

## LASER MARKING & CODING MACHINE

LJ-20F, 30F

FIBER LASER TECHNOLOGY

### Principle & Characteristics

Fiber laser marking is a technique which uses computer-controlled laser beam to leave permanent mark on the surface of various kinds of object. The working principle of fiber laser marking machine is to use light amplification to cause chemical effect or burn part of the material to mark letters, symbols, bar codes, and other graphics on an object.

Fiber laser marking machine is mainly composed fiber laser, laser scanning galvanometer and controller. The fiber laser has the advantages of small size, high quality beam, no maintenance and etc. The output center wavelength of fiber laser is 1064 nm and the life time is around 100,000 hours. Compared with other kind of lasers, fiber laser has a long life.



### Advanced Features

1. Can mark both metallic and nonmetallic materials, especially those materials with high hardness, high melting point or brittle materials.
2. High processing speeds, low operation cost, constant high quality and durability of the results, high flexibility in automation. Laser marking is a perfect choice for mass production.
3. Laser marking is non contact type of marking so it doesn't produce stress on the materials. It will not alter the physical properties of the materials processed.
4. Laser is a clean and safe process as it is chemical-proof, water-proof, oil, grease & fuel proof.
5. As the laser beam spot size (after focusing) is small, the heat-affected zone is much smaller, thus allowing it to achieve fine processing that other conventional methods cannot.
6. Laser Marking is a flexible process as one can mark texts, alphanumeric, logos, bar codes, graphics, images, 2D data matrix code, etc.
7. It is a user-friendly and cost effective marking solution as virtually no consumables.
8. Laser marking enhances the aesthetical & monetary value of products by making it more attractive & eye catching.

### Applications

Laser marking machine is widely used in most kind of products in different industrials, such as integrated circuit chip, computer accessories, industrial bearings, watches and clocks, electronic and telecommunication products, aerospace parts, auto parts, home appliances, hardware tools, molding, wire and cable, food packaging, jewellery, tobacco and etc.



Static Fiber Laser Marking Machine



Portable Fiber Laser



Fly Marking with Conveyor

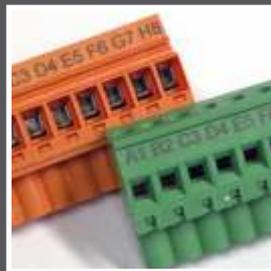
Technical Parameters

Model	LC-20F	LC-30F
Laser Power	20W	30W
Laser Wavelength	1064 nm	
Laser Frequency	20K HZ-80KHZ	
Linear Speed	8000 mm/s max	
Marking Size	70*70mm/110*110mm/175*175mm/200*200mm/300*300mm (others)	
Min Font Height	0.2 mm	
Min Linewidth	0.01 mm	
Repetition Accuracy	±0.002 mm	
Marking Depth	=5 MM (Depend on the materials)	
Operation System	=500W	
Control Interface	Static 60*80*135 cm / Fly 57*66*155 cm	
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.	
Work Environments	Temperature: 10-40 , Humidity: 10%-90% No Condensation	

Specifications

Name	Description	Remark
Laser Source	Fiber Laser	1064 nm
Scanning Galvanometer	Professional Digital Scanning Galvanometer With High Speed Motor	High Speed Motor
Focus System	Two Red Light With Accurate Position	Two Red Light
Indication System	Inner Outline Indication	Red Outline indication
Cooling System	Built-in Air Cooling	Air Cooling
Control Card	Professional Marking Software Static: EZCAD With Desktop or Laptop Fly: Integrated Industry Touch Screen	10.4 Inch Touch Screen for Fly marking

Technical Parameters & Specifications are liable to change without prior notice.



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