

# ALWAYS AT THE FOREFRONT OF INNOVATION!

As global innovation leader for dental equipment, we continuously invest in research and thus in the future of modern dentistry. By networking digital technologies with integrated solutions and optimizing the treatment workflow, we create improved treatment results, more comfort and safety for the patient as well as time and cost savings in everyday work. The combination of constant innovative power and globally growing sales and service structures makes Sirona the global market leader trusted by thousands of practices and labs around the world. **Enjoy every day. With Sirona.**



#### CAD/CAM systems

From pioneer to new standard. For almost 30 years we have been developing digital dentistry and creating new possibilities for the future practice and lab.

#### Imaging systems

Best image quality with the lowest dose. More than 100 years of developing x-rays for the dental practice make us the number 1 innovation partner.

#### Treatment centers

The business card of modern practices. We are striving to create the ideal ergonomic and innovative center. Individually tailored to the well-being and demands of the patient and dentist.

#### Instruments

Advantages that speak for themselves. We make sure that we provide the right balance of proven quality, individual ergonomics and innovative technology for user-friendly work.

#### Hygiene systems

Competence that gives you safety. When it comes to hygiene in the practice, we do not take any shortcuts.

The Dental Company

sirona.

# inLab MC X5: DENTAL LAB FREEDOM OF CHOICE.



INLABMCX5.COM

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# inLab MC X5: YOUR NEW FREEDOM IN THE LAB.

Much has changed for the better in inLab from Sirona. Your dental lab CAD/CAM needs are our top priority. As from now you can organize your production processes entirely as you wish with no complex technological restrictions. In plain English: A new era begins for inLab breaking the chains of previous dependencies. Experience this new freedom for yourself and take advantage of the host of new possibilities that will bring greater flexibility and convenience to your work than ever before.

**Enjoy every day. With Sirona.**





# MAXIMUM FREEDOM FOR HIGHEST POSSIBLE DEMANDS

## YOU SIMPLY CANNOT IGNORE THE NEW inLab MC X5.

We would like to offer you complete freedom of choice in the dental lab when it comes to CAD/CAM production. For you this means independence in terms of material, indications and processing external CAD data. The new inLab MC X5 is designed specifically to meet dental lab technological requirements including cost effectiveness today and well into the future.

Dear Reader,

As a dental technician you are for Sirona a most important customer. Thus, when developing our inLab MC X5 our goal was to create a CAD/CAM dental product that completely meets your requirements. This new CAD/CAM lab machine was developed entirely at our Center of Innovation in Bensheim and is manufactured exclusively at the company headquarters in Germany. Our hallmark is exceptional quality. inLab MC X5 will impress you by every possible standard, because it has been designed specifically for daily use in the dental technician's lab and gives you unrivaled flexibility. The recently introduced inEos X5 extraoral scanner has already successfully established itself as the reference against which other dental laboratory scanners are measured. With inLab MC X5 we are building on this success and will continue to offer you innovative lab products in the future as well. Be prepared to be impressed

Rainer Berthan, Executive Vice President and Managing Director of the Bensheim plant

## DISKS AND BLOCKS



inLab MC X5 processes standard disks (Ø 98.5 mm, up to 30 mm thick) and blocks in a single machine. Together with complete freedom to use any material, the system offers you the capability to handle a broad spectrum of indications today and in the future. Switching from disks to blocks takes just a few seconds. The innovative multi-block holder can accommodate up to six blocks of different materials thereby enabling maximum productivity even with multiple single tooth applications.



## EXTERNAL INTERNAL AND

inLab MC X5 is a completely open production unit. It is the perfect supplement to the inLab components inEos X5 and inLab software, but for the first time it can also be used to process other STL restoration data. The completely redeveloped CAM module enables the machine to be connected to a wide range of other CAD systems at no additional cost.



## FORM AND FUNCTION

The new inLab MC X5 has more than just outstanding functionality and simple operation; its extremely stable construction and modern design are also highly attractive. Its compact, elegant shape will be a real eye-catcher in your lab and complements perfectly the award-winning inEos X5 extraoral scanner.

## GRINDING AND MILLING



5-axis machining and the associated production freedom with inLab MC X5 gives you for the first time access to an even wider range of indications and more complex dental work. The milling and grinding processes of inLab MC X5 are adapted to the individual material properties for an optimum result.

## WET AND DRY



inLab MC X5 can be used for wet, dry, or dry/wet combination production during the same machining operation depending on material and indication. Sirona has drawn upon its 30 years of experience in the wet processing of glass ceramics to create the ultimate machine for the wet grinding of fully anatomical restorations from high-strength monolithic materials. Switching between wet and dry production e.g. from glass ceramics to zirconium oxide is fast and uncomplicated.





## OPEN SYSTEM

Now for the first time inLab MC X5 can easily be integrated into any lab, as the production unit is able to work with design data from external CAD/CAM systems.



THIS SYMBOL STANDS  
FOR THE NEW inLab  
FREEDOM OF CHOICE.

## LARGEST RANGE OF MATERIALS

inLab MC X5 uses standard formats to gain access to the largest selection of materials on the market. You also benefit from the material expertise of our well-known cooperation partners.

## NO LIMITATIONS

The new 5-axis wet and dry production unit mills disks and grinds blocks. So you can be sure that in-house production for a wide range of indications in your own lab will be economical well into the future too.

# THE NEW FREEDOM IN DETAIL

Every aspect of inLab MC X5 has been designed to address the CAD/CAM needs encountered in dental labs. Intensive technical and technological exchange with many dental technicians has led to the creation of a production machine fulfilling practically all requirements. For the reliable, independent production of dental prostheses.



### Spindle Touch Technology

The unique technology of inLab MC X5 is able to capture the position of disks and blocks with the utmost precision. These exceptionally high levels of accuracy enable you to make the most economical use of materials and e.g. efficiently machine blocks with dentin or mesostructures.\*



### Easy Clean concept

The high-quality interior design of inLab MC X5 includes smooth surfaces and rounded contours. This reduces deposit amounts making the machine easy to clean. The intelligent suction concept, coverable tool magazine and software-supported cleaning system are all designed to make your work easier.

\*Spindle Touch Technology in WIP preparation



### First-class Tool Changing Concept

The fully automated tool changer can be fitted with up to six tools per process. You can prepare the tool magazine according to the specific material and manage it via the associated inLab CAM software. Intelligent spare tool management helps to achieve optimal tool service life and failure safety. Additional user friendliness and user safety is assured by the color coding for material types on each tool and tool magazine in the CAM software.

### Material-specific tools

Different tools are used depending on whether the machining process is wet or dry. Our carbide cutters and diamond grinders are designed to ensure that the cutting geometries and coatings are optimal for various indications and materials. So you achieve superb results on all surfaces and margins.



### More convenience with Touch Remote Control

You can now have a complete view of the machining status of your inLab MC X5 anywhere, anytime. With the "touch" optimized inLab CAM software you can navigate through the machine configuration and service functions on a tablet PC quickly and with just a few clicks.\*

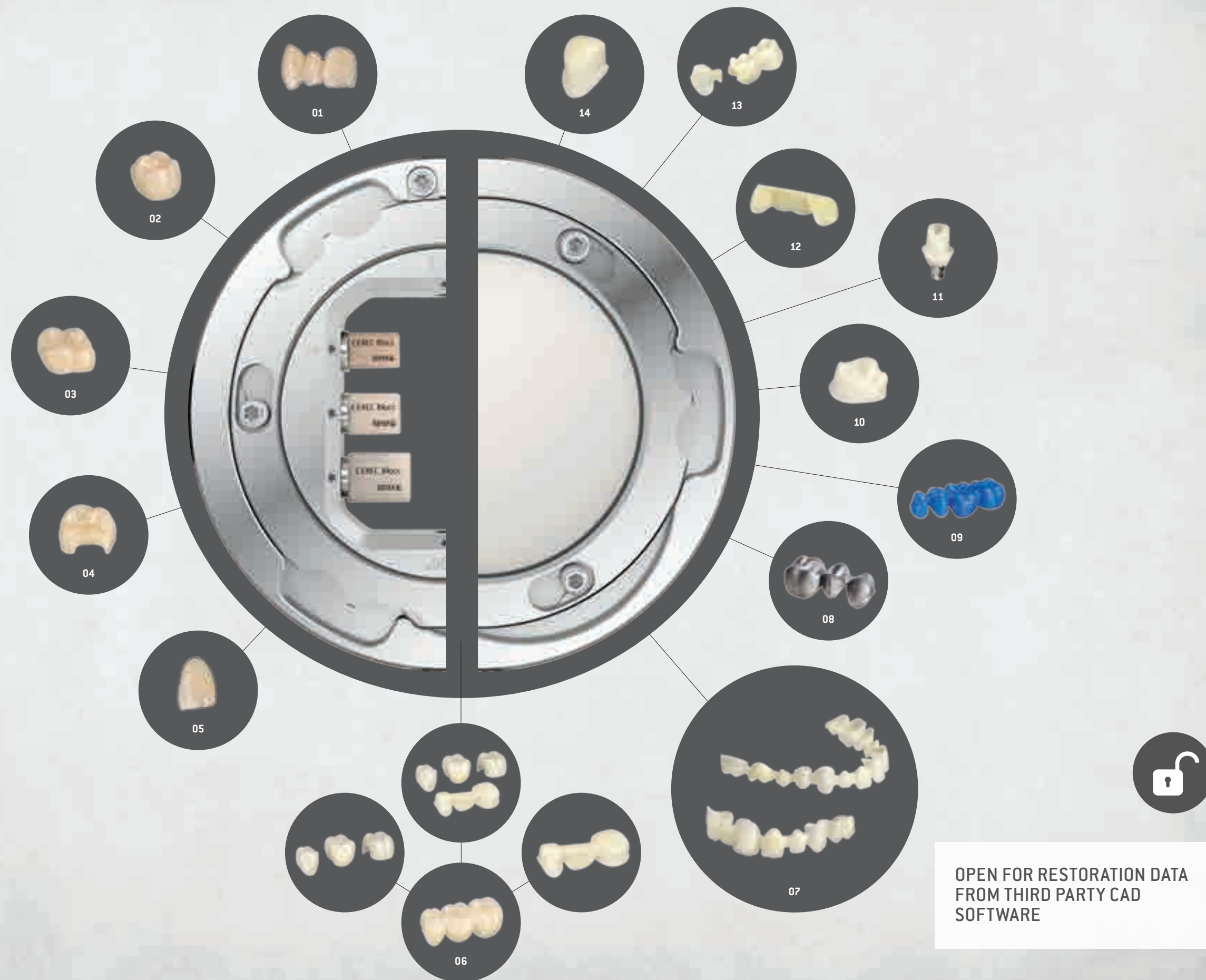


\* Requires the use of a standard commercial remote access solution, such as TeamViewer (not available from Sirona).



# OPEN FOR MORE VARIETY

With inLab MC X5, you ensure the future of CAD/CAM production in your laboratory. Whether you design with inLab CAD software or use other CAD data – the range of indications for inLab MC X5 is growing constantly and meets almost every need.



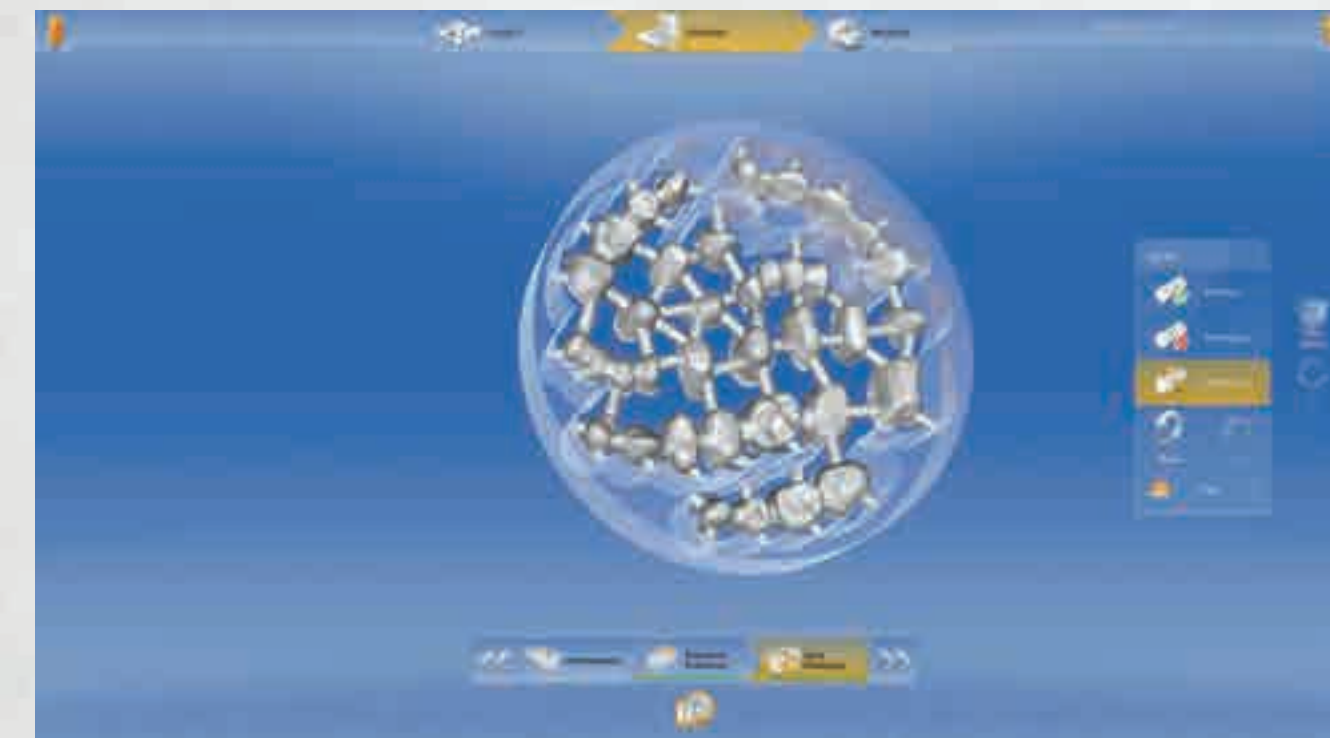
- 01 Bridges
- 02 Full crowns
- 03 Onlays
- 04 Inlays
- 05 Veneers
- 06 Multilayer bridges
- 07 Frameworks
- 08 Metal frameworks\*
- 09 Wax models
- 10 Copings
- 11 Abutments\*
- 12 Bars
- 13 Attachments
- 14 Telescopes

OPEN FOR RESTORATION DATA  
FROM THIRD PARTY CAD  
SOFTWARE

\* In WIP preparation.

# DIGITAL WORKING AT THE NEXT LEVEL

For the first time, inLab MC X5 is equipped with its own CAM software specifically configured to optimally work with the hardware – so guaranteeing reliable production and optimum results. All essential work steps, system configurations and integrated service functions can be carried out quickly and easily via the user friendly interface.



# AN OVERVIEW OF PERFORMANCE

## MATERIAL VARIETY – TOP QUALITY AND UNRESTRICTED

inLab MC X5 is designed as a universal production unit for processing zirconium oxide, polymers, composites, wax and metals\* as well as glass and hybrid ceramics. Effectively, you are free to choose from all material suppliers but you can also take advantage of the material expertise of Sirona’s well-known, long-standing material partners – CAD/CAM materials designed for optimum integration with the machining strategies of inLab MC X5.



\*In WIP preparation

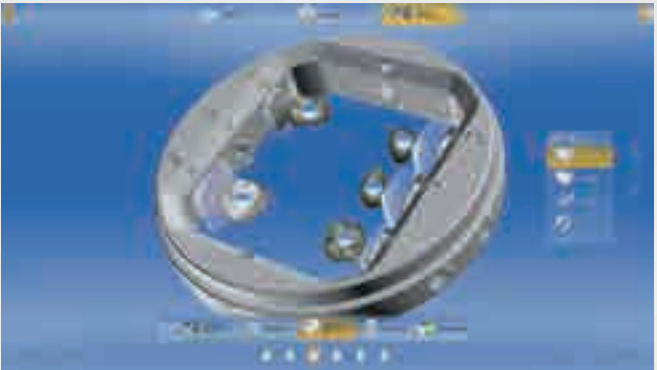
Technical data	Description
<b>Kinematics</b>	
Number of axes for machine kinematics	5
Angle of rotation/incidence for A axis	+/- 30**
Angle of rotation for B axis	360°
<b>Tool spindle parameters</b>	
Motor type	High frequency spindle
Maximum spindle speed	Max. 60,000 rpm
<b>Material</b>	
Material types	Zirconium oxide, polymers, composites, wax, glass ceramics, hybrid ceramics and metals ***
Disk size	98/98.5 mm diameter with collar (standard size)
Disk height	Up to 30 mm *
Block sizes	I8 to B40L**
Maximum number of blocks per job	Up to 6 blocks up to size I14/C14
Special block sizes	<div><div></div> Dentin structure blocks ***</div> <div><div></div> Mesostructure blocks ***</div>
<b>Connection requirements</b>	
Weight (without suction device and tank)	87 kg
Width x Depth x Height	629 mm x 575 mm x 795 mm
Nominal mains voltage	100 V – 240 V
Suction	Sirona suction (optional) or other external suction device can be connected
Tank	Coolant tank included in the scope of supply
Nominal power	200 VA
<b>Compressed air supply</b>	
Pressure	Min. 7 bar/102 psi applied constantly at the machine-side input
Quantity	Min. 50 l/min applied at the machine-side input
<b>Device installation surface – Tabletop height</b>	
Clear width	Min. 640 mm
Clear depth	Min. 600 mm
Clear height	Min. 850 mm
Recommended table height	Min. 900 mm
Recommended load bearing capacity	Min. 90 kg, without vibration

\* In WIP preparation. Initially limited to 20° angle of incidence and 22 mm disk height.  
\*\* Corresponds to all blocks with small Sirona block holder.  
\*\*\* In WIP preparation.



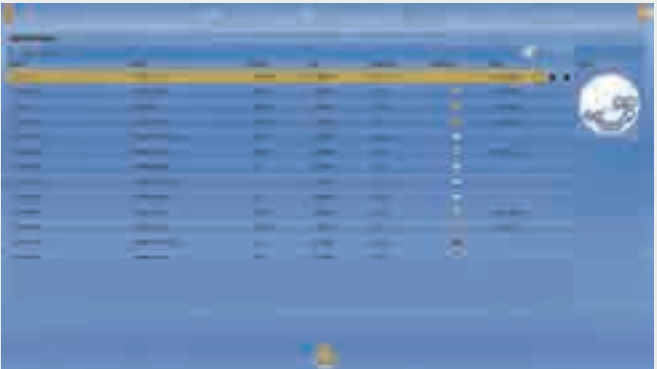
### PROCESSING STRATEGIES

- Flexible choice with various machining strategies for disks and blocks to individually define surface quality and other outcome details
- Anatomical pin reduction
- Individual pin settings



### MULTI-BLOCK MANAGEMENT

- Positioning of up to six blocks in different materials
- Restoration specific display of required block sizes
- Visualization of restoration height in polychromatic blocks



### DISK AND BLOCK MANAGEMENT

- Simple creation of new material disks and retrieval of previously created disks
- User support with general information about materials and material requirements
- Comprehensive color coding of material types and tools for an optimum overview
- Production start for up to six blocks with just one click



### TOOL MANAGEMENT

- Efficient creation and management of tool magazines according to specific material types
- Enhanced operator convenience with color coded tool display
- Clear display of tool service life
- Use of spare tools e.g. during overnight processing



# THE SYSTEM THAT BREAKS CHAINS

All inLab products are designed to comply fully with the number of requirements placed on your dental lab and offer you many possibilities: You can set up an end-to-end digital process within the inLab system operating concept with optimized workflows. Alternatively you can integrate individual components into your existing CAD/CAM setup via OPEN inLab interfaces.

**inLab software. MORE POSSIBILITIES, MORE FREEDOM**  
With inLab software, you are in control of the entire digital production process from model and impression scanning, receipt of digital impressions and design through to milling and grinding – simple, innovative, comprehensive.

**inEos X5. THE MOST INNOVATIVE SCANNER**  
The revolutionary extraoral scanner with innovative 5-axis technology is your specialist for all digitalization tasks, featuring outstanding accuracy, flexible handling, fast scan times and an exceptionally wide range of applications. Scan data can be exported for processing in other CAD/CAM systems via the integrated STL interface.

**inLab MC X5. EVERY OPTION. NO LIMITATIONS.**  
The new inLab MC X5 offers you a new level of freedom of choice in your CAD/CAM production processes. The 5-axis lab machine mills and grinds wet and dry offering you the broadest spectrum of materials on the market. It is also open to receive restoration data from other CAD systems. In short: You are totally independent.

**inLab MC XL. JUST-IN-TIME MULTI-TALENT**  
Besides its other impressive features, inLab MC XL is also able to handle individual milling and grinding tasks particularly wet machining of glass ceramics rapidly and accurately. With its large selection of materials it offers you a wide range of application options in your lab.

**inFire HTC Speed. THE FASTEST SINTERING FURNACE**  
This high-temperature furnace is suitable for all sintering materials that can be processed using inLab production machines. It features additional speed sintering programs and also enables non-precious metals to be sintered – all in a single furnace chamber.

red dot award 2014 winner

product design award 2014

