

## Fiber Laser Marking Machine

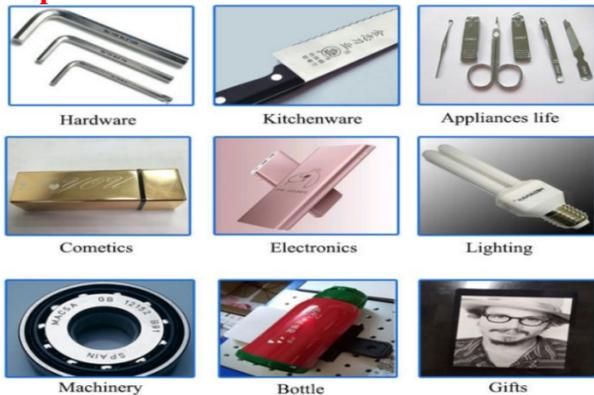
### Applied Materials and Fields

Fiber laser marking machine can mark metal and most of the nonmetal materials. It widely used in auto parts, tools, accessories, computer accessories, hardware products, integrated circuits, product nameplate, precision instruments, electrical appliances, sanitary ware, watches, jewelry, electronic components, all kind of pipes, mobile phone, aerospace devices, etc.

### Technical Parameters

Power□20W 30W 50W 100W  
Laser source□Raycus, Max, IPG  
Laser type: pulsed  
Laser wavelength□1064nm  
Working lens: 110\*100mm--300\*300mm  
Repeatability precision: ±0.002mm  
Cooling Method: Air cooling  
Power supply: 220V/50HZ  
Max speed: 12000mm/s  
pulsed frequency: 30-10000KHZ

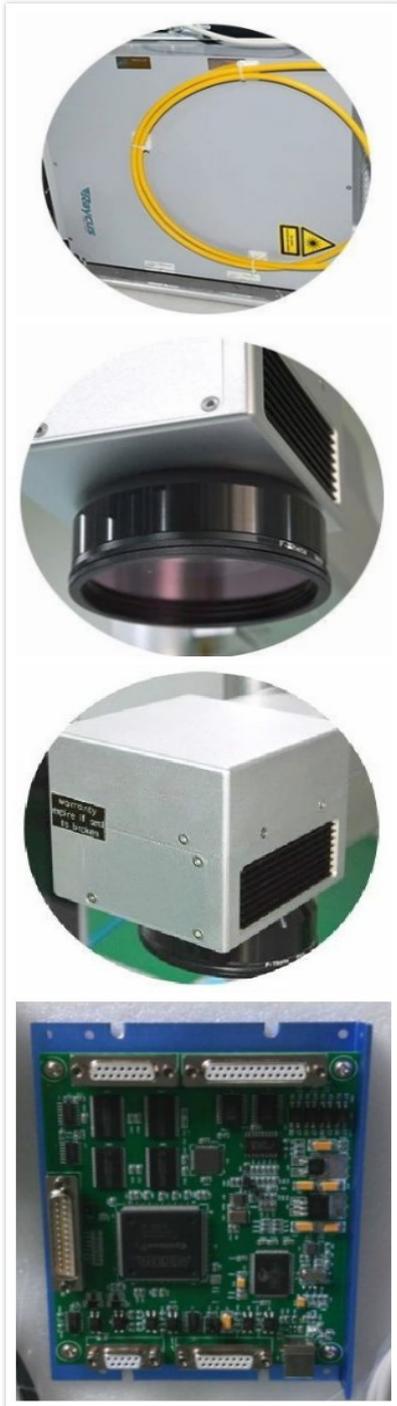
### Sample



### Software Function

- Can make identification to various BMP,JPG,DXF,PLT,AI etc format documents;
- Automatic generate various serial numbers production date, bar codes, two-dimensional codes, etc.;
- Flexibility variable quantity document processing, change word in actual time during the processing procedure, can direct dynamic reading;
- Reading text files and marking documents in actual time;
- Direct reading text data through serial port and network interface;
- Opening multiple languages support function, easily support various world languages;
- Automatic counting function;
- Support pipeline marking;
- Support multiple working positions marking;
- Support multiple rotary marking;
- Support large area automatic segmentation marking.

## Machine Details



## 1. Laser source

We adopt Raycus famous brand laser source,high stability and long lifetime without consumables. 2 years warranty.

## 2. F-theta lens

Smart F-theta lens with working area 110\*110-300\*300mm. The fiber laser beam through its focus to the work piece surface and do the mark work, this optical accessories control marking area.

## 3. Galvo head

High speed galvanometer scan head, Zhibotek/ Sino, digital signal, high precision.Good advantage on stability on high speed mark.

## 4. EZCAD control card

Famous brand Authentic JCZ original EZCAD control system with high stability and easy operation.And our engineer upgrade it after JCZ for more axis use and more stability.

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## Machine Details

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## 5. Power supply

laser source power supply 24v. Original taiwan mean well brand

## 6. Lifting Handle

To remove wheel to get the strong focus point. Laser focus distance can be adjusted easily.

This part can make to auto focus, automatic adjust focus distance, controlled by software to find the focus point easily.

## 7. Foot pedal

Press by foot,when do the same repeated processing,run the machine by foot,easy and convenient to operate.

## 8. Computer

Industry computer,4G ram and memory, 19.5 inches screen,120G SSD ,win7software.

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## Our Advantage

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1. Three laser supply independent supply galvo laser source control card avoid mutual electric interference.

1. 1 filter for remove Magnetic interference





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| 型号 Model  | RFL-P10QE           | RFL-P20QE | RFL-P30Q | RFL-P50Q    | RFL-P50QB   | RFL-P100Q   |
|---|---------------------|-----------|----------|-------------|-------------|-------------|
| 光学特性 Optical Properties                         |                     |           |          |             |             |             |
| 平均输出功率(W)<br>Average Output Power               | 10                  | 20        | 30       | 50          | 50          | 100         |
| 中心波长(nm)<br>Central Wavelength(nm)              | 1064                |           |          |             |             |             |
| 重复频率范围(kHz)<br>Repetition Frequency Range (kHz) | 20-60               | 20-60     | 30-60    | 50-100      | 50-100      | 20-200      |
| 输出功率稳定度<br>Output Power Stability               | <3%                 |           |          |             |             | <5%         |
| 输出特性 Output Characteristics                     |                     |           |          |             |             |             |
| 输出光斑直径(mm)<br>Output Beam Diameter(mm)          | 7±1                 |           |          |             |             | 6.5±1       |
| M <sup>2</sup>                                  | < 1.5               |           |          | < 1.8       |             |             |
| 偏振态<br>Polarization State                       | 随机 Random           |           |          |             |             |             |
| 脉冲宽度(ns)<br>Pulse Width (ns)                    | 80-100              | 90-130    | 90-130   | 90-150      | 90-150      | 50-130      |
| 最大单脉冲能量(mJ)<br>Max.Single Pulse Energy (mJ)     | 0.5                 | 1         |          |             |             |             |
| 输出光纤长度(m)<br>Delivery Cable Length (m)          | 2(可定制) Customizable |           |          |             |             |             |
| 电控特性 Electrical Characteristics                 |                     |           |          |             |             |             |
| 输入电源 (VDC)<br>Power Supply (VDC)                | 24                  |           |          |             |             |             |
| 功率调节范围(%)<br>Power Range (%)                    | 10~100              |           |          |             |             |             |
| 功率消耗(W)<br>Power Consumption (W)                | 120                 | 170       | 240      | 340         | 340         | 450         |
| 其他特性 Other Characteristics                      |                     |           |          |             |             |             |
| 尺寸(mm)<br>Dimensions(mm)                        | 391×260×120         |           |          | 396×360×123 | 391×260×120 | 396×360×123 |
| 冷却方式<br>Cooling                                 | 风冷 Forced Air       |           |          |             |             |             |
| 工作温度(°C)<br>Operating Temperature (°C)          | 0-40                |           |          |             |             |             |