

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

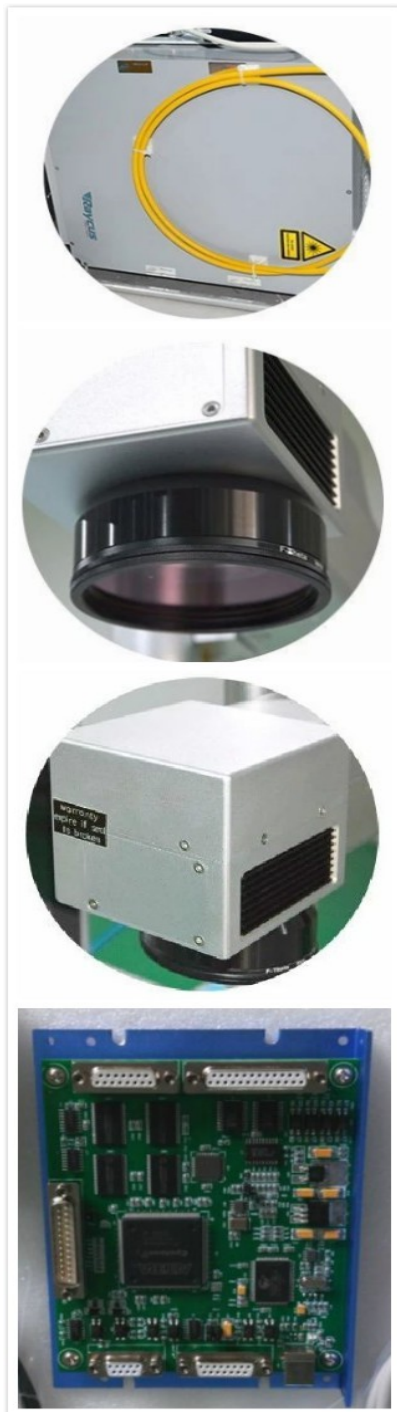
Sample



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.

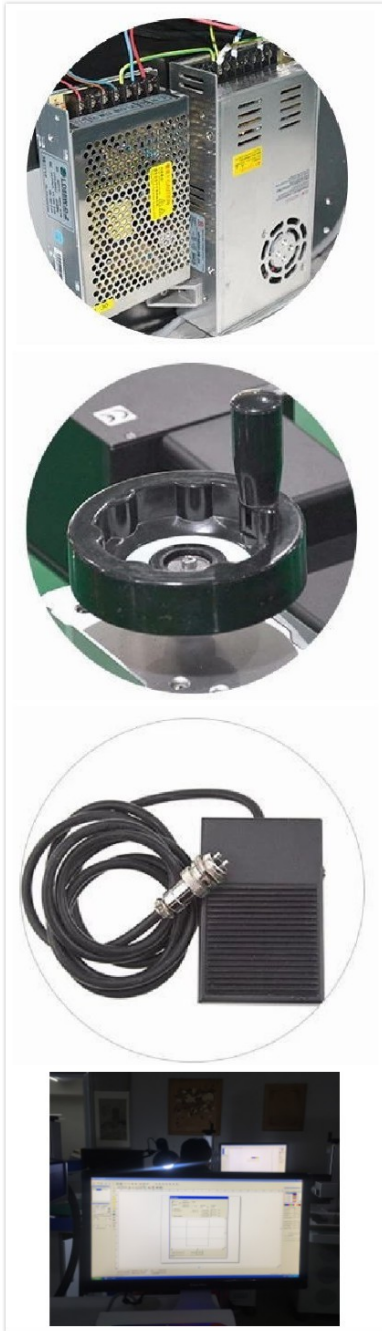
4. EZCAD control card

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.



Machine Details





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.

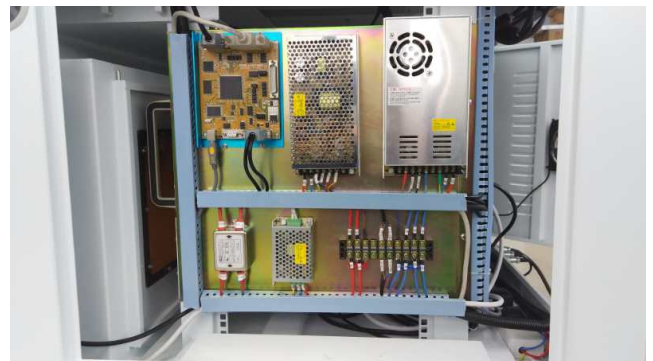
7. Foot pedal

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.

Our Advantage



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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2. Every cable line is marked put together by a card board easy teach and avoid & check mistake

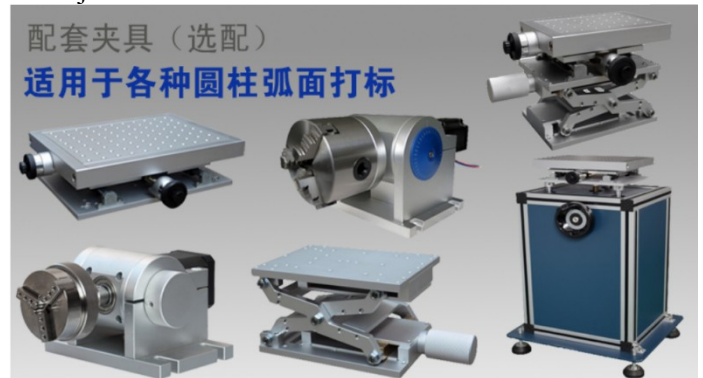
4. Computer is industry computer Effectively prevent computer from interfering with marking signal

5. Software after JCZ EZ CAD,our engineer process it again to more stable to track machine work situation also with supplier & factory permanent contact information.

6. Warranty
 Laser source Raycus type 2 years
 Whole machine 1 year except lens

7. Technical solution
 Except common marking technical our engineers are good at designing & solving difficult solutions for abnormal marking range such as shift marking double side marking dislocation marking
 More than 10 years marking experience fast teaching on all process problems.

8. Complete accessory tools, customizable
 Available for all cylindrical cambered surface marking auto focus adjustable



Different Laser Source Power



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