

Press Release



TRUMPF Group
Business Field Laser Technology
Press and Public Relations

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Markings made easy

TruMark – Marking Lasers from TRUMPF

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Innovative design and modular layout characterize the new series of marking lasers from TRUMPF that are launched under the new name TruMark at the "Laser 2007. World of Photonics" trade show. The TruMark series includes lasers of various performance classes with varying wavelengths and laser-active media. TRUMPF offers the best-suited laser to meet the requirements of each process and material that is to be marked.

The TruMark Series 6000 has an increased output gain for the infrared, green and ultraviolet range of up to 75 percent compared to previous models, the VectorMark compact (VMc). This leads to shorter processing times and increased productivity. Established applications thus require accordingly lower marking times. The TruMark series 6000 also offers higher pulse peak powers and higher pulse energies than the VMc series, enabling new uses for marking lasers in new areas of application such as in the semiconductor industry. The basic version of the TruMark lasers emits light in the infrared range at 1064 nanometers. For processing plastics and semiconductor materials machines with green (532 nm) and ultraviolet light (355 nm) are available.

The lasers of the TruMark Series 6000 are equipped with a digital scanner. This new and still precise generation of deflection systems allows to convert the higher laser performances into a shortened marking time.

The TruMark 7020 is the successor to the successful VectorMark impact (VMi). The TruMark 7020 can also be coupled into an optical fiber. By doing so the TruMark 7020 enables markings to

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achieve a higher edge sharpness due to a homogeneous beam profile. In addition to the markings rapid annealing, soldering and plastic welding are also possible applications of this flexible and robot-friendly system. Two optional fiber connections permit the processing of two workpieces that are spatial separated from each another.

Marking software

With the marking software TruTops Mark it is easy to take advantage of the many options offered. The software modules "Quickflow" and "Marking on the Fly" further expand the uses of TRUMPF laser markers to include specialized application areas. "Quickflow" allows the data exchange with external systems for various markings. The simple programmability of the laser also permits versatile marking options including texts, serial numbers, data matrix and bar codes, logos and drawings. In the case of continuous production processes products must be marked without stopping. With "Marking on the Fly" the movement of the deflection mirror superposes the position change of the workpiece to allow markings without distortion. Therefore the speed of the transport system is recorded continually in order to achieve a constant marking even during acceleration and braking processes.

Complete laser marking systems

In addition to marking lasers from the TruMark series TRUMPF offers, a broad spectrum of complete systems for performing the most diverse marking tasks with its workstations called TruMark Station.

Removable side openings provide the possibility for processing longer workpieces. TRUMPF offers these workstations also for integration into automated production lines. For semi-automatic



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production of medium-sized production batches a dual station rotary table with the same compact dimensions is available.

A motor-driven Z axis ensures that all the machines adapt to the workpiece heights. Additional axes with numerical control are also available as an option. An exhaust system with active carbon filter as well as laser cooling by air or external heat exchangers are available for all handling systems. The compactness of the machines as well as a 230V/110V-connection as the only peripheral connection make it easy to select the location.

All systems come in different working heights either as an ergonomically designed seated or standing workstation. The workstation's tough industrial weld structure can be accessed via a motor-actuated swing door or the rotary table. Compliance with the laser protection class 1 is thus guaranteed during laser marking. All of the sensors from the laser and the workstation can be both easily and securely maintained using the TRUMPF TelePresence Portal.

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