

Press Release



TRUMPF Group
Laser Technology Division
Press/Public Relations

TRUMPF at PRODUCTRONICA
Munich, Nov. 13–16, 2007 // Hall B5, Booth 504

Marking Made Easy

Laser marking of metals and plastics with the TruMark marking lasers

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Laser marking ensures product identification and traceability. Compared to alternative marking methods like printing or etching, the laser offers many advantages. The process is environmentally friendly since no dyes, acids or solvents are used. It is very gentle on materials because naturally the laser works without contact and without wear. Maximum precision, quality and reproducibility are possible at high marking speeds – even in hard-to-reach places. At PRODUCTRONICA, TRUMPF will demonstrate its new TruMark 3130 marking small anodized aluminium. The system has pluggable connections between the laser head and the power supply unit, which means that it can be easily integrated into production. In another live demonstration, TRUMPF will show the TruMark 6330 marking laser in conjunction with the TruMark Station 5000 marking safety plugs.

An innovative and modular design characterizes the new marking laser series from TRUMPF. The TruMark Series includes devices of varying power classes with different wavelengths and active laser media. Corresponding to the requirements of the process and the material to be marked, TRUMPF offers the most suitable laser for specific applications.

The TruMark 6000 Series features up to 75 percent increased power compared with previous models for the infrared, green and ultraviolet ranges. The results are shorter processing times and increased productivity. Familiar applications then require less marking time. The TruMark 6000 Series also offers higher peak pulse powers and higher pulse energies than previous models, which opens up new applications and areas of use for markers. The basic version of the TruMark Series

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emits light in the infrared range at 1064 nanometers. Devices with green (532 nm) and ultraviolet light (355 nm) are available specifically for the processing of plastics and semiconductor materials. The TruMark 6000 Series lasers come equipped with a digital scanner. This new, fast and yet precise generation of deflection systems makes it possible to convert higher laser power into shorter marking times.

The TruMark 7020 is the follow-up to the successful VectorMark impact (VMi). The TruMark 7020 can also be connected with laser light cables. This allows markings to be made with very sharp edges as a result of the homogenous beam profile. Fast annealing, soldering and plastic welding are possibilities in addition to marking for this flexible and robot-compatible system. Optionally, two fiber-optic outputs make it possible to process two workpieces in separate locations.

Complete laser marking systems

In addition to laser marking devices, TRUMPF offers standalone workstations: the TruMark Station. These complete laser marking systems are well designed to cover a wide range of marking applications. TRUMPF also offers these workstations for integration into automated production lines. A rotary index table with the same compact dimensions is available for the semi-automated production of medium batch sizes. A motorized z-axis ensures that all devices can be adjusted to the workpiece height. Additional axes are also optionally available with numerical control. For all TruMark Stations an exhaust system with an active carbon filter is available. The marking lasers can be either air-cooled or water cooled with an external heat exchanger.

All systems are available in different working heights, either as ergonomic seated or standing workstations. Access to the sturdy

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designed and industrial-suited workstations is provided by motorized doors or the rotary index table. This guarantees Laser Protection Class 1 during the marking process. All of the laser and workstation sensors can be maintained with complete data security conveniently via the worldwide TRUMPF Tele Presence Portal.



TRUMPF is a high-tech company focusing on production, laser and medical technology. Further information on the company can be found at www.trumpf.com, about the laser technology business field at www.trumpf-laser.com.

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