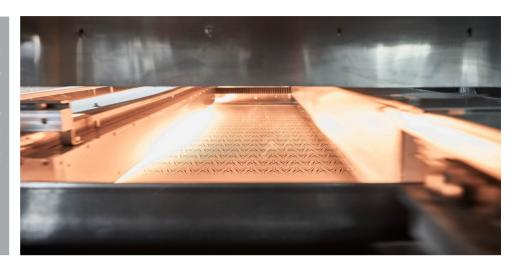


# **High Speed Sintering**

Fast, scalable and cost-effective polymer 3D printing

High-Speed Sintering, one of



## **Strenghts & 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, independet 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 accurate parts as well be processed.



### **Design Freedom**

Make the best products possible. HSS allows for complex geometires. large and 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 540 x 180/400\* mm)

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

<sup>\*</sup>depending on material



### Material data (referring to a powder refresh rate of 20 % on a VX200 HSS)

	PA12	TPU*
Test Standard	ISO 527 - 2:93 - 1A	DIN 53504 (S2)
Young's Modulus (XY)	1716 ± 89 MPa	33 ± 5 MPa
Young's Modulus (Z)	1725 ± 59 MPa	17 ± 5 MPa
Tensile Strength (XY)	52 ± 1 MPa	8 ± 1 MPa
Tensile Strength (Z)	46 ± 2 MPa	3 ± 0.50 MPa
Elongation At Break (XY)	10 ± 1 %	190 ± 15 %
Elongation At Break (Z)	5 ± 1 %	60 ± 6 %

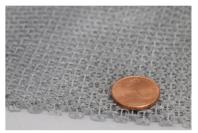
<sup>\*</sup> Available on request

# **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.

