DLP HIGH PERFORMANCE PRINTER FOR LABORATORIES AND DENTAL PRACTICES

Higher Accuracy

Time And Cost Saving
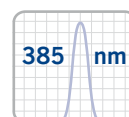
Process Reliability

Open Material System

Future-proof

SolFlex 650 · 350 · 170

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385 nm

VOCO
THE DENTALISTS

SolFlex 650 · 350 · 170

SolFlex 3D printer are elegantly designed by experts and are hand-crafted in Austria and Germany using only high-quality components in industrial quality. Complemented by large building volumes in a true desktop size and an easy to use touch screen interface and data transfer via USB or LAN, SolFlex 3D printers are robust machines that work at the highest level and with a noise level that is practically imperceptible.

DLP UV LEDs

SolFlex 3D printers use proven DLP exposure units (Digital Light Processing) with a wavelength of 385 nm. The advantage of the DLP is that the entire silhouette of the object is exposed in one step. Whereas SLA systems cure the printing resin point by point using a laser beam. The overall exposure of one layer in one step makes the DLP procedure faster, especially with multiple occupancy of the platform.

The SolFlex 3D printers offer access to the digital manufacturing process and thereby

- **Time and cost savings in terms of material and personnel** – through increased productivity
- **Process reliability** – qualitatively reproducible final results with consistent precision
- **Efficient workflows** – by reducing the working steps
- **Multiple printing** – simple duplication e.g. for objects in the casting technique
- **Future reliability** – steadily growing range of indications for dental laboratories and dental practices

SolFlex and V-Print

SolFlex 3D printers meet the individual requirements for patient-specific printed objects, like surgical guides for the navigated implantology, printed splints for gnathological therapy or customised denture bases.
V-Print printing materials have been developed with a focus on maximum user benefit. For example, the V-Print model materials are also suitable for deep-drawing processes and can be grounded easily without smearing the grinding instruments.

The know-how from four decades in the dental industry and leading resin technologies from our own research and development, make SolFlex 3D printers and V-Print prining materials, the variety of which is growing, become a real enrichment in the dental practice and laboratory. Intelligently designed V-Print printing resins from model and splint material to surgical guides or tray material to denture bases, Try-in objects or V-Print cast for casting and pressing technology, facilitate your daily work.

Technology

VOCO's SolFlex printers have a high-tech Texas Instrument DLP light source.
The light source of SolFlex 350 and 650 moves into different positions. Thanks to the highly precise movements of the light source, also known as Pixel Stitch Technology (PST), the SolFlex 3D printers are able to produce even larger objects with very high resolution regardless of where the object is placed on the platform. This ensures that the distance between the light source and the object is always the same and the light scattering losses and thus precision losses are avoided.

SolFlex 650

Six DLP moving-points

Section of the movable light source

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Delicate and solid objects - with SolFlex and PowerVat always highly precise!

The SolFlex 3D printers are designed for precise prints of delicate as well as large and solid objects. To meet this requirement, the SolFlex printers are equipped with a rigid tray, the so-called PowerVat. The PowerVat is wear-free and durable. Only the cost-effective foils need to be changed when required.

SolFlex 3D printers

SolFlex 170   SolFlex 350   SolFlex 650

Available in 3 different sizes

The SolFlex 3D printers are available in three different sizes. Depending on your needs, there will be a SolFlex printer for you.		SolFlex 650	SolFlex 350	SolFlex 170
Max. capacity[1]	Models	6 / 12	3 / 6	2 / 4
	Surgical guides	6 / 12	3 / 6	2 / 4
	Splints	12 / 24	6 / 12	3 / 6

[1] Full arch splints, models and surgical guides. Printed on one or two levels with individual support.

Dr. Miguel Stanley, Portugal:

"The SolFlex 3D printer is a user-friendly device with a very nice design that allows improvements on manufacture quality and precision. We used this technology to create amazing clinical cases with great accuracy."

SolFlex 650 · 350 · 170

DLP HIGH PERFORMANCE PRINTER FOR LABORATORIES AND DENTAL PRACTICES

- **Long-life, high-power UV LED** – for precise exposure in one step
- **Pixel-Stich-Technologie (PST)** – higher accuracy across a larger building capacity

- **Simple handling** – thanks to an intuitively usable touch screen and data transfer via USB or LAN
- **PowerVat** – non-wearing and durable
- **Open Material System** – use V-Print materials or resins from other manufacturers

Technical data

	SolFlex 650	SolFlex 350	SolFlex 170
Base area	400 × 400 mm	400 × 400 mm	296 × 318 mm
Build area	128 × 120 mm (6 exposure areas)	64 × 120 mm (3 exposure areas)	56 × 89 mm (1 exposure area)
Max. build height	130 mm	130 mm	120 mm
Layer thickness	25 - 200 µm	25 - 200 µm	25 - 200 µm
Building speed	up to 138 mm/h[2]	up to 138 mm/h[2]	up to 138 mm/h[2]
Pixel size	50 µm[3]	50 µm[3]	70 µm[3]
Precision	± 25 µm	± 25 µm	± 35 µm

[2] Depending on layer thickness material etc.   [3] Pixel size and print volume may vary.

Presentation SolFlex 650

REF 9105	SolFlex 650 PV – 3D printer
REF 9113	PowerVat 650 – material reservoir
REF 9114	PowerVat 650 – foils
REF 9122	Platform – building platform
REF 9123	PowerVat 650 – light protection cover

Presentation SolFlex 350

REF 9103	SolFlex 350 PV – 3D printer
REF 9311	PowerVat 170 HD – material reservoir (suitable for SF 350)
REF 9121	Platform – building platform
REF 9312	PowerVat 170 HD – foils (suitable for SF 350)
REF 9313	PowerVat 170 HD – light protection cover (suitable for SF 350)

Presentation SolFlex 170

REF 9101	SolFlex 170 PV – 3D printer
REF 9119	SolFlex 170 – building platform
REF 9120	SolFlex 170 – case cover
REF 9314	PowerVat 170 – material reservoir
REF 9134	PowerVat 170 – foils

Available from:

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