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W2P

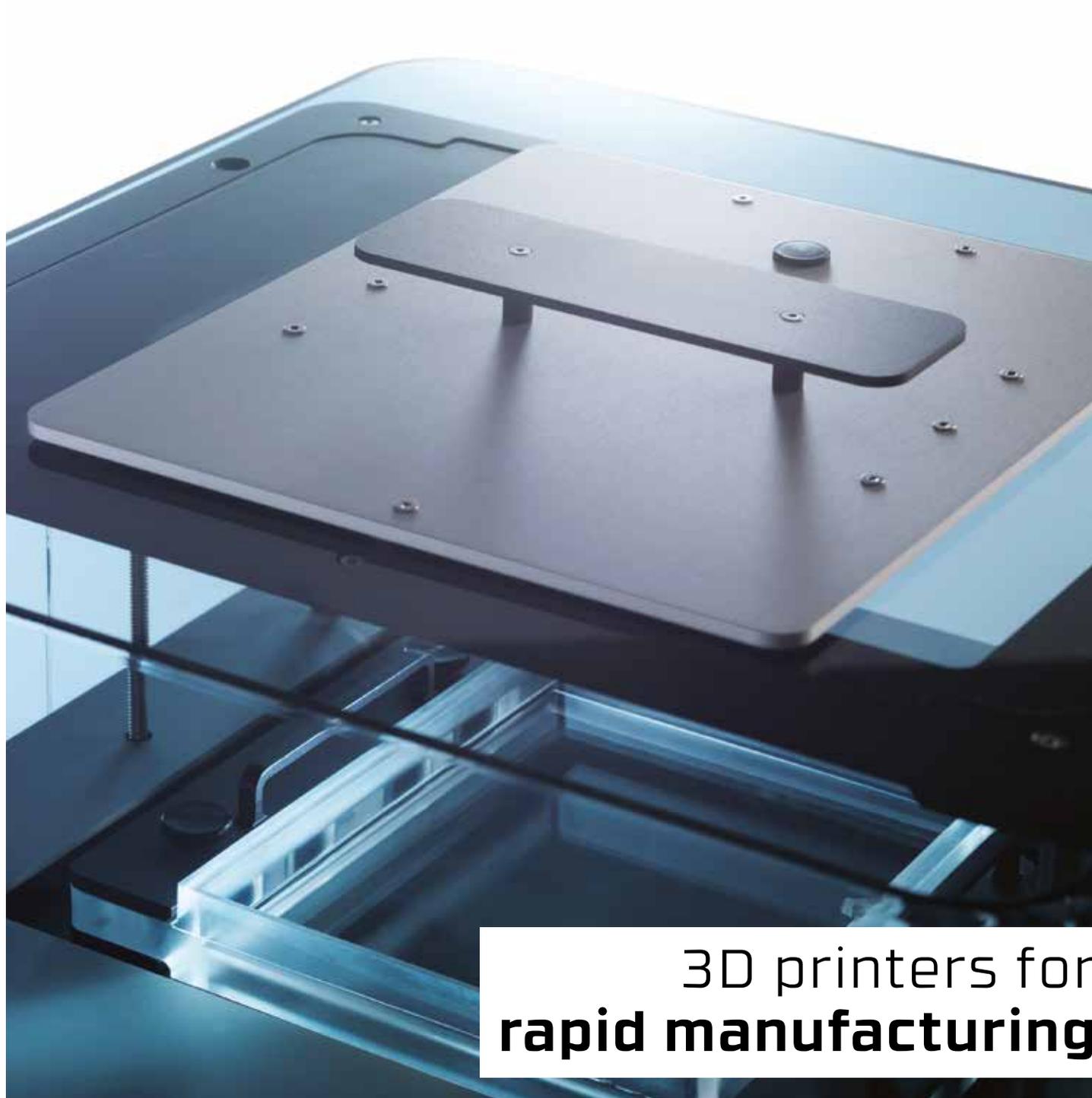
PERFORMANCE DESKTOP



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3D printers for
rapid manufacturing

|||||

W2P

BEAUTIFUL DESIGN

Who we are

We are a passionate team which sets its goal to create an **innovative 3D printer family** which is outstanding in **efficiency, speed, design and quality**. After an intense development process we are able to offer our customers a sophisticated tool to create complex parts with high resolution.

Every aspect of the **SolFlex** is designed with performance 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®**.

The **W2P Engineering GmbH** was founded in the Vienna region. Our team of experts covers the whole development process such as **software, chemistry, mechanical engineering** and **applications**. Our motivation originates in the desire to **create innovative machines performing at the highest level**.



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Our Mission

is to offer our customers real 3D printing solutions and enough flexibility in terms of process and materials

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THE SolFlex SERIES

UV LED DLP® TECHNOLOGY



Every single detail counts

Every part of the SolFlex was designed to meet the highest possible standards. By using only state-of-the-art technology we were able to create a system of outstanding quality and performance. We found a way to shrink the size of a 3D-printer while increasing the building volume to the maximum.

DESKTOP MANUFACTURING



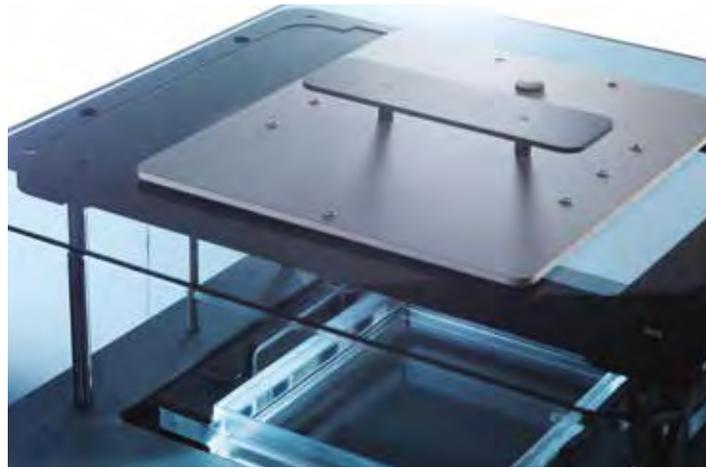
HIGH POWER UV LED

MATERIALS

W2P Engineering also offers a material portfolio which can be optimized towards customer needs.

PIXEL STITCH

Outstanding performance concerning resolution and building volume.



TECHNOLOGY

The **SolFlex** assembles all of our 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 our 3D-printers while increasing their building volume to the maximum, makes **SolFlex** 3D printers true desktop factories.

OPTICAL TECHNOLOGY

• DLP®

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

• PST - Pixel Stitch Technology

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

• UV-LED LIGHT SOURCE

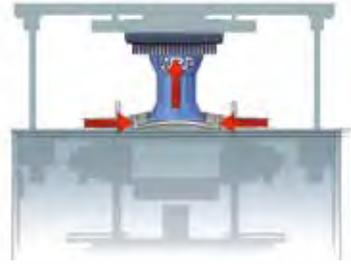
The **SolFlex 3D** printers are based on a solid state **UV-LED light** source. Its extraordinary power stability and performance leads to an accurate, repeatable and fast printing process. Using a UV radiation source allows us to support a broader range of **high performance materials** with superior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

• SENSOR MONITORED PRODUCTION

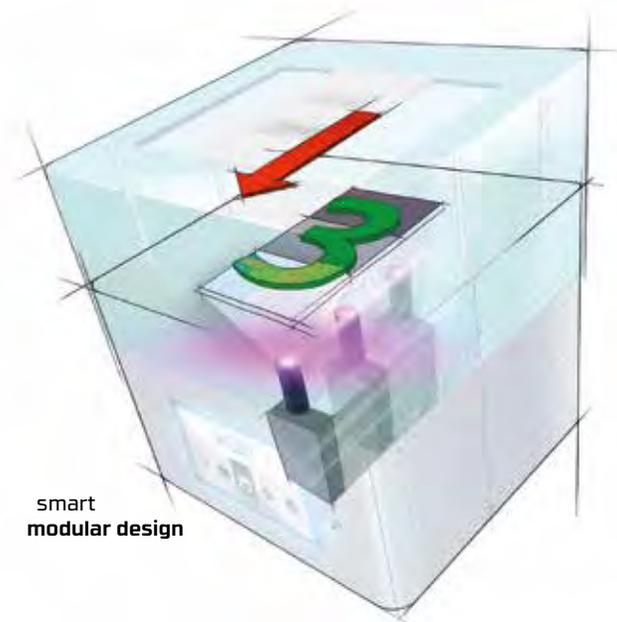
FLEX-VAT TECHNOLOGY

Based on intensive material studies and **Finite Element Modelling (FEM)** our 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**.

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.



W2P SolFlex | 350



smart modular design

Specs | SolFlex 350

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

Weight
approx. 20 kg | approx. 44 lbs

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

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

Printing | Properties

Technology
UV-LED DLP®

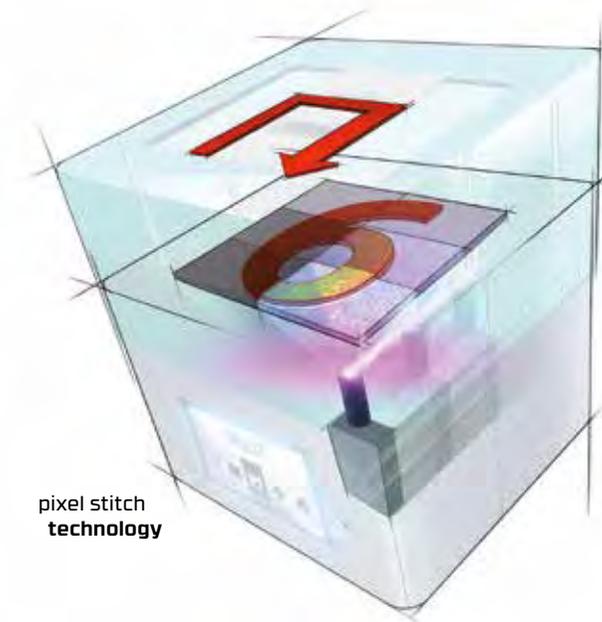
Build Volume
64 × 120 × 100 mm | 2.5 × 4.7 × 4 in*

Pixel Size X, Y | **Recommended Layer Thickness**
~50 µm* | 25-200 µm

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

* Pixel Size and Print Volume may vary.

W2P SolFlex | 650



pixel stitch technology

Specs | SolFlex 650

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

Weight
approx. 20 kg | approx. 44 lbs

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

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

Printing | Properties

Technology
UV-LED DLP®

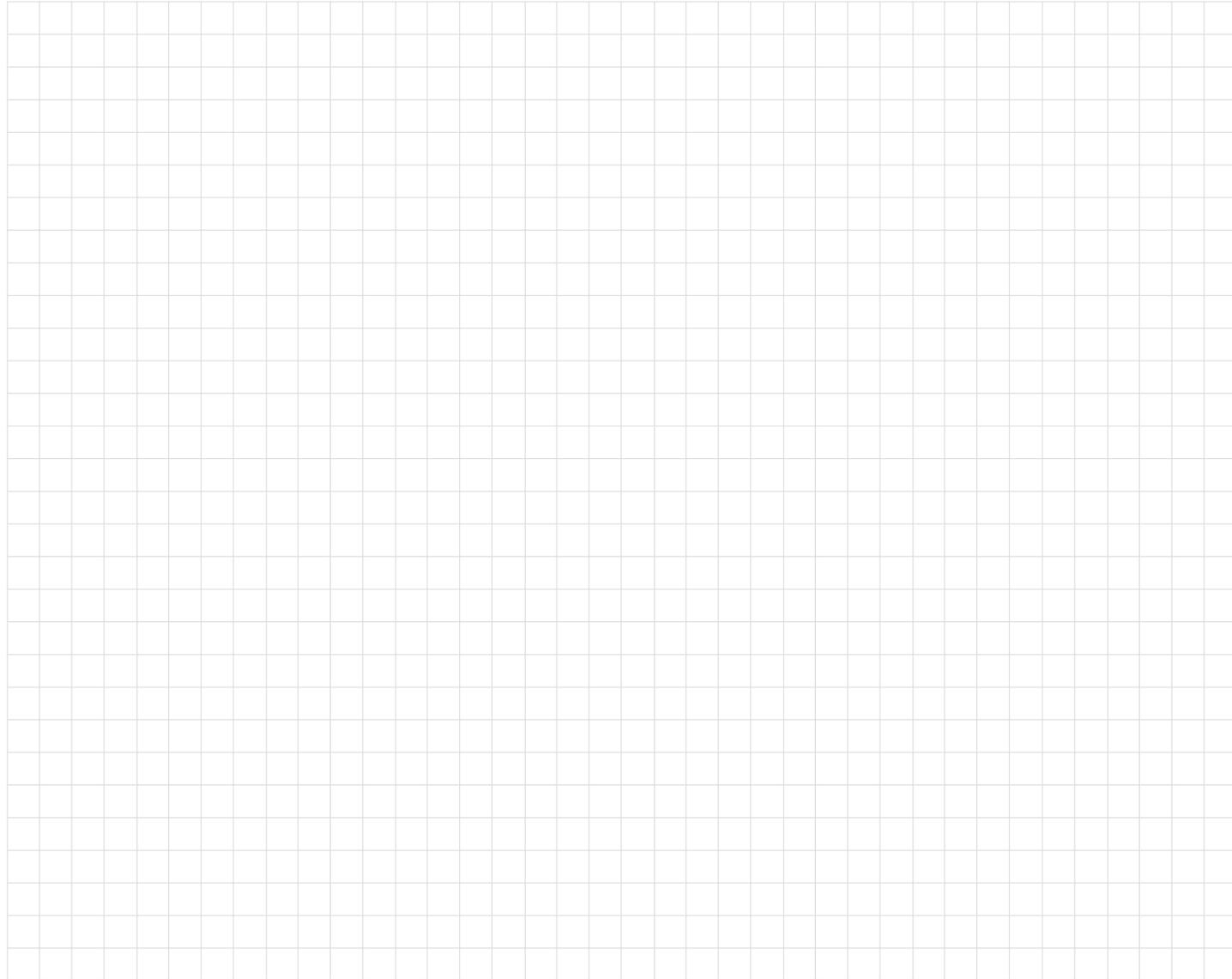
Build Volume
128 × 120 × 100 mm | 5 × 4.7 × 4 in*

Pixel Size X, Y | **Recommended Layer Thickness**
~50 µm* | 25-200 µm

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

* Pixel Size and Print Volume may vary.

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