



Press Release

Formnext 2019: TRUMPF to present a solution for automated mass 3D printing

TRUMPF TruPrint 1000 3D printer automatically changes substrate plates // Machine handles several print jobs overnight, on its own // Solution prevents bottlenecks when job orders spike

Ditzingen, 17. October 2019.– TRUMPF is set to present a new solution that automatically changes substrate plates on the TruPrint 1000 3D printer. The high-tech company intends to unveil it at Frankfurt's Formnext, the world's leading trade show for additive manufacturing. A function TRUMPF calls Multiplate prompts the system's recoater to push the substrate plate into the overflow container at the end of the print run. The 3D printer then automatically goes to work on a new substrate plate. The system can immediately start the next print job without an operator having to open it and insert a new plate. This saves time, costs and resources. It also helps manufacturers avoid bottlenecks when job orders peak, because the machine can run overnight. This solution is particularly well-suited for industries where orders tend to fluctuate greatly. One example is the dental sector, where employees often have to restart 3D printers in the middle of the night to meet delivery obligations. Many smaller dental labs lack the capacity for this, and have no choice but to decline orders. The Multiplate function solves that problem, helping them to avoid bottlenecks and remain competitive. "With our solution, we are making a significant contribution to the industrialization of additive technologies in the dental industry," says Florian Krist, product manager at TRUMPF Additive Manufacturing.

Goodbye handiwork, hello recoater

The construction cylinder, overflow container and recoater all have a part to play when the TruPrint 1000 automatically changes substrate plates. The cylinder and container sit below the process chamber. The machine prints the component on a substrate plate in the construction cylinder, while the overflow container collects excess powder. In a Multiplate setup, the recoater that distributes the powder in the build chamber during printing handles what is usually the machine operator's task. It pushes the substrate plate on which the previous component was printed

Press Release



into the system's overflow container. A spring support mechanism ensures that the overflow container lowers the substrate plate evenly. The next substrate plate is standing by in the TruPrint 1000's construction cylinder. After printing a component, the system lifts the new plate up into the process chamber. The TruPrint 1000 immediately starts the next printing job without an operator having to intervene.

A solution that saves time, resources and labor costs

Multiplate saves companies time and labor costs. Smaller companies can use it to run their systems at full capacity without additional personnel, so it takes the pressure off when job orders spike. This solution also conserves resources, as the machine operator does not have to replenish the shielding gas. With its machine base, the TruPrint 1000 is the world's best-selling small-format 3D printer. And the Multilaser function, which uses two lasers simultaneously to print the component, makes it one of the fastest in its class. "We will be in an even better position to tap the market potential of the TruPrint 1000 with the Multiplate solution," says Krist.

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TruPrint 1000

With its machine base, the TruPrint 1000 from TRUMPF is the world's best-selling small-format 3D printer.
(Source: TRUMPF)



About TRUMPF

The high-technology company TRUMPF offers production solutions in the machine tool and laser sectors. It is driving digital connectivity in manufacturing industry through consulting, platform and software offers. TRUMPF is the world technological and market



Press Release

leader for machine tools used in flexible sheet metal processing, and also for industrial lasers.

In 2018/19 the company – which has about 14,500 employees – achieved sales of 3.8 billion euros (preliminary figures). With over 70 subsidiaries, the TRUMPF Group is represented in nearly all the countries of Europe, North and South America, and Asia. It has production facilities in Germany, France, Great Britain, Italy, Austria, Switzerland, Poland, the Czech Republic, the USA, Mexico, China and Japan.

For more information about TRUMPF go to www.trumpf.com

Press contact:

Ramona Hönl
Media Relations, Spokesperson Additive Manufacturing
+49 7156 303-31251
Ramona.Hoenl@trumpf.com

TRUMPF GmbH + Co. KG, Johann-Maus-Straße 2, 71254 Ditzingen, Germany

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