

Wematter launches improved post-processing station for 3D printing, saves clients' working time



Swedish 3D printer manufacturer Wematter launched an improved version of the popular Density cleaning station that is safer, faster, and quieter. The updated machine helps make powder bed technology available in the office, lab, and production environments. The update is part of Wematter's mission to make advanced SLS technology available in a user-friendly hardware and software solution.

The Density system helps users avoid bottlenecks in the production of SLS 3D prints by reducing the time required for finishing manufactured 3D models using water blasting and compressed air processing.

The new edition of the Density cleaning station for SLS printing comes with several innovations. The machine is now equipped with a new and more powerful motor combined with a nozzle where both pressure and jet can be adjusted to the user's preference. In addition to these innovations, the Density 2022 is also quieter when running, which makes it more suitable for the office environments in which it is often found.

"Since the launch of Density 2021, we have received a lot of positive feedback, suggestions for improvements, and requests for new functionality. It's been a challenge to put it all together in a nice package, but I think that Wematter has done well with Density 2022. We have prioritized user security in this release, which lowers the thresholds for the technology and broadens the user base", says Robert Kniola founder and CEO of Wematter.

One of the biggest innovations with Density 2022 is its new nozzle with a variable water jet. The new nozzle creates a wide jet to remove powder from large areas and a concentrated jet to remove powder from cavities and narrow passages. This is ideal for SLS 3D printing and other techniques, such as Polyjet, SLA, and FDM. The new jets also benefit from increased pressure and flow rates, thus making powder removal even faster.

"In a move towards Wematter's vision of one system in every development office, the aim of the latest model year change has been to reduce noise levels. This goal has required a total redesign that not only lowered the noise level to a whole new level, it also enabled design changes for better manufacturability. Wematter's internal goal is for an entire construction job to be cleaned in under an hour; Density 2022 moves with the improved water jet, Wematter one step closer to the goal of decentralizing additive manufacturing for the broader masses," said Robert Kniola, founder and CEO of Wematter.

Other new features include an easier overview of the Density's water level, more ergonomic handles, and improved visibility thanks to a new wiper motor. Density continues to be easy to install and features recirculating water in a closed system. Neither access to a drain nor an external water connection is required. Wematter simplified water and compressed air changes by building quick connectors and simple taps into the system.

The Wematter Density 2022 builds on the [2021 model](#) to include the following new features:

- New and more powerful motor with adjustable nozzle for more efficient cleaning of different types of prints;
- Quieter operation through redesign of the machine's steel construction and pump solution;
- New level indicator to ensure the right amount of water is in the machine and uninterrupted operation;
- Redesigned handles, better visibility, and new wiper motor for better ergonomics;
- Easier emptying through redesigned connections and taps.

For more information, please contact:

Jens Gabrielsson

VP Marketing & Sales

+46 (0)73 300 32 10

press@wematter.se

About Wematter AB (publ)

Swedish 3D printing company Wematter's pioneering solution gives hospitals, offices, and workshops access to a comprehensive system. For the first time, employees can easily print components themselves with the same strength and quality as traditional technology. Wematter's proprietary end-to-end solution enables customers to accelerate product development and in-house volume production. At the same time, the system creates the conditions for increased flexibility, lower risk and reduced manufacturing and development costs.

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