



**imes-icore<sup>®</sup>**  
Dental & Medical Solutions



**CORiTEC<sup>®</sup> 250i Loader PRO**

# The features...



2-fold ionizer



Auto-calibration



Automated cleaning function



Adapter variety



Prefabricated Abutments

WITH FOCUS ON FLEXIBILITY,  
THE CORiTEC 250i Loader **PRO**  
SHOWS ITS STRENGTHS.



The fully automated 7-fold blank changer makes it possible to process multiple restorations successively without any delay. At the same time the system processes every restoration with the maximum precision. Thanks to the modular design of the blank changer it is also possible, to change the blank magazine with another new magazine easily.

The CORiTEC 250i Loader **PRO** is the perfect system for every dental technician who wants to work more independent. To support the idea of flexible working even more, the system comes with an integrated and fully-automated 16-fold tool changer. This feature saves a lot of time and grants the operator a maximum of flexibility. Just like the blank changer, the tool changer was also built modular. That means that it can also be easily and quickly exchanged with another tool magazine.

AUTOMATION IN THE SMALLEST SPACE –  
THERE IS NO OTHER SYSTEM THAT IMPLEMENTS  
THIS REQUIREMENT SO EFFECTIVELY.



Another highlight of the system is the powerful spindle. With an output of 750 watt and up to 100.000 rpm, the high-frequency spindle offers the best ratio of performance, speed and precision. A quality which can be felt with every restoration.

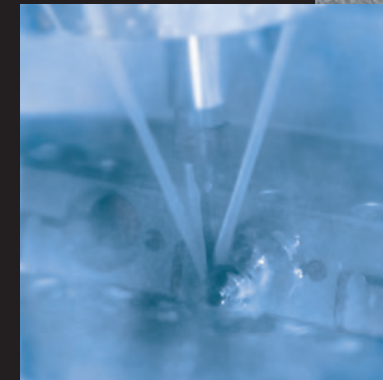
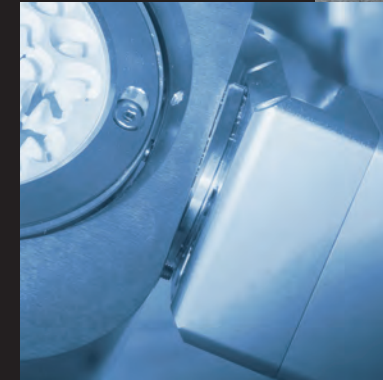
No matter which material will be used, the CORiTEC 250i Loader **PRO** processes every restoration with the fastest speed and highest precision. Zirconium dioxide and plastics can be easily milled as well as the grinding of glass ceramics and prefabricated abutments of metal are possible. This system guarantees the operator a maximum of flexibility and automation for the main used dental materials.





# CORiTEC® 250i Loader PRO

The compact 5-axis milling machine opens up a completely new machine segment at an attractive price-performance ratio. It offers automation and 5-axis simultaneous machining of circular blanks and blocks in the smallest space. The milling system is equipped with a fully automatic 16-fold tool magazine with 3 mm milling tools and an integrated touch-screen monitor, which facilitates an intuitive operation in conjunction with the new SmartControl™ software. The fully automatic 7-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!



- WET
- DRY
- 5 AX
- 3 mm  
16x
- 7x
- ION



# CORiTEC® 250i Loader PRO

## HIGHLIGHTS

- Novel, closed monoblock cast body
- 7-fold blank changer
- 16-fold tool changer
- Blank and tool magazine exchangeable
- Wet and dry machining possible
- Control PC with touchscreen integrated
- 2-fold integrated ionizer
- Processing of prefabricated abutments
- High precision due to integrated temperature compensation
- High-frequency spindle
- Minimal footprint
- Auto-calibration
- Automated cleaning function

FULL AUTOMATION  
7 blanks in one blank magazine, exchangeable

7-fold blank magazine

AUTOMATIC BLANK CLAMPING SYSTEM

POWERFUL PERFORMANCE  
High-end spindle for milling and grinding up to 100.000 rpm at 750 Watt

16-FOLD TOOL CHANGER, TOOL MAGAZINE INTERCHANGEABLE

WET AND DRY MACHINING POSSIBLE

ERGONOMIC HANDLING  
Control PC with touchscreen integrated

PMMA	WAX	Standard	PreMilled Abutment	Dentures	Crown, Bridge	Inlay, Onlay, Veneer	Hybrid Abutment	Splint
Zr	COMPOSITE							
PEEK	PreFab Abutments							
Glass ceramics	Ti							
CoCr								
		C-Clamp	Block	Automatic clamping system	Full Denture	Model	Surgical guide	Model casting
					Bridge	Telescopic technology	Abutment	Hybrid machining



# Applications & holder

## MANUFACTURE OF DENTAL PROSTHESIS



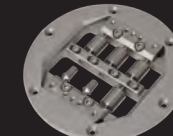
### PREFABRICATED ABUTMENTS

- Short production times
- Production of abutments in very simple processes
- High accuracy of fit due to prefabricated implant interface

DESS  
Abutmentholder



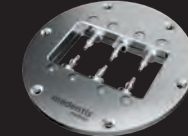
NT-Preform® Abutment  
(nt-trading)



PreFace® Abutment  
(Medentika)



MED-Preform® Abutment  
(medentis)



ELOS premilled  
Abutment System



### THERAPEUTIC SPLINTS

- Bite splints, bleaching splints
- Snoring splints, aligners
- Simple and high-quality implementation in CAD/CAM processes

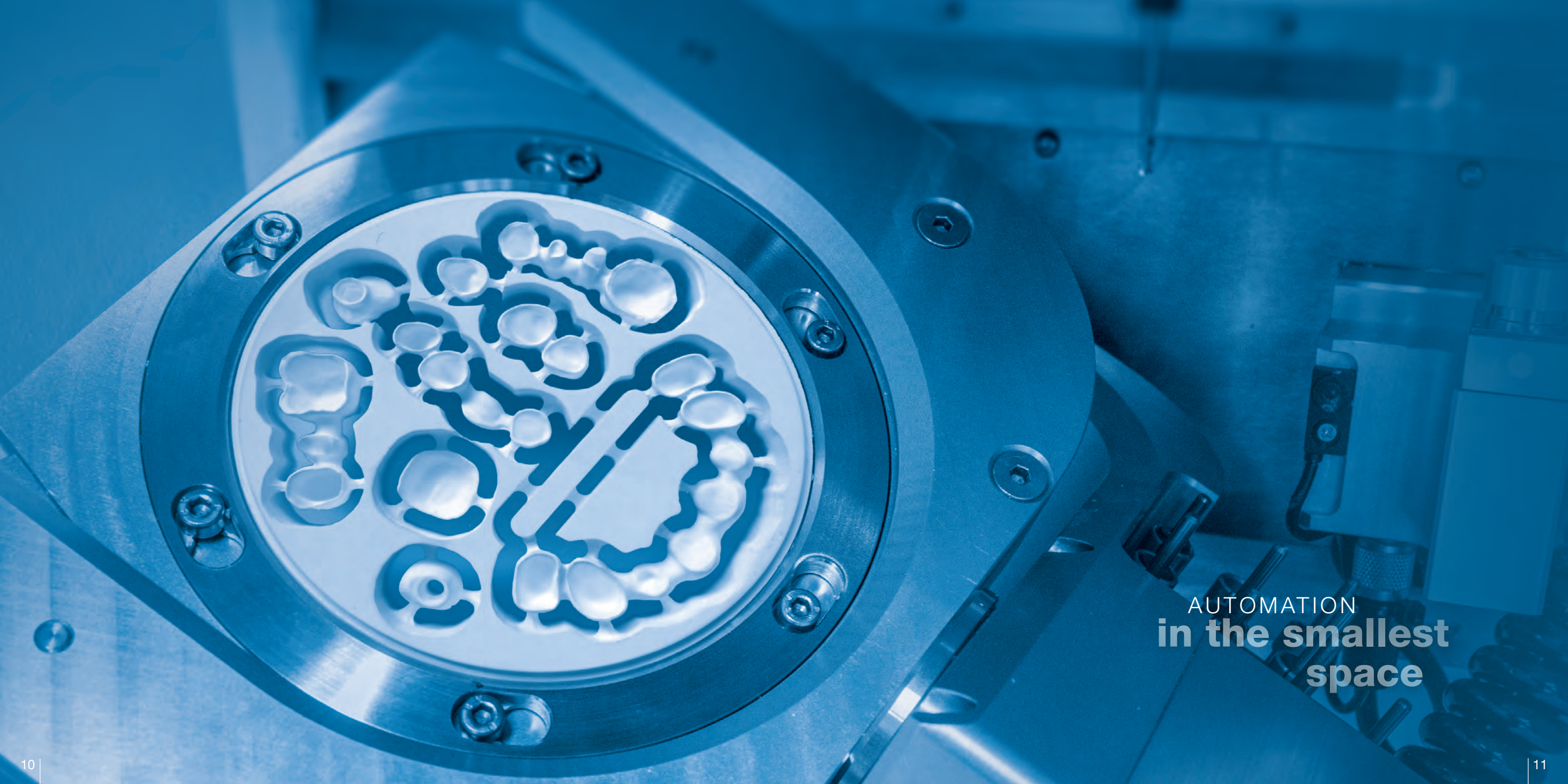


### GRINDING OF CAD/CAM BLOCKS

- New 6-fold adapter enables effective production
- Exchangeable strips for different adapter systems
- Crowns, onlays, inlays, veneers, bridge frameworks etc.







AUTOMATION  
**in the smallest  
space**



# Cutters & grinders | 3 mm shaft

CUSTOMIZED SOLUTIONS OPTIMIZED FOR THE  
CORiTEC 250i Loader **PRO**

T1/T6 - 3.0 | 3.0 mm  
radius milling tool (l = 15 mm)



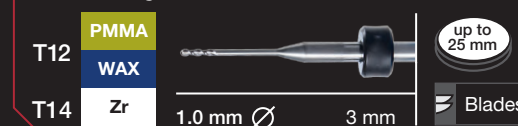
Art.-No. 530029 3003

T5/T10/T17 - 1.5 | 3.0 mm  
shaft milling tool (l = 15 mm), universal



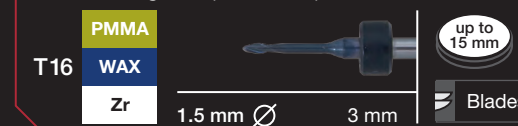
Art.-No. 530001 1503

T12/T14 - 1.0 | 3.0 mm  
radius milling tool



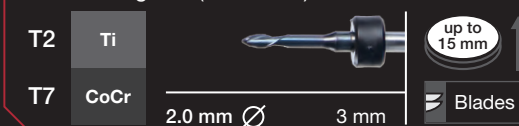
Art.-No. 530016 1003

T16 - 1.5 | 3.0 mm  
radius milling tool (l = 15 mm)



Art.-No. 530016 1503

T2/T7 - 2.0 | 3.0 mm  
radius milling tool (l = 12 mm)



Art.-No. 530029 2003

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



Art.-No. 530004 2503

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



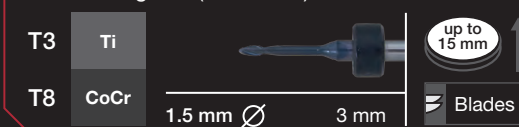
Art.-No. 530013 2503

T19 - 0.5 | 3.0 mm  
shaft milling tool (l = 4 mm), universal



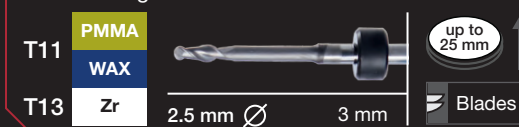
Art.-No. 530001 0503

T3/T8 - 1.5 | 3.0 mm  
radius milling tool (l = 12 mm)



Art.-No. 530029 1503

T11/T13 - 2.5 | 3.0 mm  
radius milling tool



Art.-No. 530016 2503

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



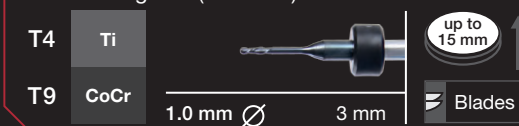
Art.-No. 530013 1003

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



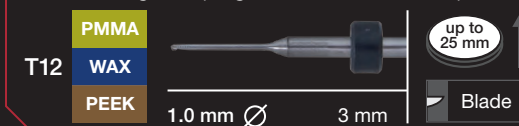
Art.-No. 530003 0603

T4/T9 - 1.0 | 3.0 mm  
radius milling tool (l = 9 mm)



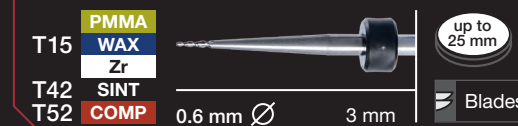
Art.-No. 530029 1003

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



Art.-No. 530004 1003

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



Art.-No. 526016 0603

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

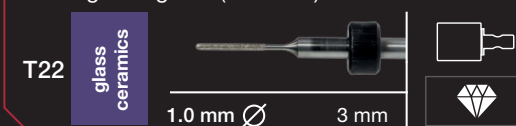


Art.-No. 530005 2503

# Cutters & grinders | 3 mm shaft

CUSTOMIZED SOLUTIONS OPTIMIZED FOR THE  
CORiTEC 250i Loader **PRO**

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



Art.-No. 530005 1003

T32 - 0.6 | 3.0 mm  
radius milling tool long (l = 12 mm)



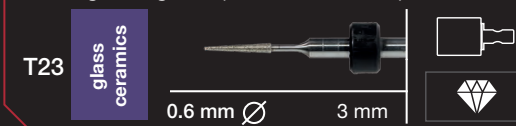
Art.-No. 530012 0603

T98 - 2.5 | 3.0 mm  
shaft milling tool (l = 20 mm, three blades)



Art.-No. 530024 2503

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



Art.-No. 530005 0603

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



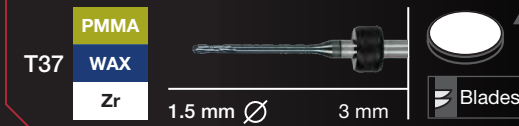
Art.-No. 530016 0903

T24 - 1.5 | 3.0 mm  
radius grinding tool (diamond)



Art.-No. 530005 1503

T37 - 1.5 | 3.0 mm  
torus milling tool (r = 0,08 mm, l = 20 mm)



Art.-No. 530035 1503

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



Art.-No. 530012 3003

T58/59 - 2.0 | 3.0 mm  
highspeed milling tool short (l=15 mm)



Art.-No. 530031 2003



# Materials

## priti® MULTIDISC (ZIRCONIUM DIOXIDE)

High-end zirconium dioxide for the highest mechanical and aesthetic demands. Indications for use include up to 16-unit bridges, limited to a maximum of 3-unit bridges for High Translucent.

A large selection of colors and heights is available.

	Translucency	Strength
Multi Translucent PLUS	49-45 %	800 – 1150 MPa
Multi Translucent	49-40 %	800 – 1150 MPa
High Translucent	49 %	> 650 MPa
Extra Translucent	45 %	> 1150 MPa
Translucent	40 %	> 1150 MPa
Opaque	35 %	> 1150 MPa



## CORTEC SPLINT COMFORT POLYMERS

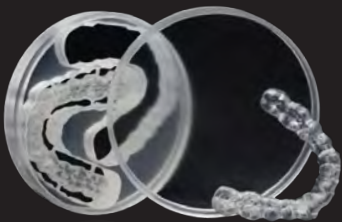
Extremely comfortable and biocompatible material for the manufacturing of therapeutic splints such as occlusal or stabilization splints. Becomes more flexible at mouth temperature for maximum wearing comfort.

Available in 16 mm and 20 mm.

## CORTEC SPLINT BASIC POLYMERS

Crystal-clear material for the manufacturing of therapeutic splints and drilling templates.

Available in 16 mm and 20 mm.



## CORTEC TEMP PMMA DISC

An excellently processable material suitable for long-term provisionals with a wear duration of up to three years, including intrinsic color gradients.

Available in 8 Vita colors in 16 mm and 20 mm.



## CORTEC GUM PMMA DISC

For gingiva replacement, available in 25 mm.



## CORTEC TITAN GRADE 5 DISC

CORTEC Titan Grade 5 milling blanks made of titanium alloys are particularly suitable for the production of dental implants, bridge work, and combination work. This material is characterized by excellent millability and very good biocompatibility.



TO priti®MULTIDISC &  
CORTEC MATERIALS

# CORiTEC® SmartControl

SMART CONTROL OF MACHINE SOFTWARE

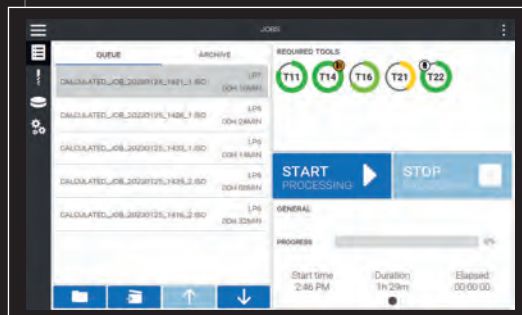
## SmartControl one touch ahead!

The newly developed control software SmartControl 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 – you benefit from the smart time savings for your workflow!

## FEATURES

- Modern design and simple touch operation
- Intelligent selection of milling jobs
- Easy tool and material loading
- Auto-calibration of the machine
- Wizard guided cleaning and maintenance
- Connection to the Dental Smart Market (DSM)
- Multilingual program interface
- Automatic update function

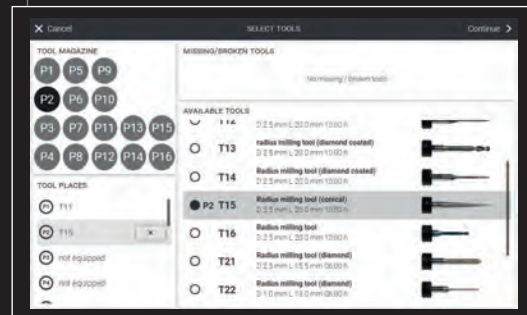
automated transfer of information  
from the CAM software



optimized for touchscreen operation



ideal tool management



## Scanner COMPATIBLE WITH exocad

### CORiTEC i3Dscan color

- Automatic object guidance into the measuring field
- Modern touch-operation 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



## CAM software

### CORiTEC iCAM V5 smart

- 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”

### CORiTEC iCAMHD

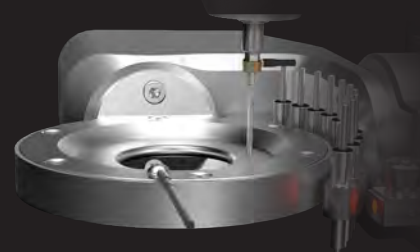
- hyperDENT based CAM software
- Flexible payment model (purchase or subscription model)



## Auto-calibration

FAST, PRECISE, COST-EFFICIENT

Auto-calibration allows both dentist and dental technician a quick and easy handling to ensure lasting precision without compromise.





# 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 T250
790 x 900 x 598 mm B x H x T (mm)

# Suction systems

	iVAC silent PRO	iVAC eco+
Volume flow	240m³/hr	260m³/hr
Output	1610 watt	1200 watt
Filter system	Teflon filter cartridge, automatic cleaning feature	dust drawer, HEPA filter
Filter volume	8 liters / 30.28 gpm	25 liters / 94.63 gpm
W x D x H	10.6 x 21.2 x 21.1 inch 270 x 540 x 535 mm	17.3 x 18.1 x 29.5 inch 440 x 460 x 750 mm
Supply voltage	115 V/230 V	115 V /230 V



MASCHINENTISCH T250



# Sintering Furnaces

## iSINT eco

The iSINT eco offers high-quality technology as well as suitable accessories for high demands 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.



## iSINT PRO

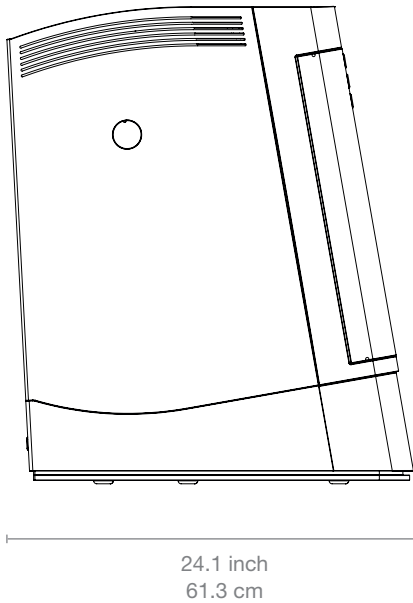
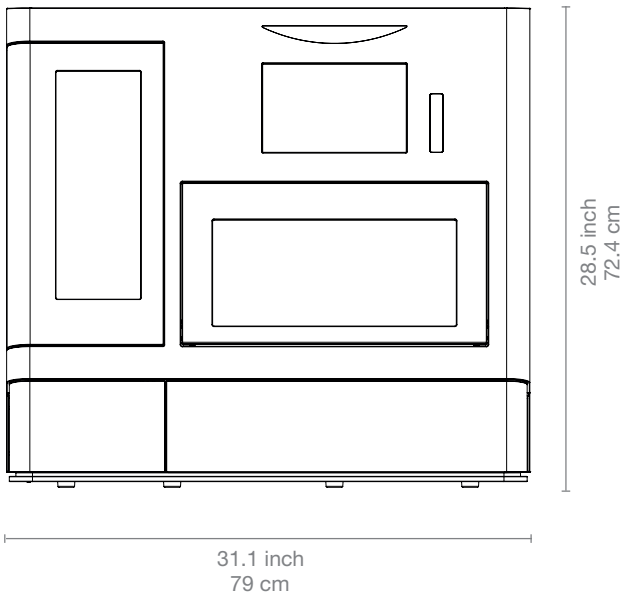
A larger sintering capacity of up to 80 single crowns is offered by the new iSINT PRO. With a heating system of four high-quality molybdenum disilicide (MoSi2) heating elements, you can choose between conventional long-term sintering or SPEED sintering at a rate of up to 99 °C/min/ 210.20 °F/min. The 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.



	iSINT eco	iSINT PRO
Number of heating elements	4	4
Display	7-segment	4-line LCD
Number of program memories	9	30
Combustion chamber capacity	1 x 100	2 x 120
Max. heating rate	30 °C/min / 86 °F/min	99 °C/min / 210.20 °F/min
Power in Watt	1720	3200
Lift function	No	Yes
Speedsintering	No	Yes

# Dimensions

## CORiTEC® 250i Loader PRO



# In Numbers

## CORiTEC 250i Loader PRO

Mechanics / electronics	
Basic construction	Monoblock cast body, aluminium
Number of axes and operation type	5-axis, simultaneous machining
Rotation angle	A-axis 360° / B-axis up to ±30°
Spindle / power	High-frequency spindle / 750 watt
Maximum spindle speed	100.000 rpm
Blank changer	7-fold; magazine interchangeable
Tools	Milling and grinding tools with 3 mm shaft diameter
Tool changer integrated	16-fold, magazine interchangeable
Tool length control	≤ 0.002 mm precision
Integrated computer hardware	Windows based
Display	Control PC with 10.1" full HD touch screen integrated
Illumination	Dynamic LED illumination
Software	SmartControl™
Air pressure	7 bar/101.526 PSI constantly supply, 60 liters/min / 227.10 gpm/min
Cooling liquid	3.7 liter / 0.98 gal (US) integrated
Connecting requirements	
Weight	112 kg / 247 lbs
Width x depth x height	31.1 x 24.1 x 28.5 inch / 790 x 613 x 724 mm
Line voltage / frequency	100 V - 240 V / 50/60 Hz



# Sales and support partner worldwide



Represented for you in over 100 countries.

imes-icore® GmbH has been a leading manufacturer and technology partner since 2002 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.

imes-icore® GmbH

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