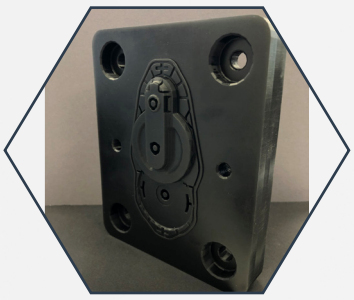
SKZ
Das Kunststoff-Zentrum

envisionTEC

3D Injection Printing
-Living Innovation-

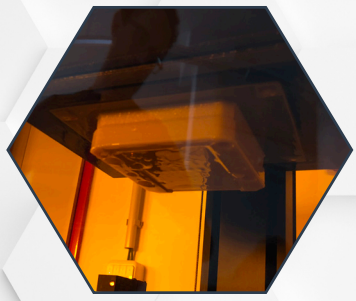
“We are really excited to offer the future to our customers. Produce professional and highly cost effective inserts with our range of premium 3d printers and material in just a few hours. This is a great opportunity to the manufacturing industry. Print, Post Cure, Perform are the keys to your success exclusively available at EnvisionTEC



3d printed inserts for injection moulding.

After almost three years of intensive cooperation between the South German Plastics Centre and EnvisionTEC GmbH, it has now been possible to bring a material resin to market that is used especially for printed tools based on photopolymer.

Ready for production inside the tooling assembly.



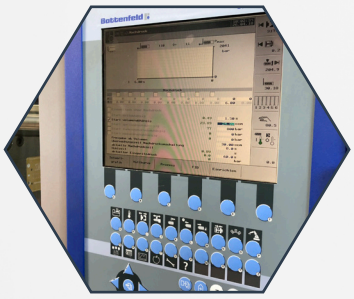
The printed Insert on our P4K 90 for different types of plastics.

In practice, the printed tools were injected with various plastics and tested under different conditions. SKZ‘s know-how in the field of injection moulding systems and EnvisionTEC GmbH as a manufacturer of 3D printers laid the foundations for a first successful cooperation

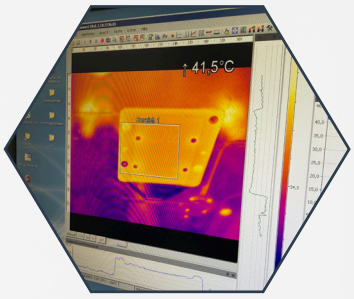
Injection Molding Machine from SKZ

Traditionally, plastic components are manufactured in large quantities from classic steel or aluminium tools. However, the delivery time, warehousing and procurement is expensive and usually associated with long waiting times.

According to Karl-Gustav Gienau (project manager, material and process development at EnvisionTEC GmbH), the main focus was initially on basic feasibility for injection moulding plastics into printed tools, taking into attention accuracy and performance for industrial applications. In the near future, tools for small production runs will be printed and produced within a few hours in an environmentally friendly and resource-saving process, saving production time from months to just a few days.



Individual Configuration for any type of plastics.



Temperature control of printed part during molding process.

Rapid Tooling with

PPGF30 | PKGF30 | PE | POM

PP | PBT | ABS | TPE-S