



Do it your way

# Digital Solutions with CEREC



[dentsplysirona.com/CEREC](https://dentsplysirona.com/CEREC)

THE DENTAL  
SOLUTIONS  
COMPANY™

 **Dentsply  
Sirona**



# CEREC Solutions

Be free to choose just what you need and discover your way of using CEREC. For more than 30 years, CEREC has been synonymous with the creation of restorations in a single visit. We have continuously developed and improved CEREC to meet your requirements and satisfy your patients' demands. Today its capabilities extend far beyond single restorations. The CEREC solution spectrum covers three key areas: restorative, implantology and orthodontics, both for chairside and clinic-to-laboratory workflows - giving you the ideal set-up for the future.



## Restorative

- Excellent initial patient-specific design proposals through analysis of the complete scan thanks to the unique "Biojaw" function
- Intuitive use of the CEREC software
- Broad variety of materials
- Excellent milling and grinding results
- Direct clinic-to-laboratory commissioning

## Implantology

- Chairside implantology with custom abutments or screw-retained crowns with CEREC Zirconia meso block in one visit.
- Implants with the cost-effective CEREC Guide 2, the fastest surgical guide on the market
- Time-saving implant planning thanks to mySimplant
- Atlantis abutments and crowns produced by Dentsply Sirona

## Orthodontics

- Faster aligner treatment plan
- Digital storage and on-demand model production on 3D printers
- Reliable digital impressions with a small powder-free camera
- Integrated model analysis tools



# CEREC Solutions for different workflows



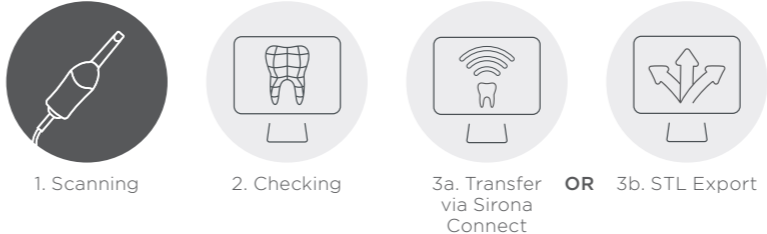
## Restorative Chairside

See pages 06 | 07



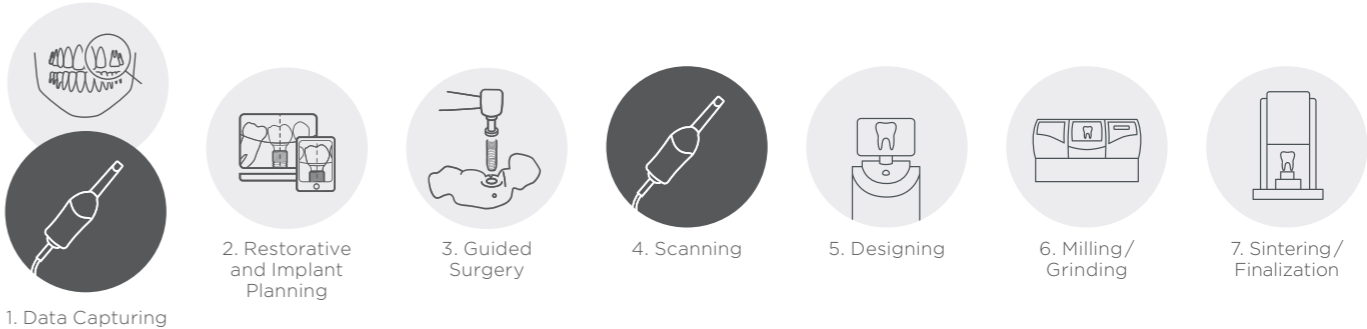
## Restorative Clinic-to-Laboratory

See pages 08 | 09



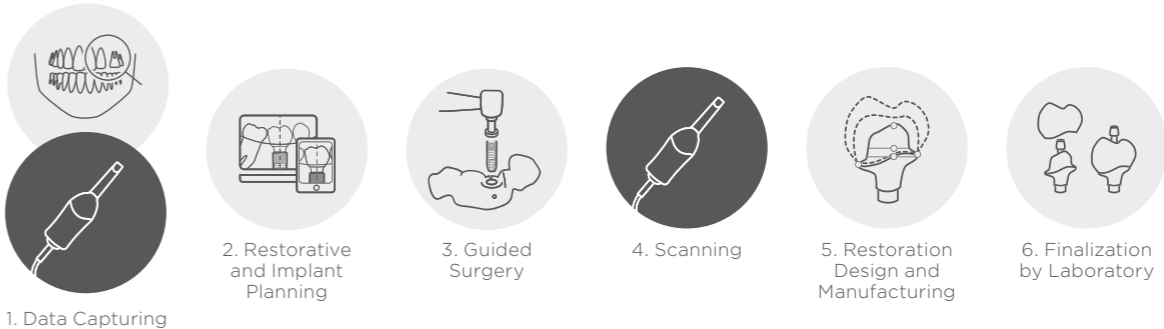
## Implantology Chairside

See pages 10 | 11



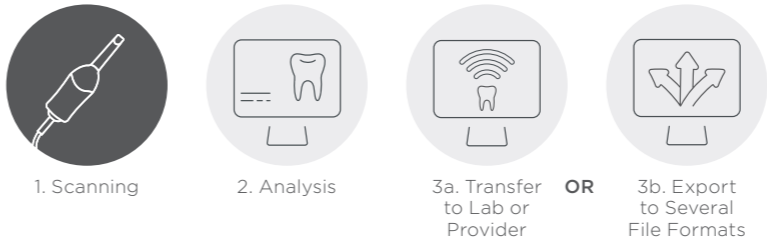
## Implantology Clinic-to-Laboratory

See pages 12 | 13



## Orthodontics

See pages 14 | 15



# Restorative Chairside

## Final restorations in a single visit

With the full CEREC system, you have complete control over your practice workflows. High-performance materials meet high-precision equipment to make single-visit-dentistry with excellent aesthetics and precise restorations possible.



- Highly aesthetic restorations in a single visit
- Excellent initial design proposals thanks to the unique “Biojaw” function
- Easy and intuitive software
- Wide range of materials for anterior and posterior solutions



### 1 Scanning

Save your patients from the discomfort of a conventional impression tray. Take digital impressions with CEREC Omnicam, our small powder-free color camera. The precise 3D images in natural color make scanning easier, more intuitive and more ergonomic than ever before.



### 2 Designing

CEREC software generates outstanding restoration proposals based on the unique “Biojaw” function. This saves you time and offers you the final design of your restoration as quickly as possible. You benefit from the simple, clearly structured and intuitive user interface.



### 3 Milling/Grinding

The CEREC grinding and milling unit and CEREC software are completely synchronized. The grinding/milling process for your designed restorations is extremely precise, creating smooth surfaces and margins as well as very fine fissures no matter which material you choose.



### 4 Sintering/Finalization

Full contour zirconia restorations can be sintered and glazed in your practice in the compact CEREC SpeedFire furnace. The induction technology offers the shortest sintering and firing times with very intuitive and simple use. In addition to zirconia, all other kinds of glass ceramics can be processed in the CEREC SpeedFire.

[dentsplysirona.com/zirconia](https://dentsplysirona.com/zirconia) -

The complete CEREC Zirconia workflow in a video - watch it now and see for yourself how easy it is.



# Restorative Clinic-to-Laboratory

## The freedom to work with the laboratory of your choice

As a leading technology provider in the field of digital impressions, Dentsply Sirona offers the most widely installed intraoral scanner on the market: the CEREC Omnicam. Sirona Connect is the digital connection for dental laboratories – for flexible treatment strategies to handle challenging and complex indications. Sirona Connect allows a simple and secure clinic-to-laboratory connection. You can also create an STL export for your choice of laboratory. With our Digital Design service, you can send your intraoral data set via Sirona Connect Portal to any laboratory using the Dentsply Sirona inLab software, and then get the needed design data back for finalization in your practice. A digital service that rewards dental know-how and supports you the right way.



### 1 Scanning

The preparation, antagonist and bite situation in the patient's mouth are quickly and precisely recorded. The camera head is moved smoothly and closely over the teeth being scanned and the 3D color model is successively depicted on the screen. The scanning process can be interrupted and resumed at any time.

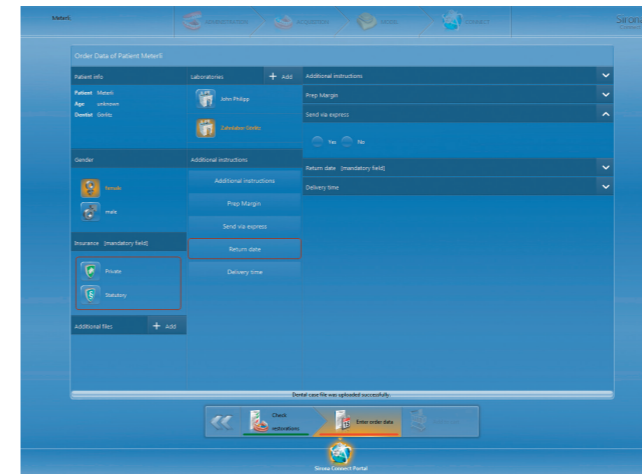


### 2 Checking

The Sirona Connect software controls intraoral acquisition and then calculates the virtual 3D model in seconds. You can define the preparation line yourself or delegate this task to a dental laboratory.

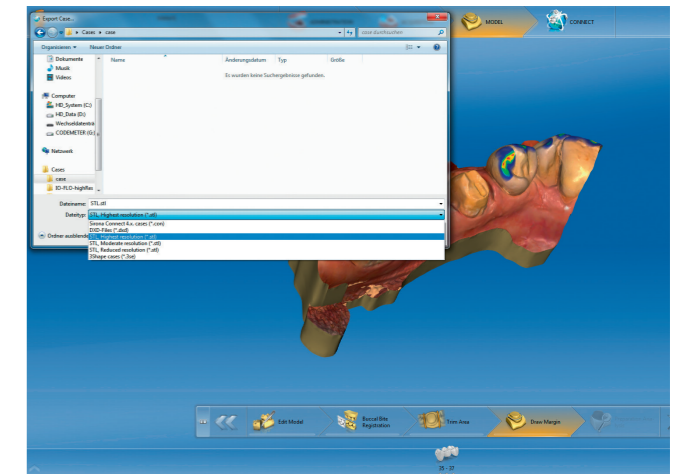


- Fast and accurate scans
- Digital solutions from single crowns to long-span bridges
- Easy and convenient data export via Sirona Connect Portal
- Open STL Export available



### 3a Transfer via Sirona Connect

The 3D model is uploaded to the Sirona Connect Portal in seconds. Select your preferred dental laboratory using inLab Software and the order data is transmitted securely.



### OR 3b STL Export

Export STL files of the 3D model directly from the software and send them to a dental laboratory of your choice.

# Implantology Chairside

## Place implants safely and precisely – in just a single visit

CEREC is also part of the safe and individual chairside implantology solution from Dentsply Sirona. That means CEREC not only enables you to create customized implant prosthetics, but also helps you plan the surgery and insert the implant. The prosthetic situation can be taken into account already when planning the implant. This prosthetic-oriented planning ensures the implant being properly positioned with the inhouse surgical guide CEREC Guide 2.

For the prosthetic part, CEREC allows users to work with a wide range of materials and is compatible with many different implant systems. The result is customized abutments and crowns made of the highest-quality materials. With the introduction of CEREC Zirconia meso, you can also quickly treat the implant with a screw-retained crown on CEREC TiBases, demonstrating the highest degree of gingival biocompatibility.



### 1 Data Capturing

In the first step, all of the necessary images for planning are prepared: an intraoral impression to get information about the soft tissue and create a prosthetic proposal and 3D X-ray images. Both data sets are needed for precise, prosthetic-oriented implant planning.

The newly placed implant can immediately be scanned after placement. Then implant prosthetics are designed with the CEREC Software in very few steps, milled with an appropriate CEREC milling unit and sintered with the CEREC SpeedFire, the smallest and fastest sintering furnace. To learn more about the prosthetic steps, see pages 6 and 7.

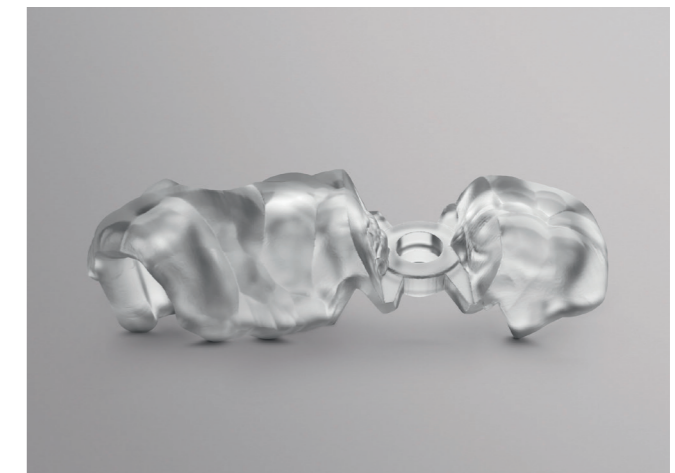
[dentsplysirona.com/implantology](https://dentsplysirona.com/implantology) – Chairside implantology with CEREC.

- Improved clinical safety due to prosthetic-oriented implant planning and guided surgery
- Individual prosthetics with customized abutment and crown or screw-retained crown
- Fewer treatment sessions due to the possibility of implant treatment right after the surgery



### 2 Planning

The Galileos Implant Software then aligns the prosthetic proposal and the X-ray data. With this the implant is planned and the surgical guide CEREC Guide 2 is produced in less than one hour using an appropriate CEREC milling unit.

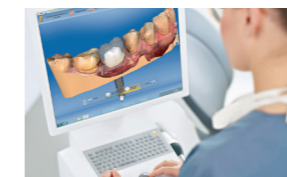


### 3 Placing

The implant is safely placed using CEREC Guide 2. Dentsply Sirona provides the fastest produced surgical guide in the world in a very cost effective way.



### 4 Scanning



### 5 Designing



### 6 Milling/Grinding



### 7 Sintering/Finalizing

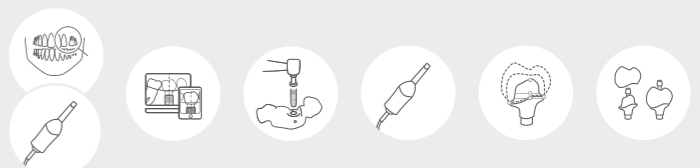


# Implantology

## Clinic-to-Laboratory

### Your solution to team up with the best partners

CEREC also offers a convenient solution when you want to collaborate with well-established partners. Throughout all steps of the workflow we offer the choice to benefit from the know-how and experience from our centralized functions. This ensures a time-saving solution without investing into additional software or equipment. The following workflow shows one example of how to work with your partners. In the field of clinic-to-laboratory implantology there are many more options.

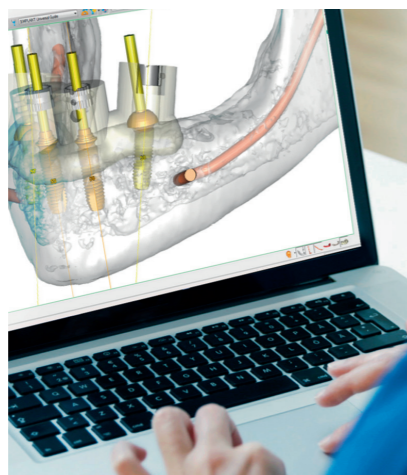


- Solutions that give you accurate, fast and predictable results
- Access to state-of-the-art design and manufacturing technology
- Collaborate with a network of professionals



#### 1 Data Capturing

See more with a CBCT image that visualizes and gives information about the patient's anatomical situation. With the intraoral CEREC Omnicam scanner, you can capture the patient's dentition and surrounding soft tissues. The combination of bone situation and soft tissue information are the optimal basis for ideal restorative and implant planning.



#### 2 Restorative and Implant planning

mySimplant planning service is the outsourced way to receive a plan of the implant surgery without the need to purchase a planning software. CBCT data, intraoral scan data and clinician-made case specifications are sent to Dentsply Sirona to prepare a Simplant treatment plan. When the planning proposal has been designed, it is sent back to the dentist for validation and approval.



#### 3 Guided surgery

When the Simplant treatment plan has been approved, the Simplant Guide is produced by Dentsply Sirona using a state-of-the-art manufacturing process to ensure the highest precision and quality each and every time. Using a surgical guide ensures precise implant placement and sets the path for safe and accurate treatment. Together with the surgery kit, guided surgery drills and the Simplant Guide, the implant can be placed according to the treatment plan.



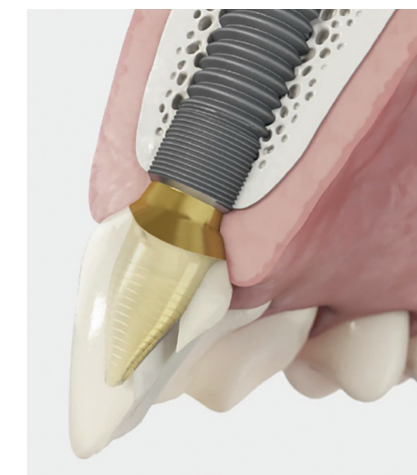
#### 4 Digital Impression

Right after the implant is placed within the surgery, take a simple and accurate digital impression in natural color. With the small, easy-to-handle CEREC Omnicam, impression taking is more pleasant and time-saving than ever before.



#### 5 Restorative design and manufacturing

The order is initiated by the dentist directly in Sirona Connect and sent to Dentsply Sirona central production for Atlantis solutions. A design proposal is sent to the dentist and dental technician to review, discuss and approve. Atlantis abutments, crowns or digital files are available for both cement and screw-retained restorations. The crown can also be finalized using Atlantis Core File and inLab software.



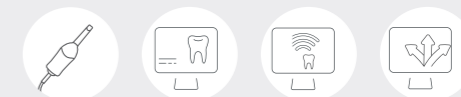
#### 6 Final restoration

Atlantis abutments and crowns are produced by Dentsply Sirona using a state-of-the-art milling process. The design of Atlantis patient-specific solutions is based on the anatomy and clinical situation of each patient, truly mimicking natural tooth function and appearance. The crown can also be milled using inLab milling machine and sintered using inFire HTC speed.

# Orthodontics

## Your access to orthodontic treatment

With CEREC, your treatment range can be extended to include orthodontic applications. With its many treatment options, the CEREC Ortho software makes it easy to get started. Practitioners focusing on orthodontics can also make use of advanced tools such as the integrated model analysis system. Once the treatment planning is complete, you can export or send the case with a single click. Specially-tailored interfaces make it easy to transfer the data directly from the CEREC Ortho software.



- Add orthodontic applications to your range of treatments
- The guided scanning procedure is easy to learn and ensures reproducible results
- Large variety of export options including Invisalign clear aligner treatment



### 1 Scanning

Guided scanning makes the procedure easy to learn, offering 100% reproducible results regardless who is scanning. Ergonomic handling with the small, powder-free CEREC Omnicam color camera means your patient won't need the conventional impression.



### 2 Analysis

Direct evaluation of the case with the integrated model analysis is a part of the scanning appointment, saving you and your patient time. This makes manual model analysis with plaster models and calipers obsolete.

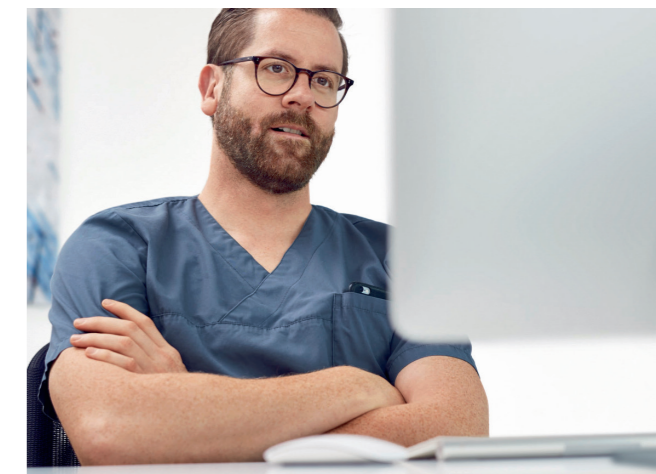


### 3a Transfer via Sirona Connect

Data transfer to laboratories or external service providers for a wide range of appliances such as clear aligners, bonding trays, retainers and many more.

### OR 3b STL Export

Export STL files for 3D printing of physical models or export files for treatment planning and appliance design in external software products like OnyxCeph 3D, and more.



Submit your cases to over 2,000 active dental laboratories with Sirona Connect or use the tailored interfaces of the CEREC Ortho software to send them directly to one of our partners.

[dentsplysirona.com/orthodontics](https://dentsplysirona.com/orthodontics) - Simple and fast - digital orthodontics with CEREC.

MTM® Clear•Aligner

Ideal Smile® ALIGNER  
—FOR MINOR TOOTH MOVEMENT—

invisalign

CA  
DIGITAL

SICAT  
A Dentsply Sirona Company

Dolphin  
Imaging & Management Solutions  
A Patterson Technology

OnyxCeph<sup>3D</sup>

ClearCorrect



# CEREC Omnicam

Save your patients from the discomfort of a conventional impression tray. Take digital impressions using the CEREC Omnicam, our small powder-free color camera. It's available in three different versions: the proven mobile CEREC AC cart version, the flexible table-top CEREC AF, and the integrated, ergonomic CEREC AI. You can choose depending on the workflow in your practice and available space.

## Easy handling

Thanks to its slim design, the small camera head and a light weight of just 313 grams.

## Powder-free impressions

Coating-free scanning reduces the learning curve and increases patient comfort.

## In color

The colored scan ensures a natural-looking digital model.



"... I want a treatment to be as pleasant as possible. Without an impression tray and with fewer injections. I'm willing to pay more for that."

Robert Heller, patient

[dentsplysirona.com/omnicam](https://dentsplysirona.com/omnicam) - Experience the simplicity of scanning.





# CEREC Software

After analyzing the complete scan, the CEREC software generates outstanding restoration proposals. This saves time and allows you to move to the production step more quickly. You benefit from the simple, clearly-structured and visually-appealing user interface.

## Outstanding restoration proposals

The true highlight of the CEREC software is the unique "Biojaw" function. Based on the intraoral scan, the software generates a patient-specific restoration proposal taking into account the existing dental morphology. That offers outstanding long-lasting results in just a few minutes.

## Ease of use

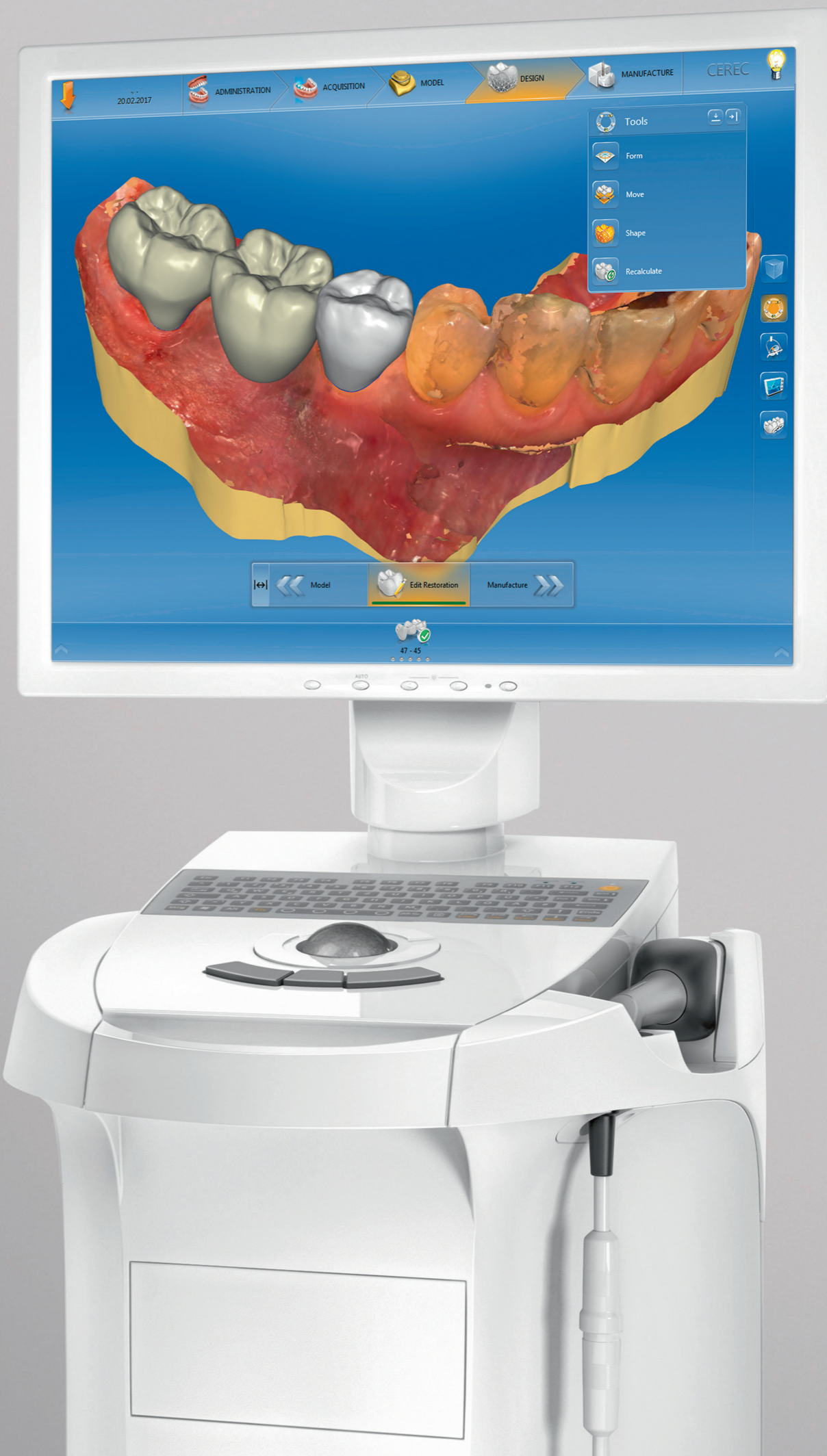
The clearly structured menu in the intuitive user interface and outstanding automation helps to ensure that CEREC software is truly user-friendly.



"... The initial proposal of the CEREC software is usually so good that I can go straight to production without any further adjustments."

Dr. Peter Schneider, Heidelberg, Germany

[dentsplysirona.com/software](https://dentsplysirona.com/software) - Dr. Peter Schneider talks about his experience with the CEREC Software.





# CEREC Milling Units

## CEREC MC, CEREC MC X and CEREC MC XL Premium Package

The CEREC grinding and milling units and CEREC software are optimally synchronized with one another to achieve outstanding, long-lasting results in just minutes. The machining of the restoration design is extremely precise, the surfaces and margins are smooth, and the fissures are very detailed. Our milling and grinding units can also dry mill, which makes single visit, full-contour zirconia restorations even faster.

### Precise

Optimal machining strategies and the finest tools replicate the smallest details of the designed restoration.

### Versatile

Every material requires individual processing. Wet grinding, wet or dry milling – CEREC always has the optimal solution.

### Fast

Depending on the application, material and processing option, the CEREC milling unit can manufacture a typical single-tooth restoration in 4-12 minutes.



"Treatment often used to take a long time. With CEREC, I got a complete crown in just one visit – no temporary or follow-up visit. I call that service!"

Meike Tramitz, patient



[dentsplysirona.com/production](https://dentsplysirona.com/production) – We captured the fascination of “dry milling” in a video. Have a look!



# CEREC SpeedFire

CEREC SpeedFire is the smallest and fastest sintering furnace on the market and can typically sinter a crown in 10–15 minutes. That means that the advantages of full-contour zirconia can be used in chairside treatment. If needed, a glaze can be applied with the CEREC SpeedGlaze that can be fired in just a few minutes in the CEREC SpeedFire. Then the restoration is ready to be set.

## Jobs sent automatically

The CEREC software sends the firing job with all the necessary information to the furnace.

## Induction technology

... allows for the shortest sintering and firing times.

## Just 10–15 minutes

... to sinter a full-contour zirconia crown.



### CEREC SpeedGlaze

Spray the sintered restoration evenly with the CEREC SpeedGlaze. The subsequent glaze firing gives a high gloss finish to the restoration.

[dentsplysirona.com/speedfire](https://dentsplysirona.com/speedfire) - Watch the CEREC SpeedFire in action.

“CEREC SpeedFire is the only dental furnace you need. It can sinter, glaze and crystallize all your materials.”



### Induction technology

Unparalleled short sintering and firing times.

### LED status indicator

Different colors indicate the current status of the process.

### Chamber

Space for up to three crowns or one 3-unit bridge

### Touch screen

Intuitive operation and high resolution.

### Intelligent network

The CEREC Software sends the order with all the necessary information to the furnace.



reddot award 2016 winner



# CAD/CAM Materials

## Solutions for optimized workflows

CEREC guarantees the economical and precise production of clinically sound and aesthetically high-end prosthetics for your practice. With a validated process for all materials, CEREC works with a wide range of material types and renowned brands.

In addition to our certified material partners, Dentsply Sirona offers a complete suite of restorative CAD/CAM product essentials you need to ensure optimal outcomes, designed with workflow optimization in mind, and all in an effort to ensure better, safer and faster dentistry. Each component in the CEREC process was developed to complement, strengthen and enhance the working properties of one another. This streamlines your workflows, saves time and ultimately results in more consistent and predictable results.

### Celtra® Duo



With CEREC, you can process Celtra® Duo Zirconia-Reinforced Lithium Silicate (ZLS) Block quickly and easily. A unique ultra-fine microstructure gives you the option to process Celtra Duo (ZLS) in your choice of two ways: Mill and Polish, or Mill and Fire. No other block provides this degree of workflow freedom and flexibility.

### CEREC Zirconia



The high strength of CEREC Zirconia benefits both dentist and patient. Restorative treatment is even possible in areas with limited space. Preparations preserve tooth substance and can be cemented conventionally when fitted.



Developed to make a difference at each step in the restorative process, Celtra Duo (ZLS) Blocks, Prime&Bond elect Universal Dental Adhesive\* and Calibra Ceram Adhesive Resin Cement when used as a system, result in a remarkably strong and long-lasting bond you can rely on.



Designed to perform better together, Calibra Universal Self-Adhesive Resin Cement is simple and easy to use with CEREC Zirconia restorations. There's no need to prepare enamel or dentin with an etchant or bonding agent - simply apply Calibra Universal to the restoration and it's ready to seat.

\* Depending on the market the Dentsply Sirona Prime&Bond Adhesive version available may vary.



[dentsplysirona.com/CEREC-materials](https://dentsplysirona.com/CEREC-materials)

Learn more about the full variety of CEREC materials here.



# CEREC Club

With the three-year packages, you benefit from the latest software updates and upgrades, as well as from exclusive spare part warranties and maintenance kits over the entire service life of your system. You can also integrate optional products and services at discounted prices when needed.



<p><b>Innovation guarantee</b></p> <hr/> <p>CEREC and CEREC Premium software updates and upgrades*</p>	<p><b>Investment security</b></p> <hr/> <p>Extended spare parts warranty, maintenance kits and PC upgrade</p>	<p><b>Top value for money</b></p> <hr/> <p>Comprehensive service over the entire service life of your CEREC system</p>
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With the CEREC Club, you're always one step ahead. You can constantly benefit from the latest CEREC innovations, secure your system completely and continue to develop it with ease. Your investment is automatically kept up to date.

"I have very high demands of my equipment, which also means keeping my software fully up to date. With CEREC Club, I can be sure of precisely that."

Dr. Matthias Engeln, Hamburg, Germany

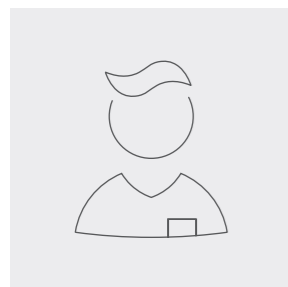
\*The license for CEREC Premium software is dependent on the system's milling unit type.





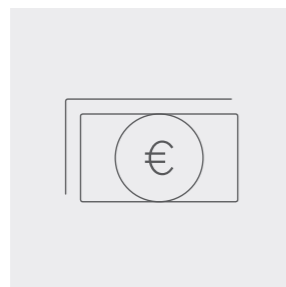
# CEREC for you and your patients

What would you think about providing your patients with a crown in a single visit instead of two? What would your patients think about it? We know – they would love it! Patients benefit from the faster, more comfortable treatment with no impression tray, no temporary and only one anesthetic injection. Offer your patients the best modern treatment – with CEREC!



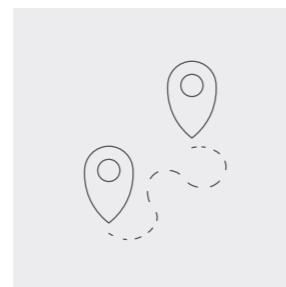
## Two thirds

of patients would change their dentist in order to receive a single-visit dentistry treatment.\*



## 50 %

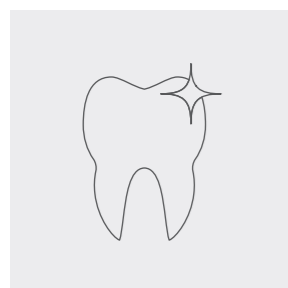
percent of patients would be willing to pay more for single-visit dentistry.\*



## Two thirds

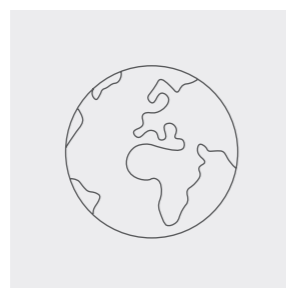
of patients would travel further for single-visit dentistry.\*

Imagine that you could now offer your patients restorations in a single visit – with all conventional materials. And that you could also offer implantology and orthodontic treatment. What opportunities would that open up for your practice? Efficiency, greater added value and safety: CEREC makes all this happen.



## 95 %

proven long-term stability.\*\*



## Every second

a CEREC restoration is placed somewhere in the world.



## > 250

scientific studies have proven the clinical safety of CEREC.



\* Source: Exevia GmbH dental patient survey, November 2015

\*\* Source: Posselt, Kerschbaum, Longevity of 2328 chairside CEREC Inlays and Onlays, Int J Comput Dent. (2003)

# CEREC Product Family

## 1 Scanning/Designing\*



### CEREC AC – The mobile cart version

CEREC AC with Omnicam is comprised of a camera system, PC and monitor in a compact acquisition center on 4 wheels for digital impressions. You can scan and design centrally with the CEREC AC.



### CEREC AF – The flexible tabletop unit

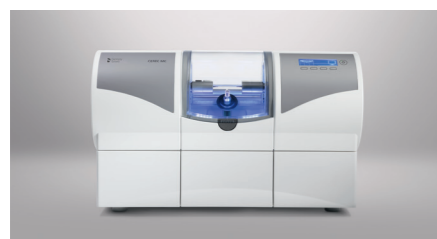
CEREC AF comprises the individual components of CEREC Omnicam including a camera tray and PC monitor. You can choose a 19" or 24" screen or use the one from your own practice. The camera can be easily taken from one treatment room to another.



### CEREC AI – the integrated, ergonomic version

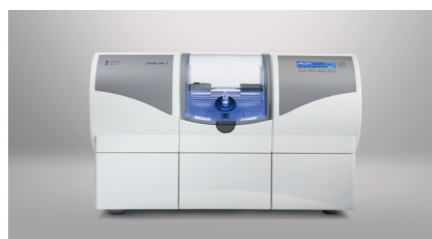
For many CEREC users, CEREC treatment is a fixed part of the daily workflow. With the CEREC AI, Dentsply Sirona offers a suitable solution: It consists of a CEREC Omnicam with a tray that is integrated into the Teneo treatment center by means of a separate support arm and PC with screen.

## 2 Grinding/Milling



### CEREC MC

- Full-contour single-tooth restorations up to 20 mm block size
- Precise
- Cost-effective solution



### CEREC MC X

- Entire range of chairside applications up to 40 mm block size, including bridges and abutments
- Precise and fast
- Optional upgrade with the CEREC Premium software
- CEREC Guide 2 surgical guides



### CEREC MC XL Premium Package

- Complete spectrum of all chairside plus many labside indications with block sizes up to 85 mm
- Grinding/milling of all CEREC and CEREC Premium applications and materials
- Precise and fast
- Convenient: four motors and a user-friendly touchscreen
- CEREC Guide 2 surgical guides
- Optional "extra-fine" grinding

## 3 Sintering/Finalization



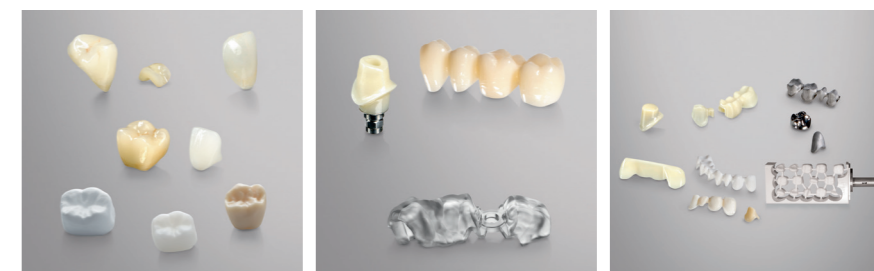
### CEREC SpeedFire\*\*

- Speed sintering of full contour zirconia: The extremely fast processes make a single-visit treatment possible
- Speed + Pre-Dry: Wet-milled restorations can be made in one process
- Maximum sintering temperature: 1600°C
- Speed Glaze process: Fastest glazing process in < 9 minutes
- Maximum warm-up speed 300°C/min: No preheating or holding temperatures needed
- Active cooling: Shortens waiting time by active cooling
- Interfaces: 2x USB 2.0, 1x LAN (RJ45), WLAN (optional via WLAN USB dongle)

# Your production options with CEREC

Performance Features	CEREC MC	CEREC MC X	CEREC MC XL Premium Package
Indication	Full-contour single-tooth restorations	Complete chairside spectrum	Complete chairside spectrum and many labside indications
Milling accuracy	± 25 µm	± 25 µm	± 25 µm
Maximum block size	15.5 mm x 19 mm x 20 mm	15.5 mm x 19 mm x 40 mm	22 mm x 40 mm x 85 mm
Touch display	-	-	■
Four spindle motors	-	-	■
<b>CEREC SW 4.5</b>	■	■	■
Fully anatomic single-tooth restorations (feldspathic, glass, and lithium disilicate ceramic, zirconia, hybrid ceramic, mono-sized polymer blocks)	■ For processing full contour zirconia in a single visit, you need the CEREC SpeedFire furnace	■ For processing full contour zirconia in a single visit, you need the CEREC SpeedFire furnace	■ For processing full contour zirconia in a single visit, you need the CEREC SpeedFire furnace
Bridges up to four units	-	■	■
Abutments/screw-retained crowns	-	■	■
CEREC Guide surgical guides	-	■	■
<b>CEREC Premium SW 4.5</b>	□	□	■
Copings, frameworks, anatomical connectors, telescopes, abutment bridges, nesting and stacking (CEREC Premium CAM SW)	-	□	■
Sinter metal	-	□	■
Frameworks up to twelve units	-	-	■

■ Available □ Optional



## CEREC certified material partners



\* All three options are also available as CEREC Connect versions, for easy and convenient data export via Sirona Connect portal.  
 \*\* The figures refer to processing times of CEREC Zirconia and depend on the sintered volume and color.



## Dentsply Sirona

Sirona Dental Systems GmbH  
Fabrikstraße 31, 64625 Bensheim, Germany  
[dentsplysirona.com](http://dentsplysirona.com)

## Procedural Solutions

Preventive  
Restorative  
Orthodontics  
Endodontics  
Implants  
Prosthetics

## Enabling Technologies

CAD/CAM  
Imaging  
Treatment Centers  
Instruments