

High Speed Sintering

Fast, scalable and cost-effective polymer 3D printing

High Speed Sintering ist eine der produktivsten 3D-Drucktechnologien für Polymere, bei der Pulver mittels Tintenstrahl Druck und Infrarotlicht verschmolzen wird. Es ermöglicht niedrige Stückkosten bei maximaler Flexibilität.



Strengths & Differentiators of HSS



Industrial

High End industrial components, such as the print head ensure long durability, high scalability and efficient repeatability.



Speed

Unmatched printing speed through high end printhead technology and consistent layer times, independent of part size or volume.



Cost Efficiency

Highest productivity, reliable repeatability and powder recycling ensure low costs per part for prototypes and series production.



Material Diversity

Standard material for HSS is PA12. However, after testing and qualification, various polymer materials can also be processed.



Design Freedom

Make the best products possible. HSS allows for complex geometries, large and accurate parts as well as high quantities.

3D printers for HSS



VX200 HSS (290 x 140 x 180 mm)

- > Optimized for R&D applications
- > Open system for maximum adaptability
- > Compact design for laboratory use



VX1000 HSS (1,000 x 550 x 190/400* mm)

- > Largest build area and productivity for low part costs
- > Unique homogeneity of part properties
- > Low maintenance and powder refresh requirements

*depending on material

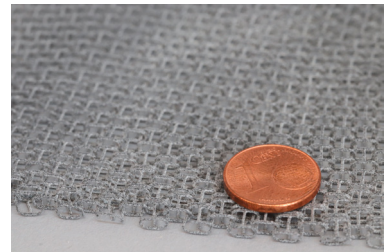
Material data (referring to a powder refresh rate upto 20 % on a VX1000 HSS)

	PA12	TPU*
Test Standard	ISO 527 - 2:93 - 1A	DIN 53504 (S2)
Young's Modulus (XY)	1266 ± 15 MPa	33 ± 5 MPa
Young's Modulus (Z)	1285 ± 37 MPa	17 ± 5 MPa
Tensile Strength (XY)	47 ± 1 MPa	8 ± 1 MPa
Tensile Strength (Z)	37 ± 1 MPa	3 ± 0.50 MPa
Elongation at Break (XY)	10 ± 1 %	190 ± 15 %
Elongation at Break (Z)	5 ± 1 %	60 ± 6 %

* Available on request

Industries and Applications of HSS

- › Functional parts
- › Automotive
- › Aerospace
- › Sports & leisure
- › Interior design
- › Packaging
- › Electronics



Our HSS Polymer network

Meet our HSS polymer network. An easy and risk-free way to find your HSS solution. Whether it's developing your own material, optimizing the HSS technology for your material, or getting parts or a 3D printer of your own.

