## IPG Photonics Launches LightWELD™, Revolutionary Handheld Laser Welding System

IPG Enters Handheld Welding Market to Provide Fabricators a More Simple and Flexible Solution

OXFORD, Mass., November 05, 2020 (GLOBE NEWSWIRE) -- IPG Photonics Corporation, the leader in high-power fiber lasers and amplifiers, today announced the launch of Light**WELD**, a new handheld laser welding system. The Light**WELD** product line enables fabricators to benefit from the greater flexibility, precision and ease of use enabled by laser-based solutions over traditional welding products.

*IPG Light**WELD** Handheld Laser Welding System*

Designed and built with patented and patent pending IPG fiber laser technologies, Light**WELD** represents a paradigm shift from all other handheld laser welders available due to its extremely small size and weight, and unique air-cooling. This groundbreaking portability is realized from the same continuous innovations by IPG that increased laser output powers and decreased form factors year-over-year. Compared with traditional MIG and TIG welders, Light**WELD** enables dramatically faster welding, is easier to learn and operate, and provides consistent, high-quality results across a wide range of materials and thicknesses with low heat input and aesthetic finishes with minimal or no filler wire.

“The Light**WELD** handheld laser welding system is another example of revolutionary fiber laser innovation for which IPG is renowned,” said Trevor Ness, SVP Worldwide Sales. “This is the first truly functional and portable laser welder that brings superior laser technology to the hand welding market for the first time in history.”


*Light**WELD** Base Unit and Welding Gun*

Simple controls, including 74 stored preset and user-defined process parameters, allow novice welders to be trained and welding in a matter of hours, reducing labor costs while increasing quality, consistency and productivity. Experienced users of traditional welding methods such as MIG and TIG will benefit from the more rapid and flexible processing capabilities of Light**WELD**, which welds thick, thin and reflective metals with minimal distortion, deformation, undercut or burn-through.

*Fixtureless Joining of Materials with Dissimilar Thicknesses*

Unlike traditional methods, welding fixtures are simpler or not needed, metals do not need to be pre-brushed or ground completely clean, and even novices can reliably weld materials with dissimilar thicknesses and high/low electrical conductivity. In addition, the heat-affected zone is minimized, as is the need for traditional post-processing grinding or polishing that increases productivity, reduces scrap and the cost-per-part.

*Light**WELD** Rear Panel Connectivity and Automatic Air-Cooling*

Laser power up to 1500 watts is easily adjusted with intuitive controls that can quickly dial in optimum weld settings for various materials and thicknesses. Select stored modes provide up to 2500 watts of high peak power for even greater welding capability.

*Light**WELD** Turn-key Laser Welding System*

Light**WELD** comes standard with wobble welding that provides up to 5 millimeters of additional weld width, increasing capability while providing highly aesthetic seams. Other standard features include a 5-meter delivery cable enabling increased part access, connections for gas and external connectivity, multi-level sensors and interlocks for operator safety, and a laser-welding gun with wobble/scan capabilities that supports wire feeder and welding tip configurations that optimally match joint types.

Light**WELD** further enhances IPG's corporate sustainability programs as it is designed to enable a more environmentally friendly welding process offering low electric consumption, low noise operation, and reduction of consumables, clean up and scrap disposal.

For more information and to see the product in action visit: HandheldLaserWelder.com

**About IPG Photonics Corporation**

IPG Photonics Corporation is the leader in high-power fiber lasers and amplifiers used primarily in materials processing and other diverse applications. The company's mission is to make its fiber laser technology the tool of choice in mass production. IPG accomplishes this mission by delivering superior performance, reliability and usability at a lower total cost of ownership compared with other types of lasers and non-laser tools, allowing end users to increase productivity and decrease costs. A member of the S&P 500® Index, IPG is headquartered in Oxford, Massachusetts and has more than 26 facilities worldwide. For more information, visit www.IPGphotonics.com.

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