

CAD/CAM FOR THE DENTAL PRACTICE

inPractice

SETTING NEW STANDARDS
IN DIGITAL DENTISTRY

“WITH AXSYS, I GET A
DECREASE IN MY COSTS
AND A GROWTH IN MY
PRACTICE, PLUS
COMPLETE CONTROL
OVER
TIMELINESS AND
QUALITY”

Dr. Brandon Kofford
Royal oak Dental Group



Axsys Dental Solutions • 29627 West Tech Drive • Wixom, MI 48393 • 855-687-7941

AXSYSDENTAL.COM



WHY EARLY ADOPTERS FAILED AND WHY YOU WILL SUCCEED

Technology has changed. Early adopters of digital dental technology were plagued with many problems and as a result, did not realize the quality and profit benefits anticipated for their chair-side digital manufacturing investment.

Another contributing factor to this failure was these so called "machines" lacked the rigidity of construction, fixturing, quality components, speed, versatility, and size to reliably, consistently, and effectively produce the various restoration types that are required to enable doctors to maintain or grow their practice.



With *inPractice* solutions you can provide your patients with the full spectrum of dental restorations, from the thinnest ceramic veneers to a complete oral rehabilitation. From diagnostic wax-up prototypes and acrylic occlusal splints to custom titanium abutments and full-arch bars, *inPractice* is an affordable, in-office non-stop workhorse.

inPractice.

FUTURE-PROOF SOLUTIONS

The field of digital dentistry continues to evolve. With *inPractice*, you need not worry about expanding technology or advances in materials. *inPractice* is based on an adaptable digital platform which includes our exclusive enhancements, providing you with technology that will serve your needs both now and in the future- enabling you to process new dental materials as they are developed. This OPEN platform provides you freedom to choose material, scanning, and software components that best fit your practice.

The feature-rich and easy-to-use cameo Dental CAD/CAM Suite provides software that supports the design and manufacture of a wide range of dental prosthesis and restorative components for single- and multiple-unit restorations. Our solution update program ensures you always have the latest technology at your disposal.



There are two main benefits I have received from Axsys Dental Solutions for my business:

One is predictability; I have complete control over the quality and timeliness of the products that I need.

Another benefit I get from Axsys Dental Solutions is an improvement in my cash-flow.

Patients get really excited about what I can do for them and they share that with others- so it's growing my practice. I get a decrease in my cost as well as a growth in my practice.

Dr. Brandon Kofford
Royal Oak Dental Group

DELIGHT YOUR PATIENTS

With *inPractice* solutions' expertly-tuned CAD libraries, CAM machining templates, and machine accuracy of within 5 microns, your dental restorations will have consistent, precision fits you never thought possible—the first time. If a restoration ever needs to be replaced, it can be re-milled quickly at the touch of a button and at a cost savings of up to 90% compared to traditional laboratory fabrication.



inPractice.

TAKE CONTROL

Take control over the success of your treatments with robust, innovative technology that allows you to create restoration designs to meet exact, patient-specific requirements.

STAND OUT

Separate your practice within your community and among your peers with superior technology that produces the best possible clinical results.



GROW YOUR PRACTICE

Elevate the quality, fit, finish and margin quality of your restorations. Increase profitability by eliminating remakes, decreasing installation time and eliminating unnecessary patient re-visits.

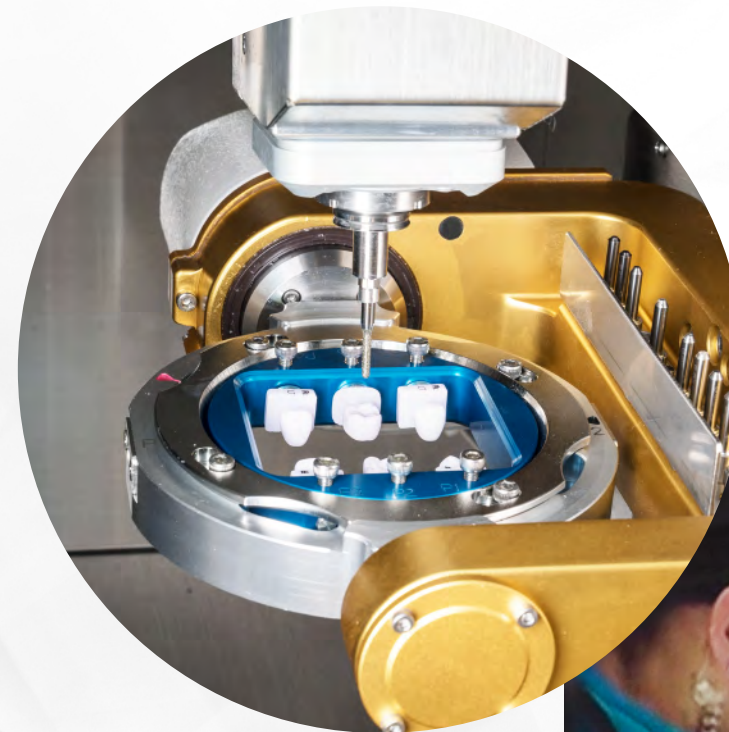
Patients appreciate technology and they expect quality care. They rely on you to deliver the promise of digital dentistry. Implementing an *inPractice* solution in your office will enable you to deliver on that promise with shortened fitting times, better fitting, more aesthetic prostheses with greater anatomic detail. These happier patients will enable you to grow your practice while realizing greater profits.

inPractice.

PERFECT FOR THE DENTAL OFFICE

Beyond the unsurpassed quality restorations provided by Versamill precision dental machining centers and other products associated with our Digital Dentistry Suite of products, there are many other characteristics that make Versamills perfect for any dental office. These include:







- Minimal post-machining handwork.
- Short machine cycle times for same day restorations if required.
- Small footprint.
- Open system (freedom to choose system components and consumables).
- Whisper-quiet 5-axis machining center.
- Fast, accurate and easy to operate.
- Wet milling provides clean operation free of equipment damaging, caustic and abrasive contaminants (typical of dry-machining operation).
- Trouble-free.



INDUSTRIAL QUALITY IN A SMALL FOOTPRINT

inPractice.

INTEGRATED PRODUCTS IN THE DIGITAL WORKFLOW

SCANNING	CAD DESIGN	CAM	MACHINING	HAND-WORK	HARDENING
 <p>Digital models are required as the first step in fabricating restorations utilizing the digital workflow. The initial data can be captured digitally via an intraoral scanner or via a scan of a impression or model utilizing a 3D dental scanner.</p> <p>We offer a choice of high-resolution scanning products utilizing the latest technology to quickly, easily and accurately capture patient anatomy to facilitate the restoration design process.</p>	 <p>Computer Aided Design (CAD) software utilizes the data captured from the scanning process allowing for the step-by-step design of the appropriate dental prosthesis.</p> <p>Software is typically purchased as a base crown & bridge application with optional modules for abutments, models, provisionals, etc.</p> <p>Cameo, our exo-cad-based CAD software is known for its speedy operation and ease of use, helping you minimize training costs and maximize productivity.</p>	 <p>Computer Aided Manufacturing (CAM) software is used to process the restoration design from the CAD software. This includes selection of restoration type, nesting into material disc, cutting bur selection, machine spindle speed and cutting feeds as well as simulation and verification of the machining process.</p> <p>Axsys provide Dental CAM Software Solutions from a variety of industry leading software publishers whose solutions enable medical professionals to design and manufacture dental products.</p>	 <p>Machine language code generated by the CAM system is transferred to a Computer Numerical Controlled (CNC) milling machine where the restoration is machined from raw stock. Machines are available in 3, 4 and 5 axis control for wet (utilizing coolant) or dry (requiring a filtration and vacuum system).</p> <p>Constructed utilizing technology found in "full-frame" CNC industrial machines, Versa-mill precision machining centers are designed to perform reliably with high precision for the long term.</p>	 <p>In addition to staining, post-machining hand-work is necessary to assure the quality of the finished restoration. The amount of which is largely determined by the quality of the design, the effectiveness of the "tool-path" generated in the CAM process, the quality of the machine tool and cutting burs. Includes removal of pins, machine marks and margin clean-up.</p>	 <p>Sintering of zirconia and crystallization of glass-ceramic material is required to achieve maximum strength for green-stage blocks. Our speed sintering furnaces offer precise program control and save you valuable production time and shorten the sintering process substantially.</p>

inPractice.

WHAT OUR CLIENTS SAY

"AXSYS' EXTENSIVE MANUFACTURING AND CAD/CAM EXPERIENCE IS UNLIKE ANY OTHER SUPPLIER OR DISTRIBUTOR OF THIS TECHNOLOGY. NOBODY ELSE CAN DO WHAT THEY DO."

Dr. Khaldoun Attar, DDS
Sun Dental & Dentures

"MILLING TECHNOLOGIES ARE NEW IN DENTISTRY AND APPLICATIONS ARE STILL BEING INVENTED. THE TEAM HELPS CREATE ONE-OF-A-KIND SOLUTIONS FOR INDIVIDUAL PROBLEMS. I HAVE CALLED THE TEAM WITH QUESTIONS, AND IDEAS FOR SOLUTIONS ALMOST WEEKLY FOR THE LAST YEAR. THEY HAVE YET TO LET ME DOWN WITH DESIGN ISSUE, IMPLEMENTATION, OR ANY OTHER CHALLENGE. THE SUBSTANTIAL NATURE OF THIS MACHINE AND THE AXSYS TEAM IS WELL WORTH THE TIME AND FINANCIAL INVESTMENT."

Robin D. Henderson, DMD, MS
Oklahoma Center for Implants & Periodontics

"THE RESTORATIONS ARE SO ACCURATE THEY REDUCE MY DELIVERY TIME BY ALMOST 50% WHICH HAS A HUGE IMPACT ON US FINANCIALLY. NOW THE RESTORATIONS DON'T NEED AS MANY ADJUSTMENTS OR REFINEMENTS IN ORDER TO COMPLETE THE APPOINTMENT."

Dr. Mark Friedman, DDS
Friedman Dentistry

"THE VERSAMILL, LIKE ITS NAME IMPLIES, IS EXTREMELY VERSATILE. THE MACHINES FROM AXSYS INCLUDE MANY EXCLUSIVE ENHANCEMENTS TO INCREASE RELIABILITY. IT ALLEVIATES MANY CONCERNS AND THEIR CUSTOM TEMPLATES ENABLE ME TO HANDLE THE MOST COMPLEX OF CASES.

THE QUALITY OF THE MILLED RESTORATIONS IS NOTICEABLE. WHEN I COMPARE OTHER COMPANIES' MILLED RESTORATIONS WITH OURS FROM THE VERSAMILL, IT IS LIKE WATCHING A HI-DEFINITION 4K TELEVISION."

Dr. Jonathan Abenaim DMD
Jonathan Dental Spa



inPractice RIGHT FOR ANY PRACTICE

Based upon an OPEN, adaptable digital platform, all components of the *inPractice* portfolio can be combined to suit your current and expanding needs. Based upon our many years of digital manufacturing experience, we have developed pre-configured packages designed to make the decision-making process as easy as possible. Each package is configured to meet your needs and includes the training and support you need so you can implement the latest in digital dental technology as quickly and as easily as possible.

FOUNDATION

For restorative dental practices, our Foundation solution provides the ability to process a wide range of indications fabricated from all soft dental materials. It is the most cost effective of the *inPractice* digital dentistry solutions.

RESTORE

For restorative dental practices, our Restore solution provides the ability to process a wide range of indications and dental materials. It is the most popular of the *inPractice* digital dentistry solutions.

RESTORE⁺

For the prosthodontic specialist, our Restore+ solution provides the ability to process a wide range of indications and dental materials. Adds the ability to process custom abutments.

PREMIER

For dental practices with a practice laboratory. Premier provides the ability to process the complete spectrum of indications and dental materials including cobalt-chrome bar over-dentures.

SETTING NEW STANDARDS IN DIGITAL DENTISTRY



Pre-Treatment Ceramic Crowns



Milled, Monolithic Lithium Disilicate



Feldspathic Veneer on Dark Incisor



Replaced Monolithic, Lithium Disilicate

FOR THE PROSTHODONTIST

Custom Implant Abutments & Bar Over-dentures



Coupling Axsys' expertise with the quality and precision of Versamill technology provides the most comprehensive abutment & bar machining solution available. Produce superior quality and handle the widest variety of design characteristics - even those of extreme divergence.

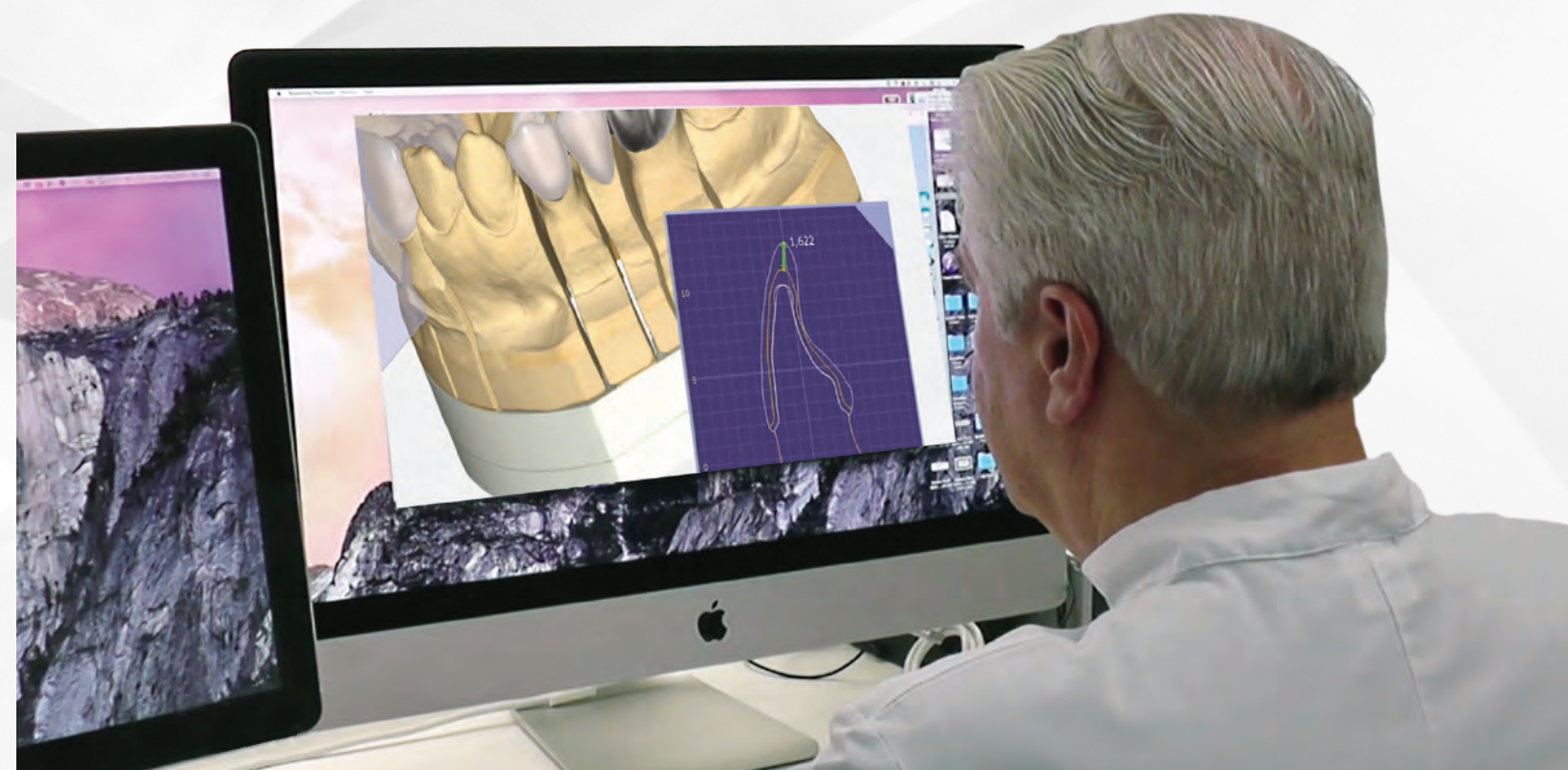
- Best possible restorative margins.
- Most aesthetic emergence profiles.
- Super-fine surface finishes.
- Perfect fits.
- Easily handle complex case such as six implant secured restorations.
- Precise retention locations.

inPractice.

MAKING THE TRANSITION

Making the transition to digital manufacturing can be a frightening proposition. After nearly 40 years of helping companies make the transition from old analog methods to digital methods, Axsys knows how to do it successfully. Even if you have little computer experience, our training programs enable you to successfully transition to the digital world in a short period of time.

Beyond training, Axsys supports you with highly skilled and experienced application engineers to address any questions, problems, or difficult cases that may appear during your day-to-day operations. They're even available when it's time for you to expand the offerings of your practice or explore new ideas to address your individual needs or plans for growth.



Foundation

HIGH-VALUE SOLUTION FOR THE RESTORATIVE PRACTITIONER

inPractice Foundation is a full-featured system for the restorative practitioner and is focused on fixed restorations fabricated from soft dental materials. It has the ability to fabricate models and restorations ranging from single-tooth crowns to full-arch rehabilitations from materials that include; zirconia, PMMA, PEEK and more—there is nothing “entry-level” about *inPractice Restore* except the cost of the solution. Practices requiring removable prosthesis can add an optional module to facilitate the creation of implant bridges and more from soft dental materials such as zirconia & PMMA.

- Full-featured CAD & CAM software.
- High-performance CAD/CAM workstation.
- Medit T-500 3D scanner.
- Versamill 5X400 dental machining center.
- Full 5-axis machine operation.
- Sintering Furnace.
- Training & more...



Foundation



SPEED WITHOUT SACRIFICE

The strength and rigidity of the Versamill 5X300D coupled with the undercut machining capability of full 5-Axis control provides perfect fits, great anatomical detail and the best possible restorative margins with faster cycle times and greater tool life.

- Single-unit zirconia crowns in less than 14 minutes.
- Full-arch restorations in as little as 60 minutes.
- 6-implant zirconia implant bridges in less than 105 minutes.



INDICATION SPECTRUM:

- Inlays, onlays, copings, crowns, veneers, splints, guides.
- Removable & fixed bridges, models, zirconia bars (with optional modules).
- Full range of soft dental materials.
- Block sizes up to 40mm.



SINGLE TOOTH RESTORATIONS AND MUCH, MUCH MORE.

At the heart *inPractice Foundation* stands our Versamill 5X300D precision dental machining center designed to perform reliably with high-precision for the long term. It can process any soft dental material from zirconia and PMMA to PEEK, composites, wax, and more.

With *inPractice Foundation* you get a complete, industrial-quality manufacturing solution used by dental laboratories and milling centers around the world but specifically designed to meet the demanding support requirements of dental practices.

MEDIT T-SERIES Power, Speed and Versatility for Your Lab

The Medit T-series has revolutionized data precision with state-of-the-art software technology, high-resolution cameras and blue light scanning technology. The latest software technology provides you with the cleanest and sharpest data. It introduces an advanced new camera system with dual 2.0 MP resolution, offering the best performance and scan data quality ever with Medit scanners.

For the ultimate scan data quality, our new T-series presents brilliance of clarity for your work. Medit T-series will save you precious time and money by minimizing trial & error to adjust restoration fits.

- Super-fast Scanning
- High Accuracy.
- Open Type Scanners
- Automated Impression Scanning
- High-resolution Cameras
- Touch Sensor - Convenience at your fingertips



Restore

FULL-FEATURED SOLUTION FOR THE RESTORATIVE PRACTITIONER

inPractice Restore is a full-featured system for the restorative practitioner and is focused on fixed restorations. It has the ability to fabricate models and restorations ranging from single-tooth crowns to full-arch rehabilitations from materials that include; zirconia, PMMA, lithium disilicate and more, there is nothing "entry-level" about *inPractice Restore* except the cost of the solution. Practices requiring removable prosthesis can add an optional module to facilitate the creation of implant bridges and more from soft dental materials such as zirconia and PMMA.

- Full-featured CAD & CAM software.
- High-performance CAD/CAM workstation.
- Medit T-500 3D scanner.
- Versamill 5X400 dental machining center.
- Full 5-axis machine operation.
- Sintering Furnace.
- Training & more...



Restore



SPEED WITHOUT SACRIFICE

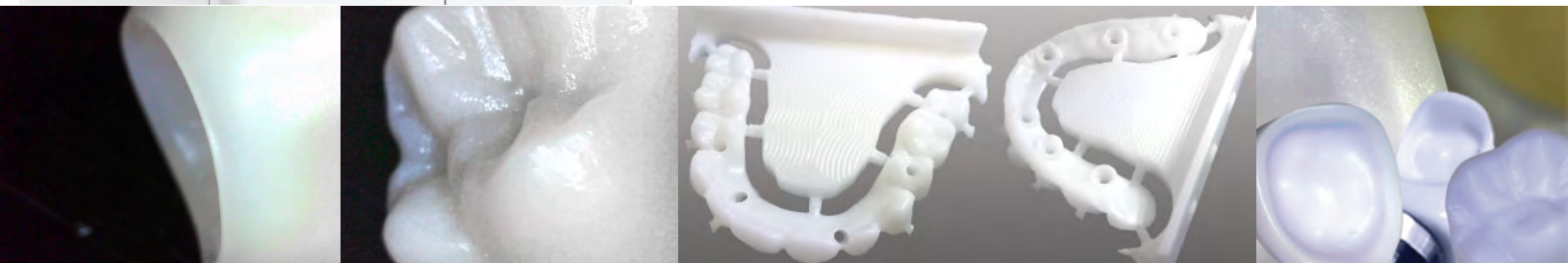
The strength and rigidity of the Versamill 5X400 coupled with the undercut machining capability of full 5-Axis control provides perfect fits, great anatomical detail and the best possible restorative margins with faster cycle times and greater tool life.

- Single-unit zirconia crowns in less than 14 minutes.
- Single-unit glass-ceramic crowns in as little as 15 minutes.
- 6-implant zirconia implant bridges in less than 105 minutes.



INDICATION SPECTRUM:

- Inlays, onlays, copings, crowns, veneers, splints, guides.
- Removable & fixed bridges, models, bars (with optional modules).
- Full range of soft dental materials.
- Block sizes up to 40mm.



SINGLE TOOTH RESTORATIONS AND MUCH, MUCH MORE.

At the heart *inPractice Restore* stands our Versamill 5X400 precision dental machining center designed to perform reliably with high-precision for the long term. It can process any dental material from zirconia and PMMA to delicate glass ceramics.

With *inPractice Restore* you get a complete, industrial-quality manufacturing solution used by dental laboratories and milling centers around the world but specifically designed to meet the demanding support requirements of dental practices.

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- Super-fast Scanning
- High Accuracy.
- Open Type Scanners
- Automated Impression Scanning
- High-resolution Cameras
- Touch Sensor - Convenience at your fingertips



Restore+



THE CAD/CAM SYSTEM FOR THE PROSTHODONTIC SPECIALIST

inPractice Restore+ is a full-featured system for the prosthodontic specialist that expands the capabilities of *inPractice Restore* by adding the capability to process custom implant abutments and other prostheses from hard materials such as titanium and cobalt-chrome.

Coupling Axsys' expertise with the quality and precision of Versamill technology provides the most comprehensive abutment machining solution available. Produce restorations of superior quality and handle the widest variety of design characteristics - even those of extreme divergence.



Restore+

HIGHEST QUALITY CUSTOM ABUTMENTS IMAGINABLE.

At the heart of our *inPractice Restore+* stands our Versamill 5X200 precision dental machining center designed to perform reliably with high-precision for the long term. Its class-leading 3Kw spindle, cast aluminum-alloy frame and rigid fixturing enable the Versamill 5X200 to process any dental material from zirconia and PMMA to delicate glass ceramics as well as hard metals such as titanium, cobalt-chrome and stainless steel quickly, with precision and quality that will astound both you and your patients.

With *inPractice Restore+* you produce custom titanium abutments in as little as 18 minutes and install them within seconds of fabrication with unmatched off-the-machine quality and outstanding tissue response.



INDICATION SPECTRUM:

- Inlays, onlays, copings, crowns, veneers, splints, guides.
- Removable & fixed bridges, bars, models, implant abutments.
- Full range of soft & hard dental materials.
- Block sizes up to 40mm.



Combining accuracy with reliability and simplicity, Imetric scanners in the 'i' level have been used for the majority of implant superstructures manufactured with CAD/CAM technology in the world since 2008.

The Imetric L1im is perfect for implant models, and the production of custom abutments, multi-implant restorations, impressions, dental models and check-bites.



SMOOTH SHOULDER AND BLEND TO POST

USER-DEFINED RETENTION GROOVES

TANGENTIAL BLEND TO INTERFACE



MOST ESTHETIC EMERGENCE PROFILES

SUB-MICRON R_a SURFACE FINISHES

FINEST RESTORATIVE MARGINS

FLEXIBLE DESIGN

Thanks to the Versamill 5X200's full-contouring 5-axis capability, rigid construction, our custom CAD libraries and robust machining templates, you produce custom abutments with ideal anatomic contours and the most aesthetic emergence profiles - even those of extreme angulation.



Premier



HIGHLY DIVERGENT
POSTERIOR MOLAR



USER-DEFINED SURFACE
FINISHES



PRECISE APPLIANCE MATING
SURFACES



EXACT LOCATIONS AND
PERFECT FITS



HIGH-QUALITY IN AS LITTLE
AS 60 MINUTES



6-IMPLANT FULL-ARCH
REHABILITATION



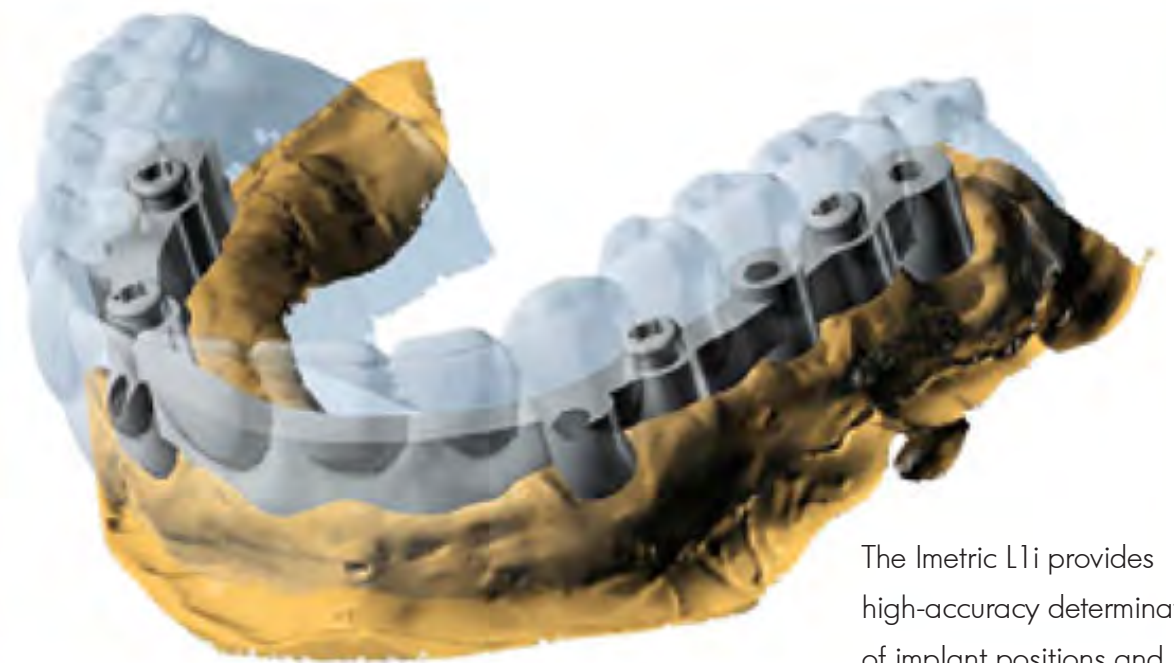
inPractice Premier PROVIDES YOU:

- The ability to handle complex cases such as all-on-six prostheses.
- Highly divergent implants.
- High-quality appliance mating surfaces.
- Precise retention locations.
- Minimum post-machining hand-work.

IMPLANT BAR OVER-DENTURES AND SCREW-RETAINED HYBRID DENTURES

The optional *Premier* module provides clinicians the ability to offer edentulous patients the safe, predictable placement of implants in order to retain a fixed or removable prosthesis from materials such as zirconia, titanium and cobalt-chrome.

Couple Axsys' expertise with the quality and precision of Versamill technology and the Imetric L1i high-accuracy scanner to produce multiple implant-supported over-dentures. Whether it be a partial or full-arch rehabilitation over-dentures, even those containing implants of severe divergence are easily produced with unmatched, off-the-machine quality and minimum



The Imetric L1i provides high-accuracy determination of implant positions and orientation.



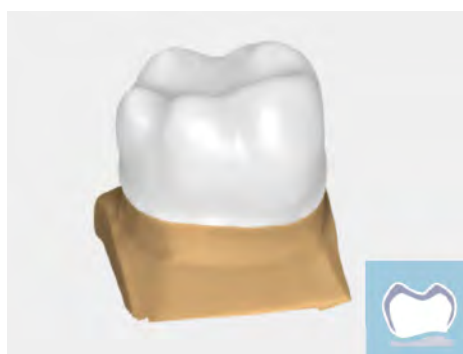
CAMEO DENTAL SUITE POWERED BY EXOCAD: YOUR FUTURE IN DIGITAL DENTISTRY

Restore

FULL-FEATURED SOFTWARE

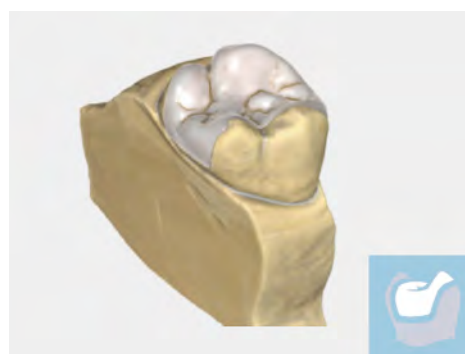
*inPractice
Restore:*

Covering a
wide variety of
indications.



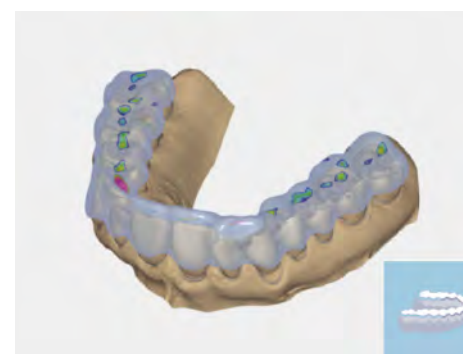
SIMPLE & ANATOMIC COPINGS

Starting from the full anatomy, you can take advantage of cutback options to create an optimal coping.



INLAYS & ONLAYS

Beautiful, natural-looking inlay and onlay restorations can be designed rapidly and easily.



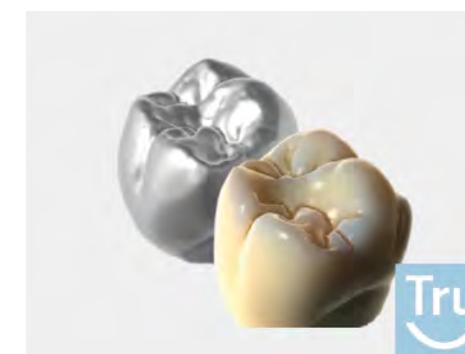
NIGHT GUARDS

Combination of Bite Splint Module and Virtual Articulator for optimal patient-specific results.



VIRTUAL ARTICULATOR

Simulate jaw movement and consider dynamic occlusion.



TRUE SMILE

Realistic rendering of dental restorations. Powerful marketing tool for dentists using chair-side CAD/CAM systems.



BRIDGE FRAMEWORK

Full contour crowns, copings, pontics, or inlays can be combined with bridges and bridge frameworks.



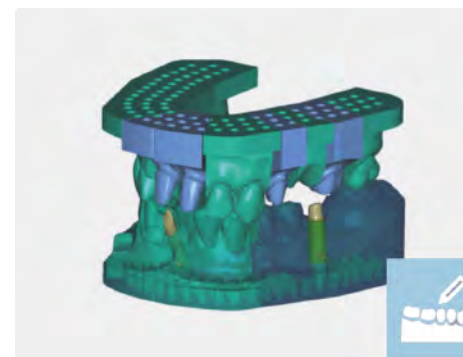
VENEERS

Achieve highly aesthetic results with just a few mouse clicks. Several beautiful tooth libraries are included.



ATTACHMENTS

Attachment shapes, from a robust library, can be added to or removed from your design.



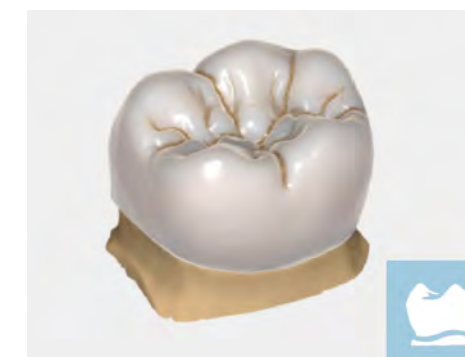
MODEL CREATOR

Create physical models from intraoral scan data or impression scans. A wide range of intraoral scanners is supported.



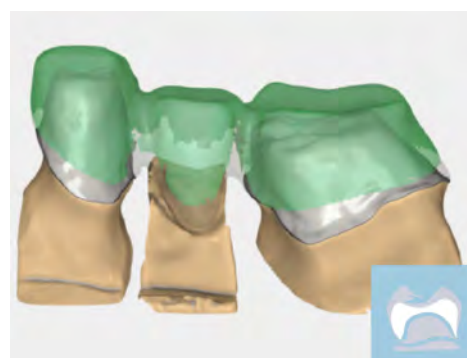
TOOTH LIBRARY

Extensive library of beautiful natural teeth. Includes the "Anteriores" collection of anterior teeth by Dr. Jan Hajt6.



ANATOMIC CROWNS

Design beautiful and functional crowns with minimal effort. Multiple high-quality tooth libraries included.



WORK WITH WAXUPS

Waxups made by hand can be scanned, edited, and copy-milled. It's also possible to create waxups digitally.



TELESCOPIC CROWNS

Cameo gives you maximum flexibility when designing telescopic crowns.



TEMPORARIES

Design individual temporary crowns and bridges using the eggshell technique.

FASTER WORKFLOWS

FLEXIBILITY

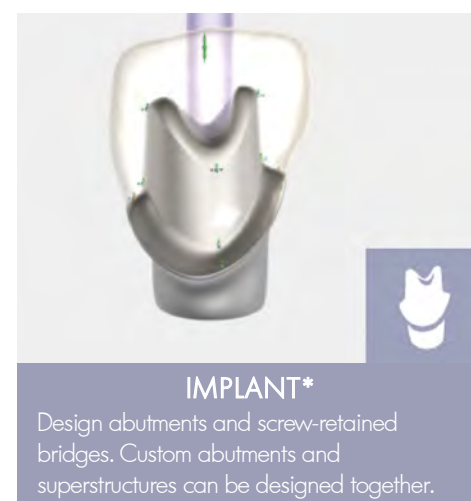
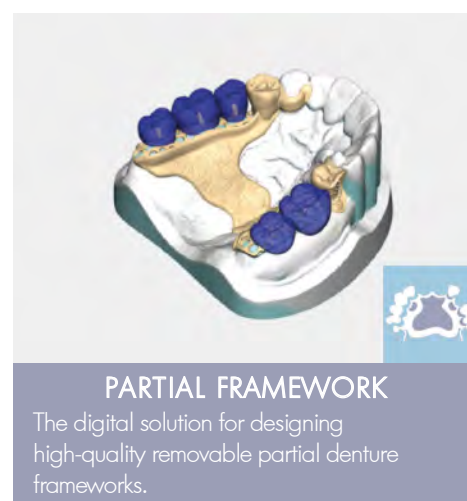
FUTURE-PROOF



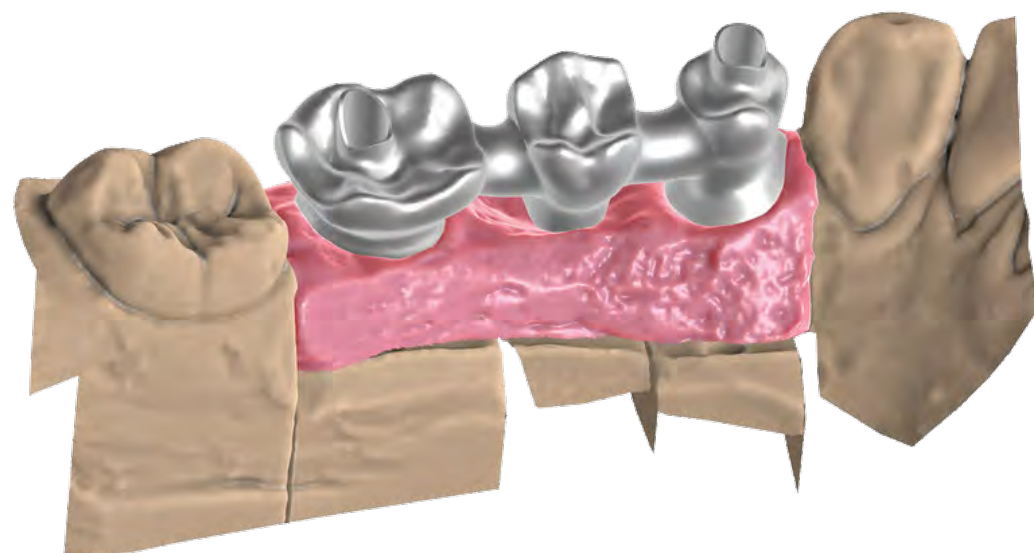
Restore+

FULL-FEATURED SOFTWARE

PROVIDING THE ENTIRE SUITE OF CAMEO
Restore FUNCTIONALITY PLUS
ADDITIONAL MODULES FOR THE
PROSTHODONTIC SPECIALIST.



*Optional add-on module: Restore



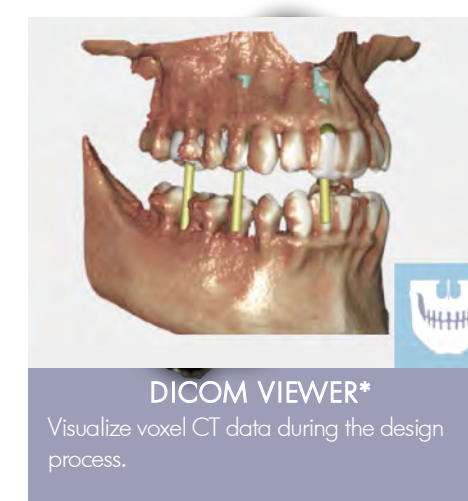
The design of screw-retained bridges, crowns and copings also becomes an easy task while a huge selection of implant systems is supported – from top-tier implant manufacturers to smaller local sources.

Premier

FULL-FEATURED SOFTWARE

EXPAND THE FUNCTIONALITY OF
Restore+ BY THE ADDITION OF
MODULES TO SUPPORT THE DESIGN
OF IMPLANT BARS.

- Faster workflows, improved proficiency.
- Complex procedures become more simple and efficient.
- Flexibility as you require.
- Reliability you can trust.
- Independent & innovative.
- Truly future-proof.



*Optional add-on module: Restore



ADVANCED BAR DESIGN FOR BOTH STANDARD AND COMPLEX BARS

The bar is designed to be supported within the context of full anatomical restorations. Attachments or retentions can be added to the design; cylindrical holes or even arbitrary geometries can be cut out in order to bolt or glue pre-fabricated attachments onto the bar.

Dentalshare

COLLABORATIVE CASE SHARING

Fast, Secure, and Easy Communication

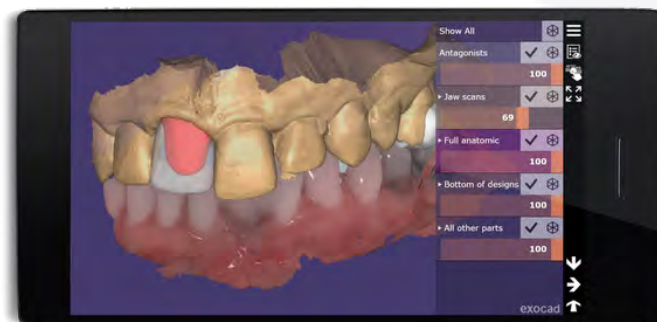
It's more than just 'upload to milling center' - dentalshare covers the full spectrum of multi-directional digital communication between clinicians, dental technicians, and production centers for you.

dentalshare enables distributed workflows and efficient on-line collaboration. We use next-generation compression technology, combined with a robust transfer protocol, so that even big datasets travel through unreliable mobile network connections and restrictive firewalls with ease.

For maximum reliability and fast network throughput, exocad operates its own redundant, distributed server infrastructure with multiple gigabyte internet connections and server locations around the world.

Dentalshare Webview

Free app allows you to send true 3D previews that can be viewed directly in your web browser.



Transparency & Privacy

As a dentalshare user, you're in complete control of what data is being sent, and when. Only share the information you will want to share with the recipient of your dataset.

inPractice

DENTAL FURNACES

Axsys Dental Solutions offer a choice of sintering and porcelain furnaces for a wide range of applications and requirements: Models in widely differing versions and sizes are suitable for both small laboratories and large milling centers. They are the ideal complement to any CAD/CAM system. As a user, you can be flexible when choosing your materials, without relying on one particular brand, as all our high-temperature furnaces can be programmed individually.

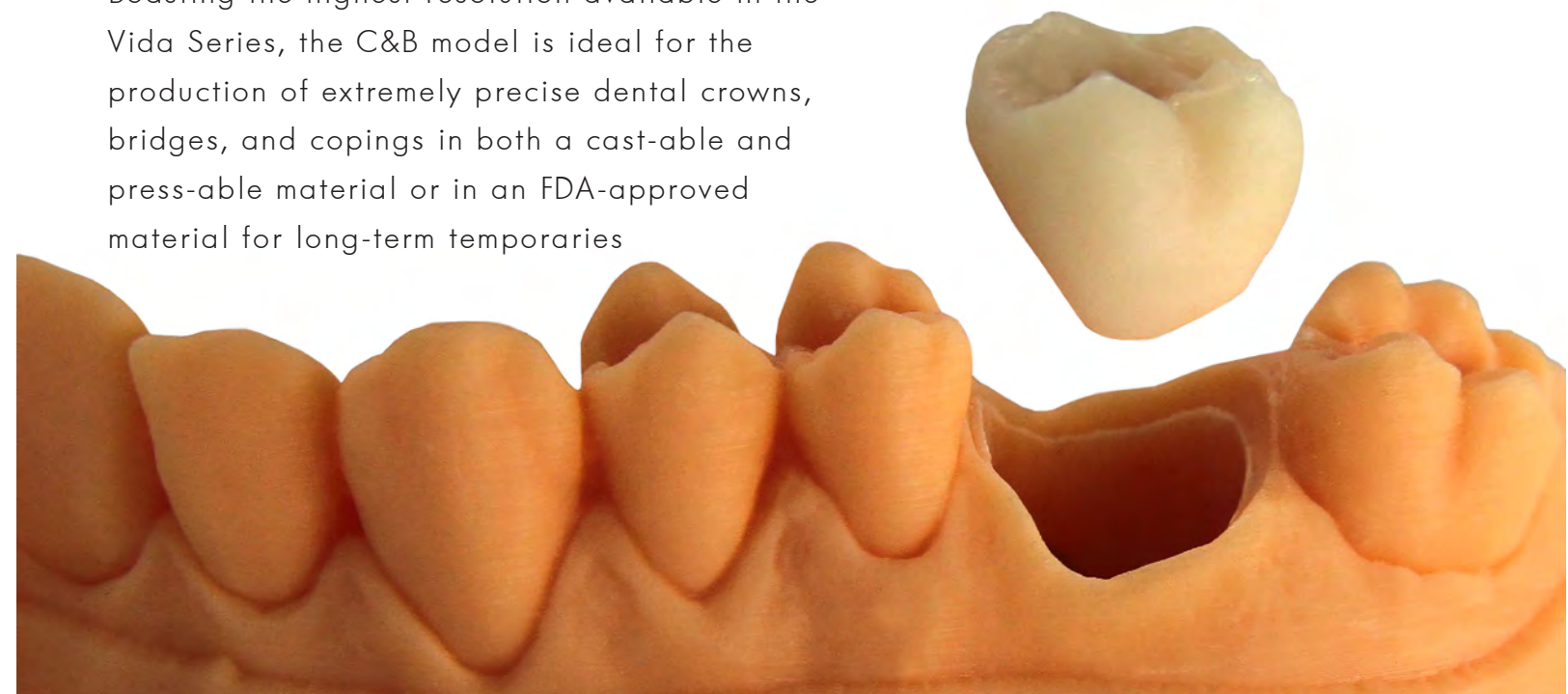


Our speed sintering furnaces save you valuable production time and shorten the sintering process substantially, depending on the material. Speed programs use less energy and therefore help to protect the environment and reduce your consumption costs.

3D PRINTERS

EnvisionTEC 3D Printers Deliver

Boasting the highest resolution available in the Vida Series, the C&B model is ideal for the production of extremely precise dental crowns, bridges, and copings in both a cast-able and press-able material or in an FDA-approved material for long-term temporaries.





inPractice

DIGITAL DENTURE SYSTEM

CAD/CAM Dentures are produced utilizing advanced scanning, dental CAD, milling, and 3-D printing. The digital process of designing and manufacturing the try-in and final denture is another step in the evolution of CAD/CAM dental solutions. Once finished, the digital design file is a complete representation of the patient's dentition that can be leveraged to fabricate replacement restorations, including implant-retained prostheses.

The components of our denture manufacturing solution include 3D scanners, dental CAD design software and ideally coordinated materials. Combining these elements with specialized CAM software with expertly-designed manufacturing strategies for select award winning Versamill 5-axis milling machines, or the cutting-edge EnvisionTEC 3D-printing platform, provide highly-accurate, predictable and reproducible results.

MATERIALS

Rated amongst the top strongest PMMAs in an independent Ohio State University research study published in the Journal of Prosthetic Dentistry. Use Polident digital denture discs to produce esthetic and functional full or partial dentures. Discs can be used for immediate load implant denture as a long term provisional in combination with denture teeth and titanium connectors. CAD/CAM denture discs include:

- Pink Denture Base Discs (custom colors available).
- Full Denture Discs: Shades include pink base with choice of A1, A2, or A3 dentin layer.
- Shaded and 3- or 5-layer multilayer PMMA discs. Shades include: A1-A3, B1-B3, bleach and enamel E1, E2.

Axsys offers PMMA artificial teeth from Polident for the production highly esthetic multilayered high-end anatomical teeth to produce the most life-like dentures possible. Polident teeth are available in complete sets of 28 teeth for total dentures or in separate sets of 6 or 8 teeth. Three product lines are available with comprehensive mold charts representing a wide variety of sizes, shades and shapes in each product segment. These highly asthetic artificial teeth can be attached on a denture base with PMMA resin or light curing composite material with proper primer

FABRICATION

Our solution includes fabrication utilizing our award winning Versamill dental machining centers or EnvisionTEC 3D printers both of which are known for delivering excellent precision, surface finish, functionality and speed. Denture materials include E-DENT, FDA-approved base material, E-DENT-200 for long term crown & bridge provisionals and E-DENT-400 FDA-approved solution for the accurate 3D printing of crowns and bridges for long-term or temporary use.



The Easy Entry Into DIGITAL DENTISTRY

EXPLORE YOUR OPTIONS

With state-of-the-art CAD/CAM technology, you can take digital or traditional impressions, then design and mill restorations quickly without outsourcing. Or you can choose an à la carte option that fits your needs –that may be as simple as taking a digital impression in-office, then sending it instantly to a lab for fabrication.

Patients appreciate technology and expect great care. They value dental practices that offer the convenience of single-visit restorations and the quality associated with CAD/CAM technology. Regardless of the technology you choose to adopt, Axsys Dental Solutions is fully committed to assuring you successfully integrate CAD/CAM into your practice.

INTRAORAL SCANNING

The digital workflow of CAD/CAM dentistry starts by generating a digital impression of a patient's mouth. From there, you can use in-house or off-site dental labs to complete a variety of procedures. The Medit i500 from Axsys Dental Solutions allows you to quickly take a digital impression – where you process the impression is entirely your choice.

With its impressive speed and powder-less system, the i500 allows for a smoother scanning experience, shortening turnaround time and increasing the productivity of your clinic.



High-quality, Right-priced Dental Materials

Axsys offers an assortment of dental materials in a range of sizes and configurations for manufacturing of dental restorations. Whether it be PMMA, zirconia, stainless steel or titanium, we can provide high-quality, blank CAD/CAM discs in a size and configuration to meet the needs of dental practices, labs and milling centers; regardless of their CAD/CAM software system or CNC dental milling machine manufacturer.

AxZir™ Full-contour Dental Zirconia

Utilizing our pre-shaded discs, dental professionals can simply and consistently produce all 16 Vita A-D shades as well as bleach shades. No dipping or use of coloring liquids is required at any point in the process, helping to ensure a consistent aesthetic result.

Multi-layered and pre-colored discs are also available. Colored zirconia blocks are available in LL1, LL2, LL3, LL4, LL5. Or A1-D4 vita 16 classical shades.

AxZir^{xt} Multilayer Zirconia - Gradients in Three Dimensions

AxZir^{xt} multilayer zirconia provides natural gradients of color, translucency and strength producing restorations of unmatched aesthetics and strength.

Featuring 6-layer natural color transition, Translucency from 57% incisal to 43% cervical, Strength gradient from 600 Mpa to greater than 900 Mpa. Available in VITA classical A1-D4® shades for anterior & posterior crowns and bridges.

