caps

Paper

seafood