

Laser Photonics Corporation Utilizes New Precitec Technology on Custom Laser Cutting System

ORLANDO, FLORIDA, UNITED STATES, April 27, 2018 /EINPresswire.com/ -- Laser Photonics Corporation adds advanced cutting technology from laser material processing specialist Precitec, Inc. to develop its Custom [Laser Cutting](#) System by utilizing Precitec's beam-shaping optics.

Laser cutting works by directing the output of a high-powered, focused laser beam, melting the material and leaving an edge with a high-quality surface finish. These machines offer a complete solution for the laser-based cutting of thin, medium, and thick material thicknesses in different types of metals from highly reflective (copper, brass, aluminum) to steel, stainless steel, titanium, and more.



Each custom [laser cutter](#) has a fully-integrated system that monitors the cutting process and provides users with relevant information. The high quality heads ensure processing with up to 15 kW of laser power and cut stainless steel up to 40mm (1.5 "). The process can be utilized on a single or dual shuttle table, on cutting systems ranging from 4' x 8' to 7' x 13' (2m x 4m). Each system is equipped with the Precitec ProCutter Solid State Laser cutting head and Autofocus Sensor, providing unmatched quality for thick metal cutting.

The performance advantage of this laser cutting system is Direct Drive Motion System (DDMS) technology, a maintenance-free magnetic-based motion platform that is superior to any other mechanical motion system simply because it is an order of magnitude lower in resistance. All other competing technologies require larger, high-power consumption motors to offset higher-resistant motion systems that need routine replacement of parts due to continuous friction based wear and tear.

Another significant technology advantage is the use of fully-sealed encoders that permanently eliminate conditions for laser placement errors and material jamming accidents associated with optical encoders that occasionally break or lose location accuracy due to accumulated debris obscuring the optical location functionality.

These laser cutting systems are geared toward companies involved in ship building, military equipment manufacturing, as well as companies that produce construction equipment, aluminum vehicles, kitchenware, copper and brass gaskets, food processing equipment, and materials used in the aerospace and defense industries.

Laser Photonics is the industry leader in developing high-tech Fiber, UltraFast, UV, CO2 and [Green laser](#) systems, specializing in advanced and innovative processes and technologies. For more information about Laser Photonics' Custom Laser Cutting Systems, visit www.laserphotonics.com or call (407) 804-1000.

Precitec, Inc. is the expert in laser material processing and optical measuring technology, manufacturing laser cutting heads from high-quality materials and state-of-the-art technology. For more information about Precitec, visit www.precitec.us or call (248) 446-8100.

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