

Press Release

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TruCoax – light and compact

Diffusion-cooled laser for thin sheet metal

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Minimal gas consumption and high beam quality distinguish the lasers in TRUMPF's TruCoax series. The TCF 1, successfully launched in 2005, is now called the TruCoax 2000. It will receive reinforcements at the "Laser 2007. World of Photonics" trade show in the form of the TruCoax 1000. With laser capacities of 1 kW and 2 kW, the TruCoax lasers are the perfect addition to TRUMPF's longitudinally flowing TruFlow laser series in the lower performance range. The coaxial arrangement of the electrodes in the diffusion-cooled TruCoax lasers deliver high beam qualities while at the same time remain sensitive to the alignment needs of the system at the same time. These beam qualities of $K = 0.9$ make the lasers ideal for cutting and welding of smaller and medium sheet thicknesses. An integrated beam-forming telescope ensures a high beam symmetry even at large distances.

In addition to sheet metal processing, applications of the TruCoax laser series also include non-metal materials such as glass, plastic, wood and textiles.

The principle of free-space beam propagation in the resonator, in conjunction with the coaxial arrangement of cooling electrodes, results in a particularly compact and robust construction. The resonator combines all functions in one structure. The electrode tubes act as the bearing structure of the laser and the assembly platform of the beam-forming telescope.. Additionally, the outer electrode also serves as the high-frequency shielding.



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The vacuum system is limited to the annular gap between the electrodes. Gas consumption is therefore considerably lower than for comparable beam sources. The gas supply is integrated into the compact laser head and ensures continuous operation for more than a year. A semi-automatic gas exchange takes place every 72 operating hours only (near sealed-off operation).

The compact, light weight design of the TruCoax laser makes it easy to integrate them into robot systems or any other production system. With very low power consumption in stand-by mode, the TruCoax lasers use less energy in applications requiring low beam-on times.

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