

# Sindoh

## S100

powered by **materialise**

### Korea's First Largest Polymer Industrial SLS 3D Printer



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Korea's First Largest Polymer Industrial 3D Printer, Sindoh S100 providing sustainable and innovative AM solutions from the rapid prototyping to the serial production.



Sindoh S100 is a fully open and flexible polymer laser sintered system with easy operation and maintenance through material packages offered and remote diagnostic maintenance capabilities.

Sindoh S100 is the first commercially available machine with Materialise's latest innovative process technology, Bluesint PA12 that creates a path towards eliminating waste in 3D printing. With Bluesint PA12, powder that would normally be wasted can be given a second life to make new parts, drastically increasing the resource efficiency of Laser Sintering.



### Robust Design

- Manufacturing proof machine installed at Materialise Manufacturing
- Repeatability of the build with consistent printing accuracy



### High Productivity

- Build Container Volume of 510 x 510 x 500mm (20.1 x 20.1 x 19.7 in)
- Two Feed Systems
- Laser Scan Speed: up to 15m/s (33ft/s)



### Easy Operation and Maintenance

- Semi-automatic calibration
- Remote diagnostic maintenance capabilities
- 25.1-inch full color touch screen HMI



### Fully Open and Flexible Printing Process

- Material Packages Offered PA12, PA11, TPU, PP
- Enable to customize own printing process



### Printing with up to 100% Re-Used Powder

- Bluesint PA12, Materialise's process technology applied
- Similar mechanical and visual properties but printed with 100% recycled powder



### Industry Leading 3D Print Software Bundle

- Each S100 printer is bundled with Magics Print, Materialise BP and MCP.
- Compatible with Magics 25 and Streamics to support industry-scale 3D print production



## Applications



Aerospace



Automotive



Industry



Lifestyle



Medical



Tooling



Architecture



Academic Program



Rapid Prototyping





## First Largest Industrial Polymer 3D Printer with Bluesint PA12

**Sindoh**  **S100**

Sindoh S100, a fully opened and flexible SLS printer that empowers to customize its own printing process with material packages offered. First commercially installed system with the Bluesint PA12, a process technology developed by Materialise will drastically increase the resource of efficiency of Laser Sintering for the rapid prototyping to the manufacturing.

## Specification

Specification	Description
Build Container Volume	510 x 510 x 500 mm (20.1 x 20.1 x 19.7 in)
Laser Type	2 x CO2 ; 2 x 100W
Laser Wavelength	10.6 μm
Scanners	2 x 3-axis Digital Scanning System
Scanning Speed	Max. 15 m/s (33ft/s)
Layer Thickness	0.06 ~ 0.18 mm
Build Speed	4.7 L/h (18mm/h)
Powder Bed Temperature	Max. 200° C
HMI	21.5-inch Full Color Touch Screen
Power Supply	380~410VAC 3/N/PE
Dimension (W x D x H)	2,790 x 1,590 x 2,316 mm (110 x 62.6 x 91.2 in)
Recommended Installation Space	4,100 x 4,000 x 3,400 mm (161.4 x 157.5 x 133.8 in)
Weight	Approx. 2,500 kg (5,511 lb)
Software	Materialise Control Platform (MCP) Materialise Software Bundle - Magics Print, Build Processor - Compatible with Magics 25, Streamics
Materials	PA12, PA11, TPU, PP
Optional Auxiliary Equipment	Functional Breakout Station

MEMO