LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT
OR SCATTERED RADIATION
PRODUCT WITH LASER CLASS IV

*mini*GIANT™

FIBER LASER MARKING SYSTEM

SN20200831MIG01E

LASER® PHOTONICS

MiniGIANT™ Fiber Laser Marking System

The MiniGIANT™ evokes a striking and professional appearance. This design concept was developed to bring industrial marking capabilities to commercial production environments. This light, portable, user-friendly model can be easily operated by tradesmen.

Features Highlight

• The world's thinnest laser marking system (only 5.4 cm wide)

• Unique, foldable design

• 20W fiber laser with 100,000 hours of working life

High Tech Applications: The MiniGIANT™ line produces a wide variety of Permanent, Legible, Non-Removable Marks on a wide variety of materials.

GSA Contract Holder
Contract GS-21F-0041T

UID
Unique Identification is Transformation

Applications and Types of Marks

ITO or Paint Removal	Surface Texturing
Backlit Button Marking	OCR Code Marking
Medical/Automotive Coding	"On-The-Fly" Marking
IC Chip Package Marking	Alphanumeric Marking
2D UDI/UID Barcoding	Logos and Schematics
Part Numbering	Sequential Serial Numbers
3D Engraving/Deep-Engraving	Lot Codes and Date Codes
	Ablation (Anodized, Painted or Coated)

Materials

Aluminum (Anodized/Polished/Cast)

Stainless Steel and Mild Steel

Titanium and Nickel

Copper and Brass

Carbide

Polycarbonate and Polypropylene

Painted Metal Alloys

Chrome and Cast Iron

Wood and Ceramics

Rubber and Silicon

Marble and Stone Composites

PVC

Plastic and Graphite

Fabrics and Leather

Acrylic and MDF

Galvanized Metals

And More!
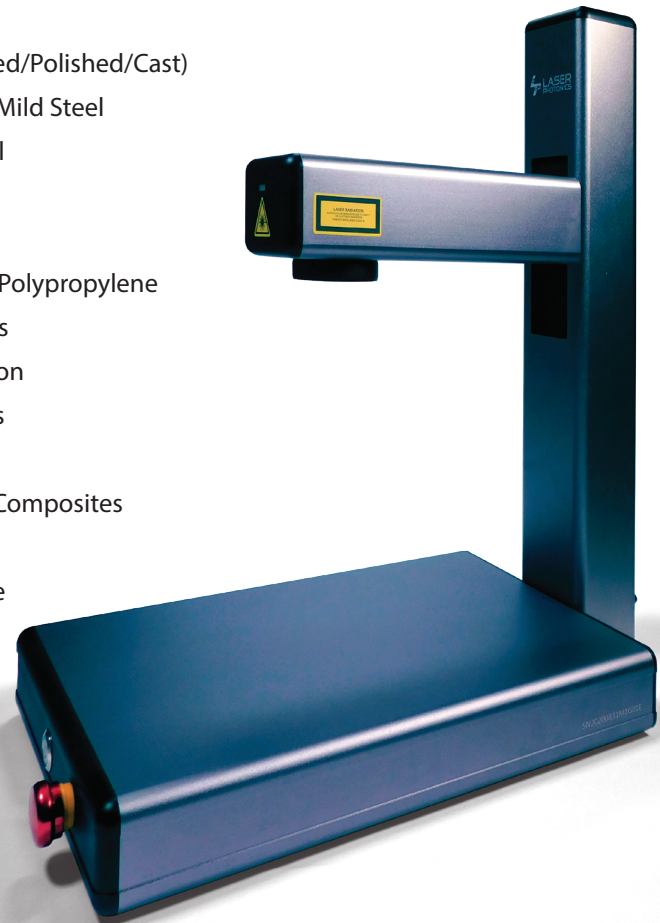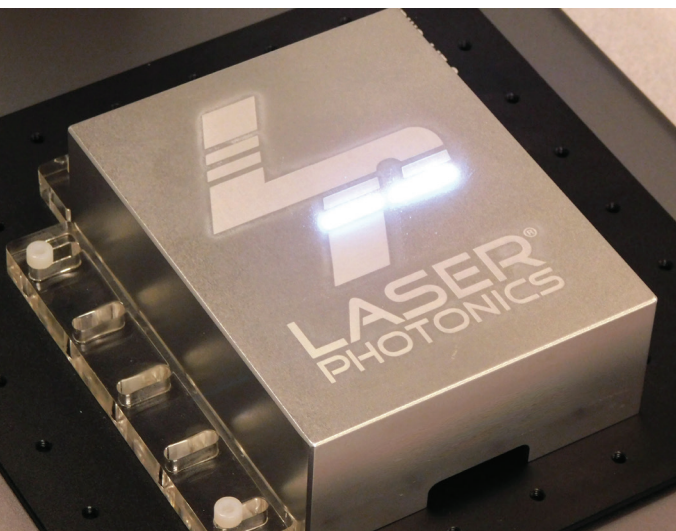
*mini*GIANT™
FIBER LASER MARKING SYSTEM

MiniGIANT™ by Laser Photonics

The MiniGIANT™ is the world's first affordable Class IV 20 Watt Laser Marking Machine. It is the thinnest laser marking system on the market. Measuring in at 5.4cm, and weighing only 10kg, this desktop laser is not only portable—it is easy to carry! The MiniGIANT™ is a commercial-grade marking system that is compatible with both 32-bit and 64-bit Windows 10 Operating Systems. It requires zero maintenance and comes with an integrated fiber cable-hidden structure, as well as a two-year manufacturer's warranty. This state-of-the-art, low to medium volume, commercial-grade laser marking system can be used in most light manufacturing materials processing environments for a fast, precise, and incredibly productive approach to subtractive manufacturing.

Additionally, the MiniGIANT™ is the only laser marking machine in its class to offer an optional adaptable Class I product enclosure.

The MiniGIANT™ Marking Laser includes a 20W Fiber laser along with a 160mm F-Theta lens proving a 4" x 4" marking area.

MiniGIANT™ Design: Main Features:

Standard features include:

- Standard wall plug operation with high electrical efficiency
- Standard supply voltage (110/220 VAC) 8 amps
- Standard wall-plug power source with high electrical efficiency
- 20W Fiber or 20W CO2 laser with 4" x 4" marking area
- Repeat Pulse Frequency Range 30 – 60 kHz
- Laser Photonics Fiberscan C3 LT software
- Free RVT (Remote Video Training)
- Optional easy access single door Class I product enclosure with CDRH compliant interlocks
- Emergency stop and laser off switch
- Optional Backpack carrying case
- Optional fume Extractor
- Laser MTBF of 100,000 hours
- Repeat Accuracy 0.01mm

20W Fiber Laser:

Fiber Lasers are a great leap forward in processing all metal and coated soft material applications. Our Fiber Lasers are easily integrated into industrial processes in comparison with conventional laser due to:

- State-of-the-art, air-cooled, Ytterbium Q-switched fiber laser (up to 2mJ) for marking on virtually any material
- CW or Q-switched fiber laser options with high repetition rate
- Excellent TEM00 beam quality (M2 < 1.05)

- Exceptionally High Reliability with over 30,000 hours estimated maintenance-free operation
- Very high 100,000 hours MTBF
- Flexible cable-beam delivery system
- Optimized for Direct Part Marking (DPM) applications including UDI/UID Barcoding and 3D Deep Engraving
- Red diode pointer for easy application setup
- Two-year manufacturer's warranty on laser components

FiberScan C3™ / FiberScan C3™ LT Software
Proprietary Software Options:

- FiberScan C3 LT is designed to operate on the Window platform
- FiberScanC3 supports remote access data base connectivity designed to operate on the Window platform

This user-friendly software entails a fully integrated driver, remote diagnostic capabilities for worldwide support and multiple hardware interfaces for the ability to execute any CO^2 or Fiber Laser marking system.

These databases include a materials application system and a fixture database. The materials application system allows a user to define a laser process, give the process a unique name and subsequently link the process to graphic programs. A process can include multiple passes using different values for power, frequency and speed on each laser pass.

The database can contain and manage many thousands of different process 'recipes'.

The fixture database allows the user to control fixture offsets and define step and repeat processes. Just like the material database, any WLJ job can use any fixture defined in the fixture database.

The link allows all appropriate graphic and process information to be automatically loaded when the operator selects the lasing file.

At any time the operator can change the links, for example a lasing job that is normally marked on stainless steel, can be marked on brass by selecting the brass process file prior to executing the job program file.

Operators don't have the need to remember fonts and logos for a particular job because FiberScan C3™ automatically performs all required graphic loading.

FiberScan C3™ does not require users to learn any programming languages or special codes and provides all of the flexible and graphic controls that users are accustomed to such as radial marking, aspect control, character spacing, angular rotations and full justification.

DANGER
INVISIBLE LASER RADIATION -
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS IV LASER PRODUCT

AVOID EXPOSURE
INVISIBLE LASER RADIATION
IS EMITTED FROM THIS APERTURE

COMPLIES WITH 21 CFR
1040.10 AND 1040.11

Requirements beyond those listed above will be quoted upon request. Contact Laser Photonics office or visit our website at www.laserphotonics.com if you need any assistance determining which capabilities best suit your needs.

Safety Considerations during Operation: 1064 nM 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 at all times.

21CFR 1040.10 Compliance: Fiber Lasers are a Class 4 laser as designated by the CDRH and 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. As an added level of security, a redundantly switched safety interlock system helps preven accidental exposure to excess laser radiation. Plus the system is equipped with an electrical power manual reset, a key-locked laser power switch and a remote interlock connector. Finally, the system has audible and vislbe emission indicators with five (5) scond emission delay settings. All these features, in combinaion, constitute the laser radiation safety syste which allows the MiniGIANT™ Series of equipment be used in a safe and secure manner.

LASER® PHOTONICS

The most trusted brand of insutrial laser machinea
for the most demanding industries.

Laser Cleaning • Laser Marking • Laser Engraving • Laser Cutting • 3D Metal Printing

Aerospace • Automotive • Defense • Nuclear • Shipbuilding • Space Exploration

| **Titan Series** | **OEM Marking Kits** | **Cutting Systems** | **LaserTower™ Series** |

Laser Photonics is the leading industrial brand in high-tech laser systems for laser marking, laser cutting, laser engraving, and other material processing applications. Our systems are, currently and historically, used by manufacturers in the automotive, aerospace, industrial, defense, electronic, semiconductor, flat panel and medical industries around the world. Contact us to learn more about our marking, cutting and engraving systems.

Contact Us Today
**and learn what clean laser technology
cen do for youer business**

Laser Photonics
1101 N Keller Rd., Suite G, Orlando, FL 32810 • Orlando, FL 32810 USA

Tel: 407.477.5618 • Toll Free: 844.44.LASER • Fax: 407.804.1002

www.laserphotonics.com • info@laserphotonics.com

4

*mini*GIANT™
FIBER LASER MARKING SYSTEM