CORiTEC® 350i PRO Series

The Real Business Class

Professional, Automated All-In-One Solutions

imes-icore®
Dental & Medical Solutions

5 AX
5-axis Machining

Zero Point Clamping System

Temperature Compensation

Automated Cleaning

ION
Ionizer (Optional)

Variety of Holder Systems

Reliable Performance

LONG-TERM STABILITY

For dental technicians who value precision and flexibility: The CORiTEC 350i PRO Series was developed to simplify your daily work and deliver perfect results. With the CORiTEC 350i PRO Series, you are not just investing in a machine, but in the future of your laboratory. Stay competitive and impress your customers with convincing quality.

CORiTEC 350i PRO

CORiTEC 350i Loader PRO

CORiTEC 350i PRO+

CORiTEC 350i Loader PRO+

Technical data				
Fully automatic workpiece changer	Manual	12-fold	Manual	12-fold
Blank holder	1	4	1	4
Spindle power	1.0 kW		2.6 kW	
Spindle bearing	2 Hybrid bearing		3 Hybrid bearing	
Collet	6 mm		6 mm (self cleaning)	
Spindle cooling	Air cooled		Water cooled	
Materials				
Ceramics / hybrid materials	✓	✓	✓	✓
Metals / Alloys	✓	✓	✓	✓
Polymers / Plastics	✓	✓	✓	✓
Indications				
All common indications	◉◉◉	◉◉◉	◉◉◉	◉◉◉

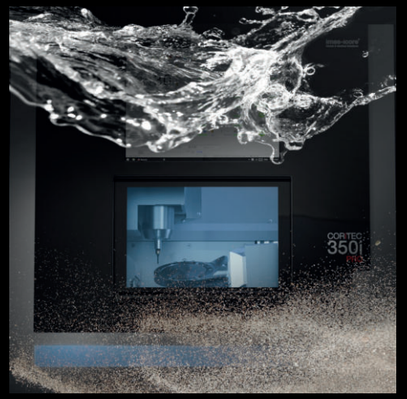
Top-Features

ALL ADVANTAGES AT A GLANCE

MILLING TIMES UP TO 20 % SHORTER

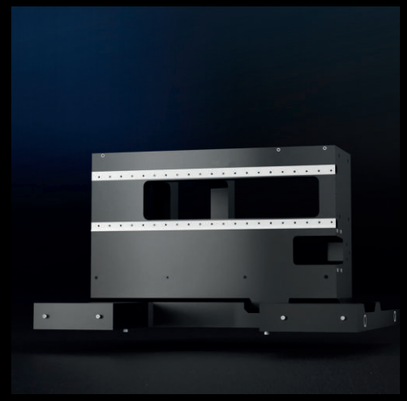
More efficient processes for less stress in everyday laboratory work: With the CORiTEC 350i PRO Series, you can reduce processing times while lowering material consumption and post-processing costs. Up to 20 % faster processing with maximum precision – made possible by highly dynamic servo drives with a motor resolution of 0.15 µm.

- ✓ Very good surface quality
- ✓ Longer tool life for greater efficiency
- ✓ Optimized running smoothness for precise work



PROCESSING IN WET AND DRY PROCESSES

- ✓ Wet processing with an integrated filter/cooling lubrication system ensures precise results with outstanding surface quality – ideal for glass ceramics, composites and especially titanium, for example.
- ✓ With dry processing, you can achieve fast and precise results, e.g. with zirconium, PMMA and especially with CoCr indications, where these systems show their full strengths – with very good surfaces and greater accuracy.



PERFECT STABILITY FOR SEAMLESS PRODUCTION

Your work deserves a stable base: the polymer concrete block guarantees precise results and a longer service life for your tools – even with intensive use.

- ✓ Maximum stability
- ✓ Effective vibration damping
- ✓ Increased precision
- ✓ Longer tool life

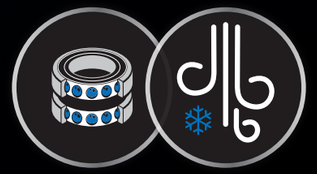
BLANK / ADAPTER CHANGE WITHOUT LOSS OF POSITION

The powerful industrial zero point clamping system enables a quick and precise change of blank and adapter with just one click. This system significantly increases efficiency and precision while optimizing work processes – especially when processing a wide range of materials.

- ✓ Precise changeover without loss of position
- ✓ Compatible with a wide range of adapters
- ✓ Maximum flexibility for different applications

CORiTEC® 350i PRO Series: PRO vs PRO+

DIFFERENCES IN DETAIL



1.0 kW High frequency spindle

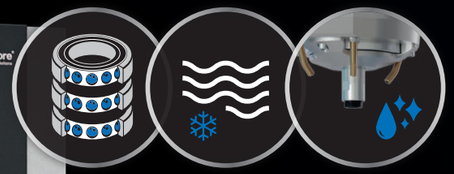
- ✓ Up to 60.000 rpm for milling and and grinding operations
- ✓ Tools with 6 mm shaft diameter
- ✓ 2 hybrid ball bearings for increased precision and smoother running
- ✓ Air cooled spindle

Aluminum holder systems

- ✓ Lightweight, corrosion-resistant and cost-effective
- ✓ Good for applications where weight saving is important

Discover our cost-efficient solution for precise and reliable processing – ideal for all everyday laboratory requirements. Save costs without compromising on quality!

Invest wisely - high performance pays off! Benefit from a longer service life, lower maintenance costs and excellent precision, especially for complex applications.



2.6 kW High frequency spindle

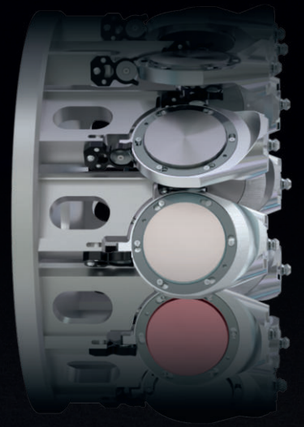
- ✓ Up to 60.000 rpm for milling and grinding operations
- ✓ Tools with 6 mm shaft diameter
- ✓ 3 hybrid ball bearings for maximum precision and stability
- ✓ Water cooled spindle for improved service life and precision
- ✓ Self cleaning collet chuck for constant precision and minimal maintenance

Stainless steel holder

- ✓ Stable and durable
- ✓ Excellent corrosion resistance
- ✓ Ideal for demanding applications
- ✓ Reduces vibrations when milling metal blanks

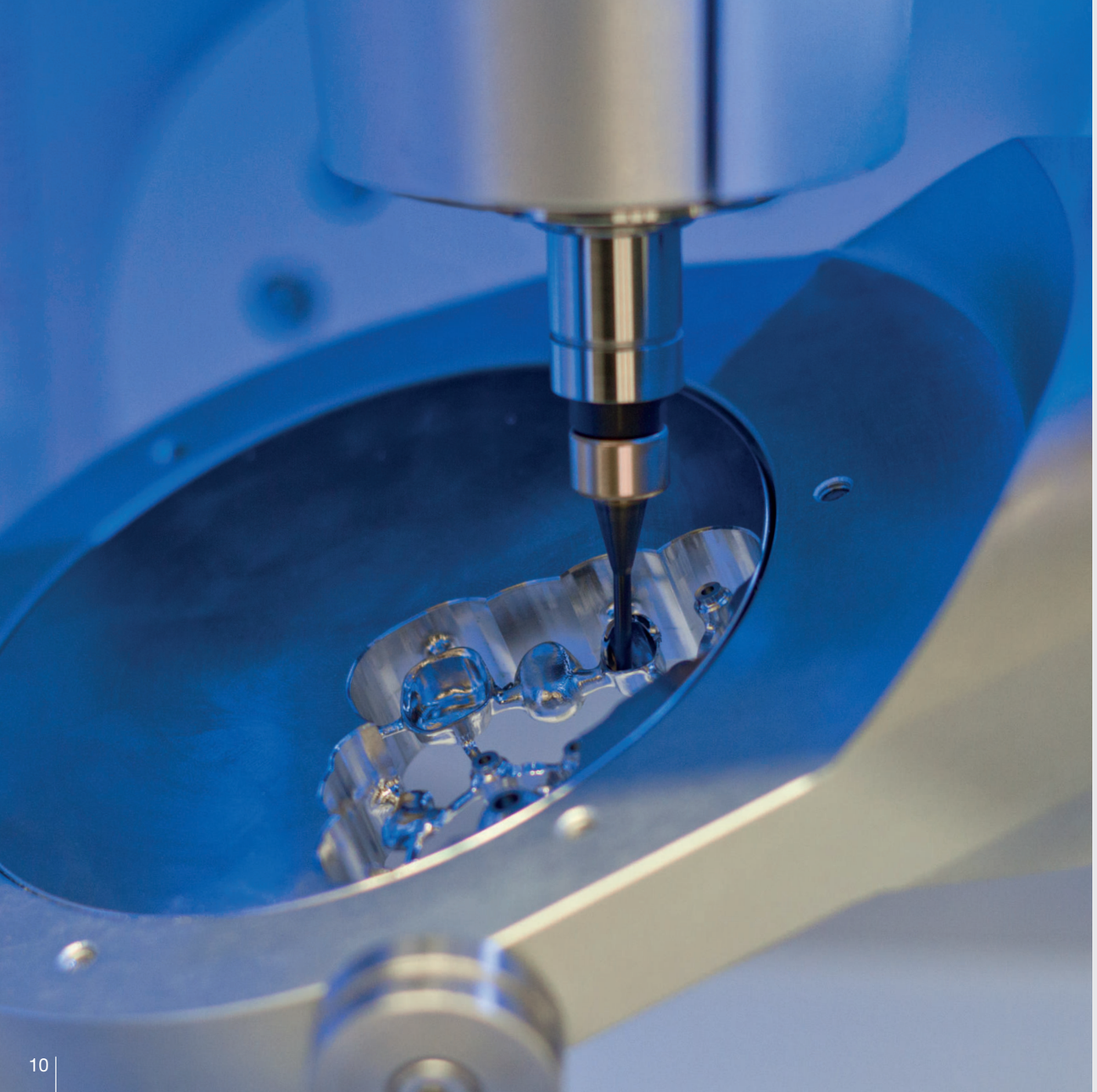
24/7 Automation for Your Laboratory

CORiTEC® 350i PRO SERIES LOADER VARIANTS WITH 12-FOLD BLANK CHANGER



The CORiTEC 350i PRO and 350i PRO+ models are also available as loader versions and enable maximum efficiency thanks to automated blank changing.

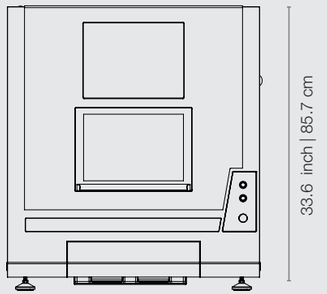
Let the machine work for you around the clock: The loader variants take care of the blank changes and ensure efficiency and cost savings. This increases productivity, reduces costs and optimizes your work processes – the ideal solution for dental laboratories that want to combine efficiency and cost-effectiveness.

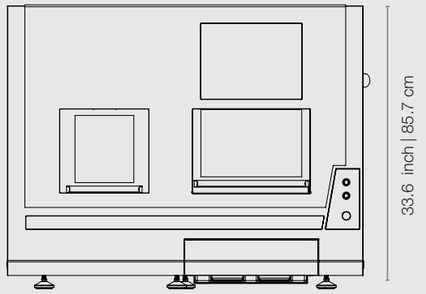


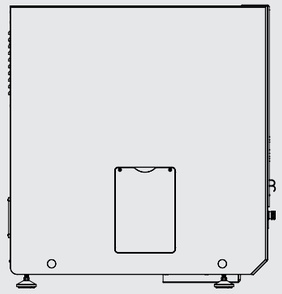
Perfect Dimensions

WELL THOUGHT-OUT, IDEALIZED CONSTRUCTION FOR MAXIMUM STABILITY

The CORiTEC 350i PRO Series combines compact design with advanced technology. Its robust construction and advanced technology enable fast and precise results even for complex applications. Ideal for laboratories that require both stability and reliability in their processes. Enjoy optimal performance and perfect results in a space saving design.







Freedom in Materials & Applications

FROM CERAMICS TO METALS –
PRECISE SOLUTIONS FOR EVERY APPLICATION

PMMA	WAX
Zr	COMPOSITE
PEEK	SINT
Glass ceramics	PreMilled Abutments
CoCr	Ti

Standard	PreMilled Abutment	Full Dentures
C-Clamp	Block	Zero Point Clamping System

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

Maximum Flexibility

HOLDER AND ADAPTER

Are you looking for a solution for your most demanding dental applications? The CORiTEC 350i PRO Series has been specially developed for this purpose and offers you all options in one system.

The zero point clamping system ensures exact positioning of holders and adapters and guarantees a stable connection. Virtually vibration free milling achieves high machining accuracy and first class surface quality at the same time.

1 BLANK HOLDER

The closed blank holder offers high stability and is ideal for the precise processing of all common materials in blank form.

2 6-FOLD ADAPTER

With the 6-fold adapter, up to six blocks or abutments can be processed simultaneously. Flexible, interchangeable strips facilitate adaptation to different adapter systems and enable a quick material change for maximum efficiency.

3 C-CLAMP HOLDER

The half-open blank holder enables 5-axis machining with an axis angle of up to 90° and expands the technical possibilities of your milling machine. This flexibility is particularly suitable for complex geometries and precise reworking. Its design guarantees exact positioning for the best results.

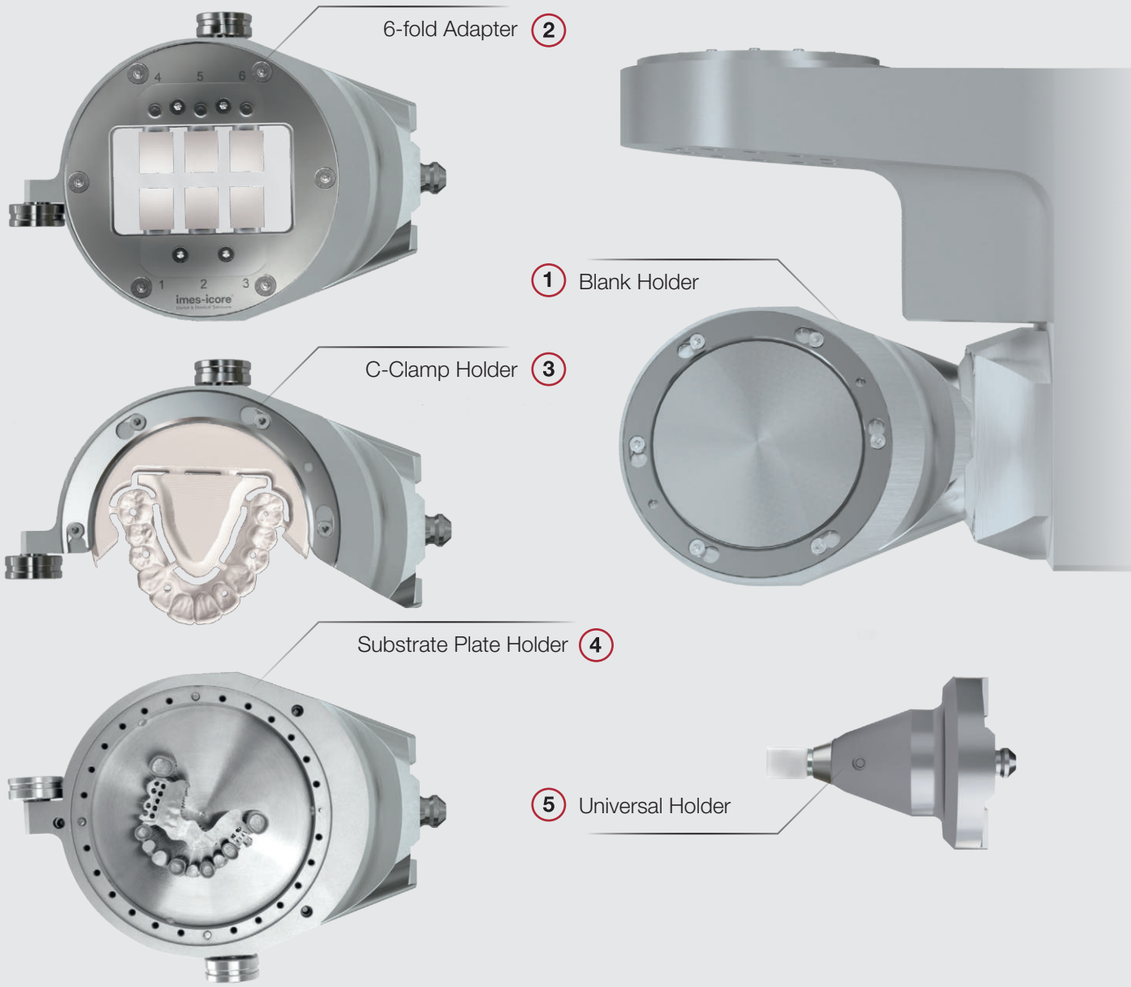
4 SUBSTRATE PLATE HOLDER

The substrate plate holder enables hybrid processing by clamping printed parts stably and accurately in position and re-milling them precisely. It ensures reliable fixing and maximum accuracy when post-processing complex geometries.

5 UNIVERSAL HOLDER

The universal adapter is a versatile single holder for drilling, milling and grinding. It offers high fitting accuracy and enables tool-friendly machining.

With a wide selection of adapters, it is ideal for glass ceramic blocks and various abutment systems.



Versatile Possibilities

INDICATIONS AND APPLICATIONS

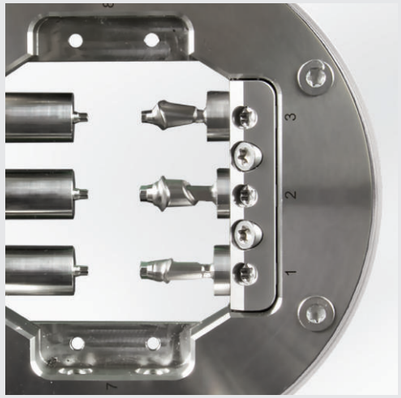
METAL PROCESSING

The machine guarantees high stability and therefore excellent surface quality when processing bars and bridges made of CoCr and titanium. Its precise processing ensures a perfect fit and long-lasting dentures – ideal for demanding dental applications.

- ✓ High strength and stability
- ✓ Precision and durability with CoCr and titanium processing
- ✓ Outstanding surface quality and precision

MILLING OF FULL DENTURES

The milling process for full dentures combines time and cost efficiency with maximum precision. It guarantees exact results thanks to perfect accuracy of fit and offers flexible design options for base and occlusal surfaces – ideal for individual and highly esthetic dentures.



CORiTEC® preMill ABUTMENTS

The CORiTEC preMills are supplied with abutment screw and compatible libraries, modules and holders. They enable dental technicians and dentists to produce validated and efficient customized one-piece titanium abutments – with full control over quality and time, in compliance with FDA requirements.

- ✓ Short production times
- ✓ Validated overall system
- ✓ High accuracy of fit thanks to prefabricated implant interface

GRINDING OF CAD/CAM BLOCKS

The 6-fold and 3-fold adapter ensures the precise fabrication of various tooth restoration solutions. The flexibility of the various adapters enables efficient processing.

- ✓ Crowns and bridge frameworks
- ✓ Onlays, inlays and veneers

THERAPEUTIC SPLINTS

CORiTEC machines enable the precise manufacture of therapeutic splints. They guarantee a precise fit and comfort thanks to flexible production options and meet the highest demands in laboratories and practices.

- ✓ Bite splints, bleaching splints
- ✓ Mandibular advancement splints and aligners

HYBRID MACHINING – SINTERING AND RE-MILLING

The post-processing of printed restorations combines precise milling with cost efficient production. It is compatible with a wide range of LPBF systems and can be seamlessly integrated into existing processes.

- ✓ High precision
- ✓ Cost-efficient production
- ✓ Compatible with CORiTEC AM100

MILLED IMPLANT MODELS

Our CORiTEC machines are used to manufacture implant models precisely and efficiently. The two-part implant analog system simplifies precise repositioning for exact implant restoration to meet the highest requirements.

- ✓ Precise and realistic replication of implants
- ✓ Highest precision

CROWNS, BRIDGES AND MORE

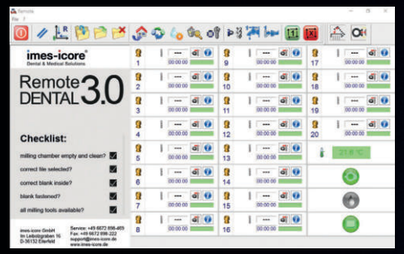
From single crowns and bridges to implant work: With a wide range of materials, we guarantee the highest quality with short production times.

- ✓ Ceramics and hybrid materials
- ✓ Metals and alloys
- ✓ Polymers and plastics

Maximum Overview

PRECISE CONTROL AND MONITORING IN REAL TIME

The large touch display of the CORiTEC 350i PRO Series ensures simple and clear operation that optimizes the entire work process. It enables quick navigation through all functions and offers a user-friendly interface for efficient control.



Monitoring in real time

CORiTEC® RemoteDental 3.0

- ✓ Clear overview of all functions
- ✓ Simple management of tools and their running times
- ✓ Sister tool function for uninterrupted operation
- ✓ No license fees
- ✓ Remote control support

DSM CONNECTION

Your digital assistant: The DSM platform offers you 24/7 access to all important data and helps to make your work-flow even more efficient.

- ✓ Automatic updates and 24/7 access
- ✓ View machine status
- ✓ Maintenance reminder
- ✓ Warranty protection
- ✓ Machine park overview

Smart High-End Solution

PERFECTLY INTEGRATED CAM SOFTWARE FOR ALL CORiTEC MACHINES, MATERIALS AND INDICATIONS

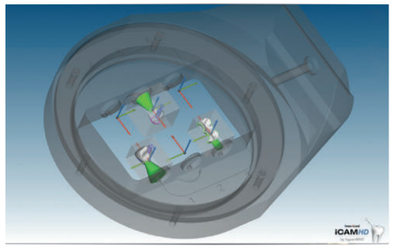
CORiTEC® iCAMHD

The CORiTEC iCAMHD software combines a high level of automation with efficient order management. Thanks to the intuitive workflow, familiarization is quick and easy, while processing options can be managed individually. Automatic updates keep the software up to date at all times. Validated strategies ensure precise results and excellent surface quality, while integrated collision monitoring guarantees maximum safety in process control.

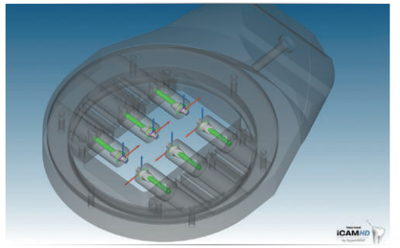
- ✓ hyperDENT based CAM software
- ✓ 3-month free test version and flexible payment model
- ✓ CAM templates for fast and precise results

iCAM HD advantages at a glance:

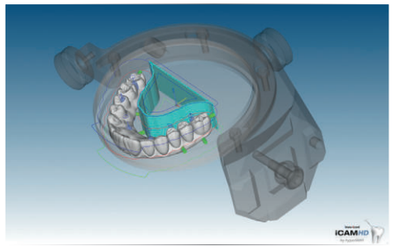
- ✓ High level of automation for efficient and precise production
- ✓ Intuitive workflow for quick and easy familiarization
- ✓ Automatic updates keep the software up to date at all times
- ✓ Perfect tool paths for the highest surface quality
- ✓ Collision monitoring ensures maximum safety and reliability



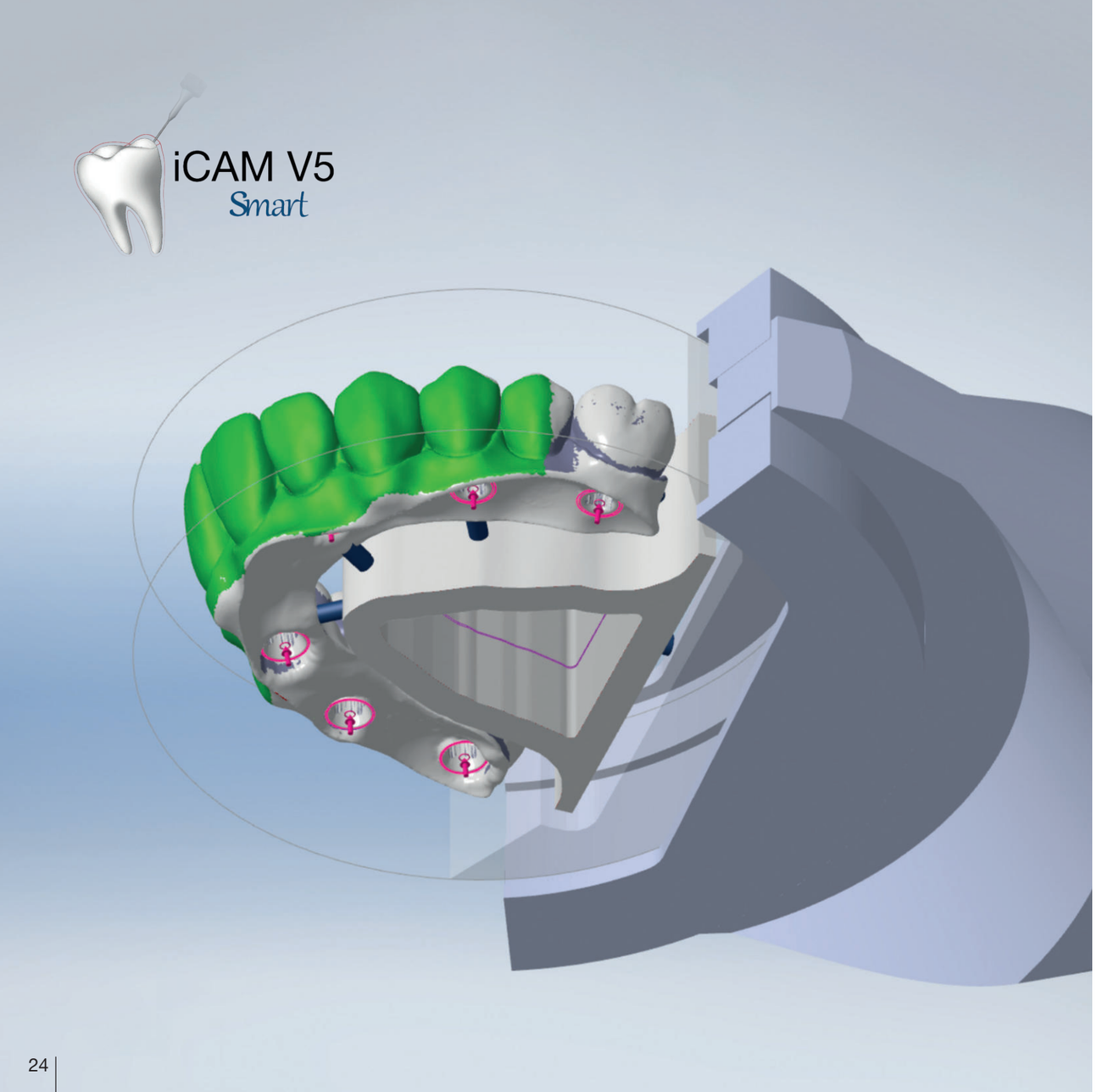
6-fold holder for ceramic blocks



6-fold CORiTEC preMill holder



Various applications in the C-Clamp holder



Flexible and Smart

PERFECTLY INTEGRATED CAM SOFTWARE FOR ALL CORiTEC MACHINES, MATERIALS AND INDICATIONS

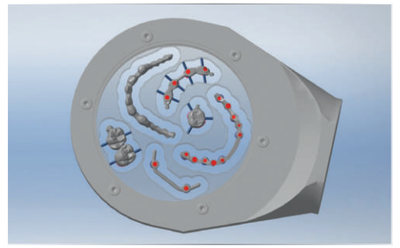
CORiTEC® iCAM V5 smart

The CORiTEC iCAM V5 stands for exceptional surface quality and maximum accuracy of fit – ideal for all common dental materials. Optimized tool strategies reduce machining time, extend tool life and ensure particularly smooth machine operation. This ensures precise results in 5-axis machining and maximum efficiency of your CAD/CAM system.

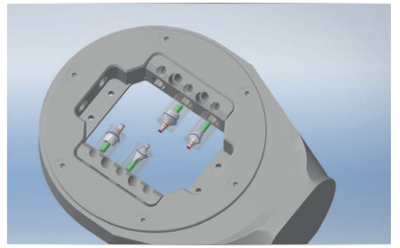
Your advantages at a glance:

- ✓ **5-axis simultaneous machining:** Precision even with undercuts
- ✓ **No enforced annual fees:** Maximum cost control
- ✓ **Wizard workflow:** Fully automatic, intuitive operation
- ✓ **ReFit function:** Flexible exchange of abutment geometries
- ✓ **Retaining bars:** Securely positioned for perfect results

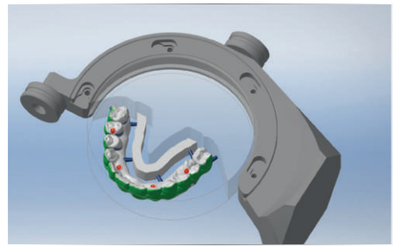
Experience CAM technology that revolutionizes your production!



Various applications in metal



6-fold CORiTEC preMill holder



Various applications in C-Clamp holder

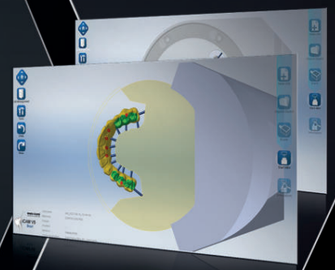
Coordinated, Validated Workflow of the Overall System

SEAMLESSLY INTERLOCKING PROCESSES

The combination of iCAM software, high-quality milling machines and specially developed CORiTEC tools provides you with a validated complete system with full service and support from a single source. imes-icore represents first-class production solutions that seamlessly combine software, precise milling and grinding tools and high-performance machine technology.

Digital Impression / CAD Data

CAM Processing



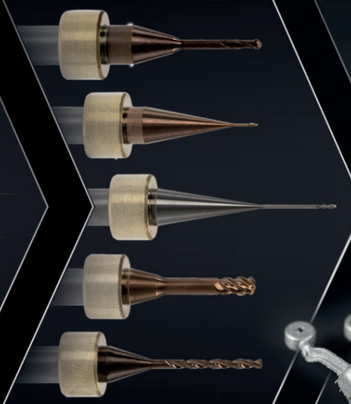
iCAM HD

iCAM V5 smart

Materials

- Titanium
- Cobalt-Chrome
- preMill Abutments
- Wax
- Zirconium
- Glass Ceramic
- Lithium Disilicate
- Lithium Silicate
- Hybrid Ceramic
- Composite
- PMMA / PEEK

Tools



6 mm Shaft

Milling Tools, Grinders etc.

Solutions

Perfect Synergy

Between Machine, Milling Tools, iCAM and Materials

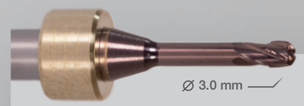
CORiTEC® CoCr M6 disc

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

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

IRONBITER

FOR VERY SHORT ROUGHING TIMES



T71

CoCr

T71 - 3.0 I 6.0 mm
Ironbiter, Milling Tool (l = 15 mm)
Art.-No. 530025 3006

✓ New ultra-smooth, high-temperature resistant TINox coating

Cutters and Grinders

CORiTEC® TOOLS

CORiTEC milling tools guarantee precision and efficiency. Perfectly matched to our machines, they offer maximum performance, durability and optimum results – combined with the right materials for your applications.

- ✓ High-speed milling tools
- ✓ Torus milling tools
- ✓ Shaft tools
- ✓ Drilling tools
- ✓ Thread milling tools
- ✓ Aligner milling tools
- ✓ T-milling tools
- ✓ Standard milling tools

ALL TOOLS AT A GLANCE

To the milling tool brochure

CAD/CAM Materials

CORiTEC® MATERIALS

Our specially developed materials are perfectly matched to CORiTEC machines and guarantee maximum precision and quality. Made in Germany and validated for a wide range of applications, they meet the highest standards for the best results.

- ✓ priti®multidisc
- ✓ CORiTEC® splint comfort Polymere
- ✓ CORiTEC® splint basic Polymere
- ✓ CORiTEC® temp PMMA disc
- ✓ CORiTEC® gum PMMA disc
- ✓ CORiTEC® Titan Grade 5 disc
- ✓ CORiTEC® CoCr M6 / W8 disc
- ✓ GC® Initial LiSi Block
- ✓ GC® cerasmart270
- ✓ VITA ENAMIC® multiColor
- ✓ VITA VIONIC® BASE DISC HI
- ✓ VITA CAD-Temp®
- ✓ VITA YZ HT / VITA YZ T
- ✓ VITA YZ ST / VITA YZ XT
- ✓ VITA BLOCS® Mark II
- ✓ VITA SUPRINTITY® PC
- ✓ VITA ST, TriLuxe forte
- ✓ VITA YZ MULTITRANSLUCENT

ALL MATERIALS AT A GLANCE

To CORiTEC® Materials
www.pritidenta.com

CORiTEC® Aligner
STARTERKIT

THE UPGRADE FOR YOUR EXISTING MACHINE!

Do you already have a CORiTEC 350i PRO or PRO+ milling system? Simply upgrade it with the CORiTEC Aligner Starterkit.

Thanks to its holder system with integrated zero point clamping system, you can start your aligner production in just a few simple steps.

- ✓ 1x tool case
- ✓ 1x holder set with integrated zero point clamping system
- ✓ 5x base plate for holding the blanks
- ✓ 5x special milling tool

CORiTEC® 350i PRO Series

+

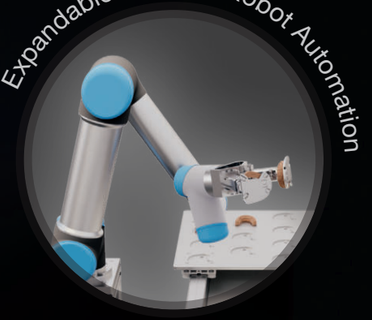
CORiTEC® Starterkit

=

Mixed operation of dental and aligner applications

Extend the Functionality of Your 350i PRO Machine...

...AND STAY FLEXIBLE!



Suction Systems

DUST PROTECTION AND AIR CLEANING

	iVAC eco+	iVAC PRO+
Technical data		
Volume flow	260 m³/h	280 m³/h
Power	1200 W	1200 W
Filter system	Filter bag, HEPA filter	Teflon filter cartridge, automatic cleaning
Filter flow	25 l/min / 6.6 gpm	18 l/min / 4.76 gpm
Compatibility		
CORiTEC 350i Series	◉◉◉	◉◉◉

Scanner

DIGITAL IMPRESSION

CORiTEC® i3Dscan color HR

- ✓ Enormously high scanning efficiency and precision
- ✓ Color texture scan
- ✓ Blue-light LED & high-resolution camera (3.2 MP)
- ✓ All modules included in the scope of delivery

CORiTEC® i3Dscan color

- ✓ Automatic object guidance into the measuring field
- ✓ Modern touch operation
- ✓ Easy to work with 180° opening

Sintering Furnaces

SINTERING PROCESS FOR ZIRCONIA

iSINT eco

The iSINT eco combines high-quality technology with a space-saving design and a fair price. With a sintering dish of Ø 100 mm, it offers capacity for up to 25 units. The door hinge can be flexibly mounted on the right or left – ideal for a versatile laboratory environment.

iSINT PRO

The iSINT PRO enables the sintering of up to 80 individual crowns. With four MoSi2 heating elements, it offers both long-term sintering and SPEED sintering at up to 120°C/minute. A 4-line LCD display simplifies program control. Additional functions such as timer and service programs as well as a pre-drying program make the iSINT PRO a flexible solution for modern laboratories.

	iSINT eco	iSINT PRO
Technical data		
Heating elements	4	4
Program memories	9	30
Combustion chamber capacity	1 x 100 (approx. 25 units)	2 x 120 (approx. 80 units)
Max. Heating rate	25 °C/min / 77 °F/min	120 °C/min / 248 °F/min
Power	1720 W	3200 W
Lift function	-	✓
Speedsintering	-	✓

Machine Tables

SOPHISTICATED FUNCTIONALITY

Our machine tables combine stability, functionality and sophisticated design – for convenient and efficient use. They offer storage space, stable castors, drawers and space for suction systems.

- ✓ Highest quality - Made in Germany
- ✓ Stability for dynamic processes
- ✓ High level of comfort and ergonomics

Everything at a Glance

CORiTEC® 350i PRO SERIES IN NUMBERS

	CORiTEC 350i PRO	CORiTEC 350i Loader PRO	CORiTEC 350i PRO+	CORiTEC 350i Loader PRO+
Mechanics / electronics				
Basic structure (exterior)	Polymer concrete			
Number of axes / operation type	5 axes, simultaneous processing			
Rotation angle	A-axis 360°, B-axis 115			
Spindle type	High frequency spindle			
Max. spindle speed / power	60.000 rpm, 1.0 kW		60.000 rpm, 2.6 kW	
Spindle cooling	Air cooled		Water cooled	
Zero point clamping system	✓			
Blank changer	Manual	Up to 12 blanks with *aluminum holder*	Manual	Up to 12 blanks with *stainless steel holder*
Tools	Milling and grinding tools with 6 mm shaft			
Tool changer	20-fold			
Tool length control	≤ 0.002 mm accuracy			
Software	RemoteDental 3.0, Windows based			
Control PC / Display	Integrated control PC / 15.6” full HD touchscreen			
Illumination	RGB LED illumination with status signaling			
Air pressure	6,0 – 9,0 bar / 87 – 130 psi @ 80 l/min / 21.14 gpm			
Coolant tank	4,8 l / 1.27 gal			
Connection requirements				
Weight	205 kg	250 kg	210 kg	255 kg
Width x depth x height	758 x 790 x 857 mm 29.8 × 31.1 × 33.7 inch	1058 x 790 x 857 mm 41.7 × 31.1 × 33.7 inch	758 x 790 x 857 mm 29.8 × 31.1 × 33.7 inch	1058 x 790 x 857 mm 41.7 × 31.1 × 33.7 inch
Line voltage / frequency	100 V – 240 V / 50/60 Hz		110 V – 240 V / 50/60 Hz	

Global Support

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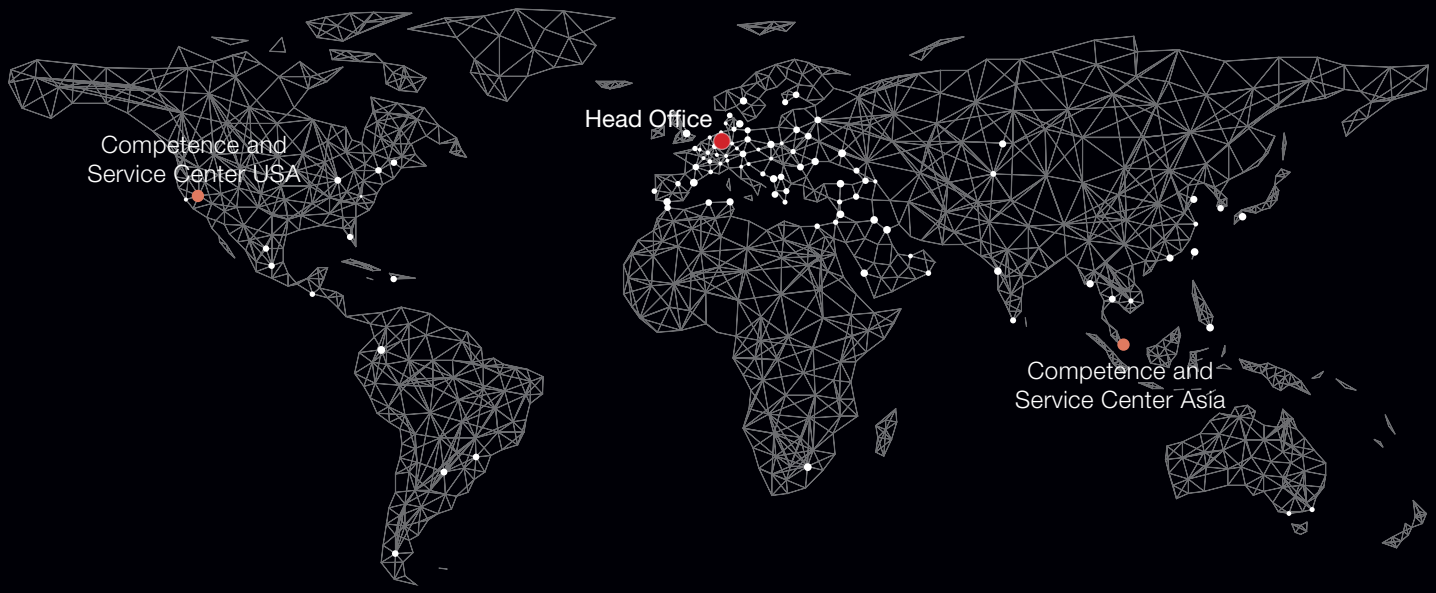

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