# CORiTEC 250i Loader PRO

# The features…


ION
2-fold ionizer


A | B
Auto calibration


Automated cleaning function


Adapter variety


Metal processing

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


exchangeable
**7-fold blank magazine/**
**9-fold** optional
// CORITEC 250I Loader PRO


T1 T2 T3
T4 T5 T6
T7 T8 T9
T12 T13 T14 T10 T11
T15 T16
**16-fold**
**tool changer,**
magazine exchangeable
// CORITEC 250I Loader PRO

The fully automated 7-fold blank changer (9-fold optional) 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 COR**i**TEC 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.

ION

A | B

AUTOMATION IN THE SMALLEST SPACE - NO OTHER SYSTEM IMPLEMENTS THIS REQUIREMENT SO WELL.

**high frequency spindle**
[750 watt, 100.000 rpm]

// CORITEC 250I Loader PRO

**5 axis** machining

// CORITEC 250I Loader PRO

Another highlight of the system is the powerful spindle. Thanks to a power 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 and. 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 conjuction with the new SmartControl™ software. The fully automatic 7-fold (optional 9-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!
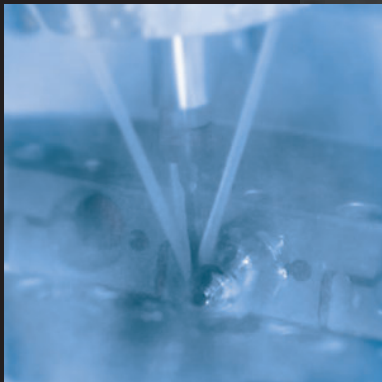
approx. 31.1 inch / 79 cm



CORiTEC
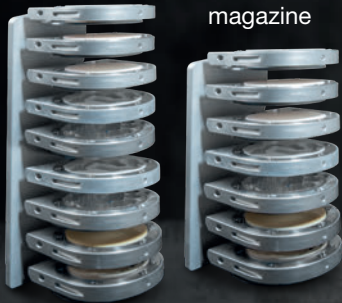250i
Loader PRO

# CORiTEC 250i Loader PRO

## HIGHLIGHTS

- Novel, closed mono-block cast body for stability and precision
- 7-fold blank changer (optional 9-fold)
- 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
- Metal processing

**FULL AUTOMATION**
7 or 9 blanks in one blank magazine, exchangeable

**AUTOMATIC BLANK CLAMPING SYSTEM**

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

Optional: 9-fold blank magazine

7-fold blank magazine

**16-FOLD TOOL CHANGER, TOOL MAGAZINE INTERCHANGEABLE**

imes-icore

COR TEC
250i
Loader

**WET AND DRY MACHINING POSSIBLE**

**ERGONOMIC HANDLING**
Control PC with touchscreen integrated

| | | |
|---|---|---|
| PMMA | WAX | |
| Zr | COMPOSITE | |
| PEEK | SINT | |
| Glass ceramics | PreFab Abutments | |
| CoCr | Ti | |

Standard

PreMilled Abutment

Dentures

C-Clamp

Block

automatic clamping system

Crown, Bridge

Inlay, Onlay, Veneer

Hybrid Abutment

Splint

Full Denture

Model

Drilling template

Model casting

Bridge

Telescopic technology

Abutment

Hybrid machining
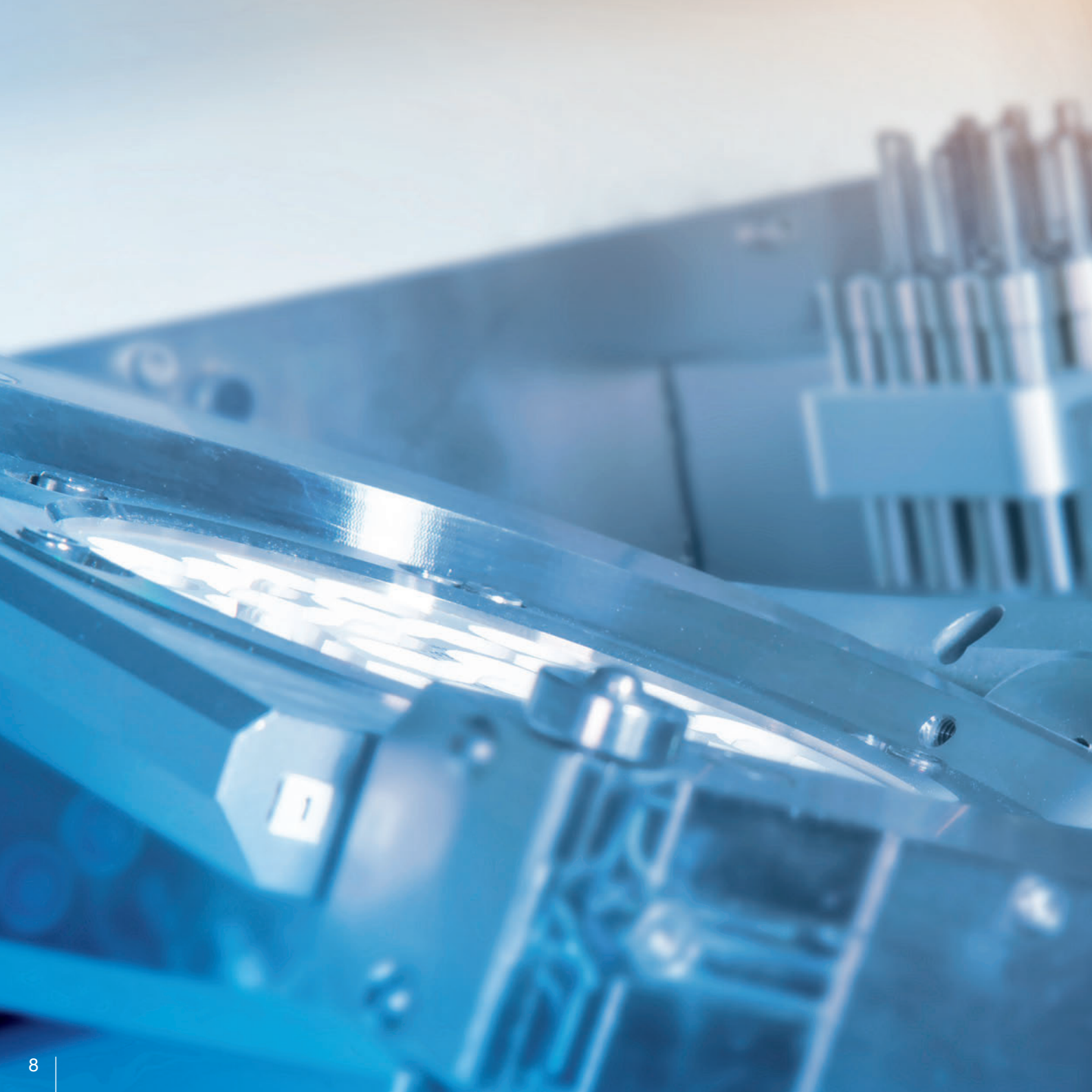
# Applications & holder
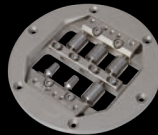
## MANUFACTURE OF DENTAL PROSTHESIS

---

## PREFABRICATED ABUTMENTS

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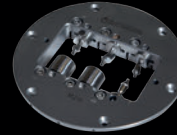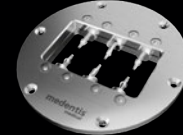- High accuracy of fit due to prefabricated implant interface

| DESS Abutmentholder | NT-Preform® Abutment (nt-trading) | PreFace® Abutment (Medentika) | MED-Preform® Abutment (medentis) |
|---|---|---|---|

---

## 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.

CORiTEC 250i Loader **PRO** TOOLS

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

| T1 | Ti |
| T6 | CoCr |

3.0 mm Ø   3 mm
up to 15 mm — Blades
Art.-No. 526029 3003

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

| T2 | Ti |
| T7 | CoCr |

2.0 mm Ø   3 mm
up to 15 mm — Blades
Art.-No. 526029 2003

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

| T3 | Ti |
| T8 | CoCr |

1.5 mm Ø   3 mm
up to 15 mm — Blades
Art.-No. 526029 1503

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

| T4 | Ti |
| T9 | CoCr |

1.0 mm Ø   3 mm
up to 15 mm — Blades
Art.-No. 526029 1003

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

| T5 | Ti |
| T10 | CoCr |
| T17 | PMMA / WAX / Zr |

1.5 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526001 1503

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

| T11 | PMMA / WAX / PEEK |

2.5 mm Ø   3 mm
up to 25 mm — Blade
Art.-No. 526004 2503c

### T11/T13 - 2.5 l 3.0 mm
radius milling tool

| T11 | PMMA / WAX |
| T13 | Zr |

2.5 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526016 2503

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

| T12 | PMMA / WAX / PEEK |

1.0 mm Ø   3 mm
up to 25 mm — Blade
Art.-No. 526004 1003c

### T12/T14 - 1.0 l 3.0 mm
radius milling tool

| T12 | PMMA / WAX |
| T14 | Zr |

1.0 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526016 1003

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

| T13 | Zr |
| T40 | SINT |
| T50 | COMP |

2.5 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526013 2503

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

| T14 | Zr |
| T41 | SINT |
| T51 | COMP |

1.0 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526013 1003

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

| T15 | PMMA / WAX / Zr |
| T42 | SINT |
| T52 | COMP |

0.6 mm Ø   3 mm
up to 25 mm — Blades
Art.-No. 526016 0603

## T16 - 1.5 I 3.0 mm
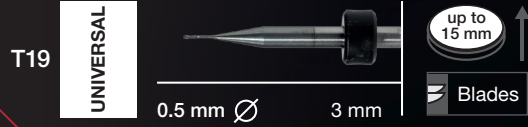radius milling tool (l = 15 mm)
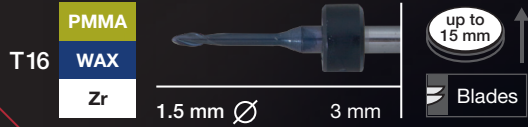
| T16 | PMMA |
| | WAX |
| | Zr |

1.5 mm ∅    3 mm

up to 15 mm

Blades

## T19 - 0,5 I 3.0 mm
shaft milling tool (l = 4 mm), universal

| T19 | UNIVERSAL |

0.5 mm ∅    3 mm

up to 15 mm

Blades

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

| T20 | Ti |
| | CoCr |

0.6 mm ∅    3 mm

up to 15 mm

Blades

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

| T21 | glass ceramics |

2.5 mm ∅    3 mm

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

| T22 | glass ceramics |

1.0 mm ∅    3 mm

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

| T23 | glass ceramics |

0.6 mm ∅    3 mm

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

| T31 | PMMA |
| | WAX |
| | Zr |

3.0 mm ∅    3 mm

up to 30 mm

Blade

## T32 - 0.6 I 3.0 mm
radius milling tool long (l = 12 mm)
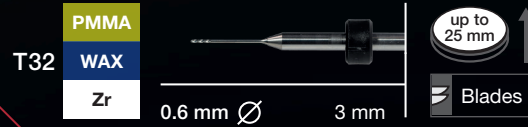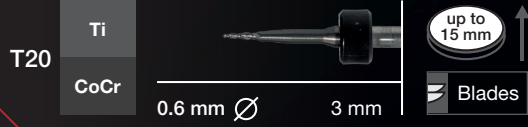
| T32 | PMMA |
| | WAX |
| | Zr |

0.6 mm ∅    3 mm

up to 25 mm

Blades

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

| T33 | PMMA |
| | WAX |
| | Zr |
| T43 | SINT |
| T53 | COMP |

0.3 mm ∅    3 mm

up to 25 mm

Blades

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

| T98 | CALIBR. |

2.5 mm ∅    3 mm

Blades

CORiTEC 250i Loader PRO TOOLS

11

# 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 esthetics
- Increased strength compared to lithium dioxide

| Zr ht+ Disc (highly translucent) | Zr Disc | Zr transpa Disc | Zr transpa Disc (pre-colored translucent) |
|---|---|---|---|

## CORiTEC COCR AND TITANIUM

- Single crowns
- Single cap
- Bridges up to 16 units,
  full bridges, and PFM technology

- Good mechanical properties
- Good milling properties
- Corrosion resistant

| CoCr Disc (non-precious alloy) | CoCr Mo Disc (non-precious alloy) | Ti Disc (Grad 2, Grad 4, Grad 5) |
|---|---|---|

## JUVORA PEEK

- 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

- Bite guards, therapeutic splints,
  drilling templates, bite regulators

- Very good mechanical properties
- Aesthetic shade effect due to high translucency
- Good milling behaviour

**PMMA Splint Disc**

**PMMA Disc**

## 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 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 – benefit from the smart time savings for your workflow!

## FEATURES

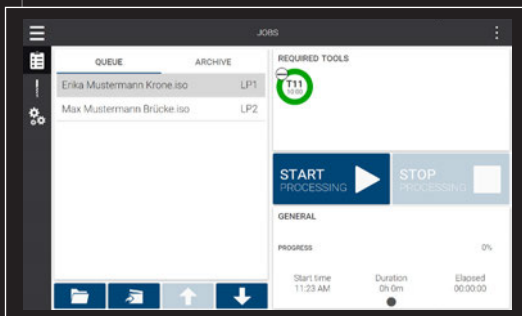- Modern touch control design
- Straightforward operation with intuitive graphical interface
- High end performance for imes-icore® machines
- Remote monitoring
- Job management with 3D preview
- Tool/material management
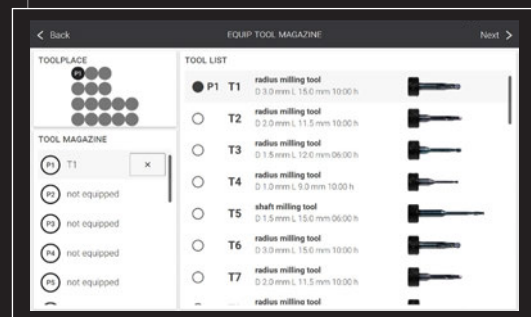- Multi-language support*

**optimized for touchscreen operation**
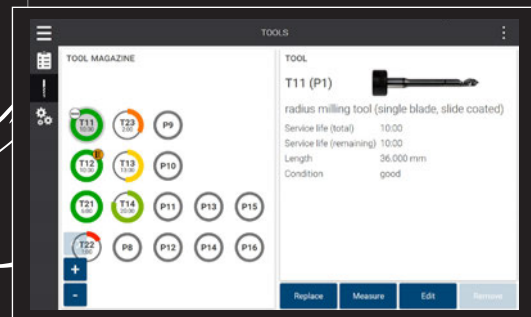


**automated transfer of information from the CAM software**



**ideal tool management**



* in preparation

# Scanner COMPATIBLE WITH exocad

## 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



---

# 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)
- Three months free use with CORiTEC 150i machine purchase
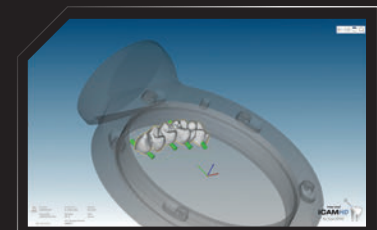
# Machine tables

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 T2

| Machine Table T2 |
| --- |
| 41.7 x 36.6 x 31.1 inch<br>1060 x 930 x 790 mm<br>W x H x D |

# Suction systems

| | iVAC silent PRO | iVAC eco+ |
| --- | --- | --- |
| Volume flow | 240 m³/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<br>270 x 540 x 535 mm | 17.3 x 18.1 x 29.5 inch<br>440 x 460 x 750 mm |
| Supply voltage | 115 V/230 V | 115 V /230 V |

# 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.

## 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



31.1 inch
79 cm

28.5 inch
72.4 cm



24.1 inch
61.3 cm
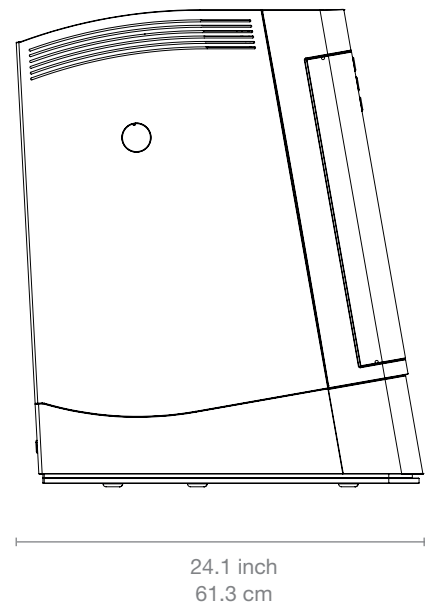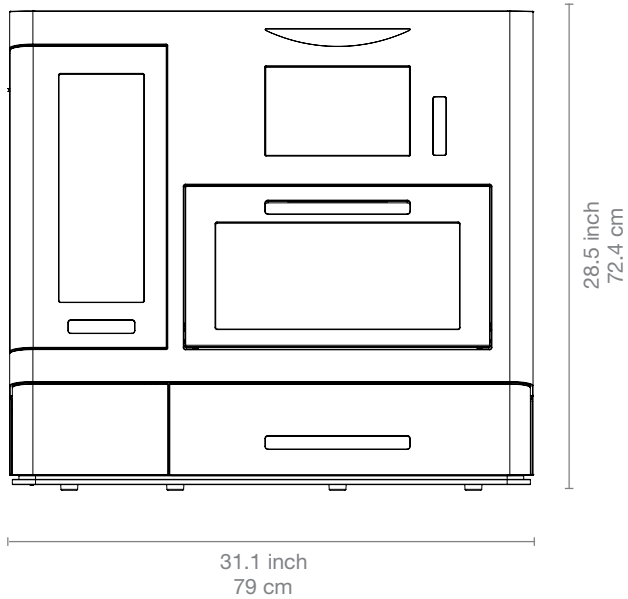
# In Numbers

**COR**i**TEC 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 up to ±30° |
| Spindle / power | High-frequency spindle / 750 watt |
| Maximum spindle speed | 100.000 rpm |
| Blank changer | 7-fold / 9-fold optional; 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 |
| Monitor | Control PC with 10.1" touchscreen integrated |
| Illumination | 3 LED status colors |
| Software | SmartControl™ |
| Air pressure | 7 bar/101.526 PSI constantly supply, 60 liters/min / 227.10 gpm/min |
| Cooling liquid | 3.7 liter / 18.17 gpm integrated |
| **Connecting requirements** | |
| Weight | 112 kg / 209.47 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 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.

Dealer for the Netherlands:

**www.ubervo.nl**

**uberVo**
DENTAL B.V.