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www.lithoz.com

How Ceramic 3D Printing Has Scaled to Industrial Production

ceramics expo

AUGUST 29 – 31, 2022

CLEVELAND, OH, USA

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Manufacture the future.

BOOTH: 1116

Welcome to Lithoz.

We are ceramic 3D printing.

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Your Trusted Partner in Ceramic 3D Printing

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Global market & innovation leader for ceramic 3D printing

We offer a full solution of **3D printers, materials, software, and customized solutions.**

Quality management system ISO 9001:2015

110+ employees
4 locations (Austria, USA and China)

100+ machines worldwide
25 % of **customers with 2** or more machines

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Ceramic Additive Manufaturing

General thoughts on AM mass production

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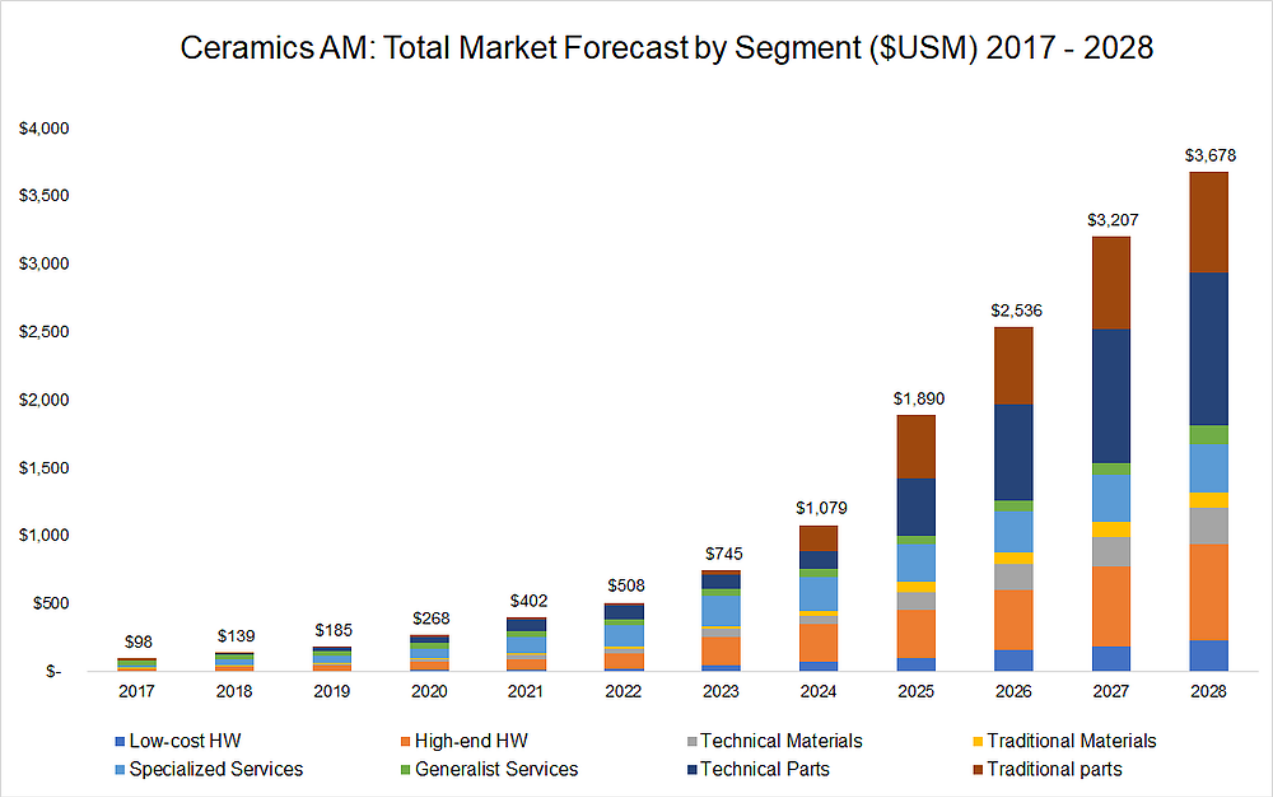
Market Growth



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Material Portfolio

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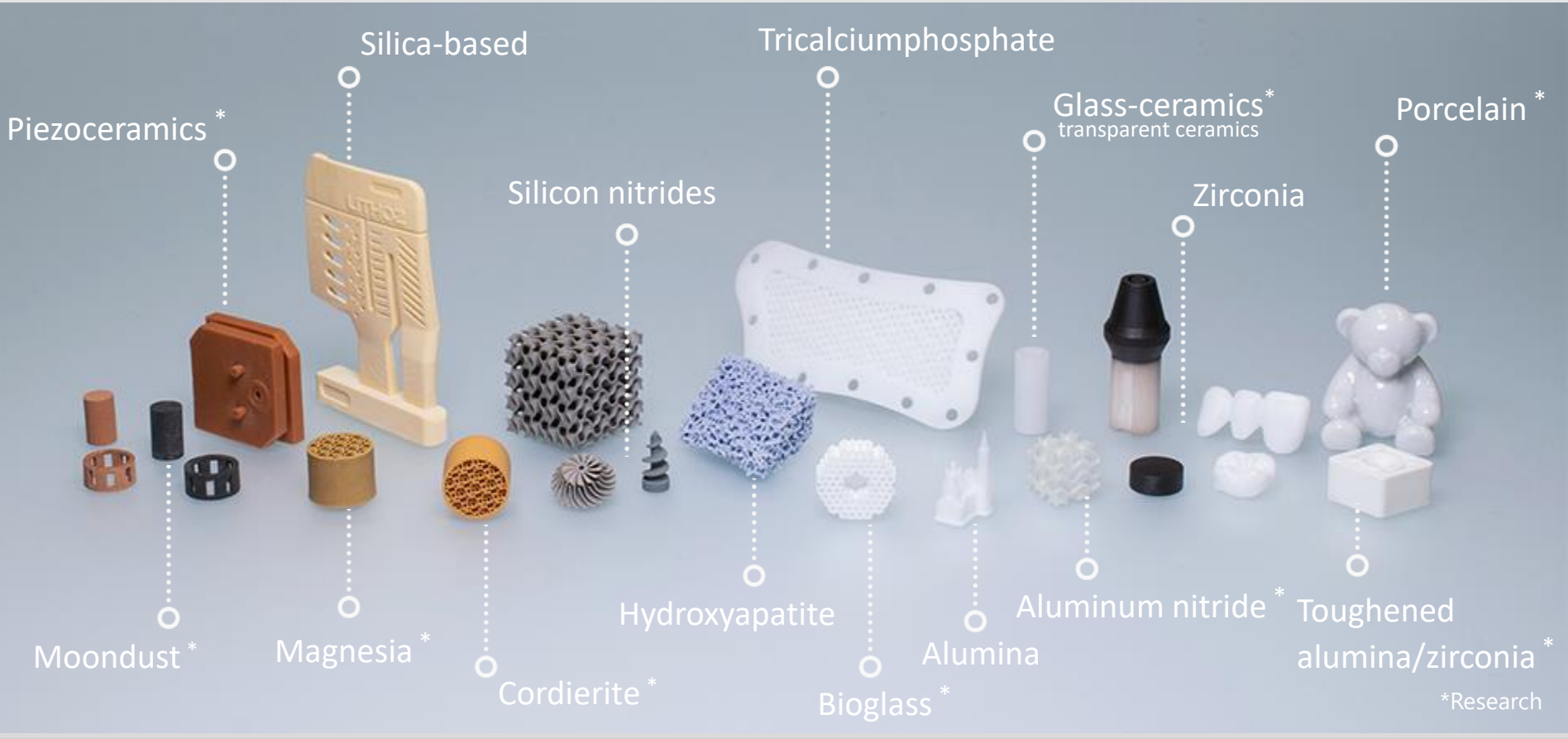

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Additive Manufacturing

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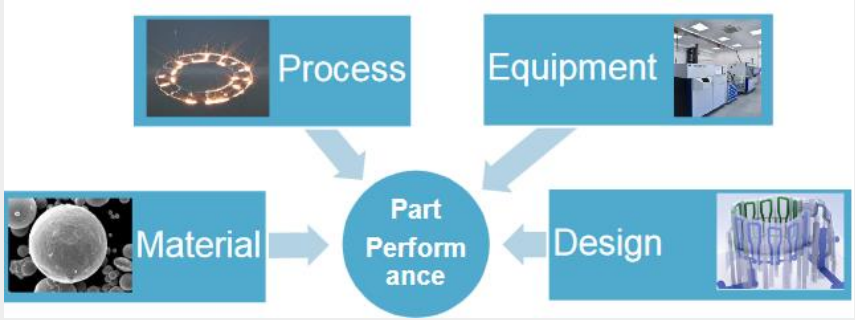
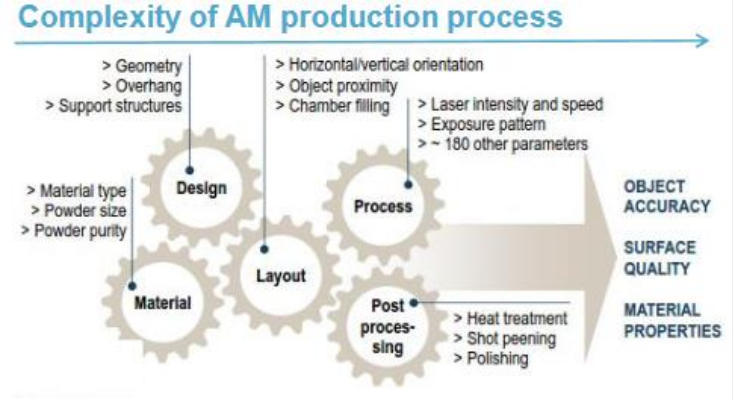
The challenges with all AM technologies: The interaction of material, design, process and equipment is much stronger than with conventional manufacturing technologies





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Transform Your Business Through AM

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Increase your competitiveness and set yourself apart from competitors

FREEDOM OF DESIGN

FLEXIBILITY THROUGH DIGITAL PRODUCTION

CUSTOMIZATION OF PRODUCTS

PROTOTYPE AND ACCELERATE TIME TO MARKET

DEVELOP REVENUE GENERATING PRODUCTS FOR EXISITING AND NEW MARKETS

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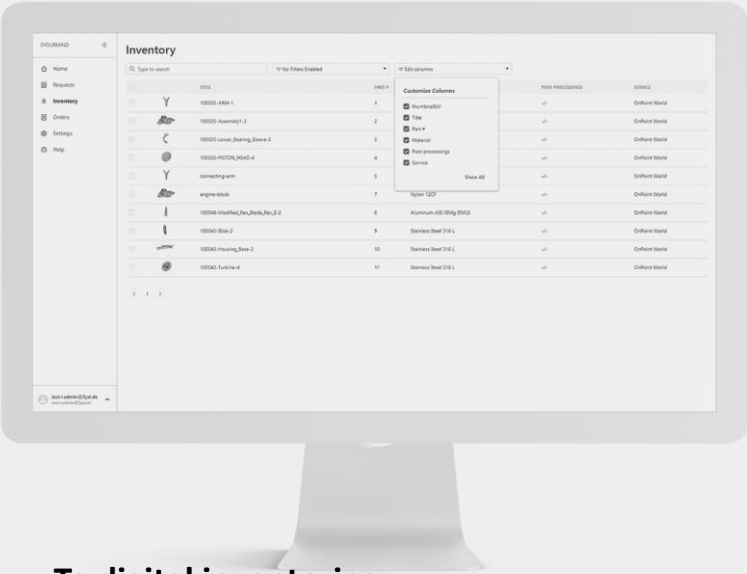
Digital Warehouse

- Reduced lead time and inventory **for industries dependent on spare part management (i.e. semiconductor, machinery)**

From expensive warehouses…



To digital inventories

https://www.3yourmind.com/agile-plm

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Industrial Applications

Productivity

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Dental two piece implant

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258 000 implants per year

- 198 implants per run
- 2 min per implant
- 0.5 g / implant
- 258,000 implants per year with a single CeraFab System S65

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If This is Still Not Enough…

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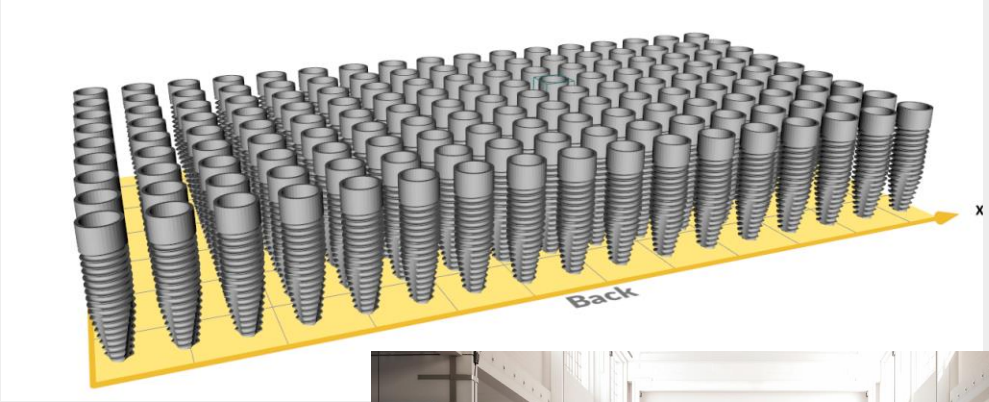
Think bigger!

- With CeraFab System S65 4x



- **More than 1 million implants per year**

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New Technologies

Multimaterial and LIS

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Multi-Material 3D Printing

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Ultimate answer for developing 3D-printed multi-material components

ceramic - ceramic	ceramic - metal	ceramic - polymer
Alumina / ZTA	Zirconia / Stainless steel	Alumina / Polymer

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LIS – Laser Induced Slipcasting

CeraMax Vario V900

- Laser-based technology
- Solution to print large and colored ceramic parts with full density and thick walls
- Complementary to LCM

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Outlook

Committed to your vision of innovation

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Extensive Know-How

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CONTACT US

- Ceramic AM is on the edge of industrialization
- First serial projects already started
- Productivity is far better than expected
- Application development is underestimated => collaboration along the whole process chain necessary

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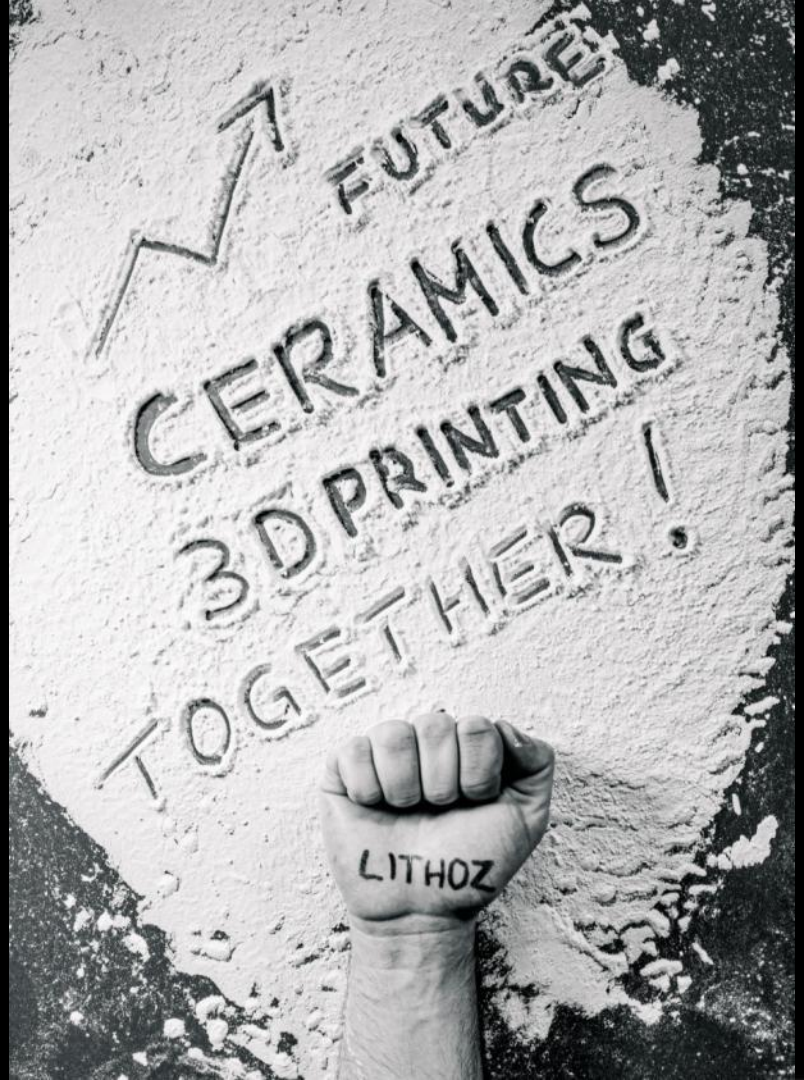

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