Making a CAD/CAM dental model
From intra-oral scan to finished model
Preparing the intra-oral scan

**Step 1** Trim the intra-oral scans.

**Step 2** Define the occlusal plane.

**Step 3** Trim the scan of opposing teeth.

**Step 4** If it was not scanned correctly, adjust the occlusal plane.

**Step 5** Select the tooth stumps and define the prep margins.

**Step 6** The digital dies are generated.

**Step 7** Select the Zenotec articulator <3Shape Quadrant>.

**Step 8** The stump model and the model of opposing teeth are generated.

**Step 9** Design the restoration in DentalDesigner™.

Once the model has been created and saved, click on the button <<Design>>. This will take you automatically to the DentalDesigner™ so that you can proceed to design the restoration.
**Result**

**Result 1** Milled Zenotec model in the Zenotec articulator.

**Result 2** Milled Zenotec model with final Zenotec posterior bridge in the Zenotec articulator.

**Result 3** Final work: posterior bridge in Zenotec Pro Fix B1.

**Milling times**

Complete quadrant model with one die:
- **Standard:** 1 h 36 min.
- **FAST:** 1 h 15 min.

Model with 2 removable dies for the Zenotec articulator: depending on the size of the dies, a milling time of 13 – 16 minutes is typical.
- **Standard:** 2 h 20 min.
- **FAST:** 1 h 30 min.

**Explanation of the standard and FAST strategies**

With the standard strategy, a clean, complete and detailed model is milled.

When the FAST strategy is used, the work is milled faster, but the quality of milling in terms of appearance is not as good and this is noticeable in areas which are not relevant to the dental work, e.g. the model base and the milling paths (milling steps). Undercuts at the teeth in the area of the gingiva are not accurately milled but some residual material is left in.
As a major supplier of dental system solutions, Wieland embodies both tradition and progress in matters of dental products and technology. Since our company was founded in 1871, we have stayed true to our corporate philosophy of combining tradition, innovation and quality with the best in customer care. Today, our core competencies and key strengths lie in the forward-looking integration of technologies and materials for dental prosthetics. This ensures that patients can trust in the quality of their restorations, and our partners in dental practices and laboratories can continue with confidence on the path to digitalisation and greater competitiveness.

Wieland offers a wide range of products and services from CAD/CAM technologies and dental alloys to veneering ceramics and electroforming. Thanks to our worldwide presence and international network, Wieland is never far away, and your contact person can always be located via the Internet.

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