CEREC News – April 2012

Contents:
- CEREC Basic Knowledge 4.0
- CEREC Guide – Fast and Affordable Surgical Guides
- inLab SW 4.0 – more possibilities and greater flexibility
- Digital impressions with Sirona Connect
- CEREC 3.9 Software
- Upcoming CEREC Events

CEREC Basic Knowledge 4.0 – A Clinical Guide

This web book in PDF format written by Dr Andreas Ender, Zurich University is the definitive guide to our CEREC SW 4.0. It is a very detailed step by step clinical guide including many screenshots and offers both new and experienced CEREC users invaluable insights and tips.

See for yourself and download this web book free of charge from the Sirona website at:

User Information
We are currently arranging to have this book translated into French, Spanish and Italian for download from the appropriate language website.

CEREC Guide – Fast and Affordable Surgical Guides

Despite the increased level of security a surgical guide offers, most dental implant surgeries are performed without using one. In the eyes of many implantologists, cases with a comparatively low level of complexity generally do not warrant the cost and delay in treatment involved with ordering a guide from a central manufacturer. What is missing is the possibility to quickly create a cost-effective guide in the dental lab or practice.

After SICAT CLASSICGUIDE and OPTIGUIDE, CEREC Guide is the third surgical guide option available to Sirona customers. This semi-automatic process enables the user to create a precise surgical guide for small or medium-sized cases within a matter of minutes.

Place the thermoplastic material in hot water >90° C until soft and pliable before applying to the patient model.
The reference body is then pressed down onto the implant site and the material left to harden through cooling. The reference body can face either to the buccal or lingual, allowing side-by-side placement. The thermoplastic and the reference body together are called the scan stent. This stent can be created chairside, in the practice lab, or by any technician.

The scan template is put into the patient’s mouth and clicks securely in place.

The patient is then X-rayed with a Sirona 3D unit with the scan stent in his or her mouth.
The implant planning is carried-out on the X-ray exposure. The white dots are from the reference body. Optional: GALILEOS Implant software can also take into account the prosthetic planning by importing the CEREC crown.

The implant planning data from the 3D X-ray software are now exported into the CEREC software.

The drilling body is then milled without any modifications by the user.
The reference body is taken out of the scan body and replaced by the milled drill body. This is now the surgical guide or drilling template.

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The finished surgical guide is placed in the patient’s mouth.

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**Required Materials**

**Curing Material**

For the creation of the scan stent, a curing material is required. At the time of market introduction, we recommend using Triad light-curing material or thermoplasts from TAK Systems or DMG Dental. A Sirona thermoplast material specialized for stent creation will follow at a later date.

**CEREC Guide Blocs**

For each implant to be placed, one reference body must be positioned in the scan stent. Reference bodies are available in 3 sizes (S, M and L) to adapt to the size of the site and are sold in packs of two with the appropriate blocks used to mill the drill body:

<table>
<thead>
<tr>
<th>Product</th>
<th>Contents</th>
<th>REF</th>
<th>Max. Drill-Ø</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEREC Guide Blocs S</td>
<td>2 Reference Bodies (S) 2 Blocks (S)</td>
<td>63 75 054</td>
<td>3.5 mm</td>
</tr>
<tr>
<td>CEREC Guide Blocs M</td>
<td>2 Reference Bodies (M) 2 Blocks (M)</td>
<td>63 75 062</td>
<td>4.3 mm</td>
</tr>
<tr>
<td>CEREC Guide Blocs L</td>
<td>2 Reference Bodies (L) 2 Blocks (L)</td>
<td>63 75 070</td>
<td>6 mm</td>
</tr>
</tbody>
</table>

These items are single-use, each package covers two implants.
Drill Key Sets
In order to adapt the size of the drill path provided by the drill body to the individual drill diameter, metal drill keys are needed.
At the time of market launch, keys are available to support all the leading guided surgical systems, with additional key sets to follow for other systems.

<table>
<thead>
<tr>
<th>Product</th>
<th>Supported System(s)</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sirona CEREC Guide Drill Key Set ST</td>
<td>Straumann Guided Kit</td>
<td>63 73 711</td>
</tr>
<tr>
<td>Sirona CEREC Guide Drill Key Set C</td>
<td>Camlog Guided Kit</td>
<td>63 73 729</td>
</tr>
</tbody>
</table>
| Sirona CEREC Guide Drill Key Set NB   | Branemark System ® Guided Surgery Kit
NobelReplace Straight ® Guided Surgery Kit
NobelReplace Tapered ® Guided Surgery Kit
NobelActive ® Guided Surgery Kit       | 63 73 943 |
| Sirona CEREC Guide Drill Key Set AT   | AstraTech Facilitate®                                        | 63 73 950 |
| Sirona CEREC Guide Drill Key Set B   | Biomet 3i Navigator®                                         | 63 73 968 |

Prices vary due to the number of drill keys included in each set. Each drill key set is multi-use and can be autoclave sterilized including the containing box.

Required Hardware
- CEREC MC XL or inLab MC XL
- GALILEOS or ORTHOPHOS XG 3D

Required Software
- CEREC SW 4.0.2
- GALILEOS Implant V1.9 with SP1

CAUTION: Without Service Pack 1, GALILEOS Implant V1.9 contains a critical error which can lead to incorrect tooth numbering. CEREC Guide requires GALILEOS Implant V1.9 with SP1 (or later)! A USB drive with service pack SP1 for GALILEOS Implant V1.9 is included in each drill key package, or the update can be downloaded from http://sicat.com.

inLab SW 4.0 – more possibilities and greater flexibility
CEREC users can easily expand the range of materials and indications of their CEREC systems with the inLab SW 4.0. In addition to the key features of the CEREC SW 4.0, e.g. new intuitive user interface, direct modification on the virtual tooth, biogeneric natural occlusions and multiple restorations, the inLab SW 4.0 provides dentists with the software platform to produce highly aesthetic crowns and bridges with exciting new materials including translucent zirconium oxide (inCoris TZI). Using this software, dentists can also quickly design and produce in-house customized abutments keeping more value in the practice. With the aid of a sintering oven such as the inFire HTC speed, practices can finish these restorations in times which were unthinkable only a short while ago.

We invite you here to take a look at some of the interesting features which the inLab SW 4.0 has to offer!
The sophisticated analyzing tools, alignment aids and visualization options help you to navigate your way through the design process and monitor the contacts, surfaces, cross-sections and distances.

Using the inLab SW 4.0 dentists can produce anatomically sized, non-veneered translucent zirconium oxide restorations. These can be milled on an MC XL milling unit and sintered in 90 minutes with the inFire HTC speed furnace.

Precise acquisition of the implant situation including additional information about the gingiva on a scannable plaster model with the aid of the CEREC AC and the inLab SW 4.0.
Angulated abutments can be designed in a few mouse clicks.

The crown and abutment can be designed simultaneously resulting in ideal placement of both components.

With the top-down design method, in one design step you create the full contour crown out of which the according abutment is created. Telescopic angle, shoulder depth and other parameters chosen are taken into consideration. Both components – crown and abutment – can be milled. The emergence profile can be customized with several tools and parameters, as for example individual placement pressure.

Sirona also provides TiBase sets and inCoris ZI meso blocs which can be milled on an MC XL unit and then sintered in an inFire HTC speed furnace.

TiBase sets consisting of an abutment screw, titanium base and scan body are compatible with most commonly used implant systems.
inCoris ZI meso: prefabricated zirconium oxide block with built-in anti-rotation lock. Available in two shades (F0.5 and F2) and sizes (S and L).

Digital impressions with Sirona Connect

The transmission of digital impressions via the Sirona Connect portal to the laboratory continues to be an important complement to the CEREC system. Sirona Connect, the new name for digital impressions with Sirona, now offers new features and greater convenience:

- The free of charge upgrade to CEREC Connect SW 4.1 enables users to scan and send multiple restorations in both jaws with only one transmission.*
- The reference tooth or the pre-op situation can be scanned and sent to the laboratory to be taken into consideration for the final restoration.*
- Upload of the digital impression starts as soon as you log in to the Sirona Connect portal thereby speeding up the entire process.
- The Sirona Connect Portal utilizes a new user interface and much of the CEREC SW 4.0 design.

* The laboratory needs inLab SW 4.0 to benefit from the new functionalities. CEREC Connect SW 4.1 is now available to download at www.sirona-connect.net.

CEREC 3.9 Software

A solution is now available which allows CEREC 3 acquisition units (“Redcam”) to be operated in combination with the CEREC SW 4.0: the impressions are acquired using the infrared camera (32 bit); the restoration is then designed with the aid of the CEREC 4.0 SW (64 bit)

For further information please contact your CEREC dealer.
Upcoming CEREC Events

CEREC 27 and a half
Las Vegas, USA
August 16–18, 2012
Join us for the most amazing event in dental for the last 2 and a half years at the Venetian in Las Vegas!

Sirona is pleased to invite you to attend the premier dental event as CEREC celebrates 27 and a half years of dental awesomeness. This milestone event will allow you the opportunity to advance your CEREC education and experience fabulous Las Vegas.

For registration and information please visit:

www.cerec27andahalf.com

20th CEREC Masterkurs / DGCZ – 20th Anniversary Congress
Berlin, Germany
September 20-22, 2012
Topics spanning the entire field of computerized dentistry.
Workshops to improve your daily clinical work.

An impressive list of experts that speaks for itself:
Arnetzl (Austria), Bindl (Switzerland), Fasbinder (USA), Frankenberger (Germany), Fritzche (Germany), Kordaß (Germany), Leo (Netherlands), Loos (Germany), Mehl (Switzerland), Mörmann (Switzerland), Neumann (Germany), Reich (Germany), Reiss (Germany), Ritter (Germany), Schenk (Germany), Schneider (Germany), Scheweppe (Germany), Werling (Germany), Wiedhahn (Germany), Worsée (Denmark) and many more.
All lectures will be translated into English simultaneously.
For registration and information please contact:
DDS GmbH / Karl-Marx-Straße 124 / D-12043 Berlin Germany / T +49 30 76764388 / F +49 30 76764386
/sekretariat@dgcz.org / www.dgcz.org

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