

## LASER MARKING & CODING MACHINE

LJ-10C, 20C, 30C, 50C    Co<sub>2</sub> LASER TECHNOLOGY

### Principle & Characteristics

Co<sub>2</sub> 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 Co<sub>2</sub> laser marking machine is to expose the deep material by evaporation of surface material. Co<sub>2</sub> laser marking machine has no consumable cost and it can leave a permanent mark.



### Advantages

1. Small size and easy to move. In a Co<sub>2</sub> laser marking machine, almost all the accessories can be put in one cabinet. There are even portable Co<sub>2</sub> 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 of the materials.
5. Save cost, no need for consumables



Static CO<sub>2</sub> Laser Marking Machine



10W Fly CO<sub>2</sub> Laser



Fly Marking with Conveyor

## 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

Co<sub>2</sub> laser marking machine can mark mostly on 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.

## Technical Parameters

Model	LJ-10C	LJ-20C	LJ-30C	LJ-50C
Laser Power	10W	20W	30W	50W
Laser Wavelength	1064 μm			
Laser Source	Co <sub>2</sub> Metal Laser Tube (U.S.A.)			
Focus System	Two red light with outline indication			
Scanning Galvanometer	High speed Digital Motor			
Repetition Accuracy	±0.002 mm			
Min Linewidth	0.01 mm			
Linear Speed	8000 mm/max			
Marking Size	70*70mm /110*110mm /175*175mm /300*300mm others			
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			

Technical parameters are liable to change without prior notice.

## SAMPLES



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