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Press Release



Introducing the Titan FLS 48, High Power Fiber Laser Cutting System

Unsurpassed Speed and Quality for Metal Cutting

Cutting metal is a common application in many industries and is currently accomplished with either mechanical or laser systems. Many companies are now replacing their mechanical systems with laser technology because lasers produce superior edge quality, less waste material and increased production speed. Currently, the most common laser technologies available for metal cutting are CO₂ or YAG lasers. High power Fiber Lasers, however, are rapidly moving to the forefront as their unique advantages are beginning to be realized. For example, Fiber Lasers used in metal cutting applications do not cause deformation of



the metal or burnt edges. Fiber Lasers are quickly being considered the lasers of the 21st century and have the potential to completely replace CO₂ and YAG lasers for metal cutting applications.

Laser Photonics, LLC introduces the Titan FLS 48. This is the first [high power Fiber Laser cutting system](#) equipped with a single pallet shuttle table designed by Laser Photonics. The system is capable of large scale industrial cutting jobs and is ideal for applications such as aircraft skin fabrication and cutting of stainless and mild steel, aluminum and opaque plastics.



Typically, aluminum is a difficult material to process with conventional CO₂ and ND:YAG laser

cutting systems. Aluminum is very reactive and absorbs a large amount of heat when exposed to the laser beam. The Titan offers high power with a small HAZ (Heat Affected Zone), allowing it to cut highly reflective metals, such as aluminum, with the greatest speed and accuracy. The Titan is great for cutting intricate designs with superior edge quality.

One of the most unique features of the Titan is its power efficiency. This high power, maximum throughput laser cutting system uses approximately the same amount of power as three vacuum cleaners. Other laser systems designed for the same purpose are more than double the size of the Titan and consume massive amounts of power.

The Titan features a 2,000 to 5,000 Watt upgradeable Fiber Laser, Class I safety enclosure and direct drive motion control platform. This system is excellent for deep engraving and for cutting highly reflective metals and materials. The Titan has the smallest HAZ (heat affected zone) in the industry and requires no optical system alignment, laser service or laser replacement parts. This flawless design offers ultra low power consumption resulting in the lowest operating costs among all laser types.

Laser Photonics, a division on Fonon Technology International, designs and manufactures state-of-the-art Fiber and CO₂ laser marking, cutting and engraving systems for the aerospace, automotive, industrial and electronics industries around the world. For more information please call 1-888-418-2613 or visit us on the web at www.laserphotonics.com.

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