



**3D Dynamic Focus**  
**Fiber Laser Marking Machine**



MRJ-FL-3D Series

**Chengdu MRJ-Laser Technology Co., Ltd.**

## Enterprise Profile:



MRJ-Laser is located in Hi-Tech Zone in Chengdu of Sichuan province, specialized in laser cleaning, marking, welding, visual inspection and related application control system's development, production and sales.

We own the first-class R&D center, with outstanding talent team and strong technical force, dedicated to provide all-around laser application solutions to meet the customization demands of laser equipment in different fields for worldwide customers.

We continuously introduced the international advanced professional technology, committed to the "small size, high speed, high precision, intelligentize" of laser equipment, have obtained a number of invention patents, with complete independent intellectual property rights, all products have passed EU CE and USA FDA certificates. Quality control strictly enforce the ISO9001 quality management system.

Our products have been widely used in industrial processing and laser intelligent manufacturing fields, and exported to many countries and regions such as USA, Germany, Italy, Poland, Russia, Turkey, Spain, Brazil, Turkey, Vietnam, Indonesia, Japan and Taiwan, etc.

Depending on the leading technology in laser industry and always adhere to the principle of "Advanced technology leads market, excellent service rewards customers", MRJ-Laser is looking forward to your visit and cooperation, making a contribution together to Chinese laser industry.

## Company Advantages:



※ **Strict quality standards**

All products have received EU CE and USA FDA certificates, each equipment has to pass strict quality inspection before delivery.

※ **Independent intellectual property rights**

Focus on customized, personalized and intelligent laser equipment, with 8 invention patents and a number of intellectual property certificates.

※ **Personalized customized services**

Professional R&D team can provide you with complete customized service for different optical, mechanical, circuit control, hardware and software system.

※ **Excellent after-sale service**

Two years warranty, lifetime maintenance service, implementing 24 hours online after-sale response.



## Equipment Introduction:

- ※ MRJ-FL-3D Series dynamic focusing fiber laser marking machine can be applied to any curved surface, sphere, step and irregular surface marking;
- ※ The laser focal length can be changed through the focusing axis, can also realize deep carving, to meet all 3D marking requirements;
- ※ Equipped with MM3D dynamic focus control software designed by Eastern Logic Inc, to realize high precision marking on any shaped objects.

## Performance Parameters:

Model	MRJ-FL-3D20	MRJ-FL-3D30	MRJ-FL-3D50
Laser Power	20W/Fiber	30W/Fiber	50W/Fiber
Pulse Energy	1.2 MJ	1.3 MJ	1.5 MJ
Repetition FREQ.	20K-80KHz	30K-80KHz	50K-120KHz
Laser Wavelength	1064nm		
Marking Field	≤300mm*300mm	≤400mm*400mm	≤700mm*700mm
Min. Line Width	30um		
Marking Speed	≤6000mm/s		
Support Font	TrueType Font, AUTOCAD Single Line Font, Custom Font		
1D Bar code	CODE39/CODE128/ITF/CODEABAR/EAN/UPC, etc.		
2D Bar code	QR/PDF417/Data Matrix(ECC200), etc.		
Input File	PLT/DXF/DWG/BMP/JPG/JPEG/PNG/TLF, etc.		
3D Model	Support STL Format		
Input Power	Single Phase 110v/220v/50-60Hz		
Power Consumption	≤600W	≤800W	≤1000W
Cooling Method	Air Cooling		
Control Interface	USB2.0		
Warranty time	2 years		

## System Characteristic:

- ※ The max marking field is 400mm\*400mm, the max scan height is 130mm;
- ※ The galvanometer scanner focus beam size is 50um, response speed can meet precision filling up to 5000mm/s;
- ※ Support 3D model importing, and 2D graphics can be directly coated or projected on the built-in commonly used curved surface;
- ※ Equipped with shining blue LED and unique streamlined design of marking head, specially applied for high-end laser market;
- ※ Adopt integrated structure, small size, fine sealing, to ensure the stability of long time working.

## Samples:

