

Brugg (Switzerland), the 14<sup>th</sup> of June 2022

## New possibilities for SLS Material Development

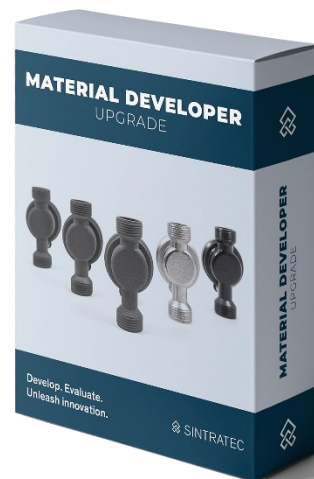
**Sintratec, Swiss developer of industrial 3D printing systems, launches a new software solution. With the Material Developer Upgrade the Sintratec S2 system is transformed into a powerful application development platform with over 100 configurable parameters.**

3D printing and Selective Laser Sintering (SLS) in particular are dominated by a handful of materials. These common SLS powders – such as PA12 nylon or TPE elastomer – have proven to be the perfect choice for many industrial uses. However, there has been a lack of options for niche applications when it comes to special material requirements.

With the launch of the **Material Developer Upgrade**, Sintratec now offers a software feature to open up new possibilities for material research and development. Configurations can be made each step along the process – from digital part

preparation to various steps during printing. Users can adjust over 100 parameters in total. Those include slicing settings, layer application behaviour, laser power, control of heating zones and many more. As a highlight users can completely customize the laser pathing strategy with scripts. The Material Developer Upgrade is flexible, fast, and fully integrated into the Sintratec Central printing software.

The MDU is meant to unleash innovation – whether it is to adapt existing powder materials or to develop entirely new ones. And thanks to the modularity of the **Sintratec S2 system**, simultaneous development of multiple materials becomes a feasible reality. Since the laser sintering module is never in direct contact with the material specific, movable core unit no cross-contamination occurs. This allows for a much faster research speed and easy adoption of the material into production lines. Find out more about the Material Developer Upgrade: [sintratec.com/MDU](https://sintratec.com/MDU)



**Michał Reszke, Process Development Engineer Sintratec**

«As a professional material developer with over 5 years of experience, I finally have a tool that gives me complete freedom in testing new powder materials for additive manufacturing. The Material Developer Upgrade by Sintratec allows me to use the Sintratec S2 to evaluate materials that have never been printed before.»

## Sintratec Videos

[The Material Developer Upgrade](#)

[Case Study: SLS in the glass industry](#)

[Design tips for 3D printed shoes](#)

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Sintratec is the leading Swiss developer and manufacturer of precise 3D printers for professional use. The cost-effective and compact systems employ the selective laser sintering (SLS) technology in order to process high-quality polymer materials. By means of the Sintratec Technology, users can create complex objects with an exceptionally high freedom of design. Whether stiff or flexible, Sintratec materials are highly resilient and temperature-resistant.

Sintratec systems are in operation worldwide in various industries, research institutes and universities. Founded in 2014, Sintratec managed to grow into a leading technology company.

