infident fabricates ten-unit bridge framework materials

With the help of the initial MC XL milling machine, dental technicians are now in a position to create streamlining bridge frameworks up to a maximum anatomical length of 60 mm. The new MC XL milling machine reaches a limit of 40 mm. If a larger framework is required, the dental technician can use the design data to inf´dent CAD/CAM to take care of production. Frameworks made of MC XL can be used for all types of complex frameworks.

The additional dental technicians have immediate access to new ceramic stock and frameworks.

Holes are prepared in the area of the framework.

The new MC XL milling head is a high-tech unit that can be used for both large- and small-scale frameworks. In addition, dental technicians have immediate access to a new ceramic stock and frameworks.

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The new CEREC 3D software: biogenic and easy to use

**Biogenic tooth model**

![Image showing the new screen design for intuitive handling](image)

**NEW APPLICATION.** The first step in the biogenic tooth model is the generation of the CEREC 3D V 3.01: new screen design for intuitive handling.

**Biogenic tooth morphology** is extremely diverse, due not only to genetic factors but also to daily wear and tear. This diversity is reflected in the inlays and onlays surfaces. In most cases it is not possible to achieve the same inlay surfaces in such a way that they exactly correspond to their natural equivalents. Of course, however, many dentists and residents regularly work with inlay surfaces. Therefore those warping-up routines have been adapted to the individual morphologies. Thus the user is allowed to know how to apply the specific situation. By definition all these computer-aided approaches aim at computing the occlusal surfaces and reconstructing the tooth in its original form resulting in failure. To solve this problem Professor Albert Mohl and Professor Volker Blaetz have developed a software tool for inlay and onlay which is capable of calculating the entire occlusal surface from the residual substance of the prepared tooth. To this end the computer has several thousand natural tooth shapes. It is possible to load this database. To this end the software delivers perfect results. This information was transferred from the database of the biogeneric reconstruction of the biogenous tooth. Modifications and additions are possible in the CEREC system. For example, the database can be extended by natural teeth, Professors Mohl and Blaetz. This procedure is called “biogenous tooth model”.

**NEW MATERIALS.** To keep the diversity of 3D Master. The new blocks are perfectly suited to the new Sirona IPS e.max CAD LT blocks. The advantage is an increase of approximately 50% compared with CEREC and inLab. This is of particular importance in the production of bridges in dental lab. It also applies to partial crowns. Among the specific activities for dentists – e.g. for full crowns – the computer is of major importance. Longerner diamond bars For the larger-sized restorations the Neolux XL deplois a 20 mm chip bar. This eliminates the need for water to be used, which makes the Neolux XL a perfect tool for steeply inclined abutment crowns.

**Service life and reliability**

The new milling units are tailored to the CEREC 3D V 3.01. They feature the latest developments of the leading manufacturers of laboratory equipment. The new MC XL machines are the ideal choice for the reproduction of all 3D Master crowns. The users can avoid wear of the milling head and have a very simple access to the milling machine. The new MC XL milling machine is the perfect choice for the use of the Medium opacity blocks. The milling times have been reduced significantly.

**Easy to use**

The new second set of menus also has been adapted to the new MC XL milling machine. This new set can be equipped with different diamond bars for other types of ceramic blocks. Hence the user has to make a few mouse points manually.

**No compromises**

**APPLICATION.** The new version of CEREC 3D creates the occlusal surfaces of inlays and onlays in an entirely new way. The revised user interface of the software has been adapted to the new MC XL milling machine. The program now works with two simple, single mouse operations. The entire software functions at any time by means of a double click.

**Bioceramic materials**

CEREC 3D V 3.01: new screen design for intuitive handling. Cut-out from the database of the biogenetic reconstruction of the natural tooth morphology is extremely diverse, due not only to genetic factors but also to daily wear and tear. This diversity is reflected in the inlays and onlays surfaces. In most cases it is not possible to achieve the same inlay surfaces in such a way that they exactly correspond to their natural equivalents. Of course, however, many dentists and residents regularly work with inlay surfaces. Therefore those warping-up routines have been adapted to the individual morphologies. Thus the user is allowed to know how to apply the specific situation. By definition all these computer-aided approaches aim at computing the occlusal surfaces and reconstructing the tooth in its original form resulting in failure. To solve this problem Professor Albert Mohl and Professor Volker Blaetz have developed a software tool for inlay and onlay which is capable of calculating the entire occlusal surface from the residual substance of the prepared tooth. To this end the computer has several thousand natural tooth shapes. It is possible to load this database. To this end the software delivers perfect results. This information was transferred from the database of the biogeneric reconstruction of the biogenous tooth. Modifications and additions are possible in the CEREC system. For example, the database can be extended by natural teeth, Professors Mohl and Blaetz. This procedure is called “biogenous tooth model”.

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New CEREC 3D products launched

CEREC has witnessed the market for Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) technology for the dental industry soar in the past few years, with new CEREC MX XL milling machines. The first new innovation to be unveiled at the International Meeting of the European Society for Computer Aided Orthodontics (ESCAO) was the new “Digital Impression” technology at the Museum of Modern Art in New York. At the same time, the new CEREC MX XL milling machines were also unveiled.

Silverado Paper

Why choose Sirona's CEREC Blocs?

NEW APPLICATION. Sirona's new addition to the CEREC product range is a completely new concept in dental restorations. It is based on the introduction of CEREC’s next generation in Computer Aided Design (CAD) and Computer Aided Manufacturing (CAM) technology for the dental industry.

Sirona's new technology for the dental industry

Sirona has recently announced the launch of a new computer-aided design (CAD) and computer-aided manufacturing (CAM) system for dental restorations. This system is called CEREC 3D, and it is designed to improve the accuracy and efficiency of dental restorations. CEREC 3D uses advanced computer technology to create a digital model of the patient's teeth, which is then used to fabricate a custom-made dental restoration. This technology has been shown to be faster and more accurate than traditional methods of dental restoration, and it is now being used by dental professionals around the world.

MATERIAL. Sirona's new CEREC Blocs are made from high-quality ceramic materials, which are known for their strength and durability. These materials are also highly esthetic, which makes them ideal for use in cosmetic dentistry. In addition, the new CEREC Blocs are compatible with a wide range of other dental materials, which makes them a versatile option for dental professionals.

Web portal offers closer collaboration between CEREC users and inLab laboratories

Sirona has introduced a new web portal that offers closer collaboration between CEREC users and inLab laboratories. This allows CEREC users to easily share and access the latest technology and information from their inLab laboratory. This can help improve overall productivity, efficiency, and patient satisfaction.

New CEREC 3D made bridges

NEW APPLICATION. The first step in the CEREC 3D application is to create a digital impression of the patient's teeth using the new VITA CAD-Temp material. Once the digital impression is taken, the software automatically generates the design data and optical images for the restoration. This design data can then be used to create the final restoration using the CEREC milling machine.

Bridges are one of the few areas of a patient's mouth that cannot be treated with conventional dental restorations. They require a special knowledge and skill base to create. The new CEREC 3D technology makes it possible to create four-unit bridges without the need for any additional impressions or procedures. The design data and optical images are used to create the final restoration using the CEREC milling machine.

For example, the CEREC 3D technology has been used to create bridges for patients with missing teeth in the anterior region of the mouth. The technology has been shown to be more accurate and more esthetic than traditional methods of creating dental bridges. In addition, the CEREC 3D technology has been shown to be faster and more cost-effective than traditional methods.

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The new Ivoclar Vivadent all-ceramic material for anterior restorations.

InCrown material for anterior restorations.

New journal: DIGITAL_DENTAL.NEWS will focus on cutting-edge technology in the dental sector. This interdisciplinary journal is targeted at dentists and dental technicians who are interested in continuously developing their knowledge and skills. Two topics will include CAD/CAM systems, CAD/CAM-Machinable materials, digital X-ray systems as well as optical and tissue treatment courses. The readers will receive useful information, new dental materials and software and practical advice on how to implement these in their own daily dentistry practices and laboratories.

Single payment – unlimited use

SOFTWARE ACTIVATION

In March 2007 Sirona will launch a new unlimited activation key for the inLab system (inLab III) at IDS 2007. The value of this upgrade equals the cost of a new inLab MC XL machine. For 17,990 euros, customers will be able to install unlimited Unrestricted activation keys and use the software for the inLab MC XL and CEREC MC XL machines.

CEREC club members enjoy a very good price.

New: SIRONALaser®

The CEREC product is on the crossroads

The new CEREC CAD/CAM system is on the crossroads. The interests of easy and intuitive operation and fast, accurate, precise results are on the one hand. On the other hand, the need for economic use and ensuring that procedures can be carried out within reasonable timeframes is very important.

No compromises

NEW MILLING MACHINES. Sirona’s inLab MC XL and MC 4 are precise, fast and easy to operate. and quiet.

Older versions will be phased out.

The CEREC product is on the crossroads MODULAR SYSTEM: The modular upgrading of the CEREC computer-aided dentistry system will bring the technology of modern dentistry – and keep the users up to date. As at the beginning of CEREC’s development it was not difficult to determine what dentists wanted. The difficulty was to put the wishes and specifications into practice. By making some very competent partners, Sirona won back its position with the aid of new technology: InCeram, the new multi-layer ceramic material which allows fürmoc, homogenous, high-molecular weight materials.

CEREC inLab users will be supported by Sirona.

The new VITA CAD-Temp comes with a CAD/CAM system.

Four-unit bridges are available in Germany, Austria, Switzerland, France, and the United Kingdom and the United States.

The new CEREC CAD/CAM system is not only more affordable. In the course of the seventh standardization (CEREC 7), Windows operating system was optimized to ensure that the existing properties of the software could be implemented. As at the beginning of CEREC’s development, the next challenge was to make the new technological platform available to as many dental professionals as possible. For this reason, CEREC has been designed with all the instal units and software and can be used by all dental practices. The software offers a lot of new possibilities and can be used to develop complex treatments.

The new CEREC CAD/CAM system.

the MC XL milling machine.

The new CEREC version of the MC XL milling machine delivers high processing precision and speed for the dental profession.

The one new CEREC CAD/CAM system.

Computer Aided Dentistry: Change is never a comfortless process. Instead it consists of milestones and turning points. Dentistry has reached one such turning point. The question is whether to use these new machines or go back to older versions.

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