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For Immediate Release:

TechniShow 2018: Application Optimized Laser Solutions from Coherent | ROFIN

Utrecht, Netherlands, March 15, 2018: From March 20 to 23, 2018, TechniShow in Utrecht will again be the international showcase for industrial production technology. Coherent | ROFIN, the world's largest laser manufacturer, will be there to display their extensive selection of application specific laser processing solutions at stand 07.C106. Here's a brief overview of just some of the innovative solutions the company will present:

HighLight™ Fiber Lasers: High Power. High Throughput.

The Coherent | ROFIN HighLight FL3000C is the company's first fiber laser with 3 kW of output power generated from a single fiber laser module. This yields the most compact possible design for a fiber laser of this power class. This compact laser can be equipped with either a 50 μm (15 m length) or 100 μm (20 m length) fiber.



Fig. 1: Extremely compact: Fiber laser with 3 kW output

HighLight FL lasers incorporate technical innovations and field-proven reliability into solutions that can be optimally tailored to enable higher throughput in many materials processing applications. The combination of various power levels and range of available fiber core diameters allow for precise matching with specific application requirements for a broad range of processing tasks. The lasers can operate in either CW or pulsed mode, at repetition rates of up to 5 kHz. The 1 μm output wavelength is strongly absorbed in many materials, and is especially suitable for processing highly reflective materials. These lasers are inherently immune to back reflections, thereby enabling safe processing of materials such as brass and copper. Furthermore, industry leading power control delivers long term stability and high process consistency in these applications.

All lasers of the HighLight FL Series, which range from 500 - 10,000 watts output power, are characterized by maximum efficiency and easily field serviced, modular pumping units, helping to reduce operating and maintenance costs.

Manual Laser Welding: High precision. High Flexibility. High Performance.

Coherent | ROFIN's extensive welding product portfolio includes the manual Desktop and Performance welding systems frequently used as workhorses in rough workshop environments. At the exhibition, visitors will get the chance to learn about the Performance welding solution in detail, as well as see it in action. Now in its 7th generation, the Performance continues to set the benchmark for the finest welding possible in a wide field of applications. The system also delivers high reliability and maximum user friendliness. Proven and tested controls, like a large touch-screen, the dynamic foot switch and weld assist functions, simplify everyday work. The patented SweetSpot resonator guarantees consistent weld quality and constant depth of focus from the first laser pulse to the last. The integrated TrueView hardware eliminates any parallax misalignments and enables a 100% hit rate, even when working out of focus.



Fig. 2: Performance manual welding system

All-in-one Marking Solution: High quality. High efficiency. High ease of use.

Coherent | ROFIN's laser workstation CombiLine Basic offers the ideal solution for efficient, high-quality laser marking: a floor standing workstation with a spacious working chamber, an integrated laser marker and smart operation technology. Thanks to streamlined manufacturing processes and offered with numerous options, this all-purpose marking system is available at a low investment cost. It can be equipped with a broad selection of Coherent | ROFIN laser sources for marking and micro material processing, such as fiber and solid-state lasers in different power ranges and wavelengths, ensuring an optimum match for a wide range of applications like corrosion-free marking of metal, precise engraving of delicate structures as well as marking of various plastics.

Visitors to TechniShow 2018 will see a running CombiLine system equipped with a completely air-cooled fiber laser from the PowerLine F series. These are innovative fiber lasers with various power ranges and optional doubleheader configurations. These fiber laser sources deliver 1 mJ pulse energy with a fast turn-on time and high peak power over a wide range of repetition rates.



Fig. 3: CombiLine Basic: all-purpose marking system

A regular, single-phase power supply is all the user needs. The integrated computer controls all system components. VisualLaserMarker, a sophisticated, industry proven laser marking software package, makes the definition of simple as well as complex marking layouts a breeze. All operating processes are controlled via a 15" touch screen. The wide, motorized door provides easy access to the spacious working chamber and offers enough room for marking even bulky workpieces. With a motorized z-axis, the marking head position can be precisely adjusted to accommodate varying workpiece heights.



Coherent|ROFIN: Broadest technology spectrum. In-depth process know-how. Superior support.

Coherent and ROFIN merged in November 2016 to form the world's largest photonics company. With over 5,000 employees in more of 100 locations the company serves more than 20,000 customers globally. Today, there is no other company that can offer customers a comparable breadth of capabilities or a wider range of products. Whatever the application demands, Coherent offers the most comprehensive set of solutions from sources to complex systems, backed by outstanding applications, process support and service support. Discover how a Coherent|ROFIN laser processing solution can improve results and cut costs in many particular applications.

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Founded in 1966, Coherent, Inc. is one of the world's leading providers of lasers and laser-based technology for scientific, commercial and industrial customers. Our common stock is listed on the Nasdaq Global Select Market and is part of the Russell 1000 and Standard & Poor's MidCap 400 Index. For more information about Coherent, visit the company's website at <http://www.coherent.com> for product and financial updates.