

50W YAG Laser Marking System

The 50W YAG laser marking system utilizes a solid-state laser with a 1.064 μ m wavelength for creating permanent marks. It is designed for use on metals, alloys, oxides, ABS, epoxy resin, printing, and ink.



Overview

Industrial YAG Laser Marking System

The 50W YAG Laser Marking System is a robust solid-state laser solution designed for high-precision industrial marking. Utilizing a krypton lamp energy source, it delivers consistent infrared light at a 1.064 μ m wavelength, ideal for processing metals, alloys, and various plastics. The system features a computer-controlled resonance mirror for automatic, high-speed marking with exceptional repetition accuracy.

Performance Metrics

Max. Laser Power

50 W
Power

Max. Linear Speed	7000 mm/s
Marking Depth	0.3 mm
Repetition Accuracy	0.003 mm

Technical Specifications

Laser Wavelength	1.064 μ m
Laser Repetition Frequency	50 kHz
Minimum Line Width	0.015 mm
Minimum Character Size	0.3 mm
Power Consumption	5 kW

Compatibility & Software

Supported File Formats	PLT, PCX, DXF, BMP
Supported Font Types	SHX, TTF
Compatible Software	CorelDraw, AutoCAD, Photoshop

System Dimensions

System Footprint

Component	Dimensions (L x W x H mm)
Optical System	1200 x 430 x 1200
Cooling System	380 x 630 x 740
Control System	560 x 660 x 1000

Applications

Suitable Industries

- Electronics
- Automotive
- Jewelry
- Hardware
- Communication Products
- Medical/Precision Components