



Formnext: TruPrint 2000 from TRUMPF even more productive and flexible

With 500-watt lasers and a square build plate, the TruPrint 2000 is now also suitable for mass production // More productivity and quality for users in the dental and medical technology industries // Up to 36 percent more partial dentures in one pass

Ditzingen/Frankfurt, 27 Octobre 2023 – The high-tech company TRUMPF has further increased the productivity of the TruPrint 2000. "The 3D printer is now also designed for mass production. Users from all industries benefit from the machine's high productivity," says Mirko De Boni, product manager at TRUMPF responsible for the TruPrint 2000. The high-tech company has equipped the 3D printer with a square instead of a round build plate and increased the power of the integrated fiber laser to 500 watts as an alternative to the 300 watts laser in the basic configuration. For example, dental technology companies print up to 36 percent more removable partial dentures on the square build plate than on a comparable round build plate. TRUMPF is presenting the 3D printer for the first time at Formnext, the leading trade fair for additive manufacturing in Frankfurt.

As a multilaser version, the TruPrint 2000 has two lasers. Both lasers can process the entire build plate simultaneously. Users print 80 percent more components with the multi-laser variant compared to the single-laser variant. "The TruPrint 2000 not only works very productively, but also precisely and with the highest quality," says De Boni. According to the highest medical standards, medical technology manufacturers use the 3D printer to produce skull plates, spine cages or knee joints made of titanium, for example. "Safety is the top priority for TRUMPF 3D printing, especially for critical areas such as medical technology. With the upgrade of the TruPrint 2000, patients receive high-quality implants with even more long-term stability." If required, the TruPrint 2000 also prints these implants in series.

TruPrint 2000 especially flexible due to variable spot size



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With its so-called motorized beam expander, the TruPrint 2000 automatically adjusts the spot diameter of the laser to the task at hand. Depending on the application, the spot diameter is 55 or 80 micrometers. The 80-micrometer spot enables higher productivity. Users can use the 55-micron spot when special metal powders require a higher energy density. Now even the TruPrint 2000 is sharing the same process condition as all the other TRUMPF machines, driven by the 80 microns beam size and the optimized gas-flux. "With this standardization, users can now easily transfer the parameters for printing their parts from machine to machine, such as from a TruPrint 2000 to a TruPrint 1000 or TruPrint 3000, allowing for more flexible manufacturing," says De Boni.

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TRUMPF employee in front of TruPrint 2000



TruPrint 2000 with square build plate



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