



# Laser Coding

## Laser Marking & Laser Engraving Systems

Marking Solutions offers a complete line of Vanadate, Fiber, Green Wavelength and Galvo CO2 laser marking machines to suit your marking and coding needs. Our lasers are designed to fit a number of industrial and packaging applications, whether you need to mark in static or continuous mode, and onto a variety of materials, such as glass, plastic, paper, cardboard, foils, coated metals, and building materials. Laser coding doesn't involve any inks or chemicals, making it a very clean, eco-friendly and cost-efficient method of marking your product.

### Typical Markings

Amongst other markings, common markings include:

- Logos
- 2D codes
- QR codes
- Serial or batch numbers

### Materials

- Paper
- Foils
- Wood
- Glass
- Metals
- Plastics
- Coated materials
- Ceramics
- Leather and many others.

### Examples of Typical Applications

#### - Vanadate Laser Marking:

The term vanadate laser is usually used for lasers based on neodymium-doped vanadate crystals. Vanadate lasers are renowned for providing better quality marks due to their small, accurate spot size.

#### - Fiber Laser Marking:

A fiber laser is a laser in which the active gain medium is an optical fiber, doped with rare-earth elements. In layman's terms, it is a type of solid-state laser, where the laser light passes through the fiber, amplifying it to create a high-quality beam, which enables marking.

#### - Green Wavelength Laser Marking

Green wavelength lasers are fiber-coupled, diode-pumped, solid-state green wavelength lasers, which create high beam quality and laser stability. They offer extra power and speed for precision marking, and are the ideal choice for laser marking, scribing, trimming and other material processing applications.

#### - Galvo CO2 Laser Marking

The CO2 laser, otherwise known as a carbon dioxide laser is one of the more commonly used. These lasers are the highest-power, continuous-wave lasers.



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solutions