



Fully Enclosed Desktop Marker

JPT EM7 MOPA Laser Marker

20W / 30W / 60W / 80W

OVERVIEW

The Fully Enclosed Desktop Marker is engineered to deliver precise, high-quality engraving across a wide range of materials. Utilising advanced laser technology, it provides exceptional accuracy and fast processing speeds when etching intricate designs, serial numbers, barcodes, logos, and text onto surfaces such as wood, acrylic, leather, glass, coated metals, plastics, and more. The fully enclosed design not only creates a cleaner, more professional workspace, but also enhances operator safety by containing the marking area during operation.

Designed with ease of use in mind, the system features a user-friendly interface and intuitive software that make setup and operation straightforward for both first-time users and experienced operators. Reliable safety features, combined with an efficient cooling system and robust construction, ensure consistent performance, long-term durability, and minimal maintenance, making it an ideal solution for workshops, production environments, schools, and small businesses.



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



Durable Build

Robust construction designed for long-term industrial use.



Air-Cooled System

Stable operation without the need for external water cooling.



Compact Vertical Design

Space-saving structure suitable for workshops and businesses with limited floor space.



User-Friendly Control Software

Compatible with standard file formats (DXF, PLT, AI, BMP, JPG, etc.) for easy integration.



Cost-Effective Operation

Virtually maintenance-free laser source with a lifespan of up to 100,000 hours.



High-Speed Galvo Scanner

Ensures fast marking with consistent accuracy and minimal distortion.



Versatile Applications

Suitable for metals (stainless steel, aluminum, copper, titanium, etc.) and select non-metal materials.



Fiber Laser Source

Delivers sharp, precise, and high-contrast markings on a wide range of metals and plastics.

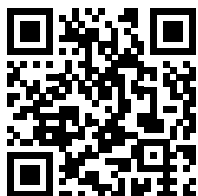
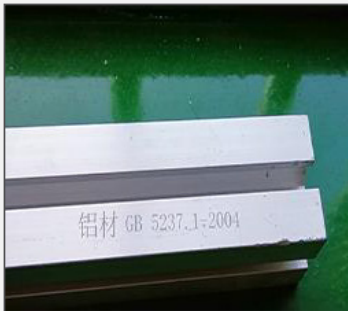
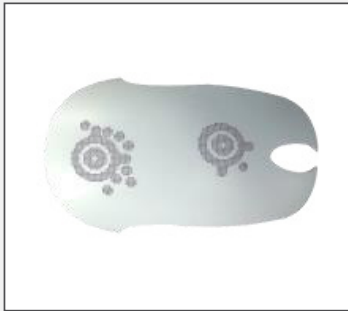
ADVANTAGES

- **Fully Enclosed Design:** Improves operator safety by containing the laser process and reducing exposure to light, dust and fumes, while also giving the machine a clean, professional appearance suitable for offices, workshops and production areas.
- **Flexible Marking Parameters:** Adjustable laser power and frequency settings provide greater flexibility for different materials and marking effects, including deep engraving, annealing, surface marking and even colour marking on some metals.
- **Enhanced Performance:** The fibre laser beam is delivered directly through the fibre source, eliminating the need for regular optical path alignment and helping maintain reliable, stable performance over time.

SPECIFICATIONS

Parameters	Fully Enclosed Desktop Marker
Laser Wavelength	1064nm
Standard Marking Area	150 x 150 mm
Marking Speed	7000mm/s
Minimum Line Width	0.015mm
Minimum Character	0.2mm
Repeated Precision	±0.003mm
Lifespan of Fiber Laser Module	100,000 hours
Beam Quality	M2<1.3
Focus Spot Diameter	<0.01mm
Output Frequency of Laser	1 ~ 600KHz
Cooling Mode	Air Cooling
Voltage	220V/50HZ/1-PH or 110V/60HZ/1-PH
Power Requirement	<450W
Dimension (LxWxH)	450 x 800 x 750 mm
Weight	75 kg

MARKING & ENGRAVING SAMPLES



lasermachines.com.au
 1300 561 963
 Factory 17 / 116 - 118 Abbott Rd,
 Hallam, VIC 3803
 Unit 2 / 56 Central Hills Drive,
 Gregory Hills, NSW 2557