



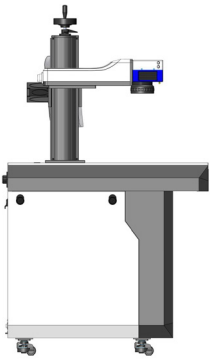
MOPA Colour Fiber Laser Marking Machine

MY-M30F-II



OVERVIEW

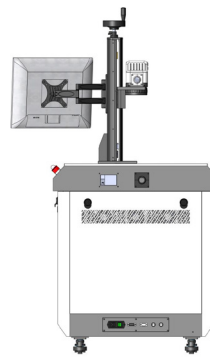
The MOPA Color Fiber Laser Marking Machine is an advanced, high-speed solution for precision marking and color engraving on various materials. With a fiber laser source lifespan of 100,000 hours, it offers unmatched durability and efficiency, consuming less than 450W. This machine delivers incredibly detailed, 1-micron resolution markings and features an integrated air cooling system for maintenance-free operation. Its compact, dust-resistant design and compatibility with popular software like CorelDraw and AutoCAD make it ideal for industries requiring reliable, high-performance marking, from electronics to automotive manufacturing.



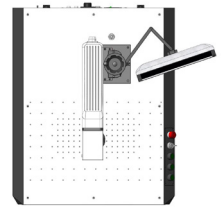
Left



Front



Back



Top

APPLICATIONS

This versatile laser marking machine is designed to work with a wide range of metals, including stainless steel, brass, aluminum, steel, and iron, as well as various non-metallic materials like ABS, nylon, PES, PVC, and Makrolon.

- **Electronic Components:** Ideal for marking resistors, capacitors, chips, printed circuit boards, computer keyboards, and more.
- **Mechanical Parts:** Suitable for bearings, gears, standard parts, motors, and other machinery components.
- **Instruments:** Perfect for engraving on panel boards, nameplates, and precision instruments.
- **Hardware Tools:** Effective on knives, tools, measuring devices, and cutting tools.
- **Automobile Parts:** Compatible with marking pistons, rings, gears, shafts, bearings, clutches, lights, and other automotive components.
- **Everyday Items:** Great for customising handicrafts, zippers, key holders, sanitary ware, and more.

FEATURES



Long Lifespan

Equipped with a fiber laser source rated for over 100,000 hours of reliable operation.



Energy Efficient

Consumes less than 450W, making it both economical and environmentally friendly.



High Speed

Achieves marking speeds up to 7000mm/s, surpassing traditional laser marking machines.



Superior Laser Quality

Delivers a 1-micron definition, providing 10x the clarity of conventional lasers.



Maintenance Free

Designed to operate for 8-10 years without the need for consumables.



Direct Laser Output

The fiber laser beam is emitted directly from the source, eliminating the need for beam path adjustments.



High Precision Scan Head

Features a high speed, high precision scan head with a compact, dust and water resistant design.



Stable Control System

Includes a USB compatible controller for fast, stable transmission, optimised routing, and easy operation.



Large Compatibility

Supports various file formats, including PLT, BMP, JPG, TTF, DXF, SHX, AI, and more, from software like CorelDraw, Illustrator, Photoshop, AutoCAD, and SolidWorks.



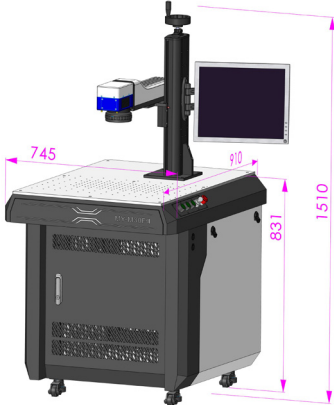
Integrated Air Cooling

Features an air cooling system that offers superior performance, with no maintenance required.

ADVANTAGES

- **Open Worktable:** Features an open worktable design for easy material loading and unloading, with compatibility for customised automation systems.
- **High-Quality Laser Source:** Equipped with a top brand GZ / JPT M7 laser source, offering adjustable pulse width and frequency for optimal processing, including vibrant color marking on stainless steel and deep black marking on aluminum.
- **Versatile Material Compatibility:** Suitable for marking on all metals, including gold, silver, copper, stainless steel, and aluminum, as well as select non-metallic materials like ABS, acrylic, and PVC.

SPECIFICATIONS

Parameters	MY-M30F-II
Power	20W / 30W / 60W / 80W / 100W / 120W / 200W
Laser Wavelength	1064 nm
Standard Marking Area	150mm x 150mm
Optional Marking Area	70 x 70 mm / 100 x 100 mm / 200 x 200 mm / 300 x 300 mm
Marking Depth	≤ 2mm
Marking Speed	7000 mm/s
Minimum Line Width	0.015 mm
Minimum Character	± 0.006 mm
Fiber Laser Source	GZ / JPT M7
Scan Head	Galvo-Tech / WISE SCAN
Controller & Software	JZC Controller & EzCAD2 Software (Optional EzCAD3 or SAMLight)
Lifespan of Fiber Laser Module	100,000 hours
Beam Quality	M2 < 1.3
Focus Spot Diameter	< 0.01mm
Output Power of Laser	Continuously adjusted 10% ~ 100%
Output Frequency of Laser	Continuously adjusted 1 ~ 4000 KHz
Power Stability (8h)	< ±1.0 % rms
Operating System	Windows 10 / 11 - 64bits
Cooling Mode	Air Cooling
Operating Temperature	0 - 45 °C
Voltage	220V / 50HZ / 1PH or 110V / 60HZ / 1PH
Power Consumption	< 850W
Dimension (L x W x H)	745 x 910 x 1510 mm <div style="text-align: right;">  </div>
Net Weight	140 kg
Gross Weight	175 kg

MAIN CONFIGURATIONS



GZ / JPT M7 Model Laser Source

Beam quality of M2 <1.3
Power stability of $\pm 1.5\%$ rms (8 hrs)
100,000 hour lifespan
Integrated air cooling system



F-theta Lens

This top branded lens features a small and precise focus spot for accurate and high-quality marking results, as well as having a low power consumption.



Professional Computer System

English OS W8/10 + Intel i5 CPU + 4G Kingston Storage + 120G Kingston SSD + Asus Motherboard + Asus DVD Drive + LOGI Keyboard & Mouse + DELL Monitor.



Scan Head

Designed specifically for high-end laser marking applications, with speeds up to 7,000 mm/s, exceptional precision, minimal temperature drift, and high stability.



Control System & Software

BJJCZ controller offering stable performance and high reliability.
User-friendly EZCAD software with broad compatibility, supporting multiple file formats such as PLT, BMP, JPG, DXF, & AI.



MW Laser Power Supply

Featuring voltage stabilising protection, stable performance, and a long lifespan.

MARKING & ENGRAVING SAMPLES

