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New 1 kW, Fiber-Delivered Direct Diode System for Industrial Applications

Santa Clara, Calif., June 16, 2009 – Coherent Inc. (Santa Clara, CA) (Nasdaq: COHR) has introduced its first, fiber-delivered 1 kW direct diode laser system for industrial applications. In a highly reliable design based on closed-loop cooling, the HighLight™ 1000F offers a flexible, mobile solution for today's industrial applications. Specifically, the new HighLight 1000F is a high brightness system that produces 1 kW of output at 975 nm from a 600 µm core fiber having a numerical aperture of 0.22.

The primary applications for the HighLight 1000F are welding, cladding and heat treating of a wide range of metals and alloys. The fiber coupling allows the kW power to be delivered directly to the work piece – either 180° around a part or at angles. The laser system can even be placed up to 50 meters from the application! The compact design makes the HighLight 1000F ideal for robotic applications; in addition, existing accessories such as double focus heads, welding heads, and cutting heads can easily be adapted to Coherent's system – saving time migrating to this new, low cost technology. For manufacturing environments where multiple workstations are deployed, the HighLight 1000F is ideally suited for beam switching.

The HighLight 1000F is based on Coherent's proprietary, high reliability micro-channel cooled diode laser bar technology that typically provides over 20,000 hours of operation with virtually no maintenance. The HighLight 1000F was modularly-designed, therefore, making integration and field support easy.

When compared to traditional laser sources of equivalent power level, the HighLight 1000F delivers on low cost of ownership – starting with a low initial capital investment and continuing after purchase to include the best electrical to optical efficiency and lowest operating expense. Offering up to 30% electrical to optical efficiency, the HighLight 1000F continues to enable industrial laser applications in today's cost conscious market.

Founded in 1966, Coherent, Inc. is a Russell 2000 Index company and a world leader in providing laser-based solutions to the commercial and scientific research markets. Please direct any questions to Brian Faircloth, Product Line Manager, at 314-743-8967. For more information about Coherent, including product and financial updates, visit our website at <http://www.Coherent.com>.