



## **IPG Photonics' New Line of Fiber Lasers with High Pulse Energy to Replace Flash Lamp-Pumped YAG**

*The Fiber Lasers are Cost-Effective for Spot Welding and Drilling*

OXFORD, MA, December 10, 2009 -- [IPG Photonics Corporation](#), the world leader in high-power fiber lasers, announced today four new fiber lasers designed to replace flash lamp-pumped long pulse YAG lasers. IPG's four new quasi continuous wave (QCW) fiber lasers feature peak pulse powers of 750 watts, 1,500 watts, 3,000 watts and 5,000 watts and energies from 7.5 joules to 50 joules per pulse. These air-cooled, compact units are substantially more cost-effective than conventional YAG lasers because of wall plug efficiencies greater than 30% and maintenance-free operation, in that there are no components that require replacement during ordinary operation over its useful life. IPG has begun shipments of the 750 watt and 1,500 watt peak power units with first shipments of the 3,000 watt and 5,000 watt units scheduled for the first quarter of 2010.

The YLR-X/Y-QCW-AC lasers offer outstanding pulse power and energy stability over the complete laser power dynamic range. IPG's new QCW fiber lasers also have exceptional beam quality with various options for the output fiber size available and BPP as low as 0.35 mm x mrad (single-mode version) up to 2 mm x mrad. Convenient plug and play design and fiber delivery system continues to be standard as on all IPG fiber lasers.

"In the long pulse operation mode, the new laser is ideal for spot welding, seam welding and drilling," said Dr. Valentin P. Gapontsev, CEO of IPG Photonics and a co-inventor of the laser line. "The CW mode of operation with power up to 500 watts allows fast cutting and makes these lasers a universal tool for many other applications. The laser covers a gap between our well known lines of nanopulsed lasers, covering the pulse duration range of 1 nsec to several  $\mu$ sec, and CW or high speed modulated series with an average power of 10 W to 50 kW. We believe that users will benefit from the many advantages of the modern QCW fiber over older flash lamp long pulsed YAG lasers that have a large share of the world laser market."

These new fiber lasers are available for requalifying in existing lamp pumped processes at IPG's application facilities in Oxford, MA, Santa Clara, CA, Detroit, MI, Burbach, Germany and IPG's applications labs in China, Japan, Korea and Italy. Retrofit services, including engineers familiar with system integration, are available to help customers replace older production lasers with energy-efficient fiber lasers from IPG.

### **About IPG Photonics Corporation**

IPG Photonics 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, telecommunications and medical ones. 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](http://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, including, but not limited to, those relating to suitability for various applications, benefits to users and advantages over YAG lasers. Factors that could cause actual results to differ materially include risks and uncertainties, including risks associated with downturns in the markets we serve, uncertainties and adverse changes in the general economic conditions of our markets, the Company's ability to penetrate new applications, the rate of acceptance and penetration of IPG's products, effective management of growth, intellectual property infringement claims and litigation, interruption in supply of key components, manufacturing risks, competitive factors including, uncertainties pertaining to customer orders, demand for products and services, development of markets for the Company's products and services and other risks identified in the Company's SEC filings. 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 12, 2009) 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:**

**USA**

[Tom Babcock](#)

Sales Manager

IPG Photonics Corporation

Direct: (408) 492-8832

IPG headquarters: (508) 373-1100

[tbabcock@ipgphotonics.com](mailto:tbabcock@ipgphotonics.com)

**Europe**

[Michael Grupp](#)

Applications Manager

IPG Laser GmbH

+49 (0)2736/4420-341

[mgrupp@ipgphotonics.com](mailto:mgrupp@ipgphotonics.com)