The CORiTEC 250i and CORiTEC 250i dry machine systems are the most widely used CAD/CAM systems for applications out 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. Therefore, these systems are an ideal choice if a good price-performance ratio but also very high equipment flexibility is of importance.

The processing of CAD/CAM blocks or premilled abutments is also possible by using the respective adapter systems. By purchasing the CORiTEC 250i you obtain a cost-efficient but flexible and versatile milling machine at once.
CORiTEC 250i/250i dry

**HIGHLIGHTS**

- 5-axis machining system with up to ± 30° axis orientation
- Tool runtime control/breakage control
- Integrated cooling circuit for cooling lubricant
- Compressed air and coolant level monitoring
- Processing of prefabricated abutments
- Machining of zirconium, PMMA, wax, plastics, grindable board materials
- Also available as dry version
- High precision due to integrated temperature compensation

**INTEGRATED COOLING CYCLE FOR COOLING LUBRICANT AND FILTER SYSTEMS**

**WET AND DRY PROCESSING POSSIBLE**

**TOOL LIFETIME CONTROL / TOOL BREAKAGE CONTROL**

**ERGONOMIC HANDLING**

Simple graphical touchscreen operation

**AUTOMATIC TOOL CHANGER**

Space for simultaneously use of 12 tools

- PMMA
- WAX
- Zr
- COMPOSITE
- PEEK
- SINT
- Glass ceramics
- CoCr
- Ti

- Standard
- Premilled Abutment
- Dentures
- Crown, Bridge
- Inlay, Onlay, Veneer
- Hybrid Abutment
- Splint

- Full Denture
- Model
- Dentealing technician
- Model casting

- Bridge
- Telescopic technology
- Abutment
- Hybrid machining
The compact 5-axis milling machine opens up a completely new machine segment. The CORiTEC 250i Loader PRO offers automation and 5-axis simultaneous machining of circular blanks and blocks in the smallest space and at an attractive price-performance ratio. The milling system is equipped with a fully automatic 10-fold tool changer with 3 mm milling tools and an integrated touch-screen monitor, which facilitates an intuitive operation in conjunction with the new smart control™ software. The fully automatic 6-fold blank changer offers the possibility to process all common materials of the dental industry, an automated production is therefore feasible. The CORiTEC 250i Loader PRO is the perfect solution for technicians who want to create their daily work more independent!

AUTOMATION IN THE SMALLEST SPACE

approx. 30 inch / 55 cm
CORiTEC 250i Loader PRO

HIGHLIGHTS

- novel, closed mono-block cast body for stability and precision
- 6-fold blank changer
- wet and dry machining possible
- integrated PC and touch display
- no external compressed air required (optional)
- ionizer optionally available
- processing of prefabricated abutments
- high precision due to integrated temperature compensation

FULL AUTOMATION
6 blanks at once with easy accessible blank stock

AUTOMATIC BLANK CLAMPING SYSTEM

POWERFUL PERFORMANCE
high end spindle with high torque and 100,000 rpm

ERGONOMIC HANDLING
simple graphical touchscreen operation
PC integrated

WET AND DRY MACHINING POSSIBLE

PROCESSING OF:
- Glass ceramics
- PMMA
- WAX
- COMPOSITE
- Zr
- CoCr
- PEEK
- Ti

C-Clamp, PreMilled Abutment, Snap-In, Thermal Dynamics, Hybrid Abutment, Bridge, Inlay, Onlay, Veneer, Crown, Bridge, Hybrid Abutment, Bridge, Dentures, Model Drilling, Splint
Applications & holder

MANUFACTURE OF DENTAL PROSTHESES
- Baltic Denture from Merz Dental
- Dentsply Sirona Dentures

PREFABRICATED ABUTMENTS
- short production times
- production of abutments in very simple processes
- high accuracy of fit due to prefabricated implant interface

THERAPEUTIC SPLINTS
- bite splints, bleaching splints
- snoring splints, aligners
- simple and high-quality implementation in CAD/CAM processes

GRINDING OF CAD/CAM BLOCKS
- new 6-fold adapter enables effective production
- exchangeable strips for different adapter systems
- crowns, onlays, inlays, veneers, bridge frameworks, etc.

BIOHPP ELEGANCE PREFABS
- individual hybrid abutment on PEEK basis
- BioHPP for permanent dentures, free of metal, oxide and monomer
- homogeneous combination of titanium and BioHPP

MILLING OF MODEL CASTS
- production in combustible material (PEEK)
- allergy-free and lightweight model casting when using PEEK
- cost-efficient

MILLED IMPLANT MODELS
- DIM (Digital Implant Model) from nt-trading
- precisely positionable
- 2-part implant analog

MODEL MILLING BAUMANN SYSTEM
- model fabrication in CAD/CAM process
- high reproducibility and precision
- model fabrication with digital impression by intraoral scanner
CORiTEC Materials

CORiTEC ZR (ZIRCONIUM DIOXIDE)
Covers all indications for dental restorations of up to 16 units. Ideally suited for monolithic restorations.

- highly translucent zirconium dioxide for natural aesthetics
- increased strength compared to lithium dioxide

JUVORA PEEK (POLYETHERETHERKETONE)

- clamp-retained constructions
- Juvora PEEK in its basic colour (brown-beige)
- highest biological compatibility

CORiTEC WAX DISC (WAX, GRAY)
CORiTEC Wax Disc is not suitable for intraoral application. After milling, the material can be used as lost wax. Moulds can be used in casting technology.
It can be milled easily and combusted residue-free.

CORiTEC PMMA (POLYMETHYL METHACRYLATE)

- bite guards, therapeutic splints, drilling templates, bite regulators
- very good mechanical properties
- aesthetic shade effect due to high translucency
- good milling behaviour

CORiTEC MODEL DISC IVORY

- blank for the production of dental models
- low-cost material
- also suitable for test purposes or for milling calibration bodies
CORiTEC smart control™
SMART CONTROL OF MACHINE SOFTWARE

smart control™ one touch ahead!
The newly developed control software „smart control™“ enables absolutely intuitive operation of our milling machines. From selecting the job to milling or querying the machine status; the self-explanatory and optimized handling makes it possible to start operating the machine in the shortest possible time. Starting a milling process requires only two clicks – benefit from the smart time savings for your workflow!

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

automated transfer of information from the CAM software

optimized for touchscreen operation

ideal tool management

CAM software
CORiTEC CAM V4.7
- all strategies optimized for 5-axis simultaneous machining
- 64-bit multi-core support
- no annual license fees
- validated post-processors for all imes-icore® CORiTEC machines

CORiTEC CAM V5
- all strategies optimized for 5-axis simultaneous machining
- automatic exchange of implant connections (ReFit option)
- no annual license fees
- fully automatic and easy operation with “Wizard Workflow”

Scanner
CORiTEC i3Dscan eco
- all-round carefree package for newcomers or small laboratories
- simple, fast, low-priced
- very compact design

CORiTEC i3Dscan color
- the object to be scanned is automatically guided into the measuring field
- modern touch control design
- the 180-degree opening offers a large working area

CORiTEC i3Dscan color HR
- enormously high scanning efficiency and precision (4 µm)
- Color Texture scan
- Blue-Light LED & High resolution camera (2.8 MP)
- all modules included in the scope of delivery

COMPATIBLE WITH
exocad

CORiTEC I3DSCAN color
- the object to be scanned is automatically guided into the measuring field
- all strategies optimized for 5-axis simultaneous machining
- automatic exchange of implant connections (ReFit option)
- no annual license fees
- fully automatic and easy operation with “Wizard Workflow”

exocad
Machine tables

The undercounters, specially developed for the needs of the various machine types, impress with their sturdy design as well as their attractive appearance. The machine tables have sufficient floor space. Stable rollers ensure optimum stability and easy movement of the devices. Drawers, cable ducts and a cabinet for the integration of appropriate extraction systems are already provided.

Machine Table T1
30.3 x 36.6 x 31.1 inch
770 x 930 x 790 mm
W x H x D

Machine Table T2
41.7 x 36.6 x 31.1 inch
1060 x 930 x 790 mm
W x H x D

Suction systems

<table>
<thead>
<tr>
<th>Model</th>
<th>IVAC silent</th>
<th>IVAC PRO</th>
<th>IVAC eco+</th>
<th>IVAC PRO*</th>
<th>iCompVAC*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume flow</td>
<td>160m³/hr</td>
<td>240 m³/hr</td>
<td>260m³/hr</td>
<td>280m³/hr</td>
<td>120m³/hr</td>
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<tr>
<td>Output</td>
<td>480 W</td>
<td>1610 W</td>
<td>1200 W</td>
<td>1200 W</td>
<td>1300 W</td>
</tr>
<tr>
<td>Filter system</td>
<td>Teflon filter cartridge, automatic cleaning feature</td>
<td>Teflon filter cartridge, automatic cleaning feature</td>
<td>dust drawer, HEPA filter</td>
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<td>dust drawer, HEPA filter</td>
</tr>
<tr>
<td>Filter volume</td>
<td>8 liters</td>
<td>8 liters</td>
<td>25 liters</td>
<td>15 liters</td>
<td>25 liters</td>
</tr>
<tr>
<td>W x D x H</td>
<td>9.6 x 19.6 x 17.3 inch</td>
<td>10.6 x 21.2 x 21.1 inch</td>
<td>17.3 x 18.1 x 28.5 inch</td>
<td>13.7 x 13.7 x 39.3 inch</td>
<td>18.5 x 25.1 x 34.6 inch</td>
</tr>
</tbody>
</table>

*Suction systems are not designed for continuous operation.

Sintering Furnaces

iSINT eco

The iSINT eco stands for economy and offers high-quality technology, matching accessories for high standards at a fair price. Compact and with a small footprint, the iSINT eco sintering oven still has sufficient capacity for a sintering bowl Ø 100 mm for approx. 25 units. The door stop can be mounted at the right or left side.

Number of heating elements 4
Display 7-Segment
Number of program memories 9
Combustion chamber capacity 1 x 100
max. heating rate in °C/min 30
Power in Watt 1720
Lift function No
Speedsintering No

iSINT PRO

A larger sintering capacity of up to 80 single crowns is offered by the new iSINT PRO. With a heating system of four high-quality molybdenum disilicide (MoSi2) heating elements, you can choose between conventional long-term sintering or SPEED sintering at a rate of up to 99 °C/minute. The iSINT PRO is operated with a simple and convenient program control. The programs are indicated on a 4-line LCD display. A timer function for overnight sintering or the use of pre-drying programs for shaded zirconium restorations offer further options. In addition, three service programs are available for easy maintenance of the sinter furnace.

Number of heating elements 4
Display 4-line LCD
Number of program memories 30
Combustion chamber capacity 2 x 120
max. heating rate in °C/min 99
Power in Watt 3200
Lift function Yes
Speedsintering Yes
CORITEC 250i / 250i dry

CORITEC 250i Loader PRO

**Dimensions**

**CORITEC 250i / 250i dry**

- Mechanics / electronics
  - Basic construction: granite/aluminium
  - Number of axes and operation type: 5-axis, simultaneous machining
  - Rotation angle: A-axis 360° / B-axis ± 100°
  - Spindle / power: High-frequency spindle / 0.4 kW
  - Maximum spindle speed: 60,000 rpm
  - Blank changer: Not available
  - Tools: Milling and grinding tools with 3 mm shaft diameter
  - Tool changer integrated: 12-times
  - Tool length control: ≤ 0.002 mm precision
  - Integrated computer hardware: Windows based
  - Monitor: Integrated 10” touch screen
  - Illumination: 3 LED status colors
  - Software: Remote DENTAL 3.0
  - Air pressure: 3 bar constantly supply, 50 liters/minute
  - Cooling liquid: 1.8 liter integrated
  - Weight: 95 kg
  - Width x depth x height: 21.4 x 25.5 x 24 inch / 544 x 650 x 612 mm
  - Line voltage / frequency: 100 V - 240 V / 50/60 Hz

**CORITEC 250i Loader PRO**

- Mechanics / electronics
  - Basic construction: Mono cast body
  - Number of axes and operation type: 5-axis, simultaneous machining
  - Rotation angle: A-axis 360° / B-axis ± 100°
  - Spindle / power: High-frequency spindle / 0.4 kW
  - Maximum spindle speed: 100,000 rpm
  - Blank changer: 6-times
  - Tools: Milling and grinding tools with 3 mm shaft diameter
  - Tool changer integrated: 10-times
  - Tool length control: ≤ 0.002 mm precision
  - Integrated computer hardware: Windows based
  - Monitor: Integrated 12” touch screen
  - Illumination: 3 LED status colors
  - Software: Remote DENTAL 3.0
  - Air pressure: 3 bar constantly supply, 50 liters/minute, optional integrated compressor
  - Cooling liquid: 4.8 liter integrated
  - Weight: 95 kg
  - Width x depth x height: 30.7 x 23.7 x 27.9 inch / 780 x 610 x 710 mm
  - Line voltage / frequency: 100 V - 240 V / 50/60 Hz

**In Numbers**

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<tr>
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<th><strong>CORITEC 250i Loader PRO</strong></th>
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imes-icore® GmbH has been a leading manufacturer and technology partner since 2003 in the field of dental CAD/CAM systems and solutions.

With its unique range of dental milling and grinding systems imes-icore® offers a perfect selection for all individual requirements of dental laboratories, milling centres and dental practices of all sizes.

Our “Open-System” product philosophy makes it possible to easily integrate our milling machines into your existing workflow and to integrate them with your open scanners and your CAD/CAM software. We are open for your material selection.