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Sintratec

Press Release

Sintratec exhibiting at Rapid + TCT show in Detroit

SLS Beyond Prototyping

Sintratec presents its brand-new SLS solution for the first time in the United States of America: The selective laser sintering system "Sintratec S2" celebrates its US premiere at Rapid + TCT in Detroit (booth 1753). Built for scalability, the modular and compact system is closing a gap in the additive manufacturing market.

Brugg (Switzerland), the 20th of May 2019

An integrated selective laser sintering system (SLS) at an attractive price-performance ratio? Non-existent, until now. Sintratec, the leading Swiss developer and manufacturer of precise 3D printers for professional use, introduces at Rapid + TCT 2019 a highly innovative SLS solution. The cleverly scalable "Sintratec S2" pushes SLS printing onto a new level and will enable users to immediately get stunning results in rapid prototyping as well as rapid manufacturing. But what's thoroughly new in the SLS field? Besides printing prototypes, the system enables producing small series too.

Swap Materials Quickly

The Sintratec S2 stands out by its closed-loop workflow. But users not only benefit from a complete 3D printing system covering all processes from printing to post-processing. The cleverly engineered SLS solution also allows quick material changes and printing almost without interruption. Inserting print-ready units for the next job takes only a few seconds. Thanks to the interchangeable Material Core Units (MCU), downtimes can be reduced significantly. Material swaps can be made faster and happen without any contamination of other printing materials too. Furthermore, a convenient de-powdering system and two additional modules for post-processing (a sand blasting module and a polishing module) ensure fast finishing work. With this, tedious cleaning processes and material contaminations are a thing of the past.

Boost Application Design

Moreover, besides the integration of all these processes, this innovative system solution is expandable too. This represents a great opportunity for companies to scale their production according to their needs. As the user wishes, he/ she can easily integrate additional modules like a second Laser Sintering Station or another Material Handling Station. In doing so, he/she increases the solution`s flexibility in terms of material variety and output capacity. This makes the Sintratec S2 not only interesting for research and development tasks, but also for the optimization of applications. Dominik Solenicki, CEO at Sintratec, explains: "The Sintratec S2 will boost the design of applications and gives the user the opportunity to set foot in small series production as well."

The Modules at a Glance

The Sintratec S2 consists of three main modules: The Laser Sintering Station (LSS), the Material Core Unit (MCU) and the Material Handling Station (MHS). The Laser Sintering Station enables users to print precise and consistent objects at a high speed with an exceptionally high degree in freedom of

form. The movable Material Core Units can be easily removed and interchanged between the Laser Sintering Station and the Material Handling Station. This workflow concept results in minimized downtimes and maximized efficiency.

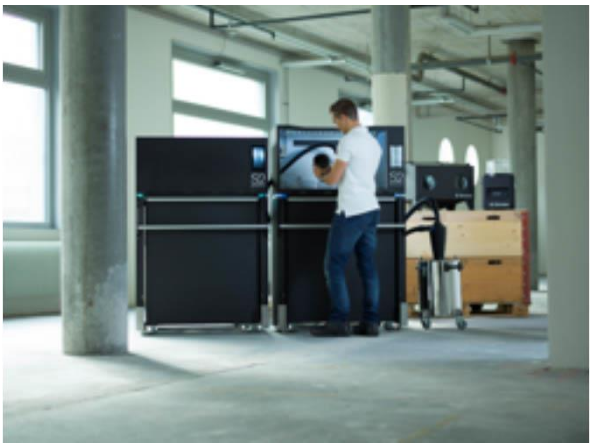
Perfect Heat Distribution

The Sintratec S2 is equipped with some more clever features. For example, the cylindrical printing area and the ring lamps guarantee a perfect heat distribution during the printing process. Thanks to a 4K camera the printing process can be monitored in detail. Especially ergonomics was considered: The Material Handling Station allows a comfortable and efficient unpacking of prints and recycling of printing materials. Easy to access, this module was constructed to be operated at the user's arm level. Moreover, the convenient powder recycling concept also increases process efficiency. Finally, the air filtration and powder sieving system complete the Swiss 3D printing system.

An Attractive Alternative

Up until now, consumers in the SLS field had to choose between expensive high-end machines and cheap, low-performing benchtop printers. With the Sintratec S2, there is an attractive alternative in the market that is perfectly positioned in-between those categories. The Sintratec S2 is not only a powerful 3D printing system but includes fast and elegant powder-handling and post-processing. The fully-integrated solution is monitored and controlled via touchscreen and therefore easy to use. Dominik Solenicki resumes: "With the Sintratec S2 solution we will be opening new opportunities for companies of any size."

IMAGES AND CAPTIONS



Ergonomic system solution for professional 3D printing: The «Sintratec S2» consists of three main modules and is expandable with different additional modules, as required. (Image source: Sintratec Ltd.)

The «Sintratec S2» consists of the following modules: on the left the Laser Sintering Station (LSS), the Material Core Unit (MCU) and then, as the highest module, the Material Handling Station (MHS). Additionally, the Blasting Station and the Polishing Station (both on the right, on the table) and the Sintratec Vortex Unit (below) are available. (Image source: Sintratec Ltd.)

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Short Videos

Sintratec CEO Dominik Solenicki presenting the S2
Case Study: Printed medication
Case Study: Engineering
Case Study: How strong is SLS?
Printing functional prototypes with the S2

Further Information

sintratec.com
thefutureofsls.com

-> Visit Sintratec at Rapid + TCT: booth 1753
-> Download Press Kit: https://sintratec.com/s2/

Contacts for Journalists and Bloggers

Luca Meister, Media Relations:
luca.meister@sintratec.com

Gabor Koppanyi, Head of Marketing and Sales:
gabor.koppanyi@sintratec.com

Address

Sintratec AG
Badenerstrasse 13
5200 Brugg
Switzerland
+41 56 552 00 22
www.sintratec.com

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ABOUT
SINTRATEC

Sintratec is the leading Swiss developer and manufacturer of precise 3D printers for professional use. The affordable 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 degree in freedom of form. 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 as a start-up, Sintratec managed to grow into a leading company.