

**Product information: CeraFab System**

The **CeraFab System** is Lithoz's answer to all questions concerning the industrial series production of additively manufactured, high performance ceramics. The modular design of the **CeraFab System** allows for a cascade system of up to 4 production units per electronic unit, greatly increasing the output productivity and minimizing the risk of production loss. A server-based database for the storage and processing of the process data facilitates the complete documentation of print jobs and provides realtime monitoring. A WQXGA projector allows for a higher resolution of 2560x1600 pixels and guarantees absolute precision in printed components, particularly in micro areas. A separate cooling concept for each different system unit eliminates potential heat buildup, and protects the components from dust contamination. The front doors swivel upwards, and the specially designed ergonomic design considerably simplifies the operability.

**Modern industrial standards meet innovation**

The **CeraFab System** is a highly innovative system, equipped with high quality industrial electronics and servo motors for smooth, dynamic movements. The long-term availability of spare parts is guaranteed.

**Lithoz customers go into serial production**

Lithoz is the primary technology provider and reliable partner for the additive manufacture and production of high-performance ceramic components, material diversity and development. Our customers benefit from our experience as market leaders and use our expert network of service providers and research partners to their advantage.

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## ADVANTAGES AT A GLANCE

### AN INCREASE IN PRODUCTIVITY THROUGH THE CASCADE SYSTEM

- Modular design of up to 4 production units
- Production reliability through the cascade system
- Increase in production due to the increased building speed, with constant precision (0.03% deviation)

### ADDITIONAL FEATURES

- Automatic material feed as standard
- Vibration dampened building envelope

### ERGONOMICAL DESIGN

- Optimized working height for improved usability
- Front doors swivel upwards for barrier-free accessibility
- Bright interior paneling for unrestricted visibility and uninterrupted monitoring



### ONLINE DOCUMENTATION WITH A SERVER-BASED DATABASE

- Server-based central database for storing and processing process data
- Online, real-time monitoring and complete documentation of print jobs
- Ability to change parameters during a print job

### DESIGN AND QUALITY

- High quality industrial electronics and guaranteed long-term availability of replacement parts
- New drive system for smooth, dynamic movements and machine controls through a real time system

### HIGHER RESOLUTION DUE TO WQXGA PROJECTOR

- Higher resolution and even finer geometries due to state-of-the-art DLP chip
- Better performance due to a water-cooled (LED) light source
- Clean appearance as a result of the encapsulated installation

#### Technical Properties

Lateral resolution	25 oder 40 µm (variants possible)
Layer thickness	10 – 100 µm
Number of pixels (X, Y)	2560 x 1600 – WQXGA
Building envelope (X, Y, Z)	64 x 40 mm or 102 x 64 mm, different z-axes available, up to 320 mm
Format of data	.stl (optional: png. Import of shift information)
Light source	LED
Build speed	Up to 150 layers an hour
Machine size (L x W x H)	1 production cell including a control unit (L x W x H): 1.05 x 0.85 x 1.78 m
Weight	approx. 300 kg