

Protocol to fabricate a Scan Prosthesis

Fabricating a Scan Prosthesis with new or existing dentures or partial dentures that represent the optimized tooth position

Bone-supported and mucosa-supported Facilitate™ Surgical Guides

1. Place the denture in silicone material with the inside of the denture into the silicone and additional silicone outside the denture.
For partial dentures use a stone model with remaining teeth.
2. After setting, cut the silicone like a model with the denture/partial denture still in place. Make some additional cuts in the silicon to be able to reposition the key.
3. Form a key of silicone material and place buccally and covering the teeth. Make sure the silicone fills the cuts for repositioning.
4. Separate the two silicone parts and remove the denture/partial denture.
5. Use premixed radio opaque resin and fabricate the chosen type of scan prosthesis according to protocol.
6. Fill out the denture mold completely. If no radiopacity is needed for the mucosal part, use clear resin.
7. Once the resin is cured, remove the key and grind away the teeth to be extracted.
8. Fill the holes in the silicone key corresponding to the erased teeth with desired resin mix. Replace the key and let the resin cure.
9. Check the occlusion.
10. Grind and polish the scan prosthesis.
11. Make a bite index for separating the jaw during scanning procedure and for correct relation between the jaw.



Fabricating a Scan Prosthesis with a tooth set-up that represents the optimized tooth position

Tooth-supported Facilitate™ Surgical Guide

1. Take an impression.
2. Produce a stone model.
3. Make an optimized tooth set-up with prefabricated radio opaque teeth on the model.
4. Form a key of silicone material placed buccally and over the incisal edge and occlusal parts of the tooth set-up.
5. Separate the silicone key from the model and remove the tooth set-up.
6. Put the cleaned teeth back in the key and isolate the stone around the set-up.
7. Attach the teeth with clear cold-polymerising resin and build up onlay support on adjacent teeth. Like an ordinary stent.
8. Grind and polish the scan prosthesis.
9. Check the fit on the model.
10. Make a bite index for separating the jaw during scanning procedure and for correct relation between the jaw.

Instruction

Mixture of barium sulfate for the teeth and the base plate:

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Teeth: mixture of resin/BaSO₄ (15% BaSO₄)

Base Plate: clear resin

– **Mucosa-supported Facilitate Surgical Guide**

Teeth: mixture of resin/BaSO₄ (20% BaSO₄)

Base plate: mixture of resin/BaSO₄ (10% BaSO₄)

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Use a stent with prefabricated radio opaque teeth

The measuring and blending of the mixture needs to be performed very carefully.

- Insufficient barium sulfate will result in teeth that are not clearly visible on the CT scan.
- Excess barium sulfate will create artifacts in the images.

Premixed radio opaque resin can be obtained from anaxDENT

Barium sulfate can be obtained from a pharmacist or from a dental supplier, e.g. Vivadent Ivoclar

The prefabricate radio opaque teeth can be obtained from a dental supplier, e.g. Vivadent Ivoclar

The radio opaque silicone can be obtained from a dental supplier, e.g. Zemark