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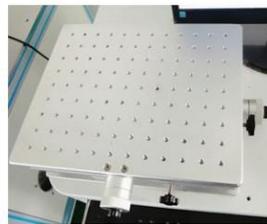
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## LB-MF10 / 20 / 30 Fiber Laser Marking Machine



Inside of fiber laser marking machine



The X-Y Axis Movable Platform



The Z-axis

## 1. Profile for Laser Marking and Engraving Machine

Fiber Laser Marking Machine adopted IPG(Germany) fiber laser and high speed galvanometer scanning system with stable power, excellent optical mode, beam with high quality, fast marking speed, good effects and high efficiency, it can meet the demand for mass production.

## 2. Technical Advantages:

- a. Using the third generation of optical fiber solid laser, the electro-optical conversion efficiency of pump light source can reach to 80% after fiber coupling. Higher beam quality, long use time, laser life can reach 100000 hours(Lamp pump YAG is around hundreds of hours, semiconductor is around 10000 hours).
- b. Perfect beam quality achieved the highest and excellent marking effect. And it has great advantages of doing anti-white,matte,chromatic...on the stainless steel.
- c. Adopted imported high-speed scanning head, and combined with software makes engraving very fast, so the processing speed is 3 to 5 times quicker than the ordinary YAG and DP semiconductor.
- d. Air-cooling, no consumables, free maintenance, save power and energy(total power is 500W), low cost of latter usage, the annual electric savings would be around USD3000-5000.
- e. High electrooptical efficiency: integrated electrooptical efficiency reaches above 20%, greatly saved power consumption and operation cost.
- f. Absolutely environmental marks without intermediate mediators involved in processing, completely in conformity with ROHS Standards.
- g. Integrated modularization design, convenient maintenance, and the small volume can save more space.
- h. Support JPG, PNG, BMP, PLT, DST, DXF, CDR, AI, DSB, GIF, MNG, TIF, TGA, PCX, JP2, JPC, PGX, RAS, PNM, SKA, RAW and other documents, and can form the serial number,production date, bar code and QR code automatically.
- i. Optional rotary workable and other automated matching system.

## 3. Technical Parameters(Fiber Laser Marking Machine)

Type	LB-MF10	LB-MF20	LB-MF30
Laser Power	10W	20W	30W
Laser Wavelength	1064nm	1064nm	1064nm
Beam Quality	M2≤1.3	M2≤1.3	M2≤1.3
Laser Repetition Frequency	20KHz~100KHz	20KHz~100KHz	20KHz~100KHz
Working Area	50x50mm ~ 300x300mm	50x50mm ~ 300x300mm	50x50mm ~ 300x300mm
Marking Speed	≤7000mm/s	≤7000mm/s	≤7000mm/s
Min.Characters	0.15mm	0.15mm	0.15mm
Min. Line Width	0.01mm	0.01mm	0.01mm
Repeated Precision	±0.001mm	±0.001mm	±0.001mm
Cooling System	Air-cooling	Air-cooling	Air-cooling
Power Supply	220V / 50Hz	220V / 50Hz	220V / 50Hz
Power Consumption	0.5KW	0.8KW	1.2KW
Dimension	800x620x1340mm	800x620x1340mm	800x680x1200mm

## Standard Accessories (Fiber Laser Marking Machine)

- A set of Germany IPG
- A set of Galvo tech Scanner
- A semiconductor module
- A set of high-speed vibrating mirrors
- A set of marking control system
- An industrial computer
- A marking work table
- A red laser pointer
- A pedal switch
- A set of marking software
- A "Instruction Book", "Operation Manual" and "Training Video"

### Lenovo Computer (Optional)



### IPG



### Scanner



### Scan Lens



## Optional Accessories

A rotary attachment (mainly for engraving cylindrical/round objects)



## 4. Application Fields for Fiber Laser Marking Machine

A. Materials: metal and various nonmetal materials, high hardness alloy steel, oxide, electroplating and vacuum plating, epoxy resin, printing ink, ABS and other engineering plastic.

B. Industry: plastic keypad, components of digital products, electronic components, electrical appliances, jewelry, precision machinery, hardware accessories, glasses, clocks and watches, vehicle and motor

accessories, sanitary ware, communication products, medical devices, integrated circuit(IC), building material, pipe materials, more suitable for the marks of high demand of accuracy, speed and depth.



## 5. After Service

1. All of our machine will be fully-checked by our quality control department before the shipment. We guarantee all of our laser machines have a one-year warranty (quick-wear parts not included).
2. Training 1-2 technician with free.
3. Training details: operation principles, system and structure, safety and maintenance, software, the processing technique, and so on.
4. Numerous feedback from our clients have proven that our laser machines are stable in performance with rare malfunction. However, we would like to handle it as follows once malfunction occurs:
  - a. We guarantee that we will give you a clear reply within 24 hours.
  - b. Customer service staff will assist and guide you to analyze the malfunction in order to locate the cause.
  - c. If the malfunction is caused by improper operation on software and other soft faults, we will help solve the problem on line.
  - d. We will offer plenty of online supports, just like detailed technical and installation instructions by email, video, telephone.