

# New generation of leading **CAD/CAM technologies** 2017



 imes-icore  
 quality  
 made in germany

**NEW!**  
**PRO**  
**SERIES**

**CORiTEC** - leading technology

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# imes-icore sales and distribution partners worldwide



The dots on the map represent the imes-icore sales and distribution partners worldwide. Learn more on our web page.

[www.imes-icore.de](http://www.imes-icore.de)

## **A strong network**

imes-icore offers a worldwide distributor network, for your benefit. We constantly expand and broaden the availability of contact persons and support staff.

Find out more about our distribution system at [www.imes-icore.de](http://www.imes-icore.de)



## Innovation for the future

Our long-standing collaboration with renowned partners in the dental industry have resulted in synergies in manufacturing and development of dental CAD/CAM systems and their open source functionality.

Partners are of great importance in the development of applications, uses and the upgrade of existing as well as newly developed machine systems. These partnerships provide our customers with

“Innovative and future-proof solutions for your CAD/CAM systems”.

## Application partners



and many more...

In imes-icore GmbH, the name says it all:

## Competence in CNC & DENTAL solutions

The abbreviation imes for “integrated **m**echanics, **e**lectronics, **s**oftware” implies the core of our operation in Eiterfeld: We focus on ready-to-use system solutions to meet requirements of customers in their craft, education and industry. The abbreviation icore stands for “integrated dental solutions” for the dental industry.

imes-icore combines all their know-how in the development, production, sales and service of complete CNC machine systems with all required additional components and CAD/CAM applications.

Cutting, separating material and assembling processes are offered in the global market in the form of “CNC systems from a single source”. The machine systems with processing sizes of approx. 150 mm x 50mm up to approx. 3000 mm x 6000 mm (other sizes available on request) find their international market mainly in the general:

- Cutting technology (milling of hard metals, light metals, plastics, wood, Styrofoam, ceramics, etc.)
- CNC technology (separating using water jet cutting or laser cutting processes)
- Medical technology (CAD/CAM systems for dental and orthopedic technology)
- Reconstructive procedures (additive manufacture of components by melting wire, paste and powder)

From the beginning imes-icore GmbH offers the customer a complete solution proposal for the task to be realized, through an expert consultation or a demonstration. After acceptance and delivery of a CNC machine system, corresponding training and support of the customer and the machine system is guaranteed by the specialist personnel in the after-sales service department. Short response times for any inquiries or service operations also safeguard multi-layered industrial operations.

The outstanding advantages of imes-icore CNC systems are their modular structure, the open interfaces, and the flexibility for application adjustments resulting from that. In this way, customer requirements can be met very quickly, and at a good price/performance ratio. The CNC systems are supplied as complete solutions, which can be easily retrofitted and expanded later with additional modular components and additional functions.

The corporate objective of imes-icore GmbH is to continually develop and improve the user-oriented features of different CNC machine systems. The system will therefore continue to offer flexibility for the user into the future and remain technologically up to date, to be able to meet requirements at any time and with a well coordinated system.

## Part of a strong group!



**imes-icore**



**quality**



**Made in Germany**

The imes-icore GmbH is a company of the internationally operating isel Group.

Launched in 1972 as “isert-elektronik”, and later renamed to isel Group, the imes-icore GmbH has gained a reputation with sophisticated CNC solutions. True to the motto of the isel Group: “from components to systems”, the imes-icore GmbH is competent and specialized in the field of CNC machine systems, and has thus been established as an independent pillar of the isel Group.





**Plant 1 Eiterfeld**



**Plant 2 Eiterfeld**



**Plant Eichenzell**



**Plant Berlin**



**Plant Dermbach**





## CNC machines fields of application in sophisticated medical technology

**imes-icore** produces intersectoral solutions for industry and medicine. As our customer, you will benefit from this. Continuous availability of spare parts ensures a long-term and smooth production process.

Our technicians and engineers are always working for you, and developing innovative

technologies. Synergies arising from an expertise in the medical field and the manufacturing of industrial systems will benefit you as an **imes-icore** customer.

The imes-icore products are always on the cutting edge of technology, as a high proportion of our staff is working in R&D. imes-icore Leading Technology



Orthopedics



Medical technology



Research

**Thousands of satisfied customers  
prove us right**



# The CORiTEC system

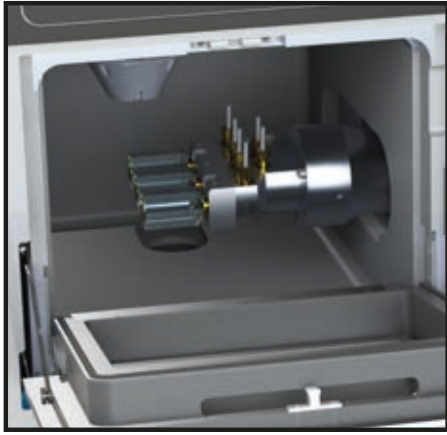
Perfectly matched machines and consumables ensure effective production processes, and lead to a whole new level of quality awareness. By now, more than 15 years of experience in the dental market has resulted in the fifth generation with a series of 10 different milling systems. This makes the imes-icore GmbH the only company, worldwide, which is able to offer an optimized solution, in tune with the needs of the customer, for any milling center, lab or any size dental practice. Moreover, we not only offer individual components, but also complete and customized solutions that enable you to start a process-safe production chain with the CAD/CAM system on the very first day. Our support department is always available for you, as a partner throughout the entire process chain!





# CORiTEC one

## The intelligent Practice Lab Solution 2.0



### Technical Highlights

- a new type of closed mono-block cast body
- optimized touch software operation
- optimized axle kinematics
- high dynamics, precision and speed
- outstanding price-performance ratio
- processing of all commonly used material blocks, as well as premilled abutments
- multi-adapter for up to three blocks or maxi-blocks (65mm x 40mm x 20mm)
- highest degree of stability and precision,
- fully integrated wet and dry processing
- automated 6-fold tool changer
- tool runtime monitoring / breakage monitoring / tool management / job management
- integrated control PC with 10" touchscreen for smart graphical operation
- only low-pressure compressed air needed (2 bar)
- innovative cooling / filtering system for easy handling
- fully enclosed wet cell with larger genuine glass pane
- integrated CNC and CAM module
- modern, high-quality and ergonomic machine-design
- efficient milling spindle with 80,000 rpm

only **2 bar** necessary



The new CORiTEC one machine system is suited perfectly for processing any common CAD/CAM blocks up to a size of 65mm x 40mm x 20mm (maxi blocks). Offering the new and extremely robust axis kinematics, the machine is also able to machine premilled abutments.

The high-quality cast aluminum construction facilitates high stability while maintaining the smallest of footprints. Machine operation is user-friendly via the large touchscreen display with its integrated high-performance PC, no additional computer system required. The 3-fold block holder and 6 tool positions with sister (twin) tool function make economic, safe and fast processing possible with the highest possible quality output.

The machine is ideally suited for practice labs, combined with an intra-oral or desktop scanner. For laboratories or milling centers it may be an excellent complementary system for specialized applications like glass ceramics and premilled abutments.

Retaining bracket system



**NEW!  
SYSTEM**

Specialized for sophisticated processing  
of ceramic blocks  
and premilled abutments



## Technical Specifications

Number of axes and machining type	4-axis simultaneous machining
Max. setting angle of the rotary axis	360° processing possible
Wet and dry processing	Fully integrated
Maximum speed / Pmax~	80,000 rpm / 0.4 kW
Axle drives	Microstep motors
Tool fitting	3 mm shaft
Tool changer	6-fold
Workpiece changer	Manual 3-way adapter
Weight	65 kg
Width x depth x height	380x495x600 mm
Supply voltage / frequency / power	100V-240 V/50/60 Hz/800 W
Compressed air supply	2 bar
Materials	Premilled abutments, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramic, hybrid ceramics
Compatibility	CAD/CAM blocks (1-way and 3-way adapter), maxi blocks (65mm x 40mm x 20mm) nt-trading pre-milled abutments, Medentika PreFace® abutments

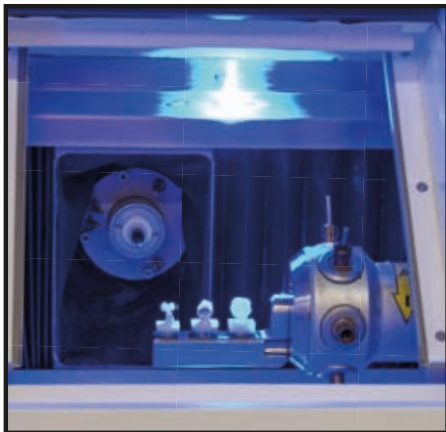
# CORiTEC 140i

The solution for practice labs



## Technical Highlights

- 4-axis processing
- integrated TouchScreen operation
- processing of all commonly used material blocks and premilled abutments
- multi-adapter with up to three blocks
- automatic 6-fold tool changer with Tool Management
- tool runtime control/breakage control
- highest precision through high-frequency spindle with up to 60,000 rpm
- fully integrated wet machining with filter system



High precision  
through integrated  
temperature compensation!



The CORiTEC 140i machine system is perfectly suited for everyday use and for grinding of virtually all block materials available on the market. The machine can directly produce restorations when used in combination with an intra-oral scanner.

Also, the system is often used as specialized equipment in labs and milling centers for special wet processing of a wide variety of block materials. The sturdy industrial design of the machine makes processing with highest-quality output possible, even the production of premilled abutments.

Retaining bracket  
system



# Specialized for processing of block materials

**NEW!**  
TOUCH  
VERSION



## Technical Specifications

Number of axes and machining type	4-axis simultaneous machining
Max. setting angle of the rotary axis	360° processing possible
Wet processing	Integrated
Maximum speed / Pmax~	60,000 rpm / 0.4 kW
Axle drives	Microstep motors
Tool fitting	3 mm shaft
Tool changer	6-fold
Workpiece changer	Manual /1-way and 3-way adapter possible/block processing
Weight	55 kg
Width x depth x height	470x575x405 mm
Supply voltage / frequency / power	100V-240 V/50/60 Hz/800 W
Compressed air supply	6-9 bar constant supply, 50 liters/minute
Materials	Premilled abutments, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramic, hybrid ceramics
Compatibility	CAD/CAM blocks (1-fold and 3-fold adapter), nt-trading pre-milled abutments, Medentika PreFace® abutments



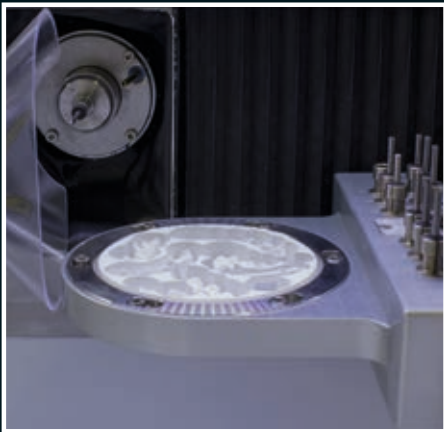
# CORiTEC 245i touch/ 245i touch dry

## Optimal price/performance ratio

The CORiTEC 245i and CORiTEC 245i dry machine systems establish your productive entry into dental CAD/CAM manufacturing. Also, these systems are suitable as complementary systems in larger labs and milling centers.

The ideal price-performance ratio of these machines facilitate the economic production of almost all dental restorations in zirconium dioxide, PMMA or wax materials. All commercially available blanks with the 98 mm or 98.5 mm diameter can be used.

Processing of CAD/CAM blocks or premilled abutments are also possible by using the respective adapter systems. This makes the CORiTEC 245i a very affordable system for an broad range of materials.



## Technical Highlights

- 4-axis processing system
- tool runtime control/breakage control
- axis position up to  $\pm 30^\circ$
- 12-fold tool changer
- HF spindle with a max. of 60,000 U/min
- integrated cooling cycle for cooling lubricants (CORiTEC 245i touch)
- compressed air and coolant level monitoring
- processing of Zircon, PMMA, wax, plastics, grindable block materials (CORiTEC 245i touch)
- processing of premilled abutments is possible with 6-fold / 15-fold retaining bracket (CORiTEC 245i touch)
- integrated control PC with touch screen

## Retaining bracket system





High-precision  
machining through  
integrated temperature  
compensation!



**NEW!**  
TOUCH  
VERSION



## Technical Specifications

Number of axes and machining type	4-axis simultaneous machining
Max. setting angle of the rotary axis	A-axis +/- 30°
Wet processing	Integrated for the CORiTEC 245i
Maximum speed / Pmax~	60,000 rpm / 0.4 kW
Axle drives	Microstep motors
Tool fitting	3 mm shaft
Tool changer	12-fold
Workpiece changer	Manual
Weight	95 kg
Width x depth x height	544x650x612 mm
Supply voltage / frequency / power	100 V-240 V/50/60 Hz/800 W
Compressed air supply	6-9 bar constant supply, only 50 liters/minute
Materials	Zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics Premilled abutments and hybrid ceramic (only CORiTEC245i touch)
Compatibility	98 mm/98,5 mm blanks, CAD/CAM blocks (3-fold adapter), Lava Frames, nt-Trading premilled abutments, Medentika PreFace® abutments (6-fold / 15-fold retaining bracket)

# CORiTEC 250i touch/ 250itouch dry

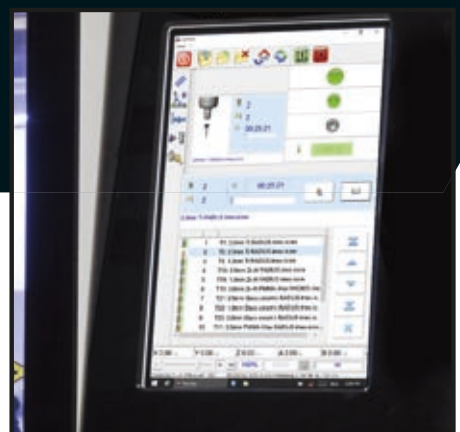
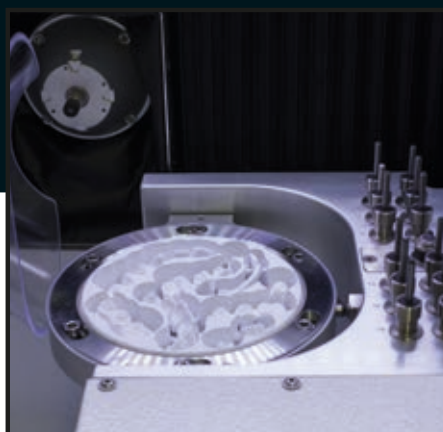
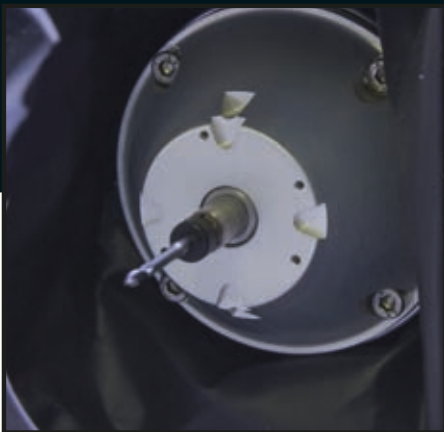
## The Compact - 5-axis system

The CORiTEC 250i and CORiTEC 250i dry machine systems are the most widely used CAD/CAM systems for applications of zirconium dioxide, PMMA or wax. Thanks to the 5-axis technology, these machines can also produce complex dentures with diverging stumps and undercut areas without further rework. These systems are therefore ideal if a good price/performance ratio is in the foreground, while simultaneously retaining very high equipment flexibility.

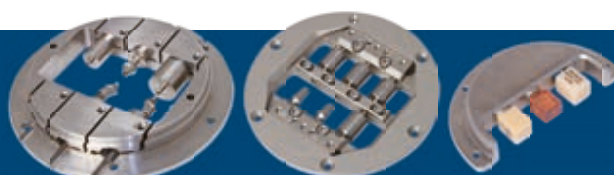
Processing of CAD/CAM blocks or premilled abutments are also possible by using the respective adapter systems. This makes the CORiTEC 250i a very cost-effective system, offering an high variety of materials, and with its 5-axis system great flexibility as well.

### Technical Highlights

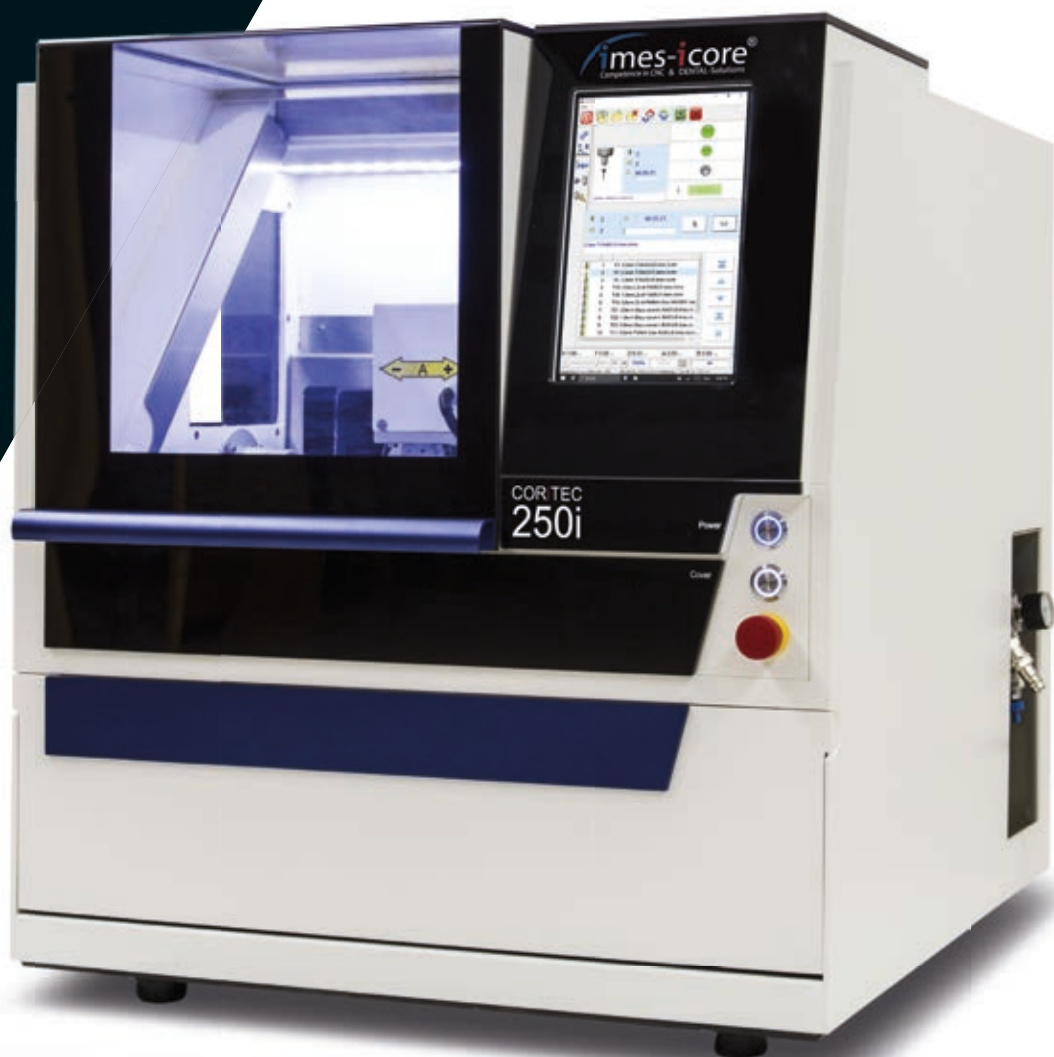
- 5-axis machining systems with up to  $\pm 30^\circ$  axis orientation
- tool runtime control/breakage control
- integrated cooling cycle for cooling lubricant (CORiTEC 250i)
- HF spindle with a max. of 60,000 U/min
- 12-fold tool changer
- compressed air and coolant level monitoring
- for processing of zirconium, PMMA, wax, plastics, and grindable block materials
- processing of premilled abutments possible
- integrated control PC with touch screen



Retaining bracket  
system



**NEW!**  
TOUCH  
VERSION



## Technical Specifications

Number of axes and machining type	5-axis simultaneous machining
Max. setting angle of the rotary axis	A-axis +/- 30° / B-axis +/- 25°
Wet processing	Integrated for the CORiTEC 250i
Maximum speed / Pmax~	60,000 rpm / 0.4 kW
Axle drives	Microstep motors
Tool fitting	3 mm shaft
Tool changer	12-fold
Workpiece changer	Manual
Weight	95 kg
Width x depth x height	544x650x612 mm
Supply voltage / frequency / power	100 V-240 V/50/60 Hz/900 W
Compressed air supply	6-9 bar constant supply, only 50 liters/minute
Materials	Zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramic Premilled abutments and hybrid ceramic (only CORiTEC250i touch)
Compatibility	98 mm/98,5 mm blanks, CAD/CAM blocks (3-fold adapter), Lava Frames, nt-Trading premilled abutments, Medentika PreFace® abutments

# CORiTEC 350i

## CORiTEC 350i Loader

### The automated all-in-one solution!

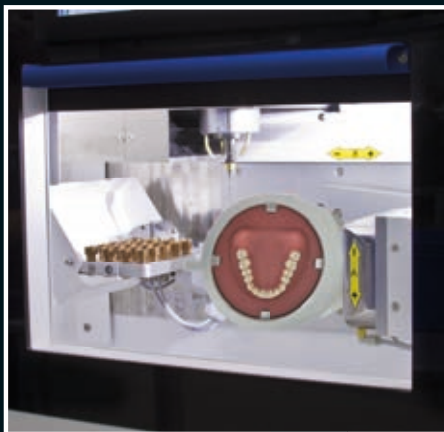
The new CORiTEC 350i processing system is an innovative machine concept, developed to meet any requirements of modern CAD/CAM processing. The processing of all relevant blank materials from CoCr, titanium, zirconium dioxide, plastics, block materials, and new future materials is thus possible with a single machine system, virtually without restrictions.

The modern and optimized machine kinematics, with high free angles of the 5 axes of over 30°, allows milling and grinding as wet and dry processes and with high quality. This makes the system an all-rounder, ideal for demanding labs, to produce all typical applications in your own lab, with high quality, using CAD/CAM technology.

The CORiTEC 350i, with its optional zero point (clamping) system facilitates the quick change of blanks by switching out the entire blank depot with the push of a button. The CORiTEC 350i Loader is equipped with a fully automated 12-fold material changer.

## Technical Highlights

- 5-axis, simultaneous machining
- Base structure made of steel/aluminum
- Integrated wet and dry processing
- Zero point (clamping) system (optional for CORiTEC 350i)
- processing of all important materials used in the dental industry, including metalworking
- Axis tilt angle up to 30°
- 20-fold tool changer
- HF spindle with up to 60,000 rpm
- Integrated control PC with touch screen
- Servomotors on all axes
- Chip protection of the tool changer
- Frontal machining of the workpiece is possible (B-axis in 90 degree position)



Retaining bracket system





High-precision  
machining through  
integrated temperature  
compensation!



## Technical Specifications

Number of axes and machining type	5-axis simultaneous machining
Max. tilt angle for machining with 98mm blank	A-axis +/- 30° / B-axis +/- 25°
Max. axis tilt angle	A-axis: 360° / B-axis: 115°
Wet processing	Integrated
Maximum speed / Pmax~	60,000 rpm / 1 kW
Axle drives	Servo motors with encoder resolution of 0.5 µm
Tool fitting	6 mm shaft
Tool changer	20-fold with chip protection cover
Workpiece changer	350i: Manual (zero point clamping system optional) 350i Loader: 6-fold fully automatic (up to 12-fold optional)
Weight	350i: 180 kg / 350i Loader: 225 kg
Width x depth x height	350i: 758x790x857 mm 350i Loader: 1058x790x857 mm
Supply voltage / frequency / power	100 V-240 V/50/60 Hz/2200 W
Compressed air supply	6-9 bar constant supply, 60 liters/minute
Materials	CoCr/NEM, titanium, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, nt-Trading premilled abutments, Medentika PreFace® abutments, Baltic Denture, Lava Frames



# CORiTEC 350i PRO

## CORiTEC 350i Loader PRO

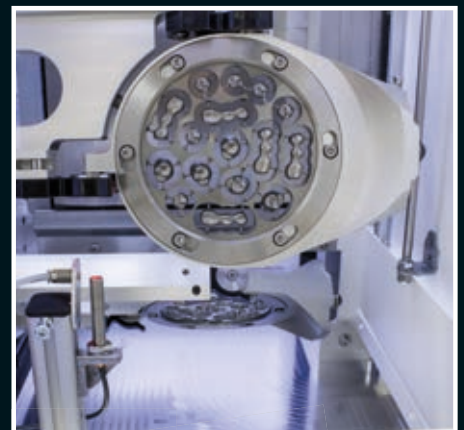
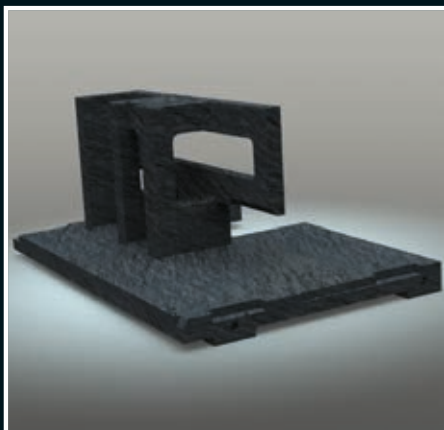
The professional solution for highest demands!

The development of the CORiTEC 350i PRO was a completely new machine concept for us. The one-piece machine frame made of polymer concrete provides maximum stability for vibration-free processing. The high-definition, dynamic servo motors with absolute measuring systems increase processing speed by up to 20% while maintaining optimum precision. This makes the CORiTEC 350i PRO suitable for the highest demands of a dental lab or milling center in a very compact design. The CORiTEC 350i PRO is able to process any CAD/CAM materials. The machine's precision also allows the processing of highly complex restorations such as one-piece implant retained constructions.

The standard blank depot makes it possible to process restorations using the 5-axis process with tilt angles of up to 30 degrees. The optional zero point clamping system allows the CORiTEC 350i to easily change the blank. Of the complete blank holder by the push of a button. In addition, the zero point clamping system can be used in a variety of different ways and Adapter systems, e.g. The 15-time premilled Abutments Adapter or the Baltic Denture System. The CORiTEC 350i Loader is also equipped with a fully automatic blank changer (for up to 12 blanks).

### Technical Highlights

- revolutionary base structure of polymer concrete (PRO)
- 5-axis, simultaneous machining
- absolute measuring system in all axes (PRO)
- new, high-dynamic servo drives for up to 20% quicker processing (PRO)
- Integrated wet and dry processing
- zero point clamping system integrated
- processing of all important materials used in the dental industry, including metalworking
- axis tilt angle up to  $\pm 30^\circ$
- 20-fold tool changer
- Blank magazine with up to 12 blanks of different materials
- HF spindle with up to 60,000 rpm
- frontal machining of the workpiece possible (B-axis in 90 degree position)



Retaining bracket system



High-precision  
machining through  
integrated temperature  
compensation!



**NEW!**  
**PRO**  
**SERIES**



## Technical Specifications

Number of axes and machining type	5-axis simultaneous machining
Max. tilt angle for machining with 98mm blank	A-axis +/- 30° / B-axis +/- 25°
Max. axis tilt angle	A-axis: 360° / B-axis: 115°
Wet processing	Integrated
Maximum speed / P <sub>max</sub>	60,000 rpm / 1 kW
Axle drives	Servo motors with absolute encoder of 0,15 µm
Tool fitting	6 mm shaft
Tool changer	20-fold with chip protection cover
Workpiece changer	350i <b>PRO</b> : Manual with zero point clamping system (2 Blankholders inclusive) 350i Loader <b>PRO</b> : 8-fold fully automatic (up to 12-fold optional)
Weight	350i <b>PRO</b> : 205 kg / 350i Loader <b>PRO</b> : 250 kg
Width x depth x height	350i <b>PRO</b> : 758x790x857 mm 350i Loader <b>PRO</b> : 1058x790x857 mm
Supply voltage / frequency / power	100 V-240 V/50/60 Hz/2200 W
Compressed air supply	6-9 bar constant supply, 60 liters/minute
Materials	CoCr/NEM, titanium, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, nt-Trading premilled abutments, Medentika PreFace® abutments, Baltic Denture, Lava Frames

# CORiTEC 650i

## CORiTEC 650i Loader

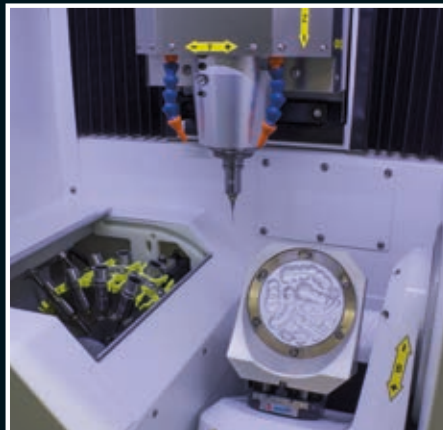
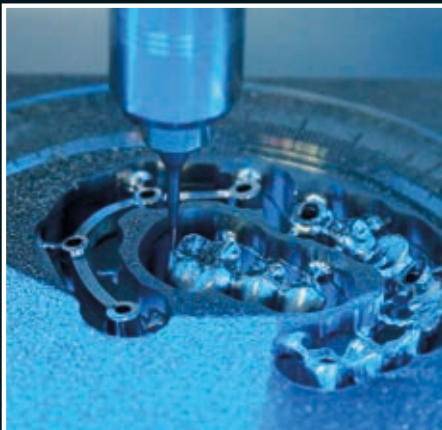
High End quality with  
Future-oriented technology

We developed the CORiTEC 650i and CORiTEC 650i Loader machine systems for the area of PREMIUM machines and PREMIUM requirements. The systems are offered with very attractive pricing and are equipped with high-quality industrial milling technologies, such as granite structure, linear drives in the linear axes, torque motors in the rotary axes, as well as digital absolute length measuring systems, and powerful main spindles. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal working processes. All other relevant materials can also be milled or ground with high quality using this machine system, applying wet and dry processes.

The CORiTEC 650i loader includes a fully integrated automatic 16-fold blank changer. This enables you to operate the machine system at full capacity around the clock without supervision, while maintaining consistent high precision. Thus, the machine system is ideally suited for large labs and milling centers, where these high quality standards and large quantities are at the forefront.

### Technical Highlights

- solid axis structure from polished natural granite for highly dynamic 5-axis simultaneous machining, and for high-precision milling results
- absolute, high-resolution measuring systems on all axes
- high-frequency spindle up to 50,000 rpm and 2.3 kW with HSK 25 tool holder
- 32-fold fully automatic tool changer
- 16-fold fully automatic workplace changer (only CORiTEC 650i loader)
- integrated wet and dry machining for all materials and indications
- with touch screen - control
- leading linear and torque motor technology

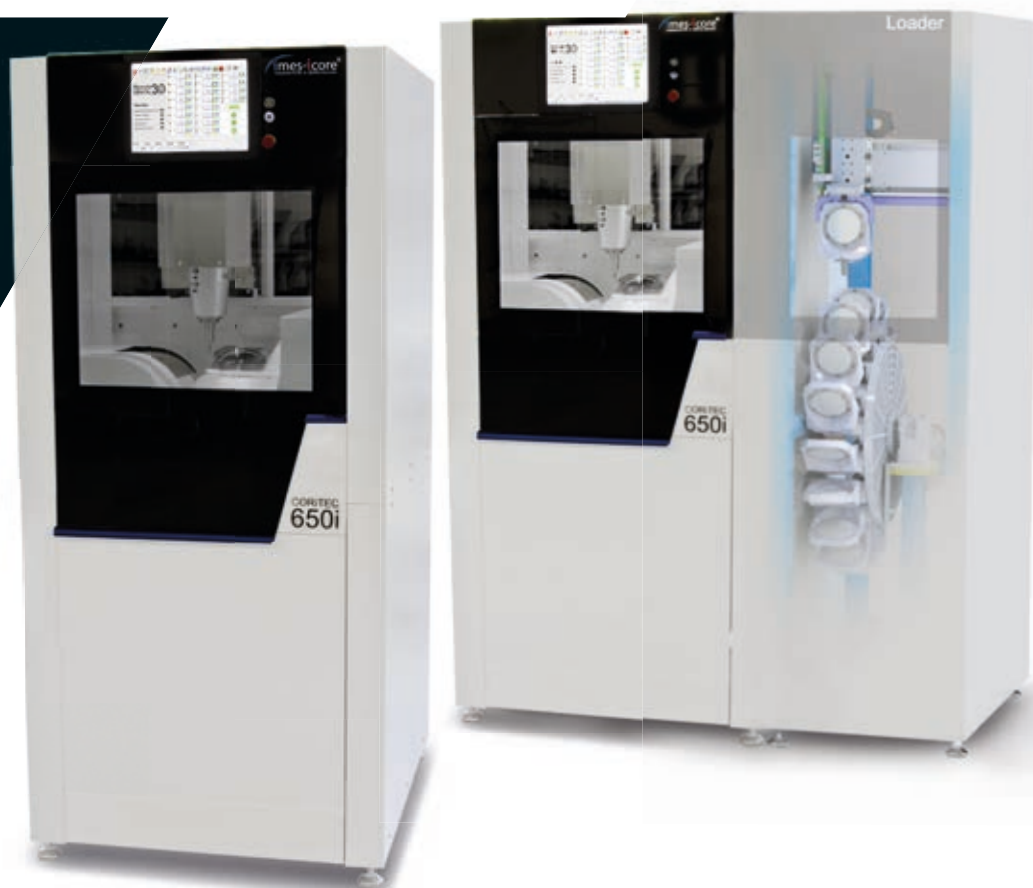
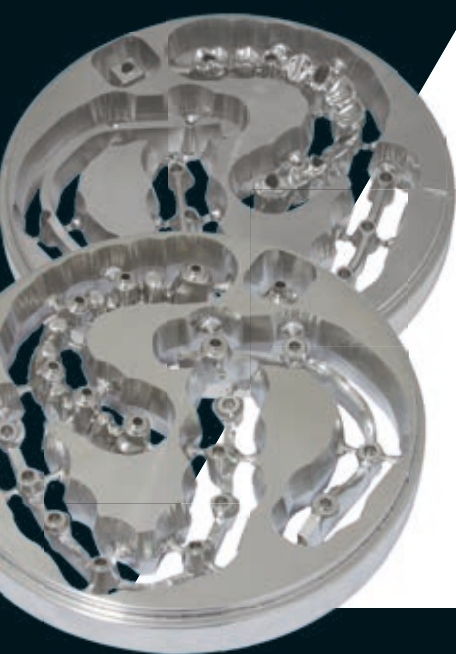


Retaining bracket  
system





Axis made of granite with  
highly precise linear &  
torque motor technology



## Technical Specifications

Number of axes and machining type	5-axis simultaneous machining
Max. tilt angle for machining with 98mm blank	A-axis +/- 30° / B-axis +/- 25°
Wet processing	Integrated
Maximum speed / Pmax~	50,000 rpm / 2.3 kW
Axle drives	Linear motors and torque motors absolute measuring systems; resolution of 0.5 µm
Tool fitting	HSK 25
Tool changer	32-fold with chip protection cover
Workpiece changer	Manual / optional: with zero point clamping system / 16-fold fully automatic (loader)
Weight	650i: 625 kg 650i Loader: 930 kg
Width x depth x height	650i: 785 x 1100 x 1940 mm 650i Loader: 1325 x 1100 x 1940 mm
Supply voltage / frequency / power	400 V - 3 phase / 50/60 Hz / 2800 W
Compressed air supply	6-9 bar constant supply, 100 liters/minute
Materials	CoCr/NEM, titanium, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, nt-Trading premilled abutments, Medentika PreFace® abutments, Baltic Denture, Lava Frames

# CORiTEC 350i robot

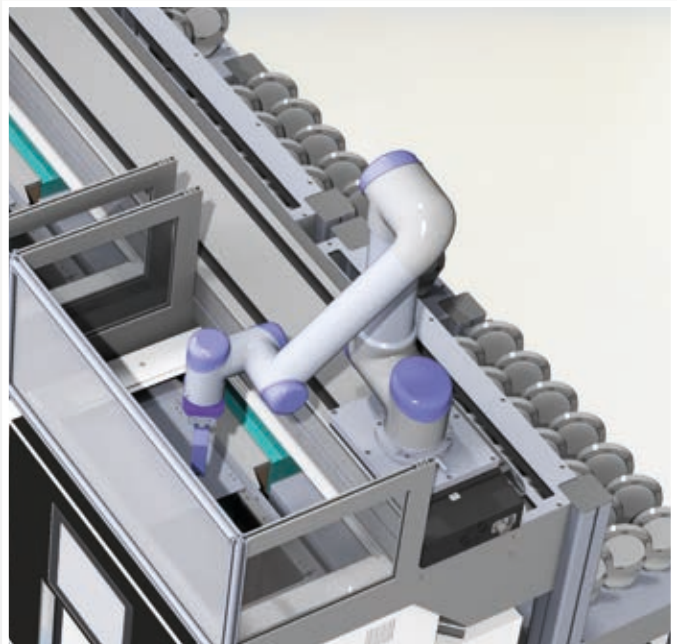
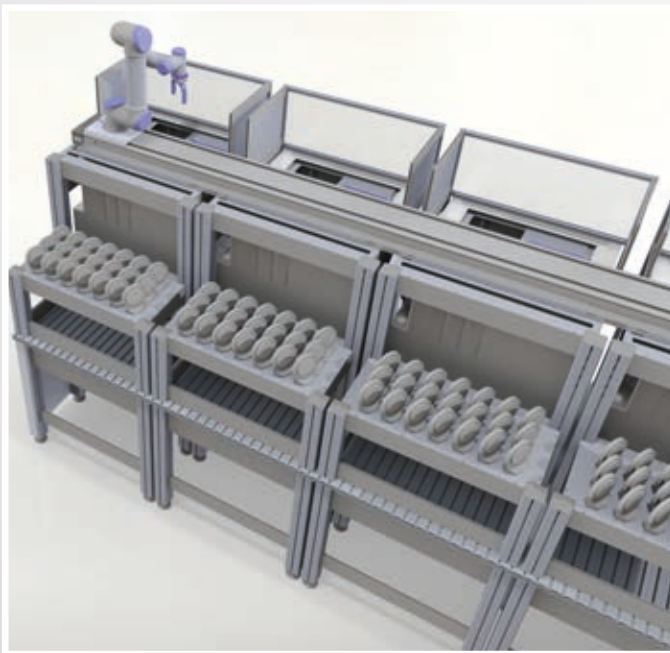
## The fully automatic modular solution for production centers

This high-end system for milling centers was built on the basis of the innovative CORiTEC 350i PRO. All installed components are designed for precision, durability and are state-of-the-art: Basic structure of polymer concrete, AC servo drives with absolute measuring systems in all axes, zero point (clamping) system and intelligent central job management. The production line is equipped with a 6-axis handling robot and a large blank magazine, which completes the system into a fully automatic production line for all relevant materials.

The machine design of the “PRO” series is able to master the always accurate, vibration-free and dynamic movement sequences for all demanding and complex materials, so that excellent surface quality and accuracy can be achieved during milling and grinding using wet or dry processes.

### Technical Highlights

- fully automatic production line for all materials relevant to dentistry
- robotic handling of machine loading and unloading
- fully automated 24 hour production is possible
- up to 84 dental blanks in the integrated material storage
- loading new blanks and discharging the work during the production process
- expandable up to 5 “CORiTEC 350i PRO“- milling machines with one robot handler
- optional laser cutting and engraving system for labeling and separating the milled workpieces
- job management software for intelligent control of the production line



Retaining bracket  
system





# 24 hours Production!



## Technical Specifications

Number of axes and machining type	5-axis simultaneous, laser machining
Max. tilt angle for machining with 98 mm blank	A-axis +/- 30° / B-axis +/- 25°
Wet processing	integrated, several separate loops are possible
Maximum speed / Pmax~	60,000 rpm / 1 kW
Axle drives	AC servo motors with high-resolution absolute measuring systems
Tool fitting	6 mm shaft
Tool changer (Pro machine model)	20-fold with chip protection cover
Workpiece changer	21 / machine model with fully automatic robot handling
Weight	approx. 500 kg (2 machines) to 1250 kg (5 machines)
Width x depth x height	1600 mm to 4000 mm x 1300 mm x 2000 mm
Supply voltage / frequency / power	100 V-240 V / 50/60 Hz / 2200 W Pro machine model
Compressed air supply (Pro model)	6-8 bar constant supply, 60 liters/minute
Materials	CoCr, titanium, zirconium dioxide, aluminum oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
Compatibility	98 mm/98.5 mm blanks, CAD/CAM blocks, nt-Trading premilled abutments, Medentika PreFace® abutments, Baltic Denture, Lava Frames

# CORiTEC smart control

## smart control of machine software for the future

Available for:

one

140i

245i

250i

350i  
350i PRO

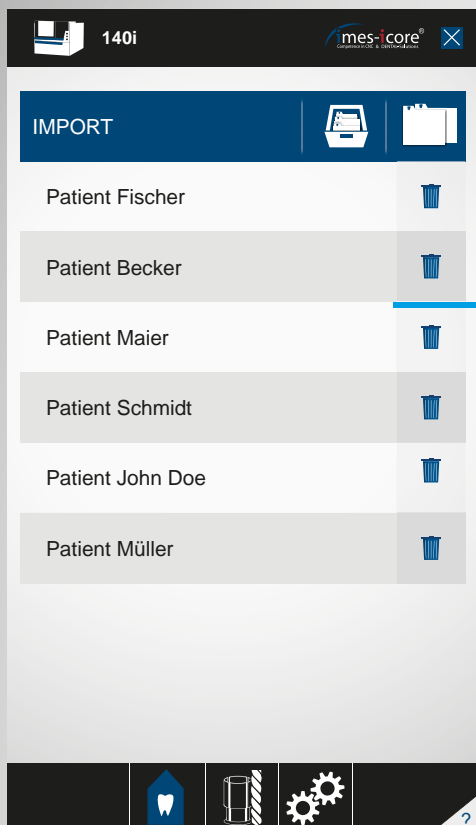
650i

245i dry

250i dry

350i Loader  
350i Loader PRO

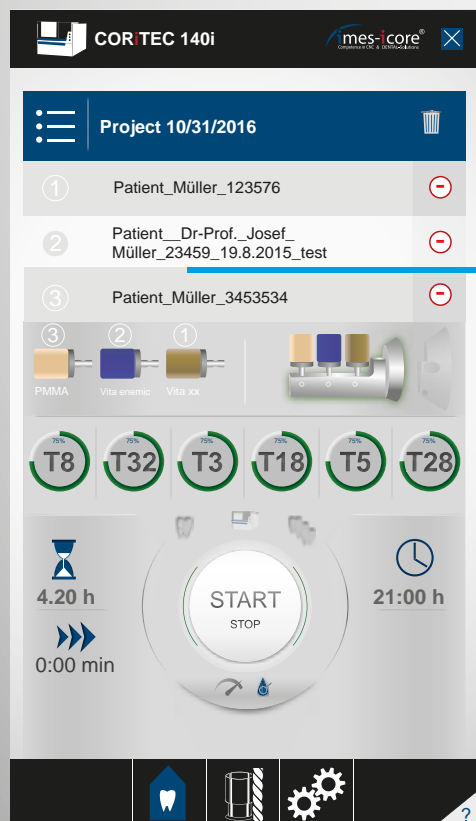
650i Loader



3D preview of  
STL/job data,  
dynamic zoom/turning

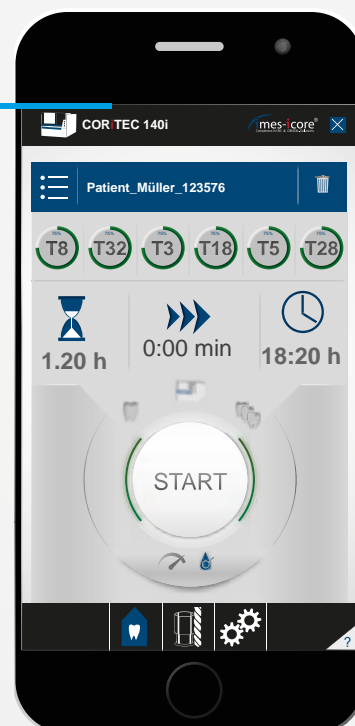
intuitive management of  
the milling jobs

Perfect overview of the  
necessary materials, tools,  
adapter systems  
Status of the milling job,  
Status of the machine



Smartphone  
remote monitoring

Combining milling data  
for multi-space holders is  
possible.



## smart control - one touch further!

The completely redeveloped "smart control" machine control interface for the imes-icore allows the absolutely intuitive operation of milling machines. Self-explanatory user interfaces, beginning with the job selection on through milling of the jobs or querying for the machine status. The optimally designed machine handling makes it possible to get introduced to the machine operation in the shortest possible time! Getting a milling job started can be as easy as two "Clicks / Touches"; what could be smarter than that?!

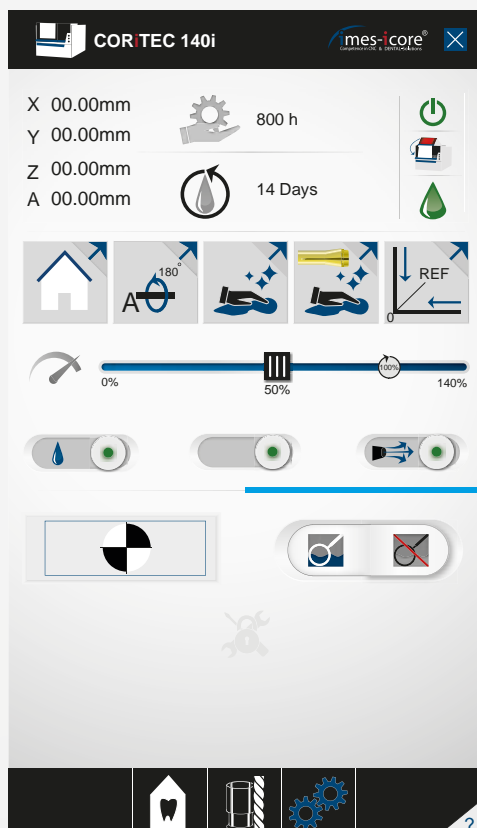
### Features

- modern touch control design
- straightforward operation with intuitive graphical interface
- high-end performance for imes-icore® milling machines
- remote monitoring via Smartphone
- job management with 3D preview
- real-time 3D simulation for monitoring

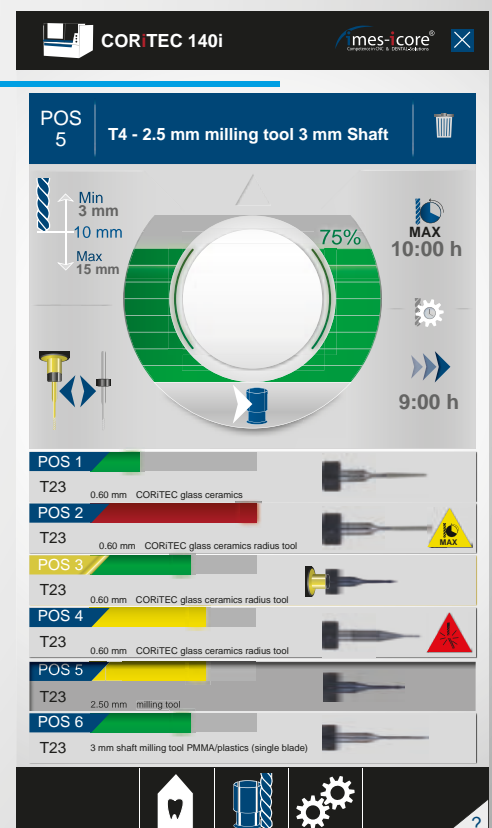
optimized for  
TouchScreen  
operation



real-time 3D simulation with  
dynamic zoom/turning during  
the milling process



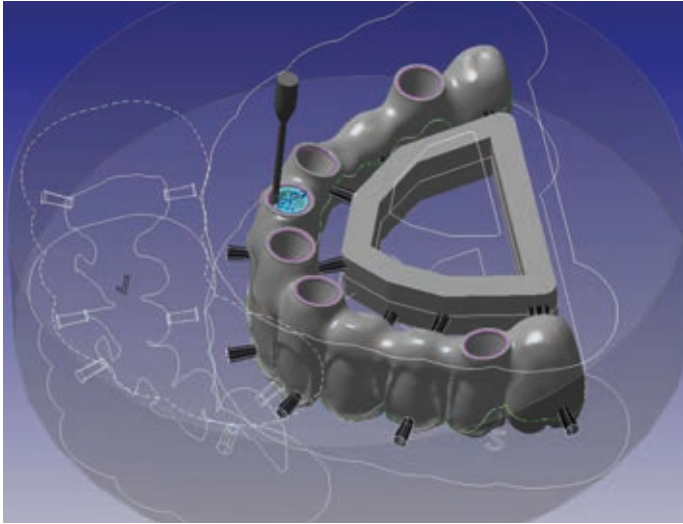
ideal tool management



clear settings range  
with all necessary functions



# CORiTEC iCAM V4.7



CORiTEC iCAM V4.7 is a renowned 5-axis Pro CAM system, which has matured from many years of experience. Simple, reliable and fast operation makes the iCAM V4.7 unique. Applied dental application software has been optimized for the automatic production of high-quality dental restorations.

It quickly calculates the milling data for all common materials and dental structures with optimized and safe milling strategies, based on fourteen years of dental CAD/CAM experience. The user-friendly and clear user interface, as well as many fully automated functions, ensure its reliable and easy operation.



Multilayer view

iCAM V4.7 automated processes for beginners and professionals is sure guidance through the complete milling program. A full industrial CAD/CAM system, developed in Germany, and with over 30 years of experience is at work just below the surface of the dental user application. The open source CAD/CAM software is used in industry and in the medical field for professional manufacturing.

## Highlights

- 5-axis simultaneous machining and/or 3 + 2 machining to reach undercuts
- Video Help Function
- individually definable multi-layer function
- 64-bit multi-core support
- no annual license fees
- unlimited term
- validated post-processors for all imes-icore® CORiTEC machines
- improved high optimization
- processing of all common dental materials
- constant expansion of prefab-abutment systems
- individual fit parameter settings for cavities and abutment geometries
- simplified / detailed blank and job documentation

## Integrated new modules:

- automated milling of tooth models
- production of prefabricated ceramic crowns made of pritiDenta®
- automated milling of splints, model casts, and implant-supported, screw-retained applications are possible

## Simultaneous machining:

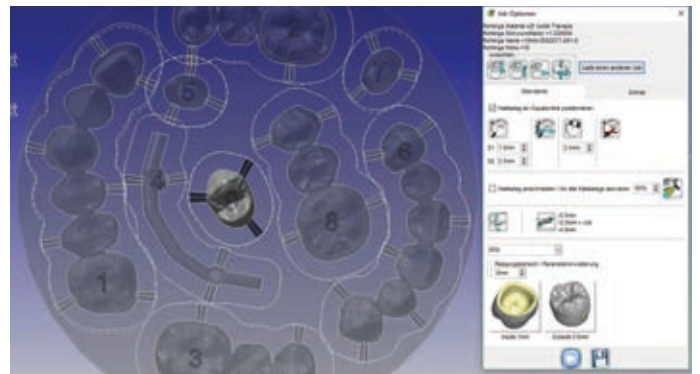
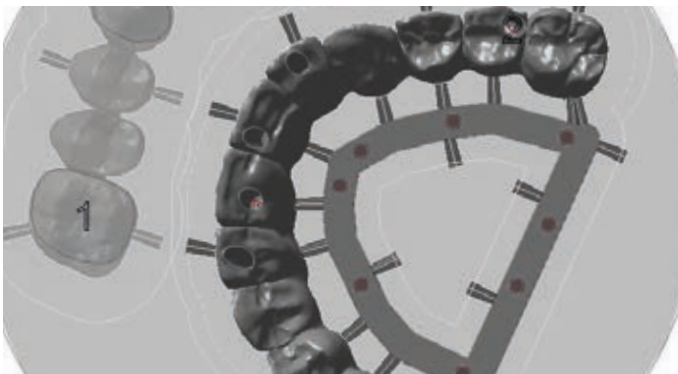
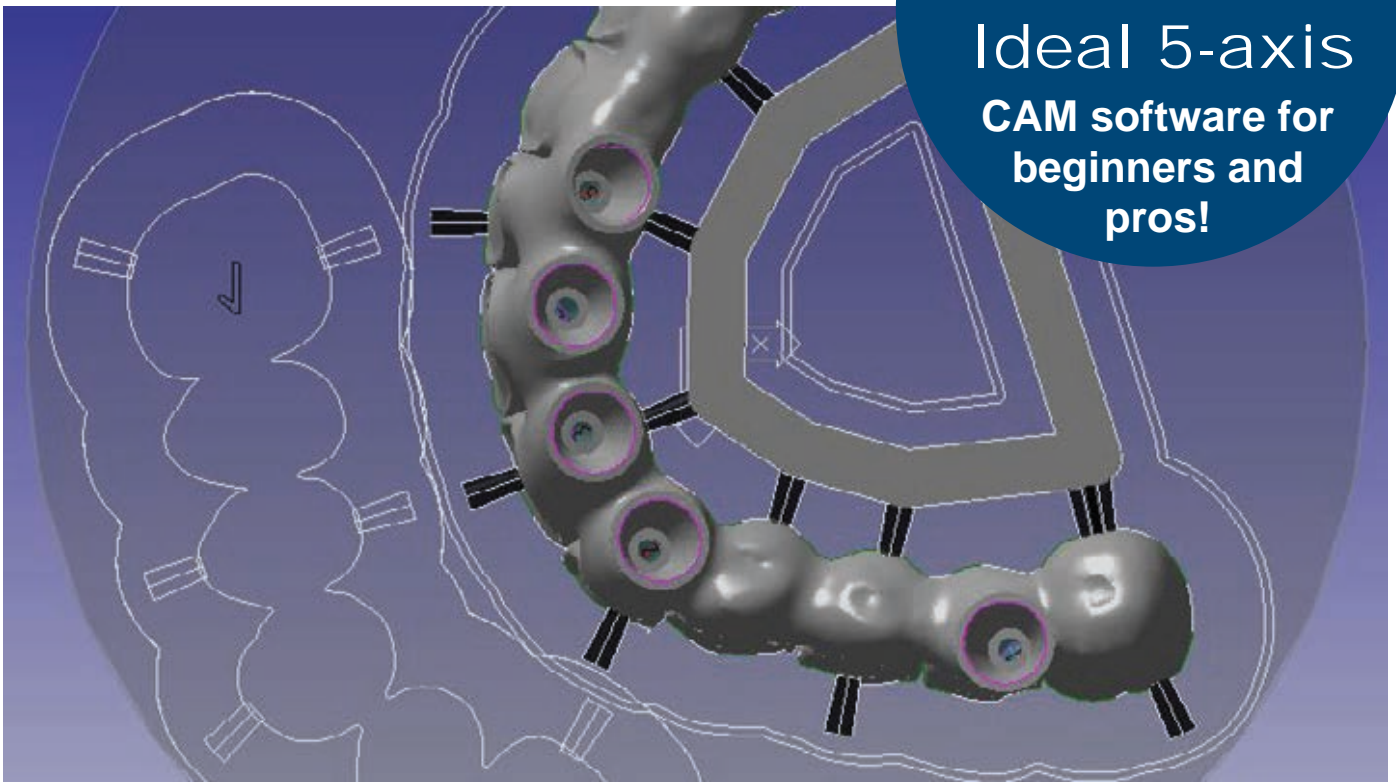
A further highlight of the iCAM V4.7 is the simultaneous machining of dental restorations.

The processing method can easily be selected:

- simultaneous processing of the complete restoration
- simultaneous processing for the adjustment area
- alternatively: 3+2 processing

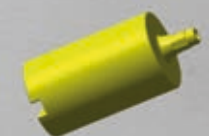


**Ideal 5-axis  
CAM software for  
beginners and  
pros!**



## Adapters / integrated systems: Adjustment area / parameter expansion:

- nt-trading Preform
- Medentika Preface
- Straumann
- Schütz-Impla
- Bredent BioHPP SKY elegance
- TiGen
- SICvantage
- Dentaaurum-tiologic
- Neodent
- DESS



The friction in the adjustment area can easily be adapted. Individual customer settings can be directly set when placing the workpiece without changing the basic strategy.

## Optimized strategy selection

The various strategy options are offered clearly as picture buttons. Strategy options for any job can be adapted via these buttons.

## Video Help Function

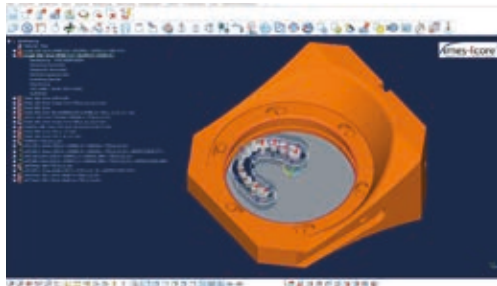
The built-in Video Help button is your direct support for any open questions, right there in each menu. A video preview is displayed in the subject areas.

# CORiTEC

## iCAM V5 smart

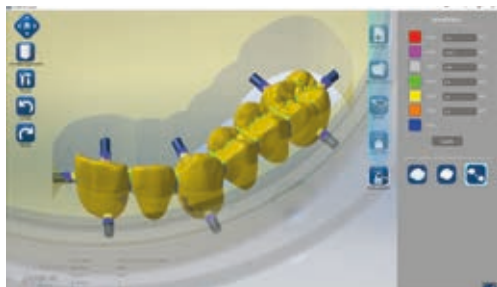
smart high-end CAM solution  
with perfect flexibility!

Proven comprehensive features of the iCAM V5 in the expert interface.



iCAM V5 smart is the high-end CAM solution by imes-icore GmbH.

It enables high-precision calculation of 5-axis simultaneous milling data for excellent finish quality and fitting accuracy. Especially for hard materials such as glass ceramics, CoCr and titanium, accurate high-resolution milling data is critical for best fit and long tool service life. Furthermore, the extremely high milling data resolution results in the perfectly quiet and precise running of your milling machine, which also increases the tool service life. Thanks to the predefined milling strategies developed by imes-icore for all materials and applications, iCAM V5 offers a valuable CAM solution that increases the productivity of the CAD/CAM system. Precisely these options maximize the benefits of our high-end imes-icore milling machines.



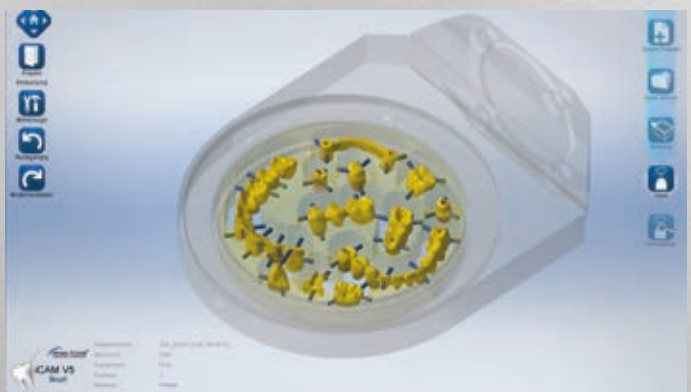
multi-core simultaneous detection of residual materials for automated strategy / milling optimization

Furthermore, iCAM V5 includes essential features, such as the fully automated placement of blanks, dynamic height optimization, partial or complete separation of retaining bars, automatic creation of sintering supports for zirconium dioxide & sinter metals, as well as complete flexibility in the integration of further milling tools, or custom milling strategies.

In the art of dental implants "ReFit" system implant geometries, which were imported in an STL format from a CAD system, can be replaced by high-resolution and detailed vector connection geometries. This makes precision processing possible, and most of all ensures consistent reproducibility.

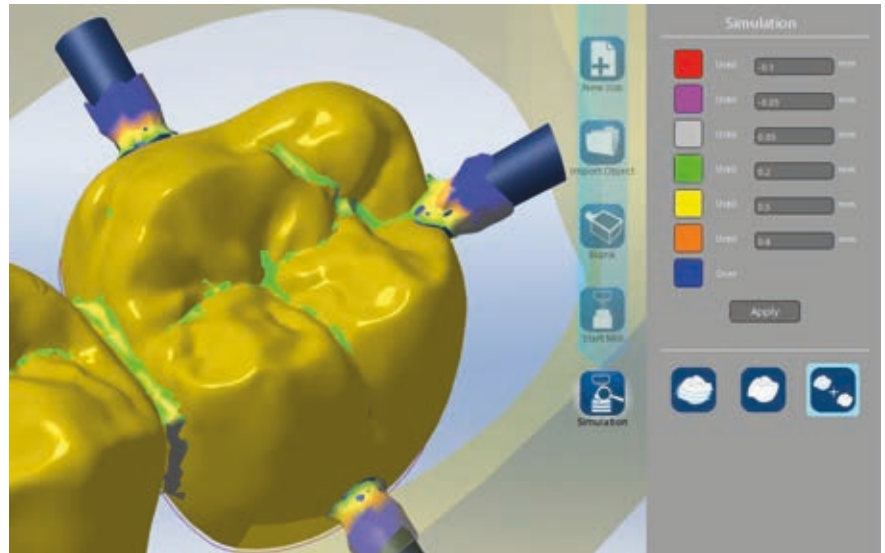
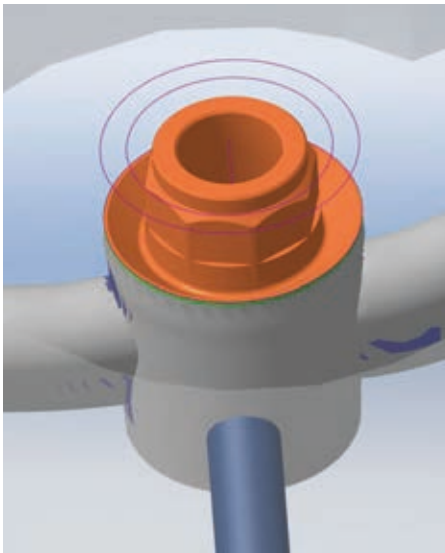
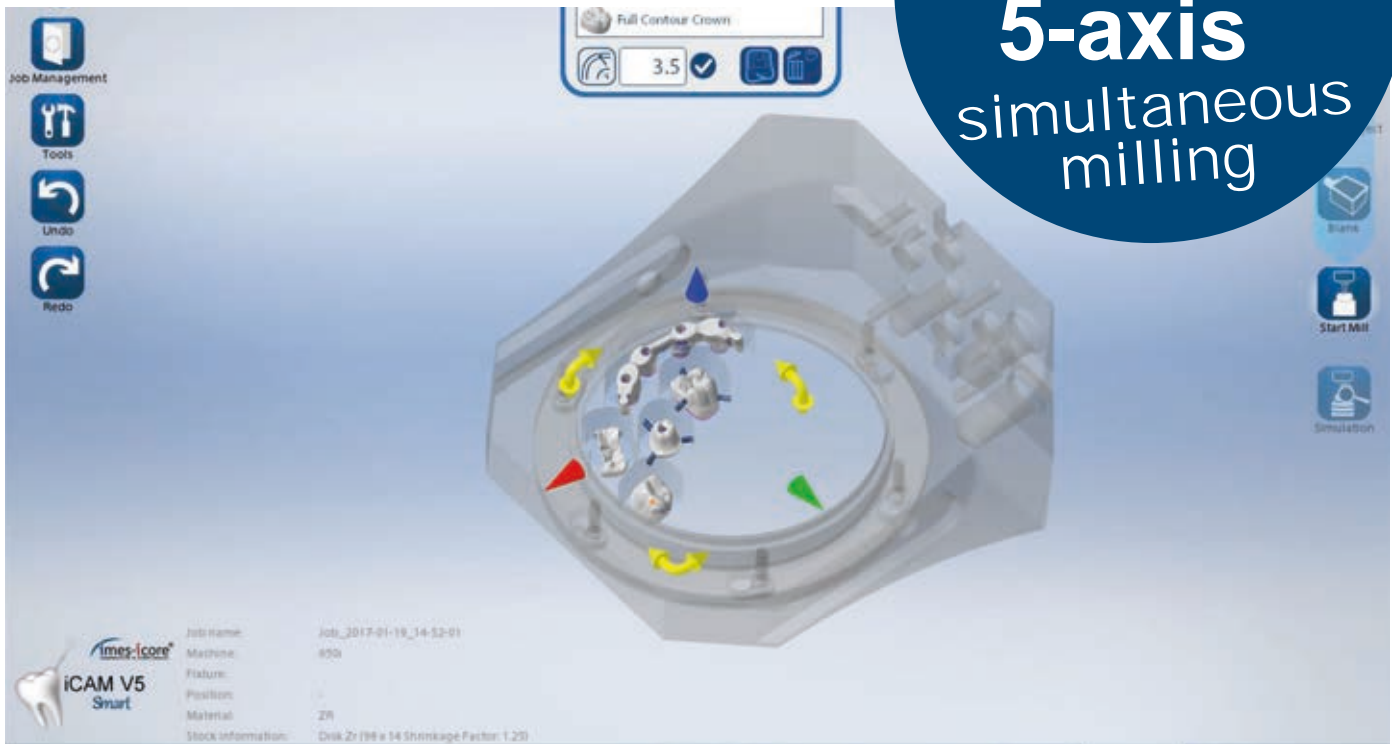
## Highlights

- 5-axis simultaneous machining and/or 3 + 2 machining to reach undercuts
- no annual license fees
- unlimited term
- fully automatic and easy operations with "Wizard Workflow"
- "ReFit" – abutment exchange geometries
- auto nesting function
- placing retaining bridges across jobs
- shaded modern multi-layer representation
- documentations for blanks and jobs
- full collision control
- full high-end iCAM V5 performance with smart user interface
- milling path calculations with visual residual materials display
- 64-bit multi-core support
- validated post-processors for all imes-icore® machines
- processing of all common dental materials
- constant expansion of prefab-abutment systems
- individual fit parameter settings for cavities and differing interface geometries
- available in four expansion levels (upgradeable)





# 5-axis simultaneous milling



## ReFit:

Highly accurate abutment replacement geometries take the place of STL connection geometries. Optimized milling strategy for:

- High-end fittings
- Screw-retained workpieces
- Abutments

## Geometry detection:

Automatic STL data analysis

Detection of

- Abutment geometries
- Drill holes
- Edge contours

## Nesting

- AutoNesting
- Manual positioning
- Job-Job retaining bridge

## Premilled abutment systems:

Continual expansion

e.g. Medentika, nt-trading, Straumannnt-trading, Medentika, Straumann, Schütz-Impla, Bredent BioHPP, MegaGen, SICvantage, Dentaureum, Neodent, DESS

## Design

- modern user-friendly design
- optimized multi-layer display
- Simulation with collision control and residual material display

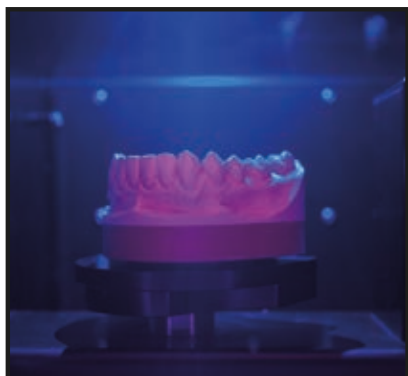
## Workflow

- minimal familiarization time
- Error prevention through simple intuitive workflow

# CORiTEC i3Dscan eco

The new i3Dscan eco is an extremely compact, fully automatic dental scanner! The all-inclusive package is particularly suitable for beginners or for smaller labs, which want to produce easily, quickly and cost-effectively. In addition to the basic functions like crowns and bridges, expansion modules are readily available, such as articulator, inlay, onlay veneer, splints, telescope or individual abutments.

During the development we paid special attention to ergonomics and handling. We intentionally left off a door, to make an even faster and more efficient production possible for our users. But one thing will remain the same! High-quality characteristics 'Made in Germany'.



## Technical Specifications

Measurement accuracy (acc to ISO 12836)	6 µm
Size (W x H x D) mm	360 x 310 x 390
Measuring field (X x Y x Z) mm	80 x 60 x 85
Weight	11 kg
Supply voltage	100 – 240 VAC, 50/60 Hz
Connection	USB
Output format	STL

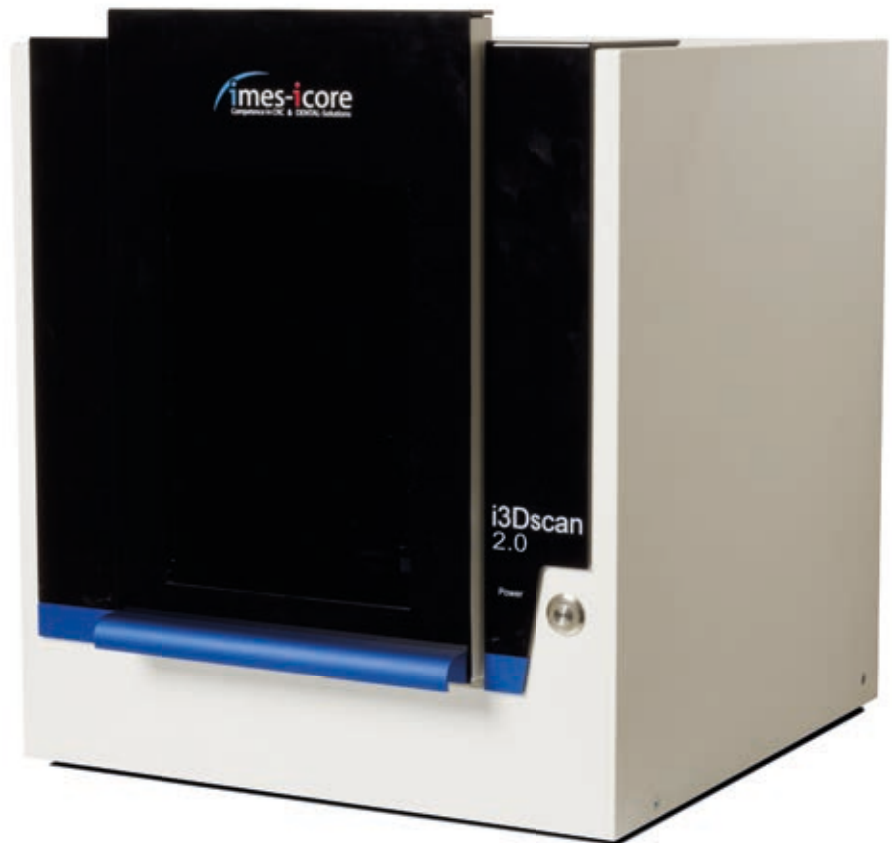


# CORiTEC i3Dscan & CORiTEC i3Dscan 2.0

Our new "i3Dscan 2.0" model has proven itself with its impressive speed and precision. Complete jaw digitization takes only 90 seconds. The scan of 12 individual stumps with the multiCase module takes 60 seconds, and sets new standards in the field of structured-light scanning.

Due to its very large measuring field, and in combination with the exocad dental CAD software, imes-core offers a complete solution for maximum productivity, which is perfectly and precisely suited for implant-supported work. With a precision of up to **4 µm (acc. to ISO 12836)**, structured-light projection ensures the required high precision. The STL open data format ensures

independence and flexibility. The new, fully automatic 3D calibration makes production of large-span, screw-retained implant restorations possible. In addition, the i3Dscan & i3Dscan 2.0 are able to digitalize craniofacial information from physical articulators in the correct position, thanks to the patented ScanFixators. The models, which were previously set in the articulator with face-bow, can be directly applied in the scanner, using the magnetic split plates corresponding to the system. The scanning software automatically combines the obtained measurement data, and provides it with the information of the patient-specific condylar positions.



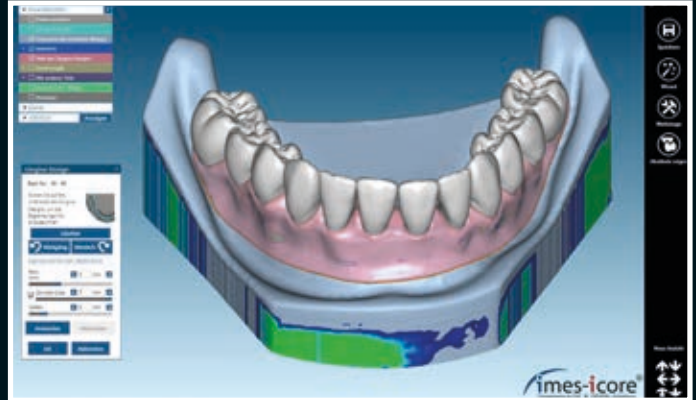
## Technical Highlights

- extremely fast, fully automatic scanner
- structured-light / projector technology
- newly developed large measuring field
- possibility of using full-fledged articulated models, incl. articulator
- ideal for large-span, screw-fitted implant applications
- very short scanning and calculation times
- highly accurate results, thanks to automatic 3D calibration
- removable object holder
- **accuracy up to 4µm**
- output as a completely open data STL file

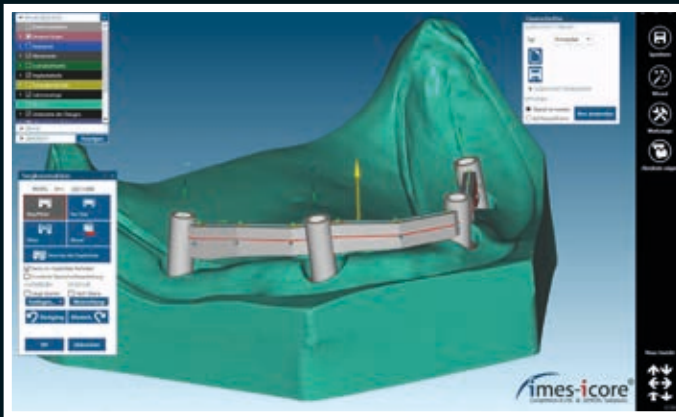
# exocad CAD software

The i3Dscan is fully supported in CAD applications by the exocad software, without limitations. In addition to standard applications such as crowns, bridges and telescopes, advanced features are also available, such as virtual articulators, screw-retained implant bridges / bars one-piece custom abutments, bite guards, etc. A further advantage of this combination is the complete open software platform, since neither the scanner or the exocad software require a license.

exocad as your dental CAD software is the ideal complement for our scanners. It is tailored precisely to the dental workflow for the construction of dental restorations. As a result, even inexperienced users will find easy access to digital dental technology; exocad was developed in close cooperation with experienced dental technicians and software specialists. The ergonomic and wizard-guided user interface can be easily adapted to the skill of the user. It is therefore popular with beginners, as well as among users already experienced with digital applications.



From designing simple caps, through construction of large-span, anatomically reduced bridge constructions, all the way to sophisticated implant restorations, exocad will easily and quickly guide you to the perfect result. By scanning a register, wax-up, or situation model, a basis for an optimal design is created. The position of articulated models is precisely transferred with the ScanFixator from the physical to the virtual articulator. Following the application of a face-bow, the patented process transfers the patient's exact condylar position to the CAD software.

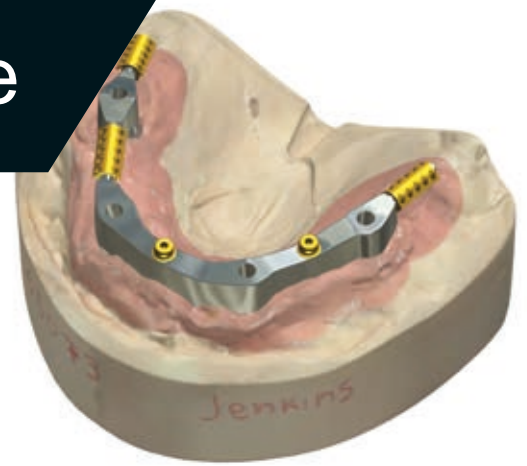


**exocad**  
GmbH

## Highlights

- all current indications and functions
- prefabricated standard crowns (prிடெнта®)
- photo-realistic presentation of the design in real time
- mirroring existing teeth in the ongoing design
- anatomical caps, crowns, bridges, telescopes, inlays/onlays/veneers and abutments
- vast implant system library free of charge (also for premilled abutments)
- extensive options for using full-fledged articulated models, incl. articulator
- Bite guards; optimal designs thanks to full-fledged virtual articulator
- one piece custom abutments, screw-retained implant bridges and implant brackets
- use of situation models and WaxUp constructions
- no licensing fees; hence no running costs

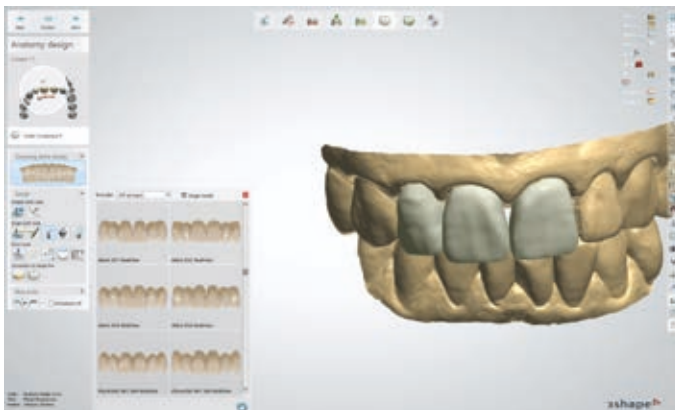
# 3shape CAD software



## 3shape Dental System

Its many years of experience in the field of dental scanning and CAD makes 3shape Dental System one of the most powerful CAD design systems in the world. 3shape creates a sophisticated and intuitive workflow combining 3D scanning and CAD design into an efficient workflow, all the way through to and including structured order management and useful communication tools.

In addition to standard applications like crown / bridge design, telescope crowns and inlay / onlay / veneer work, the user can also choose from a broad range of accessory modules like Abutment Designer, Removable Partial Design (model casting), implant bridges and bars, Model Builder module, splint module, etc.



A configuration of tailor-made materials, consisting of integrated CORiTEC materials as well as an open STL interface guarantee optimized and precise results, tailored to all imes-icore machine types. 3shape also offers a rich portfolio of desktop and intra-oral scanners for the users' selection to fit his needs and application fields. Unlimited software upgrades make it possible for the user to always have the latest technology and functionalities.

# 3shape

## Highlights:

- All current indications and functions
- Prefabricated standard crowns (pritidenta®)
- Photo-realistic presentation of the design in real time
- Intuitive workflow from the scanning to the CAD design process
- Mirroring existing teeth in the ongoing design
- Anatomical caps, crowns, bridges, telescopes, inlays/onlays/veneers and abutments
- Vast implant system library free of charge (also for premilled abutments)
- Extensive possibilities for using articulated models, incl. virtual articulator
- Bite guards with the help of the "3shape Splint Designer" module
- Vast implant system library free of charge (also for premilled abutments)
- One piece custom abutments, screw-retained implant bridges and implant brackets
- Use of situation models, double preparations and WaxUp constructions





# 3shape Dental scanner



## 3shape D2000

- 4 x 5 MP cameras, blue LED multiple lines
- Accuracy: 5  $\mu$ m (ISO)/ 8  $\mu$ m (implant bar)
- Scan duration for a stump: 15 sec.
- Scan duration for a complete dental arch: 20 sec.
- Color scanning of textures
- A separate stump scan is not necessary\*
- All-in-one scanning: Room for 2 models



## 3shape D1000

- 4 x 5 MP cameras, blue LED multiple lines
- Accuracy: 5  $\mu$ m (ISO)/ 8  $\mu$ m (implant bar)
- Scan duration for a stump: 15 sec.
- Scan duration for a complete dental arch: 20 sec.
- Color scanning of textures
- A separate stump scan is not necessary\*



## 3shape D750 / D850

- 2 x 1.3 MP cameras, blue LED (D750)
- 2 x 5 MP cameras, blue LED (D850)
- Accuracy: 10  $\mu$ m (ISO)/ 12  $\mu$ m (implant bar)
- Scan duration for a stump: 25 sec.
- Scan duration for a complete dental arch: 55 sec.
- Greater inside volume and scanning of multiple stumps



## 3shape E1 / E2 / E3

### 3shape E3:

- 2 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836/ implant) : 7  $\mu$ m / 10  $\mu$ m
- Scan speed (arch): 24 sec
- Scan speed (die): 18 sec
- Scan speed (full arch impression): 80 sec
- Texture: Color



## 3shape D900L

- 4 x 5 MP cameras, blue LED
- Accuracy: 7  $\mu$ m (ISO)/ 8  $\mu$ m (implant bar)
- Scan duration for a stump: 15 sec.
- Scan duration for a complete dental arch: 35 sec.
- Color scanning of textures
- Greater inside volume and scanning of multiple stumps



## 3shape D500

- 2 x 1.3 MP cameras, red laser
- Accuracy: 10  $\mu$ m (ISO)
- Scan duration for a stump: 35 sec.
- Scan duration for a complete dental arch: 90 sec.

\*An additional stump scan may be necessary for cases with restricted inter proximal distance between stump and adjacent teeth. All stumps must be trimmed and cut.

# Partner and Special Solutions



**RENISHAW**  
apply innovation™

Tactile measuring technology for implant retained bridge work and secondary constructions (telescope, etc.)



**Imetric**  
Swiss 3D Scanning Systems

High-precision measuring technology for implant work



**FOLLOW-ME!**  
TECHNOLOGY GROUP



Specialist for automated CAM workflow

## 3D printing technology

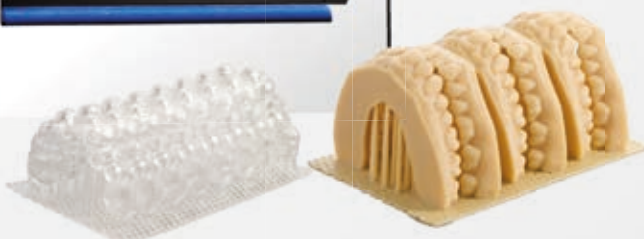
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## 3D laser melting technology

The "CORiTEC i3Dprint"

A 3D printer for dental applications for a large number of indications

- high resolution and surface quality
- DLP procedure (385 nm) with an installation area of 75x125x100 mm



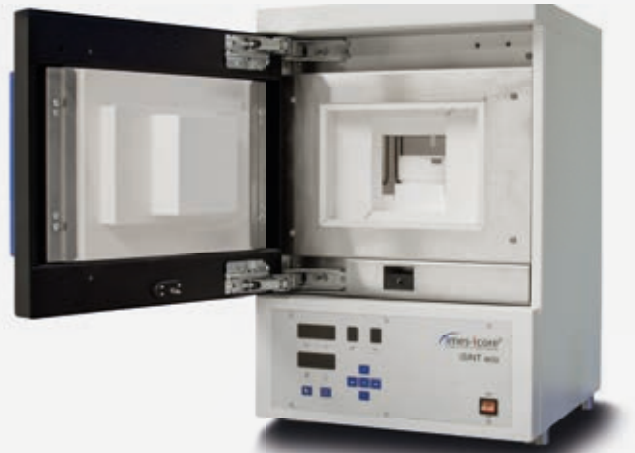
**Sint&Mill Solution**



**sisma**

# CORiTEC Sintering furnaces

## iSINT eco, iSINT HT-S and iSINT-HT



The **iSINT eco**, **iSINT HT** and **iSINT HT-S** sinter furnaces have been designed for daily sintering processes, thanks to their MoSi<sub>2</sub> heating elements. Due to the extremely even temperature distribution in the combustion chamber, the homogeneous shrinking of zirconium dioxide restorations is guaranteed. Thus, the best fit can be achieved, especially for large-span bridges and brackets.

The **iSINT eco** is known for its performance and provides high-quality engineering, matching accessories for high demands, at a fair price. Compact and with low space requirements, the **iSINT eco** sinter furnace nevertheless has sufficient capacity for a sinter bowl of Ø 100 mm for up to approximately 25 units. The door hinge can be mounted on the right or left.

The **CORiDRY** pre-drying device ensures rapid and uniform drying of the colored zirconium dioxide frameworks through air circulation. The device is CE-certified and easy to use.

### Advantages:

- No staining thanks to even drying
- Pre-drying in the sintering furnace is not necessary; this reduces the wear of heating elements in the sintering furnace.
- Two heating levels up to 70°C
- Retractable cable for space-saving stowage of the device
- CE-certified
- 230 V/50 Hz



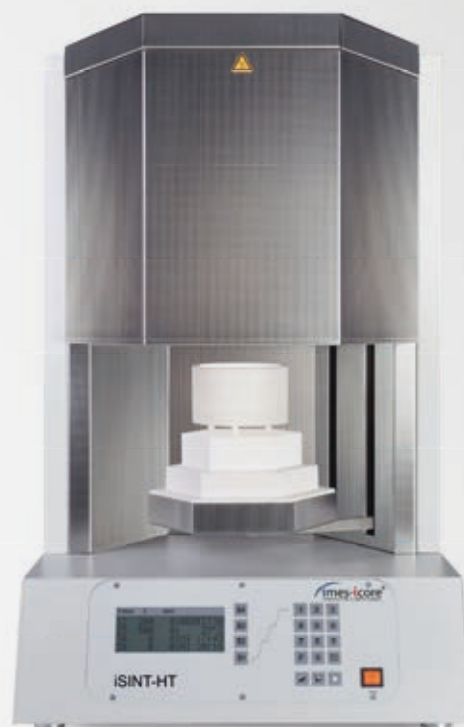




The **iSINT HT-S** is the ideal solution for all dental CAD-/CAM systems and materials for laboratories with smaller and medium workloads.

Freely adjustable programs simplify the handling, and the door lift makes easy loading of the sintering pad possible. The optimum heat distribution in the heating chamber, as well as adequate space capacity for a sintering bowl for up to 25 units, ensure a trouble-free operation.

In addition, the **iSINT HT-S Speed** variant makes it possible to shorten processing times depending on the materials used.



The **iSINT HT** offers a number of special functions for the specifications known from the **HT-S** series. These will support your medium to high workloads and are the ideal completion of your CAD/CAM systems in the laboratory and milling center.

Easy to use, they offer an even more convenient operation with an easy-to-read display and freely selectable sinter programs. The larger volume chamber for up to two large sinter bowls with Ø 120 mm makes sintering up to 60 units possible at the same time.

The **iSINT HT Speed** makes it possible to greatly shorten processing times, because of its quick heating rate, depending on the materials being used.

## Technical Specifications

• Scope of delivery - not available for delivery	iSINT eco	iSINT HT-S	iSINT HT-S speed	iSINT-HT	iSINT-HT speed
Number of heating elements	4	4	4	6	6
Display	7 segment	LED	LED	LCD display	LCD display
Number of program memories	9	9	9	25	25
Capacity	1 x 100	1 x 100	1 x 100	2 x 120	2 x 120
Max. hearing rate in °C/min	30	30	70	30	99
Power in W	1720	1720	2000	3100	3800
Lift function	-	•	•	•	•

# CORiTEC vacuum systems

The **iVAC silent** is able to convince with its compact design and high-quality technology, all at an affordable price. Equipped with a Teflon filter cartridge with automated cleaning and dust drawer with a volume of 8 liters. A volume flow of 160m³/hr makes it suitable for the CORiTEC 140i, 245i and 250i milling machines. The iVAC silent fits the imes-icore machine tables.



The **iVAC eco+** is the universal solution for all table machines made by imes-icore. Technical Highlights: Very powerful, with a flow rate of up to 260m³/hr, adjustable power, brushless motor for a long service life; large-volume filter with 25 liter filter bags and a downline HEPA filter, runs quietly, suitable for all imes-icore machine tables.

**iVAC2:** Industrial vacuum system with brushless motor, 260m³/hr volume flow, adjustable power, filter system with Teflon filter cartridge and large dust drawer, automatic self-cleaning feature for compressed air, suitable for all imes-icore table machines and machine tables.



**iVAC pro+:** Industrial vacuum system with brushless motor, 280m³/hr volume flow, adjustable power, filter system with Teflon filter cartridge and large dust drawer, automatic self-cleaning feature for compressed air, suitable for all imes-icore dental milling machines.

The **iVAC expert** is the appropriate vacuum system for the CORiTEC 650i and 650i Loader milling machines. High suction power with 1000m³/hr and 100 liter filter volume and HEPA filter. The brushless turbine guarantees a long service life.



The **iCompVAC** is a vacuum system with integrated oil-free compressor in a compact housing. The complete vacuum system is very suitable for the continuous operation of all imes-icore table machines. The compressor is not designed for continuous operation, it is suitable for operating the milling machines, e.g. at events, trade fairs or for a limited operation of the machines.

	iVAC silent	iVAC eco+	iVAC 2	iVAC pro+	iVAC expert	iCompVAC
<b>Volume flow</b>	160m³/hr	260m³/hr	260m³/hr	280m³/hr	1000m³/hr	160m³/hr
<b>Output</b>	480 W	1200 W	1300 W	1200 W	2200 W	1300 W
<b>Filter system</b>	Teflon filter cartridge automatic cleaning feature	HEPA filter	Teflon filter cartridge automatic cleaning feature	Teflon filter cartridge automatic cleaning feature	HEPA filter	Teflon filter cartridge automatic cleaning feature
<b>Filter volume</b>	8 liters	25 liters	20 liters	15 liters	100 liters	25 liters
<b>Width x depth x height</b>	245 x 500 x 440 mm	440 x 460 x 750 mm	440 x 460 x 750 mm	350 x 350 x 1000	600 x 770 x 1220 mm	470 x 640 x 880 mm
<b>Supply voltage</b>	115V / 230V	115V / 230V	115V / 230V	115V / 230V	115V / 230V	230V
<b>Suitable for</b>	CORiTEC one CORiTEC 140i CORiTEC 245i CORiTEC 250i	CORiTEC one CORiTEC 140i CORiTEC 245i CORiTEC 250i CORiTEC 350i CORiTEC 350i Loader	CORiTEC one CORiTEC 140i CORiTEC 245i CORiTEC 250i CORiTEC 350i CORiTEC 350i Loader	CORiTEC one CORiTEC 140i CORiTEC 245i CORiTEC 250i CORiTEC 350i CORiTEC 350i Loader CORiTEC 650i CORiTEC 650i Loader	CORiTEC 650i CORiTEC 650i Loader	CORiTEC 140i CORiTEC 245i CORiTEC 250i CORiTEC 350i CORiTEC 350i Loader

# CORiTEC Machine tables



## Machine table T1

Size: WxHxD: 770x930x790mm

Suitable for:

CORiTEC one  
CORiTEC 140i  
CORiTEC 250i/245i  
und CORiTEC 350i



## Machine table T2

Size: WxHxD: 1060x930x790mm

ideally suited for CORiTEC 350i Loader

The support table, especially designed for the machine's requirements offers sufficient space, with an appealing design and a sturdy build.

The strong rollers ensure optimum stability as well as easy movability of the entire system. Drawers, cable ducts, as well as a cabinet for the built-in iVAC2 and iVACeco+ (noise reduction) vacuum systems are already in the planning phase.



# Cutters & grinders 3mm shaft

Customized solutions optimized for the particular materials and equipment

3 mm shaft for:

one

140i

245i

250i

350i

650i

245i dry

250i dry

350i Loader

650i Loader

## CORiTEC PMMA I composite I wax



T31 - 3.00 I 3.0 mm end mill PMMA I plastics  
Article no. 526012 3003



T11 - 2.5 I 3.0 mm radius cutter PMMA I plastics  
Article no. 526004 2503



T12 - 1.0 I 3.0 mm radius cutter PMMA I plastics  
Article no. 526004 1003



T11 I T13 - 2.5 I 3.0 mm radius cutter Zr I PMMA I wWax  
Article no. 526016 2503



T12 I T14 - 1.0 I 3.0 mm radius cutter Zr I PMMA I wax  
Article no. 526016 1003



T15 - 0.6 I 3.0 mm radius cutter Zr I PMMA I wax, conical  
Article no. 526016 0603



T32 - 0.6 I 3.0 mm radius cutter Zr I PMMA I wax  
Article no. 526012 0603



T33 - 0.3 I 3.0 mm radius cutter Zr I PMMA I wax, conical  
Article no. 526016 0303

## CORiTEC Zr diamond-coated



T13 - 2.5 I 3.0 mm radius cutter Zr diamond  
Article no. 526013 2503



T14 - 1.0 I 3.0 mm radius cutter Zr diamond  
Article no. 526013 1003

All imes-icore milling tools are specifically designed and optimized for the different requirements of various materials. The dimensions and cut geometries have been precisely defined, in order to achieve optimum milling results, while ensuring long tool life. In combination with imes-icore milling machines, the high-quality milling tools always guarantee optimal process safety and maximum efficiency in the production of restorations.

## CORiTEC CoCrI Ti



T1 | T6 - 3.0 | 3.0 mm radius cutters, metal  
Article no. 526018 3003



T4 | T9 - 1.0 | 3.0 mm radius cutters, metal  
Article no. 526018 1003



T2 | T7 - 2.0 | 3.0 mm radius cutters, metal  
Article no. 526018 2003



T20 - 0.6 | 3.0 mm radius cutters, metal  
Article no. 526003 0603

## CORiTEC abrasive diamond pencil



T21 - 2.5 | 3.0 mm abrasive diamond pencil  
Article no. 526005 2503



T23 - 0.6 | 3.0 mm abrasive diamond pencil, conical  
Article no. 526005 0603



T22 - 1.0 | 3.0 mm abrasive diamond pencil  
Article no. 526005 1003

## CORiTEC Special (implant structures)



T3 | T8 | T16 - 1.5 | 3.0 mm radius cutters, universal  
Article no. 526000 1503



T19 - 0.5 | 3.0 mm end mill, universal  
Article no. 526001 0503



T5 | T10 | T17 - 1.5 | 3.0 mm end mill, universal, long  
Article no. 526001 1503

# Cutters & grinders 6mm shaft

Customized solutions optimized for the particular materials and equipment

6 mm shaft for:

one

140i

245i

250i

350i

650i

245i dry

250i dry

350i Loader

650i Loader

## CORiTEC PMMA | composite | wax



T30 - 4.0 | 6.0 mm end mill PMMA | plastics  
Article no. 526012 4006



T11 - 2.5 | 6.0 mm radius cutters PMMA | plastics  
Article no. 526004 2506c



T12 - 1.0 | 6.0 mm radius cutters PMMA | plastics  
Article no. 526004 1006c



T11 | T13 - 2.5 | 6.0 mm radius cutter Zr | PMMA | wWax  
Article no. 526019 2506



T12 | T14 - 1.0 | 6.0 mm radius cutter Zr | PMMA | wax  
Article no. 526019 1006



T15 - 0.6 | 6.0 mm radius cutter Zr | PMMA | wax, conical  
Article no. 526019 0606



T32 - 0.6 | 6.0 mm radius cutter Zr | PMMA | wax  
Article no. 526012 0606 (free size 12mm)



T33 - 0.3 | 6.0 mm radius cutters Zr | PMMA | wax, conical  
Article no. 526019 0306



T34 - 3.0 | 6.0 mm radius cutters, long  
Article no. 526012 3006



T35 - 2.0 | 6.0 mm radius cutters, long  
Article no. 526012 2006

## CORiTEC Diamond grinding pin



T21 - 2.5 | 6.0 mm abrasive diamond pencil  
Article no. 526005 2506



T22 - 1.0 | 6.0 mm abrasive diamond pencil  
Article no. 526005 1006



T23 - 0.6 | 6.0 mm abrasive diamond pencil, conical  
Article no. 526005 0606

## CORiTEC Zr diamond



T13 - 2.5 | 6.0 mm radius cutters Zr diamond  
Article no. 526013 2506



T14 - 1.0 | 6.0 mm radius cutters Zr diamond  
Article no. 526013 1006

## CORiTEC calibration



T98 - 2.5 | 6.0 mm SHAFT calibration  
Article no. 526024 2506



All imes-icore milling tools are specifically designed and optimized for the different requirements of various materials. The dimensions and cut geometries have been precisely defined, in order to achieve optimum milling results, while ensuring long tool life. In combination with imes-icore milling machines, the high-quality milling tools always guarantee optimal process safety and maximum efficiency in the production of restorations.

## CORiTEC CoCr I Ti



T26 - 3.0 I 6.0 mm radius cutters CoCr I Ti, long  
Article no. 526007 3006



T27 - 2.0 I 6.0 mm radius cutter CoCr I Ti, long  
Article no. 526007 2006



T29 - 1.0 I 6.0 mm radius cutter CoCr I Ti, long  
Article no. 526007 1006



T20 - 0.6 I 6.0 mm radius cutter CoCr I Ti, conical  
Article no. 526003 0606



T1 I T6 - 3.0 I 6.0 mm radius cutter CoCr I Ti, short  
Article no. 526011 3006



T2 I T7 - 2.0 I 6.0 mm radius cutter CoCr I Ti, short  
Article no. 526011 2006



T4 I T9 - 1.0 I 6.0 mm radius cutter CoCr I Ti, short  
Article no. 526011 1006

## CORiTEC Special (implant structures)



T80 - 2.5 I 6.0 mm CoCr I Ti  
Article no. 526023 2506



T81 - 1.5 I 6.0 mm CoCr I Ti  
Article no. 526023 1506



T90 I T91 - 2.0 I 6.0 mm CoCr I Ti  
Article no. 526002 2006



T3 I T8 - 1.5 I 6.0 mm radius cutter, short  
Article no. 526000 1506



T3 I T8 I T16 - 1.5 I 6.0 mm radius cutter, long  
Article no. 526022 1506



T5 I T10 - 1.5 I 6.0 mm end mill, 4-cutter, long  
Article no. 526021 1506



T5 I T10 - 1.5 I 6.0 mm end mill, 4-cutter, short  
Article no. 526002 1506



T17 - 1.5 I 6.0 mm end mill, 2-cutter, long  
Article no. 526001 1506



T18 - 1.5 I 6.0 mm radius cutter, universal  
Article no. 526000 0506



T19 - 0.5 I 6.0 mm end mill universal, 2-cutter  
Article no. 526001 0506



T85 I T86 - 2.0 I 6.0 mm CoCr I Ti TORUS  
Article no. 526025 2006

# Materials for CORiTEC machines

The imes-icore dental systems are completely open. But we do recommend to use genuine imes-icore materials, just to make sure you achieve the best results possible, and to ensure a long service life for your CAD/CAM systems. A wide range of materials and the continuous development of new applications and tools are always our priority at imes-icore.

## CORiTEC model Disc ivory (PU)

### Properties

- Very high profitability
- Very good machinability
- Stable edges
- Optimal handling of the pull-off force settings in CAM

### Range of indications

A special plastic blank adapted to requirements for dental model materials is made available.



DxH[mm] / colors	Article no.
98x15	525013 9815
98x20	525013 9820
98x25	525013 9825

## CORiTEC PMMA Splint Disc

PMMA (polymethyl methacrylate)

### Properties

- Without toxic or allergenic substances
- For long-term use in the oral cavity, suitable up to 12 months.
- CORiTEC splint is available in a transparent version and is used for the manufacturing of milled splints.

### Range of indications

- Bite guards
- Therapeutic splints
- Drilling templates
- Bite regulators



DxH[mm] / colors	Article no.
98x20	525005 98222

Further information under [www.imes-icore.de](http://www.imes-icore.de)

# CORiTEC medical PEEK (polyetheretherketone)

## Properties

- CORiTEC medical is a high-performance polymer.
- Excellent mechanical features
- Maximum biological compatibility
- Blanks are made of the perhaps most extensively medically documented PEEK Optima Juvora.
- Exceptional tribological properties (abrasive wear resistance)
- Virtually without wearing

## Range of indications

- For highly stressed primary and meso-structures, such as telescopic crowns, emergency crowns
- Clasp-retained structures
- Perfectly antagonist-friendly, crack-proof, and highly biocompatible material with bone-like mechanical properties, as a future replacement for non-precious restorations
- CORiTEC medical is available in its basic color (brown-beige)
- Caps
- Bars
- Tertiary structures



CORiTEC PEEK	98x16	525046 9816
CORiTEC PEEK	98x20	525046 9820
CORiTEC PEEK	98x25	525046 9825

# CORiTEC PMMA Disc (Polymethyl methacrylate)

## Properties

- Excellent mechanical features
- Very good cutting action
- Aesthetic color effect
- High biocompatibility
- Perfect for allergy sufferers
- Easy and quick mechanical processing in the lab
- Very high profitability

## Range of indications

Covers all dental restoration indications up to a width of 16 units.

### CORiTEC PMMA Discs DxH 98 mm x 20 mm

Color/type	Article no.
PMMA Disc A1	525005 98201
PMMA Disc A2	525005 98202
PMMA Disc A3	525005 98203
PMMA Disc A3.5	525005 9824
PMMA Disc A4	525005 9825
PMMA Disc B1	525005 98205
PMMA Disc B2	525005 9826
PMMA Disc B3	525005 9827
PMMA Disc B4	525005 9828
PMMA Disc C1	525005 9829

PMMA Disc C2	525005 98210
PMMA Disc C3	525005 98211
PMMA Disc C4	525005 98212
PMMA Disc D2	525005 98213
PMMA Disc D3	525005 98214
PMMA Disc D4	525005 98215
PMMA Disc BL1	525005 98216
PMMA Disc BL2	525005 98217
PMMA Disc BL3	525005 98218
PMMA Disc BL4	525005 98219





# CORiTEC Zr ht+ Disc

(Zirconium dioxide, highly translucent)

## Properties

- For highest demands on natural aesthetics
- Zirconium dioxide redefines translucency
- This is the first zirconium dioxide which is comparable to transparent lithium dioxide
- Zirconium dioxide with massively increased resistance in comparison to lithium dioxide

## Range of indications

Highly transparent zirconium dioxide for the production of full-contour partial and single crowns, or for ceramic veneering of partial and single crowns, max. 3-unit bridges in the incisor and molar area, inlays/onlays, and veneers as dentures.



DxH[mm] / colors	Article no.
10	525016 9810
12	525016 9812
14	525016 9814
16	525016 9816
18	525016 9818
20	525016 9820
25	525016 9825

# CORiTEC Zr transpa Disc (Zirconium dioxide translucent)

## Properties

- All the benefits of CORiTEC Zr Disc!
- High transparency
- Full biocompatibility
- Aging resistant
- Readily machinable

## Range of indications

Covers all indications for dental restorations of up to 16 units.

DxH[mm] / colors	Article no.
98 x 10	525010 9810
98 x 12	525010 9812
98 x 14	525010 9814
98 x 16	525010 9816
98 x 18	525010 9818
98 x 20	525010 9820
98 x 25	525010 9825

# CORiTEC Zr Disc

(zirconium dioxide)

## Properties

- All-ceramic framework material, which will meet highest aesthetic demands
- Broad range of indications
- Excellent mechanical properties and unmatched strength values
- Readily machinable
- Perfect fit of all restorations, including long-span bridges
- Full biocompatibility
- Aging resistant

## Range of indications

Covers all dental restoration indications up to a width of 16 units.



DxH[mm] / colors	Article no.
98x10	525007 9810
98x12	525007 9812
98x14	525007 9814
98x16	525007 9816
98x18	525007 9818
98x20	525007 9820
98x25	525007 9825

# CORiTEC Zr transpa Disc

(Zirconium dioxide pre-colored translucent)

light, medium, intense, low-chromatic, high-chromatic

## Properties

- Pre-colored, highly-translucent material
- Affordable all-ceramic framework material, which will meet high aesthetic demands
- For a broad range of indications
- Outstanding mechanical features and very good strength values
- Perfect fit of all restorations
- Full biocompatibility
- Aging resistant



## Range of indications

Covers all indications for dental restorations of up to 16 units.  
Ideally suited for monolithic restorations.

Type/color	DxH (mm)	Item number	Zr transpa intense	98x18	525010 981803
Zr transpa light	98x10	525010 981001	Zr transpa intense	98x20	525010 982003
Zr transpa light	98x14	525010 981401	Zr transpa intense	98x25	525010 982503
Zr transpa light	98x18	525010 981801	Zr transpa low chromatic	98x10	525010 981004
Zr transpa light	98x20	525010 982001	Zr transpa low chromatic	98x14	525010 981404
Zr transpa light	98x25	525010 982501	Zr transpa low chromatic	98x18	525010 981804
Zr transpa medium	98x10	525010 981002	Zr transpa low chromatic	98x20	525010 982004
Zr transpa medium	98x14	525010 981402	Zr transpa low chromatic	98x25	525010 982504
Zr transpa medium	98x18	525010 981802	Zr transpa high chromatic	98x10	525010 981005
Zr transpa medium	98x20	525010 982002	Zr transpa high chromatic	98x14	525010 981405
Zr transpa medium	98x25	525010 982502	Zr transpa high chromatic	98x18	525010 981805
Zr transpa intense	98x10	525010 981003	Zr transpa high chromatic	98x20	525010 982005
Zr transpa intense	98x14	525010 981403	Zr transpa high chromatic	98x25	525010 982505

# CORiTEC Wax Disc

(wax, gray)

## Properties

- Very good cutting action
- Excellent processing characteristics, also in conjunction with modeling wax (lost mold)
- Residue-free burning for casting technology
- No swelling
- Speed capable
- Gray color for optimal contrast
- Very high profitability

## Range of indications

CORiTEC wax disc is not intended for oral use. The material can be used to produce structures for crown and bridge models. These models can be used as lost molds in the casting technology.



DxH[mm] / colors	Article no.
98x18	525001 8418
98x20	525001 8420

# CORiTEC CoCr Disc

## Non-precious alloy

### Properties

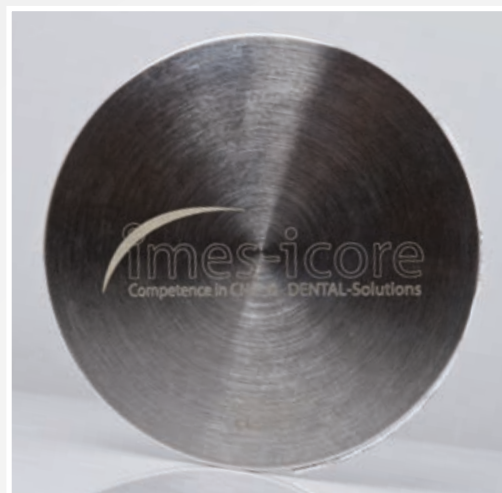
- Outstanding mechanical features
- Very good thermal properties
- Perfect fit of all restorations, including long-span bridges
- Very good biocompatibility
- High corrosion resistance
- Excellent milling quality

### Range of indications

- Single caps
- Single crowns
- Bridges up to 16 units, full bridges, and PFM technology
- Cone and telescopic technology
- Primary and secondary components
- Implant constructions
- Adhesive bridges

### Chemical composition

Co	Cr	W	Si	Mn, Fe, C
~62,00 %	~28,00%	~8,45 %	~1,65 %	< 0,5 %



DxH[mm] / colors	Article no.
98x8 mm	525006 9808
98x10 mm	525006 9810
98x12 mm	525006 9812
98x15 mm	525006 9815
98x18 mm	525006 9818

# CORiTEC Mo Disc

## Non-precious alloy

### Properties

- Outstanding mechanical features
- Very good thermal properties
- Perfect fit of all restorations, including long-span bridges
- Very good biocompatibility
- High corrosion resistance
- Excellent milling quality

### Range of indications

- Single caps
- Single crowns
- Bridges up to 16 units, full bridges, and PFM technology
- Cone and telescopic technology
- Primary and secondary components
- Implant constructions
- Adhesive bridges

### Chemical composition

Co	Cr	Mo	C, Si, Nb, Mn, Fe
65,0 %	~28,0 %	~5 %	< 1,0 %



DxH[mm] / colors	Article no.
98x10 mm	525017 9810
98x12 mm	525017 9812
98x15 mm	525017 9815
98x18 mm	525017 9818



# CORiTEC Ti Disc

grade 2, grade 4, grade 5

## Properties

- Excellent mechanical features
- Extremely high hardness and break resistance
- Perfect fit of all restorations, up to long-span bridges
- Good corrosion resistance
- Great milling characteristics!



## Indications range Grade 2 / Grade 4

- Single crowns in the incisor and molar area
- Spans of up to 3 units in the incisor area
- Spans of up to 3 units in the molar area
- Implant brackets

### Chemical composition Grade 2

Ti	Fe	O2	C	N	H
ca. 99,5 %	< 0,30 %	< 0,25 %	< 0,08 %	< 0,03 %	< 0,015 %

### Chemical composition Grade 4

Ti	Fe	O2	C	N	H
ca. 99,5 %	< 0,50 %	< 0,40 %	< 0,08 %	< 0,05 %	< 0,015 %

## Indications range Grade 5

- Implant supported structures  
(abutments and implant supported bridges / bars)

### Chemical composition Grade 5

Co	Al	V	other components
89,4 %	6,2 %	4 %	< 0,4 %

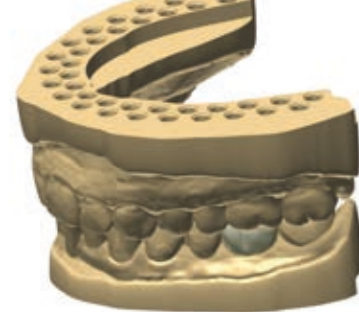
Grade	DxH[mm] / colors	Article no.
Grade 2	98x10 mm	525001 9810
Grade 2	98x15 mm	525001 9815
Grade 4	98x10 mm	525011 9810
Grade 4	98x15 mm	525011 9815
Grade 5	98x10 mm	525019 9810
Grade 5	98x12 mm	525019 9812
Grade 5	98x15 mm	525019 9815
Grade 5	98x18 mm	525019 9818

**More information on dental consumables  
are available online  
at [www.imes-icore.de](http://www.imes-icore.de)**

# Model Milling

(Baumann System

+Model with Removable Stump)



Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	3shape: Model Builder exocad: Model creator					



With the revolutionary Baumann model system, it is now possible for the first time to manufacture fully milled saw-cut models, analogous to the previously known (plastered) saw-cut models. The scan is done either directly with an intra-oral scanner, or alternatively as a classical impression scan. The digital model can then be generated in just a few steps with CAD software (3shape or exocad). The pull force of the individual segments can be set directly in the CAM to match your entire system.

The special model blanks also contribute to a complete system solution. It is an extremely well machinable plastic that offers a sufficient degree of accuracy, and very good edge stability.

The result is a classic, familiar saw-cut model Without the drawbacks of conventional model production.

Alternatively it is also possible to mill models with pluggable stumps. This will keep you, the user, fully flexible and able to meet all the requirements.

## Highlights:

- No impact of blood a. saliva
- Reproducible milling
- No impact of impression materials (contraction) a. plaster (expansion)
- No manual processing of the dental arch (gluing tillers, casting model plates)
- Pinned and cut
- Full-fledged saw model, fully articulable (incl. split-cast plate)
- Magnet system
- Optimized model material with high edge stability and degree of attention to detail
- Short milling times
- Reproducible results
- For 3shape a. exocad

# Milled implant models

(DIM analog of nt-trading)

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	3shape: Model Builder exocad: Model creator					



The basis for high-precision dental work is still the casting. The DIM (Digital Implant Model) was developed in order to create highly accurate models in the field of implant restorations. This makes it possible for the first time to enter the process chain of screw-retained implant work. Thereby, the model production is fast and easy. The position and orientation definition takes place via the scan bodies. This procedure can also be done intra-orally.

Implant analog to digital model production

- 2-piece implant analog
- Can be precisely positioned
- Position correction possible

## List of supported systems:

E-Nobel Biocare Replace Select <sup>®</sup> ™	3.5 NP/4.3 RP/5.0 WP/6.0
F-Nobel Biocare Nobel Active <sup>®</sup> ™	3.5/4.3/5.0
H-Biomet 3i Certain <sup>®</sup> ™	3.4/4.1/5.0
I-Biomet 3i Osseotite <sup>®</sup> ™	3.4/4.1/5.0
K-Nobel Biocare Branemark <sup>®</sup> ™	3.5/4.1/5.1
L-Straumann Bone Level <sup>®</sup> ™	3.3 NC/4.1/4.8 RC
N-Straumann Synocta <sup>®</sup> ™	3.5 NN/4.8 RN/6.5 WN
R-Zimmer Tapered Screw-Vent <sup>®</sup> ™	3.5/4.5/5.7
S-Astra Tech Osseospeed <sup>®</sup> ™	3.5/4.0/4.5/5.0
T-Dentsply-Friadent Frialit/Xive <sup>®</sup> ™	3.4/3.8/4.5/5.5
Camlog <sup>®</sup> ™	3.3/3.8/4.3/5.0/6.0



# PreFace® Abutment Holder

(Medentika)

## Highlights:

- Short manufacturing times due to simultaneous processing of six blanks in a single holder / operation
- Particularly time-saving operation as the abutment is tensioned with only one screw in the holder
- Maximum protection for precisely designed implant interface as the abutment is tensioned only on the front side

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Abutment Designer™ exocad: Implant Module						

# NT-Preform® Abutment Holder

(nt-trading)

## Highlights:

- Short manufacturing times due to simultaneous processing of six blanks in a single operation
- Consistent precision and reproducibility for all standard implant systems
- Short manufacturing times due to simultaneous processing of six blanks in a single operation
- No special tools required

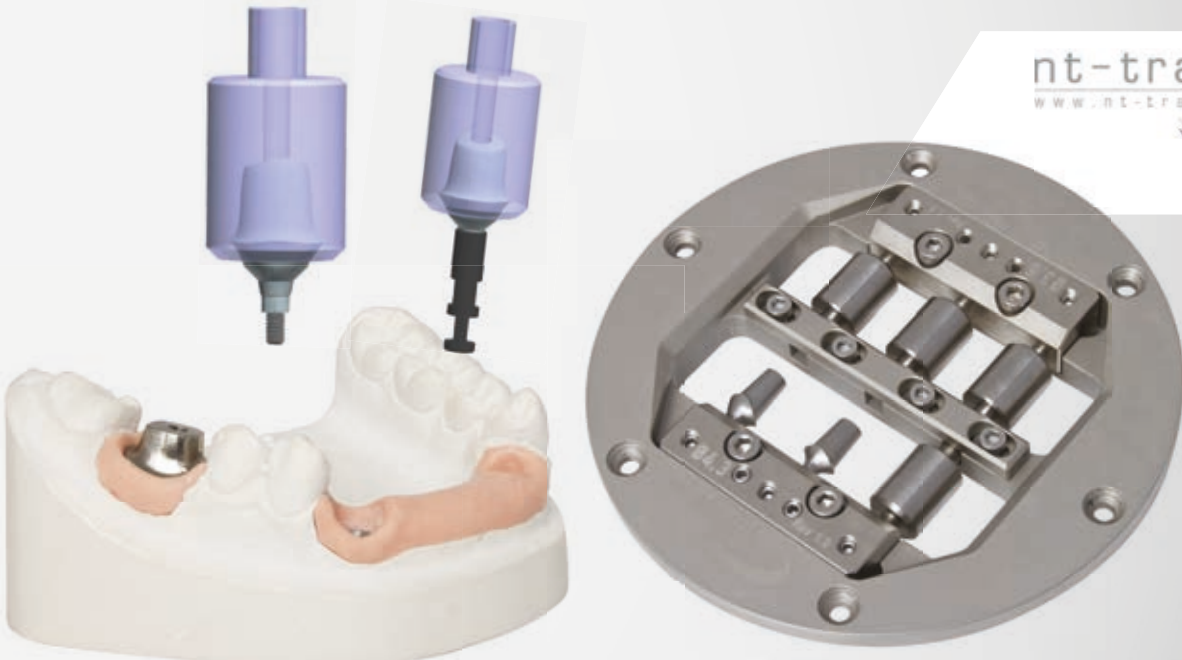
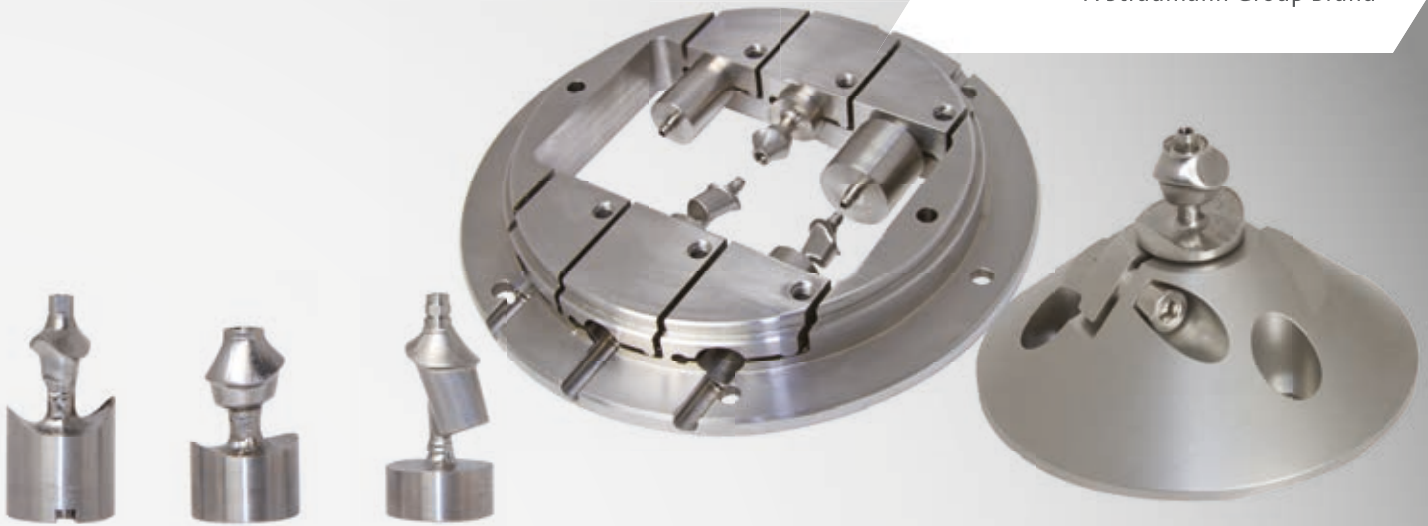
Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Abutment Designer™ exocad: Implant Module						

# Dess Abutment Holder

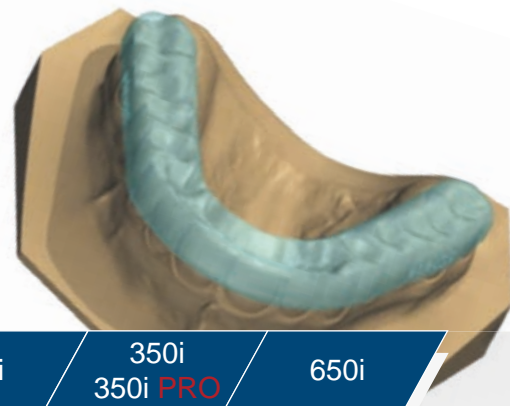
(Dess)

- Stable blank tension in the axial direction
- Short manufacturing times due to simultaneous processing of six blanks in a single operation
- Consistent precision and reproducibility for all standard implant systems

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Abutment Designer™ exocad: Implant Module						



# Therapeutic Splints



Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Splint Designer™ exocad: Bite splint module						



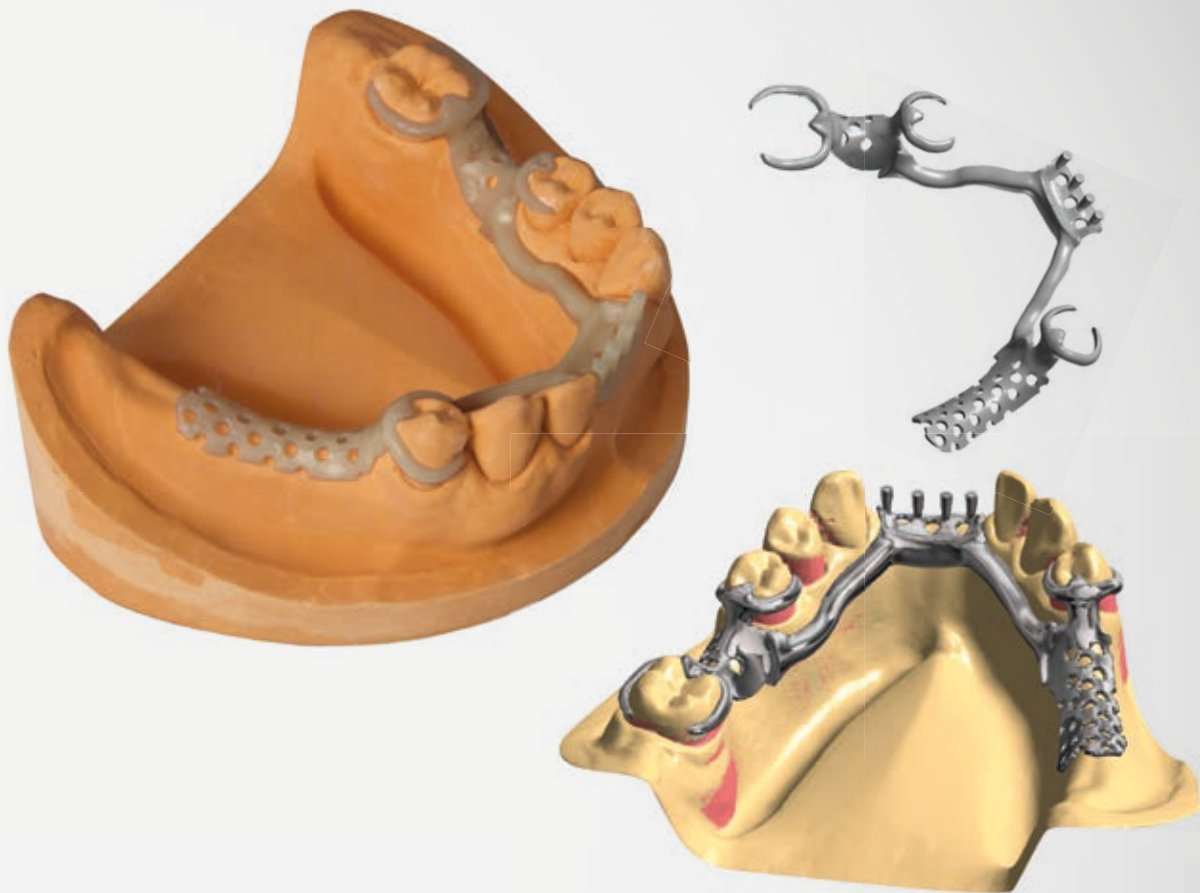
With the new CAD versions of the renowned manufacturers 3shape (Copenhagen, Denmark), and exocad (Darmstadt, Germany), for the first time it is possible to design therapeutic splints.

Depending on the software version at hand (contact us for information), concepts such as bite guards, bleaching trays etc. can be produced. In the future, options may be extended to other applications, such as orthodontic appliances and mouth guards.

The characteristic feature of the data generated by CAD is the fast and high-quality implementation of the designs. The preparation is intuitive, and adapted to the specific patient situation. A virtual articulator provides additional support. Important parameters, such as condylar path, Bennett angle, and ISS depending on the digitalized antagonists can be easily implemented.

# Milling of Model casts in PEEK and Wax

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Removable Partial Design ModelCast V4.0						



## Milled PEEK model casting?

**No problem with the end-to-end solution by imes-icore.**

The fully digital workflow ensures CAD modeling. The output is in an open file format (.stl). It is highly recommended to mill the restoration from PEEK plastic (polyetheretherketone).

The resulting dentures will also be non-allergenic and very light, in contrast to other existing materials, such as CoCr or titanium.

## Highlights:

- Non-allergenic
- Biocompatible
- Lightweight
- Metal-free
- Visually appealing



# priti<sup>®</sup>crown

(pritidenta<sup>®</sup>)



Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: Dental System Premium exocad: DentalCAD						



## priti<sup>®</sup>crown, the new aesthetic dimension for CAD/CAM: aesthetically pleasing, three-dimensional, functional

priti<sup>®</sup>crown is a real product innovation for modern dentistry. The prefabricated, three-dimensional crown blanks are currently unique in the dental arts. The product has the potential to set a new standard in the field of CAD/CAM-fabricated restorations.

For the first time in dentistry, a three-dimensional crown blank shaped along the natural lines is available for the CAD/CAM manufacturing of fully ceramic restorations.

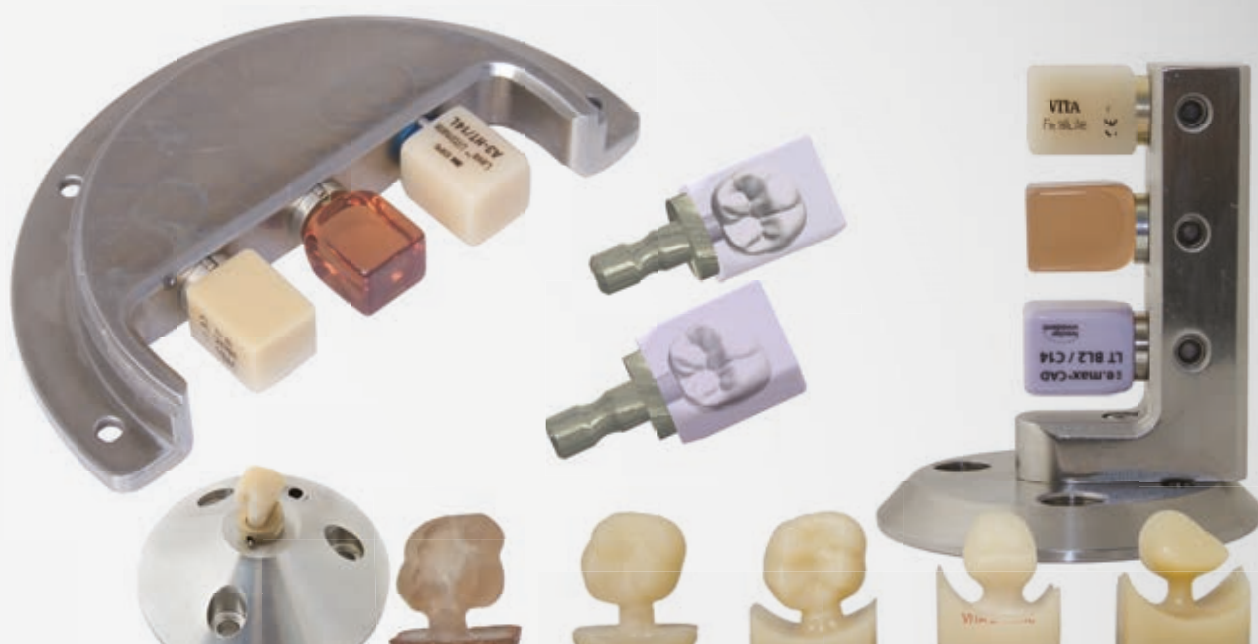
### Highlights:

- Anatomically aesthetic dentin/cutter color gradient
- Shape and function are modeled after the natural tooth
- The microstructure feldspar VITA Mark II has been tried and tested millions of times
- The portfolio for incisors and molars covers a wide range of shapes, colors and sizes - suitable for virtually any indication
- The functional and aesthetic design using CAD technology forms the basis for the grinding process
- Considerable time and cost savings compared to conventional methods
- Proposal, selection and adaptation of the perfect prefabricated crown from a tooth library integrated into the CAD software
- Individual completion through automatic adjustment of the CAM software
- The dental refinement of the CAM-fabricated restoration finalizes the priti<sup>®</sup>crown for esthetically pleasing dentures



# Grinding of block materials

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM: iCAM V4.7   iCAM V5			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD: 3shape: Dental System™ Premium exocad: DentalCAD						



## VITABLOCS®

imes-core has been cooperating with VITA since 2010. VITA is known as a supplier of high-quality products in the dental sector. Together with VITA, it was possible for us to process VITABLOCS® with imes-icore milling machines. The following products are currently available for processing:

- VITABLOCS® Mark II
- VITABLOCS® TriLux
- VITABLOCS® TriLux Forte
- VITABLOCS® RealLife
- VITA ENAMIC®
- VITA SUPRINITY®

# VITA

**Lava™ Ultimate** gives the expression of chairside productivity a whole new meaning. Thanks to the new Resin Nano Ceramic Technology (RNK), you can create solid, durable, and esthetically pleasing full-contour crowns in a 100 percent chairside workflow with Lava™ Ultimate.



## CELTRA™ DUO CAD

One block, two options. The CELTRA™ DUO lithium silicate, enhanced with zirconium dioxide, represents a whole new class of materials:

- One ceramic block for all single-tooth restorations (inlays, onlays and crowns)
- Significantly stronger than glass ceramics
- The same strength as lithium disilicate but significantly quicker

**DeguDent**  
A Dentsply Company

## Highlights

- Production of all materials in wet grinding (e.g. glass ceramics and lithium disilicate)
- Adapter also suitable for blocks of nano-composite
- Crowns, onlays, inlays, veneers, bridge frameworks, etc.

# Screw-retained implant-supported bridges and bars/one-piece abutments

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	3shape: Implant bars and bridges, Abutment Designer™ exocad: Bar module, Implant module					

## Overview of the Benefits

- Scan bodies and matching libraries of all standard systems
- maximum accuracy through newest scanner technologies and milling strategies
- Tension-free positioning even for large spans
- cost-saving special tools

The CORITEC system provides the preconditions to produce superstructures in combination with various implant systems. High accuracy of the machined operations is expected. The tasks are designed easily and fast using CAD, and passed to the CAM software. Tested and approved strategies allow you to mill implant bridges and bars (without anti-rotation protection), and abutment systems (with anti-rotation protection) from different materials (such as Zr, Ti, CoCr), depending on the required application.

## The following systems are currently supported:

### Implant systems (without anti-rotation protection)

Biomet 3i Osseotite® Certain®  
 Biomet 3i Osseotite®  
 Astratech OsseoSpeed®  
 Dentsply-Friadent Frialit/Xive®  
 Nobel Biocare Replace Nobel Active™  
 Nobel Biocare Brånemark®  
 Nobel Biocare Multi Unit  
 Nobel Biocare Replace Select®  
 Straumann BoneLevel®  
 Straumann SynOcta®  
 Zimmer Tapered ScrewVent®

### Abutment systems (with anti-rotation protection)

Biomet 3i Osseotite® Certain®  
 Astratech OsseoSpeed®  
 Dentsply-Friadent Frialit/Xive®  
 Nobel Biocare Replace Nobel Active™  
 Nobel Biocare Replace Select®  
 Straumann BoneLevel®  
 Zimmer Tapered ScrewVent®  
 Abutment systems (lock), internal hex  
 Biomet 3i Osseotite®  
 Nobel Biocare Brånemark®  
 Straumann SynOcta®

# BioHPP elegance prefabs

the first individual physiological hybrid abutment based on PEEK

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	3shape: Abutment Designer exocad: Implant module					



## BioHPP

BioHPP is a ceramic-enhanced, partially crystalline polyetheretherketone (PEEK). BioHPP, PEEK has been successfully applied in human medicine for 30 years in implantology (for 20 years as spine interbodies (disks) and hip joint prostheses). Especially the ductile properties of BioHPP results in outstanding physiological comfort: the “off-peak” property (shock absorption). Here, the stress impact on the implant is attenuated and distributed with time delay. There is a homogeneous composite of titanium and BioHPP, which is completely gap-free, and has the best mechanical properties.

### for long-term use

- BioHPP is the new benchmark for permanent dentures.

### anti-allergenic

- metal, oxide, and monomer-free
- no allergic reactions and gum discoloration known to date
- perfect solution for people with allergies

### light-weight/bone-like

- optimal biocompatibility and jaw integration
- no galvanic effects, no oxidation or metallic taste

### off-peak effect

- BioHPP can absorb compression and torsion caused by chewing and partially compensate for them
- this results in a paradontium-like effect, and an increase in wearing comfort.

### tooth-like thermal conductivity

- comfortable wear
- no differing perception for hot/cold food

### red/white esthetics

- the color of the white material matches the tooth substance and shows no dark gumlines in the event of resorption of the surrounding soft tissue.

### low abrasion

- BioHPP, as a monolithic restoration, protects the remaining dentition due to its low abrasion characteristics.

bredent group



# 3M ESPE Lava™ approved

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	3shape: Dental System exocad: dentalCAD					



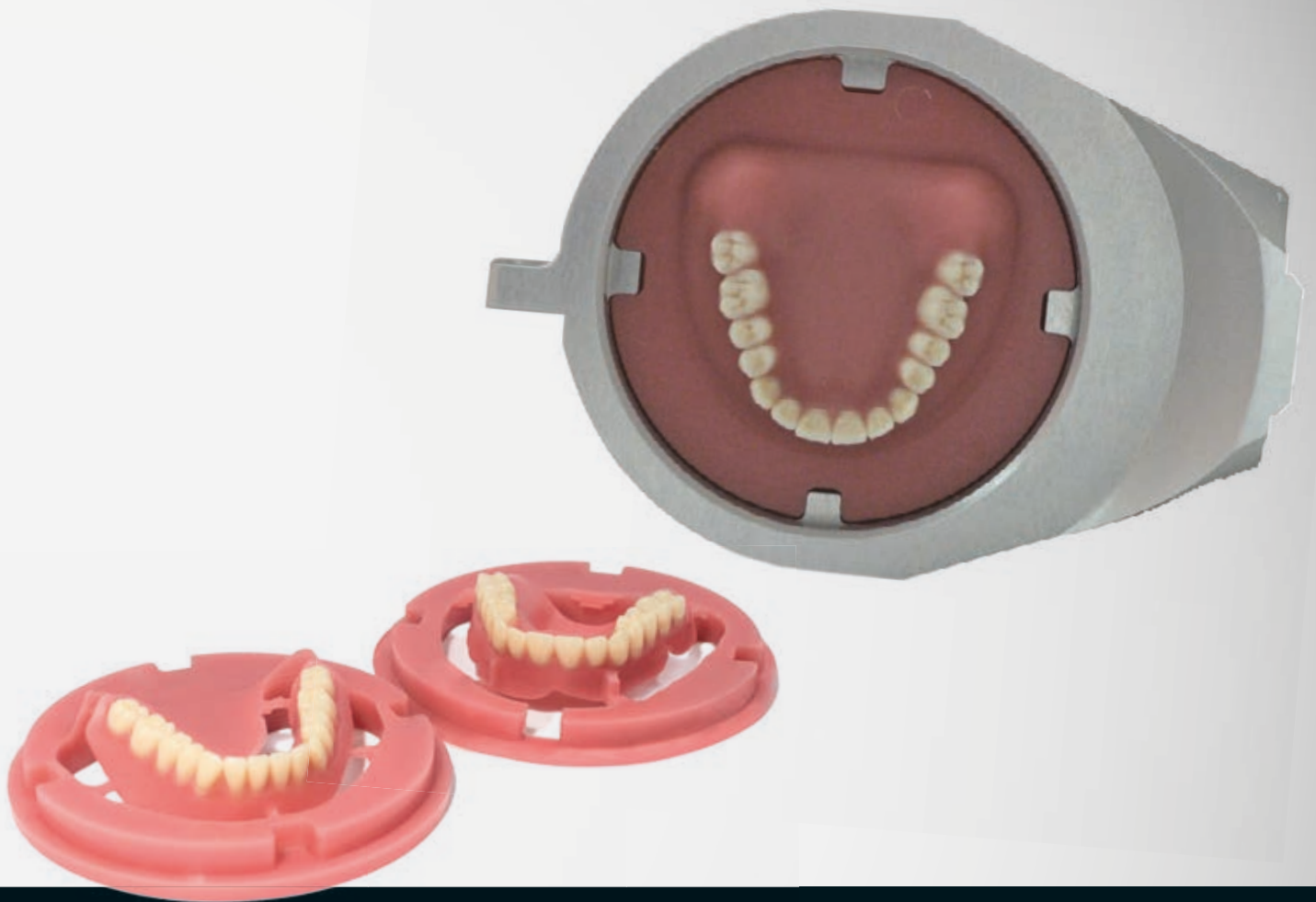
In cooperation with 3M ESPE, selected imes-icore machine types have been certified by 3M ESPE for processing 3M ESPE Lava™ material. The possibility of processing high-quality Lava™ frames offers an option to extend the range of materials using imes-icore equipment.

The machine models COR.TEC 245i, 350i, 650i „3M ESPE Lava™ have currently been certified as “Approved“. The various Lava™ materials can thus be produced with a special adapter. The CAM software “HyperDENT” by Follow-Me ensures a consistently high milling quality. The CAM software HyperDENT is also certified by 3M ESPE, and together with the milling machines, provides high process safety and highly accurate cutting results.

Take advantage of this great option to add value to your system with these high-quality brand-name products.

# Baltic Denture System by Merz Dental GmbH

Requirements	one	140i	245i	250i	350i 350i PRO	650i
CAM:	iCAM V4.7   iCAM V5 HyperDENT von Follow-Me		245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader
CAD:	Merz Dental GmbH: <sup>BD</sup> Creator					



The Baltic Denture System makes a comprehensive manufacturing process in the digital production of complete dentures possible. The Baltic Denture System consistently combines digital lab manufacturing of complete dentures with reduced process steps in the dentist office. In an innovative workflow, checkbite and esthetics analysis in the dental office are optimized, and the information obtained is safely transferred to the digital lab system. <sup>BD</sup>Load is the world's only "complete" denture blank.

The blank integrates function and esthetics. Merging individual patient data with the predefined function of the blank is carried out in the <sup>BD</sup>Creator design software. The CNC machining of <sup>BD</sup>Load ensures precise fit and high material quality of the manufactured complete denture.



# CORiSHADE smile

Coloring liquid for all Zr blanks:

CORiTEC Zr / CORiTEC Zr transpa / CORiTEC Zr ht+



## Advantages:

- uniformly colored caps
- natural colors
- short drying time
- water-based, without acids
- Penetration depth of approx. 2.5 - 3 mm
- easy to handle
- no opaquer, liner or similar necessary



CORiSHADE smile is used in particular for the coloring of translucent zirconium dioxide. Monolithic restorations from CORiTEC Zr transpa / CORiTEC Zr ht+ thus have no limits in terms of mechanical and optical properties. Moreover, all other zirconium dioxide blanks can also be colored.

For an aesthetic color effect, the fluids were perfectly matched to the CORiTEC Zr blanks. In order for the liquid to optimally penetrate into the depth of the material, the manufacturing process is already optimized in such a way that the liquid can infiltrate using the "saturation principle". The color intensity thus no longer depends on the duration of the immersion time.

## Dentin liquids:

The Dentin-Liquids cover the entire color space of the 16 VITA colors. The coloration can be achieved by dipping or brushing. Brushing can produce different color shades.

## Incisal liquids:

Most customizations can be achieved by applying the incisal colors. Certain areas can therefore be discreetly highlighted or shaded.

## Effect colors:

Moreover, highly concentrated colors: pink, gray and brown (each in dark or light) are available to create individual accents in the occlusal regions.

**Color according to VITA® Color Key**  
**Available in all 16 shades**



# IMPRESSIONS





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The information in this booklet has been compiled with great care, and checked for correctness. However, no liability shall be accepted for incomplete or incorrect information. We reserve the right to make changes that serve the purpose of technical progress.

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# Our Service

## The Way We Work

*"Development, production, sales and service in Germany"*

### Benefit from our expertise

From conception to implementation, from employee training to delivery of your system, you will be collaborating with our highly qualified staff. To ensure the high standards of our company, we inspect each and every manufactured machine for perfection and quality.

With over 350 employees in Germany and an ever-widening network of distributors, we guarantee fast and permanent availability of contact personnel and spare parts. In case of questions, please contact our experienced specialists. You can easily reach them via phone, or just as quickly online with our remote maintenance function. This way you are able to discuss and work on applications together: We can explain the operator interface, check machine parameters, run error diagnostics, and much more. Experience has shown that most questions you may have can be addressed in this way.

### Precision, not to be missed!

Over the last 15 years **imes-icore** has been working increasingly in the area of modern CAD/CAM solutions for the medical industry along with the continued manufacture of industrial machines. **imes-icore** is known as a specialist for CNC processing in this field as well. High-precision milling machines and CAD/CAM systems of the CORiTEC series are in great demand in dentistry today. Modular solutions for any requirement of a dental laboratory or milling center are available today, this has made it possible that more than 5000 dental systems have been installed successfully so far.

Whether for medical technology or industry - our aim to provide state of the art CNC systems, and successfully assist our customers in the future, remains our top priority.



Production Plant 1 in Eiterfeld