

YOUR ENTRY INTO CERAMIC 3D PRINTING



High-resolution and accurate technology trusted for even the most precise of applications, such as these alumina aerospike nozzles



With the CeraFab Lab L30, Lithoz introduces **high-quality** Lithography-based Ceramic Manufacturing technology for **research, labs and new players** in various industries. Perfect for customized first part and small-scale production with **oxide ceramics**, the CeraFab Lab L30 is equipped with a range of Lithoz's expertly engineered materials and processing parameters, optimized to deliver exceptional part quality. The CeraFab Lab L30 uses industry-proven LCM technology to rapidly and accurately produce high-performance components.

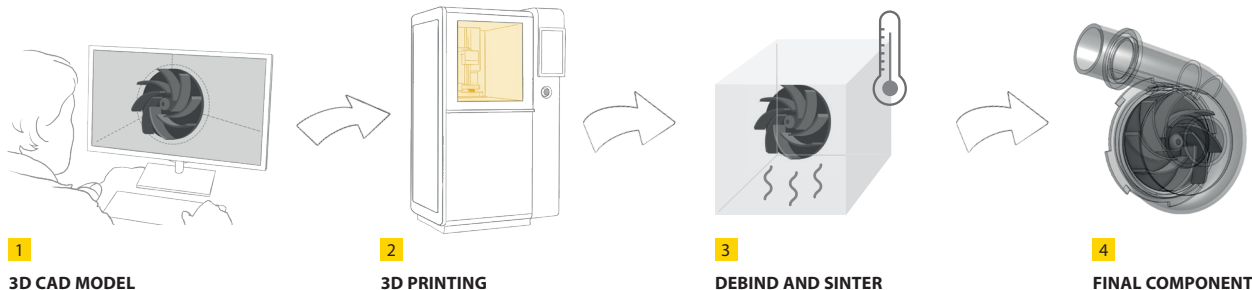
- Powerful **starting point** for ceramic 3D printing
- **Fine-tune** your 3D-printed parts and designs
- Research, labs, shop floors and **new industrial players**

QUALITY POWERED BY LITHOZ

The **CeraFab Lab L30** is a **shop floor-friendly** 3D printer with the full power of Lithoz's original CeraFab 7500, expertly condensed and specifically developed as a **starting point** for **ceramic 3D printing**. After **10 years** of successful use in research and industry, the technology powering this machine is reliable and effective – you can be sure that the CeraFab Lab L30 offers the same **high level of Lithoz quality** when it comes to 3D printing.

This 3D printer enables the development and use of **own materials**, while the near-limitless **design freedom** offered by the LCM process opens the door to new markets and applications to drive your product innovation further than ever before.

THE PROCESS



THE PROCESS EXPLAINED

The first step is the job preparation using **intuitive CeraFab Control software**, with information being digitally transferred to the 3D printer. After the quick and easy loading of the machine, ceramic slurry is then automatically dispensed into the vat. The build platform is dipped into the slurry, which is exposed to light from below. This cures the entire surface of a layer at once, greatly speeding up the entire process compared to laser-based technologies. After undergoing a debinding and sintering process, the fully dense and high-performance 3D-printed parts are ready.

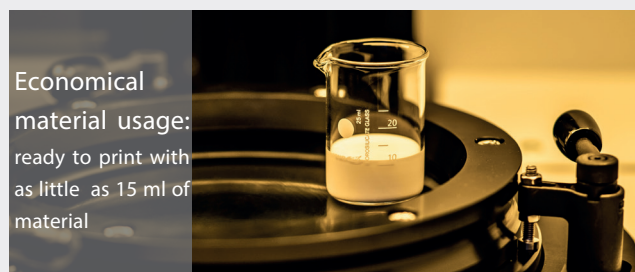
EASY TO USE, EASY TO OPERATE

The intuitive CeraFab Lab L30 operates with the ease of an entry-level machine, utilizing **advanced DLP mask exposure** to build complex ceramic 3D-printed green parts. The intuitive interface of the machine facilitates **easy operating** and **handling**. Material can be quickly and easily loaded into the machine, while the vat's quick locking system means it can be switched out and a change of material completed in just a few minutes.



MATERIAL-SAVING TECHNOLOGY

The CeraFab Lab L30 ensures that you can increase your efficiency and save material costs by making the entire process economical. By using light exposure from below, you are ready to print with as little material as 15 ml. The nature of the process means that any material surrounding the finished parts doesn't need removing due to an upside-down build process and any leftover material can later be reused.



TECHNICAL PROPERTIES

Lateral resolution	50 µm
Slice thickness	25 – 100 µm
Build volume	76 x 43 x 170 mm (x/y/z)
Data format	.stl (binary)
Light source	LED
Build speed	Up to 100 slices per hour
Size (L x W x H)	0.75 x 0.55 x 1.6 m
Weight	150 kg
Electrical connection	230 V, 16 A (USA: 120V / 60Hz, 15A)
Software	Data preparation software included, add-on CeraAccess module
Accessories	Automatic material dispenser