For specialists.
From specialists.
For you. From egger.

3D Printers
evolupt 3|64
evolupt 3|128

egger Otoplastik + Labortechnik GmbH · Aybühlweg 59 · 87439 Kempten/Germany · www.egger-labor.com · www.egger-gehoerschutz.com

The evolupt | UV LED DLP® TECHNOLOGY 3D Printers

MATERIALS

PIXEL STITCH

HIGH POWER **UV LED**

Apart from an open library of raw materials, **egger** offers you a perfectly optimized material portfolio to match the **evolupt 3D printer.**

Outstanding performance concerning resolution and building volume.

Every single detail counts

Every part of the evolupt was designed to meet the highest possible standards. By using only state-of-the-art technology it was possible to create a system of outstanding quality and performance. The evolupt 3D printers offer both: minimal size, maximum building volume.

Desktop | **Manufacturing**

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Technology

The **evolupt** assembles a maximum of mechanical, optical and design know-how into a powerful desktop production unit engineered to the very last detail of which every millimeter was designed, engineered, and built to conform to the **highest performance standards.** This passion for detail paired with our extraordinary achievement of downsizing the 3D printers while increasing their building volume to the maximum, makes **evolupt 3D printers** true desktop factories.

OPTICAL **TECHNOLOGY**

· DLP®

The **evolupt 3D printers** use DLP®-Technology from **Texas Instruments.** Combined with **high power UV-LEDs** the **evolupt 3D printers** are able to print excellent quality layer by layer.

· PST – Pixel Stitch Technology

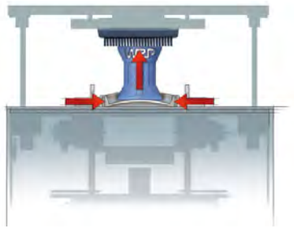
The revolutionary **Pixel Stitch Technology (PST)** allows the printers to offer a brilliant performance regarding resolution and building volume. By moving the opitcal light source with the highest precision, **evolupt printers** are able to generate larger objects with high resolution.

· UV-LED Light Source

The **evolupt 3D printers** are based on a solid state **UV-LED light source.** Its extraordinary power stability and performance leads to an accurate, repeatable and fast printing process. Using a UV radiation source makes it possible to support a broader range of **high performance materials with superior optical and mechanical properties.**

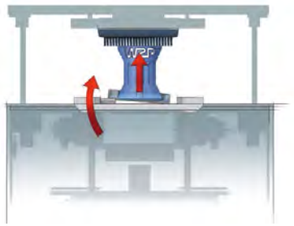
Resin Tank **Technology**

Based on intensive material studies and **Finite Element Modelling (FEM)** the engineering team was able to create a new approach to minimize the **peeling forces** during the printing process. Fewer support structures are needed and the post processing time is decreased, **resulting in a highly efficient print job.**



FLEX-VAT **TECHNOLOGY**

Parts with large cross-sections including small features can be printed with the **Flex-Vat Technology.** The Software offers different pre-set separation strategies by drastically minimizing the peeling forces. The Flex-Vat Technology helps to ensure the best printing process for your application.



TILT-VAT **TECHNOLOGY**

The new design for a smart resin tank is based on **»numerical peeling force simulation«** resulting in a **»one-piece« flexible 3D spring** to decrease the **separation forces.**

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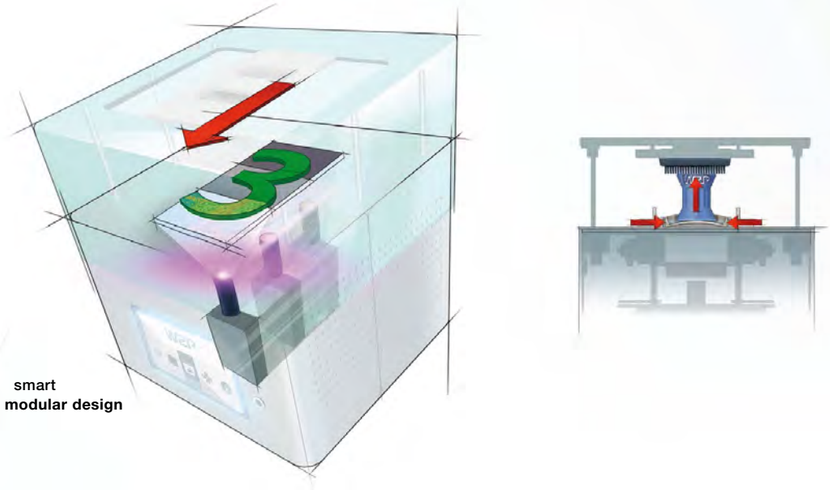

smart
modular design

SPECS evolupt 3|64

Printing | Properties

Dimensions
400 × 400 × 400 mm | 15.74 × 15.74 × 15.74 in

Technology
UV-LED DLP®

Weight
approx. 20 kg | approx. 44 lbs

Net Build Volume
64 × 120 × 100 mm | 2.5 x 4.7 x 4 in

Operating Temperature
18–28° C | 64–82° F

Pixel Size X, Y
~50 µm

Recommended Layer Thickness
25-200 µm

Power Requirements
85–260 V | 50-60 Hz | 138 W

Building Speed
Up to 56 mm/h – depending on material and size

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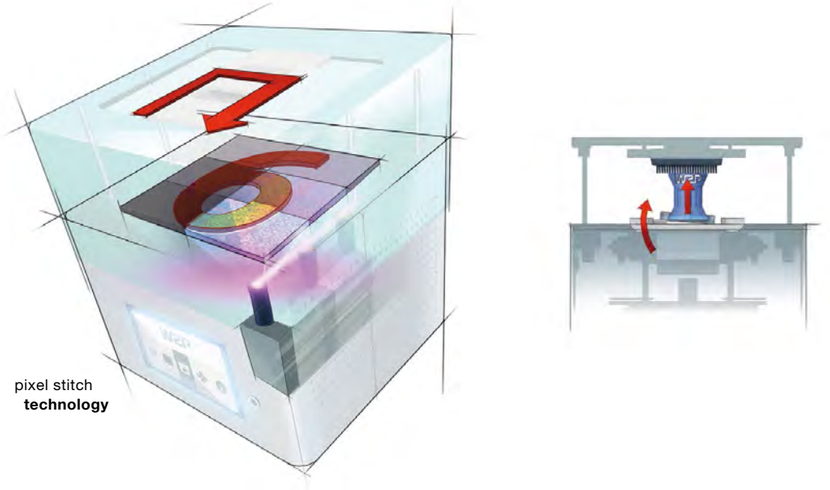


pixel stitch
technology

Specs evolupt 3|128

Printing | Properties

Dimensions
400 × 400 × 400 mm | 15.74 × 15.74 × 15.74 in

Technology
UV-LED DLP®

Weight
approx. 20 kg | approx. 44 lbs

Net Build Volume
128 × 120 × 100 mm | 5 x 4.7 x 4 in

Operating Temperature
18–28° C | 64–82° F

Pixel Size X, Y
~50 µm

Recommended Layer Thickness
25-200 µm

Power Requirements
85–260 V | 50-60 Hz | 138 W

Building Speed
Up to 56 mm/h – depending on material and size

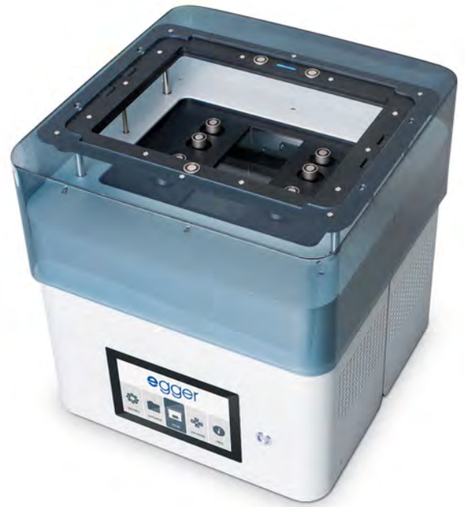
evolupt **3D Printers**

powered by W2P

W2P is a passionate team which sets its goal to create an **innovative 3D printer family** which is outstanding in **efficiency, speed, design and quality.**

Every aspect of the **evolupt 3D printers** is designed with performance in daily manufacturing in mind. Right from the start of our engineering and designing process we wanted to create a system with outstanding quality using only **state-of-the-art** technology such as **DLP®.**

Way To Production GmbH was founded in Vienna. A team of experts covers the whole development process such as **software, chemistry, mechanical engineering and applications.** Their motivation originates in the desire to create **innovative machines performing at the highest level.**



egger OTOPLASTIK LABORTECHNIK

Whether obvious or innovative, trend-setting or unbelievable but yet true. The substance the egger product portfolio is made of, in the first place is provided by the daily contact to our customers as well as our business partners. There is also our passion to try out something new.

This is the way how useful egger solutions continuously come to life; solutions which are adapted to the demand and expectation of hearing aid acousticians, earmold laboratories and sales partners in over 90 countries all over the world.

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