

IPG Photonics Announces Delivery of Five Kilowatt Single-Mode Fiber Laser to First U.S. Customer

*Fiber Laser Leader Enters Additional Markets and Applications
With World's Brightest Commercial Solid State Laser*

OXFORD, MA, March 10, 2009 -- IPG Photonics Corporation, the world leader in high-power fiber lasers and amplifiers, announced today the delivery of the first five kilowatt single-mode fiber laser to a customer in the United States. This laser represents the latest development in the power scaling of IPG Photonics' patent-pending high-power single-mode fiber laser technology.

The Company's five kilowatt single-mode laser, the YLS-5000-SM is the world's brightest CW solid state laser in production, given the combination of output power and virtually perfect Gaussian beam-quality ($M^2 = 1.2$). IPG Laser GmbH, a subsidiary, previously delivered a similar unit to a European customer. The YLS-5000-SM is a turn-key package that offers a small footprint (850mm x 800mm) and high efficiency, at 22% AC, wall-plug.

Developed for industrial markets, the laser is well-suited for cutting-edge industrial applications. "This level of power and beam quality enables our industrial customers to use fiber lasers for applications which were not previously possible with other lasers, such as assist-free remote cutting as well as remote welding in the automotive, aerospace and shipbuilding industries" said Bill Shiner, Vice President of Industrial Markets. "The increased power and brightness of this laser allows customer to increase processing speeds and eliminate the use of expensive assist gasses in a mobile package."

IPG has also garnered interest in its industrial lasers within defense markets. "There is keen interest within the tactical directed energy market for single-mode lasers having output power in the range of 5kW to 10kW," commented Mike O'Connor, Director of Advanced Applications. "IPG industrial fiber lasers have a reputation for providing high power, reliability, efficiency and ruggedness in a compact package at a low cost. Now with this added combination of high power with near-perfect beam-quality, IPG offers a compelling and proven commercial laser solution for many tactical directed energy applications. IPG can customize the form factor and reduce weight to meet customer requirements."

About IPG Photonics Corporation

IPG Photonics Corporation is the world leader in high-power fiber lasers and amplifiers. Founded in 1990, IPG pioneered the development and commercialization of optical fiber-based lasers for use in a wide range of applications such as materials processing, advanced applications, telecommunications and medical applications. Fiber lasers have revolutionized the industry by delivering superior performance, reliability and usability at a lower total cost of ownership compared with conventional lasers, allowing end users to increase productivity and decrease operating costs. IPG has its headquarters in Oxford, Massachusetts, and has additional plants and offices throughout the world. For more information, please visit www.ipgphotonics.com.

Safe Harbor Statement

Information and statements provided by the Company and its employees, including statements in this press release, that relate to future plans, events or performance are forward-looking statements. These statements involve risks and uncertainties. Any statements in this press release that are not statements of historical fact are forward-looking statements. Factors that could cause actual results to differ materially include risks and uncertainties, including risks associated with finding new applications and markets for its multi-kilowatt single mode lasers, enabling new applications and providing solutions for different applications. Readers are encouraged to refer to the risk factors described in the Company's Annual Report on Form 10-K (filed with the SEC on March 13, 2008) and its periodic reports filed with the SEC, as applicable. Actual results, events and performance may differ materially. Readers are cautioned not to rely on the forward-looking statements, which speak only as of the date hereof. The Company undertakes no obligation to update the forward-looking statements that may be made to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

CONTACT:

Bill Shiner
Vice President, Industrial Markets
IPG Photonics Corporation
(508) 373-1144
bshiner@ipgphotonics.com

Michael O'Connor

Director of Advanced Applications
IPG Photonics Corporation
(508) 373-1271
moconnor@ipgphotonics.com

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