CEREC Software 4.5 – Made for Dentists

By Dentsply Sirona

Single-visit dentistry is an emerging expectation amongst patients today. Everything from a single source for safer, better and faster dentistry, and this is made possible by CEREC. Today, dentists can readily meet these expectations thanks to the CEREC SW 4.5 in which the workflow has been significantly improved and expanded to include a variety of features. The CEREC SW 4.5, with its intelligent tools, makes it even easier for newcomers to enter the world of digital dentistry.

**Intuitive:**
- **Easy, user-friendly operation**
  - Reduction of the number of steps required before production.
  - The tool bar is more compact and has been reduced to the necessary functions.
  - The screen is designed to remain clear and the user is intuitively guided through the workflow.
  - Simplified processing sequence for creating a virtual model.
  - Improved user guidance facilitates the workflow for all applications that are carried out chairside with CEREC SW 4.5.

**Intelligent Operation:**
- Fewer steps thanks to a high degree of automation
  - Automatic detection of typical restorations for “single-visit” treatment, such as inlays, onlays, crowns and veneers.
  - Automatic calculation of the optimal insertion axis, preparing the restoration in just two steps instead of four, setting of the model axis and entering of the preparation margin using the edge detection.
  - Designed to ensure a perfect fit if the preparation happens to deviate from the specifications.
  - Calculation of next work steps.

**Increase in Quality:**
- Aesthetic restoration proposals based on biogeneric calculation and shade detection
  - Improved biogeneric initial proposals that match the patient’s needs perfectly, even in difficult anatomical situations, based on the biojaw algorithm.
  - Analysis of tooth shade with independent function; structures are engineered to be represented realistically and in true, natural colour. This gives you objective support and more certainty when selecting the suitable restoration shade.
  - More detail in the image.
  - More realistic visualisation of model and restoration.
  - Optimised milling and grinding strategies for an improved fit.
  - Reduction of required computing power.

**BEAUTIFIL II LS**

By SHOFU

Beautifil II LS breaks new ground in direct resin technology with its extremely low polymerization shrinkage and related stress while exhibiting superior aesthetics, optimal mechanical properties, ease of handling and polish, lasting natural lustre and remarkable abrasion resistance for universal application. A novel low shrinkage “SRS” monomer formulation and unique filler technology significantly minimizes polymerization shrinkage stress while resulting in a more durable, robust and stable polymer complex that offers greater predictability to your restorations. Tooth-like optical characteristics enable an easy shade match for a wide spectrum of simple to complex, challenging cases. Beautifil II LS imparts additional anti-plaque benefits and sustained fluoride protection to all your restorations.

Available in Universal Dentin, Opacous Dentin, Enamel and Bleach White Shades.

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Middle East’s First Metal 3D Printed Surgical Guide

Dental 3D printing specialist, Sinterex, is now producing metal surgical guides with completely open structures

By Dental Tribune MEA / CAPPmea

Back in May 2017, we interviewed Julian Callanan, the Managing Director of Sinterex, and discussed how he and his business were applying metal 3D printing technology in dentistry. We caught up with him to find out his progress and the latest products.

DTMEA/CAPPmea: How have the last 6 months passed by?
Julian Callanan: The last 6 months have absolutely flown by. As a young business, we are on a constant roller-coaster ride with highs and lows combined with lots of learning. The summer in particular was quite tough, I know many clinics and laboratories found market conditions to be more quiet than usual, but things seem to be moving again now. Overall, we keep adding new customers, and once they convert from the traditional manual techniques to digital production, then they do not go back.

Are you working on any new products or technologies?
Our primary product line remains PFM crowns and bridges. However, since we last met, we have introduced two new products: Removable Partial Dentures and Metal Surgical Guides. The RPDs which we produce are a great solution for a partially edentulous patient who is not a candidate clinically or financially for implants. We use a metallurgical process called Solution Annealing which brings flexibility into our metal and helps with the fit for the patient. The second product is a metal 3D printed Surgical Guide. This is a really exciting innovation in Surgical Guides and we recently collaborated on a trial surgery to test the product in the Middle East region for the first time.

Who was involved and what did you do?
We worked with a broad team of dental experts. The design of the guide and the planning of the operation was led by 2INGIS, a Belgium based company who holds many patents in this area. The operation was led by Dr. Ahmad Aljazairi with support from Dr. Islam Samy and Dr. Khaled Al-Ekram. The role of Sinterex was to metal 3D print and then finish the guide.

What was the outcome?
The patient had two missing teeth and one broken tooth. During the operation the broken tooth was removed, and three implants immediately placed. We checked the results after the operation using a CBCT and the implant placement was perfect, more importantly, the patient was happy. The patient had needed the operation for a while but was avoiding as he was worried about the procedure. The patient works as a microelectronic technician and is very technically minded, when he heard that a surgical guide would be used, his confidence in the procedure increased.

What lies ahead for Sinterex?
We are focusing now on expanding our customer base and bringing our products to new markets. In parallel we are also looking at some really cool new 3D printing technologies which we feel could be beneficial to our existing customers.
NEW: Update Sirona Connect Software 4.5

By Dentsply Sirona

The latest version of Sirona Connect SW 4.5 offers additional software and portal features, which expand and improve both the digital impression process in the practice, as well as the possibilities for choosing individual laboratory services during the Sirona Connect ordering process.

These include:

**General bug fixes and quality improvements**
- More detail in the image.
- More realistic visualization of the model.
- Less computer power needed.

**Shade Detection**
- The ‘Shade Detection’ feature allows you to analyze the shade of any tooth based on the Omnicam scan. This gives you objective support and more certainty when selecting the suitable restoration shade.

**Open Scan Export**
- Exporting scan data in STL format is possible for CEREC Omnicam intraoral scans. This means that the data from the digital impression can now also be used in software products from other manufacturers. This allows new options for the digitalization of your practice.

**Digital impressions of implants from Dentsply Sirona or third party implant systems**
- Integration of “MIS” TiBases and “Thommen” scan posts.
- Selecting “other Scanbody” during implant treatments.
- Separate image catalogue for scan posts and TiBases as well as other scanbodies.

**Create customized laboratory services in the Sirona Connect Portal**
- With the release of Sirona Connect SW 4.5, the Sirona Connect Portal offers labs the opportunity to create individual profiles and order information that are shown during admin phase and order phase in Sirona Connect SW 4.5.

**Simplified connection to Atlantis® via Sirona Connect Portal**

Sirona Connect SW 4.5 is a full version which is supported by CEREC Omnicam, CEREC Bluecam and Apollo DI.

We highly recommend that all users install Sirona Connect SW 4.5. For more details please check the Sirona Connect SW 4.5 manual or ask your CAD/CAM specialist.

**Calibra® Ceram Adhesive Resin Cement**

Mighty. Easy to Cleanup.

Calibra Ceram resin cement offers a wide tack cure window of up to 10 seconds and an extended 45-second gel phase*, giving you the time you need for a thorough and effective cleanup. It’s ideal for non-retentive preps when used with Prime&Bond active™ Adhesive and for all-ceramic restorations that require extra strength.

Contact your Dentsply Sirona representative to request a demo and see for yourself why Calibra Ceram Cement is a mighty good choice for restorations that need more strength.

* 10-second tack cure window equals five-second wave cure per surface. For excess cement cleanup, monowave output LED lights with a single peak output around 470nm are recommended. ML070013A (7-26-17)