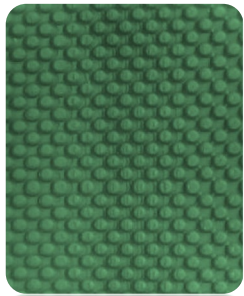# RAPID Mould Insert Printing

Post Curing Process

Injection Moulding Machine

eMould
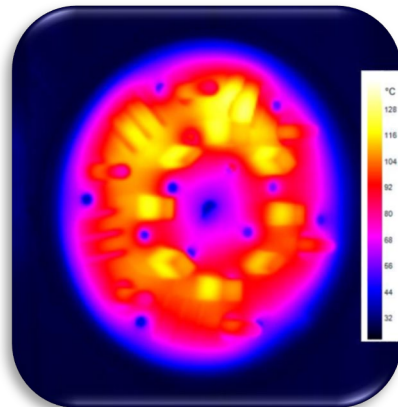## SKZ Das Kunststoff-Zentrum Validated Process Chain
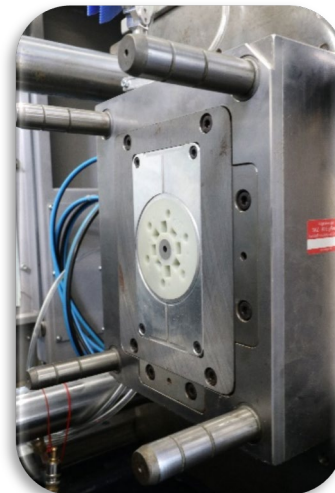## envisionTEC

Small Series Production

free choice of injections material
large variety of materials
PP, PPGF30, PBT, TPE-S, ABS, PE, POM..

Injection

Mould Insert Assembling

Set Injection Parameters

RAPID TOOLING

PPGF30

PBT

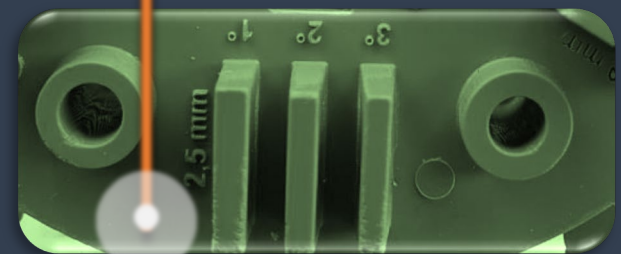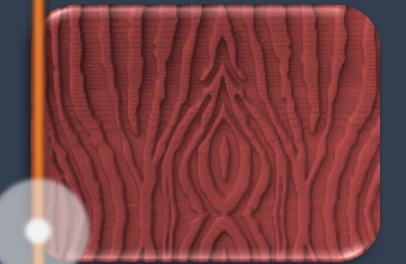PKGF30

ABS

PE

TPE-S

PP

POM

.

.

Perfactory®

P4K

envisionTEC
P4K

Patents Pending

Introducing the only DLP-based 3D printers utilizing a true 4M pixel projector with UV optics tuned to 385nm wavelength. The P4K Series delivers the highest accuracy coupled with the highest finished product functionality. Utilizing Artificial Intelligence (AI) in pixel tuning to deliver extremely high quality surface finish, the P4K delivers next generation advanced DLP technology in 3D printing.

Machine Properties[1]	P4K 35	P4K 62	P4K 75	P4K 90
Build Envelope mm (in.)	90 x 56 x 200 (3.5 x 2.2 x 7.9)	160 x 100 x 200 (6.3 x 3.9 x 7.9)	192 x 120 x 200 (7.6 x 4.7 x 7.9)	230 x 143.75 x 200 (9.1 x 5.7 x 7.9)
Native Pixel Size XY	35 μm	62 μm	75 μm	90 μm
Pixel Size with ERM	23 μm	40 μm	49 μm	59 μm
Dynamic Voxel Resolution in Z (material dependent)	25 - 150 μm			
Projector Resolution	2560 x 1600 (WQXGA)			
Data Handling	STL			
Warranty	1 year included			
Footprint cm (in.)	73 x 48 x 135 (28.7 x 18.9 x 53.1)		73 x 48 x 160 (28.7 x 18.9 x 63.0)	
Weight	TBD			
Electrical Requirements	100-120V, 5.4 Amp 220-240V, 2.4 Amp			

System Properties

- LED outperforms UHP lightsources in cost savings and has an estimated life expectency of 20,000 hours
- Economic material use with no vat
- Minimized components make the system user serviceable
- Designed to run 24/7 in a production environment
- Delivered with all relevant software to enable automatic support generation and perfect model production
- Material changeover can be done quickly and easily

[1] Specifications are subject to change without notice

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Desktop

Vida

The Vida is a low-cost, open-architecture, easy-to-maintain and user-friendly 3D printer for a wide variety of professional and medical applications.

The Vida boasts a high-resolution projector running at 1920 x 1080 pixel resolution with custom UV optics. Once the print job is preprocessed on a computer housing the Perfactory software suite, it is transferred to the machine via Ethernet or USB and can run independently without the need for continuous connection to the preprocessing computer.

The surface quality of the printed models allows for production with no signs of stairstepping, unlike the visibility when using competing technologies. The versatility of the Vida allows for an impressive range of materials to be processed, giving users the ability to 3D print a wide variety of dental, orthodontic, hearing and other applications.

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Machine Properties[2]	Vida
Build Envelope	5.5" x 3.1" x 3.95" (140 x 79 x 100 mm)
XY Resolution	0.0029" (73 μm)
Dynamic Z Resolution (material dependent)	0.001 to 0.006 in (25 μm to 150 μm)
Light Source	Industrial UV LED
Data Handling	STL
Warranty	1 year back to factory included

System Properties

- Compatible with leading dental, hearing aid and other professional design software packages
- Any STL file of a model designed from an impression or a scanner can be printed
- Capable of printing a wide variety of dental, orthodontic and hearing applications
- Changeover between materials is quick and easy with no waste
- Very few moving parts guarantees a strong, reliable production system
- Touchscreen and Wi-Fi capability enhance the user interface

Footprint (L x W x H): 15.6 x 13.8 x 32.5 in. (39.5 x 35 x 82.6 cm)
Weight: 75 lbs (34 kg)
Electrical Requirements: 110 VAC @ 3A

Patents Pending