

# Diode-Pumped Solid-State Laser Marking System

This laser marking system utilizes a diode-pumped solid-state laser for creating permanent markings on various materials. It features a computer-controlled interface and high-resolution scanning system for precise and efficient operation.



## Overview

### High-Precision Laser Marking System

This Diode-Pumped Solid-State Laser Marking System is designed for high-efficiency, permanent marking on a wide range of metal and non-metal materials. Utilizing advanced semiconductor pump technology, it offers superior electro-optic conversion efficiency, stable output, and a long service life. With its computer-controlled CNC system, this machine supports rapid product development and flexible manufacturing, making it an ideal solution for precision engraving in industries such as electronics, communications, and precision engineering.

## Key Advantages

### Benefits

- High electro-optic conversion efficiency
- Low power dissipation with stable laser output
- Long service life semiconductor pump
- Fully automatic operation with CNC control
- Rapid prototyping capabilities with no mold requirements

## Applications

### Best Suited For

Electronic components, Communication equipment, Precision metal parts, Meters, Gift accessories, PVC tubes

## Technical Specifications

### Performance Metrics

**50 W**

Max Power (Model 50)

**75 W**

Max Power (Model 75)

**7000 mm/s**

Max Linear Speed

**0.015 mm**

Min Line Width

### Model Comparison

Feature	TQL-DP-50	TQL-DP-75
Laser Wavelength	1064nm	1064nm
Marking Depth	d0.5mm	d0.5mm
Repeatability	±0.003mm	±0.003mm
Electrical Source	220V/50Hz/15A	220V/50Hz/20A