Case
Study

Implant
Model

W2P

Implant Model

Application: Implants
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Implants serve as an artificial tooth root for dental crowns, bridges or prostheses. In implant treatment, first the oral situation is reconstructed by a dental model based on an impression or intraoral scan. The implant model is used for planning and controlling of the treatment.
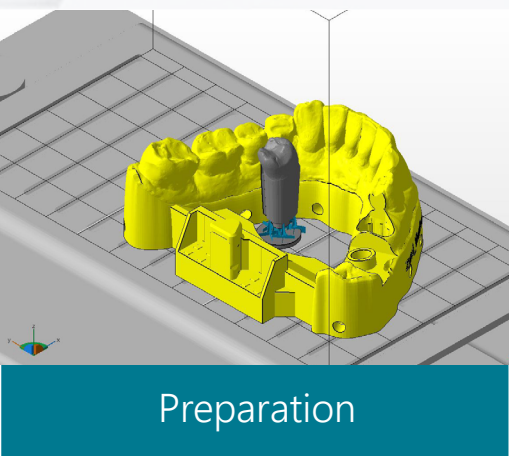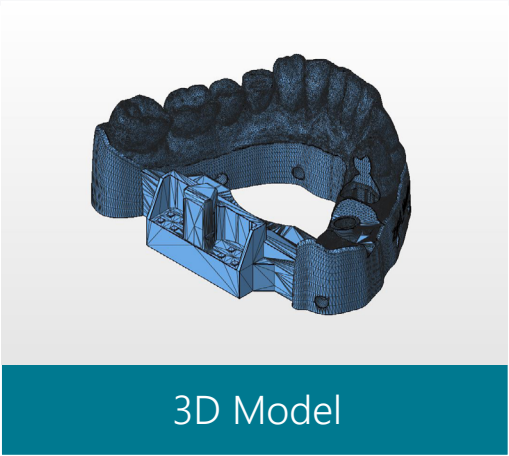
Requirements
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Prodution Method: very high precision, accuracy

Recommended Resins
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SolFlex Model Beige

Digital Workflow
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Preparation: Prior to the printing process, the models and dies have to be prepared for printing. A 3D printing software helps to place the model on the building platform. Also, support structures have to be added.

3D Model

Preparation

Printing Process: In the next step, the prepared files are being processed by the printer. In this specific case the implant models were 3D printed under the following conditions:

3D printer:	SolFlex 170 PLUS
Layer thickness:	50 µm
Printing time:	1:52 min.
Resin:	SolFlex Model Beige
Number of printed objects:	1
Resin use:	28 g
Total resin use (incl. support structures)**:**	30 g
Total resin costs:	€ 8.10

Depending on the size of the 3D printer's building platform, a different number of implant models can be 3D printed.

Number of models that fit on the building platform:

SolFlex 650:	4
SolFlex 363:	2
SolFlex 350:	2
SolFlex 170:	1

Post-Processing: The 3D printed implant models and dies are post-cured in a UV light box, cleaned and the support structures have to be removed.

Finished Object