



**GREWIN INDUSTRIAL GROUP CO.,LTD.**

**TEL/WhatsApp: +86 18622096679**

**Mail: admin@coilwindingmachinechina.com**

**Web:www.coilwindingmachinechina.com**



## **GW-FLM30W Fiber laser marking machine**



### **Fiber laser marking machine model advantages:**

Many innovative technologies of GW-FLM30W series products bring users unparalleled system performance

1. Fully enclosed laser cavity design, dust and no frost. Long life, low failure rate;
2. Innovative full shield laser outer cavity design, no lead exposed, suitable for industrial production environment, anti-interference;
3. Full air cooling refrigeration, high control accuracy, good laser stability, 24 hours continuous operation at room temperature;
4. New fiber laser source, small current power supply, long service life of pump module;
5. Modular structure design, convenient system integration and equipment maintenance;
6. Easy to learn operation software, so that users can easily get started.

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**Fiber laser marking machine main features:**

The product has the characteristics of short pulse, excellent beam quality, high precision, peak power, high modulation frequency and so on. So in metal etc

The processing application of the material surface can significantly reduce the thermal melting effect and achieve perfect marking effect. Not just on metal surfaces

Line marking, also suitable for non-metallic materials, such as ABS, nylon, PES, PVC, polycarbonate and so on.

At present, this series of products has been widely used in metal, electronics, computer peripherals, communications, electrical appliances, watches, glasses, jewelry,

Clothing, gifts, instruments, trademark signs, automobile manufacturing, ship manufacturing and aerospace industry and many other industries of the product table

Surface text, symbols and other marking and micro processing. A rotating work belt is attached for marking circular surfaces, such as ring protection

Warm cup, etc., can be four-axis linkage marking.

**Technical parameters of fiber laser marking machine:**

<b>Continuous output power</b>	≥30W
<b>Laser type</b>	RC optical maser
<b>Repetition rate</b>	20-100KHz
<b>Laser type</b>	Optical fiber 1064mm
<b>voltage</b>	220V
<b>Cooling system</b>	Built-in air cooling
<b>Adaptive material</b>	All metal materials and more than 85% plastic materials
<b>Laser mode M2</b>	< 1.5
<b>Marking depth</b>	0.001-0.5mm(depends on material)
<b>Minimum line width</b>	0.02mm
<b>Laser spot diameter</b>	0.015mm
<b>Minimum character</b>	0.015mm
<b>Repeated positioning accuracy</b>	0.002mm
<b>Marking range</b>	150*150mm
<b>Positioning mode</b>	Red light positioning, focusing
<b>Environmental requirement</b>	Temperature: 0-40 ° C Humidity: 0-95%
<b>Overall power consumption</b>	500W
<b>Maximum speed</b>	20000mm/s
<b>weight</b>	65kg
<b>Maintenance requirement</b>	1 year after-service

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## **Software control system functions:**

A new generation of high-speed data processors with newly upgraded control software, from the precision generation of machining graphic signals to marking High-speed real-time processing of control signals creates a model for high-end applications in the industry.

1. Support dot matrix and vector marking
2. Support file formats generated by commercial and engineering drawing software;
3. Rich graphics editing functions;
4. Powerful circle and text editing functions
5. Support the font and editing of all languages in the world;
6. Directly call Type, True Type, AFM, CID, CFF, SFNT, PRF and other fonts;
7. The marking task can be arbitrarily decomposed, freely arranged, combined and adjusted;
8. Graphics merge processing function;

## **Import and export files**

1. Import files support PLT and DXF files;
2. Support bitmap files;

## **General and special bar code, two-dimensional code**

1. Support standard industry code, 2/5 code, ASCII code, 128 code, EAN13 code;
2. EAN8 code, UPCA code, UPCE code marking;
3. Support DATAMATRIX, Qr code, PDF417 code, 16K code; .

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