



**iCAMHD**  
*by hyperDENT*  
included



5 AX



6 mm  
1,0kW



**iCAM**  
integrated

DRY  
WET

CORiTEC 250i PRO+

# The Best Price- Performance Ratio

Unlimited Efficiency for Daily Lab Work

# Great Performance

TOP PRICE

The **CORITEC 250i PRO\*** is a new milling machine that impresses with its ideal balance of performance, versatility and space requirements. The optimally matched axis drives work vibration-free and thus ensure impressive production results. The solid basic structure made of an mono-block cast body ensures low-vibration movements.

The **CORITEC 250i PRO\*** is even ideally suited for the demanding processing of metal blanks (CoCr and Ti). Of course, all other materials commonly used in dental technology can also be professionally wet and dry milled or grinded.

ION

2-fold  
Ionizer

A  
B

Auto-  
calibration

Automated  
Cleaning  
Function

Zero Point  
Clamping System\*

Metal  
Processing

Wide Range  
of Holder Systems

MADE IN  
GERMANY

# ENORMOUS FLEXIBILITY at a High Technical Level



The system is controlled by SmartControl software, which provides intuitive operation via a full HD touchscreen.

A compact 5-axis milling machine with a powerful spindle that runs smoothly.



**5-Axis**  
Metal Processing



**High  
Frequency Spindle**  
60.000 rpm  
1.0 kW

6 mm shaft milling tools combined with the milling spindle meet the highest material requirements.

The iCAM HD software is included free of charge for 1 year with the purchase of the machine.



**iCAM HD** by hyperDENT  
Included

The tool magazine holds 10 tools and can be completely changed in one easy step, e.g. for different material groups.



Interchangeable  
**10-Fold**  
Tool Changer

## VERSATILE in Use

The image shows a large, white, wall-mounted medical device, the imes-icore CORTEC 250i PRO+. The device has a large, rectangular touchscreen display in the center, which shows a surgical room scene with a circular surgical light and a patient on a table. Below the screen, there is a control panel with several buttons, including a large red "PAUSE" button, a "STOP" button, and various other function buttons. The device is mounted on a wall, and the overall design is clean and professional.

5



# Materials and Applications

VERSATILE POSSIBILITIES



PMMA	WAX
Zr	COMPOSITE
PEEK	SINT
Glass Ceramics	PreFab Abutments
CoCr	Ti

Standard Blank Holder	PreMill Abutment Holder	Denture Holder
C-Clamp Holder	6-fold Adapter	Manual Clamping system

Crown, Bridge	Inlay, Onlay, Veneer	Hybrid Abutment	Splint
Full Denture	Model	Drilling Template	Model Casting
Bar	Telescopic Technology	Abutment	Hybrid Machining

# Holder & Applications

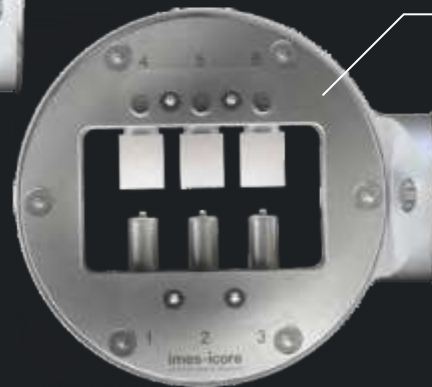
Blank holder



C-Clamp holder



6-fold adapter



## Blank Holder

- ✓ Closed stainless blank holder for high stability
- ✓ Processing of all common materials from blanks

## C-Clamp Holder

- ✓ Half-open blank holder
- ✓ Enables 5-axis machining up to a 90 degree axis angle
- ✓ Expands the technical capabilities of your milling machine

## 6-Fold Adapter

- ✓ Processing up to 6 blocks / abutments simultaneously
- ✓ Interchangeable strips for various adapter systems



## Manufacturing of Full Dentures by Milling

- ✓ Time and cost savings
- ✓ High reproducibility and accuracy of fit
- ✓ Flexible and functional denture base and occlusal design

## iCORTEC preMill Abutments

- ✓ Short production times
- ✓ Validated complete system for abutment fabrication
- ✓ High accuracy of fit with prefabricated implant interface



## Bars and Bridges

- ✓ High strength and stability
- ✓ CoCr and Titanium blanks
- ✓ Good surface finish and precision

## Grinding of CAD/CAM Blocks

- ✓ 6-fold adapter enables efficient fabrication
- ✓ Crowns, onlays, inlays, veneers, bridge frameworks



# Special Applications

for Metal Processing

## Highspeed Milling Tools

For high feed rates

**T60 - 3.0 | 6.0 mm**  
highspeed milling tool short (l=15 mm)

T60 Ti 3.0 mm Ø 6 mm up to 15 mm Blades Art.-No. 530031 3006

**T61 - 3.0 | 6.0 mm**  
quattro speed milling tool (l = 15 mm)

T61 CoCr 3.0 mm Ø 6 mm up to 15 mm Blades Art.-No. 526025 3006

## Torus Milling Tools

Precise and smooth surfaces when producing dentures. The special geometry ensures high precision and ideal milling results.

**T62 - 2.0 | 6.0 mm**  
torus milling tool (r = 0,2 mm, l = 16 mm, four blades)

T62 Ti CoCr 2.0 mm Ø 6 mm up to 15 mm Blades Art.-No. 526025 2006

**T63 - 1.5 | 6.0 mm**  
torus milling tool (r = 0,08 mm, l = 7 mm, two blades)

T63 Ti CoCr 1.5 mm Ø 6 mm up to 15 mm Blades Art.-No. 526025 1506

**T64 - 1.5 | 6.0 mm**  
torus milling tool (r = 0,08 mm, l = 15 mm, two blades)

T64 Ti CoCr 1.5 mm Ø 6 mm up to 15 mm Blades Art.-No. 526028 1506

## End mills

State-of-the-art end mills for perfect fits.

**T67 - 2.0 | 6.0 mm**  
shaft milling tool short (l = 7 mm, four blades)

T67 Ti CoCr 2.0 mm Ø 6 mm up to 15 mm Blades Art.-No. 526002 2006

**T68 - 1.5 | 6.0 mm**  
shaft milling tool long (l = 15 mm, four blades)

T68 Ti CoCr 1.5 mm Ø 6 mm up to 15 mm Blades Art.-No. 526021 1506

**T69 - 1.5 | 6.0 mm**  
shaft milling tool (l = 7 mm, four blades)

T69 Ti CoCr 1.5 mm Ø 6 mm up to 15 mm Blades Art.-No. 530032 1506

## Drilling Tools

Fast and precise production of drill channels in abutments, implants and bars.

**T80 - 2.5 | 6.0 mm**  
drilling tool (l = 22 mm)

T80 Ti CoCr 2.5 mm Ø 6 mm up to 20 mm Drill Art.-No. 526023 2506

**T81 - 1.5 | 6.0 mm**  
drilling tool (l = 18 mm)

T81 Ti CoCr 1.5 mm Ø 6 mm up to 20 mm Drill Art.-No. 526023 1506

**T82 - 2.65 | 6.0 mm**  
drilling tool (l = 21 mm)

T82 Ti CoCr 2.65 mm Ø 6 mm bis 20 mm Drill Art.-No. 526031 26506

**T83 - 2.25 | 6.0 mm**  
drilling tool (l = 21 mm)

T83 Ti CoCr 2.25 mm Ø 6 mm bis 20 mm Drill Art.-No. 526032 22506

# Thread Milling Tool M2

Simple and quick production of M2 threads in defined blind holes. Ideal for Rhein83 implant systems.


T103 - M2 | 6.0 mm  
Thread milling tool

Ti

CoCr

M2

6 mm





Art.-No. 526040 2006



# T-slot tools

High-performance T-slot milling cutter for angled screw channels and complex work with excellent results.

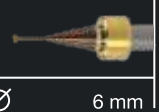
T121 - Ø 1.6 x 0.7 | 6.0 mm  
T-tool 90° (d = 0.65 mm, l = 7.5 mm, three blades)

Ti

CoCr

1.6 mm Ø

6 mm



Blades

Art.-No. 530040 1606


T122 - Ø 1.7 x 0.7 | 6.0 mm  
T-tool 90° (d = 0.65 mm, l = 8.0 mm, three blades)

Ti

CoCr

1.7 mm Ø

6 mm



Blades

Art.-No. 530040 1706


T123 - Ø 1.8 x 1.0 | 6.0 mm  
T-tool 90° (d = 0.9 mm, l = 7.1 mm, three blades)

Ti

CoCr

1.8 mm Ø

6 mm



Blades

Art.-No. 530040 1806


T124 - Ø 2.0 x 1.0 | 6.0 mm  
T-tool 90° (d = 1.0 mm, l = 9.5 mm, three blades)

Ti

CoCr

2.0 mm Ø

6 mm



Blades

Art.-No. 530040 2006

# Standard Tools

T1/T6 - 3.0 | 6.0 mm  
radius milling tool short (l = 15 mm)

T1

T6

Ti

CoCr

3.0 mm Ø

6 mm



up to 15 mm

Blades

Art.-No. 526029 3006

T2/T7 - 2.0 | 6.0 mm  
radius milling tool short (l = 12 mm)

T2


T7

Ti

CoCr

2.0 mm Ø

6 mm



up to 15 mm

Blades

Art.-No. 526029 2006

T3/T8 - 1.5 | 6.0 mm  
radius milling tool short (l = 12 mm)

T3


T8

Ti

CoCr

1.5 mm Ø

6 mm



up to 15 mm

Blades

Art.-No. 526029 1506

T4/T9 - 1.0 | 6.0 mm  
radius milling tool short (l = 9 mm)

T4

T9

Ti

CoCr

1.0 mm Ø

6 mm



up to 15 mm

Blades

Art.-No. 526029 1006

T5/T10 - 1.5 | 6.0 mm  
shaft milling tool short (l = 12 mm, four blades)

T5


T10

Ti

CoCr

1.5 mm Ø

6 mm



up to 15 mm

Blades

Art.-No. 526002 1506

T11 - 2.5 | 6.0 mm  
radius milling tool (single blade, slide coated)


PMMA

WAX

PEEK

2.5 mm Ø

6 mm



up to 25 mm

Blade

Art.-No. 530004 2506

T11/T13 - 2.5 | 6.0 mm  
radius milling tool

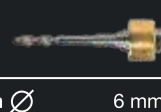
PMMA

WAX

Zr

2.5 mm Ø

6 mm



up to 25 mm

Blades

Art.-No. 526019 2506

T12 - 1.0 | 6.0 mm  
radius milling tool (single blade, slide coated)

PMMA

WAX

PEEK

1.0 mm Ø

6 mm



up to 25 mm

Blade

Art.-No. 530004 1006

T12/T14 - 1.0 | 6.0 mm  
radius milling tool


PMMA

WAX

Zr

1.0 mm Ø

6 mm



up to 25 mm

Blades

Art.-No. 526019 1006

T13/T40/T50 - 2.5 | 6.0 mm  
radius milling tool (diamond coated)


Zr

SINT

COMP

2.5 mm Ø

6 mm



up to 25 mm

Blades

Art.-No. 526013 2506

T14/T41/T51 - 1.0 | 6.0 mm  
radius milling tool (diamond coated)


Zr

SINT

COMP

1.0 mm Ø

6 mm



up to 25 mm

Blades

Art.-No. 526013 1006

**T15/T42/T52 - 0.6 | 6.0 mm**  
radius milling tool (conical)

**T15** PMMA  
WAX  
Zr

**T42** SINT  
**T52** COMP

0.6 mm Ø 6 mm

up to 25 mm

Blades

Art.-No. 526019 0606

**T16 - 1.5 | 6.0 mm**  
radius milling tool long (l = 15 mm)

**T16** PMMA  
WAX  
PEEK

1.5 mm Ø 6 mm

up to 25 mm

Blades

Art.-No. 526019 1506

**T17 - 1.5 | 6.0 mm**  
shaft milling tool (l = 15 mm)

**T17** PMMA  
WAX  
Zr

1.5 mm Ø 6 mm

up to 25 mm

Blades

Art.-No. 526001 1506

**T18 - 0.5 | 6.0 mm**  
radius milling tool (l = 4 mm)

**T18** UNIVERSAL\*

0.5 mm Ø 6 mm

up to 15 mm

Blades

Art.-No. 526026 0506

**T19 - 0.5 | 6.0 mm**  
shaft milling tool (l = 4 mm)

**T19** UNIVERSAL\*

0.5 mm Ø 6 mm

up to 15 mm

Blades

Art.-No. 526001 0506

**T20 - 0.6 | 6.0 mm**  
radius milling tool (conical)

**T20** Ti  
CoCr

0.6 mm Ø 6 mm

up to 15 mm

Blades

Art.-No. 526003 0606

**T21 - 2.5 | 6.0 mm**  
radius grinding tool (diamond)

**T21** glass ceramics

2.5 mm Ø 6 mm

Art.-No. 526005 2506

**T22 - 1.0 | 6.0 mm**  
radius grinding tool (diamond)

**T22** glass ceramics

1.0 mm Ø 6 mm

Art.-No. 526005 1006

**T23 - 0.6 | 6.0 mm**  
radius grinding tool (conical, diamond)

**T23** glass ceramics

0.6 mm Ø 6 mm

Art.-No. 526005 0606

**T24 - 1.5 | 6.0 mm**  
radius grinding tool (diamond)

**T24** glass ceramics

1.5 mm Ø 6 mm

Art.-No. 526005 1506

**T30 - 4.0 | 6.0 mm**  
shaft milling tool long (l = 32 mm, single blade, slide coated)

**T30** PMMA  
WAX  
PEEK

4.0 mm Ø 6 mm

up to 30 mm

Blade

Art.-No. 526012 4006

**T32 - 0.6 | 6.0 mm**  
radius milling tool long (l = 12 mm)

**T32** PMMA  
WAX  
Zr

0.6 mm Ø 6 mm

up to 25 mm

Blades

Art.-No. 526012 0606

**T33/ T43/ T53 - 0.3 | 6.0 mm**  
radius milling tool (conical)

**T33** PMMA  
WAX  
Zr

**T43** SINT  
**T53** COMP

0.3 mm Ø 6 mm

up to 25 mm

Blades

Art.-No. 526019 0306

**T34 - 3.0 | 6.0 mm**  
radius milling tool long (l = 27 mm)

**T34** PMMA  
WAX

3.0 mm Ø 6 mm

up to 30 mm

Blades

Art.-No. 526012 3006

**T35 - 2.0 | 6.0 mm**  
radius milling tool long (l = 20 mm)

**T35** PMMA  
WAX

2.0 mm Ø 6 mm

up to 30 mm

Blades

Art.-No. 526012 2006

**T36 - 4.0 | 6.0 mm**  
radius milling tool long (l = 31 mm)

**T36** PMMA  
WAX

4.0 mm Ø 6 mm

up to 30 mm

Blades

Art.-No. 530019 4006

**T98 - 2.5 | 6.0 mm**  
shaft milling tool (l = 20 mm, three blades)

**T98** CALIBR.

2.5 mm Ø 6 mm

Blades

Art.-No. 526024 2506

## Long-Tools

Application range: Blanks > 15mm

**T26 - 3.0 | 6.0 mm**  
radius milling tool long (l = 20 mm)

**T26** Ti  
CoCr

3.0 mm Ø 6 mm

16 - 20 mm

Blades

Art.-No. 526030 3006

**T27 - 2.0 | 6.0 mm**  
radius milling tool long (l = 16 mm)

**T27** Ti  
CoCr

2.0 mm Ø 6 mm

16 - 20 mm

Blades

Art.-No. 526030 2006

**T28 - 1.5 | 6.0 mm**  
radius milling tool long (l = 15 mm)

**T28** Ti  
CoCr

1.5 mm Ø 6 mm

16 - 20 mm

Blades

Art.-No. 526030 1506

**T29 - 1.0 | 6.0 mm**  
radius milling tool long (l = 11 mm)

**T29** Ti  
CoCr

1.0 mm Ø 6 mm

16 - 20 mm

Blades

Art.-No. 526030 1006

**T37 - 1.5 | 6.0 mm**  
torus milling tool (r = 0.08 mm, l = 20 mm)

**T37** PMMA  
WAX  
Zr

1.5 mm Ø 6 mm

up to 20 mm

Blades

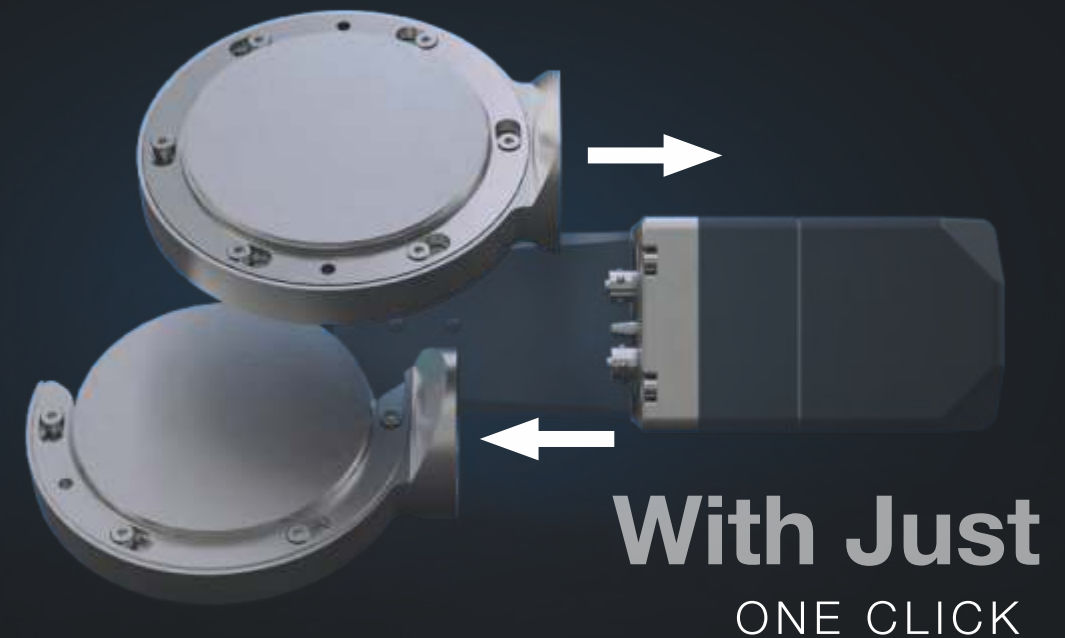
Art.-No. 530035 1506

## Roughing Tool

## Calibration Tool

FINE SURFACE QUALITY  
**and High Precision**

## Zero Point Clamping System\*



### Blank / Adapter Change without Losing Position

For a faster blank holder change with just one click, we offer an **optional extension** for the CORITEC 250i **PRO**: the Zero Point Clamping System module. This extension enables a more efficient and faster blank/adapter change, which significantly optimizes the work flow, especially when working with many different materials.

- ✓ Ability to integrate multiple adapters
- ✓ Full flexibility in processing options

\* Optional

# Materials by pritidenta®

## priti® multidisc (Zirconium Dioxide)

High-end zirconia for the highest mechanical and esthetic demands. Indications up to 16-unit bridges, only with High Translucent max. 3-unit bridges.

- ✓ Wide range of shades and heights available
- ✓ Available in 10, 12, 15, 18, 20 and 25 mm

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

## CORiTEC splint comfort polymers

Extremely comfortable and biocompatible material for fabricating therapeutic splints such as occlusal or stabilizing splints. Becomes more flexible at oral temperature for maximum comfort.

- ✓ Available in 16 mm and 20 mm

## CORiTEC splint basic polymers

Crystal clear material for making therapeutic splints and drill guides.

- ✓ Available in 16 mm and 20 mm



## CORiTEC temp PMMA disc

An excellent workable material that is suitable for long-term temporary restorations with a wear time of up to three years and that contains an intrinsic shade gradient.

- ✓ Available in 8 Vita colors in 16 mm and 20 mm

## CORiTEC gum PMMA disc

For gingiva replacement.

- ✓ Available in 25 mm

## CORiTEC Titan Grade 5 disc

CORiTEC Titan Grade 5 milling blanks in titanium alloys are particularly suitable for the manufacture of dental implants, bar work and combination work. This material is characterized by good millability and very good biocompatibility.

- ✓ Available in 10, 12, 15, 18, 20 and 25 mm

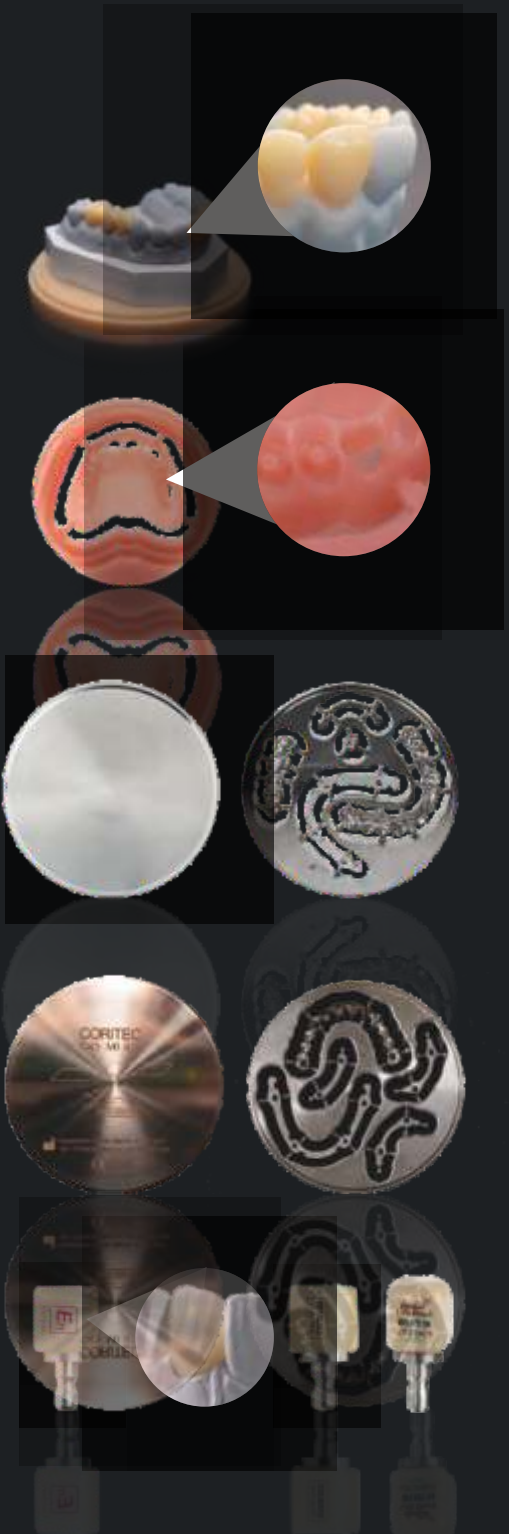
## CORiTEC CoCr M6 & W8 disc

The cobalt-based non-precious dental alloy is free of nickel, cadmium, beryllium and lead. The restorations can be veneered with commercially available, normal-fusing firing ceramics with an appropriate coefficient of thermal expansion (CTE).

- ✓ Available in 10, 12, 13.5, 15, 16 and 18 mm

## Glass ceramics

- ✓ VITA ENAMIC® multiColor
- ✓ VITA ENAMIC® ST
- ✓ VITABLOCS® TriLuxe forte
- ✓ GC® Initial LiSi Block
- ✓ GC® cerasmart270



# CORiTEC® SmartControl

## One Touch Ahead!

The SmartControl software enables intuitive operation of our milling machines — from selecting jobs to milling or querying the machine status. The self-explanatory handling makes it easy to begin and starting the milling process requires just two clicks. Benefit from the smart time saving for your workflow!

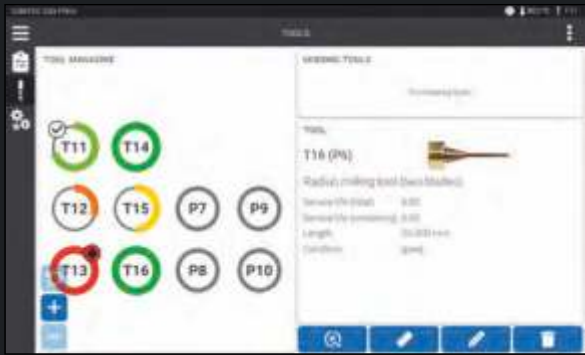
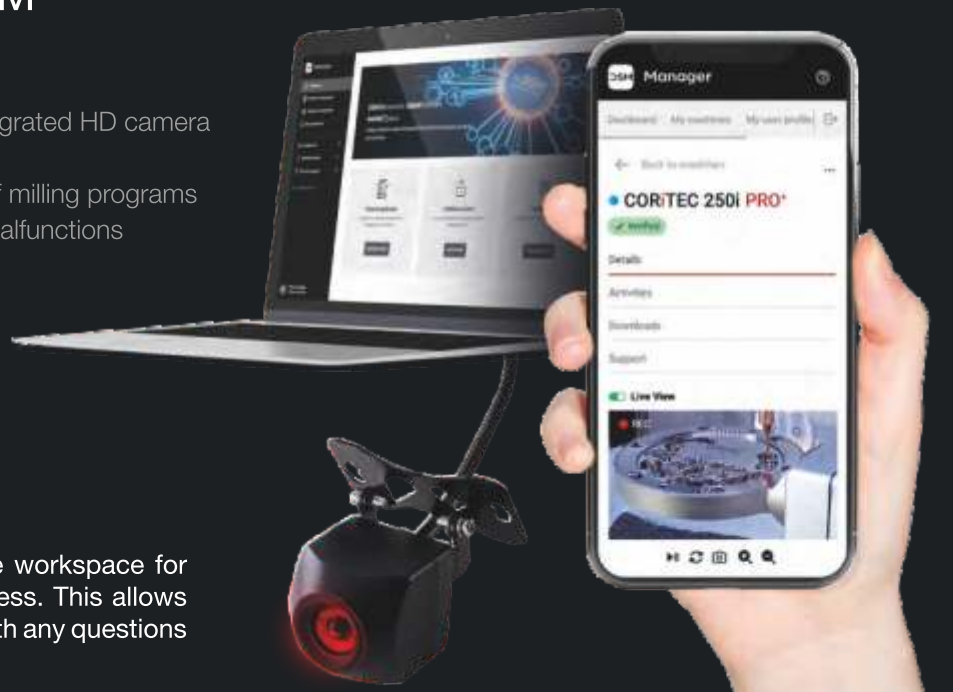
- ✓ Modern design and easy touch operation
- ✓ Intelligent job selection
- ✓ Easy tool and material loading
- ✓ Automatic machine calibration
- ✓ Wizard-driven cleaning and maintenance
- ✓ Multilingual user interface: English, German, Chinese, Spanish, French, Portuguese, Japanese, Arabic
- ✓ Automatic update function

## Connection to the DSM (DentalSmartMarket)

- ✓ Online machine monitoring with integrated HD camera
- ✓ Simple and straightforward
- ✓ Active notification, e.g. at the end of milling programs or machine programs or machine malfunctions
- ✓ Display of processing status
- ✓ Displays maintenance intervals and much more...

## Online Monitoring of the Milling Process

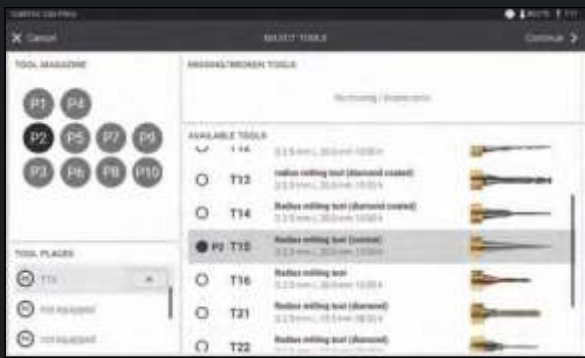
An HD camera is integrated into the workspace for online monitoring of the milling process. This allows the support team to assist the user with any questions or challenges as quickly as possible.



Optimized for touch screen operation



Automatic transfer of information from CAM software



Optimal tool management

## Easy-to-Use SOFTWARE



Integrated HD camera

# Scanner

## CORiTEC i3Dscan color

- ✓ Automatic object guidance into the field of view
- ✓ Modern touch control design
- ✓ Easy operation with 180° opening

## CORiTEC i3Dscan color HR

- ✓ Enormously high scanning efficiency and accuracy
- ✓ Color texture scan
- ✓ Blue light LED & high resolution camera (2.8 MP)
- ✓ All modules included in the scope of delivery



# Suction Systems

The iVAC eco+ is the universal solution for all tabletop machines from imes-icore.

The iVAC silent PRO impresses with its compact design and high quality technology at an affordable price.

	iVAC silent PRO	iVAC eco+
Airflow	240 m³/hr	260 m³/hr
Power	1610 W	1200 W
Filter system	Teflon filter cartridge, automatic cleaning feature	Dust drawer, HEPA filter
Filter volume	8 l / 30.28 gpm	25 l / XX gpm
W x D x H	270 x 540 x 535 mm 10.6 x 21.2 x 21.1 inch	440 x 460 x 750 mm 7.3 x 18.1 x 29.5 inch
Supply voltage	115 - 230 V, 50/60 Hz	100-240 V, 50/60 Hz



# CAM Software

## CORiTEC iCAMHD

The software offers a high degree of automation and efficient order management. An intuitive workflow enables quick training. Users can manage processing options individually. Automatic worldwide updates keep the software up to date at all times. User-defined quality standards and toolpath generation strategies ensure surface quality and precision. Comprehensive collision monitoring ensures safety.

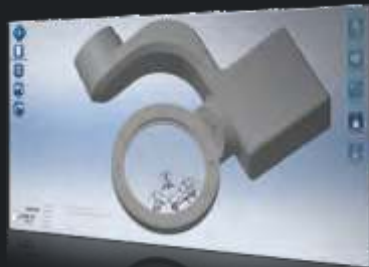
- ✓ hyperDENT based CAM software
- ✓ Built-in CAM templates for fast, accurate milling results
- ✓ No additional entry costs
- ✓ Free iCAM HD software for 1 year
- ✓ Annual renewal available for a small fee



## CORiTEC iCAM V5 smart\*

iCAM V5 software provides precise 5-axis milling data for the best surface quality and fit accuracy, especially in hard materials such as glass-ceramics, cobalt-chrome and titanium.

- ✓ All strategies optimized for 5-axis simultaneous machining
- ✓ Automatic exchange of implant connections (ReFit option)
- ✓ Fully automatic and easy operation with “Wizard Workflow“



# Auto-Calibration

Auto-calibration allows a quick and easy operation to ensure lasting accuracy without compromise.



# Machine Table



Machine Table T250

790 x 900 x 580 mm  
31,1 x 35,4 x 22,8 inch  
B x H x T

Specifically designed to meet the needs of different machine types, the base tables feature both sturdy construction and attractive appearance.

The machine tables have sufficient floor space. Sturdy castors ensure optimum stability and easy movement of the machines. Drawers, cable ducts and a cabinet for the integration of appropriate extraction systems are included.



# In Numbers

## CORiTEC 250i 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 / 1.0 kW
Maximum spindle speed	60.000 rpm
Tools	Milling and grinding tools with 6 mm shaft diameter
Tool changer integrated	10-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	95 kg / 209.4 lbs
Width x depth x height	23.3 x 24.1 x 28.5 inch / 591 x 613 x 724 mm
Line voltage / frequency	100 V - 240 V / 50/60 Hz

# Sales and Support Partners

## WORLDWIDE



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