



 proto3000

THE NEW GENERATION OF IMES-ICORE
**PROFESSIONAL &
DESKTOP DENTAL
MILLS**

2017

Authorized Distributor


Competence in CNC & DENTAL-Solutions



proto3000

ISO 9001:2008

DENTAL MILLS

DENTAL MILL MATRIX



TECHNICAL DATA	CORITEC 140i	CORITEC 245i dry touch	CORITEC 245i touch	CORITEC 250i dry touch	CORITEC 250i touch
number of axes	4	4	4	5	5
number of tool positions	6	12	12	12	12
maximum spindle speed	0.4kW 60,000rpm	0.4kW 60,000rpm	0.4kW 60,000rpm	0.4kW 60,000rpm	0.4kW 60,000rpm
axel drives	microstep drives	microstep drives	microstep drives	microstep drives	microstep drives
tool change/number of blank holder	manual 1-3 times	manual once	manual once	manual once	manual once
dry processing	●●	●●	●●	●●	●●
wet processing	●●	/	●●	/	●●
blank processing 98/98.5mm	/	●●	●●	●●	●●
block processing (CAD/CAM blocks)	●●	●**	●●	●**	●●
MATERIALS					
zirconium oxide/aluminum oxide	●	●●	●●	●●	●●
PMMA/resins/PEEK/composite/wax	●●	●●	●●	●●	●●
glass ceramics/hybrid ceramics	●●	/	●●	/	●●
sintered metal	/	●●	●●	●●	●●
chromium cobalt	/	/	/	/	/
titanium	●*	/	/	/	/
APPLICATIONS					
(all applications are ideal ●●, unless otherwise specified)	<ul style="list-style-type: none"> copings/crowns/inlay/onlay bridges up to 3 items <ul style="list-style-type: none"> telescopes abutments on titanium- <ul style="list-style-type: none"> adhesive basis prefabricated abutments (Ti/CoCr) 	<ul style="list-style-type: none"> copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes therapeutic splints (bite splints) <ul style="list-style-type: none"> model cast abutments on titanium-adhesive basis one-piece abutments (Zr, resins) 	<ul style="list-style-type: none"> copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes therapeutic splints (bite splints) <ul style="list-style-type: none"> model cast abutments on titanium-adhesive basis one-piece abutments (Zr, resins) 	<ul style="list-style-type: none"> copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes therapeutic splints (bite splints) tooth models model cast abutments on titanium-adhesive basis one-piece abutments (Zr, resins) 	<ul style="list-style-type: none"> copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes therapeutic splints (bite splints) tooth models model cast abutments on titanium-adhesive basis one-piece abutments (Zr, resins)

LEGEND

- ideal
- suitable
- / not available

- * option to use prefabricated abutments
- ** only for dry processing
- *** only for CoCr

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ISO 9001:2008

DENTAL MILLS

DENTAL MILL MATRIX



TECHNICAL DATA	CORITEC 350i	CORITEC 350i Loader	CORITEC 650i	CORITEC 650i Loader
number of axes	5	5	5	5
number of tool positions	20	20	32	32
maximum spindle speed	1kW 60,000rpm	1kW 60,000rpm	2.3kW 60,000rpm	2.3kW 60,000rpm
axel drives	servo drives	servo drives	linear & torque drives	linear & torque drives
tool change/number of blank holder	manual once	automatic up to 12 times	automatic up to 16 times	automatic up to 16 times
processing	all machines are capable of: dry processing, wet processing, blank processing 98/98.5mm, and block processing (CAD/CAM blocks)			
materials (all materials are ideal (●●), unless otherwise specified)	zirconium/aluminum oxide PMMA/PEEK/ resins/composites/wax glass/hybrid ceramics sintered metal ● chromium cobalt ● titanium	zirconium/aluminum oxide PMMA/PEEK/ resins/composites/wax glass/hybrid ceramics sintered metal ● chromium cobalt ● titanium	zirconium/aluminum oxide PMMA/PEEK/ resins/composites/wax glass/hybrid ceramics sintered metal chromium cobalt titanium	zirconium/aluminum oxide PMMA/PEEK/ resins/composites/wax glass/hybrid ceramics sintered metal chromium cobalt titanium
applications (all applications are ideal (●●), unless otherwise specified)	copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes 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, Ti) ● barr structures/one-piece abutment bridges on implants	copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes 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, Ti) ● barr structures/one-piece abutment bridges on implants	copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes 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, Ti) barr structures/one-piece abutment bridges on implants	copings/crowns/inlay/onlay bridges up to 3 items bridges up to 14 items telescopes 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, Ti) barr structures/one-piece abutment bridges on implants

LEGEND

- ideal
 - suitable
 - not available
- * option to use prefabricated abutments
** only for dry processing
*** only for CoCr

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Grinding of Block Materials



Milling of Complete Dentures



Implant-supported Bridges & Brackets/Abutments



Prefabricated Crowns

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CORiTEC 140i

Practical Solution for Dental Labs



Specialized for processing CAD/CAM blocks.

The CORiTEC 140i machine system is perfectly suited for everyday use for grinding virtually all block materials available on the market. The machine can produce restorations directly, in combination with an intraoral scanner.

Also, the system is often used as a special machine in labs and milling centers for special wet processing of a wide variety of block materials. The stable industrial design of the machine makes processing in the highest quality possible - even the production of prefabricated abutment.

Technical Highlights

- Attractive price-performance ratio ensures cost-effectiveness, and thus very short payback time
- Processing all standard CAD/CAM blocks, such as glass ceramics, lithium disilicate, or feldspars
- Production of prefabricated abutments
- Multi-adapter with up to three blocks
- Automatic, 6-fold tool changer with tool management
- Integrated wet and dry processing
- Tool runtime control/breakage control
- Highest precision through high-frequency spindle with up to 60,000 rpm
- 4-axis machining of material blocks (with undercut detection)
- Flexible adapter system allows the use of different CAD/CAM block systems
- Incl. control PC with Windows 7/8

Technical Specifications

# of axles & machining type	4 axes, simultaneous machining
max. tilt angle (rotary axis)	360 degree processing possible
wet processing	integrated
spindle max	60,000 rpm / 0.4kW
axle drives	microstep motors
tool fitting	3mm shaft
tool changer	6-fold
workpiece changer	manual/1 and 3 way adapter possible/block processing
weight	55kg
width x depth x height	430 x 528 x 365mm
mains voltage/frequence/power	100V-240V/50-60Hz/800W
compressed air supply	6-9 bar constant supply, 50 litres/minute
materials	prefabricated abutment, zirconium dioxide, aluminium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
compatibility	CAD/CAM blocks (1 & 3 fold adapter), Medentika PreFace abutments

CORiTEC 245i/245i dry

Optimal price to performance ratio



High precision through integrated temperature compensation.

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

Thanks to the perfect price/performance ratio of the machines, most of all restorations can be produced inexpensively from e.g. zirconium dioxide or PMMA materials. All commercially available blanks with the 98 mm or 98.5 mm diameter can be used.

Technical Highlights

- 4-axis machining system with up to 30° axis orientation
- Integrated cooling circuit for cooling lubricant (only 245i)
- HF spindle up to 60,000 rpm
- High-resolution & high-performance micro-step controllers & motors on all axes
- Air purge system and cooling nozzles for wet processing are integrated in the spindle holder
- Tool runtime control/breakage control
- Extraction system to extract the resulting particulate matter
- Automatic compressed air and coolant monitoring
- For processing of zirconium dioxide, PMMA, wax, plastics, and grindable block materials
- Control software Remote DENTAL 2.0
- Incl. control PC with Windows 7/8

Technical Specifications

# of axes & machining type	4 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees
wet processing	integrated only in CORiTEC 245i
spindle max	60,000 rpm / 0.4kW
axle drives	microstep motors
tool fitting	3mm shaft
tool changer	10-fold
workpiece changer	manual
weight	85kg
width x depth x height	520 x 550 x 650mm
mains voltage/frequency/power	100V-240V/50-60Hz/800W
compressed air supply	6-9 bar constant supply, 50 litres/minute
materials	zirconium dioxide, aluminium oxide, PMMA, plastics, composites, wax, glass ceramics (only 245i), hybrid ceramics (only 245i)
compatibility	98mm/98.5mm blanks CAD/CAM blocks (3 fold adapter), Lava frames

CORiTEC 250i/250i dry

The compact 5-axis entry level system



5-axis technology and optional wet processing.

The machine systems CORiTEC 250i and 250i CORiTEC dry are the most widely used CAD/CAM entry level systems. Thanks to the 5-axis technology, these machines can also produce complex dentures with diverging stumps without rework. These systems are therefore ideal if a good price/performance ratio is in the foreground, with, nevertheless, very high flexibility of the machine system.

The CORiTEC 250i also features an option of wet processing. Wet processing takes place mostly in the processing of CAD/CAM blocks, and special plastic materials.

Technical Highlights

- 5-axis machining system with up to 30° axis orientation
- Tool runtime control/breakage control
- Integrated cooling circuit for cooling lubricant (only CORiTEC 250i)
- High-resolution and high-performance micro-step controllers and motors on all axes
- Air purge system and cooling nozzles for wet processing are integrated in the spindle holder
- HF spindle up to 60,000 rpm
- Extraction system to extract the resulting particulate matter
- Automatic compressed air and coolant monitoring
- For processing of zirconium dioxide, PMMA, wax, plastics, and grindable block materials
- Control software Remote DENTAL 2.0
- Incl. control PC with Windows 7/8
- Touch Screen Interface

Technical Specifications

# of axes & machining type	5 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees / B-axis +/- 25 degrees
wet processing	integrated only in CORiTEC 250i
spindle max	60,000 rpm / 0.4kW
axle drives	microstep motors
tool fitting	3mm shaft
tool changer	10-fold
workpiece changer	manual
weight	85kg
width x depth x height	520 x 550 x 650mm
mains voltage/frequence/power	100V-240V/50-60Hz/900W
compressed air supply	6-9 bar constant supply, 50 litres/minute
materials	zirconium dioxide, alimunium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics (only 250i)
compatibility	98mm/98.5mm blanks CAD/CAM blocks (3 fold adapter), Lava frames

CORiTEC 350i

The ultimate all-in-one solution



Zero point clamping system for easy blank changes at the press of a button.

With the CORiTEC 350i processing system, a novel machine concept has been developed which meets all modern requirements for 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 in wet and dry processing in high quality. This makes the system ideal for demanding laboratories as an all-rounder to produce all typical applications in your own lab, in high quality, using CAD/CAM technology.

Technical Highlights

- 5-axis simultaneous processing
- Integrated wet and dry processing
- Optional zero point clamping system
- 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 80,000 rpm
- Integrated control PC with touch screen
- Servomotors on all axes
- Chip protection of the tool changer
- Frontal machining of the workpiece possible (B-axis in 90 degree position)

Technical Specifications

# of axes & machining type	5 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees / B-axis +/- 25 degrees
wet processing	integrated
spindle max	60,000 rpm / 1kW
axle drives	servomotors
tool fitting	6mm shaft
tool changer	20-fold with chip protection cover
workpiece changer	manual/optional: with zero point clamping system
weight	180kg
width x depth x height	758 x 790 x 857mm
mains voltage/frequency/power	100V-240V/50-60Hz/2200W
compressed air supply	6-9 bar constant supply, 80 litres/minute
materials	CoCr/NEM, titanium, zirconium dioxide, aluminium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
compatibility	98mm/98.5mm blanks CAD/CAM blocks, NT-Trading pre-milled abutments, Medentika PreFace abutments, Lava frames

CORiTEC 350i Loader

A revolution in automatic production



Processing of up to 12 blanks with an automatic blank changer.

With the CORiTEC 350i and CORiTEC 350i Loader processing systems, a novel machine concept has been developed which now meets all modern requirements for 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 in wet and dry processing in high quality, for almost any application. This makes the system ideal for demanding labs as an all-rounder to produce all typical applications in your own lab, in high quality, using CAD/CAM technology.

Technical Highlights

- 5-axis simultaneous processing
- Integrated wet and dry processing
- Processing of all important materials used in the dental industry, including metalworking
- Automatic blank changer with up to 12 blanks, including zero point clamping system
- 20-fold tool changer
- Servomotors on all axes
- Axis tilt angle up to 30°
- HF spindle up to 80,000 rpm
- Integrated control PC with touch screen
- Chip protection of the tool changer
- Frontal machining of the workpiece possible (B-axis in 90 degree position)

Technical Specifications

# of axles & machining type	5 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees / B-axis +/- 25 degrees
wet processing	integrated
spindle max	60,000 rpm / 1kW
axle drives	servomotors
tool fitting	6mm shaft
tool changer	20-fold with chip protection cover
workpiece changer	12 fold fully automatic (standard 6 fold, extendable to 12)
weight	225kg
width x depth x height	1058 x 790 x 857mm
mains voltage/frequence/power	100V-240V/50-60Hz/2300W
compressed air supply	6-9 bar constant supply, 100 litres/minute
materials	CoCr/NEM, titanium, zirconium dioxide, alimunium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
compatibility	98mm/98.5mm blanks CAD/CAM blocks, NT-Trading pre-milled abutments, Medentika PreFace abutments, Lava frames

CORiTEC 650i

Premium quality with future-oriented technology



Granite axis structure with dynamic linear & torque motors.

In the area of premium machines for premium requirements, the new CORiTEC 650i and CORiTEC 650i Loader machine systems were developed. The systems have a very interesting price level and are equipped with high-quality industrial milling technologies, such as granite structure, direct drives, digital length measuring systems, and powerful main spindle. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal work. All other relevant materials can also be milled or ground in high quality with this machine system, in wet or dry machining.

Technical Highlights

- Solid axis structure from polished natural granite for highly dynamic 5-axis simultaneous machining, and for high-precision milling results
- 3 linear axes with highly dynamic linear motor drives
- Massive granite rotating swivel unit as a 4th/5th Axis with torque motor drives
- Absolute, high-resolution measuring systems on all axes
- High-frequency spindle up to 62 000 rpm, 2.1 kW with HSK 25 tool holder
- 32-fold fully automatic tool changer.
- Integrated wet and dry machining for all materials and applications
- High-end control for fast control technology with touch screen operation
- Control software with order, processing, blanks, and tool management functions
- For high-quality standards of precision and speed in metalworking
- Optionally equipped with automatic workpiece changer/zero point clamping system (in preparation)

Technical Specifications

# of axles & machining type	5 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees / B-axis +/- 25 degrees
wet processing	integrated
spindle max	62,000 rpm / 2.3kW
axle drives	linear & torque motors, 0.5 µm resolution
tool fitting	HSK 25
tool changer	32-fold with chip protection cover
workpiece changer	12 fold fully automatic (in preparation)
weight	625kg
width x depth x height	790 x 800 x 1800mm
mains voltage/frequency/power	240V/50-60Hz/2800W
compressed air supply	6-9 bar constant supply, 150 litres/minute
materials	CoCr/NEM, titanium, zirconium dioxide, aluminium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
compatibility	98mm/98.5mm blanks CAD/CAM blocks, NT-Trading pre-milled abutments, Medentika PreFace abutments, Lava frames

CORiTEC 650i Loader

Full automation with automatic material changer



For continuous production of high-quality parts.

In the area of premium machines for premium requirements, the new CORiTEC 650i and CORiTEC 650i Loader machine systems were developed. The systems have a very interesting price level and are equipped with high-quality industrial milling technologies, such as granite structure, direct drives, digital length measuring systems, and powerful main spindle. The machine concept impresses with its precise, vibration-free and dynamic motion sequences in the demanding and complex metal work. All other relevant materials can also be milled or ground in high quality with this machine system, in wet or dry machining.

Technical Highlights

- Solid axis structure from polished natural granite for highly dynamic 5-axis simultaneous machining, and for high-precision milling results
- 3 linear axes with highly dynamic linear motor drives
- Massive granite rotating swivel unit as a 4th/5th Axis with torque motor drives
- Absolute, high-resolution measuring systems on all axes
- High-frequency spindle up to 62 000 rpm, 2.1 kW with HSK 25 tool holder
- 32-fold fully automatic tool changer.
- Integrated wet and dry machining for all materials and applications
- High-end control for fast control technology with touch screen operation
- Control software with order, processing, blanks, and tool management functions
- For high-quality standards of precision and speed in metalworking
- Equipped with automatic workpiece changer/zero point clamping system (in preparation)

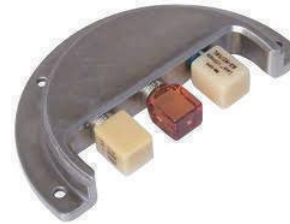
Technical Specifications

# of axes & machining type	5 axes, simultaneous machining
max. tilt angle (rotary axis)	A-axis +/- 30 degrees / B-axis +/- 25 degrees
wet processing	integrated
spindle max	62,000 rpm / 2.3kW
axle drives	linear & torque motors, 0.5 µm resolution
tool fitting	HSK 25
tool changer	32-fold with chip protection cover
workpiece changer	12 fold fully automatic (in preparation)
weight	625kg
width x depth x height	790 x 800 x 1800mm
mains voltage/frequence/power	240V/50-60Hz/2800W
compressed air supply	6-9 bar constant supply, 150 litres/minute
materials	CoCr/NEM, titanium, zirconium dioxide, alimunium oxide, PMMA, plastics, composites, wax, glass ceramics, hybrid ceramics
compatibility	98mm/98.5mm blanks CAD/CAM blocks, NT-Trading pre-milled abutments, Medentika PreFace abutments, Lava frames

Model Milling



With the revolutionary Baumann model system, for the first time it is now possible to manufacture fully milled saw-cut models, analogous to the previously known (plastered) saw-cut models. The scan is done either directly with an intraoral scanner, or alternatively as a classical impression scan. In a few steps, the digital model can then be generated with a 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 result is a familiar saw-cut model without the drawbacks of the conventional model production.



Grinding of Block Materials

With Lava™ Ultimate, the term chairside productivity takes on a whole new meaning. Thanks to the new Resin Nano Ceramic Technology (RNC), with Lava™ Ultimate, you can create solid, durable, and aesthetically pleasing full-contour crowns in a 100 percent chairside workflow. One block, two options. The CELTRA DUO lithium silicate, enhanced with zirconium dioxide, represents a whole new class of materials. 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 for processing are currently available.

Implant Models



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 bolted implant applications in a fully digital mode. Thereby, model production is quick and easy. Position and orientation definition takes place via the scan bodies. This process step can also be performed intraorally.



Prefabricated Crowns

With the revolutionary Baumann model system, for the first time it is now possible to manufacture fully milled saw-cut models, analogous to the previously known (plastered) saw-cut models. The scan is done either directly with an intraoral scanner, or alternatively as a classical impression scan. In a few steps, the digital model can then be generated with a 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 result is a familiar saw-cut model without the drawbacks of the conventional model production.

Abutment Holders



One-piece abutments in industrial quality? System solutions make it feasible. All you need is the respective starter kit from imes-icore. You can then order more blanks from the actual manufacturer. In the design process, you design and cut only the anatomically reduced form.



Milling of Cast Models

Milled model casting? No problem with the end-to-end solution from imes-icore. Fully digital workflow ensures modelling in CAD. The output is an open file format (stl). Milling the restoration from the PEEK plastic (polyetheretherketone) is then highly recommendable. The resulting dentures are also non-allergenic and very light, in contrast to other existing materials such as CoCr or titanium.



3M ESPE Lava Approved

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 machines.



Pre-Milled PEEK Abutments

BioHPP is a ceramic-enhanced, partially crystalline polyetheretherketone(PEEK). The bonding forces of polymer chains are more effective when the chains are aligned in parallel. Such areas are called crystalline. PEEK, the main component of breCAM.BioHPP, has been successfully applied in human medicine for 30 years in implantology (for 20 years as spine interbodies and hip joint prostheses).

Through hardening with ceramic fillers, the material properties were significantly improved (strength, abrasion and veneering properties), and thus specifically adapted and optimized to the needs and applications in dentistry.



Therapeutic Splints

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 to hand (contact us for information), concepts such as occlusal splints, bleaching trays etc. can be generated. In the future, the possibilities can be extended to other applications, such as orthodontic appliances and mouth guards.

Implant-supported Bridges & Brackets/Abutments

The following systems are currently supported:

Implant systems (no lock)

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 (lock)

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



Milling of Complete Dentures

With the revolutionary Baumann model system, for the first time it is now possible to manufacture fully milled saw-cut models, analogous to the previously known (plastered) saw-cut models. The scan is done either directly with an intraoral scanner, or alternatively as a classical impression scan. In a few steps, the digital model can then be generated with a 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 result is a familiar saw-cut model without the drawbacks of the conventional model production.



CORiTEC iCAM V4.6

Unlimited options with precision.



Optimal 5-axis CAM software for beginners and professionals.

CORiTEC iCAM V4.6 is a prestigious 5-axis Profi-CAM system based on Windows 7/8, which has matured after many years of experience. Simple, reliable and fast operation makes iCAM V4.6 unique. The applied dental application software has been optimized for the automatic production of high-quality dental restorations.

It calculates the milling data in no time with optimized and safe milling strategies, based on ten years of dental CAD/CAM experience, for all common materials and dental structures. The user-friendly and clearly arranged interface, as well as many fully automated functions, ensure reliable and easy operation.

Technical Highlights

- Completely open CAM system, not bound to a material supplier
- No annual license fees, unlimited duration
- Very easy to use, with a short training period
- Suitable for 4 and 5-axis machines
- Additionally equipped with grinding strategies for glass ceramics, lithium disilicate, and feldspars
- Also available for your machines when you upgrade your existing software (isy-CAM3.0/3.2 and iCAM V4)
- Automatic data import
- Demand-driven automatic height optimization
- Everything at a glance, Job View and all blanks
- Reduction of milling times by up to 20%-40%
- Hybrid milling technology
- Automatic placing of holding brackets
- Milling strategies for virtually all implant systems
- Improved job orientation, with potential preparation margin recalculation
- Free positioning of the hexagon or octagon in implant systems
- Intuitive milling strategies; by simply selecting an area, it is automatically processed with the next smaller tool
- Angle default setting for automatic “undercutmilling” for 4-axis systems
- Enhanced and simplified functions for creating and moving the holding brackets
- Parameters for holding brackets, drops, bending connectors, and job identification can be adjusted using material-related default settings
- All jobs placed in the blank can still be subsequently changed as desired
- Milling strategies can be comfortably adjusted
- Automatic undercut detection
- 64-bit multi-core support

Integrated New Modules

- Automated milling of tooth models
- Production of prefabricated abutments by nt-trading and Medentika
- Production of prefabricated ceramic crowns by pritidenta®
- Automated milling of splints, model casts, and implant-supported, screw-fitted applications is possible

CORiTEC iCAM V5

High-end CAM software with perfect flexibility



The high-end solution for 5-axis simultaneous milling.

iCAM V5 is the high-end CAM solution of 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 crucial for best fit and long tool life.

Furthermore, the extremely high milling data resolution results in a perfectly quiet and precise running of your milling machine, and thus increases the tool 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, and maximises customer satisfaction. Precisely these options are used to control the high-end imes-icore milling machines.

Technical Highlights

- Completely open CAM system, not bound to a material supplier
- Very easy, automated operation with a short training period
- Automatic detection of all necessary parameters, such as preparation margins, insertion directions, bore holes, etc.
- Milling of jobs with multiple insertion directions/undercuts with all 4-axis machines (3 + 1)
- 5-axis simultaneous machining and/or 3 + 2 machining to reach difficult areas
- Creating/copying/modifying existing and custom milling strategies/templates
- Optimal cutting strategies, which enable significant saving of milling time compared to other CAM solutions
- Production of prefabricated abutments from nt-trading and Medentika
- Production of prefabricated ceramic crowns by pridenta®
- Automated milling of models, splints, model casts, and implant-supported, directly bolted applications is possible
- Detailed and fast simulation of the milling process
- Implant replacement for using own implant libraries for quality assurance.
- Predefined, free of charge post-processors for all imes-icore milling machines
- Creating/copying/modifying existing and custom milling strategies and templates
- Predefined, free of charge post-processors for all 4 and 5-axis machines are thus suitable for all imes-icore milling machines
- Automatic height optimization to save material
- Very easy, automated operation, with a short training period
- Possibility of connecting holding brackets (clusters)
- Grinding of ceramic and lithium disilicate blocks
- Calculation of milling data for all current and proven milling machines
- Automatic detection of preparation margin and bore holes
- Fine finishing strategies up to a cutter diameter of 0.3 mm
- Automatic undercut detection and representation
- Complete or partial removal of freely definable holding brackets
- Also available in a CAD integrated version.
- Optimization of cutting direction from the inside and outside
- Use of up to 8 processor cores to accelerate milling measurements
- Simulation of the milling process, incl. collision control in real time
- Dynamic preview with the possibility of carrying out measurements
- Reuse of partially used blanks
- Easily editable, predefined tools and milling strategies
- Option to create sintered drops or sintered platforms
- Automatic management of specific abutment forms, such as hexagon socket
- Visual automatic collision detection for tool, spindle and machine components

CUTTERS & GRINDERS

Customized solutions optimized for relevant materials & equipment

CORiTEC CoCr/Ti



CORiTEC CoCr/Ti



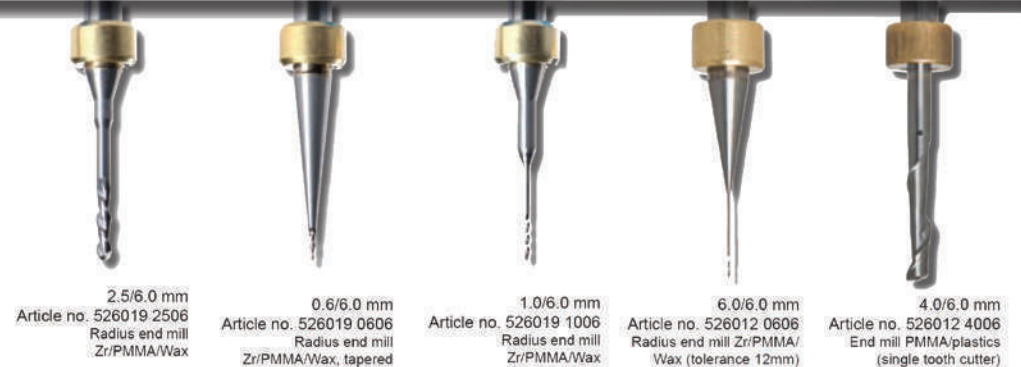
CORiTEC Universal (all dental materials)



CORiTEC PMMA/nano-composite/wax



CORiTEC PMMA/nano-composite/wax



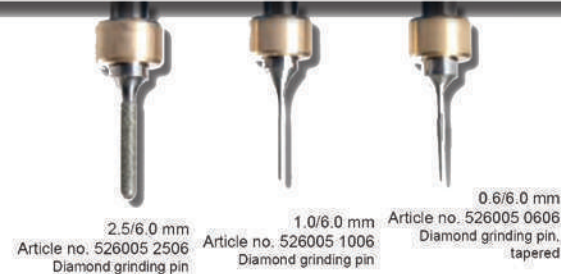
CORiTEC glass ceramics



CORiTEC Zr/Al - diamond



CORiTEC glass ceramics



CORiTEC Zr/Al - diamond



HIGH QUALITY MATERIALS

For imes-icore machines

CORiTEC Zr ht+ (Highly translucent zirconium dioxide)

- For highest demands on natural esthetics
- Zirconium dioxide redefines translucency
- Zirconium dioxide which is comparable to translucent lithium dioxide for the first time
- Zirconium dioxide with massively increased resistance in comparison to lithium dioxide



CORiTEC Zr transpa Disc (zirconium dioxide) light, medium, intense, low chromatic, high chromatic

- Pre-colored highly translucent material
- Affordable framework material which will meet highest esthetic demands.
- Large range of applications
- Excellent mechanical properties and unmatched strength values
- Readily machinable
- Perfect fit of all restorations, including long-span bridges
- Full biocompatibility
- Non-ageing



CORiTEC Zr Disc (Zirkoniumdioxid)

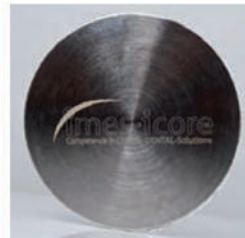
- Affordable all-ceramic framework material which will meet high esthetic demands
- Large range of applications
- Highly translucent material
- Outstanding mechanical features and very good strength values
- Perfect fit of all restorations
- Full biocompatibility
- Non-ageing



CORiTEC CoCr Disc

Non-precious alloy

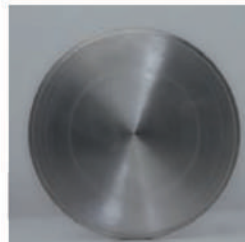
- Outstanding mechanical features
- Very good thermal properties
- Perfect fit of all restorations, including long-span bridges
- Very good biocompatibility
- High corrosion resistance
- Perfect milling qualities



CORiTEC Ti Disc

Pure titanium grade 2, pure titanium grade 4

- Excellent mechanical features
- Extremely high levels of hardness and break resistance
- Perfect fit of all restorations, including long-span bridges
- Good corrosion resistance
- Good milling qualities



CORiTEC PMMA Disc

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



CORiTEC Wax Disc

(Wax, grey)

- Very good cutting action
- Excellent operating characteristics, also in conjunction with modelling wax (lost mould)
- Residue-free burning for casting technology
- No swelling
- Speed capable
- Grey color for optimal contrast
- Very high profitability



innoBlanc htp PMMA (polymethylmethacrylate)

- Residual monomer content of 0.07% - 0.10%
- Cell vitality rate of 96% - 98%
- Thermoplastic acrylic polymer based on methyl methacrylate
- Without toxic or allergenic substances
- Indicated for long-term deployment in the oral cavity
- Medically tested base material, processed with industrial injection moulding process, under highest quality control.
- Color pigments with FDA (Food and Drug Administration/USA) approval



innoBlanc splint (transparent)

PMMA (polymethylmethacrylate)

- Residual monomer content of 0.19%
- Cell vitality rate of 96% - 98%
- Thermoplastic acrylic polymer based on methyl methacrylate
- Without toxic or allergenic substances
- Indicated for long-term deployment in the oral cavity
- innoBlanc splint is available in transparent version; it is used for manufacturing of milled splints.



innoBlanc medical PEEK

(polyetheretherketone)

- innoBlanc 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 non-wearing



CORISHADE smile

CORISHADE smile is used in particular for the coloring of translucent zirconium dioxide. In addition to the mechanical properties, also the optical properties are now limitless. For an esthetic effect, the fluids were perfectly matched to the CORiTEC Zr blanks.





iSINT eco, iSINT-HT and iSINT HT-S

The iSINT eco, iSINT HT and iSINT HT-S sintering furnaces are designed for daily sintering processes thanks to their 4-6 MoSi₂ heating elements. Due to the extremely even temperature distribution in the combustion chamber, homogenous shrinkage of zirconium dioxide restorations is guaranteed. Thus, the best fit can be achieved, especially for large-span bridges and brackets. The iSINT-HT and iSINT HT-S sintering furnaces are also available in a “speed” version. Due to the microprocessor-controlled temperature control, the “Speed” variant enables a sintering process in under four hours. The emergency cooling function, secured by a rechargeable battery, also prevents equipment damage due to power failure.

The imes-icore sintering furnaces thus ensure high-quality production of zirconium dioxide restorations without compromising on quality. The maximum attainable temperature of up to 1650°C, and the smart sintering programs, also provide you with a future-proof investment in a quality product.



iCompVAC, iVAC eco+ & iVAC pro

The CORiTEC iCompVAC, on the one hand, brings a powerful extraction system with a brushless turbine. On the other hand, an oil-free compressor is installed in the same casing, which allows direct operation of the 140i, 245i, 250i, 350i or 450i CORiTEC machines. The unit is controlled automatically at the start and end of the milling program, so that self-sufficient milling is guaranteed overnight or on weekends. In addition, the CORiTEC iCompVAC can be switched manually, which can also be used e.g. for cleaning of the machine. The large integrated filter bag allows for maximum filtration of particulate matter, and thus does not require frequent replacements.

The new CORiTEC iVAC eco+ is the younger sister of CORiTEC iCompVAC. It only differs in that it does not have a built-in compressor. Thanks to the brushless turbine, this powerful extraction system is extremely compact and very quiet. Here again, the particulate matter is transferred to specially designed collection bags that meet the degree of filtration required for e.g. zirconium dioxide. A downstream HEPA filter prevents the escape of residual particulate matter.



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