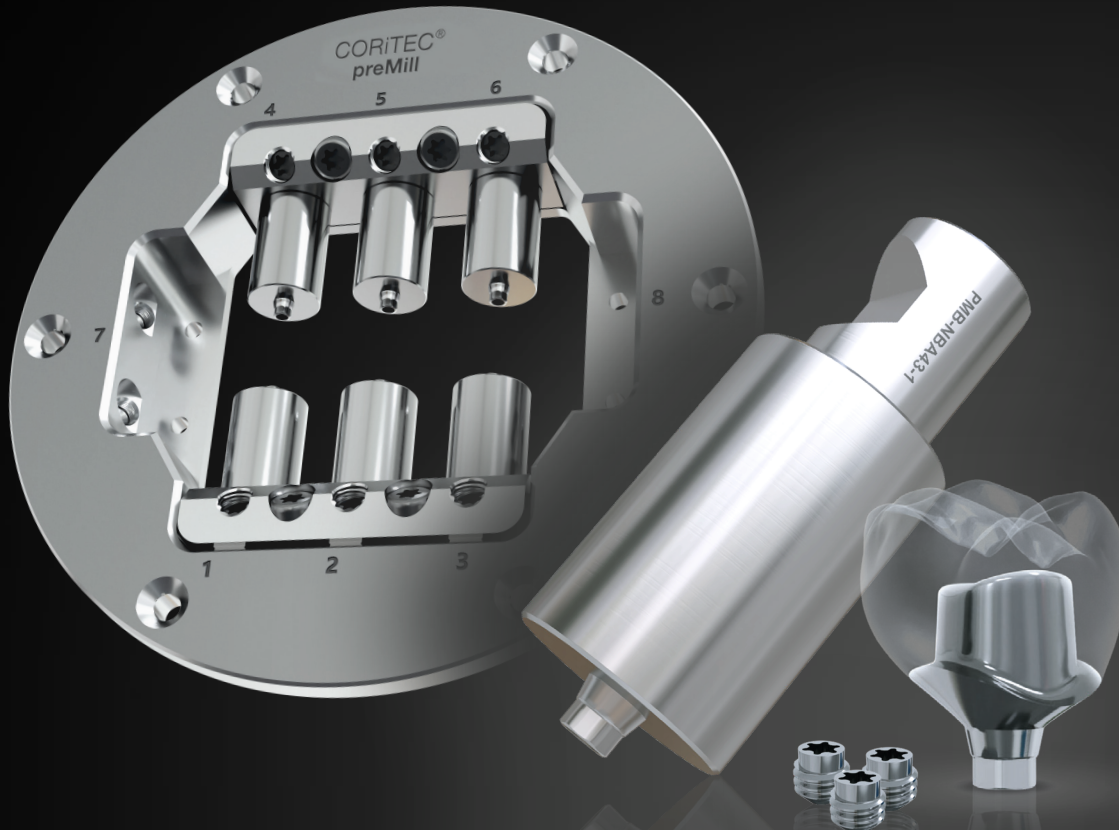




imes-core[®]
Dental & Medical Solutions



CORiTEC[®] preMill System

FOR CUSTOMIZED SOLUTION



The CORiTEC® preMill System

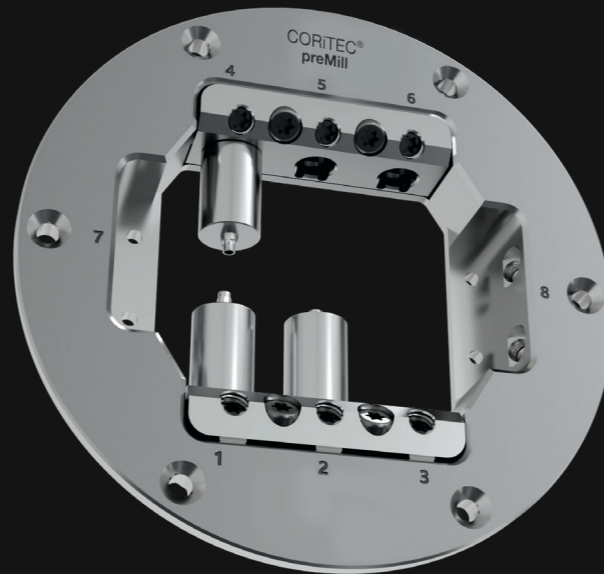


FOR ADDED VALUE AND GROWTH IN PRACTICES AND LABS

The CORiTEC® preMill System comes with compatible modules and holder that will allow dental technicians to produce truly customized one-piece titanium abutments in their practices and labs, with complete control of quality and timing. Compliant with FDA regulations.

ADVANTAGES

- Follows the natural morphology of the soft tissue
- Supports the gum and generates a root-shaped emergence profile
- Enables angulation to the orientation of the prosthetic crown
- Follows the anatomic shape of the crown giving perfect support and increasing bonding surface
- Allows a natural transition from implant to the prosthetic crown
- Adds value in the laboratory



FEATURES

Ø12 mm

PMB-NBA43-1

Biocompatible Titanium grade 5

More design freedom toward implant shoulder enables maximum flexibility

SELF-CENTERING
Stable attachment feature for securing the blank to the holder in the accurate position

LASER MARKING WITH LOT AND PART NUMBER
For easy identification before and after in-house milling process, and for regulatory traceability

FULL COMPATIBILITY
The screw's precision seation corresponds to the original connection

EMBEDDED SET SCREW
Prevent loosening of screws from module

MODULAR HOLDER CONSTRUCTION
Easy to assemble, easy to clean and easy to change

ONE-TOOL-CONCEPT
Simplifies assembly of the holder, the modules and the CORiTEC preMills by using the same driver interface (TORX 20)

EXTRAS

- HIGH DEGREE OF DESIGN FREEDOM**
Minimal gingival height and improved library geometry
- PERFECT IMPLANT EMERGENCE PROFILE**
No widening of the emergence profile needed above the implant diameter
- SMOOTH TRANSITION ZONE**
Significantly reduces manual reworking
- PERFECT INTERACTION WITH CAM**
Automatic nesting by metadata implementation



The Factsheets



The components of CORTEC preMill system from imes-icore includes patented designs for:

- Analog for printed models
- Scan bodies
- Hybrid bases (Ti bases)
- preMill abutment

All these products comply with FDA and MDR requirement. A truly open digital workflow allows users to make all the right decisions to get the job done in the best possible way. Most dental workflows lock the user into a closed system that only allows you to select from a specific group of compatible products. This makes the workflow complex, costly and at the same time restricts freedom of choice.

Openness and flexible solutions are better for business. Working with open, digital workflow products gives the freedom to work with other major dental implant systems as well.

Advantages of CORTEC® preMill System

- Complete and open for the major implant platforms
- Digital workflow solutions for all implant indications
- Made for in-house or outsourced production



The Components

Library



The Library is an open digital implant library that contains all relevant components and CAD/CAM components for 3shape and exocad software. It simplifies and optimizes the design of the dental implant solutions to be manufactured.

Scan Body



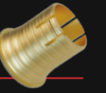
The Scan Body is the key to enter the digital workflow. It is a high-precision tool designed to be placed in the patient's mouth during intraoral scanning or on a plaster model at the laboratory. It features a titanium seating for exceptional accuracy and fit, and a PEEK top that allows for reliable direct scanning without the need for any spray coatings. The Scan Body is compatible with major implant systems, comes with a universal screwdriver, and is suitable for multi-use. In the digital workflow, the scan body together with the digital library plays the leading role in obtaining consistently quality.

Analog for Printed Models (PMA)



The Analog for Printed Models (PMA) are specifically designed for high accuracy in models made with 3D printers. With the model PMA, you can be assured that – due to the one-position feature – there is no risk of misplacement in the model. The construction can be torqued up to 40 Ncm on the model.

Hybrid Base (Ti-bases)



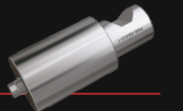
The FDA cleared Hybrid Base, was designed from scratch taking human biology and material characteristics into account. Rather than having sharp angles or compromising the thickness of the zirconia crown, the implant was carefully studied with regard to soft tissue management and a new anatomical design was developed. The Hybrid Base has been adapted as the authentic solution for some of the leading implant companies.

Prosthetic Screws



The Prosthetic Screws are manufactured from high-strength biocompatible titanium alloy and feature a precision seating that corresponds to the original implant connection interface. They are available for all major implant systems on the market and come in coated or uncoated versions, depending on the particular implant system. Special coatings offer outstanding mechanical properties combined with maximum biological safety and surface technologies that make them the optimal candidates for future, low-friction abutment screws.

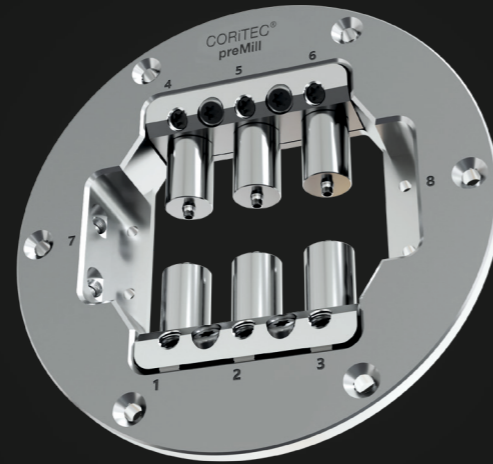
preMill Abutment



The FDA cleared preMill abutment, a workflow with CORTEC systems, enables dental labs and clinics to produce customized abutments in-house with greater consistency and ease, achieve faster turnaround times and increase revenue while meeting regulatory requirements.

The Factsheets

KEY FEATURES AND ADVANTAGES



The self-centering feature ensures maximum stability between the blank and the holder, resulting in smoother surfaces and fewer remakes.



The set-screw system improves efficiency and prevents screws from loosening during use, giving you a more reliable and consistent process.



The one-tool concept using the same driver interface simplifies the assembly workflow to save you valuable time in the dental lab and reduce the risk of errors.



Each blank is laser-marked with a LOT and PART number for easy identification and regulatory traceability.



The minimal gingiva height and improved library geometry offer a high degree of design freedom.



Overall, the CORITEC **preMill** System helps dental labs to produce high-quality customized titanium abutments with greater efficiency, reliability, and consistency. These benefits lead to predictable outcomes, improved customer satisfaction, reduced costs, and increased revenue for dental labs.

Regulations and Risk Minimizations through validation



In the US, the FDA classifies customer-specific milling as the manufacture of a Class II medical device. Labs milling custom implant abutments with CAD/CAM technology must either commission a validated milling center (VMS) with a listing of the facility and devices, and implement a Quality Management System or use products with a 510(k) pre-market clearance and registration with a validated digital workflow.

THE LIABILITY RISKS ARE GREAT AND CAN BE COSTLY IN THE EVENT OF NON-COMPLIANCE:

- Production stop of product lines for laboratories are possible
- Investments in subsequent equipment and approvals become a burden
- Profitability decreases



Your Solution

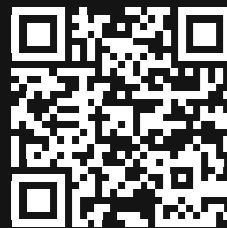
The use of the FDA-cleared CORITEC **preMill** abutments inside imes-icore validated workflow is essential for laboratories to produce custom abutments on-site. It ensures compliance with legal regulations, assists in creating restorations that meet the highest standards of safety and effectiveness, and reduces the risk of liability issues for the laboratory.








Compatible CORiTEC® preMill Platforms for Implant Systems

All CORiTEC blanks, which are available in all implant systems, are supplied without exception including the corresponding abutment screw. The range of ORTEC preMill blanks is continuously being expanded with compatible platforms for implant systems.

Please feel free to contact us if you need a different platform. Or take a look at the current status via the QR code.



Manufacturer	Implant Type
	Astra Tech EV Astra Tech TX XIVE
	Osstem ET
	Branemark System CC NobelActive Replace Tri-channel
	Bone Level Neodent Grand Morse Standard Tissue Level
	Certain Ex Hex Screw-vent (TSV)

... and more.

Compatibility

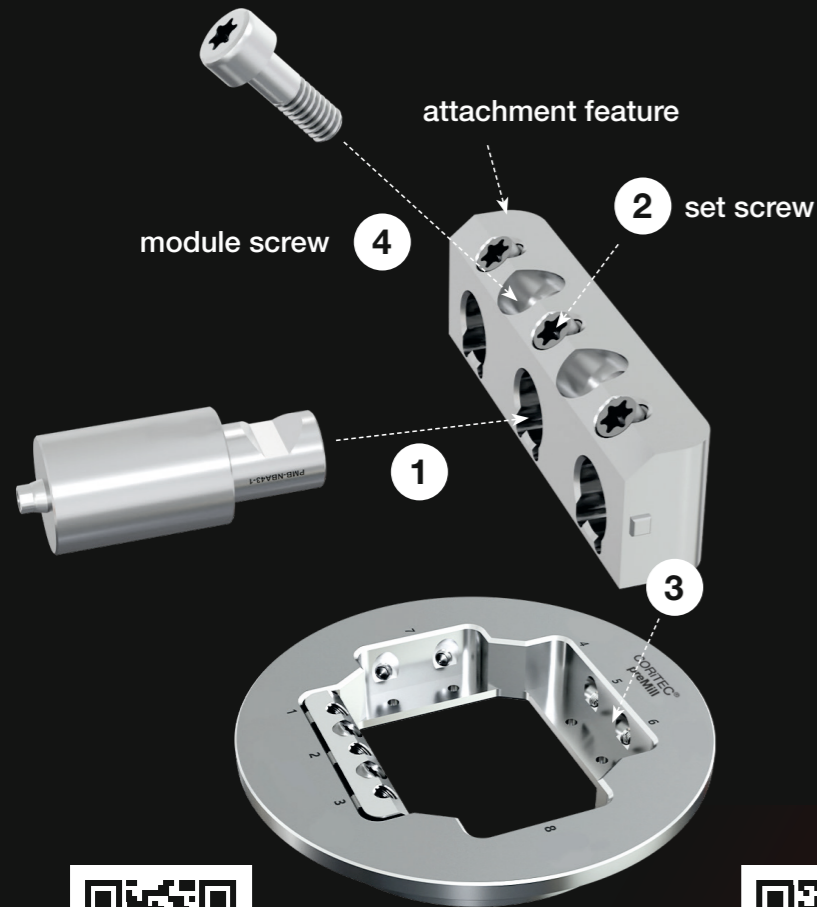
11 SYSTEMS | 31 PLATFORMS

AVAILABLE FOR MAJOR IMPLANT SYSTEMS

	Article number		Article number
AstraTech EV 3.6	CPMB-ATE36-1	Nobel CC 3.0	CPMB-NBA30-1
AstraTech EV 4.2	CPMB-ATE42-1	Nobel CC NP	CPMB-NBA35-1
AstraTech EV 4.8	CPMB-ATE48-1	Nobel CC RP	CPMB-NBA43-1
AstraTech EV 5.4	CPMB-ATE54-1	Nobel CC WP	CPMB-NBA60-1
AstraTech TX 3.5/4.0	CPMB-ATO35-1	NobelReplace NP	CPMB-NBR35-1
AstraTech TX 4.5/5.0	CPMB-ATO45-1	NobelReplace RP	CPMB-NBR43-1
Biomet 3i Certain 3.4	CPMB-BCE34-1	NobelReplace WP	CPMB-NBR50-1
Biomet 3i Certain 4.1	CPMB-BCE41-1	NobelReplace 6.0	CPMB-NBR60-1
Biomet 3i Certain 5.0	CPMB-BCE50-1	Straumann Bone Level NC	CPMB-SBO33-1
Biomet 3i Certain 6.0	CPMB-BCE60-1	Straumann Bone Level RC	CPMB-SBO41-1
Brånemark NP	CPMB-BRA41-1	Straumann Standard RN	CPMB-SSY48-1
Brånemark RP	CPMB-BRA35-1	Straumann Standard WN	CPMB-SSY65-1
Brånemark WP	CPMB-BRA51-1	Zimmer Screw-vent 3.5	CPMB-ZSV35-1
Hiossen ET Mini	CPMB-HET35-1	Zimmer Screw-vent 4.5	CPMB-ZSV45-1
Hiossen ET Regular	CPMB-HET45-1	Zimmer Screw-vent 5.7	CPMB-ZSV57-1
Neodent GM	CPMB-NGM45-1		

*Registered trademark //
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CORiTEC® preMill Assembly Guide



1. Put the blank into the module with the attachment feature facing up.
2. Tighten the screw. The set screw pulls the blank into the module securing its position.
3. Mount the module into the CORiTEC preMill holder.
4. Insert the module screw into the module and torque the screw until it clicks.



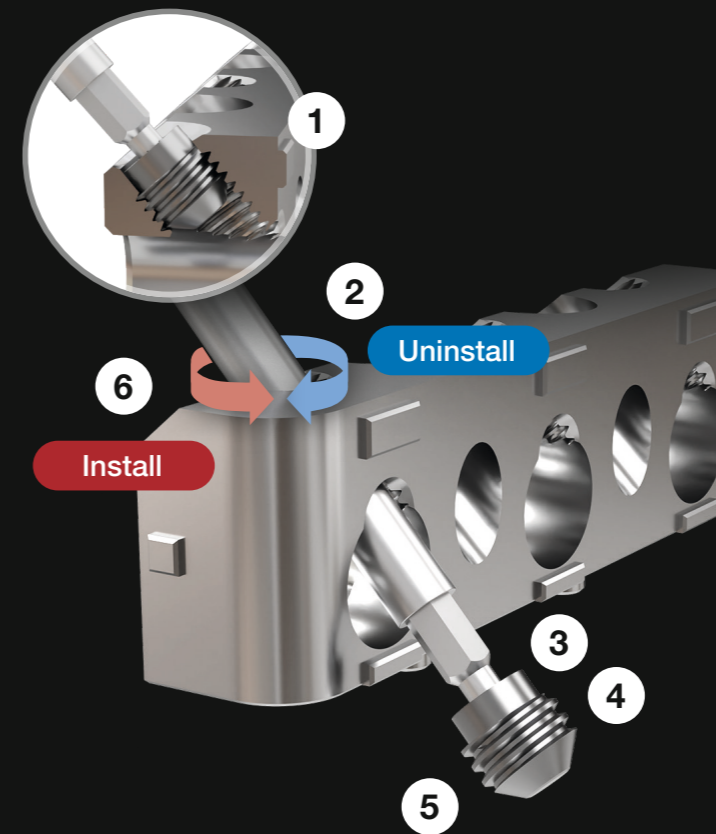
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"Tighten the Screw"



IMPORTANT!

To remove the blank, loosen the set screw (counter-clockwise) until it hits a 'stop'. Do not over-torque as this will cause damage to the screw.

Tips Uninstalling / Installing the Set Screw:



1. The set screw is embedded in the module to prevent it from loosening during use.
2. To uninstall the set screw, use the long bit of the torque wrench included in the holder kit. Torque the screw clockwise until it comes out through the module.
3. To install the screw, take the long bit through the module.
4. Then, place the screw on top of the bit.
5. Gently pull the screw until it catches the thread in the module.
6. Finally, fasten the screw backward (counter-clockwise).

Scan to the Clip
"Assembly Instruction
CORiTEC preMill System"



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 for 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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