

# Fantom<sup>®</sup> Series



The Fantom F30 and F100 are world class CO<sub>2</sub> Laser Marking and Engraving Systems for OEM integration and stand alone operation on manufacturing and assembly lines. The F30 and F100 models are based on the latest generation of folded wave guide laser resonators, the most powerful DSP (Digital Signal Processor) Controllers, and the fastest Direct Imaging and Scanning Technologies.

OFFERING A FULL RANGE  
OF LASER MARKING AND  
CUTTING SOLUTIONS



# Fantom<sup>®</sup> Series

## SYSTEMS SPECIFICATIONS

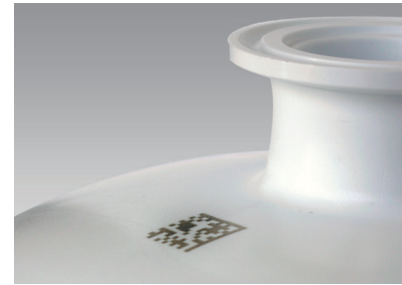
Each system is delivered with a state of the art graphical based marking and engraving software and also includes text based architecture which allows for multiple file conversion capabilities. This helps make the systems operation intuitive and easy for different industrial environments.

### Standard Features

- Easily re-configured for direct installation into a production line; can connect to external control device
- Designed for maintenance-free Direct Part Marking [DPM] applications
- Built to operate under high shock, vibration & dust conditions
- Compact and lightweight laser head with easy alignment
- F30 system is air-cooled - F100 is water cooled
- FiberScan C3™ Software
- Stand alone operation
- Plug & Play capable
- F100-3D Autofocusing Z Axis and 3D Marking Package Optional

### Applications & Materials

- Common Applications: Alphanumeric, Logos, Serial Numbers, Part Numbers, Lot / Date Codes, Schematics, Complex Graphics, Pictures, Logos Etching (Material Vaporization)
- OCR Code Marking (Human and Machine Readable)
- Direct Parts Marking, Bar-coding, 2D Data Matrix
- 2D Symbolologies, Linear Barcodes
- Lot Codes, Date Codes
- Production In line Integration
- IC Chip Package Marking
- UID - Unique Identifier
- Marking "On the Fly"
- Anodized Aluminum
- Surface Annealing
- Surface Texturing
- Surface Marking
- Surface Etching
- Stainless Steel
- Composites
- Ceramics
- Graphite
- Titanium
- Ablation
- Rubber
- Plastics
- Acrylic
- Wood



### Safety Considerations During Operation

10.6 µm wavelength laser light emitted from this laser system is invisible and may be harmful to the human eye. Proper laser safety eyewear must be worn during operation.

### 21 CFR 1040.10 Compliance

This product is designed for OEM integration into other equipment. The product is a Class 4 laser as designated by the CDRH and it does NOT MEET the full requirements for a stand-alone laser system as defined by 21 CFR 1040.10 under the Radiation Control for Health and Safety Act of 1968. It is the responsibility of the equipment manufacturer to meet all of the regulatory requirements for the final system.



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1101 N Keller Road • Orlando, FL 32810 USA

Tel: 407.829.2613 • Toll Free: 1.888.418.2613 • Fax: 407.804.1002

www.laserphotonics.com • marketing@laserphotonics.com