Press Release

TRUMPF Group
Laser Technology
Press / Public Relations

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TRUMPF at LASER 2007. World of Photonics
Munich, June 18 – 21, 2007

Hall B3, Booth 416

The Right Beam Source for Any Application

Innovations from worldwide market leader TRUMPF increase product offerings

TRUMPF's clear commitment to application-oriented innovations in laser technology makes the LASER 2007. World of Photonics trade show an obvious launching pad for the company's new products. Jens Bleher, Managing Director of the TRUMPF Laser Technology business field reports "At the trade show, we intend to show our newest innovations in laser beam sources and the unique variety of our products for all fields of industrial materials processing." To be introduced at the leading trade show for optical technologies is the TruDisk 1000 disk laser with an extremely compact design. For higher performance classes, lasers from the TruPulse series will be available starting at the trade show. TRUMPF also promises innovations in marking lasers from the TruMark series as well as in the TruMicro lasers for micro-processing. "We intend to better position ourselves in the growth market of micro-processing," emphasizes Bleher. "With the increasing miniaturization of components, conventional processes are hitting their limits – and this opens up new areas of application for the laser."

TruFlow: CO_2 laser continues to be the most popular high performance laser for industrial materials processing

With more than 14,000 installed units from TRUMPF alone, the fast-flow CO_2 laser also continues to be the most popular high performance laser for industrial materials processing. The future looks good that these lasers will maintain their

leading position in the coming years. Because when it comes to efficiency and output capacity, they have the potential for even more output power. A new member of the TRUMPF TruFlow CO_2 laser series is the TruFlow 8000 with a beam quality of 6 mm*mrad. With a guaranteed minimum output of 8 kW, it combines the highest output capacity in welding and cutting applications with the highest possible level of process reliability. The entire TruFlow CO_2 laser series will now be equipped with an additional feature that permits flexible adjustment of the focus parameters. Called the TRUMPF Dynamic Diameter Control (DDC), the laser beam and thereby the focus diameter from the running NC program will be adjustable to the current processing task even during the operation. The DDC will ensure both optimal process performance along with the highest possible process reliability.

TruDisk: Fine welding and highly dynamic cutting with expanded product offerings

The new TruDisk 1000 disk laser with an output of 1 kW has a beam quality of 2 mm*mrad. Preferred areas of application for this compact laser beam source are fine welding and highly dynamic cutting, as well as welding of small structures. At the head of the disk laser product family is a new member – the TruDisk 8002 with an output of 8 kW at a beam quality of 8 mm*mrad. At the trade show, TRUMPF will demonstrate reliable processing of a 3D part with the TruDisk 8002.

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TruPulse: Higher outputs and shorter pulses

With expanded technical features and an extended performance range, TRUMPF will introduce its new generation of pulsed solid-state lasers under the name TruPulse. The successor generation of the successful HL P lasers includes new performance classes in compact housing and offers what is now a standard feature: the “burst” function. This enables the TruPulse lasers to increase their average output in short bursts or surges to generate considerably more pulses in a shorter period of time. The increase in pulse train frequencies reduces the processing times in classic areas of application, such as the welding and cutting of filigree components. Entirely new products at LASER 2007 include three beam sources in the upper performance range with an average output of between 200 and 550 Watt.

TruMicro: New beam sources for growing micro-processing market

The TRUMPF Laser Technology business field is turning its attention to micro-processing. New to the product line is the TruMicro 7050 that has an average output of over 500 Watt. The output power of the TruMicro 3040, a model of the TruMicro series 3000, was doubled to 40 Watt compared to its successor, the TL20-1FQ. For use in micro-processing, the TRUMPF program is thus providing a laser with an average output of between 40 and 500 Watt with pulse durations of nanoseconds down into the micro-second range. Therefore, the world’s leading manufacturer of laser beam

sources is also offering application-oriented solutions suitable for the growing industry of microprocessing.

TruMark: Product line enhanced with a considerable boost in output

A new series of marking lasers will also be featured at the trade show. The marking lasers marketed under the name TruMark are distinguished by their innovative design and modular construction.

The TruMark series 6000 has an increase in output power of up to 70 percent compared to the previous model. This leads to shorter processing times and increased productivity. The TruMark 7020 with fiber optic laser light cable and the option of two outlets enables markings to be inscribed with a greater edge sharpness due to a homogeneous beam profile. The laser markers from the TruMark series make it possible to complete the most diverse marking tasks on the most varying of materials. In addition to the marking process, plastic welding and soldering are also possible applications of this flexible and robot-friendly system.

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TruMicro_7050.jpg

Completely new to the TRUMPF product line is the TruMicro 7050 for micro processing which has an average output of over 500 Watt.

TruPulse.jpg

The removable operating panel of the TruPulse laser with touch screen and rotary press button makes laser control easy to handle.

TruDisk_8002.jpg

The TruDisk 8002 disk laser has a laser output power of 8 kW and a beam quality of 8 mm*mrad.