



A DIVISION OF FONON TECHNOLOGY INTERNATIONAL

COMPANY PROFILE

LEADING THE FIBER LASER REVOLUTION





PROFILE

Laser Photonics is a division of Fonon Technology International, the world renowned inventor and manufacturer of equipment based on Zero Width Laser Cutting Technology™ (ZWLCT™) for the Semiconductor and Flat Panel Display Industries.

Laser Photonics designs and manufactures world class CO₂ and Fiber Laser equipment for automotive, aerospace, medical, electronics, defense, semiconductor and flat panel display markets. The applications cover laser cutting, scribing, dicing, singulation, UID marking and engraving. LPC holds several worldwide licenses for innovative and 'unique to the industry' laser products and technologies.

The product line, introduced by Laser Photonics, demonstrates significant advancements over existing technologies in Fiber Laser applications, laser material processing, UID, direct parts marking applications and laser based deep engraving. These advancements translate into numerous cost and performance benefits to the end users of LPC equipment.

LPC products are less expensive, higher in quality, simpler in operation and more efficient than other comparable products on the market making them more attainable. Millions of small and mid sized companies who were not previously able to acquire laser equipment because of high cost and complicated operation, are now investing in LPC products.

LOCATION

Our office is located on 318,000 sq feet of manufacturing, engineering and office space in the Orlando area. Laser Photonics is based in one of the focal points for international laser development and manufacturing Orlando, Florida, USA. With over fifteen major R&D and manufacturing institutions located in the

area, Laser Photonics has immediate access to both highly trained personnel and some of the most sophisticated laser research resources in the country. We are minutes from the industry sponsored laser program at the University of Central Florida.

MAJOR CUSTOMERS

Government Agencies, Naval Ship Yards, Bosch, Gables Engineering, Smith Aerospace, General Electric, General Motors, Seagate, Heraeus, PPG Industries, Champion Aerospace, Metaldyne, Dupont, Mitsubishi, Schott, and Jenoptik.

PRODUCTS



TITAN Series

The Titan Series are large flatbed multipurpose Fiber Laser cutting systems built from state of the art technology. These systems are equipped with a high-power, energy-efficient Fiber Laser, an advanced direct drive motion control platform and single pallet shuttle table.

Using a new high performance energy-efficient Fiber Laser, these systems will achieve a level of quality and detail that is unprecedented in the industry for laser cutting. It can cut/engrave aluminum, anodized aluminum, alloy metals, stainless steel, mild steel, copper, brass, non transparent plastics, plaques, create stencils and more.



FIBER LASER MARKING SYSTEMS

The FiberTower™ Marking System is a series of products for direct part marking (DPM) and chip marking. These systems were specifically designed for maintenance-free OEM applications.

The FiberTower™ Marking System makes conventional Nd:Yag lasers for industrial applications obsolete. It delivers a diffraction limited laser beam directly to the work site via a fiber cable. These compact service-free lasers are designed to operate under high shock, vibration, and dust conditions, with relatively high humidity and temperatures. This system does not require routine replacement parts or materials, has a compact size, negligible power consumption and trouble-free air-cooling.

Fiber Lasers can be used for a number of applications including: cutting, marking, engraving, ITO removal, silicon wafer and chip marking, 2D barcoding, 3D parts prototyping and marking "On-The-Fly" (Marking in Motion).



HANDHELD FIBER LASER MARKING SYSTEM

HandHeld Fiber Laser Marking System is a state-of-the-art DPM alternative to labeling or dot peen matrix systems. It can be utilized for commercial use, power generation and defense applications. Some good examples are weapon identification for such purposes as service marks, inventory, and renewal; permanent marking on all stationary and non movable equipment such as ships, missiles, bombshells, airplanes, tanks, etc; service marks on commercial airliners and non movable equipment within the industrial, energy, power generation and gas/oil industries.



OEM FIBER LASER MARKING KIT

i-Series Fiber Laser Marking KIT was specifically designed for maintenance-free OEM applications. It delivers a diffraction limited ($M2 < 1.05$) laser beam directly to the work site via a metal sheathed single mode fiber cable. These compact service-free lasers are designed to operate under high shock, vibration and dust conditions with relatively high humidity and temperatures. They do not require routine replacement parts or materials, they require only a low voltage power source. The system has a compact size, reduced utilities and trouble-free air cooling. Fiber-to-fiber architecture means a robust, monolithic design with no optics to align or maintain, no mechanics to stabilize and a focusable power and high power density needed for the most demanding applications.



SBM 1200 FL

The SBM1200FL is a flatbed multipurpose Fiber Laser cutting and engraving system built from state of the art technology. This System is equipped with customizable Fiber Laser power and an advanced direct drive motion and control platform.

This system will achieve a level of quality and detail that is unprecedented in the industry for laser cutting and engraving. It can cut/engrave stainless steel, mild steel, copper, brass, aluminum, non transparent plastics, plaques, create stencils and more.



Link

The Link will achieve a level of quality and detail that is unprecedented in the industry for laser cutting and engraving. It can cut microtubes, surgical instruments, stencils and much more. It has a granite base and can perform effective N_2 , Ar or O_2 gas-assisted cutting under pressures of up to 250 psi. Ease of installation gives the system "plug-and-play" characteristics and a quick startup time.

APPLICATION RESEARCH CENTER

Laser Photonics maintains an applications lab for processing customer samples and assisting with process development. LPC applications lab has the latest testing equipment to analyze all of your application needs. For marking applications we provide the highest quality analysis of each and every mark using our Mark Quality Assessment™ Software (MQA™). With our MQA™ Software, we have the ability to guarantee and verify the accuracy and quality of our marks. We will prepare and research all applications within a matter of two to three weeks and provide a detailed report free of charge.

RESEARCH & DEVELOPMENT

Laser Photonics delivers only high quality products, which consistently meet and exceed customers expectations. LPC worldclass scientific and engineering staff guarantees the latest technology available and the continuation of excellence in all of the products.

SERVICES & SUPPORT

Laser Photonics' field service and application engineers are available for installation, training and startup assistance for each specific system. They are fully trained to assist you and your production team during the most critical phases in your project. Every sale includes 1 - 2 day training at the Laser Photonics facility in Lake Mary, Florida.

OUR TYPICAL PROGRAM OFFERS THE FOLLOWING TRAINING:

- Related laser basics and principles of operation
- Laser safety
- Advanced replacement conditions
- Applications & material processing
- Marking Quality Assessment™ Software
- Laser specifications, advantages and limitations
- Engineering consultation for OEM integration
- I/O description and customization
- Custom laser safety requirements
- Parts identification and mark quality verification
- Graphic art creation
- System operation
- Warranty component replacement
- Advanced software training
- COM server training

LASER EQUIPMENT RENTAL NETWORK

Creating the FiberTower™ line of products has created an entirely new market for revenue generation. Until now, there has not been any laser equipment rental opportunities in the U.S. or worldwide. This is due to the high cost, complicated equipment and transportation damage risk factors. With LPC's simple and compact design, the feasibility of the Rental Network has been established through the LaserDepot portal (www.laserdepot.net). This unique process allows customers to minimize the up front expenditures and familiarize themselves with the equipment prior to purchase.

Laser Photonics, LLC is the industry leader in developing high-tech Fiber and CO₂ laser systems. Laser Photonics exclusively specializes in advanced, innovative, latest generation laser systems, processes and technologies. We focus on cutting edge Fiber Laser technology for material processing. We have delivered hundreds of Fiber Laser cutting and engraving machines to countries worldwide. Contact us to learn more about our marking, cutting and engraving systems.

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