The Dentsply Sirona inEos X5 is a highly specialised extraoral scanner that has established itself in thousands of laboratories around the world. Since its launch, it has constantly been in high demand. This year, Dentsply Sirona is celebrating the fifth anniversary of this precision scanner—a good time to have a look at the factors for the inEos X5’s success.

An important prerequisite for the successful production of a prosthesis is that the initial situation in the patient’s mouth must be scanned as precisely as possible to achieve the desired fit and minimise the need for reworking. In a digital workflow, the qualities of a model scanner such as the Dentsply Sirona inEos X5 play an important part.

**Proven precision for a wide range of indications**

Five-axis robot kinematics and structured-light scanning make the inEos X5 an all-round scanner. Both models and impressions can be scanned digitally, so the scanner can be used for many different indications. Its high precision has been checked in laboratory tests according to DIN EN ISO. The accuracy of the standard bridge test specimen was demonstrated to be 2.1 μm ± 2.8 μm; 1.3 μm ± 0.4 μm was verified for the standard inlay test specimen. For this reason, the inEos X5 is exceptionally suitable, especially for implant treatments. Precisely determining the implant position yields excellent conditions for exact restoration results, even for long-span screw-retained bridges and bars at the implant level.

“Since the launch of the inEos X5 five years ago, the demand for precise digital processes has remained very high,” said Jörg Haselbauer, Global Product Manager of CAD/CAM Laboratory Software at Dentsply Sirona. “The positive feedback from our customers in labs confirms this over and over again. I am certain that, in the future, even more dental technicians will benefit from the advantages of the inEos X5!”

**Open for flexible use**

The user friendliness of the inEos X5 is due in part to its large, open working range for direct, barrier-free access to the scan object and the possibility of placing all commonly used articulators in it. Depending on the case, automatic or manual scanning can be selected. The scan data recorded with the inEos X5 can be flexibly integrated into the further workflow, either via STL export or via wireless data transfer to the inLab CAD software. The inEos X5 is always delivered with a high-performance PC linked to the scanner and the software licence, with no additional recurring licence fees.

For more information on the inEos X5 laboratory scanner and all other components of the inLab system, see www.dentsplysirona.com.

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**Fig. 1:** Five years of reliability: the inEos X5 stands for high precision in scanning models and impressions.

**Fig. 2:** High-precision, extremely user-friendly and open, the inEos X5 is a reliable laboratory scanner for dental technicians for many different indications.
SEVEN implant system

Newly enhanced implant system

This past June, at the EuroPerio9 congress in Amsterdam, Netherlands, MIS launched the enhanced SEVEN implant system. Several key features have been added, that make the internal hex implant even better. Its biological stability and predictable aesthetics combined with the extensive R&D process which has led to these new improvements, have given the SEVEN a potential advantage in soft-tissue preservation and growth, as well as an array of restorative benefits. The combination of its unique features may provide the dentist with higher predictability, better aesthetic results and bone preservation.

The implant incorporates the platform-switching design concept. Implants with a platform-switched configuration have been shown to exhibit less bone loss when compared to non-platform-switched implants, which may lead to soft-tissue preservation and growth. The SEVEN’s root-shaped geometry and unique thread design enable excellent primary stability, allowing for a simpler and faster implant placement. With a new, comprehensive concept for enhanced aesthetics and better bone preservation in mind, and in order to support the advanced new implant features, an additional line of concave abutments has also been added. The concave emergence profile was designed for a larger gingival volume, and along with its gold shading, offers a better aesthetic result.

MIS Implants Technologies
www.mis-implants.com

Highest level of digital impressions

Planmeca Emerald—new crown jewel of intraoral scanning

The new Planmeca Emerald intraoral scanner has set the bar for capturing digital impressions. With unprecedented speed and accuracy, it represents the highest level of scanning available in the world today.

Planmeca Emerald has been designed with premium usability in mind and provides superior accuracy and outstanding speed in all situations. Owing to its small size and light weight, the scanner offers exceptional control and is comfortable for patients.

Planmeca Emerald’s seamless, autoclavable and exchangeable tips make infection control measures simple and efficient. The scanner’s two buttons also allow it to be operated without touching a mouse or keyboard, and it can even be controlled from a foot pedal when connected to a dental unit. The scanner’s plug-and-play capability allows it to be effortlessly shared between different rooms and laptops.

Planmeca Emerald has the flexibility to support various workflows. It can be used for a wide range of treatment modalities and offers benefits across several disciplines, such as implantology, orthodontics, prosthodontics and maxillofacial surgery. With open export and import options, regular updates and constant new features becoming available, the company continues to evolve and improve the scanner even further.

Planmeca Emerald is part of the Planmeca FIT chairside CAD/CAM system that integrates the entire chairside restorative workflow—from scanning to milling.

www.planmeca.com
Leading laboratory technicians around the world avoid much of the expense associated with production equipment, maintenance and stock by working with NobelProcera Services instead. Best of all, getting started has never been easier. For busy technicians, NobelProcera Services now offers more support options than ever before. Here are the five facts technicians need to know about NobelProcera’s ever-expanding range of outsourcing opportunities for the scan, design and production of precision-engineered CAD/CAM restorations.

No equipment costs
Investing in new in-laboratory milling equipment is one option for expanding a laboratory’s offering. For some laboratory owners, however, the initial investment can be off-putting or even prohibitive. Maintenance costs also need to be taken into account and there is the practical consideration of finding space in the laboratory for new equipment.

Outsourcing to NobelProcera Services means laboratories can offer an expanded product range without initial investments. There is not even a need to purchase a scanner or software, as models can be sent directly to NobelProcera’s skilled technicians for scanning and design.* Alternatively, technicians can provide scan data or full designs for industrial production—the choice is theirs. The flexibility of the service is something that many technicians may find appealing. NobelProcera Services can be utilised whenever the case requires it, with no risk of expensive equipment being under-utilised.

Only precision-engineered components
NobelProcera’s centralised production facilities use advanced industrial milling technology to provide technicians with quality restorations that are designed for a precise fit. NobelProcera abutments and bars meet the required regulatory requirements, including U.S. Food and Drug Administration clearance and CE
marking. In addition, all NobelProcera restorations are backed by a five-year warranty to give technicians and their customers peace of mind, and Nobel Biocare implants restored with a NobelProcera restoration are covered by a lifetime warranty.

It is important to note that restorations from over 170 other implant platforms are also available via NobelProcera Services. Its range of innovative restorations for Nobel Biocare implants offer features that enhance ease of use, such as the angulated screw channel (ASC) option. This solution allows the repositioning of the screw access hole in cases where it would otherwise be on the facial aspect or incisal edge, or when occlusal space is limited. The cement-free ASC option can also improve retrievability.

Wide selection of scanners supported

There is a greater likelihood than ever before that a dental professional’s scanner of choice is supported by NobelProcera Services. The ambition is for as many scanners as possible to link with the service, provided they meet the high standards required for implant dentistry. Well-known brands such as 3Shape and iTero are among the manufacturers of the 25 desktop and intraoral scanners compatible for submitting cases for NobelProcera production, and the list of supported scanners continues to grow.

Intraoral scanner workflow with online ordering now available

As intraoral scanner technology continues to improve, uptake among clinical teams is likely to increase. Dental professionals who prefer to take digital impressions using intraoral scanning technology can now be catered for easily using a fully digital NobelProcera Services workflow for abutments. Technicians can submit their cases to the NobelProcera team easily using online order forms and uploading 3Shape or NobelProcera scan files. No additional software is required.

Co-packing for added convenience

CAD/CAM implant bars, abutments and crowns have been available through NobelProcera Services for some time, but the scope of services offered has now expanded. Newly added is a co-packing option that provides a simple restorative workflow for intraoral scan cases. This allows the technician to receive the NobelProcera Abutment or Crown packed together with a 3-D printed model from approved vendor Dreve. It is a helpful option when working with digital impressions, where a traditional model is not produced as a matter of course.

To learn more about the full range of NobelProcera Services, technicians can visit www.nobelbiocare.com/nobelproceraservices.

* Some products may not have received regulatory clearance or have been released for sale in all markets.