

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