

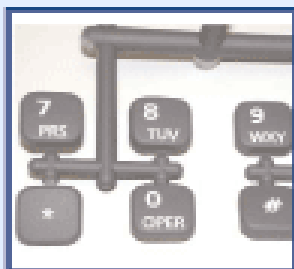
Diode-Pump Lasers

While similar in construction to a Flash-Lamp system, the Diode-Pump laser uses a diode pump to "pump" or energize the crystal. Unlike the "white" light crystal produced by the Krypton lamp, the diodes produce a wavelength optimal to the YAG crystal. Thus, the diodes use less energy to generate the same relative power output.

Applications

- **Micromachining:** Mould Form Manufacturing, Cutting, Drilling, Ablation, Diamond Cutting, Micro-Welding, Micro-Bending
- **Semiconductor Manufacturing:** Resistor Trimming, Capacitor Trimming, Crystal Trimming, Mould Cutting, Wafer Scribing, Wafer Repair, Mask Writing, Disk Texturing
- **Solar Cell Manufacturing:** Edge Isolation, Scribing, Laser-Fired Contacts, Thin Film Structuring
- **Marking:** Plastics (ID Cards, Grey Scale, Electrical Components, ICs, Day and Night Design, Keyboard, Labels); Wafer (Soft Marking, Hard Marking, Flip Chip Marking); Medical Components; Metals (Standard & Deep Engraving)
- **Scientific Purposes and R & D:** OPO Pumping, Fluorescence Excitation, Lidar, Spectrometry, LIBS
- Medical Treatment and Instrumentation

Samples of Diode-Pump Lasers



Specifications

Diode Pump Laser System: 25,50,75, or 100 Watt Multimode Nd: Yag Laser Systems(IR1064nm,Green 532 nm, and UV 355nm) CW or Q-Switch output

Optional Configuration: Laser- TEM₀₀, Low-Order Mode & Multimode; Marking Fields-2" to 12" available

Electrical Service: 230+/-10% VAC, 1 Phase, 50/60 Hz

Fonts/Graphics: 0.030" to maximum field size. Helvetica, italic, script, block, gothic fonts. OCR-A, Barcode 39 and 2 of 5, CI Matrix, PDF 417. Vector and bitmap graphic imports including Auto CAD, linear, ring and angular writing modes.

Marking Speed: 275"/second marking speed; 1,900"/second positioning speed

Machine Options: Class-I Safety Enclosure; Programmable XY Table; Manual/Power Z-axis & other Automation/Part Handling Systems to meet your manufacturing requirements.

Marking felids (Other lenses sizes available):

Lens	5"
Square Marking Field	3.89"x3.89"
Line Width	0.006"
Step Resolution	0.001"
Repeatability	+/-0.001"

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