

Fiber Laser Marking System

This fiber laser marking system offers a long lifespan and small size, utilizing an air-cooling system. It provides high precision, low operation cost, and energy saving capabilities.



Overview

High-Efficiency Fiber Laser Marking System

This advanced fiber laser marking system utilizes a pulsed laser device with excellent beam quality ($M2 < 1.5$) to deliver precise, permanent marking on a wide variety of materials. Designed for industrial efficiency, it features an all-fiber architecture that eliminates the need for complex collimation adjustments and water cooling. The system is compact, energy-efficient, and capable of operating in demanding environments, making it an ideal solution for high-precision applications in manufacturing and product identification.

Technical Performance

Output Peak Power	25 kW
Pulse Width	< 30ns
Beam Quality (M2)	1.5 M2

Operational Efficiency

Maintenance Level

Low Maintenance • No Water Cooling Required • Energy Saving

Total Power Consumption	500 W
Cooling Method	Air-cooling

Application Compatibility

Primary Industry Applications

- Electronics (IC, Keyboards)
- Kitchenware
- Sanitary Ware
- Metal Decoration
- Medical Devices
- Automotive Parts

Compatible Materials	Metals, Plastics, Ceramics, Glass, Hardware Tools
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Design & Environment

Environmental Tolerance

- Impact resistant
- Vibration resistant
- High-temperature tolerant
- Dust resistant