30 years of CEREC: Innovation brings more flexibility and efficiency

By Sirona

CEREC offers much more than restorations in a single patient visit. The latest available innovations make the system even more flexible in dental practices and open up new practice efficiencies in the areas of implantology and orthodontics.

With CEREC, Sirona is celebrating the anniversary of a technology that has significantly changed the dental practice and the patient experience. Sirona is still setting trends and new standards with CEREC in its 30th year. CEREC offers remarkable flexibility in the areas of hardware and software, unlocking new clinical possibilities and efficient workflows for the practice.

In addition to the proven CEREC AC cart version, two new acquisition versions are available: the CEREC AF flexible tabletop version and the CEREC AI which is integrated into the treatment center. Both new models use the market-leading CEREC Omnican powder-free color camera with its very small camera tip allowing for easy scanning even in the distal area.

CEREC Omnican for efficient workflows

The CEREC AF model consists of the CEREC Omnican with camera cradle and a PC with a 24” or 19” monitor. The camera can be easily removed from the cradle and be taken from one treatment room to another. Scanning and design processes can be performed in different rooms. If desired, the patient can even follow the design process on the included tablet. CEREC AF is also interesting for practices that already have one CEREC system and want to add more flexibility. Dentists can equip their practice with the AF components (camera, cradle, PC, and monitor) and use the already available CEREC Omnican from their CEREC AC.

CEREC AI allows dental practitioners to use the CEREC Omnican directly on the cradle. The system consists of a CEREC Omnican that is integrated into the TENEO treatment center by a separate support arm. This ensures that the CEREC Omnican is easily accessible even in the 12 o’clock position.

CEREC integrated implantology

With CEREC SW 4.4, Sirona is bringing a new simple and user-friendly software update to the market. The software also includes several new functions that further improve the workflow. As one of the new applications, the CEREC Guide 2 is the first surgical guide that can be produced chairside and cost-effectively right in the practice.

The highlight of the CEREC SW 4.4 is the unique biojaw technology which ensures that the CEREC Omnican is integrated into the TENEO treatment center, saving time and space and is suitable for the usual workflows.

The guide is designed based upon the ideal prosthetic and surgical positioning made possible by the patented combination of CEREC intra-oral digital impressions and Sirona’s 3D X-ray volume data. After the simple design, the guide is then milled from PMMA on one of the CEREC MC X or CEREC MC XL Premium Package milling units. The guide can be manufactured in less than one hour and requires no models or radiographic guides with reference bodies.

Further optimizations in CEREC SW 4.4 ensure even more accurate results throughout the design process. The new Bio- jaw algorithm uses the entire jaw algorithm uses the entire jaw impression and the CEREC integrated implantology proposal for each individual patient. The customized initial restoration is designed based upon the ideal prosthetic and surgical positioning made possible by the patented combination of CEREC intra-oral digital impressions and Sirona’s 3D X-ray volume data. After the simple design, the guide is then milled from PMMA on one of the CEREC MC X or CEREC MC XL Premium Package milling units. The guide can be manufactured in less than one hour and requires no models or radiographic guides with reference bodies.

With CEREC SW 4.4, Sirona is celebrating the anniversary of a technology that has significantly changed the dental practice and open up new practice efficiencies in the areas of implantology and orthodontics. The latest software uses improved algorithms that allow for even smoother surfaces and deeper fissures when grinding feldspathic, glass and silicate ceramics.

With the new extra fine grinding tools of the 4-motor CEREC MC XL Premium Package in particular, designs are milled with more detail and greater precision than ever before.

CEREC enters the field of Orthodontics

CEREC can now also be used for digital impressions for orthodontic indications, e.g., for treatment with transparent aligners. Thanks to the highly innovative guided scanning procedure introduced by the new software, precise full-arch digital impressions can be carried out reproducibly, quickly and easily and can therefore be delegated to staff. Following a reliable guided scan using the CEREC Omnican, the CEREC Ortho software creates a digital model of the entire arch. The data obtained can then be sent for planning the orthodontic treatment and manufacturing the required appliances. As a result, it is no longer necessary to create and send a physical model.

A cooperation agreement with Align Technology allows dentists to also use digital impressions for aligner therapy with Invisalign. The CEREC Ortho software provides a direct connection to the Align Doctor’s Site. The scan data can be stored in the existing customer portal. For patients and doctors this means treatment begins sooner.

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Fig. 1: CEREC AF integrates the CEREC Omnican directly into the TENEO treatment center – saves space and is suitable for the usual workflows.

Fig. 2: CEREC AF ensures maximum flexibility when using the CEREC Omnican as it can be taken from room to room. The design process is independent of scanning.

Fig. 3: The guided scanning process allows dental practitioners to take precise images of the entire jaw for orthodontic applications.

Fig. 4: The highlight of the CEREC SW 4.4 is the unique biojaw technology. The customized initial restoration proposal for each individual patient is so good that in most cases the restoration can be made straight away.
Planmeca Romexis®
– CAD/CAM work and CBCT data in one software

By Planmeca

The field of digital dentistry is rapidly evolving, with new dental technologies emerging as part of a more efficient and comprehensive workflow. Pairing Planmeca CAD/CAM solutions with X-ray units in the Planmeca ProMax® 3D family allows dental professionals to bring together a wide range of detailed information for treatment planning and diagnostic purposes. This seamless combination of CAD/CAM and CBCT technology presents new possibilities for an improved standard of care for patients—offering several high-quality specialist features, all available through one software interface.

Planmeca Romexis® is the only dental software platform in the world to combine all imaging and the complete CAD/CAM workflow. This powerful solution is at the heart of the Planmeca ecosystem, as it provides dental professionals with the ability to acquire more detailed data sets than ever before. Planmeca Romexis includes advanced tools for all specialties, such as implant planning and other restorative treatments. The software presents dental clinics with a superior way to improve their patient flow and enhance the level of care offered.

Seeing more than ever before
Bringing together CBCT data and CAD/CAM work provides a comprehensive level of clarity. Planmeca ProMax® 3D imaging units reveal intricate information on soft and hard tissue structures, including the mandibular nerve canal, while the Planmeca PlanScan® introral scanner captures precise data above the gum line. This combination of these data ensures a complete understanding of any case and makes 3D prosthetic designing quick, accurate and easy.

Clinics are able to operate more flexibly, as restorations can either be milled at a clinic with the Planmeca PlanMill® 40 milling unit, or easily sent to a dental lab in an open STL data format.

The rise of same-day dentistry
A more active role in the manufacturing of restorations opens up avenues for dental clinics to significantly increase their patient volume and grow their business. A streamlined digital workflow ensures the full utilisation of resources, leading to a more efficient treatment environment. Same-day dentistry is as beneficial for patients as it is for clinics; instead of two visits, patients can be treated in one hour— with no temporary crowns or physical dental models required.

Open architecture for maximised efficiency
Standardised data is the driving force behind many of the latest developments in digital dentistry, as it guarantees the interoperability of images and dental data across different hardware platforms—reducing costs, increasing predictability and enhancing patient safety.

Bringing Planmeca’s CBCT and CAD/CAM systems together through the Planmeca Romexis software platform makes effective chairside dentistry a reality and presents dentists with a streamlined opportunity to substantially grow their practice.
CEREC: Generating interest even in the waiting room

By Sirona

This fall Sirona’s CEREC system will be celebrating its 30th anniversary. Even so, there are still patients who have not yet heard about this advanced technology and the numerous advantages of its fully digitalized workflow. This is why Sirona is now offering CEREC dentists a complete package of informative and marketing material which highlights the advantages of the CEREC system.

The attractively designed material which is tailored to patient questions focuses on the advantages offered by CEREC: Rapid tooth restoration in one sitting without a temporary prosthesis, no annoying follow-up appointments and without the need to undergo the unpleasant procedure of creating an impression using impression material. The package includes posters, flyers and appointment cards. A special marketing highlight: The option of integrating a personalized microsite dedicated to CEREC. Furthermore, Sirona provides materials for dental practice websites (e.g., banners) as well as videos and presentations. This content can be integrated into practice websites or alternatively displayed on a screen in the waiting room.

Moreover, the decision for example in favor of an inlay is then reached more quickly, explains Wolfgang Lüder, a dentist in Rosenheim, Germany. “Lots of my patients refer to information that they got prior to treatment, for example from Internet research, which brought my site to their attention. The material on CEREC from Sirona is a great help in terms of providing initial information and also for acquiring new patients.”

Dentists who are interested in this package can order the informative material for their practice from specialist dealers. The digital data can also be downloaded from http://www.cerec.com. A personalized microsite can be registered at http://www.onlyonevisit.com/signup.

Fig. 1: The consultation process begins in the waiting room – Sirona now provides dentists with a complete package of informative material.

Fig. 2: In addition to printed materials, Sirona additionally gives CEREC dentists films, presentations and other content for use in the waiting room or on their own websites.

“Rapid tooth restoration in one sitting without a temporary prosthesis, no annoying follow-up appointments and without the need to undergo the unpleasant procedure of creating an impression using impression material.”

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