

Brugg (Switzerland), the 14th of October 2021

A milestone in additive manufacturing

Sintratec, Swiss manufacturer of professional SLS 3D printers, releases its first nesting solution. As an upgrade to the existing printing software, users can now have their 3D objects automatically placed in the build volume with unprecedented packing density.

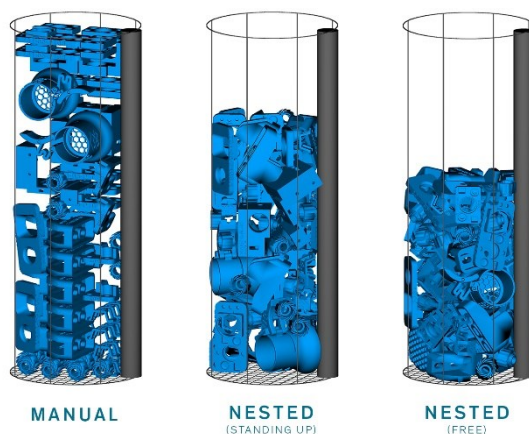
3D printing software often demands a lot from its users. Like in a puzzle, 3D models have to be placed, rotated and moved so that the available print volume can be used in the best possible way in order to save printing time and material. A time-consuming process that tends to deliver only mediocre results. With the introduction of a fully integrated nesting solution, puzzle games are now a thing of the past for Sintratec customers.

With a single click, the imported 3D objects are analyzed by the algorithm and optimally placed inside the cylindrical print area of the Sintratec S2 System according to various configurations. Not only does the Sintratec Nester solve these calculations much faster in direct comparison with previous market leaders, but also sets new standards in terms of density.

Packing density is a key factor in optimizing the throughput of 3D production – especially with Selective Laser Sintering (SLS), which does not require support structures. Depending on geometries, the Sintratec algorithm achieves up to twice the density of manual placement, thus reducing the required print volume by half.

Combined with the Nesting Solution, the Sintratec S2 system becomes an even more attractive option than it already was. The production of high-quality industrial parts from the variety of materials available in powder-based additive manufacturing can thus be carried out at especially low unit costs and with a high degree of automation. The commercial importance cannot be understated: Nesting 100 print jobs with our Nesting Solution saves 50 work hours, 47 kg of powder, and 800 hours of printing time.

The Sintratec Nesting Solution is now available – and free of charge for the first year to all current and new Sintratec S2 customers. [Visit sintratec.com/nesting for more information.](https://www.sintratec.com/nesting)



Christian von Burg, CTO & Co-Founder Sintratec:

"With the addition of a 3D nesting function, we are taking our software to the next level. No other program on the market is capable of nesting 3D parts as densely in such a short time as ours. The Sintratec Nesting Solution therefore marks a milestone on the path towards efficient additive manufacturing and is a real game changer in the field of selective laser sintering."



Exemplary use case of the Sintratec Nesting Solution:

Manual placement compared to two differently configured nesting solutions with identical number of parts

Manual placement:	30 minutes labor time, 10% density, 360mm print height, 22 hours printing
Nested with "standing up" orientation:	28 seconds calculation time, 14.3% density, 267mm print height, 17 hours printing
Nested with "free" orientation:	80 seconds calculation time, 18.4% density, 208mm print height, 14 hours printing

Sintratec Videos

[The Sintratec Nesting Solution](#)

[Case Study: SLS parts in Race Cars](#)

[5 reasons for SLS](#)

Contacts for journalists and bloggers

Gabor Koppanyi, Head of Marketing and Sales:

gabor.koppanyi@sintratec.com

Vanessa Müller, Public Relations

vanessa.mueller@sintratec.com

Address

Sintratec AG

Badenerstrasse 13

5200 Brugg

Switzerland

+41 56 552 00 22

www.sintratec.com

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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.

