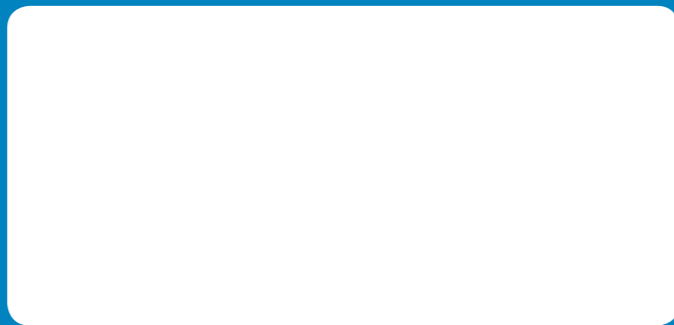




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High-tech for your teeth

CAD/CAM technologies
guarantee a beautiful smile



The most state-of-the-art
technologies in the field of dentistry

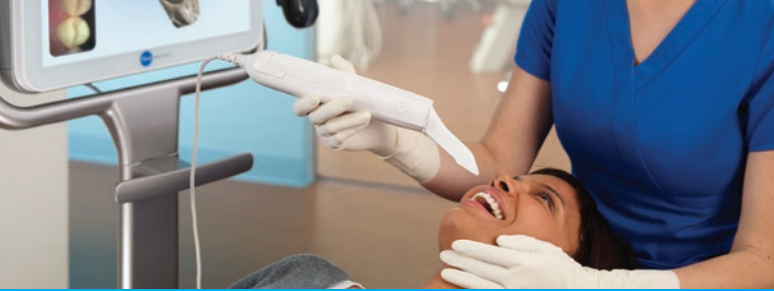
Digital technologies and modern materials help create an exact reproduction of natural teeth.

Do you need dental restorations – such as a crown or bridge? Then you certainly want them indistinguishable from your natural teeth. Furthermore, they should be biocompatible and long-lasting.

This desire is easy to fulfill thanks to tooth-colored ceramic materials that are fabricated utilizing computer-aided (CAD/CAM) technology. These new procedures and materials are replacing traditional techniques where metals were cast into the desired shape and then coated with tooth-colored material.

Computer-aided manufacturing can be used not only for the processing of ceramic restorations, it can also be used to create a variety of dental appliances such as bite splints.





The digital restoration

Creating the perfect smile

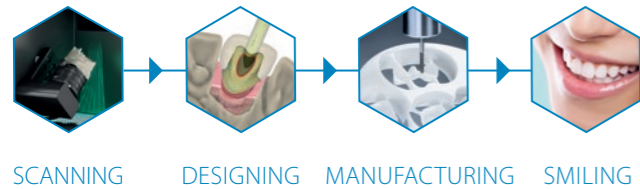
Comfortable protection of your teeth

A powerful partner in the background

This technology makes it possible that nearly all steps, from the scanning of your teeth to the fabrication of your dental restoration, can be done digitally.

The first step to produce dental restorations, such as crowns and bridges, is to get an impression of your teeth. This can be done traditionally with a tray and impression material. A lab scanner is used to transfer the information from a conventional impression into the digital environment. Or, an intraoral scanner can be used that records the teeth and creates a digital model.

From the digital model, that shows the exact form, size and positioning of your teeth, the crown or bridge is designed utilizing special software. Once designed, the fabrication of the restoration is done at a dental laboratory or a specialized milling centre on a precise milling machine.








SCANNING DESIGNING MANUFACTURING SMILING

Computer-aided manufacturing provides the tools and procedures to satisfy the highest aesthetic, compatibility and durability demands.

Full-contour ceramic for dental restorations is enjoying increasing patient popularity. This is because the ceramic crowns and bridges blend naturally to the surroundings. They are difficult to distinguish from the neighboring teeth – your smile looks radiant and natural. They also eliminate the dark margins that can occur with restorations built on a metallic core.

Furthermore, computer-aided manufactured full-ceramic restorations offer ...






-  **BIOCOMPATIBILITY** – they do not cause any tissue irritation or allergies
-  **PRECISION FIT** – they virtually guarantee the right fit, first time. Often no, or minimal, adjustments are required
-  **DURABILITY** – the restoration is strong and can remain in function for many years
-  **AESTHETICS** – the ceramic material is difficult to distinguish from the natural teeth
-  **SMILE DESIGN** – Please see the final result already before the treatment is starting via computer animation

The digital manufacturing of bite splints guarantees a high-quality, accurate fit.

People who grind at night generate a lot of stress on their teeth. A bite splint that allows your teeth to slide freely protects them from wearing and breaking down.

The production of the bite splint can be accomplished following computer-aided procedures similar to that of crowns and bridges. The greatest benefit: An exact fit, providing comfort without any feeling of tension on the teeth.


In addition, a high-grade, industrial-manufactured material is used in contrast to conventional methods. The associated advantages include:

-  **HIGH BIOCOMPATIBILITY** – nearly no residual monomers are released that could trigger allergic, toxic or systemic reactions
-  **HOMOGENEOUS STRUCTURE** – the material ensures minimum susceptibility to collect plaque or discolor
-  **COMFORT** – the bite splints can be produced with a minimum material thickness, providing a higher level of comfort
-  **REPRODUCIBILITY** – as the digital data of the splint is saved, it can easily be reproduced in case of fracture or replacement
-  **BLEACHING** – applicable for gentle bleaching overnight

Our experts assist dental laboratories regarding the procedures and equipment to produce high-tech restorations.

The involvement of our experts is necessary to offer support for the computer-aided production of crowns, bridges and bite splints. Zfx provides this service as a partner for dental labs worldwide.

Zfx consists of production centres, on one hand, equipped with most modern technologies where restorations ordered by the labs are produced. On the other hand, the company develops and distributes equipment (scanners and milling machines) as well as the materials for the production of digital restorations. We are a competent partner for laboratories to turn to for CAD/CAM technology, whether they are utilizing it in-lab or through one of our centres.

 **YOUR DENTIST IS WORKING WITH A ZFX PARTNER LAB – SO YOU CAN RELY ON THE HIGH QUALITY OF YOUR RESTORATIONS!**



Most modern, industrial 5-Axis-Milling Center with robot automation.