imes-icore dental CAD/CAM systems 2018

imes-icore®
Competence in CNC & DENTAL-Solutions

New generation of leading
CAD/CAM technologies
2018

imes-icore
quality
made in germany

NEW!
PRO SERIES

CORiTEC - leading technology

CORiTEC machine portfolio

The new generation of machines

	CORiTEC one	CORiTEC 140i	CORiTEC 245i dry touch	CORiTEC 245i touch	CORiTEC 250i dry touch	CORiTEC 250i touch	CORiTEC 350i	CORiTEC 350i PRO	CORiTEC 350i Loader	CORiTEC 350i Loader PRO	CORiTEC 650i	CORiTEC 650i Loader	CORiTEC 350i robot
Technical data:													
number of axes	4	4	4	4	5	5	5	5	5 +1	5 + 1	5	5 + 2	5 + 1
number of tool positions	6	6	12	12	12	12	20	20	20	20	32	32	20 (per machine)
$P_{max.}$ maximum spindle speed.	0,4 kW 80.000 U/min	0,4 kW 60.000 U/min	0,4 kW 60.000 U/min	0,4 kW 60.000 U/min	0,4 kW 60.000 U/min	0,4 kW 60.000 U/min	1 kW 60.000 U/min	1 kW 60.000 U/min	1 kW 60.000 U/min	1 kW 60.000 U/min	3,2 kW 50.000 U/min	3,2 kW 50.000 U/min	1 kW 60.000 U/min
axle drives	microstep drives	microstep drives	microstep drives	microstep drives	microstep drives	microstep drives	servo drives	AC-servo drives with absolute encoder	servo drives	AC-servo drives with absolute encoder	Linear-/ torque drive, absolute encoder	Linear-/ torque drive, absolute encoder	AC-servo drives with absolute encoder
blank change / number of blank holder	manual 1-3-times block material	manual 1-3-fach block material	manual 1-fach blank holder	manual 1-fach blank holder	manual 1-fach blank holder	manual 1-fach blank holder	manual 1-fach blank holder	manual 1-fach blank holder	automatic up to 12 blank holders	automatic up to 12 blank holders	manual 1-fach blank holder	automatic up to 16 blank holders	automatic up to 21 blank holder per machine
zero point clamping system	✗	✗	✗	✗	✗	✗	optional	optional	✓✓	✓✓	✓✓	✓✓	✓✓
dry processing	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
wet processing	✓✓	✓✓	✗	✓✓	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
blank processing 98 / 98,5mm	✗	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
block processing (CAD / CAM blocks)	✓✓	✓✓	✓**	✓✓	✓**	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
base structure	aluminium cast	aluminium/steel	granite/aluminium/steel	granite/aluminium/steel	granite/aluminium/steel	granite/aluminium/steel	aluminium/steel	polymer concrete	aluminium/steel	polymer concrete	granite	granite	polymer concrete
Materials													
zirconium oxide / aluminium oxide	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
PMMA / resins / PEEK /composite / wax	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
glass ceramics / hybrid ceramics	✓✓	✓✓	✗	✓✓	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
sintered metal	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
chrom cobalt	✗	✗	✗	✗	✗	✗	✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓
titanium	✓*	✓*	✗	✓*	✗	✓*	✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓
Applications													
copings /crowns/inlay/onlay	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
bridges up to 3 items	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
bridges up to 14 items	✗	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
telescopes	✗	✗	✓ (PEEK)	✓ (PEEK)	✓ (PEEK)	✓ (PEEK)	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
therapeutic splints (bite splints)	✗	✗	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
tooth models	✗	✗	✗	✗	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
model cast	✗	✗	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
abutments on titanium adhesive basis	✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
prefabricated abutments of Ti /CoCr	✓	✓	✗	✓	✗	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
one-piece abutments (Zr, resins)	✓	✓	✓	✓	✓	✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
one-piece abutments (CoCr, titanium)	✗	✗	✗	✗	✗	✗	✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓
bar structures / one-piece abutment bridges on implants	✗	✗	✗	✗	✗	✗	✓	✓✓	✓	✓✓	✓✓	✓✓	✓✓

Key ✓✓ ideally suitable ✓ suitable ✗ not available * prefab-abutments possible with adapter holder ** only dry processing

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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

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

imes-icore®
Competence in CNC & DENTAL-Solutions

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

pritidenta
DESS DENTAL SMART SOLUTIONS
smart optics
KULZER MITSUI CHEMICALS GROUP
worknc Dental
MEDENTIKA® A Straumann Group Brand
Imetric Swiss 3D Scanning Systems
TEAMZIEREIS
RENISHAW apply innovation™
3shape
VITA
FOLLOW-ME! TECHNOLOGY GROUP
CIM system
MERZ DENTAL
straumann simply doing more
bredent group
SCHOTT SYSTEME Hersteller für CAD/CAM + IT Software
3M ESPE
MANI® SCHÜTZ DENTAL
DeguDent A Dentsply Company
nt-trading www.nt-trading.com
exocad GmbH
sisma
Baumann Dental
DENTAURUM
Dental Direkt

and many more...

imes-icore
quality
Made in Germany

Plant in Eiterfeld

The name:

The abbreviation imes for “**i**ntegrated **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.

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

Competence in CNC & DENTAL solutions

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.

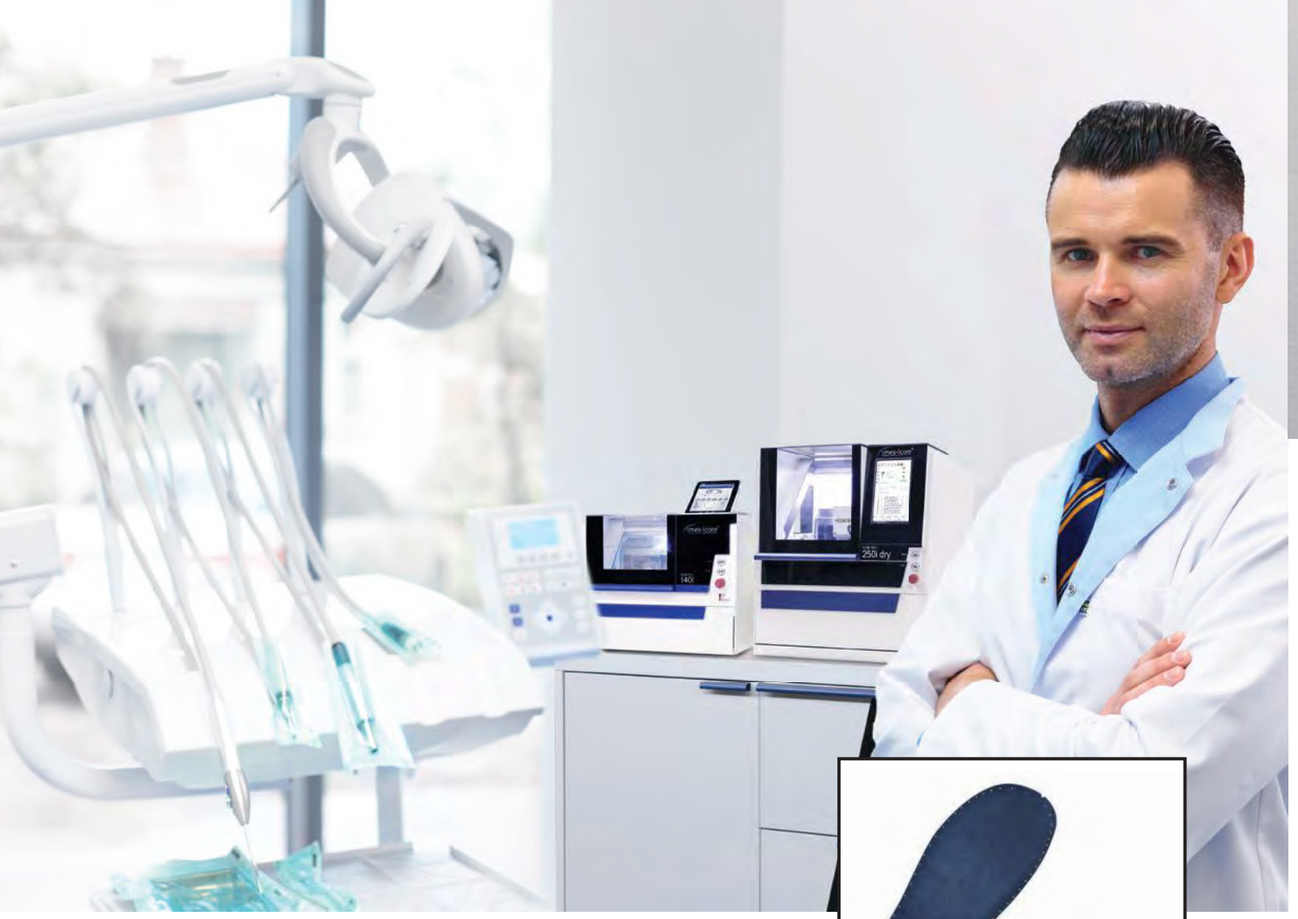
Cutting, separating material and assembling processes are offered in the global market in the form of “CNC systems from a single source”. The machine systems with processing sizes of approx. 150 mm x 50mm up to approx. 3000 mm x 6000 mm (other sizes available on request) find their international market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



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!

CNC machines fields of application

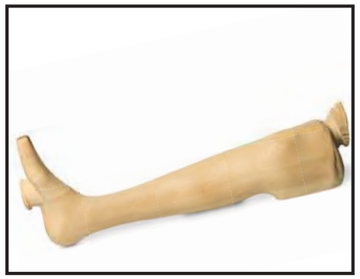
in sophisticated medical technology

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.

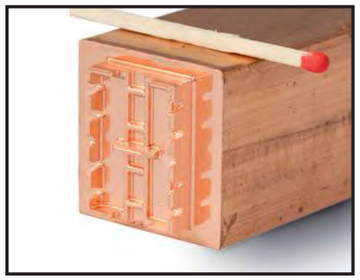
Our technicians and engineers are always working for you, and developing innovative technologies. Synergies arising from an expertise in the medical field and the manufacturing of industrial systems will benefit you as an **imes-icore** customer.

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

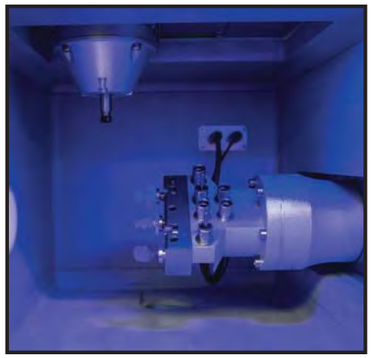
- **imes-icore**
- **quality**
- **Made in Germany**

CORiTEC one

The intelligent Practice Lab Solution 2.0

NEW!
SYSTEM

Specialized for sophisticated processing
of ceramic blocks
and premilled abutments



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) optional with integrated air compressor
- 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
optional air compressor integrated

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

Technical Specifications

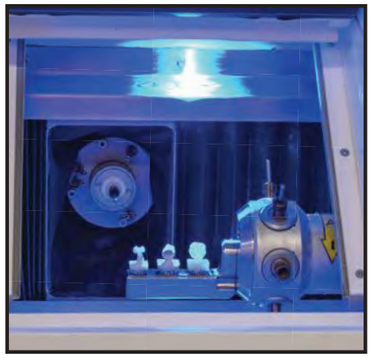
Number of axes and machining type	4-axis simultaneous machining
Max. setting angle of the rotary axis	360° processing possible
Wet and dry processing	Fully integrated
Spindle speed max. / Pmax~	80,000 rpm / 0.4 kW
Axle drives	Microstep motors
Tool fitting	3 mm shaft
Tool changer	6-fold
Workpiece changer	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

NEW!
TOUCH
VERSION

Specialized for processing of block materials



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

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
Spindle speed max. / 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

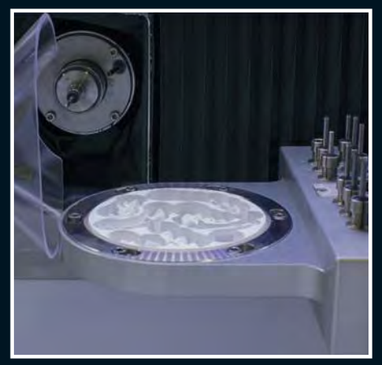
High-precision machining through integrated temperature compensation!

NEW! TOUCH VERSION

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 +-30°
- 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

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
Spindle speed max. / 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-axissystem

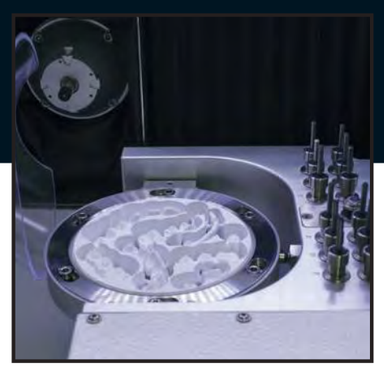
NEW! TOUCH VERSION

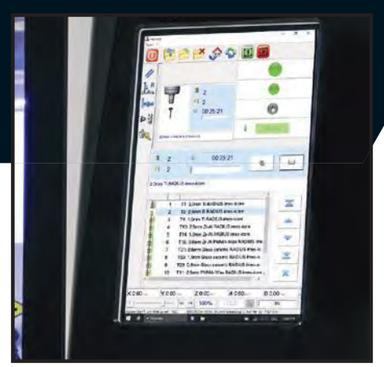
The CORiTEC 250i and CORiTEC 250i dry machine systems are the most widely used CAD/CAM systems for applications of zirconium dioxide, PMMA or wax. Thanks to the 5-axis technology, these machines can also produce complex dentures with diverging stumps and undercut areas without further rework. These systems 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 +-30° 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

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
Spindle speed max. / 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!

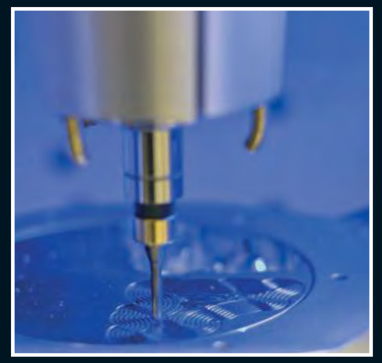
The new CORiTEC 350i processing system is an innovative machine concept, developed to meet any requirements of modern CAD/CAM processing. The processing of all relevant blank materials from CoCr, titanium, zirconium dioxide, plastics, block materials, and new future materials is thus possible with a 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 it's 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
Spindle speed max. / 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

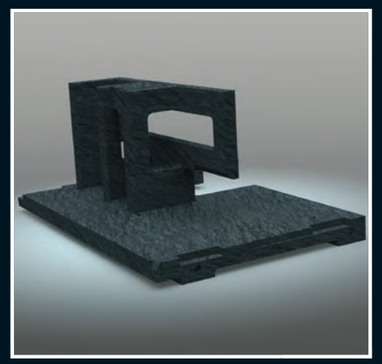
The professional solution for highest demands!

The developed 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 Adaper 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
- 15" touchscreen (PRO)
- zero point clamping system integrated
- processing of all important materials used in the dental industry, including metalworking
- axis tilt angle up to +/-30°
- 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
Spindle speed max. / Pmax~	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 PRO: Manual with zero point clamping system (2 Blankholders inclusive) 350i Loader PRO: 8-fold fully automatic (up to 12-fold optional)
Weight	350i PRO: 205 kg / 350i Loader PRO: 250 kg
Width x depth x height	350i PRO: 758x790x857 mm 350i Loader PRO: 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

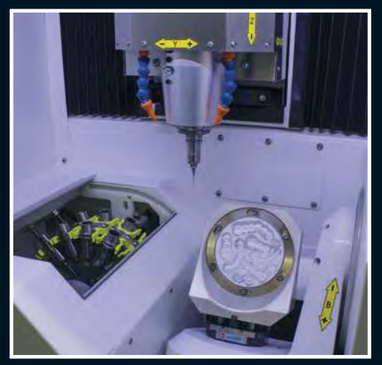
High End quality with
Future-oriented technology

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.

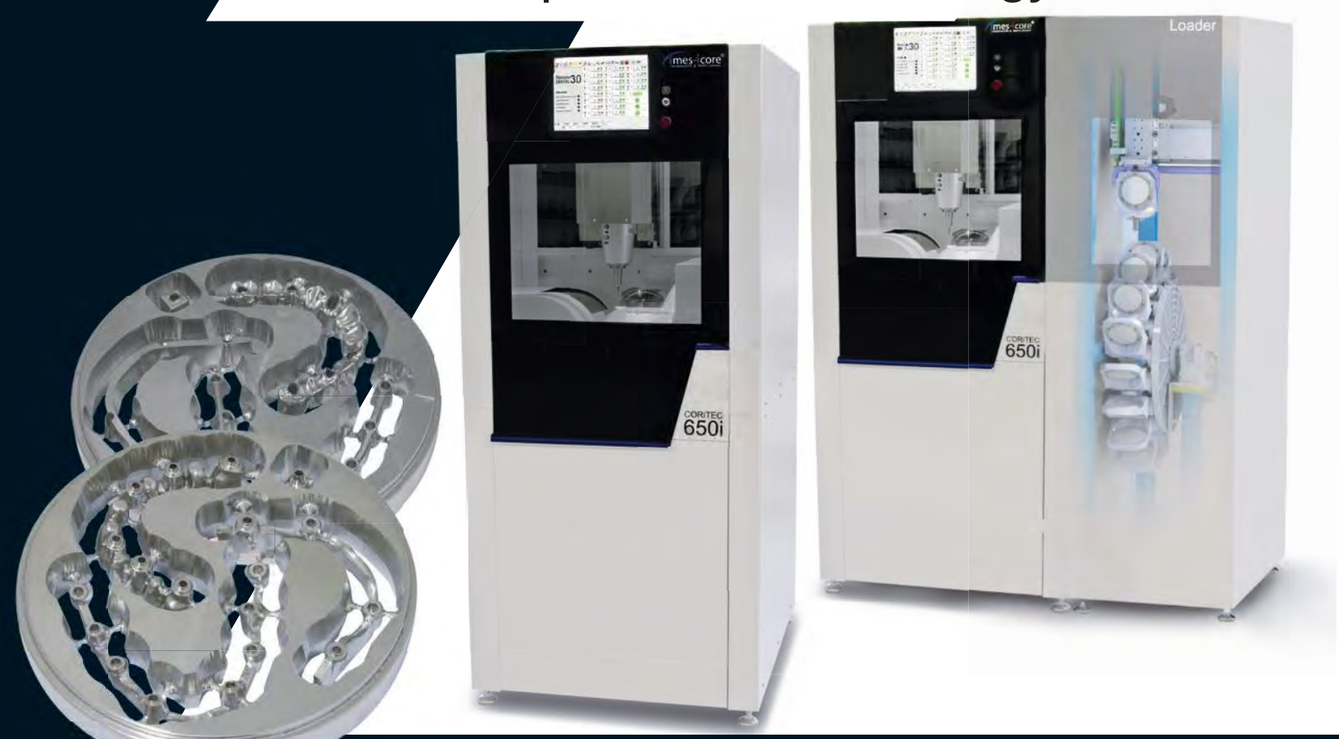
Technical Highlights

- 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
Spindle speed max. / Pmax~	50,000 rpm / 3.2 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

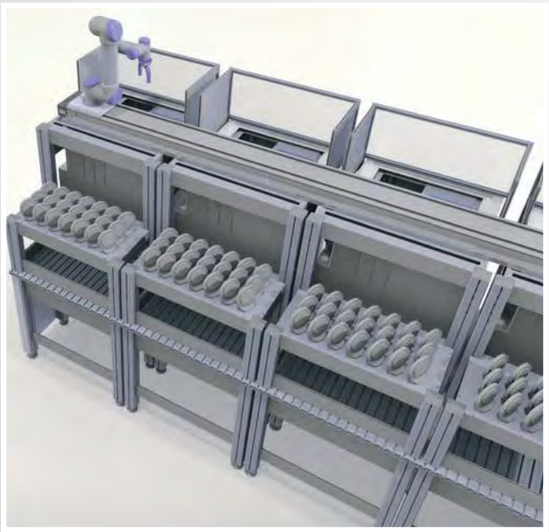
24 hours Production!

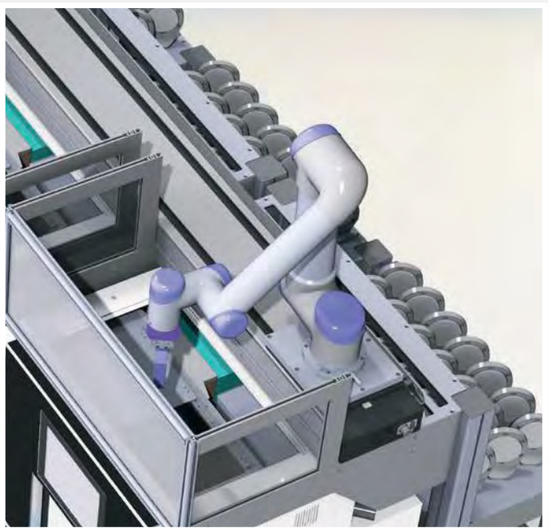
This high-end system for milling centers was built on the basis of the innovative CORiTEC 350i PRO. All installed components are designed for precision, durability and are state-of-the-art: Basic structure of polymer concrete, AC servo drives with absolute measuring systems in all axes, zero point (clamping) 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 labelling and separating the milled workpieces
- job management software for intelligent control of the production line





Technical Specifications

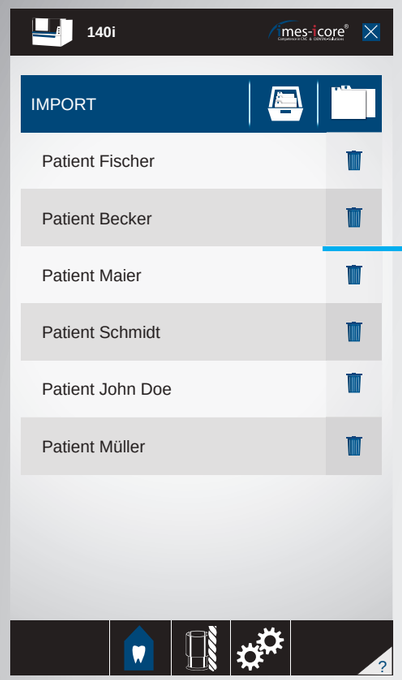
Number of axes and machining type	5-axis simultaneous, laser machining
Max. tilt angle for machining with 98 mm blank	A-axis +/- 30° / B-axis +/- 25°
Wet processing	integrated, several separate loops are possible
Spindle speed max. / Pmax~	60,000 rpm / 1 kW
Axle drives	AC servo motors with high-resolution 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

Retaining bracket system

CORiTEC smart control

smart control of machine software for the future

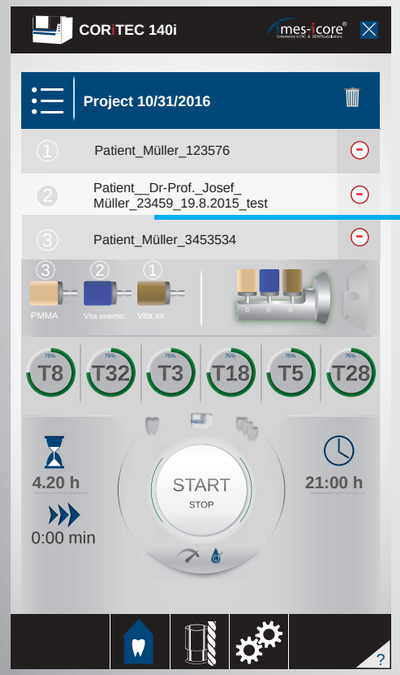
Available for:	one	140i	245i	250i	350i 350i PRO	650i
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader



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

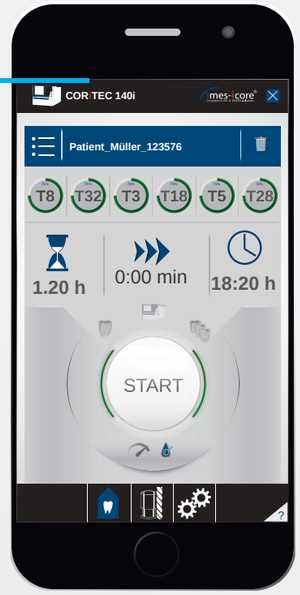
intuitive management of the milling jobs

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



Combining milling data for multi-space holders is possible.

Smartphone remote monitoring



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?!

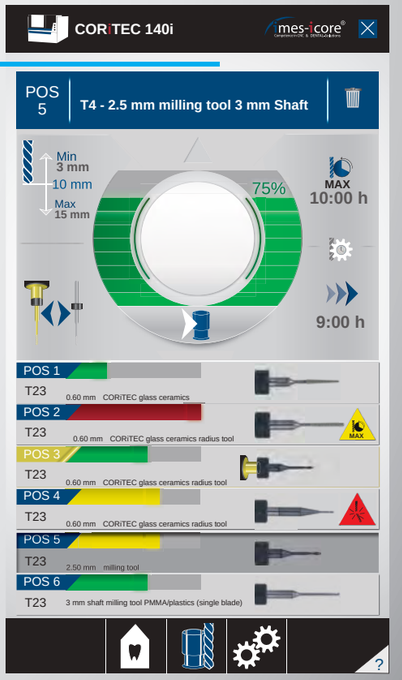
Features

- 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

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

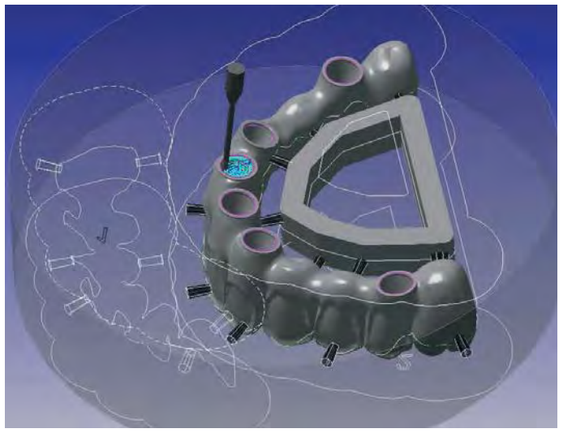
ideal tool management

clear settings range with all necessary functions



CORiTEC
iCAM V4.7

Ideal 5-axis
CAM software for beginners and pros!

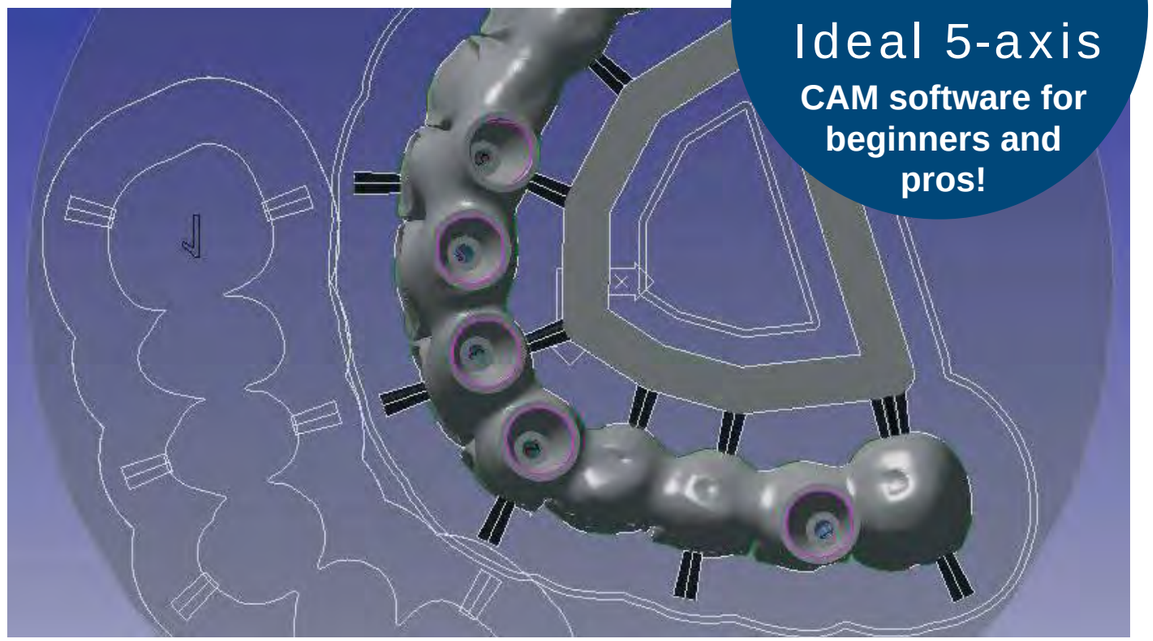


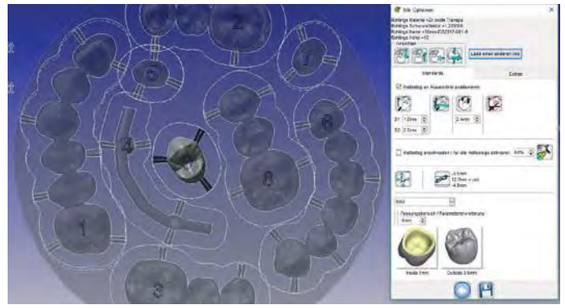
CORiTEC iCAM V4.7 is a renowned 5-axis Pro CAM system, which has matured from many years of experience. Simple, reliable and fast operation makes the iCAM V4.7 unique. Applied dental application software has been optimized for the automatic production of high-quality dental restorations.

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 prefabbed 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

Adapters / integrated systems:

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

Adjustment area / parameter expansion:

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.

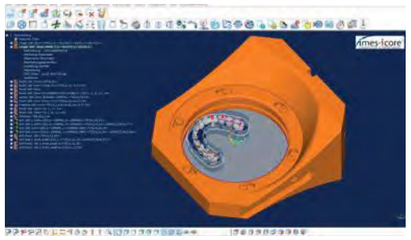
Video Help Function

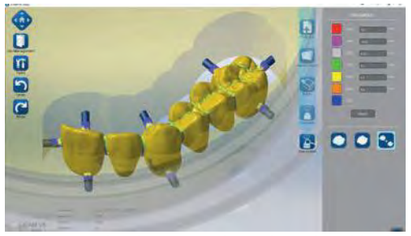
The built-in Video Help button is your direct support for any open questions, right there in each menu. A video preview is displayed in the subject areas.

CORiTEC
iCAM V5 smart

smart high-end CAM solution with perfect flexibility!

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





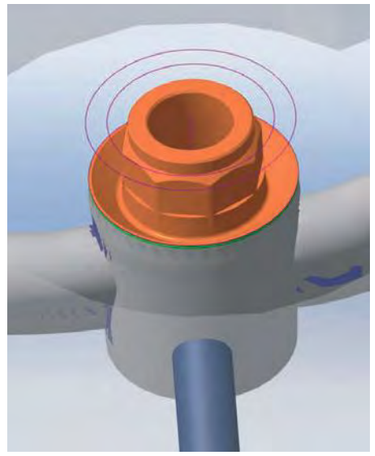
multi-core simultaneous detection of residual materials for automated strategy / milling optimization

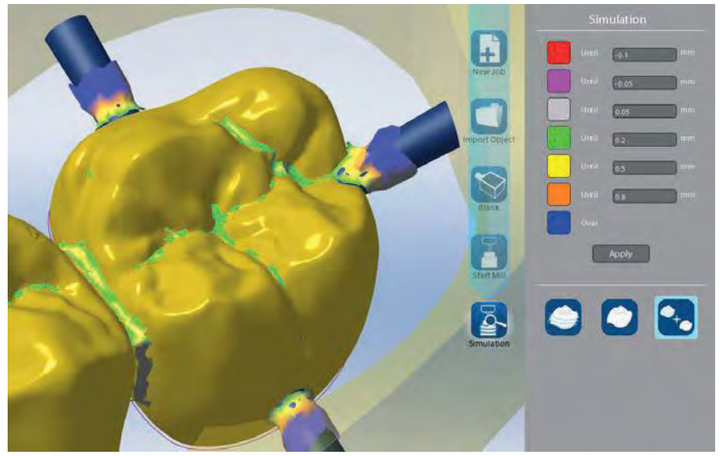
iCAM V5 smart is the high-end CAM solution by imes-icore GmbH. It enables high-precision calculation of 5-axis simultaneous milling data for excellent finish quality and fitting accuracy. Especially for hard materials such as glass ceramics, CoCr and titanium, accurate high-resolution milling data is 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.

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.

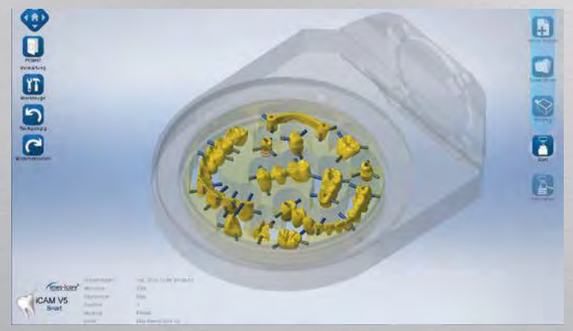
5-axis simultaneous milling





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)



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, Dentaurum, 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`.

Techniacl 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-icore 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

CORiTEC i3Dscan color

A productive, flexible and future-proof scanner

i3Dscan color has been especially designed for achieving a maximum of productivity in the daily laboratory work. From now on it is up to you to decide whether you wish to prepare a monochrome or color texture scan. Decide for yourself which scanning mode suits your working style best. Decide for yourself whether you wish to scan with an open or closed lid. Save considerable time with the fully automated Z-axis. The i3Dscan color automatically guides the object to be scanned into the measuring field. Screwing on spacer plates, which is known from other manufacturers as well as the earlier imes-icore models, is now dispensed with. Time which you can use far better elsewhere. Additionally the handling becomes signifi cantly easier. By using a touch display the most important entries can be made directly on the scanner.

In addition to time-savings, smart optics has also placed a special emphasis on user comfort. With its 180 degree opening the i3Dscan color offers considerable working space and the improved motor control allows smooth and fast motor travel. The large system plate of the scanner directly accommodates all established articulators. The slip-free rubber mat on the system plate provides for stable standing, which is slightly reminiscent of the table of a record player. You will also be delighted by the extended scope of delivery. A multiDie adapter as well as an impression holder for Triple Tray® impression scan are inclusive parts of the accessories.

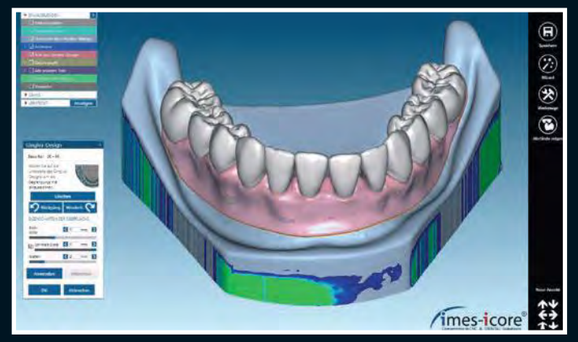
Technical Specifications

Dimension (B x H x T)	455 x 430 x 420 mm
Measuring field (X x Y x Z)	80 x 60 x 85 mm
Resolution	1,3 MP
Accuracy (acc to ISO 12836)	6 µm
Weight	23 kg
Power Supply Voltage	100 - 240 VAC, 50/60 Hz
Interfaces	1x USB

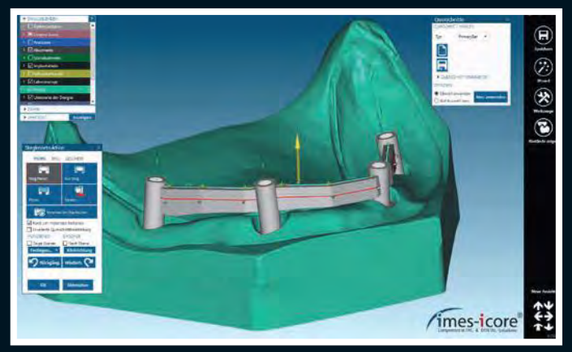
exocad CAD software

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.

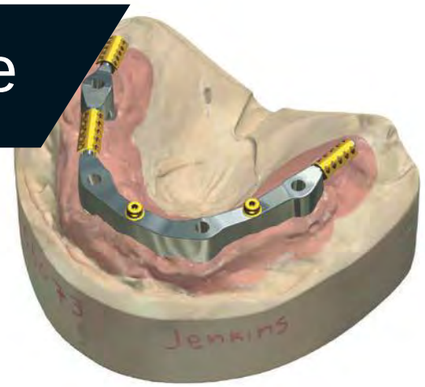


exocad GmbH

Highlights

- all current indications and functions
- prefabricated standard crowns (pritidenta®)
- 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 µm (ISO)/ 8 µm (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 E1 / E2 / E3

3shape E3:
- 2 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836/ implant) : 7 µm / 10 µm
- Scan speed (arch): 24 sec
- Scan speed (die): 18 sec
- Scan speed (full arch impression): 80 sec
- Texture: Color

3shape D1000

- 4 x 5 MP cameras, blue LED multiple lines
- Accuracy: 5 µm (ISO)/ 8 µm (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 D900L

- 4 x 5 MP cameras, blue LED
- Accuracy: 7 µm (ISO)/ 8 µm (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 D750 / D850

- 2 x 1.3 MP cameras, blue LED (D750)
- 2 x 5 MP cameras, blue LED (D850)
- Accuracy: 10 µm (ISO)/ 12 µm (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 D500

- 2 x 1.3 MP cameras, red laser
- Accuracy: 10 µm (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.

Best results in combination with all imes-icore machines

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 & 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

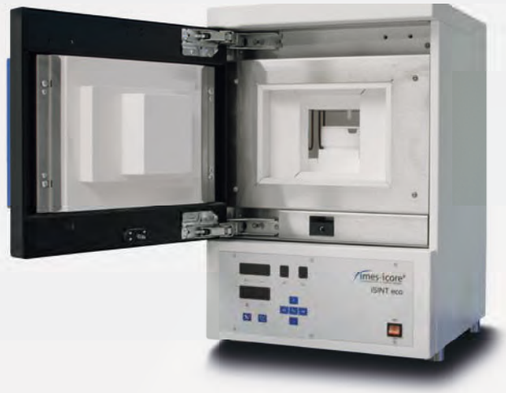
Sint&Mill Solution

sisma

CORiTEC Sintering furnaces

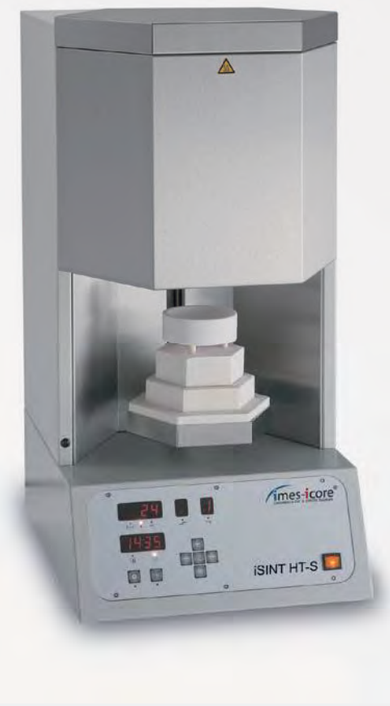
iSINT eco, iSINT HT-S and iSINT-HT

ime s-icore
made in Germany



The **iSINT eco**, **iSINT HT** and **iSINT HT-S** sinter furnaces have been designed for daily sintering processes, thanks to their MoSi2 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.

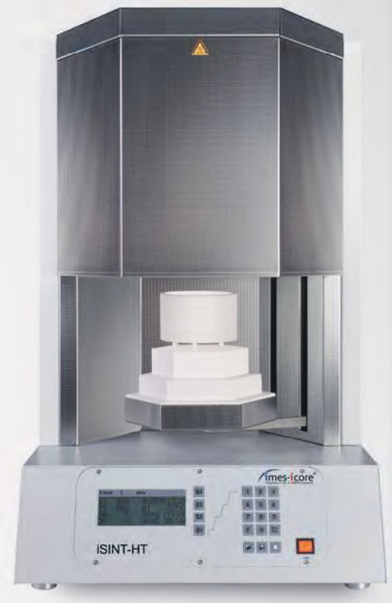
The **iSINT eco** is known for its performance and provides high-quality engineering, matching accessories for high demands, at a fair price. Compact and with low space requirements, the **iSINT eco** sinter furnace nevertheless has sufficient capacity for a sinter bowl of Ø 100 mm for up to approximately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



The **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.

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

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
Volume flow	160m³/hr	260m³/hr	260m³/hr	280m³/hr	1000m³/hr	160m³/hr
Output	480 W	1200 W	1300 W	1200 W	2200 W	1300 W
Filter system	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
Filter volume	8 liters	25 liters	20 liters	15 liters	100 liters	25 liters
Width x depth x height	245 x 500 x 440 mm	440 x 460 x 750 mm	440 x 460x 750 mm	350 x 350 x 1000	600 x 770 x 1220 mm	470 x 640 x 880 mm
Supply voltage	115V / 230V	115V / 230V	115V / 230V	115V / 230V	115V / 230V	230V
Suitable for	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

imes-icore
made in Germany

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 study 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.

For additional accessories see www.imes-icore.de

Cutters & grinders 3mm shaft

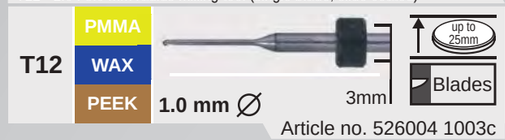
Customized solutions optimized for the particular materials and equipment

3 mm shaft for: one | 140i | 245i | 250i | 350i / 350i PRO | 650i | 245i dry | 250i dry | 350i Loader / 350i Loader PRO | 650i Loader

T1/ T6 - 3.0 I 3.0 mm radius milling tool

Article no. 526018 3003

T12 - 1.0 I 3.0 mm radius milling tool (single blade, slide coated)

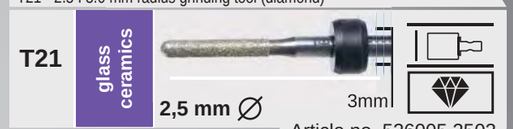


Article no. 526004 1003c

T15/ T42/ T52 - 0.6 I 3.0 mm radius milling tool (conical)

Article no. 526016 0603

T21 - 2.5 I 3.0 mm radius grinding tool (diamond)

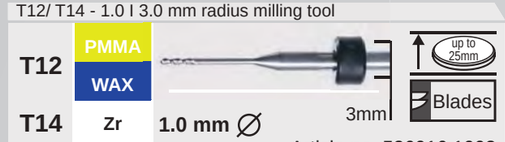


Article no. 526005 2503

T2/ T7 - 2.0 I 3.0 mm radius milling tool

Article no. 526018 2003

T12/ T14 - 1.0 I 3.0 mm radius milling tool

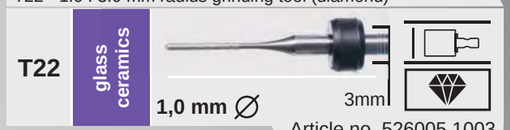


Article no. 526016 1003

T17 - 1.5 I 3.0 mm shaft milling tool universal

Article no. 526001 1503

T22 - 1.0 I 3.0 mm radius grinding tool (diamond)



Article no. 526005 1003

T3/ T8/ T16 - 1.5 I 3.0 mm radius milling tool universal

Article no. 526000 1503

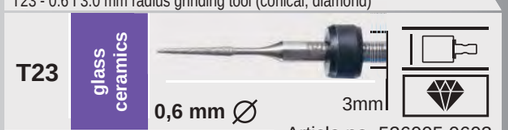
T13/ T40/ T50 - 2.5 I 3.0 mm radius milling tool (diamond coated)

Article no. 526013 2503

T19 - 0.5 I 3.0 mm shaft milling tool universal

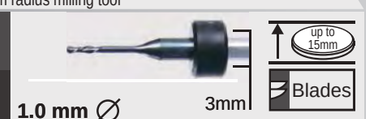
Article no. 526001 0503

T23 - 0.6 I 3.0 mm radius grinding tool (conical, diamond)



Article no. 526005 0603

T4/ T9 - 1.0 I 3.0 mm radius milling tool

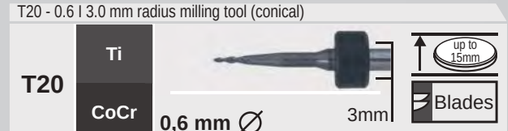


Article no. 526018 1003

T14/ T41/ T51 - 1.0 I 3.0 mm radius milling tool (diamond coated)

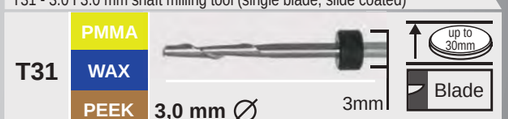
Article no. 526013 1003

T20 - 0.6 I 3.0 mm radius milling tool (conical)



Article no. 526003 0603

T31 - 3.0 I 3.0 mm shaft milling tool (single blade, slide coated)

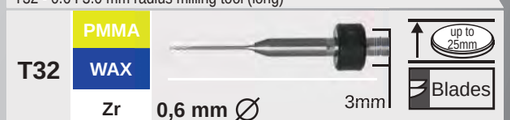


Article no. 526012 3003

T11 - 2.5 I 3.0 mm radius milling tool (single blade, slide coated)

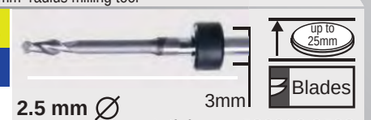
Article no. 526004 2503c

T32 - 0.6 I 3.0 mm radius milling tool (long)



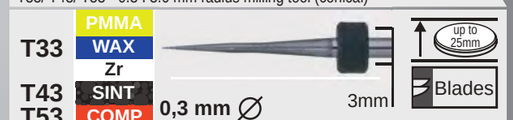
Article no. 526012 0603

T11/ T13 - 2.5 I 3.0 mm radius milling tool



Article no. 526016 2503

T33/ T43/ T53 - 0.3 I 3.0 mm radius milling tool (conical)



Article no. 526016 0303

Cutters & grinders 6mm shaft

Customized solutions optimized for the particular materials and equipment

6 mm shaft for: one | 140i | 245i | 250i | 350i / 350i PRO | 650i | 245i dry | 250i dry | 350i Loader / 350i Loader PRO | 650i Loader

T1/ T6 - 3.0 I 6.0 mm radius milling tool (short)

T1 / T6 | Ti / CoCr | 3.0 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526011 3006

T2/ T7 - 2.0 I 6.0 mm radius milling tool (short)

T2 / T7 | Ti / CoCr | 2.0 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526011 2006

T3/ T8 - 1.5 I 6.0 mm radius milling tool (short)

T3 / T8 | Ti / CoCr | 1.5 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526000 1506

T4/ T9 - 1.0 I 6.0 mm radius milling tool (short)

T4 / T9 | Ti / CoCr | 1.0 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526011 1006

T5/ T10 - 1.5 I 6.0 mm shaft milling tool (short, four blades)

T5 / T10 | Ti / CoCr | 1.5 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526002 1506

T11 - 2.5 I 6.0 mm radius milling tool (single blade, slide coated)

T11 | PMMA / WAX / PEEK | 2.5 mm ∅ | 6mm | up to 25mm | Blade

Article no. 526004 2506c

T11/ T13 - 2.5 I 6.0 mm radius milling tool

T11 / T13 | PMMA / WAX / Zr | 2.5 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526019 2506

T12 - 1.0 I 6.0 mm radius milling tool (single blade, slide coated)

T12 | PMMA / WAX / PEEK | 1.0 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526004 1006c

T12/ T14 - 1.0 I 6.0 mm radius milling tool

T12 / T14 | PMMA / WAX / Zr | 1.0 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526019 1006

T13/ T40/ T50 - 2.5 I 6.0 mm radius milling tool (diamond coated)

T13 / T40 / T50 | Zr / SINT / COMP | 2.5 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526013 2506

T14/ T41/ T51 - 1.0 I 6.0 mm radius milling tool (diamond coated)

T14 / T41 / T51 | Zr / SINT / COMP | 1.0 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526013 1006

T15/ T42/ T52 - 0.6 I 6.0 mm radius milling tool (conical)

T15 | PMMA / WAX | T42 / T52 | Zr / SINT / COMP | 0.6 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526019 0606

T16 - 1.5 I 6.0 mm radius milling tool universal

T16 | UNIVERSAL | 1.5 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526022 1506

T17 - 1.5 I 6.0 mm shaft milling tool

T17 | PMMA / WAX / Zr | 1.5 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526001 1506

T18 - 0.5 I 6.0 mm radius milling tool universal

T18 | UNIVERSAL | 0.5 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526000 0506

T19 - 0,5 I 6,0 mm shaft milling tool universal

T19 | UNIVERSAL | 0.5 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526001 0506

T20 - 0.6 I 6.0 mm radius milling tool (conical)

T20 | Ti / CoCr | 0.6 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526003 0606

T21 - 2.5 I 6.0 mm radius grinding tool (diamond)

T21 | glass ceramics | 2.5 mm ∅ | 6mm

Article no. 526005 2506

T22 - 1.0 I 6.0 mm radius grinding tool (diamond)

T22 | glass ceramics | 1.0 mm ∅ | 6mm

Article no. 526005 1006

T23 - 0.6 I 6.0 mm radius grinding tool (conical, diamond)

T23 | glass ceramics | 0.6 mm ∅ | 6mm

Article no. 526005 0606

T26 - 3.0 I 6.0 mm radius milling tool (long)

T26 | Ti / CoCr | 3.0 mm ∅ | 6mm | 16-20mm | Blades

Article no. 526007 3006

T27 - 2.0 I 6,0 mm radius milling tool (long)

T27 | Ti / CoCr | 2.0 mm ∅ | 6mm | 16-20mm | Blades

Article no. 526007 2006

T29 - 1.0 I 6.0 mm radius milling tool (long)

T29 | Ti / CoCr | 1,0 mm ∅ | 6mm | 16-20mm | Blades

Article no. 526007 1006

T30 - 4.0 I 6.0 mm shaft milling tool (single blade, slide coated)

T30 | PMMA / WAX / PEEK | 4.0 mm ∅ | 6mm | up to 30mm | Blades

Article no. 526012 4006

T32 - 0.6 I 6.0 mm radius milling tool (long)

T32 | PMMA / WAX / Zr | 0.6 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526012 0606

T33/ T43/ T53 - 0.3 I 6.0 mm radius milling tool (conical)

T33 | PMMA / WAX / Zr | T43 / T53 | SINT / COMP | 0.3 mm ∅ | 6mm | up to 25mm | Blades

Article no. 526019 0306

T34 - 3.0 I 6.0 mm radius milling tool (long)

T34 | PMMA / WAX | 3.0 mm ∅ | 6mm | up to 30mm | Blades

Article no. 526012 3006

T35 - 2.0 I 6.0 mm radius milling tool (long)

T35 | PMMA / WAX | 2.0 mm ∅ | 6mm | up to 30mm | Blades

Article no. 526012 2006

T62 - 2.0 I 6.0 mm torus milling tool (four blades)

T62 | UNIVERSAL | 2.0 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526025 2006

T67 - 2.0 I 6.0 mm shaft milling tool (four blades)

T67 | UNIVERSAL | 2.0 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526002 2006

T68 - 1.5 I 6.0 mm shaft milling tool (long, four blades)

T68 | UNIVERSAL | 1.5 mm ∅ | 6mm | up to 15mm | Blades

Article no. 526021 1506

T80 - 2.5 I 6.0 mm drilling tool

T80 | Ti / CoCr | 2.5 mm ∅ | 6mm | up to 20mm | Drill

Article no. 526023 2506

T81 - 1.5 I 6.0 mm drilling tool

T81 | Ti / CoCr | 1.5 mm ∅ | 6mm | up to 20mm | Drill

Article no. 526023 1506

T98 - 2.5 I 6.0 mm shaft milling tool (three blades)

T98 | CALIBR. | 2.5 mm ∅ | 6mm | Blades

Article no. 526024 2506

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

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)

NEW! - now with higher translucence

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 light	98x10	525010 981001
Zr transpa light	98x14	525010 981401
Zr transpa light	98x18	525010 981801
Zr transpa light	98x20	525010 982001
Zr transpa light	98x25	525010 982501
Zr transpa medium	98x10	525010 981002
Zr transpa medium	98x14	525010 981402
Zr transpa medium	98x18	525010 981802
Zr transpa medium	98x20	525010 982002
Zr transpa medium	98x25	525010 982502
Zr transpa intense	98x10	525010 981003
Zr transpa intense	98x14	525010 981403
Zr transpa intense	98x18	525010 981803
Zr transpa intense	98x20	525010 982003
Zr transpa intense	98x25	525010 982503
Zr transpa low chromatic	98x10	525010 981004
Zr transpa low chromatic	98x14	525010 981404
Zr transpa low chromatic	98x18	525010 981804
Zr transpa low chromatic	98x20	525010 982004
Zr transpa low chromatic	98x25	525010 982504
Zr transpa high chromatic	98x10	525010 981005
Zr transpa high chromatic	98x14	525010 981405
Zr transpa high chromatic	98x18	525010 981805
Zr transpa high chromatic	98x20	525010 982005
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

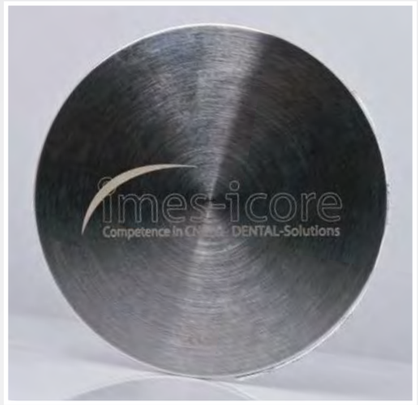
- Outstanding mechanical features
- Very good thermal properties
- Perfect fit of all restorations, including long-span bridges
- Very good biocompatibility
- High corrosion resistance
- Excellent milling quality

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

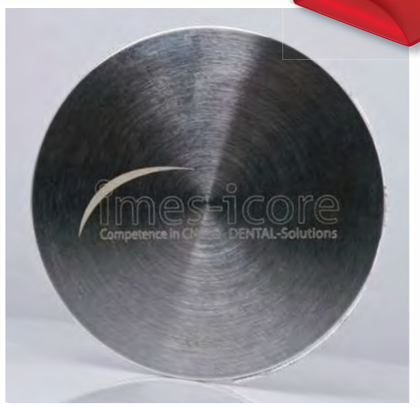
Range of indications

- 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 %

NEW



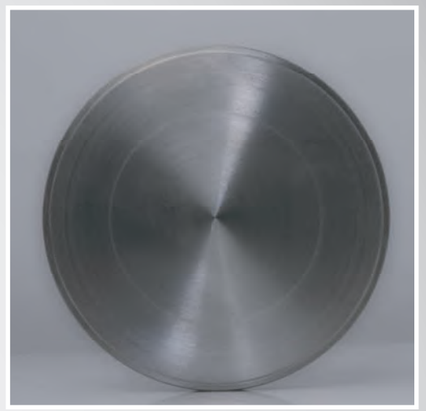
DxH[mm] / colors	Article no.
98x10 mm	525017 9810
98x12 mm	525017 9812
98x15 mm	525017 9815
98x18 mm	525017 9818

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 %

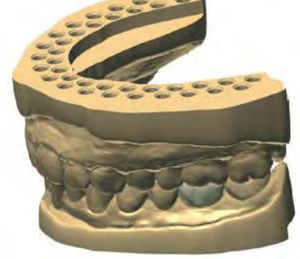
Grade	DxH[mm] / colors	Article no.
Grade 2	98x10 mm	525001 9810
Grade 2	98x15 mm	525001 9815
Grade 4	98x10 mm	525011 9810
Grade 4	98x15 mm	525011 9815
Grade 5	98x10 mm	525019 9810
Grade 5	98x12 mm	525019 9812
Grade 5	98x15 mm	525019 9815
Grade 5	98x18 mm	525019 9818

More information on dental consumables are available online

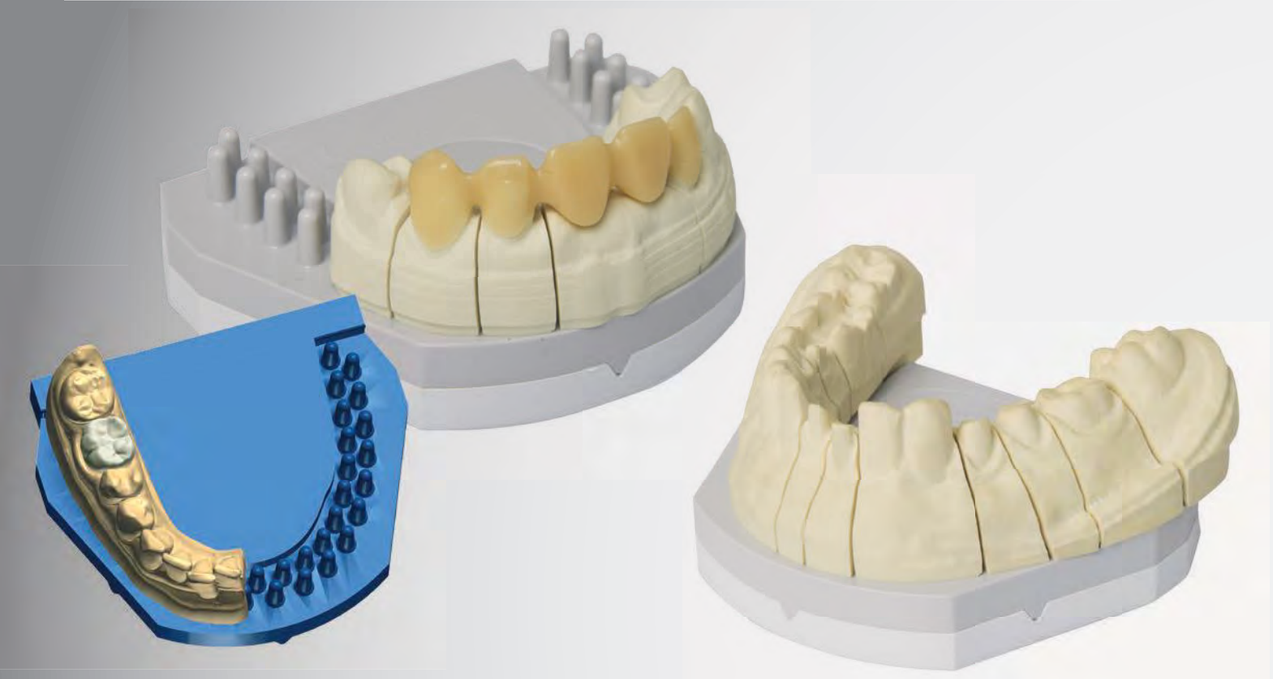
at www.imes-icore.de

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

PreFace® Abutment Holder

(Medentika)

MEDENTIKA®
A Straumann Group Brand

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						

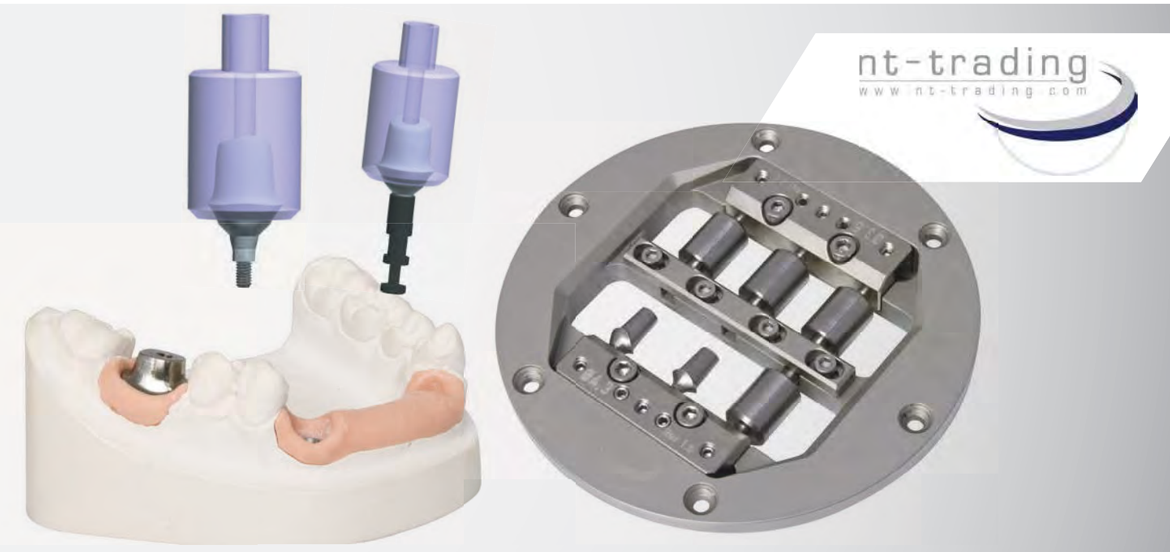
NT-Preform® Abutment Holder

(nt-trading)

nt-trading
www.nt-trading.com

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

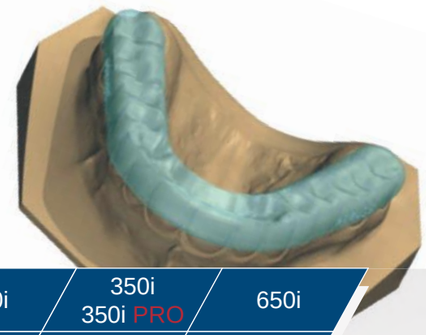
(Dess)

DESS
> DENTAL SMART SOLUTIONS

- 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
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5

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.

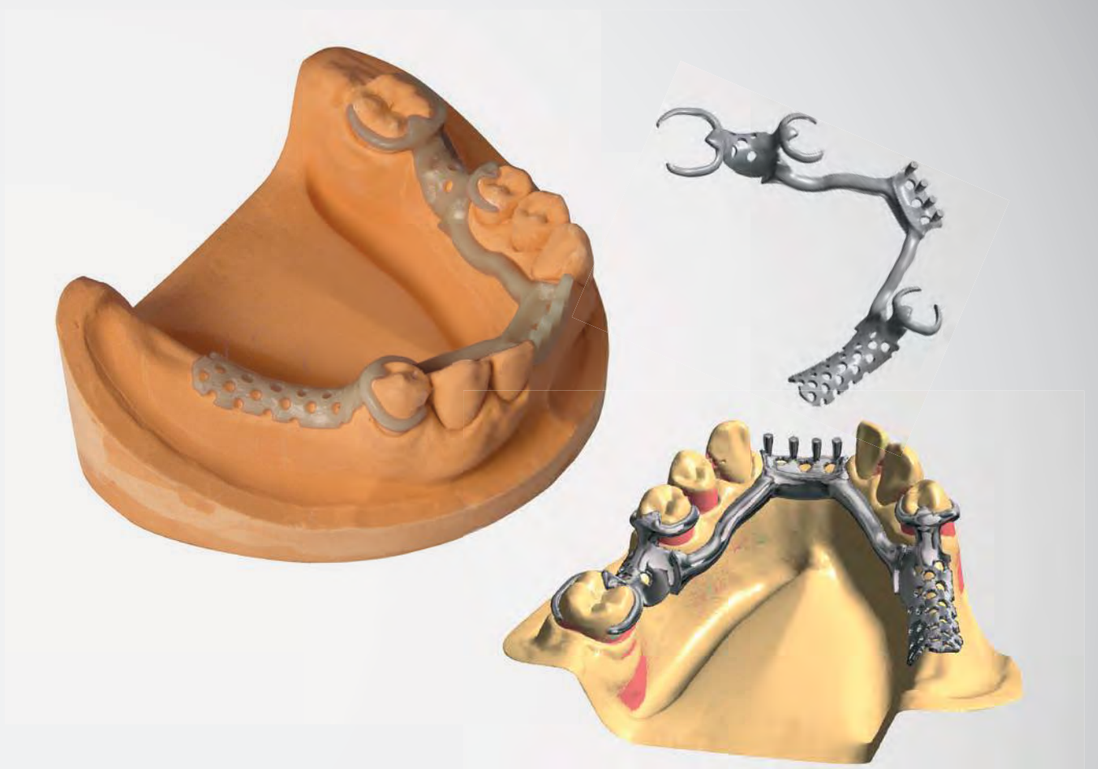
The characteristic feature of the data generated by CAD is the fast and high-quality implementation of the designs. The preparation is intuitive, and adapted to the specific patient situation. A virtual articulator provides additional support. Important parameters, such as condylar path, Benett angle, 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
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5

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®crown

(pritidenta®)

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®crown, the new aesthetic dimension for CAD/CAM: aesthetically pleasing, three-dimensional, functional

priti®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.

pritidenta®

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®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:

VITA

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

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.

3M ESPE Lava™ Materials Approved

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
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5

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 Brånemar®
Straumann SynOcta®

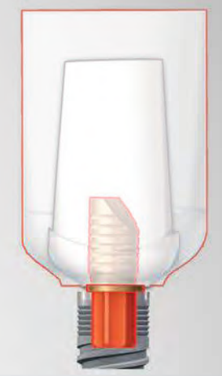
BioHPP elegance prefabs

the first individual physiological hybrid abutment based on PEEK

Requirements	one	140i	245i	250i	350i 350i PRO	650i
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5

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
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5

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 CORiTEC 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.

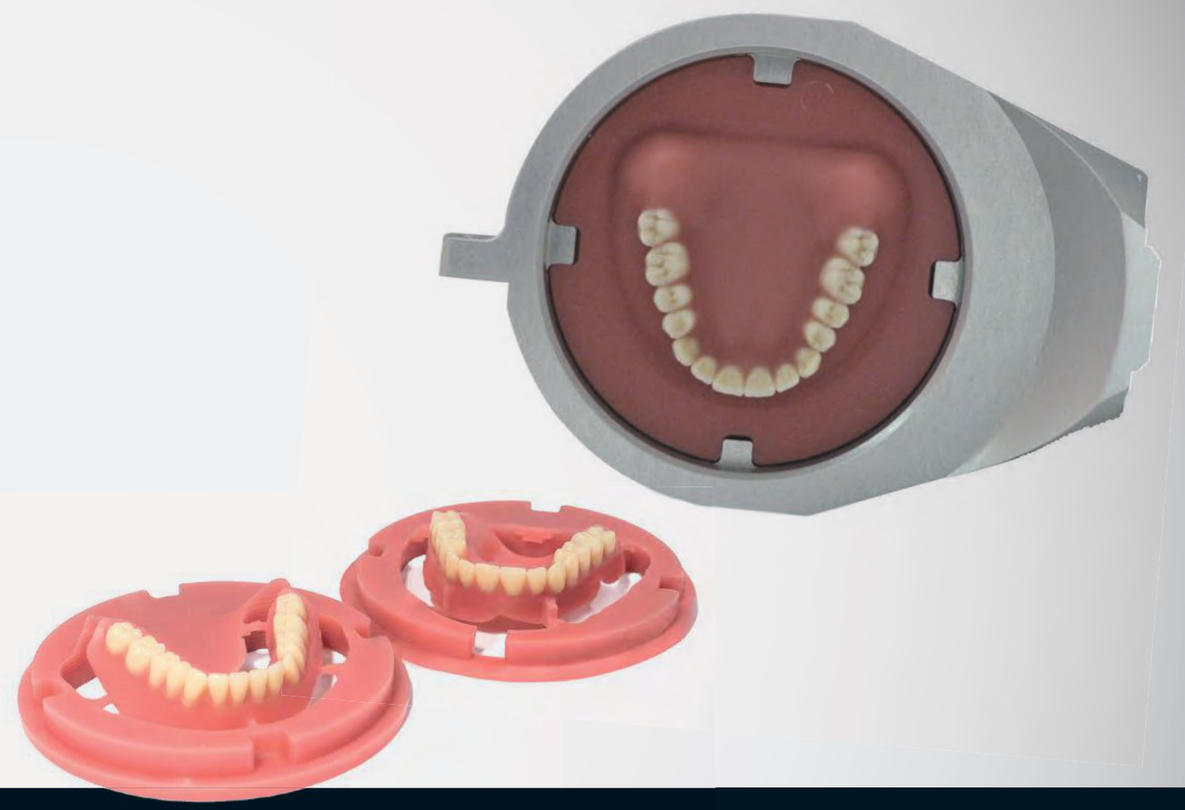
Take advantage of this great option to add value to your system with these high-quality brand-name products.

Baltic Denture System by Merz Dental GmbH

Requirements	one	140i	245i	250i	350i 350i PRO	650i
			245i dry	250i dry	350i Loader 350i Loader PRO	650i Loader

CAM: iCAM V4.7 | iCAM V5
HyperDENT von Follow-Me

CAD: Merz Dental GmbH: BDCreator



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. BDLoad 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 BDCreator design software. The CNC machining of BDLoad ensures precise fit and high material quality of the manufactured complete denture.

MERZ DENTAL

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

imes-icore®
Competence in CNC & DENTAL-Solutions

IMPRESSIONS

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www.imes-icore.de

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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imes-icore
made in
Germany

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

How to find us

From the North:
via A7 to A4 towards Bad Hersfeld, then B27 towards Hünfeld, in Sieglos turn left to Eiterfeld

From the East:
via A4 towards Bad Hersfeld, then B27 towards Hünfeld, in Sieglos turn left towards Eiterfeld

From the South:
via A7 towards Fulda/North, then B27 to Hünfeld, exit towards the North towards Eiterfeld

From the West:
via A5 to A4 towards Bad Hersfeld, then B27 towards Hünfeld, in Sieglos turn left to Eiterfeld

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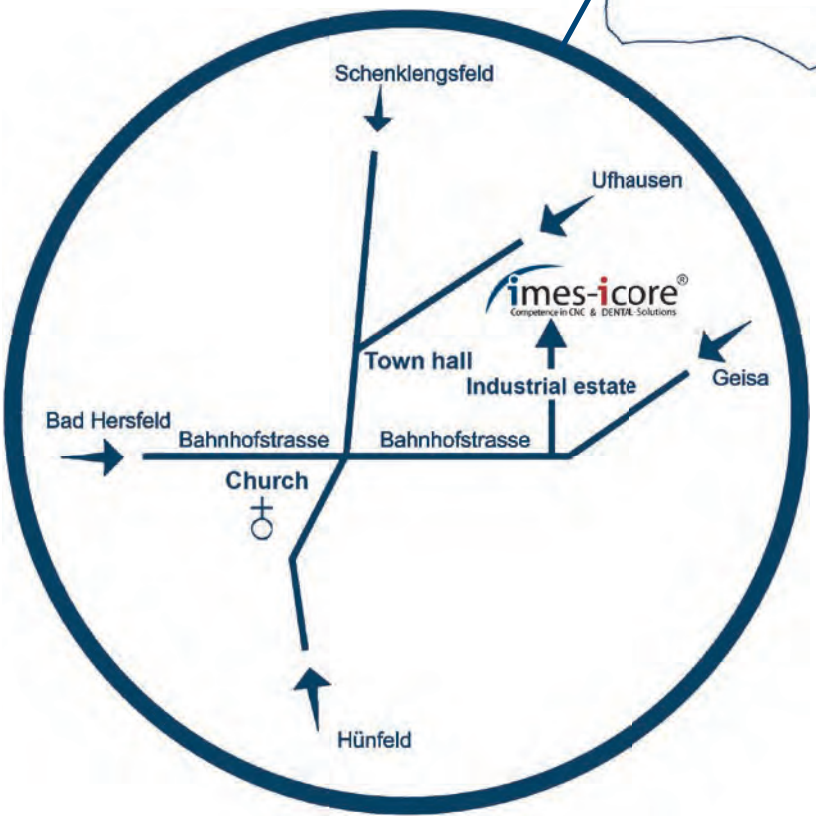

In the industrial area follow the signs

FLEXIBILITY
SMART
WORKFLOW
DIGITALISATION
DYNAMIC
AUTOMATION / HANDLING
PRODUCTIVITY
CORITEC SYSTEMS
2018
MILLING / GRINDING
JOB - MANAGEMENT
GROWTH
SIMULATION
HIGH-TECHNOLOGY
LASER ENGRAVING / LASER CUTTING