

Presse Release



TRUMPF Group
Press / Public Relations
Laser Technology

TRUMPF at the K 2007
Duesseldorf, October 24 – 31 2007 // Hall 4, Booth D 39

The right laser marker for any plastic

New TruMark 3130 for high-precision applications in Day/Night design

UV Laser TruMark 6330 marks flame-resistant plastic

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Ditzingen/Germany, October 24, 2007 - Laser markers are able to meet the material requirements of the widest variety of plastics by using suitable laser-active media and different wavelengths. At the K 2007 trade show in Düsseldorf, TRUMPF will be showing laser wavelengths that are applicable for the majority of plastics.

TRUMPF offers the best-suited lasers for individual applications in accordance with the requirements of each process and material that is to be marked.

TRUMPF will also premier the second model of the TruMark Series 3000, the new TruMark 3130, at the trade show. The TruMark 3130 is a laser marker geared toward high precision applications such as day/night design. At the K 2007 show, TRUMPF will demonstrate how cell phone key pads or illuminated switches in automobile fittings are marked. In contrast to its sister model, the 3020 with Nd:YAG-Crystal, the TruMark 3130 uses Yttrium-Vanadate as the laser-active material, making the new marker suitable for the best possible high pulse frequencies ranging from 30 to 100 kHz. In this frequency range, the TruMark 3130 is impressive with its highest pulse-to-pulse stability.

The new TruMark Series 3000 is also distinguished by its innovative design and modular construction. Scanner, laser head and power supply unit with a hybrid cable are connected with plugs and makes integration easy. Plug-in cards facilitate modular expansions to the control system. Compared to the previous series, the newest laser marker from TRUMPF consumes about 80 percent less power. Dr.



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Jörn Birkel, product manager at TRUMPF Laser Marking Systems AG, explains: "The TruMark Series 3000 can operate under ambient temperatures of up to 40°C with no problem at all – and without a water cooling system. A new type of air cooling system makes this possible."

Double-head application for flame-resistant plastic

Because flame-resistant plastics can be efficiently marked with good contrast using only UV laser beams, the UV laser TruMark 6330 will be another highlight at the K trade show. The TruMark 6330 system with two marking heads in a 90 degree layout (dual head system) and a wavelength of 355 nm (UV light) will also be on display. With a marking speed of up to 2,800 characters per second and a single-line font of 1 millimeter, the Dual Head System is setting new standards.

Broad product spectrum

TRUMPF will also be showing additional laser markers from the TruMark series at K 2007. The TruMark 3020, first launched in June 2007, is particularly compact due to its small processing head. It also has plug-in connections that make it easy to integrate into other systems. The TruMark 7020 with fiber optic laser cable and the option of two outlets enables markings to be inscribed with a greater edge sharpness due to a homogeneous beam profile. In addition to marking, plastic welding and soldering are also possible applications of this flexible and robot-friendly system. The TruMark 6130 is a "Marking on the Fly" solution. With this option, parts can be marked as they are passing by, on a conveyor belt, for example.

Applications for this include small electronic components or hoses and cables that can be marked automatically while passing through the production line. Furthermore, with a green wavelength of 532



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nm, the TruMark 6230 possesses the laser wavelength that is most suitable for the majority of plastics available on the market.

Marking software for diverse applications

With the TruMark marking software, TruTops Mark, it is easy to take advantage of the many options offered. The software module "Quickflow" and "Marking on the Fly" further expand the uses of TRUMPF laser markers to include specialized application areas. "Quickflow" facilitates simple icon-based programming of complex marking tasks and additional peripherals. The fact that the laser is simple to program also permits versatile marking options, including texts, serial numbers, data matrix and bar codes, logos and drawings. In the case of non-synchronized, continuous production processes, products must be marked while they are moving. With "Marking on the Fly," the movement of the deflection mirror causes the position change of the workpiece to be marked to be superimposed, thus allowing it to be inscribed without distortion. The speed of the transport device is therefore continually recorded to achieve an even and smooth inscription even with stops and starts.

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