![imes-icore logo](competence in dental solutions)



# COR**i**TEC 150i series

# The COR**i**TEC 150i series

## WHAT ARE THE DIFFERENCES?

| | COR**i**TEC 150i PRO | COR**i**TEC 150i dry | COR**i**TEC 150i dry eco |
|---|---|---|---|
| PC | integrated | integrated | external PC required |
| Touchscreen | ✔ | ✔ | - |
| Integrated PC | ✔ | ✔ | - |
| Premilled Abutments | ✔ (CoCr / Ti) | ✔ (CoCr) | ✔ (CoCr) |
| Wet processing | ✔ | - | - |
| Dry processing | ✔ | ✔ | ✔ |
| Metal processing** | ✔ | ✔ | ✔ |
| Integrated water tank | ✔ | - | - |
| Ionizer | ✔ | ✔ | optional |
| Auto calibration* | ✔ | ✔ | ✔ |
| Chip tray | - | ✔ | optional |
| 98mm blank holder | ✔ | ✔ | ✔ |
| 6-fold glass ceramic holder | optional | - | - |

*in preparation  |  **limited metal processing in preparation

VERSATILE IN
**all cases**

# The new features...

Minimum compressed air requirement

ION
Integrated ionizer

A|B
Auto calibration*

Automated cleaning function*

Large number of holder systems

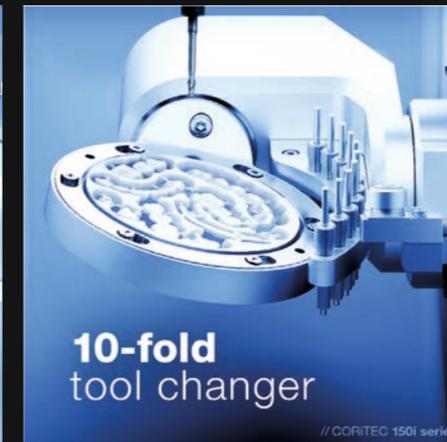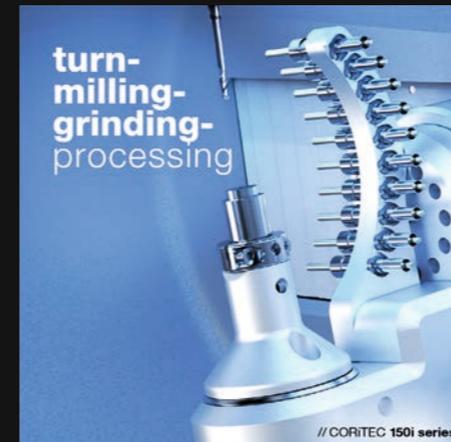Metal processing**

WHETHER WET OR DRY
MACHINING, BLOCK OR BLANK
FORM, THE CORiTEC 150i SERIES
IMPRESSES IN ALL AREAS.



Each restoration is fabricated with optimum precision and, at the same time, the flexibility opens up an almost free choice of materials and indications. Milling and grinding of zirconium, plastics and metal** is possible, as is the machining of CAD/CAM blocks and Pre-milled abutments. The CORiTEC 150i offers an unrivalled variety of applications in a very small space.

UNLIMITED FLEXIBILITY IN MILLING
AND GRINDING – THAT'S THE PROMISE
OF THE CORiTEC 150i SERIES



Thanks to a machining angle of up to 360°/130° (A-axis/B-axis), the system is able to effortlessly master even the most demanding tasks. The 10 tool places additionally increase the flexibility of the new CORiTEC 150i series.

*In preparation | **Limited metal processing in preparation

# The new features...

MORE PERFORMANCE, MAXIMUM FLEXIBILITY AND EXTENDED APPLICATION POSSIBILITIES WITH MINIMAL SPACE REQUIREMENTS

An exceptional ratio of power, speed and precision – this is what the powerful high-frequency spindle with 750 W and 100.000 rpm offers. Thanks to the quick-clamping system, the various holder systems can be changed quickly and easily – while maintaining the same precision. Time-consuming calibrations are therefore unnecessary.



high frequency spindle [100.000 rpm]
// CORiTEC 150i series



manual quick clamping system
// CORiTEC 150i series



C-Clamp system
// CORiTEC 150i series



prefabricated abutments
// CORiTEC 150i series

A VARIETY OF HOLDING SYSTEMS OFFERS MAXIMUM FLEXIBILITY FOR MAXIMUM CHALLENGES

Also new is the support of the half-open blank holder, the so-called "C-Clamp". Thanks to its open shape, it allows even the most difficult indications to be produced.

# CORiTEC 150i PRO

## THE FLEXIBLE MILLING SYSTEM
## IN CONFINED SPACES

The extremely stable design of the mono-block cast body enables precise machining with round blanks and block forms. The machine's small dimensions and 5-axis simultaneous technology offers a unique ratio of machine size and functionality. Convince yourself of the performance of the CORiTEC 150i for your laboratory!

Available in three versions:



CORiTEC
**150i PRO**

DRY    WET



CORiTEC
**150i dry**

DRY



CORiTEC
**150i dryeco**

DRY

approx. 16.6 inch / 42.2 cm

WET

DRY

5 AX

3 mm
10x

ION

ERGONOMIC
HANDLING
simple graphical
touchscreen operation

EASY CLEANING
fully coated
enclosed wet cell

HALF-OPEN
BLANK HOLDER
"C-CLAMP"
(OPTIONAL)

POWERFUL PERFORMANCE
high end spindle for milling
and grinding work up to
100.000 rpm

WET AND DRY
PROCESSING POSSIBLE

INTEGRATED
WATER TANK
AND FILTRATION

INTEGRATED
TEMPERATURE COMPENSATION

# CORiTEC 150i PRO

## HIGHLIGHTS

- novel, closed mono-block cast body for highest stability and precision
- no external PC required
- half-open blank holder "C-Clamp" (optional)
- ionizer inclusive
- high precision due to integrated temperature compensation
- wet and dry machining possible
- minimum external compressed air, only 3 bar required
- short amortization period
- minimal footprint
- auto calibration*
- automated cleaning function*
- metal processing**
- turn-milling-grinding-processing possible

*In preparation | **Limited metal processing in preparation

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

Standard  PreMilled Abutment  Dentures

C-Clamp  Block  Manual clamping system

Crown, Bridge  Inlay, Onlay Veneer  Hybrid Abutment  Splint

Full Denture  Model  Drilling template  Model casting

Bridge  Telescopic technology  Abutment  Hybrid machining

**T1/T6 - 3.0 | 3.0 mm**
radius milling tool (l = 15 mm)
- T1 Ti
- T6 CoCr
- 3.0 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526029 3003

**T11/T13 - 2.5 | 3.0 mm**
radius milling tool
- T11 PMMA / WAX
- T13 Zr
- 2.5 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526016 2503

**T2/T7 - 2.0 | 3.0 mm**
radius milling tool (l = 12 mm)
- T2 Ti
- T7 CoCr
- 2.0 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526029 2003

**T12 - 1.0 | 3.0 mm**
radius milling tool (single blade, slide coated)
- T12 PMMA / WAX / PEEK
- 1.0 mm Ø | 3 mm | Blade | up to 25 mm
- Art.-No. 526004 1003c

**T3/T8 - 1.5 | 3.0 mm**
radius milling tool (l = 12 mm)
- T3 Ti
- T8 CoCr
- 1.5 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526029 1503

**T12/T14 - 1.0 | 3.0 mm**
radius milling tool
- T12 PMMA / WAX
- T14 Zr
- 1.0 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526016 1003

**T4/T9 - 1.0 | 3.0 mm**
radius milling tool (l = 9 mm)
- T4 Ti
- T9 CoCr
- 1.0 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526029 1003

**T13/T40/T50 - 2.5 | 3.0 mm**
radius milling tool (diamond coated)
- T13 Zr
- T40 SINT
- T50 COMP
- 2.5 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526013 2503

**T5/T10/T17 - 1.5 | 3.0 mm**
shaft milling tool (l = 15 mm), universal
- T5 Ti
- T10 CoCr
- PMMA
- T17 WAX / Zr
- 1.5 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526001 1503

**T14/T41/T51 - 1.0 | 3.0 mm**
radius milling tool (diamond coated)
- T14 Zr
- T41 SINT
- T51 COMP
- 1.0 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526013 1003

**T11 - 2.5 | 3.0 mm**
radius milling tool (single blade, slide coated)
- T11 PMMA / WAX / PEEK
- 2.5 mm Ø | 3 mm | Blade | up to 25 mm
- Art.-No. 526004 2503c

**T15/T42/T52 - 0.6 | 3.0 mm**
radius milling tool (conical)
- T15 PMMA / WAX / Zr
- T42 SINT
- T52 COMP
- 0.6 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526016 0603

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**T16 - 1.5 | 3.0 mm**
radius milling tool (l = 15 mm)
- T16 PMMA / WAX / Zr
- 1.5 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526016 1503

**T31 - 3.0 | 3.0 mm**
shaft milling tool (single blade, slide coated)
- T31 PMMA / WAX / Zr
- 3.0 mm Ø | 3 mm | Blade | up to 30 mm
- Art.-No. 526012 3003

**T19 - 0,5 | 3.0 mm**
shaft milling tool (l = 4 mm), universal
- T19 UNIVERSAL
- 0.5 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526001 0503

**T32 - 0.6 | 3.0 mm**
radius milling tool long (l = 12 mm)
- T32 PMMA / WAX / Zr
- 0.6 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526012 0603

**T20 - 0.6 | 3.0 mm**
radius milling tool (conical)
- T20 Ti
- CoCr
- 0.6 mm Ø | 3 mm | Blades | up to 15 mm
- Art.-No. 526003 0603

**T33/T43/T53 - 0.3 | 3.0 mm**
radius milling tool (conical)
- T33 PMMA / WAX / Zr
- T43 SINT
- T53 COMP
- 0.3 mm Ø | 3 mm | Blades | up to 25 mm
- Art.-No. 526016 0303

**T21 - 2.5 | 3.0 mm**
radius grinding tool (diamond)
- T21 glass ceramics
- 2.5 mm Ø | 3 mm
- Art.-No. 526005 2503

**T98 - 2.5 | 3.0 mm**
shaft milling tool (l = 20 mm, three blades)
- T98 CALIBR.
- 2.5 mm Ø | 3 mm | Blades
- Art.-No. 526024 2503

**T22 - 1.0 | 3.0 mm**
radius grinding tool (diamond)
- T22 glass ceramics
- 1.0 mm Ø | 3 mm
- Art.-No. 526005 1003

**T23 - 0.6 | 3.0 mm**
radius grinding tool (conical, diamond)
- T23 glass ceramics
- 0.6 mm Ø | 3 mm
- Art.-No. 526005 0603

# 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 ZR (ZIRCONIUM DIOXIDE)

- 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 (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

| 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
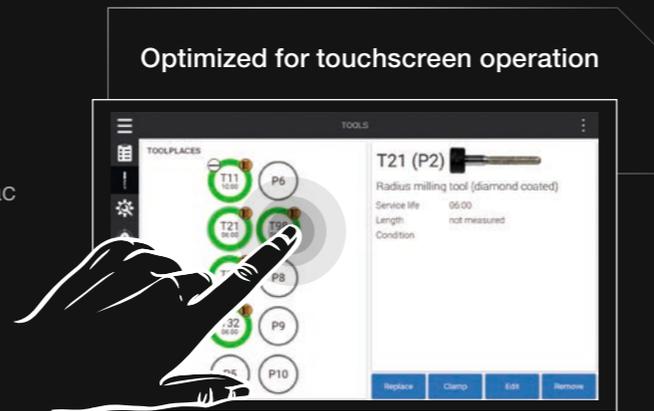
# CORiTEC SmartControl™

## SMART CONTROL OF MACHINE SOFTWARE

**SmartControl™ one touch ahead!**

The newly developed control software „SmartControl™" provides 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
- Easiest operation through intuitive graphical user interfac
- High end performance for imes-icore® machines
- Remote monitoring
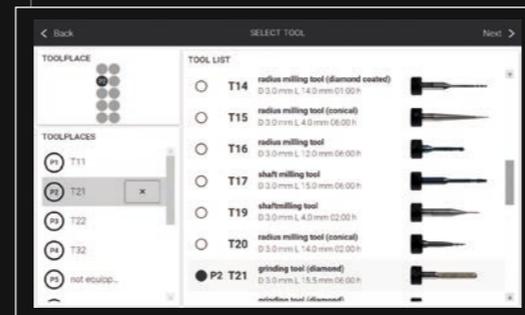- Job management with 3D preview
- Multi-language support*

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)
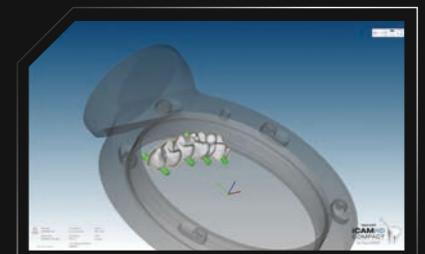- all modules included in the scope of delivery

# 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"
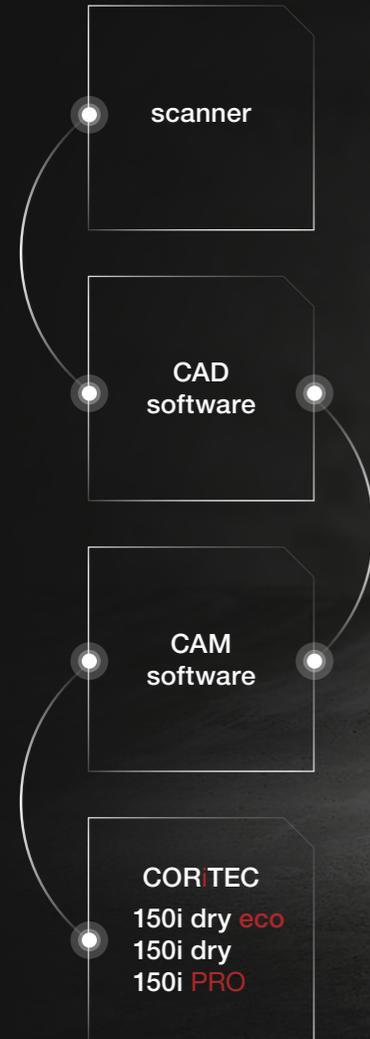
## CORiTEC iCAM HD compact

- hyperDENT based CAM software
- flexible payment model (purchase or subscription model)
- three months free use with CORiTEC 150i machine purchase

# Full integrated workflow

## OPEN TO ALL COMMON SCANNERS

scanner

CAD
software

CAM
software

COR*TEC*
150i dry eco
150i dry
150i PRO

# Applications & holders

## HALF-OPEN BLANK HOLDER (C-CLAMP)

• enables 5-axis machining up to 90 degrees axis adjustment
• extension of the technical possibilities of your milling machine

## UNIVERSAL HOLDER FOR TURN-MILL-GRINDING PROCESSING

• high precision
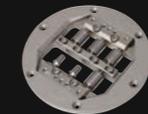• improved surface quality
• tool-saving machining

## PREFABRICATED ABUTMENTS

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

DESS
Abutmentholder

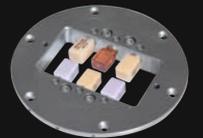NT-Preform® Abutment
(nt-trading)

PreFace® Abutment
(Medentika)

## 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.

## MILLING OF MODEL CASTS

• production in combustible materials (PEEK)
• allergy-free and lightweight model casting when using PEEK
• cost-efficient

# 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 Ø100 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 90 °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 W | 1300 | 3200 |
| Lift function | No | Yes |
| Speedsintering | No | Yes |

# Suction system

## iVAC silent & iVAC silent PRO

The system is equipped with a teflon filter catridge, automatic filter cleaning and a dust drawer. With the suction power of 160m³/h the iVAC silent is perfectly suited for your CORiTEC 150i and is even stowable in the optional machine table.

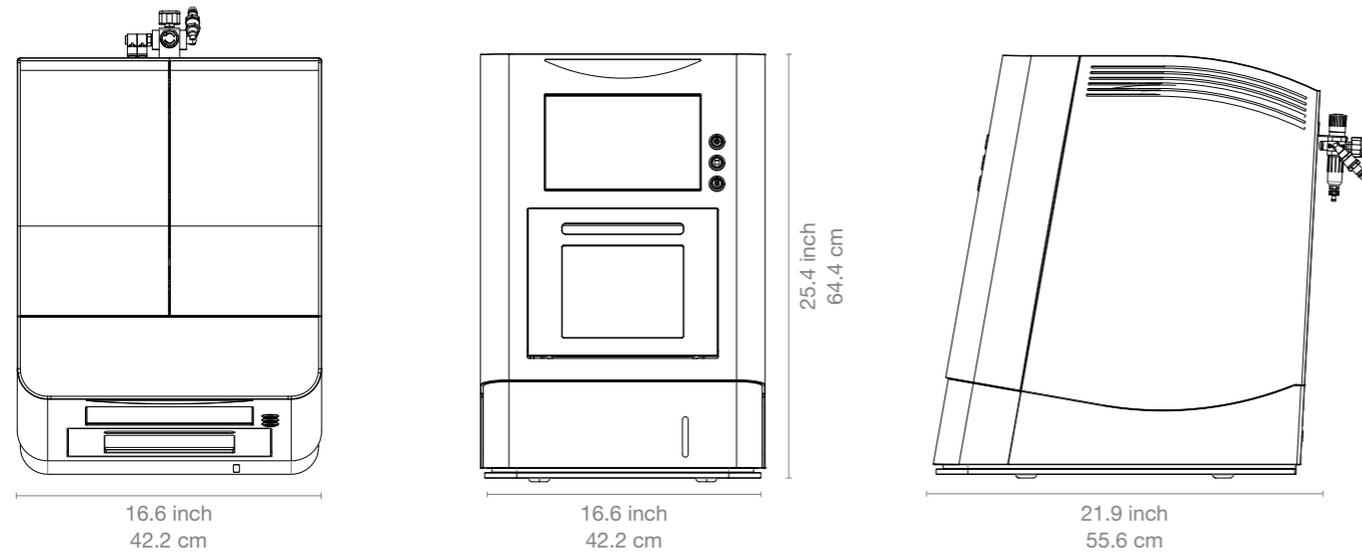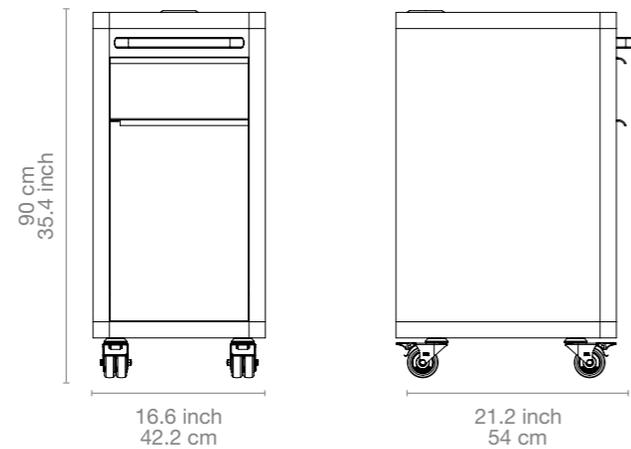|  | iVAC silent | iVAC silent PRO |
|---|---|---|
| airflow | 160 m³/hr | 240 m³/hr |
| power | 490 W | 1610 W |
| filter system | Teflon filter cartridge, automatic cleaning feature | Teflon filter cartridge, automatic cleaning feature |
| filter volume | 8 liters/30.28 gpm (dust drawer) | 8 liters/30.28 gpm (dust drawer) |
| width x depth x height | 9.6 x 19.6 x 17.3 inch / 245 x 500 x 440 mm | 10.6 x 21.2 x 21.1 inch / 270 x 540 x 535 mm |
| supply voltage | 230 V | 115 V/230 V |
| special features | suitable for machine tables T0, T1 and T2, quiet running, very compact, self-cleaning by vibration | suitable for machine tables T1 and T2, quiet running, very compact, self-cleaning by vibration |

# Machine table

## MACHINE TABLE T0

The machine table T0 is exactly adapted to the CORiTEC 150i series by its dimensions 422 x 540 x 900 mm/16.6 x 21.3 x 35.4 inch (W x D x H).

# Dimensions

## CORiTEC 150i series

16.6 inch
42.2 cm

16.6 inch
42.2 cm

25.4 inch
64,4 cm

21.9 inch
55.6 cm

## Machine table T0

90 cm
35.4 inch

16.6 inch
42.2 cm

21.2 inch
54 cm

# In numbers

| mechanics / electronics | |
|---|---|
| number of axes and operation type | 5 axes, simultaneous processing |
| rotation angle | A-axis 360°,  B-axis 130° |
| spindle / power | high-frequency spindle / 750 W |
| maximum spindle speed | 100.000 rpm |
| tools | milling and grinding tools with 3 mm tool shaft |
| tool changer | 10-fold |
| tool length control | ≤ 0.002 mm precision |
| integrated PC | Windows based |
| monitor | integrated 10'1" touchscreen (CORiTEC 150i dry & 150i PRO) |
| illumination | 3 LED status colors |
| software | SmartControl™ integrated CNC software |
| air pressure | 3 bar/43.5 PSI, 50l/min/189.25 gpm/min |
| cooling liquid | 3 liter/11.36 gpm integrated |
| connecting requirements | |
| weight | 75 kg / 165.38 lbs |
| width x depth x height | 16.6 x 21.9 x 25.4 inch / 422 x 556 x 644 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.

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