

The logo for LITHOZ, featuring the word "LITHOZ" in a bold, black, sans-serif font. The letter "O" is highlighted in yellow. A registered trademark symbol (®) is located at the top right of the "Z".

LITHOZ®

A close-up photograph of the front door of a white industrial 3D printer. The door has a black handle, a yellow emergency stop button, and a small rectangular window. The printer is set against a dark grey background.

# CeraMax Vario V900

The New LIS-based Ceramic 3D Printer

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**Thanks to water-based suspensions and the easy reintroduction of green parts into the familiar post processing steps, LIS closely follows the classical ceramic process chain.**

PROF. DR. JENS GÜNSTER | BAM

”

**For the traditional ceramic industry, the CeraMax is a perfectly easy-to-use entry into 3D printing.**

DR. THOMAS MÜHLER | QEP3D GMBH

# The printer

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**Weight**  
ca. 450 kg

**Size**  
2.20 m  
0.95 m  
1.85 m

**Power**  
120 W



**Discover  
more**

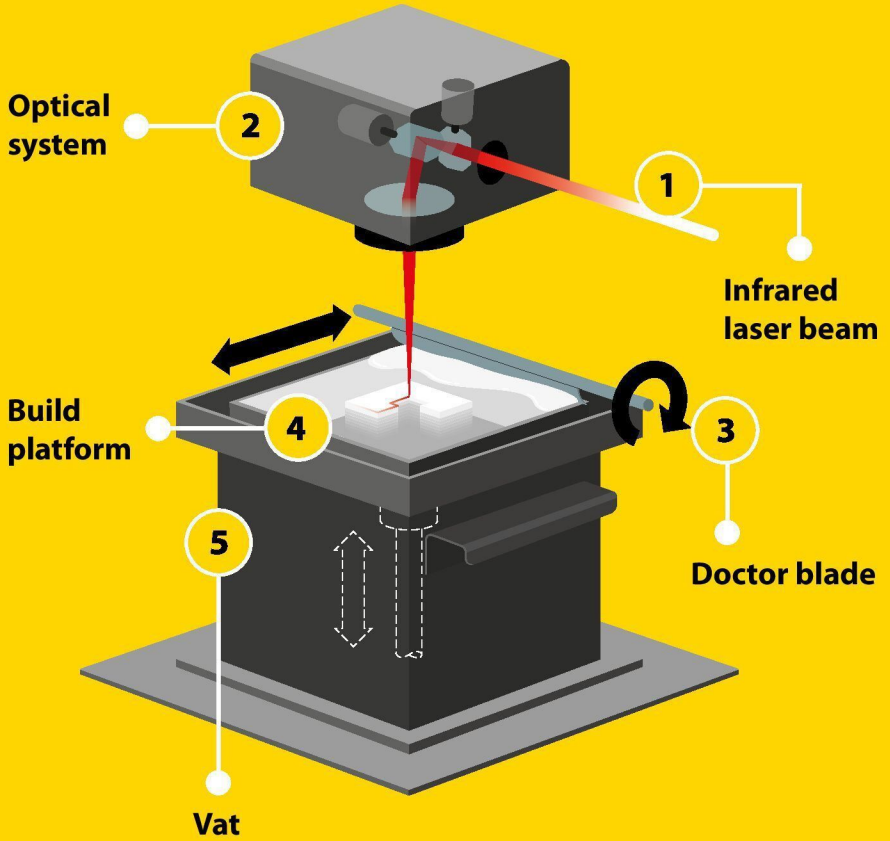
## The specs

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Layer thickness	200–1000 µm
Building envelope (x / y / z)	100 x 100 x 290 mm or 250 x 250 x 290 mm
Data format	.stl (binary)
Number of vats	1
Number of build platforms	1
Laser spot diameter (1/E <sup>2</sup> )	approx. 0.5 mm
Light source	CO <sub>2</sub> Laser
Cooling options	Water-cooled chiller (stand-alone device)
Size (L x W x H, incl. signal tower & handles)	1.85 x 0.95 x 2.20 m
High precision optics	F-Theta-lens; high speed scanner
Scan speed	up to 8 m/s
Weight	ca. 450 kg
Power	120 W

# The technology

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Discover more

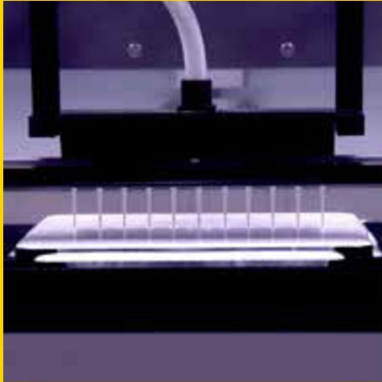
## The benefits

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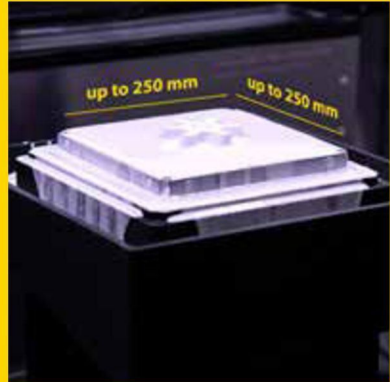
- Ceramic 3D printing of large parts with thick walls and high density
- Processing of dark ceramics such as silicon carbide
- Economical water-based slurry with very little organic binder
- Straightforward use of slightly adapted own materials
- Elimination of tools and time-consuming sampling trials
- Flexible scan strategies adjustable to part design
- Rapid build-up speed: up to 1.000  $\mu\text{m}$  in < 60 sec. per layer
- No additional debinding necessary
- Green bodies simply reintroduced in conventional post-processing
- Easy machining of near-net-shape components in green state
- Precisely repeatable results thanks to water-cooled laser system
- Easy-to-understand, low risk technology for ceramic industry

# The details

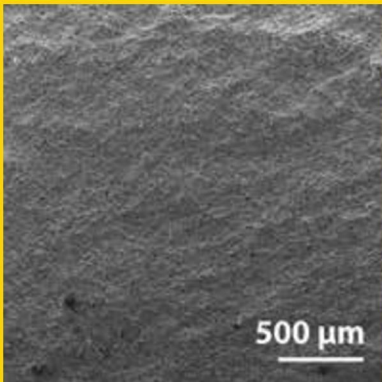
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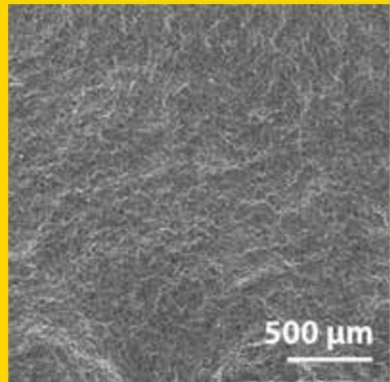
A new layer of slurry being deposited with a height of 300  $\mu\text{m}$ .



A finished green part after being elevated from the vat.



SEM image of sintered alumina sample manufactured on the CeraMax Vario V900.



SEM image of sintered silicon carbide sample manufactured on the CeraMax Vario V900.



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