

# Diode Side-Pump Laser Marking System

This diode side-pump laser marking system is designed for precision material processing. It is suitable for marking electronics, instrumentation, and various industrial components.



## Overview

### High-Precision Diode Side-Pump Laser System

The GL-DP50 is a versatile diode side-pumped laser marking system designed for high-precision processing on both metal and select non-metal materials. Capable of marking characters, vector drawings, bitmaps, barcodes, and serial numbers, it offers professional-grade marking quality suitable for electronics, precision instruments, and automotive components. With advanced features like flying marking, circumrotate marking, and high-speed operation, this system provides a comprehensive solution for industrial coding and artistic engraving.

## Technical Specifications

### Laser Performance Metrics

**1064 nm**

Wavelength

**12 W**

Laser Power

**50 KHz**

Frequency

### Marking Capabilities

Feature	Specification
Marking Area	100mm x 100mm (200mm x 200mm Optional)
Min Laser Width	0.03mm
Smallest Character	0.3mm
Max Marking Speed	0-7000mm/s
Max Engraving Depth	1mm

## System Compatibility

Compatible Software	CorelDRAW, Photoshop, AutoCAD
Supported Graphics Formats	DST, PLT, BMP, DXF
Machine Power Consumption	2 KW

## Application Scope

### Industries Served

- Electronics
- Communication
- Wiring
- Precision Instruments
- Automotive
- Hardware
- Building Materials

### Applicable Materials

Various Metals • Metal Oxidation Products • Glass • Plastic