TiTAN FX Series

The Titan FX Series high-power fiber laser cutting system is designed to consistently meet the high demands of the metal fabricating industry. The Titan FX Series is an entirely new state of the art design combining the latest developments in motion engineering, PC-based CNC control and fiber laser technologies. It is the most advanced industrial grade fiber laser cutting and engraving system available on the market.

THE TITAN ADVANTAGE

• Saves money—the Titan consumes less than 5% of the power required by conventional CO2 laser systems
• Cuts highly reflective metal
• Adaptive thick-to-thin beam shaping adjusts dynamically to metal thickness
• Large-format, up to 6’ x 12’ (larger custom sizes available)
• Maintenance-free, requires no consumables
• Recalibrate your gantry with the push of a single button
• Upgrade your Titan laser wattage in the field, without the need for a field engineer
• Industrial-grade reliability: 100,000 hours MTBF

Manufacturers which cut and engrave highly-reflective metals will particularly benefit from the Titan, particularly producers of construction equipment, aluminum vehicles, kitchenware, copper and brass gaskets, food processing equipment of any kind, and materials used in the aerospace and defense industries.

TiTAN Series

STANDARD FEATURES | OPTIONAL FEATURES | PROPRIETARY MOTION CONTROL SYSTEM | FLEX LOAD™ AUTOMATION PROVIDES VERSATILITY | CUSTOMER SUPPORT & SAFETY

LASER SOURCE | PROPRIETARY MOTION CONTROL SYSTEM | FLEX LOAD™ AUTOMATION PROVIDES VERSATILITY | CUSTOMER SUPPORT & SAFETY

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The Titan excels at quickly cutting highly-reflective metals, such as copper, aluminum, and brass.

When compared to a CO2 laser of equal wattage, Laser Photonics technology is 3x faster when cutting stainless, mild, or galvanized steel.

The Titan excels at processing several different types of materials, including:

- Aluminum
- Stainless steel
- Mild steel
- Galvanized steel
- Armor plating
- Anodized aluminum

- Coated & plated metals
- Alloy metals
- Opaque plastics
- Copper
- Brass

Your Titan will save time and money from its first day on the manufacturing floor. New technology provides immediate savings and extended ROI, including the lowest cost of operation, least downtime, and lowest power consumption of any cutting platform in the industry.
STANDARD FEATURES

Control Terminal
The Titan FX is operated from a PC/NC base control unit equipped with a 15" [381mm] display. The standard control unit is equipped with three USB ports and one RS45 LAN network connection.

Laser Safety Starter Kit
Included with the standard system: an optical cartridge tool changing kit, a lens cleaning kit, and protective goggles.

System Manuals
The following manuals are included, in English. Other languages are available upon request:
• Operating & Maintenance Manual
• Programming Manual
• Electrical Manual
• Parts Manual

Diode Pointer
Red aiming beam for visual alignment.

Optical Cartridge (Non-Contact)
The optical cartridge allows for fast replacement of focal lenses, minimizing service downtime and increasing productivity. It is recommended that additional cartridges be obtained for reduced downtime during servicing.

Laser Cutting Head
The Titan arrives standard with a top performance laser cutting head for high accuracy and throughput.

Class 1 Enclosure
The enclosure surrounding the laser cutting area protects operators from scattered optical radiation that is generated by the fiber laser during cutting operations. Operations can be observed thru specially-filtered windows in either side of the enclosure.

Control System Software
The Titan FX Series uses PC-based software to couple the vision module with the motion system that coordinates the laser and all interaction between the software and the machine control hardware. This software operates on any standard desktop or industrial PC. Servo loops are closed on the drives. Motion generation and synchronization are centralized at the control terminal. Motion execution is decentralized at the drives.

Single-Pallet Shuttle System (Motorized)
The Titan FX Series comes standard with a 4’ x 6’ [1.2m x 1.8m], 5’ x 10’ [1.5m x 3m] or 6.5’ x 13.12’ [2m x 4m] motorized single pallet shuttle system.

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### Standard Features
- **Laser Source**: Proprietary Motion Control System
- **Fiber Laser Equipment Experts**

### Optional Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LASER SOURCE</strong></td>
<td>Proprietary Motion Control System</td>
</tr>
<tr>
<td><strong>FLEX LOAD™ AUTOMATION</strong></td>
<td>FLEX LOAD™ Automation</td>
</tr>
<tr>
<td><strong>INVEST IN YOUR FUTURE</strong></td>
<td>Customer Support &amp; Safety</td>
</tr>
</tbody>
</table>

#### Class I Laser Safety Enclosure
- Surrounding enclosure of the laser cutting system used to filter the fiber laser-generated scattered optical radiation. It offers protection to operators and personnel in the area who are not wearing protective goggles and clothing from the diffused laser light during cutting operations.

#### Side Air Blow Unit
- The side air blow unit contains dual directed nozzles to re-direct anti-spatter compounds with high pressure air to keep particles off the material, lens and nozzle during cutting operations.

#### External Exhaust System
- Laser Photonics offers a dust collection system manufactured to remove large particles from the exhaust stream.

#### Fiber Laser Upgrades (up to 8kW)
- The Titan’s laser is modular and available in 1kW, 2kW, or 4kW increments, allowing users to increase the laser cutting power up to 8kW. The system is field-upgradable, allowing users to easily adapt the system to changes in their production environment.

#### Additional Optical Cartridges
- Spare optical cartridges are recommended for quickly changing between material thicknesses. Duplicate optical cartridges of the same lens can also allow for quick maintenance. Available optical Cartridges: 2.5”, 3.75”, 5”, 7.5”, 10.0” with washable static filters.

#### Remote Joystick
- Remote Joystick operation for minor axial adjustments.

#### Sheet Metal Clamps
- Pneumatic clamps are used to hold material in place while processing.

#### Corner Detector
- Device is used to assist the loading and unloading system to position material in the correct work area position.

#### Table Slats
- Knife Edges on 2” Center
- Knife Edge on 1” Center

#### Ultrasonic Materials Sensor
- Ultrasonic materials sensor determines the presence of materials in the working area and prevents misfiring of the laser.

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Fonon’s Advanced Fiber Laser

The Titan FX Series is built upon the latest innovations in fiber laser technology. Users enjoy the immediate following benefits:

Lowest Cost of Operation — The Titan FX consumes less than 5% of the power required by a CO2 laser system with the same output wattage (image: Cost of power consumption, by technology)

Placement Accuracy — The Titan’s laser provides the highest possible accuracy and repeatability, resulting in the smallest possible penetration point and the finest edge control

Modular — users can increase their laser cutting power in increments of 1kW, 2kW, or 4kW, to a maximum of 8kW

User-upgradeable—no need for a service by a field engineer

Adaptive Thin-to-thick Beam Shaping—The properties of the laser beam automatically adjust to process a wide range of material thicknesses, providing economical operation, superior edge quality on thick plate, and high-speed cutting of thin material.

Cleanest Cut in the Industry

CleanCut technology is an improvement on the precision and slimness of the laser beam itself. Conventional laser cutting methods create an area of discoloration, potential brittleness, and weakness in the material on either side of a cut known as the Heat Affected Zone.

CleanCut reduces or eliminates the Heat Affected Zone by producing a beam narrower than any conventional laser.

TurboPiercing technology

A standard on all Titan FX Series systems, TurboPiercing guarantees the fastest and most consistent piercing speeds available. Unlike conventional methods, TurboPiercing technology creates an accurate hole, avoiding unnecessary craters in the material.

Plasma Shield Technology

When transitioning from straight line cuts to corner cuts, Plasma Shield technology precisely restricts plasma generation. Conventional CO2 lasers cut a deformed edge while maneuvering corners, resulting in an inferior cut quality and minimizing production acceptance. Laser Photonics’ Plasma Shield technology tightly regulates acceleration speed, controlling plasma generation by while maintaining superior quality and production throughput.
LASER PHOTONICS TECHNOLOGY

LightBridge
The Titan’s bridge and motion unit is extremely light-weight, aiding its cutting velocity and acceleration.

Direct Drive Motion System
Traditional flatbed laser cutting systems which rely on rack and pinion, ball screws, or belt drives to traverse the cutting head face limitations common to all mechanical, high-contact systems, including wear and tear of the gears, reduced belt tension over time, and damage from the inevitable accretion of contaminants, grit, and dust generated by normal production conditions. The Direct Drive Motion System uses linear motion technology, effectively levitating the cutting head smoothly and quickly across the working surface area. Direct benefits include smoother, faster acceleration of the cutting head, less stress and vibration on the carriage frame, a lower system weight, and decreased maintenance requirements.

True Orthogonality Metal Sheet Alignment
The material positioning functions of the Titan are impervious to shock and vibration, increasing long-term reliability with no positioning error, and require no maintenance. Material in process will remain in alignment.

One-button Gantry Recalibration
Users can recalibrate the gantry instantly, ensuring the material is always in alignment, free of seizures and unplanned machine failures.

Sealed Feedback Sensor, Integrated laser source and Heat Exchange
Built to perform flawlessly in harsh industrial environments, the Titan FX design includes a reduced floorspace footprint and lower overall power consumption.

FLEX LOAD AUTOMATION
FLEX LOAD Automation Single or Dual Pallet Gantry Loading/Unloading system is an expandable high-production material transporter. The system will provide automatic loading of 4’ x 8’ (1.2m x 2.4m), 5’ x 10’ (1.5m x 3m) or 6.5’ x 13.12’ (2m x 4m) sheets onto the laser, and automatic unloading of the cut product and scrap from the laser table. One work table is provided for storage of the raw sheet stock, and a second work table/box collects the cut material.

- Meets all industrial material weight standards
- Dual load stations allow for multiple material processing
- Guaranteed precision motion control

FLEX LOAD
Un-loader-Vacuum (1 Table)
Automatic controls allow “hands off” loading and unloading of the laser table. The system is configured to handle sheet sizes from 4’ x 8’ (1.2m x 2.4m) up to 6.5’ x 13.12’ (2m x 4m) and thickness from 0.030” (0.762mm) to 1” (25.4mm).

FLEX LOAD DUO
Un-loader-Vacuum/Rakes (2 Tables)
FLEX LOAD™ DUO includes a rake for small parts handling. System allows faster throughput by positioning material in the laser working area while unloading onto a second table.
LASER PHOTONICS • A FONON BRAND

LASER Photonics products—cutting edge laser material processing equipment—are used worldwide in the automotive, aerospace, medical, electronics, food and beverage, defense, semiconductor and flat panel display industries. The products support laser cutting, scribing, dicing, simulation, marking and engraving. Laser Photonics holds several worldwide licenses for innovative and unique to the industry laser products.

Laser Photonics is the flagship brand of Fonon Corporation; Fonon designs laser-based material processing technologies for advanced industrial manufacturing and manufactures state of the art equipment utilizing those technologies. The company products empower manufacturers in the areas of application-specific 3D metal printing (additive manufacturing), and 2D and 3D laser cutting, marking and engraving applications (subtractive manufacturing).

The Titan FX laser cutting system, with its drastically-reduced base price, ease of installation, and low operational costs, opens the door for SMBs and enterprises to avail equally of the most advanced laser cutting technology.

CUSTOMER SUPPORT

These support and maintenance services are offered on an annual basis in one of two ways:

- An optional service for those products which are supplied on payment of a one-time fee
- Part of an annually licensed service contract

Laser Photonics offers a variety of customer service tools from training to field technical support and engineering, with a single goal of providing all the necessary tools to compliment Laser Photonics’ customer needs. The company’s reputation in customer care has been proven through numerous repeat orders from satisfied customers, references, testimonials and awards received by Laser Photonics for its consistently exceptional response to the market.

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.

21 CFR 1040.10 Compliance

This product is a Class 1 laser as designated by the CDRH and MEETS the full requirements for a Class IV 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 red safety eyeglass safety system helps prevent accidental exposure to excess laser radiation. Plus, the system is equipped with an electrical power manual reset, interlocked beam power switch and a remote interlock switch. Finally, the system has visual laser emission indicators with five (5) second emission delay settings. All these features, in combination, constitute the laser radiation safety system, which allows the equipment to be used in a safe and secure manner.

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## LASER PHOTONICS - TITAN Series SPECIFICATIONS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>Titan 48</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Flat Bed</td>
</tr>
<tr>
<td>Max. cutting size</td>
<td>1270 mm x 2489 mm</td>
</tr>
<tr>
<td>Machine table height</td>
<td>838 mm (33&quot;)</td>
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<tr>
<td>Max. load weight</td>
<td>447 kg (986 lbs)</td>
</tr>
<tr>
<td><strong>Axis Stroke</strong></td>
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<tr>
<td>X</td>
<td>1295 mm (51&quot;)</td>
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<tr>
<td>Y</td>
<td>2514 mm (99&quot;)</td>
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<tr>
<td>Z</td>
<td>50.8 mm (2&quot;)</td>
</tr>
<tr>
<td>Feed Rate</td>
<td>X, Y: 30 m/min (1200 in/min)</td>
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<tr>
<td>Rapid Rate</td>
<td>X, Y: 90 m/min (3600 in/min)</td>
</tr>
<tr>
<td>Positioning Speed</td>
<td>X-Y axis 300 m/min; Z-axis 30 m/min</td>
</tr>
<tr>
<td>Repeatability</td>
<td>X, Y, &amp; Z ±0.005 mm (0.0002&quot;)</td>
</tr>
<tr>
<td>Cutting Head</td>
<td>3-Axis with 100mm lens/ 7.5° focal distance</td>
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<tr>
<td>Z-axis profiler</td>
<td>Non-Contact</td>
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<tr>
<td>Drive Feed Method</td>
<td>Direct Drive</td>
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<tr>
<td>Worksheet Clamps (option)</td>
<td>3 Clamps; 1 Locator</td>
</tr>
<tr>
<td>Worksheet lifter (option)</td>
<td>5 mm (0.20&quot;) of lift travel</td>
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<tr>
<td>Assist Gas Selector</td>
<td>Programmable Selection</td>
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<td>Air Supply (only for machine and when the shop air assisted cutting is used)</td>
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<td>Gas Supply</td>
<td>Max: 2.48 Mpa (360 psi)</td>
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<td>Power Supply</td>
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## LASER TYPE

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<tr>
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<tbody>
<tr>
<td><strong>Optical Parameters</strong></td>
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<tr>
<td>Wavelength</td>
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<tr>
<td>Nominal output power</td>
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<td>Output range</td>
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<td><strong>Electrical Parameters</strong></td>
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<td>Electrical requirements</td>
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<td>Typical power consumption</td>
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<tr>
<td>Direct modulation</td>
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<tr>
<td><strong>General Parameters</strong></td>
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<tr>
<td>Max. cooling water consumption</td>
<td>m³/h</td>
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<tr>
<td>Cooling water temperature</td>
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<tr>
<td>Weight</td>
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<tr>
<td>Ambient temperature</td>
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</table>