

Press Release

**TRUMPF at LASER 2007. World of Photonics
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Hall B3, Booth 416

Powerful and reliable

New fast-flowing CO₂ lasers from TRUMPF

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The new TruFlow 8000 combines a high degree of process dependability with the highest possible capability for welding and cutting applications. The TruFlow 8000 now comes in the small form factor of the compact TruFlow series and guarantees an output power of 8 kW. "Thanks to its small design, the lasers can be easily integrated into machines and systems," explains Dr. Michael von Borstel, director of development and production technology at TRUMPF Laser - und Systemtechnik GmbH. "Our high-performance CO₂ lasers are being used in various systems for cutting, welding and surface treatment. Over 14,000 units installed worldwide are proving themselves daily. The new TruFlow 8000 reinforces this strong team." TruFlow has been the product name of the successful TLF laser since 2006. It follows TRUMPF's new uniform and transparent product naming system. This means that the technology of the laser can already be identified in the name: fast-flowing lasers from TRUMPF.

Compared to the previous TruFlow 8000 that was part of the large laser series, the new TruFlow 8000 increases the beam quality to 6 mm*mrad (K=0,55) instead of 13 mm*mrad. When it comes to welding, it has considerably improved results compared to the previous TruFlow 8000. Specifically, it achieves the same welding speeds as the TruFlow 12000 for welding depths under 6 mm. The consumption of laser gas still only comes to one-third the previous level of gas consumption. Standard features include a diamond output mirror, temperature monitoring of all resonator optics and optical monitoring of the output mirror.



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The fast, axially flowing lasers from the TruFlow series are modular in design and based on a scalable concept. They cover the entire performance range from 700 W up to 20 kW. All TruFlow lasers incorporate clean and efficient high-frequency excitation, a compact and robust square-shaped footprint as well as maintenance-free, magnetically suspended turbo radial blower. The latter offers the greatest efficiency in gas circulation and thereby the best cooling and optimum efficiency.

The entire TruFlow CO₂ laser series will soon be equipped with an additional feature that will permit flexible adjustment of the focus parameters. With the help of TRUMPF Dynamic Diameter Control (DDC), the laser beam and thereby the focus diameter can be adjusted through the running NC program - during the ongoing process. The DDC will ensure optimal process performance, as well as the highest possible process dependability.

The TruFlow lasers with 2 kW to 8 kW are the heart of the highly productive laser processing centers for high-speed cutting of thin sheets, as well as for highly precise and reliable cutting of thick sheets. Furthermore, they are used in 5-axis systems for the laser processing of three-dimensional components, in laser welding centers for tubes and profiles or for transmission parts. For special tasks in laser materials processing, TRUMPF offers customized solutions that build on the concept of the TruFlow laser.

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