



AMANNGIRRBACH

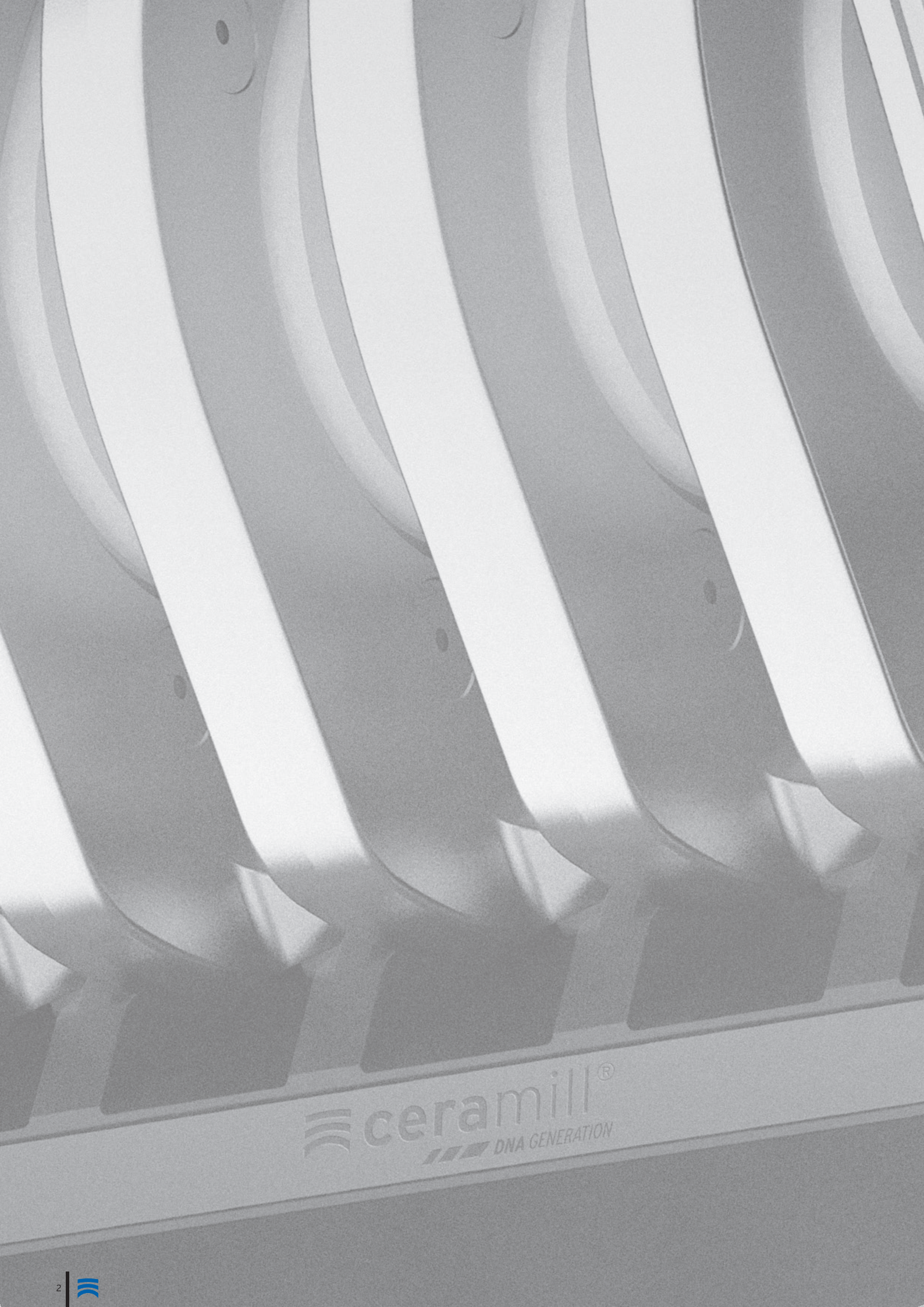


#OneOfAKind



IDS 2019

WWW.AMANNGIRRBACH.COM



 **ceramill®**
DNA GENERATION

UNIQUE DENTAL TECHNOLOGY. UNIQUE PERFORMANCE.

Staying on top, at the top of the food chain. Our panther already symbolized this in 2009, with the introduction of our fully integrated CAD/CAM system. Ceramill CAD/CAM was a triumph right from the beginning and in 2012, with the advent of the Ceramill Motion 2, truly blazed a trail for the "Inhouse Movement". The laboratories recaptured what had already seemed lost to industrial manufacturing centers, namely the control and value creation in their own laboratories. So why "bring back" the panther when it has already served its purpose? Quite simple - because something really big is just about to happen which has the potential to sustainably improve your daily laboratory routine - in every respect. Something you won't find anywhere in this form except at Amann Girrbach. **#OneOfAKind**

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CERAMILL MIND

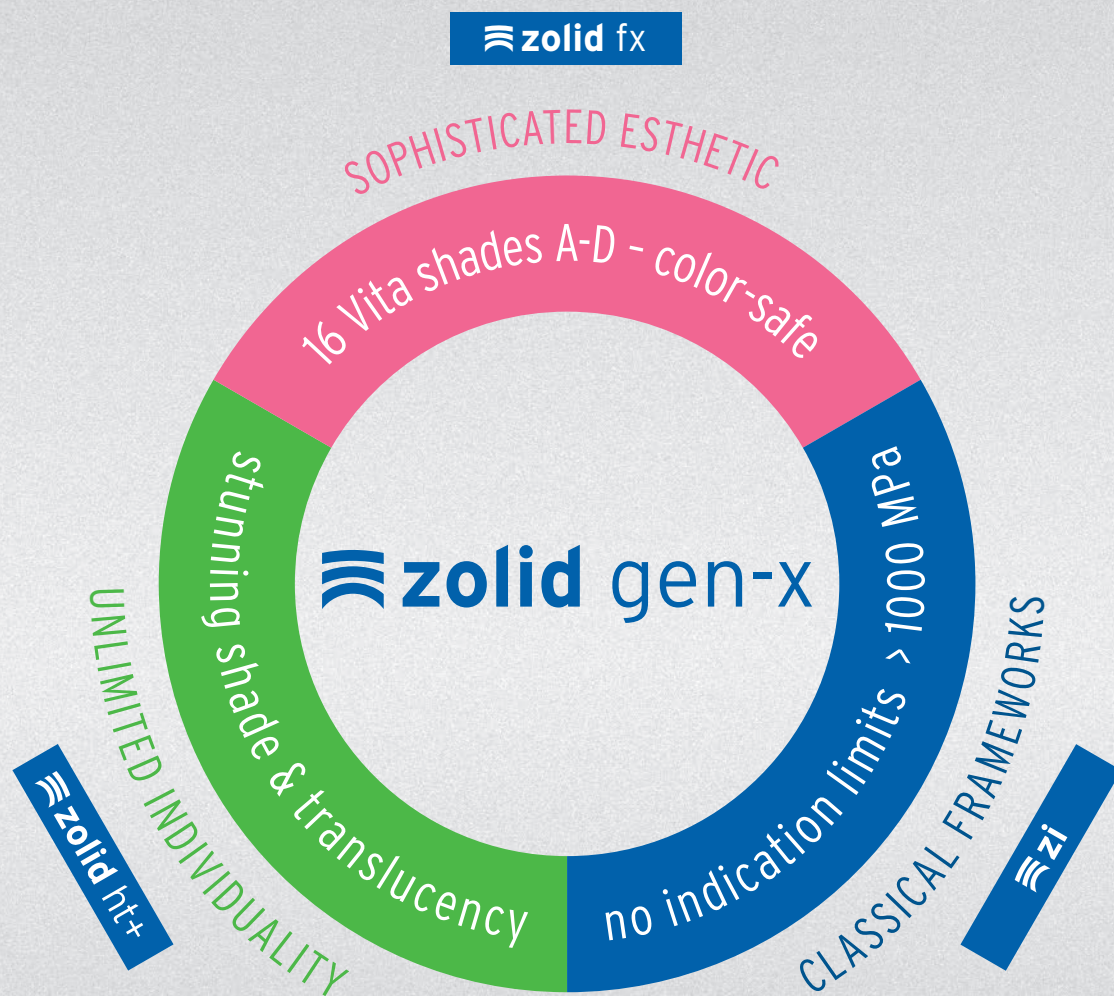
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The image features a close-up of several dental crowns made from a dark, polished ceramic material. The crowns are arranged in a row, with their bases visible. Above the crowns, several metal milling tools with different cutting edges are positioned, suggesting the manufacturing process. The entire scene is set against a solid blue background.

 **ceramill®** material

ZOLID GEN-X - THE UNIVERSAL ZIRCONIA

Zolid GEN-X puts an end to the time-consuming search for the right blank for the required restoration, quite simply because the latest blanks of the Zolid DNA generation are true all-rounders! Zolid GEN-X combines all the advantages of the Zolid HT+ product group: the excellent esthetic properties and outstanding mechanical values exceed any indication limitations. In addition, Zolid GEN-X possesses a natural color gradient that takes the blank to a new level in terms of efficiency and esthetics.



ZOLID GEN-X - THE NEW LAB ESSENTIAL.

1 NO LIMITS

Due to the natural esthetics and the flexural strength of over 1000 MPa, virtually all types of indications are easy to realize.

2 PRETTY NATURAL

The flowing color and translucency gradient is a perfect imitation of nature. Add to this the given color fidelity as a result of the optimally matched 16 Vita shades

3 FUN FROM THE WORD GO

Due to the harmonious integration into the "Esthetic Management" and the corresponding detailed description of the manufacturing process, Zolid GEN-X promises to be fun right from the start.

4 SAME, SAME BUT DIFFERENT!

In addition to the new features, Zolid GEN-X embraces all the advantages of Zolid HT+. With more than 2.5 million units manufactured since its launch, this material class has already become exceedingly well established.

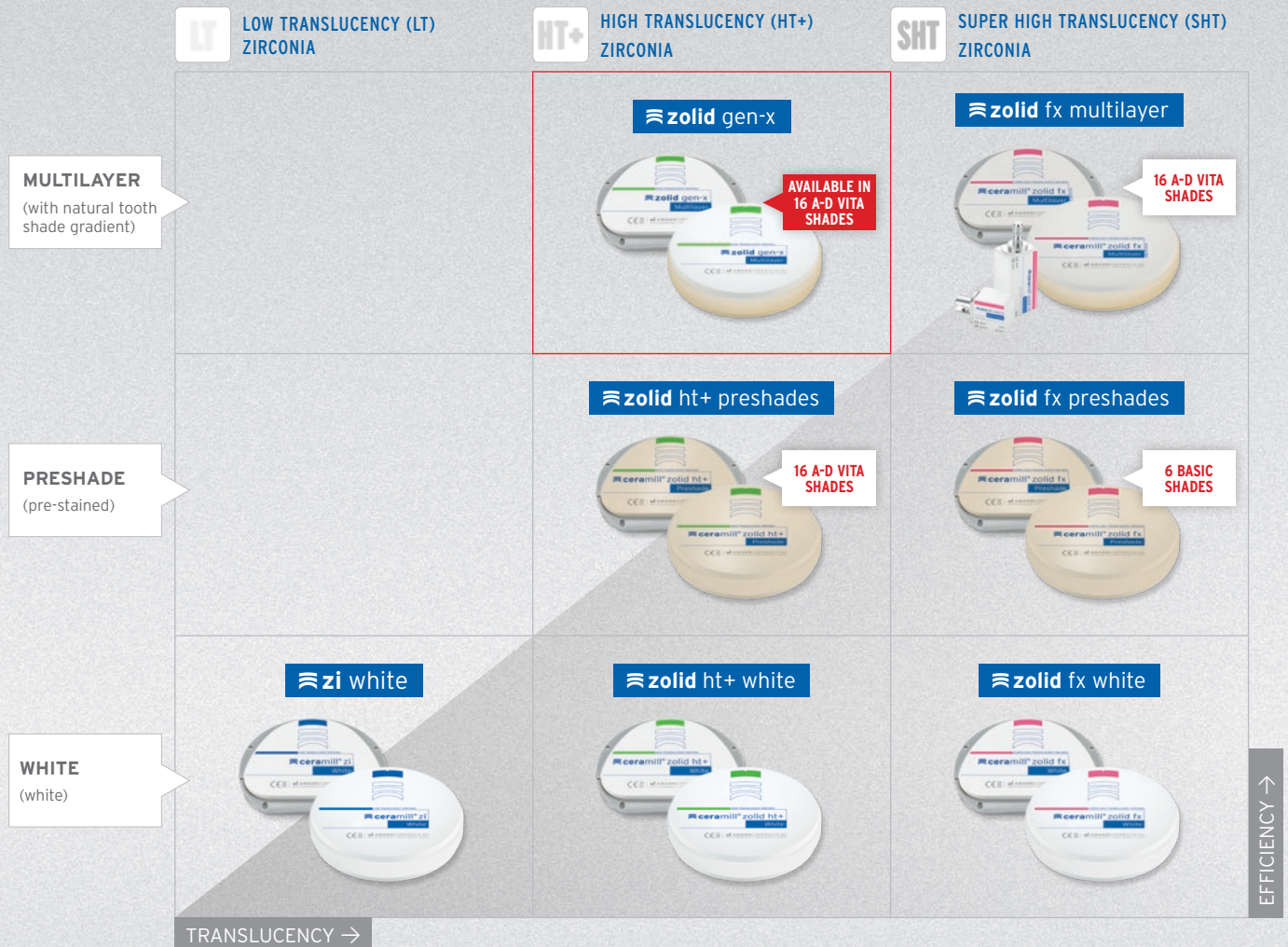
5 THE BEST CHOICE

With its outstanding properties, Zolid GEN-X can be used for almost any restoration. This reduces the complexity of choosing the right blank based on size and position.



ZOLID DNA PORTFOLIO - THE RIGHT SOLUTION FOR EVERYONE

The Zolid DNA Generation heralds a new era. What started with the introduction of the Ceramill DNA milling machines now continues in the materials sector. The goal is the best zirconia product range - no more, no less. Developed and manufactured in-house, to meet the highest demands for esthetics, quality and economics in your dental laboratory.



COLOR AND PROCESS SAFETY

Because we create natural esthetics through our own color development with its consistent color concept.



EFFICIENCY AND ECONOMICS

Because we match all parameters to technical dental requirements and offer a seamless workflow from A to Z.



QUALITY

Because we only manufacture at our own site with the best raw materials, on state-of-the-art production equipment.

WE CARE ABOUT QUALITY - MORE THAN OTHERS...

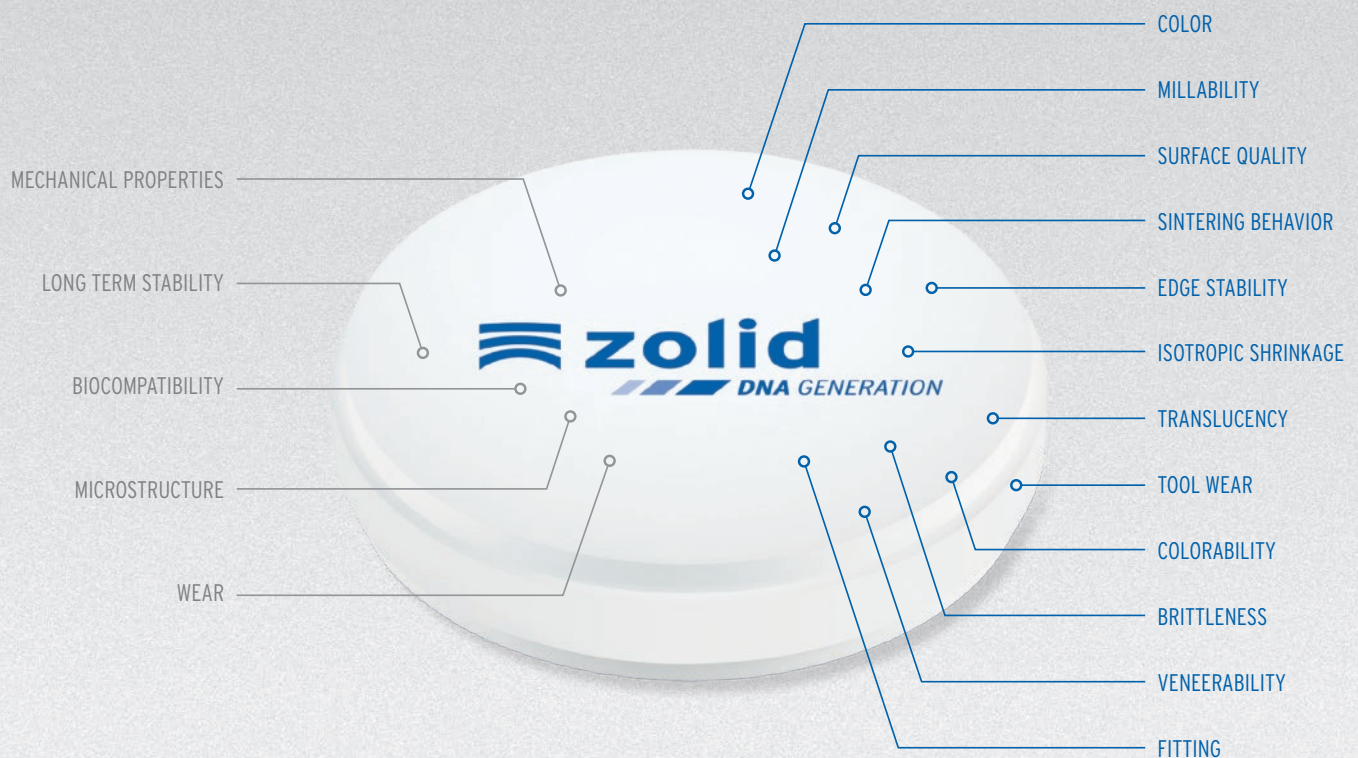
Zolid DNA blanks are manufactured 100 % in-house at the Amann Girrbach Headquarters in Austria. Since the beginning of 2017, zirconia-blanks as well as milling machines and Ceramill Sintron have been manufactured in our new production facility with over 5'500 m² and more than 60 employees at Rankweil/Austria.



This allows the rapidly growing demand for zirconia blanks to be met and at the same time new innovations to be produced quickly and reliably.



NEXT LEVEL QUALITY IN ZIRCONIA

The in-house development and production of the Zolid DNA blanks allows us to have a greater influence on the process-relevant material parameters. Only the best raw materials are processed to blanks using the strictest test methods and specified, certified processes. This is the only way to ensure that all material parameters are perfectly matched to the needs of dentistry. Fully embedded into the Ceramill CAD/CAM workflow, this results in an efficient and safe system with tailor-made solutions.



 safety-relevant properties (partially normative)
 application-oriented properties, additionally checked by Amann Girrbach (not normative)



- _Esthetics as ease - highest esthetics whilst maintaining reproducible efficiency in coloring workflow**
- _Increase your profits - with a minimal failure rate due to perfect adjusted properties for the dental application**
- _One for all - standardized workflow parameters to enable easy processing with all classes of zirconia, regardless of the zirconia type that is used**

ESTHETIC MANAGEMENT - AS ESTHETICS ARE NOT HAPPENSTANCE

"AG Esthetic Management" makes the fabrication of highly esthetic restorations from zirconia easier than ever. The focus is on simplifying and optimizing all work after milling the restoration. The clearly illustrated instructions for use and numerous video tutorials guide users through the process step by step. In addition, users have a wide range of courses and online webinars at their disposal. Add to this the new products and aids that make daily work with zirconia considerably easier for the user.



- _ A systematic solution, which, thanks to the consistent expansion of the AG precision chain, creates a significantly more convenient fabrication process for Zolid restorations**
- _ Highly esthetic and reproducible results thanks to detailed guidelines and numerous video tutorials ensure satisfied dentists and patients**
- _ Maximum efficiency and safety thanks to the broad spectrum of aids for optimum processing of restorations made of Zolid zirconia**

PERFECTLY TAILORED AIDS FOR EVERY LABORATORY

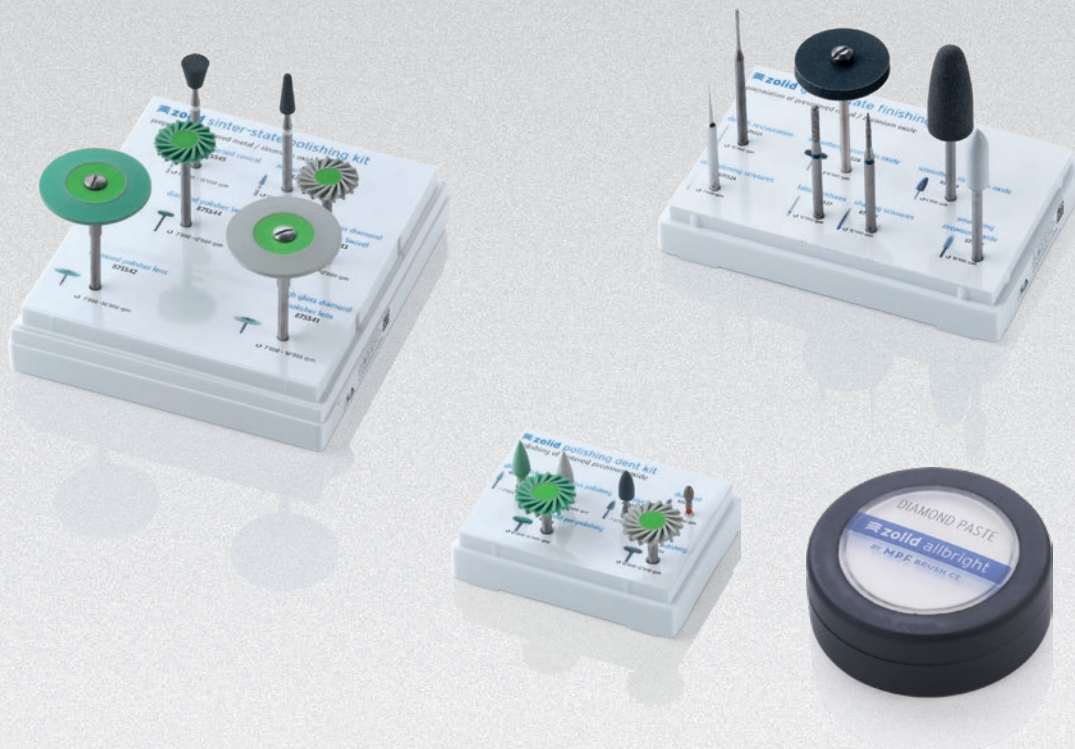
The choice of the right aids is crucial for success. Amann Girrbach offers a diversified range of aids, from brushes and ceramic mixing palettes to useful accessories for the firing process, which guarantee attractive results all round with certainty. All details and products at:
www.amanngirrbach.com/esthetic-management



REMOVE & REFINE - TREAT YOUR ZIRCONIA RIGHT!



The choice of the right tools for reworking is crucial for long-lasting, highly esthetic restorations made of Zolid. For this reason, three different sets and a polishing paste are available to the user to optimally support the finishing of zirconia restorations. The "Remove and Refine" process is accompanied by extensive training material in the form of instructions and video tutorials.



- _ Safe and material-friendly finishing of Zolid restorations throughout the entire fabrication process
- _ Wide range of different tools for individual processing
- _ Supported by illustrated instructions and video tutorials for each process step



"Post Processing in the most possible minimalistic way. Esthetic Management has the complete set I need for a high end finish."

CDT Alexander Wuensche
Zahntechnik, USA



"You don't want to miss the Sinter-State Polishing Kit in the lab - your zirconia cases will shine in just a few moments"

MDT Mauro Cuccagna
Laboratorio Cuccagna, Italy



"Achieve fine, smooth and highly glossy results with only one Kit- the Sinter-State Polishing Kit."

CDT Atsushi Hasegawa
Organ Dental Lab, Japan



"Well balanced Sinter-State Polishing Kit with all the tools you need to achieve excellent results!"

CDT Sandi Trkulja / CDT Mauro Ahmic
Dental Inpuls, Croatia

INTERNAL FINISH - MAXIMUM INDIVIDUALITY OWING TO COORDINATED STAINING LIQUIDS AND ACCESSORIES



With a broad range of staining solutions and the corresponding processing techniques, Amann Girrbach offers tailor-made solutions for the customization of white Zolid restorations before sintering. A wide range of A-D liquids, effect colors and aids such as, for example, Ceramill Liquid Eye, Ceramill Dimmer or Zirconia Stain brushes perfectly completes the portfolio. A comprehensive range of training materials is also available to the user for this process step, ensuring the highest level of esthetics and reproducible results.



- _ Premium esthetics and the highest level of customization
- _ Material-specific liquids for every zirconia and the perfect shade match
- _ Matched aids and extensive training materials for reproducible, highly esthetic outcomes



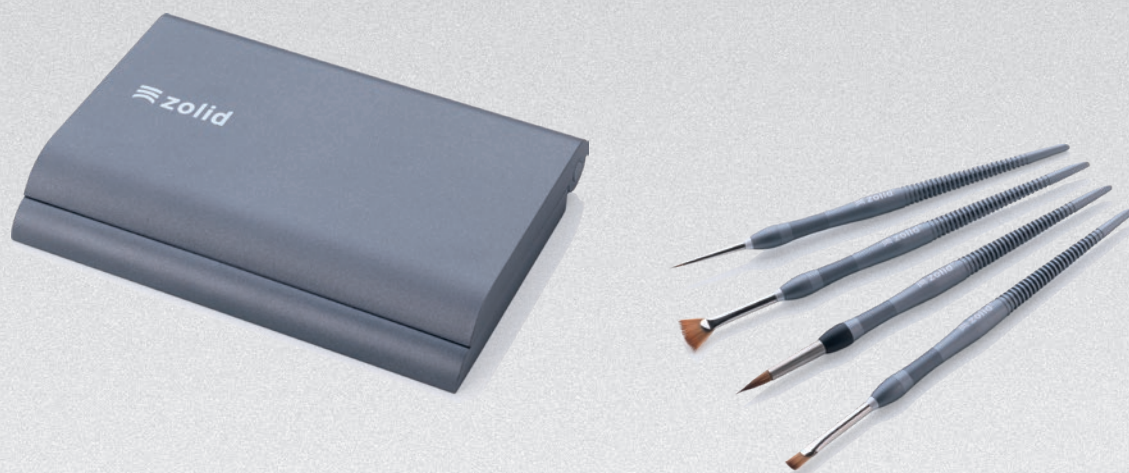
"The New Esthetic Management tools are just amazing. It makes the device set up just perfect to combine the digital workflow with the traditional artistry."

CDT Alexander Wuensche
Zahntechnik, Miami/USA

EXTERNAL FINISH - THE PERFECT FINISH



After sintering, Zolid restorations can be further individualized and finalized by applying veneering ceramics or stains. Here, too, the choice of the right aids is crucial for success. Amann Girrbach offers a wide range of aids, from brushes and ceramic mixing pallets to useful accessories for the firing process, which guarantee attractive results all round with certainty.



- _ Easy to achieve maximum esthetics due to a wide range of aids for the work steps after the sintering process**
- _ Reliable processing due to products matching the zirconia material**
- _ Comprehensive training materials for reproducible, highly esthetic outcomes**



"The porcelain brushes of Amann Girrbach's Esthetic Management are the final kick to bring high end to the next level."

CDT Alexander Wuensche
Zahntechnik, Miami/USA



"The brushes have a superior quality and excellent handling."

MDT Mauro Cuccagna
Laboratorio Cuccagna, Italy



"You can literally feel the quality in your hand! And extra plus is the exchangeable tip of the brushes!"

CDT Sandi Trkulja / CDT Mauro Ahmic
Dental Impuls, Croatia



"With these lightweight aluminum brushes the ceramic buildup can last forever - you won't get tired!"

CDT Atsushi Hasegawa
Organ Dental Lab, Japan

BECAUSE GOOD ESTHETICS IS NO COINCIDENCE



A product is only complete if one knows how to use it correctly. For this reason, Amann Girschbach offers a comprehensive information and training offer as well as all aids for the use of Ceramill zirconia, to ensure that esthetics are not simply a matter of chance. The combined expertise is found on the homepage in the Esthetic Management media library: www.amanngirschbach.com/de/esthetic-management/know-how

3 EDUCATION ESSENTIALS FOR TECHNICIANS:



Application Guide

Based on practical applications, the Application Guide gives a step-by-step explanation of the process for fabrication of restorations in the typical indication range for the Zolid DNA blanks and takes one through the correct processing of Zolid zirconia in a didactically well prepared manner.



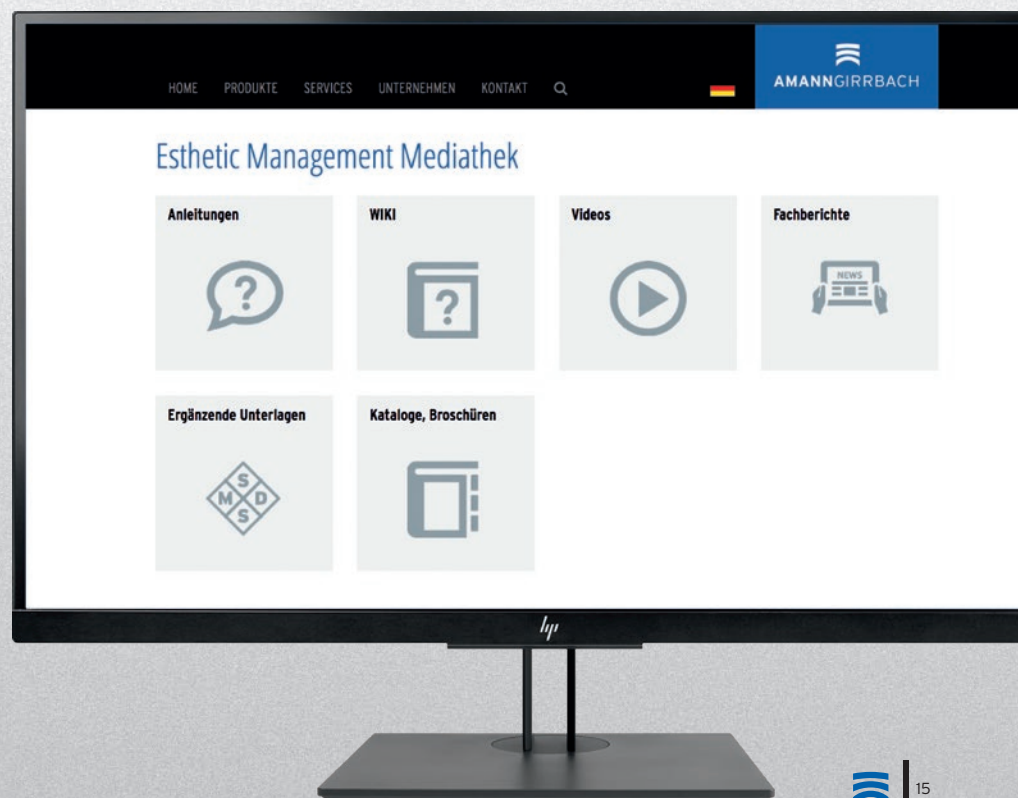
Courses

Perfect esthetics and precise processing of the material are the focus of our courses. With a view to the requirements in dental practice, theoretical background knowledge is combined with tips on the correct management of Zolid DNA Generation blanks. Next to traditional hands-on courses, users can also simply participate in webinars via their PC. This saves time and creates new options in the field of training and further education.



Video Tutorial

The individual sequences of the video tutorials take the user "hands on" through the customising process for selected indications. Besides preparing zirconia restorations, the emphasis is on individualization with liquids, stains and veneering materials.



ZOLID DNA - CLINICAL COMMUNICATION FOR YOUR TREATMENT SUCCESS

Long term patient satisfaction and treatment success is always the result of the close teamwork of dental technicians and dentists in combination with outstanding materials.

The brand-new three-part "Clinical Guides" communication series is based on the collective knowledge that is crucial for clinical success and supports the dentist in the best possible manner.

What actually is Zolid? What are the advantages? How do I use the material and how is it processed? One is often confronted with these questions and the answer should no longer pose a problem with the new Clinical Guides.

In addition, the clinical evidence of the AG zirconia products is underlined once again with the "Scientific Compendium". This includes all Zolid studies, distilled to a single page and presented in an understandable way - Science to go!



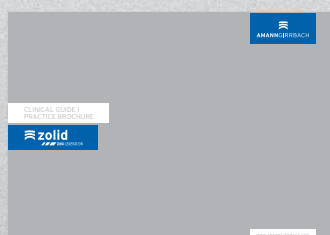
ZOLID DNA - IT WAS NEVER SO EASY TO SUCCEED!



3 EDUCATION ESSENTIALS FOR DENTISTS:

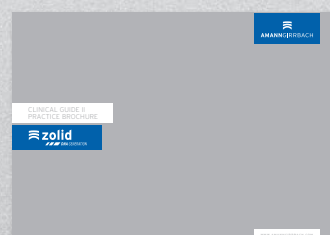
CLINICAL GUIDE I Practice brochure

All important information about the Zolid DNA System



CLINICAL GUIDE II Practice guideline

Step-by-step preparation, luting, surface polishing



CLINICAL GUIDE III Scientific compendium

Compendium of Zolid DNA studies





Zolid HT+ Preshades
Atsushi Hasegawa, Japan



SINGLE SPEED OF LIGHT

WORK IN PROGRESS

FAST, ESTHETIC, EFFICIENT - THE "RAPID SINTERING TECHNOLOGY" FROM AMANN GIRRBACH REVOLUTIONIZES THE PRODUCTION OF CROWNS FROM ZIRCONIA.

Together with top-level development partners from industry and research, a sponsored innovation project was launched with the aim of massively shortening the production times of small zirconia restorations.

Everyone knows so-called speed-sintering programs, which usually take 1.5-2 hours. With the development of a special high-temperature furnace and the corresponding materials, it was possible to reduce the sintering time to approx. 20 minutes within the scope of this project. And of course, this is based on the premise that the short sintering time has no relevant influence on the mechanical and optical properties of the restoration.

Perfectly integrated into the Ceramill workflow, highly esthetic Zolid RS crowns can be realized in less than 40 minutes. This creates a high degree of flexibility together with effective workflows in everyday laboratory routines.



DESIGN & SCAN ~ 4 MIN.

MILLING ~ 15 MIN.

RAPID SINTERING ~ 20 MIN.



< 40 MINUTES

- _ Highly esthetic individual restorations in roughly 20 minutes allow for maximum flexibility in the laboratory and minimize waiting times at the dentist's
- _ Validated processes developed jointly with top-level cooperation partners from industry and research ensure long-lasting and safe restorations.
- _ Perfectly integrated into the Ceramill workflow, highly esthetic Zolid RS crowns can be realized in less than 40 minutes. This creates a high degree of flexibility together with effective workflows in everyday laboratory routines.

PRETTY FAST

WORK IN PROGRESS

Zolid RS forms the perfect basis for restorations which are sintered in approx. 20 minutes. Perfectly matched to the 16 Vita shades and with natural color and translucency gradients, this material guarantees safe and efficient processes. The different block sizes allow production of up to 3-pontic bridges.

- _The natural translucency with integrated color gradient creates lifelike restorations in next to no time
- _The 16 shades, which are perfectly matched to the Vita shade guide, ensure unerring and esthetic results
- _The shortened sintering time has no relevant influence on esthetics or strength for restorations up to three units



RACE PERFORMANCE AND MAXIMUM FLEXIBILITY

The new Ceramill Therm RS high-performance furnace allows the sintering of small zirconia restorations in approx. 20 minutes. The intuitive operating concept offers the suitable sintering program for every indication and thus significantly increases comfort in everyday routine. Unlike conventional sintering furnaces, this furnace uses a high-performance heating element, and heralds a new era in speed, flexibility and energy efficiency. Despite its compact design, the furnace combines the most important process steps in the fabrication of zirconia restorations in a single machine: pre-drying, sintering and glazing. This makes the Ceramill Therm RS the ideal addition and maximizes flexibility in everyday laboratory routines.

- _Speed sintering cycle of Zolid RS restorations in approx. 20 minutes without any relevant loss of esthetics and strength
- _Innovative operating concept with individual sintering programs provides high comfort and safe processes
- _New era in speed, flexibility and energy efficiency through the use of a high performance heating element



Rapid
Sintering

~ 20 mins.

CERAMILL A-LINE

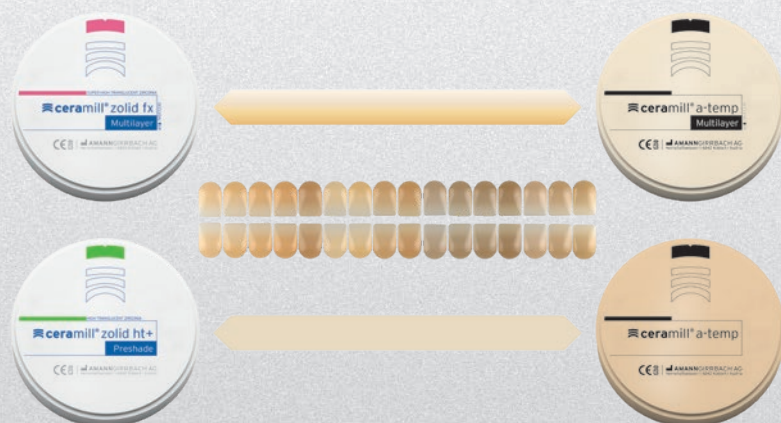
With the relaunch of the PMMA portfolio, the entire range of acrylic blanks has been restructured and made clearer. Hereby the wearing period of all medical devices is extended from six months to three years, which significantly increases product safety. At the same time, laboratories will in part benefit from lower costs. The innovations in the portfolio include materials for temporary crowns and bridges, for splints as well as for casting and pressing. The revitalized portfolio of acrylate blanks provides improved material properties and synchronizes the available shade spectrum of temporary materials with Zolid zirconia materials. In addition to longer wearing time and lower costs, there is yet another advantage: Amann Girrbach introduces standardized sizes and new intermediate sizes in the course of the relaunch. Thus, all blanks are available in heights of 14, 16 and 20 mm (A-Cast only 14 and 20 mm). As a result, the right blanks can be found for every size of restoration.

CERAMILL A-TEMP - NEW DEFINITION OF TEMPORARY RESTORATIONS

The new Ceramill A-Temp blanks are the perfect start for a successful treatment concept. Temporary crowns and bridges with a wearing time of up to three years can be fabricated easily with the PMMA-based blanks. However, it is the color match with the Zolid DNA zirconia system that makes the blanks unique. Both the monochrome as well as the multilayer blanks with shade gradient are perfectly matched to zirconia blanks and thus guarantee a consistent treatment concept. In addition, there are new blanks in block form which also allow milling smaller jobs if so required.



Perfect shade matching for a simple, reliable treatment concept from temporary to final restorations



- _ High-end aesthetics thanks to VITA A-D shades perfectly coordinated with Zolid DNA Generation
- _ Acrylic for long-term temporary restorations with a wearing time of up to three years
- _ The new block shape as a solution for smaller restorations and to lower costs

SPLINTS FOR LONG-TERM USE

The transparent PMMA blanks Ceramill A-Splint used for fabricating therapeutic splints can be easily and reproducibly milled. Available in three heights and as a Class 2a medical device, Ceramill A-Splint is suitable for long-term use of up to 3 years. The industrially pre-fabricated splint material provides high oral comfort and also impresses due to its neutral taste and odour. The high surface quality reduces discoloration and plaque accumulation to a minimum.

- _ The digital fabrication approach ensures process reliability and massive savings in time**
- _ Acrylic for long-term application with a wearing time of up to three years**
- _ Industrially manufactured, homogeneous splint material guarantees optimum intraoral comfort thanks to neutral taste and odour**



THE BEST OPTION FOR THE CASTING AND PRESSING TECHNIQUES

Ceramill A-Cast is a transparent acrylic for processing using CAD/CAM technology. Ceramill A-Cast is suitable for processing with casting and pressing techniques. Through residue-free combustion, Ceramill A-Cast ensures reproducible and efficient CAD/CAM fabrication of crowns and bridges, which are subsequently cast or pressed in the conventional way.

- _ Easy, reproducible CAD/CAM fabrication**
- _ Contamination-free castings due to burning out without residue**
- _ Industrially prefabricated material (without bubbles or porosity)**



A blue-tinted photograph of a Ceramil Zolid dental unit. The unit is a circular, metallic-looking device with a central opening. Inside the opening, there is a white, curved, shell-like structure with a grid of small, circular indentations. A label is attached to the top of the unit, containing technical specifications and a QR code. The background is dark and out of focus.

 **ceramil®** units

REF 760164
LOT 1611001
SN LOT-211
Ceramil Zolid
71 F7.16 V24.92 S19.95

TIME IS ON YOUR SIDE.

The Ceramill Matik marks the dawn of a new era in in-house fabrication. As an intelligent production solution, it clearly sets itself apart from conventional milling machines with blank changers. The fully integrated fabrication unit offers the laboratory the possibility to design its workflow independently and flexibly. It dramatically reduces the effort and complexity of material and tool management. Automatic maintenance, cleaning as well as changing the operating modes save time and help the technician to focus on the essentials - the dental work itself.



THE BENEFITS COMPARED TO THE INDUSTRY STANDARD - DRAMATIC.



TIME

- _ Automatic material and tool feed
- _ DNA performance processing: carving, thrilling, speed milling
- _ Automatic maintenance and cleaning
- _ Fully automatic tool and material management



MONEY

- _ Highest performance and maximum diversity of materials and indications at the lowest possible investment sum
- _ Cost savings due to controlled tool wear
- _ No additional investment and outsourced costs

CONVENIENCE

- _ Short set-up times due to high material capacity
- _ Manual cleaning not required
- _ Autonomous wet/dry change
- _ Flexible job management even during ongoing operation
- _ Autonomous multi-shift operation possible without requiring manual intervention

CERAMILL MATIK. 3 IN 1.

Ceramill Matik opens up a still unique segment within the digital dental world. As the first full service unit, it combines three machines in one. Apart from the actual processing station, the system also performs the functions of a fully automated stock management system as well as a machine cleaning device.

The support in loading, cleaning and in material management allows massive time savings in everyday laboratory routines. Furthermore, additional software tools help to make optimum use of the materials and the tools. Due to RFID*, it does not matter whether the resources to be used are placed inside or outside the system.

Yet another highlight is the newly designed 5X machining station. In development, for example, the main focus was on the maximum diversity of indications and materials. Ceramill Matik therefore offers innovative processing methods such as the patented carving mode (60 % time saving), thrilling (production of one-piece abutments) and speed milling of acrylic materials, as well as the maximum material range from hard and brittle block materials to zirconia and PMMA materials and metal materials.



- _ Maximum time savings in resource management through automatic management of tools and materials
- _ Highest possible convenience due to autonomous wet and dry change and automatic cleaning
- _ Full range of applications due to maximum indication and material portfolio
- _ Future-safe due to constant software development and expandable holder portfolios

*RFID - Identification by means of electromagnetic waves



10X DNA Control Unit - the control center
10-axis control for activating the mechanics

10" Touchscreen - the operating element
Integrated and intuitive order management

36x Blank tank - the material manager
RFID supported and chaotic* stock management in the blank tank

100k Super high frequency spindle - the power pack
Hybrid bearing, high-performance super high frequency spindle (100,000 rpm)

26x Tool stock - the tool manager
RFID supported, chaotic* tool management with exchangeable tool magazines

5X Processing station - the milling unit
High quality, dynamic and stable 5X system

Industrial zero-point clamping system - the clamping unit
Precise, stable and precisely repeatable zero-point clamping system

Interior HD camera - full view
Camera for remote monitoring of the production process

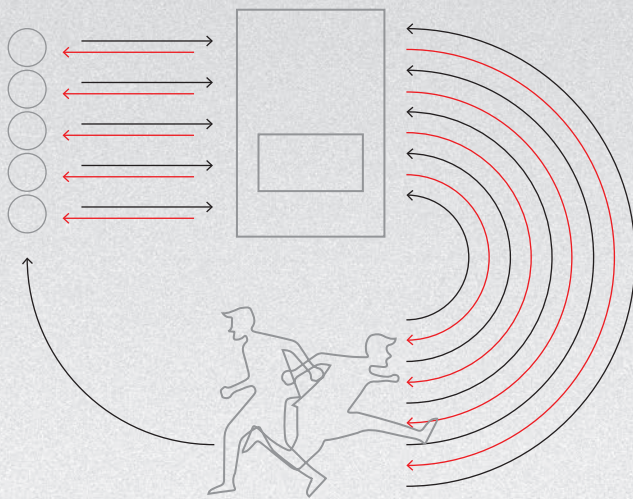
Ceramill Cleanstream - the automation specialist
Integrated self-cleaning system with chip conveyor, coolant circuit and extraction system

* chaotic = automatic identification and assignment of the tool or material

#PRIMETIME - WITH A FULL FOCUS ON THE ESSENTIALS.

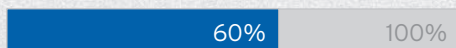
The Ceramill Matik supports everyday laboratory routines with the complex administration of tools, materials and jobs, so that the user can focus on value-creating activities. As a result, the dental technician regains his/her role as the pacesetter in the digital manufacturing process - not the machine.

LABOR WORKFLOW

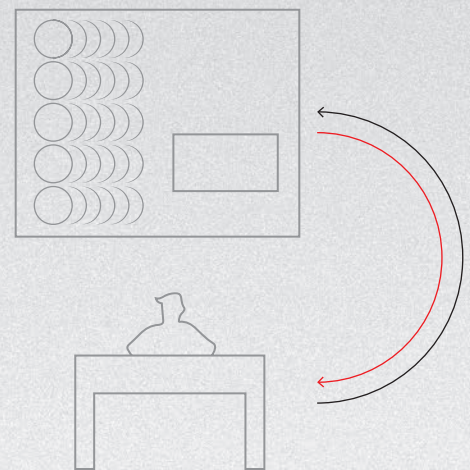


CONVENTIONAL CAD/CAM MACHINE

Productive working time:



Material changes, tool changes, cleaning processes and inventory management dictate the everyday routine of the dental technician.



CERAMILL MATIK

Productive working time:



Full focus on the value-creating activities.

ONE SOLUTION FOR ALL LABORATORY SIZES

SMALL LABORATORY

All necessary resources
in a single system

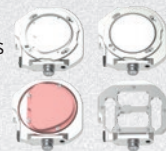


MEDIUM-SIZED LABORATORY

Most frequently used
resources in a single
system



New or additional materials
already registered at the
holders



LARGE LABORATORY

Most frequently used
resources in several
systems



New or additional materials
already registered at the
holders



TRANSPARENT RESOURCE MANAGEMENT IN THE LABORATORY

THE RIGHT SOLUTION FOR EVERYONE.

PRODUCTION UNITS



ceramill® mikro



- MILLING



ceramill® mikro ic



- MILLING
- GRINDING
- CARVING
- THRILLING



ceramill® motion 2



- MILLING
- GRINDING
- CARVING
- THRILLING

FULL SERVICE UNIT



ceramill® matik



- MILLING
- GRINDING
- CARVING
- THRILLING
- AUTOMATION
- STOCK MANAGEMENT

THE FULLY AUTOMATIC HIGH-PERFORMANCE SCANNER FOR OPEN ARTICULATOR SCANNING

The new Ceramill Map 600 high-performance scanner from the DNA generation offers intelligence, efficiency and maximum precision.

The scanner features an integrated universal carrier plate for all common types of articulator, which saves time-consuming plate changes. Due to Splitex integration, all the accessory components of the Map portfolio can be used.

The intelligent scan height control automatically moves the object to be scanned into the best possible scan area, thus offering the user increased process reliability, maximum convenience and protection against incorrect use. The new drive technology with an automatic Z-axis ensures ultra-precise and fast travel movement.

The highly sensitive industrial 3D sensor with Blue Light technology ensures outstanding depth of field and a scanning accuracy of 4µm.

The Ceramill Map 600 generates open STL or PLY data.



- _ Integrated, universal fixator for all common types of articulators ensures maximum flexibility
- _ Intelligent scan height control for optimum model alignment in the scan field offers the highest possible process reliability
- _ HD scan via 3D sensor with blue light technology and variable resolution guarantees optimal and reproducible results
- _ DNA Speed Scanning enables a full jaw scan with unrestrictedly usable results in only 18 seconds

CONVENIENT, FAST, PRECISE

Open housing design,
designed according to dental
requirements for easy operation and
highest scanning precision at the same
time

One-piece interior
for easy cleaning of the interior while
protecting sensitive components

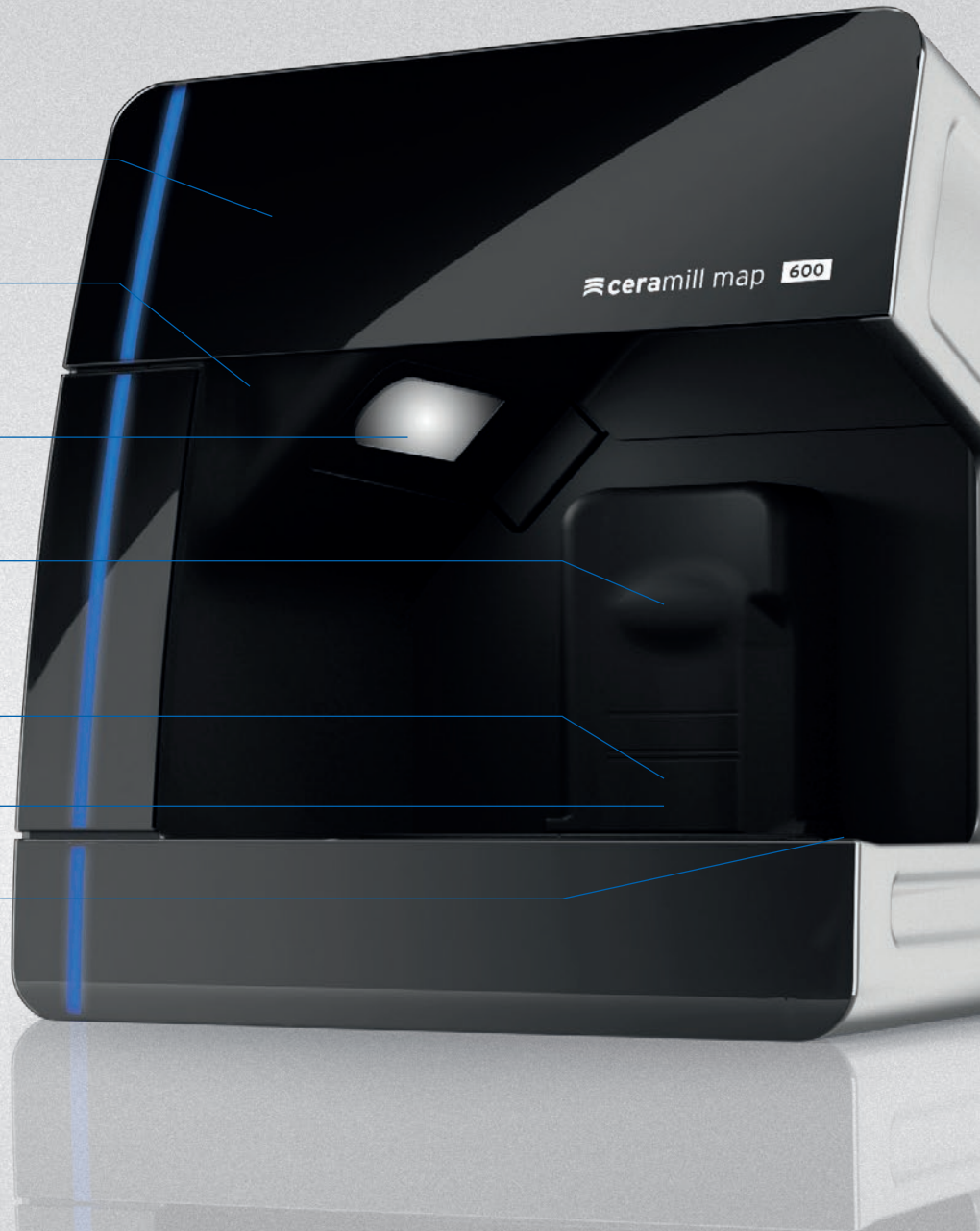
High-Definition 3D Sensor
with blue light technology, variable
resolution and integrated
stray light cover for best results

Automatic Z-axis
for easy positioning of the scan object in
the ideal measuring field range

**Integrated multifunctional articulator
fixator**
for best possible scanning quality with all
common articulators

Splitex plate
for Map accessory components

Quick access key for simple operation
directly on the device



ARTICULATOR SCAN

To utilize the advantages of the virtual articulator, a 1:1 conversion of the model situation is required from the real articulator into a data set. The Ceramill Map 600 enables scanning articulated models directly in the articulator without prior transfer to a transfer station. During the scanning process, the model is transferred from the actual articulator to the software while retaining the axis relation. A wide variety of articulator types can be positioned and precisely scanned without any additional accessories on the integrated multifunctional support plate. This offers the user maximum convenience and speed.

THE ROUTE TO THE PERFECT FIT



- _ Maximum precision through condyle-related scanning in the Artex workflow
- _ Convenient and time-saving handling without any accessory components
- _ Maximum precision due to ideally arranged scanning field

DIGITAL MOVEMENT RECORDING NOW 100% INTEGRATED FROM DENTIST TO LAB

The JMA Optic system from Zebris® with the latest optical sensor technology opens a new dimension in functional dentistry. Fully integrated into the Ceramill system it provides a wide range of possibilities, like model free movement registration or transfer of patient specific jaw movement data into the digital workflow.



Facebow 2.0

- _can be easily integrated into the daily workflow
- _direct digital connection to the lab

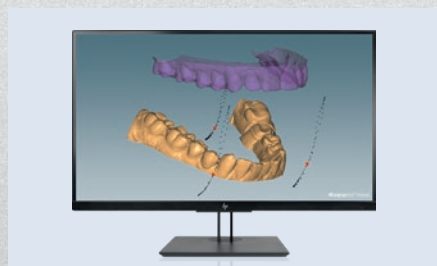
For every dental Indication

- _From single tooth restorations to individual functional dentures

Profitable

- _short return of invest*(Abrechnungsbeispiele im Anhang für NL Deutsch)
- _time saving through short processing and ease of use from the digital Facebow

Accessories



The software module Ceramill M-Pass offers the possibility to transfer complex jaw movements exactly into the Ceramill Mind.

With the jaw registration systems from Zebris all movements of the lower jaw can be recorded. The data output is imported into the Ceramill system without loss.



With the unique transfer stand it is possible to transfer the individual upper jaw position into every mechanical articulator.



The System Tray allows the safe storage of the measuring components and at the same time it can be used as an inductive charging station for the facebow. The system can be optionally connected with a USB interface or completely wireless via WLAN

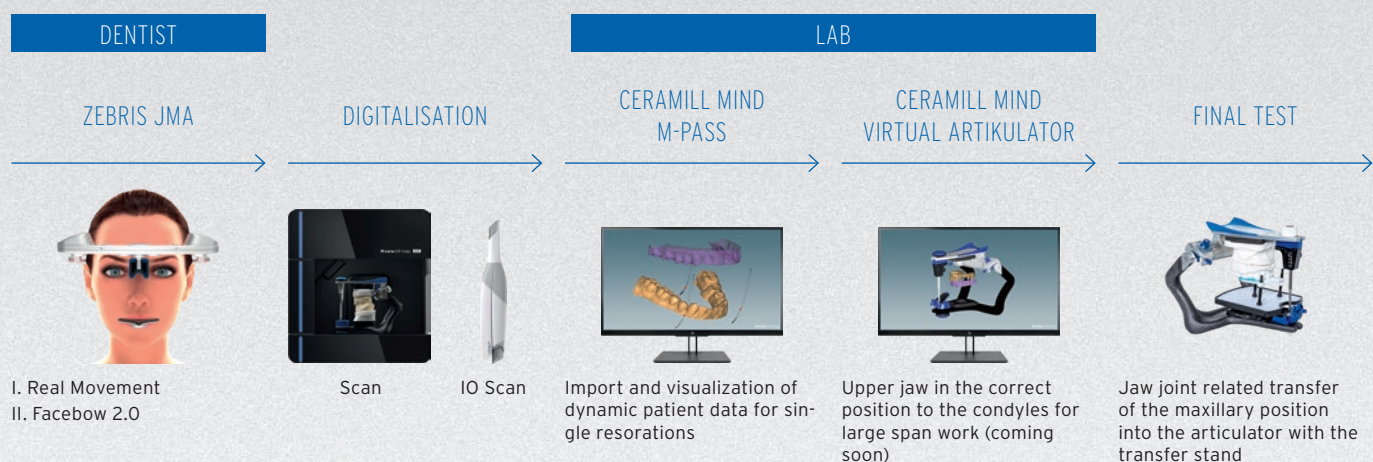
FUNCTIONAL DENTURES IN DIGITAL WORKFLOW

The JMA Optic System can be versatile be used in all digital cases. Doesn't matter if it is a single restoration - model free scanned by an interoral scanner - or as an digital adaption in the functional dentistry to ensure the best fit in complex cases.

Compared to conventional systems on the market, it offers much more than just dysfunction analysis and provides precisely fitting, functional dental restorations for almost every indication.

Thanks to the automatic data transfer to the Ceramill system, "Zebris for Ceramill" can be ideally integrated into the daily workflow and will reduce manual rework of the restoration in the lab.

DETECTION AND TRANSFER OF COMPLEX JAW MOVEMENTS FOR FUNCTIONAL DENTISTRY



- _ Exact recording of the jaw and mouth situation leads to individual, precisely fitting results and to a reduction in reworking in the lab.
- _ Fast transfer of the individual situation to the digital system thanks to full integration into the Ceramill system
- _ Perfect bite situation thanks to a coordinated system from the recording to trying-in of the restoration

"AUTHORIZED FOR E.MAX" STANDS FOR OPTIMALLY COORDINATED PROCESSES FOR HIGH-PRECISION RESTORATIONS

COOPERATION BETWEEN AMANN GIRRBACH AND IVOCAR VIVADENT OFFERS USERS NEW POSSIBILITIES

Amann Girrbach and Ivoclar Vivadent are pooling their expertise to enable users to use an even wider range of materials. The two companies have now jointly developed validated workflows for selected materials from Ivoclar Vivadent, which can now be processed perfectly with the Ceramill system. Thus, two companies have joined forces, whose common values form the best basis for a successful cooperation. Ivoclar Vivadent and Amann Girrbach both stand for optimal treatment results through comprehensively validated digital application processes paired with world-leading dental products.

As a visible sign of this cooperation, Amann Girrbach will offer specially developed blank holders for the Ivoclar digital material holders.



Owing to the cooperation between Amann Girrbach and Ivoclar Vivadent, all users of the Ceramill system can now also process IPS e.max CAD in a coordinated workflow with the next update (Version 3.12). In addition, validated processing of the burn-out "ProArt CAD Wax yellow" blanks in the Ceramill system for the fabrication of IPS e.max press restorations will also be possible.

MILLING - CARVING - THRILLING - MORE FLEXIBILITY AND PRODUCTIVITY WITH "BLOCK PROCESSING"

The Ceramill Motion 2 DNA generation is a 5-axis hybrid milling machine with a maximum, unrivalled range of materials and indications.

Furthermore, with the development of the DNA Generation and the launch of the Ceramill Micro IC, new innovative strategies like the "Carving-" or "Thrilling Mode" adapted the already implemented milling/ grinding strategies and the rotary milling of titanium - preforms.







To enlarge the productivity in the lab, the flexibility in multiple shade production overnight and optimal inventory management of the materials - the focus of the development was to ensure also the best block processing in the Ceramill Mikro IC and Ceramill Motion 2.

Together with the new AG block materials, innovative strategies and the future proved changeable holder concept of the Ceramill Micro IC and Ceramill Motion 2, an upgrade of an innovative machine concept to a more flexible and productive solution, is easily possible.

The changeable Multiblock Holder concept

- _Enlarges the productivity in the lab (overnight milling)
- _Allows multishade production in one single process step
- _Optimizes your inventory management

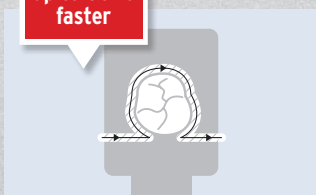


Mode	Ceramill Motion 2		Ceramill Mikro IC	Block Size	Materials
					
CARVING	12x 	3x 	3x 	up to B32	_Glass-ceramics _Lithium Disilicate _Hybrids
MILLING	9x 	3x* 	3x 	up to B40/B55**	_Zirconia _TEMP _PMMA

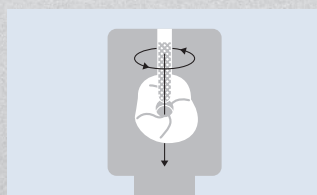
*C20, B40 and B55 only possible on the middle slot

**B55 only possible with Basic Holder on Ceramill Mikro IC and Triple Adapter on Ceramill Motion 2

PATENTED
up to 60%
faster



Ceramill DNA Performance - Up to 60% time savings by "Carving" glass / hybrid ceramic blocks



Ceramill DNA Performance - Production of single/multi-part abutments with the "Thrilling Mode"



Spindle Lid 3.0 - Doubles the grinder lifetime due to 360° flush on the tool

SYSTEM COOPERATION BETWEEN AMANN GIRRBACH AND 3SHAPE

EXCELLENT MILLING RESULTS WITHOUT REWORKING DUE TO OPTIMIZED DESIGN PARAMETERS

From now on, dental laboratories can use Amann Girrbach milling machines and 3Shape CAD software to produce restorations with excellent fit and occlusion as well as optimal contact points for the most common materials and indications. Currently, the parameters for inlay/onlay/veneer, crowns, bridges, abutments and therapeutic splints have been developed and integrated, more will follow.

This is made possible by an optimized material database (*.dme) that is adapted to both systems. The file can be downloaded and installed by Amann Girrbach customers from the C3 - Customer Center or directly from 3Shape.



THE HIGH-SPEED 3D PRINTER FOR THE CERAMILL WORKFLOW - 100 % INTEGRATED

The combination of the Ceramill workflow with the NextDent 5100 3D printer and the associated 3D Sprint software solution offers the user a plug & play system solution with comprehensive software access. The large selection of compatible NextDent 3D printing materials stands for a maximum range of applications in everyday laboratory work, which is further simplified by clever material management and matching post-processing options.

- _ Up to 3x faster printing due to Figure 4™ technology for high productivity and flexibility**
- _ Excellent printing results in highest precision due to coordinated workflows, machines, materials and accessories**
- _ Rapid amortization due to maximum material and indication spectrum as well as low investment and fixed costs**



METICULOUS MATERIAL VALIDATION FOR EXCELLENT RESULTS

During the course of system coordination, all process components such as 3D printer, accessories and post-processing were carefully coordinated with each other. Special attention was paid to the validation of the materials.

The multitude of printable materials and the associated broad spectrum of indications promises maximum flexibility and cost-effectiveness. Predefined and integrated process parameters ensure simple and safe handling as well as assured quality of the restorations. The entire production and post-processing procedure is designed intuitively and reduced to just a few steps in everyday laboratory routine - for maximum efficiency with minimum expenditure of time.

- _ Excellent results due to validation of the material and indication spectrum within the overall system**
- _ Simple and safe handling in the production process due to predefined parameters**
- _ Intelligent material management system with QR code assignment secures the workflow and provides all the information on material status, material quantities and construction job assignment at a glance**



UNIQUE. FUTURE-PROOF. VALIDATED.

The combination of the familiar Ceramill workflow, the high-speed Figure 4™ technology of the NextDent 5100 for Ceramill, a validated material portfolio and proven post-processing methods provides a simple, coordinated and safe process. This unique workflow enables the user to achieve long-term cost and time savings in resin-based indications. Furthermore, Figure 4™ technology will in future map additional indications and workflows in the NextDent 5100 for Ceramill system.





Comprehensive material portfolio for maximum flexibility and economical use of the 3D printer.



Defined ultrasonic cleaning times and processing recommendations for optimum material quality.



Light curing device adapted to the material with defined curing times for precise, reproducible and standard-compliant results.



Compelling results due to Figure 4™ technology with state of the art precision.



Ceramill Advanced Prosthetics Solutions

CERAMILL ADVANCED PROSTHETICS SOLUTIONS - RELOADED

Since the beginning, Amann Girrbach has been a pioneer of the digital in-house movement and with the “Ceramill Advanced Prosthetics Program” AG rockets digital denture workflows to the next level.

With the introduction of the Ceramill Advanced Prosthetics Program it was never easier to produce fixed and removable digital dentures with outstanding precision, top-notch materials - in the reliable quality Amann Girrbach as digital lab innovator is known for decades.

In 2019 Amann Girrbach will extend the capabilities of each super-indication with exciting new options. With “REAX hybrid” Ceramill users will be able to manufacture implant-borne full arch restorations on substructures with an unparalleled variety of Cad/Cam materials. The Ceramill Full Denture System will be expanded with the possibility to 3D print digital dentures and the production of single arch dentures. Last not least RPDs in the Ceramill system will be produced 100% digital with Ultaire AKP™ by Solvay Dental 360™.

FIXED DENTURES

Digital workflow for fixed dentures




AMANNGIRRBACH

Juvora

 **straumann**
simply doing more

 **MEDENTIKA®**
A Straumann Group Brand

 **BEGO**

 **mis**

 **NEODENT®**

 **Dentsply Sirona**

FULL DENTURES

Digital workflow for full dentures




AMANNGIRRBACH

VITA
VITA VIONIC®

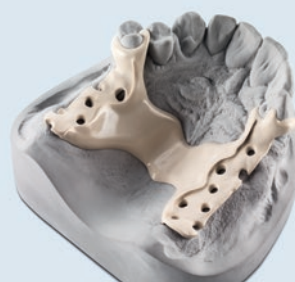
 **MERZ**
DENTAL

 **Baltic Denture System**

 **KULZER**
MITSUBISHI CHEMICALS GROUP

PARTIAL DENTURES

Digital workflow for partial dentures




AMANNGIRRBACH

SOLVAY
DENTAL 360™

REAX FULL&HYBRID - ALL OPTIONS FOR RELIABLE ALL-ON-X RESTORATIONS

Safe, fast, digital and playfully easy to screw-retained bridge with gingiva on implants.

Full mouth, implant-borne restorations ("All-On-X") with gingiva represent the top level of dental patient cases. Amann Girrbach offers a fully guided and integrated digital workflow to produce this highly profitable restoration with a high variety of different materials possible in consistently highest quality. The combination of efficient software modules and innovative materials within this Ceramill workflow is particularly unique. With the help of the CAD software modules Ceramill Mindforms, including an automatic cutback and stump/thimble library and Ceramill M-Gin all options are available to match the needs of the patient and the dentist.

REAX FULL CONTOUR



The **REAX Full Contour** workflow enables Ceramill users to produce full zirconia, long-span screw retained cases with gingiva utilizing the ground breaking, high strength (1100 MPa) and yet highly esthetical zirconia Zolid HT+. The automatic cutback option (Ceramill Mindforms cutback library) and 5-Axis Ultra High Definition milling add to a so far unreachable esthetic appearance with a minimum of manual work.

REAX HYBRID

COMING SOON



With the introduction of the **REAX Hybrid** workflow Amann Girrbach offers the full spectrum of compound screw-retained restorations. With an unmatched variety of possible materials and leading industry partners **REAX Hybrid** represents the next level of advanced CAD/CAM in the Ceramill System.

- **Easy, fast and reliable extension of your lab business due to fully digital integration of the complete workflows into the Ceramill system**
- **High income restorations as "REAX - Reliable All-On-X" cases (implantborne, full arch cases) can be produced in a fast to learn, guided workflow to achieve consistent results with highest quality**
- **Cooperation with specialized, industry leading companies to support your daily work with the best products and latest technologies available for your leading-edge success**

REAX HYBRID – ALL OPTIONS FOR RELIABLE ALL-ON-X RESTORATIONS

With **REAX Hybrid** the possibility was created within the integrated Ceramill workflow to provide new design and production variants. Based on implant prosthetic solutions of leading industry partners the substructure of the compound restoration can be produced from a huge variety of materials. Beside zirconia frameworks with Ceramill Zolid HT + and metal based substructures with Ceramill Sintron it now also possible to utilize the specifically developed, clinically proven high-performance polymer Ceramill PEEK by Juvora.

Finally, with crowns made from Zolid FX ML, Vita Enamic or IPS e.max CAD it is possible to match all esthetic and individual requirements while maintaining easy and fast reparability. Therapeutic bite lifts complete the wide field of possibilities of **REAX Hybrid**.

LEVEL 1 – TI BASE



straumann
simply doing more

MEDENTIKA®
A Straumann Group Brand

BEGO

MIS®

NEODENT®

Dentsply Sirona

All options for implant prosthetics through broad cooperations with industry leading partners

LEVEL 2 – SUBSTRUCTURE



OPTION 1 – ZIRCONIA SUBSTRUCTURE



OPTION 2 – CoCr SUBSTRUCTURE



OPTION 3 – PEEK SUBSTRUCTURE



All options through unmatched variety of validated materials for a long-life, stable substructure

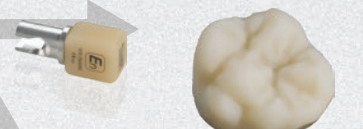
LEVEL 3 – CROWNS



OPTION 1 – ZIRCONIA CROWNS



OPTION 2 – VITA ENAMIC



OPTION 3 – IPS E.MAX CAD

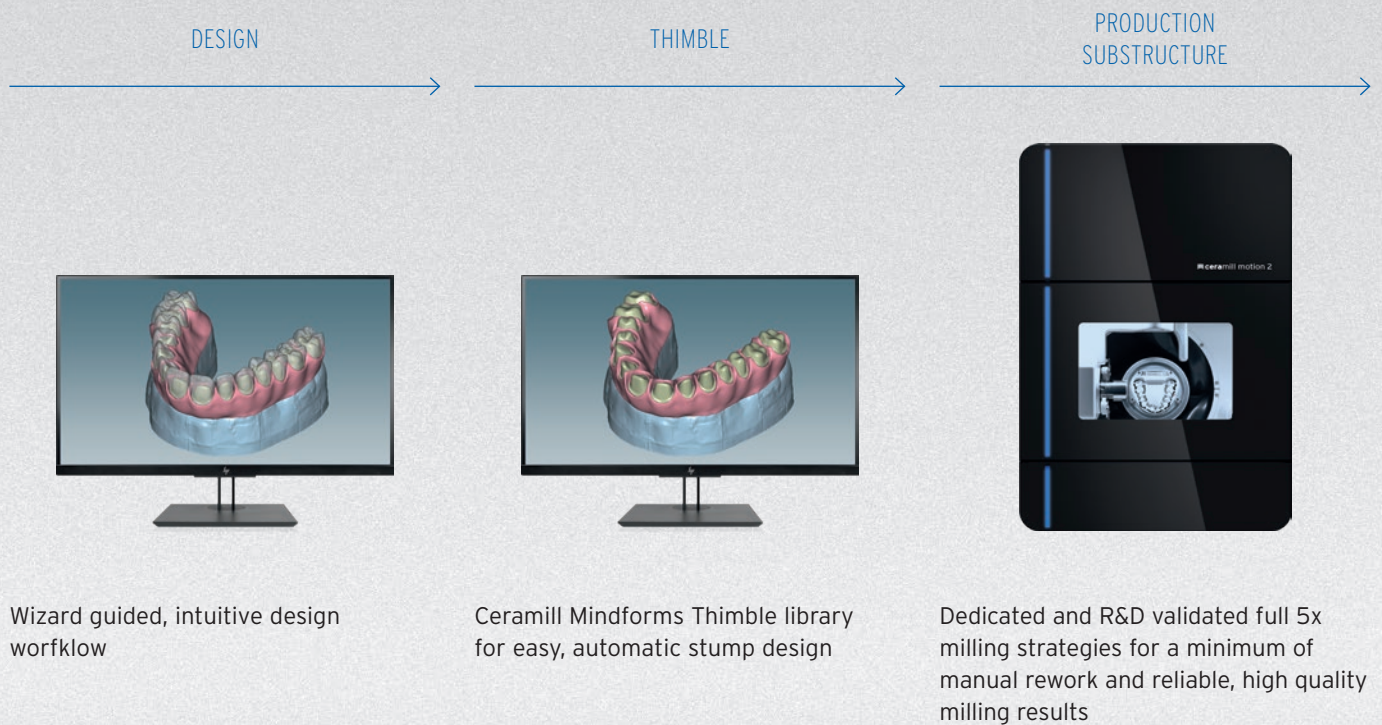


All options for highest esthetics with leading material solutions from Amann Girrbach and leading cooperation partners

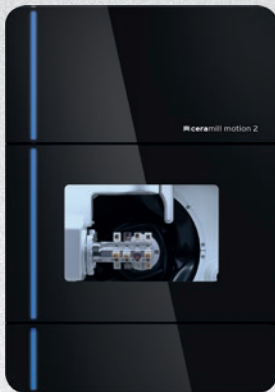
- _ Coordinated processes and materials provide the highest level of safety and efficiency
- _ No limits to the individual esthetic, therapeutic and efficiency requirements due to unmatched material combinations
- _ Highest efficiency through easy workflows and instant reparability
- _ Dedicated design parameters and milling strategies ensure best milling results for a minimum of manual rework

REAX HYBRID - INTUITIVE WORKFLOW FOR RELIABLE IMPLANT-BORNE SUPRASTRUCTURES

Based on the Ceramill M-Gin software module and Ceramill Mindforms automatic thimble library Amann Girrbach has integrated the digital workflow for **REAX Hybrid** in the Ceramill CAD/CAM System, making it the easiest and intuitive way to fully digitally produce complex, implant-borne restorations. It was never easier to upgrade your lab to highly profitable, high quality cases to excite your customers and patients.



PRODUCTION CROWNS



Optimized Ultra-HD milling and grinding strategies for perfect esthetics in no time

ESTHETIC MANAGEMENT



Special tools and educational support for perfect final restorations

ASSEMBLY



Validated bonding protocols for easy, safe and reliable assembly of the compound restoration

- _ Intuitive user guidance throughout the design process
- _ Effortless design of stumps with Ceramill Mindforms library based on full contour final result
- _ Special milling strategies reduce manual reworking to a minimum
- _ Coordinated processes and materials create a high degree of reliability and efficiency



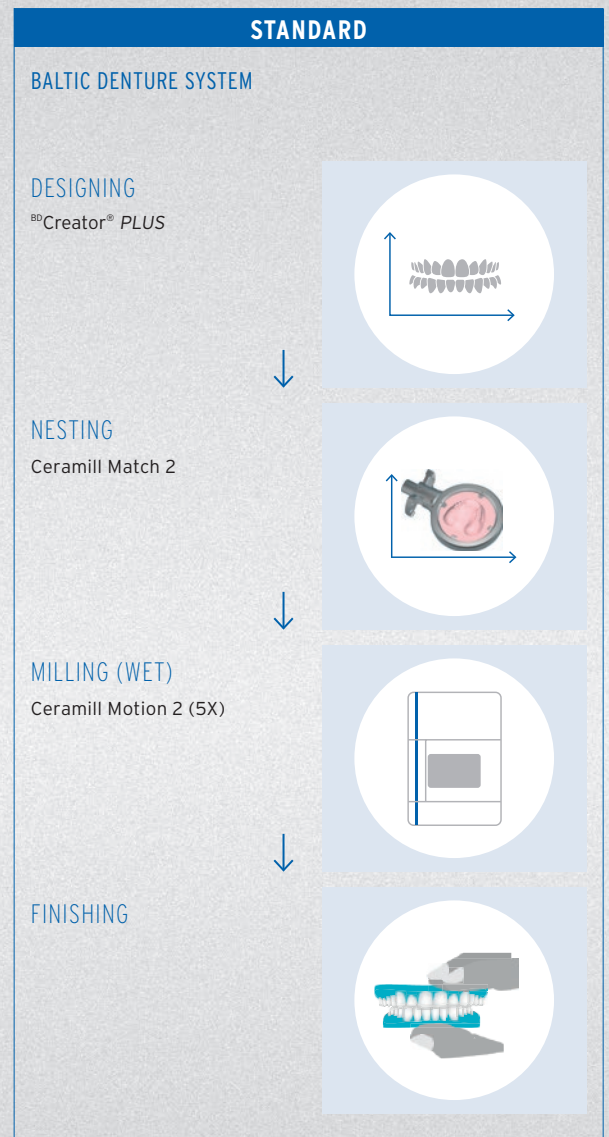
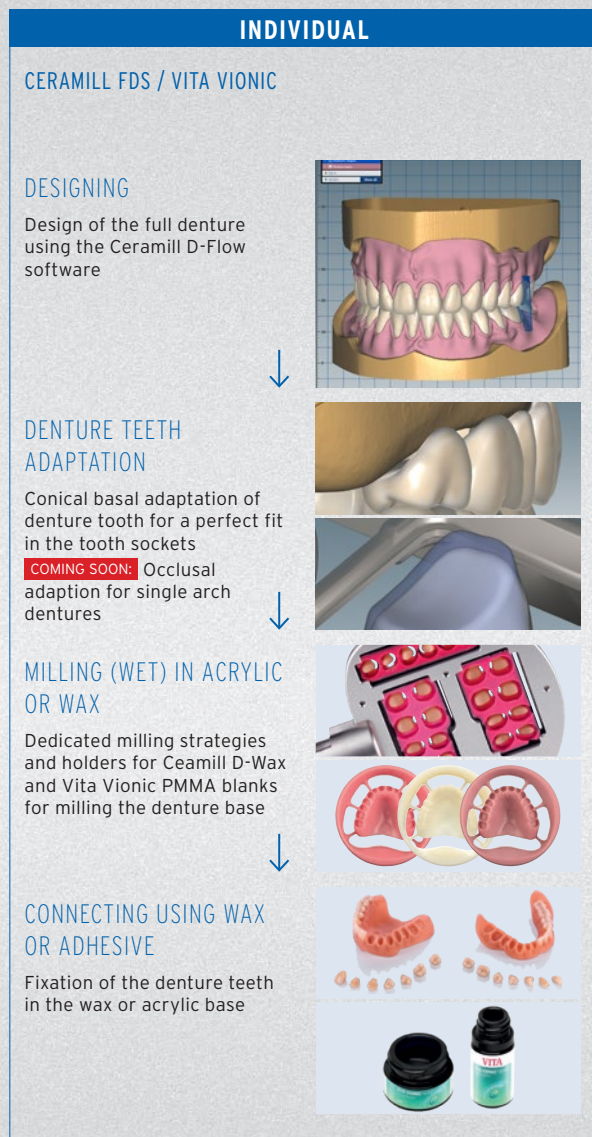
Zolid HT+
Rainer Wöran, Australia





CERAMILL FDS - DIGITAL FULL DENTURES

The Amann Girrback Ceramill system offers the broadest range of digital denture production capabilities with integrated workflows and in cooperation with industry leading partners. Besides the very successful Ceramill FDS workflow for highest esthetic and quality individual dentures, the Ceramill System also allows its users to efficiently produce digital dentures with the Merz Baltic Denture System. With the next upcoming software updates Amann Girrback will extend the Ceramill full denture system with single arch dentures and 3D printing production of bases.



COMING SOON

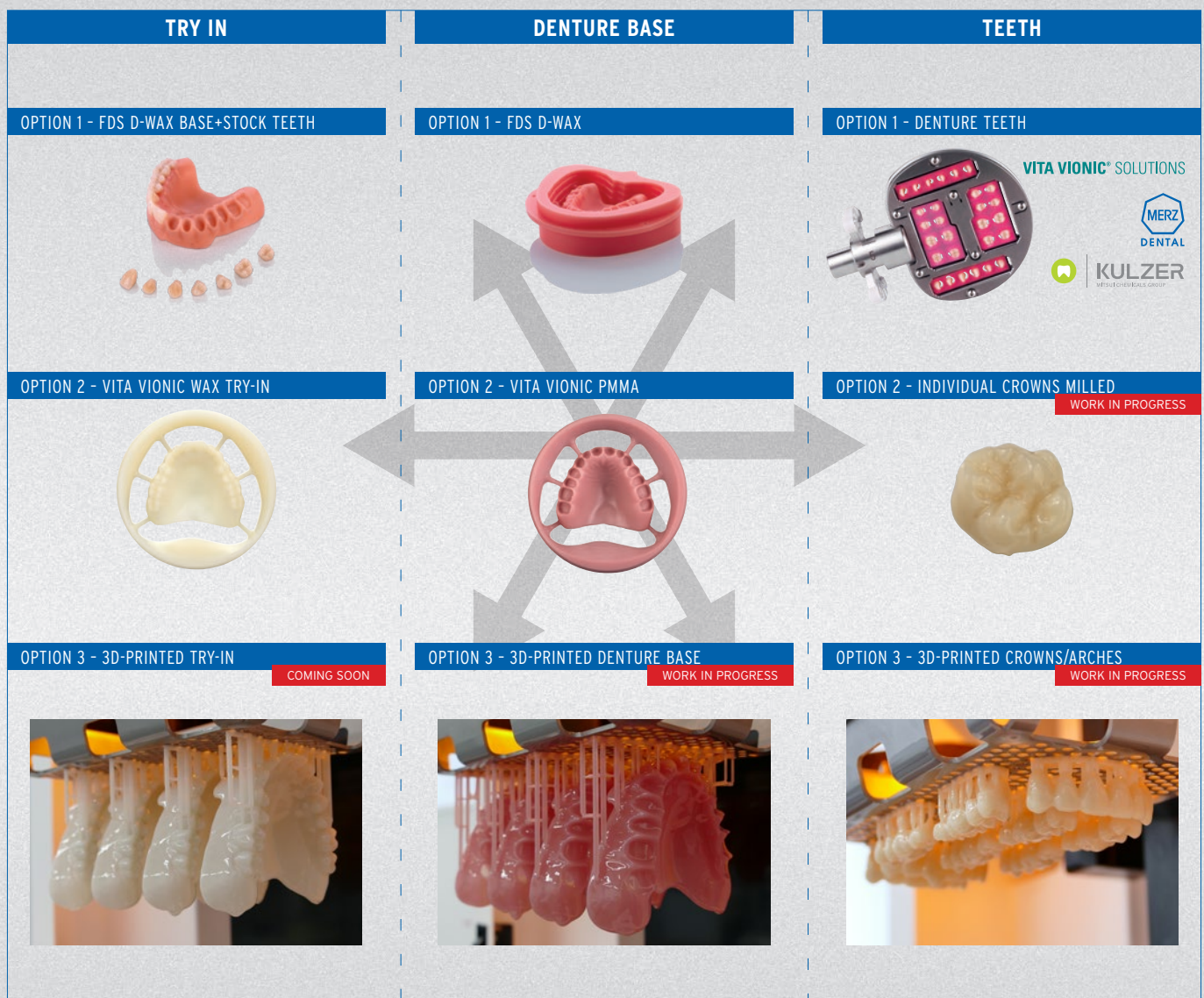
- _3D-Printing of Try-Ins and denture bases
- _Fabrication of single arch dentures
- _Milling of individual teeth (PMMA, Composites)

NEW

- _BDS ECO Blanks for max efficiency

CERAMILL FULL DENTURE SYSTEM 360° - DIGITAL DENTURES, MISSION COMPLETED

Mission completed - since more than 5 years Amann Girrbach successfully developed and marketed innovations for digital dentures. With the addition of 3D printing capabilities, the Ceramill Full Denture System offers the broadest range of digital denture fabrication options in the industry - from highest quality, highly individual milled dentures to cost efficient 3d printed dentures. All supported with integrated, easy-to-implement workflows, validated materials and processing tools.



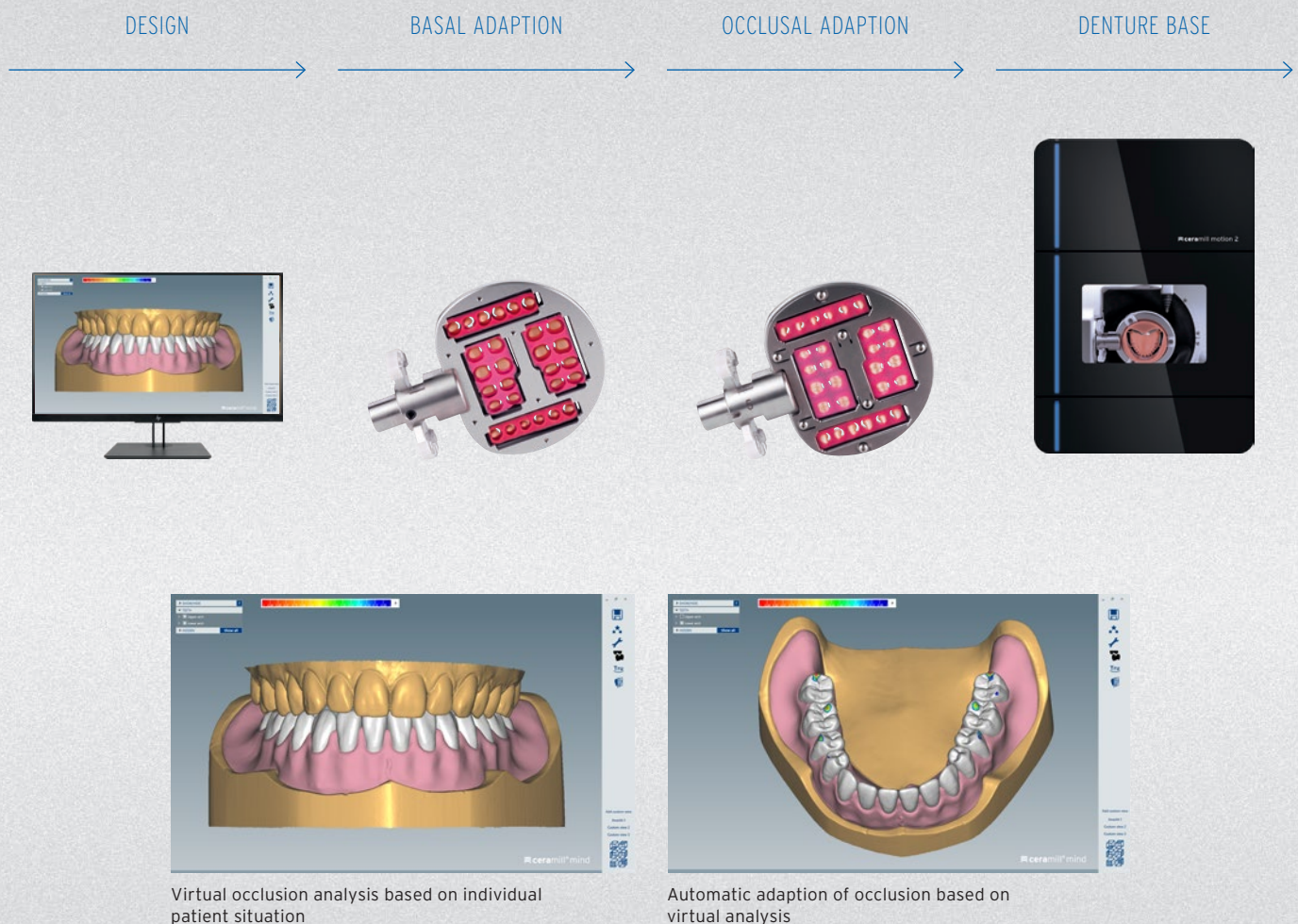
All Options for Try-Ins from high quality milled wax to cost efficient 3d printed

All options for denture bases from manual finishing with wax base to direct milling in PMMA and cost efficient 3D printing

All options for the denture teeth ranging from gold standard stock teeth to individual crowns milled or 3D printed

CERAMILL FULL DENTURE SYSTEM - WORKFLOW SINGLE ARCHES

The next evolution of the Ceramill FDS digital denture workflow is the production of complete dentures for single jaws with residual dentition in the opposing jaw. Utilizing the Ceramill Artex CR virtual articulator and seamless digital workflows, with the next updates stock denture teeth can be adapted to the opposing antagonists for high quality single arch dentures. In a second step it will be possible to design and mill individual teeth based on integrated tooth libraries and flexibly adapt them to the situation in the opposing jaw outside of the given setup concept.



- _ Easy extension of digital denture offerings utilizing existing Ceramill FDS workflow
- _ High flexibility due to choice of using stock teeth and milling individual teeth
- _ Best fit and highest patient satisfaction through perfect occlusion utilizing virtual articulation

CERAMILL FULL DENTURE SYSTEM – 3D-PRINTING

3D printing strives to be the holy grail for cost- and time-efficient digital denture production. With the seamless integration of the 3D Systems Nextdent 5100 3D printer in the Ceramill Workflow Amann Girrbach is now able to also offer 3D printed digital dentures as part of the Ceramill Full denture system. Combining all benefits of the established FDS workflow with the super-fast Figure4™-Technology from 3D Systems, Ceramill users can produce up to 4 denture bases in one hour in highest digital precision. Nextdent and 3D systems are furthermore providing a full range of digital denture materials, which are developed with the outstanding experience of more than 10 years of 3D printing for optimal material properties, especially lowest possible shrinkage and water absorption.

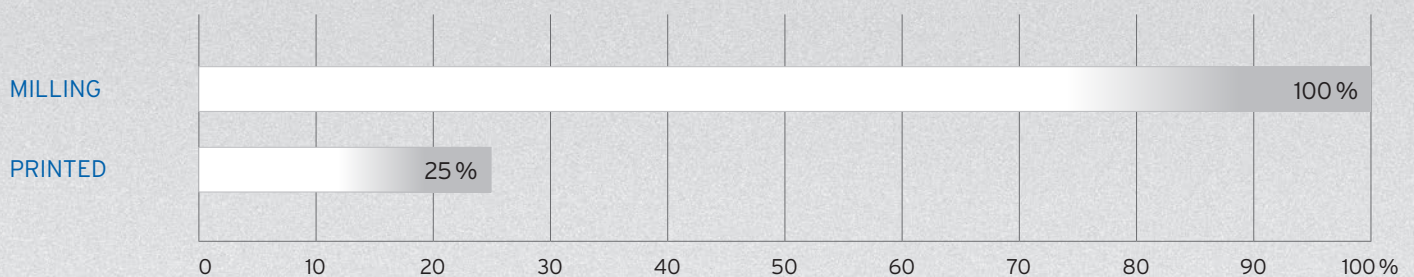


- _ Fully integrated, seamless workflow for 3d printed digital dentures for cost- and time-efficient production without any compromise
- _ Validated 3d printing materials and processes to ensure precision and reliability of the final result
- _ Broad options of 3D printing and milling, materials and processes offer highest flexibility

CERAMILL FULL DENTURE SYSTEM - 3D-PRINTING INCREASES COST AND TIME EFFICIENCY FOR DIGITAL DENTURES

3D Printing is significantly faster and coming with lower material cost than milling when it comes to complex restoration from resin. Ceramill users now have the choice between "good enough" quality from 3d printing in unmatched time and highest quality and precision from a milled denture base.

PRODUCTION TIME DENTURE BASES



MATERIAL COSTS DENTURE BASES



BENEFITS MILLED DENTURE BASES

- _ Perfect fit through high precision milling
- _ Gold standard material properties for base and teeth
- _ World-Class esthetics and highest quality
- _ Fully digital, minimum of manual work

BENEFITS 3D-PRINTED DENTURE BASES

- _ Drastically reduced production time
- _ Low material costs
- _ High precision through integrated digital CAD/CAM Workflow

BDS ^{BD}LOAD[®] ECO BLANKS FOR MAXIMUM EFFICIENCY

In addition to the existing ^{BD}Load[®] blanks, Amann Girrbach now offers 48 ^{BD}Load[®] ECO blanks as part of the BDS portfolio. ^{BD}Load[®] ECO blanks offer high quality denture stock teeth at an unparalleled price level.

Thus ^{BD}Load[®] ECO blanks are particularly suitable as an interim solutions, e.g. for implant restorations.

Available ^{BD}Load[®] ECO blanks and tooth shades in A2, B2, BL1.

_monochrome anterior teeth (Polystar[®] Selection EDITION)

_monochrome posterior teeth (DeltaForm[®])

Blanks with the tooth set up to the 6th available.

Complementary information:
www.baltic-denture-system.de



REMOVABLE PARTIAL DENTURES - METAL FREE AND 100% DIGITAL

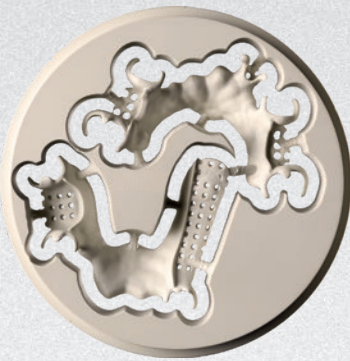
Full INTEGRATION. The material revolution for partial dentures - consistently digital and perfectly integrated into the Ceramill workflow - including online training for your treatment success right from the start.

Amann Girrbach is the first and only validated dental system partner of Solvay Dental 360™ to optimize the manufacturing process of metal-free removable partial dentures. This provides Ceramill users with the exclusive opportunity to create model casting constructions consistently in the digital workflow, and in record time.

This revolution is made possible by two elements. One is the Solvay Dental 360™ Ultaire™ AKP millable high-performance polymer, which was specially designed as a metal replacement for partial dentures. On the other hand, through the software module Ceramill M-Part. The module incorporates specially developed CAD strategies that are essential for prosthetic success as the new material, unlike metal, has unique design requirements. Specially designed CAM milling strategies guarantee the required quality and precision of the surfaces.

Ultaire® AKP

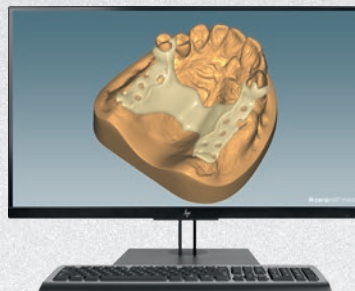
The new high-performance polymer for metal-free partial dentures.



- _ Natural esthetics
- _ Comfortable, biocompatible, 60 % lighter than metal, tasteless, non-irritating

ceramill® m-part

The software module for customized partial denture frameworks.



- _ Large time savings through automatic digital blocking out and perfectly integrated Solvay partial denture profiles and parameters
- _ Reliability and efficiency through consistent digital workflow as well as special online trainings and training materials

ceramill® motion 2

The 5-axis hybrid milling unit for all complex indications.



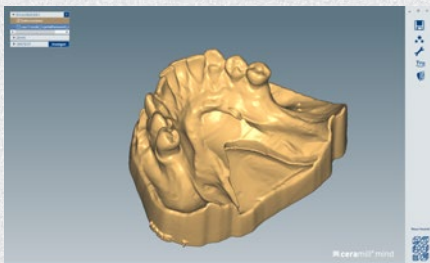
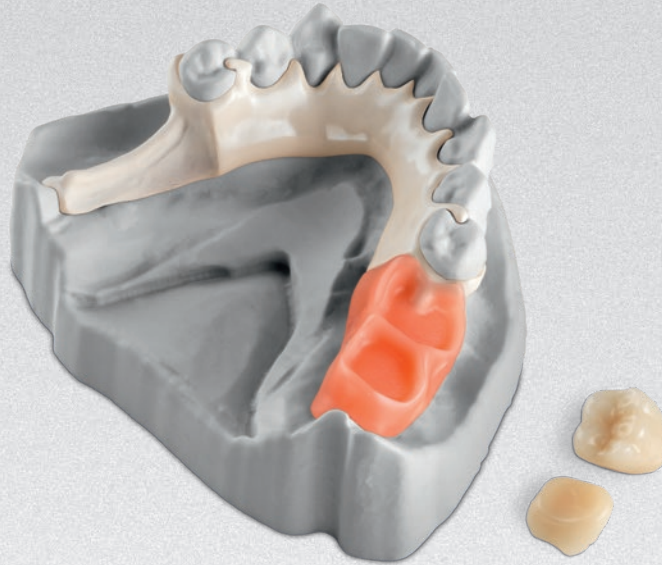
- _ High economic efficiency due to subtractive in-house production
- _ Matched special tools and milling strategies for the finest surface quality and minimal manual reworking of partial denture frameworks

- _ **High time savings through subtractive in-house production and minimal manual reworking**
- _ **Profitability lucrative production of removable partial dentures at good prices and with little effort**
- _ **Process reliability & efficiency through fully integrated process and coordinated workflow**

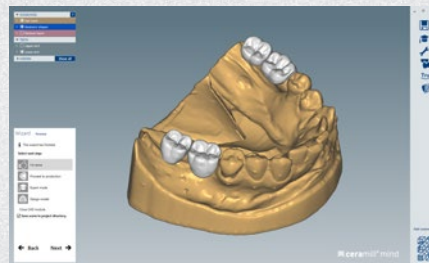


REMOVABLE PARTIAL DENTURES - 100% DIGITAL

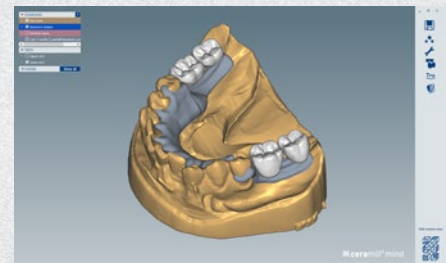
Tired of casting? Fed up with the cumbersome polishing of metal frameworks? Going metal-free for RPDs (removable partial dentures) means going for Ultraire™ AKP by Solvay Dental 360™. Amann Girrbach and Solvay Dental 360™ teamed up to bring the perfect material for digital RPDs into the global No.1 CAD/CAM system as seamless workflow, accompanied with a comprehensive training program. But we do not stop there. With the upcoming updates Ceramill users will be able to utilize the Ceramill FDS capabilities to produce 100 % digital RPDs - no manual production, only assembly. Say goodbye to the smell of acrylics in your labs shadiest corner, say hello to digital RPDs with Ceramill!



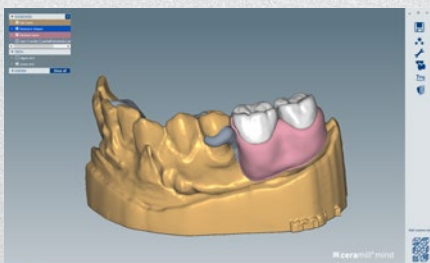
Digital model of patient situation



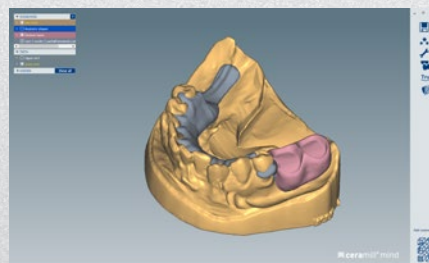
Retrograde planning of final restoration



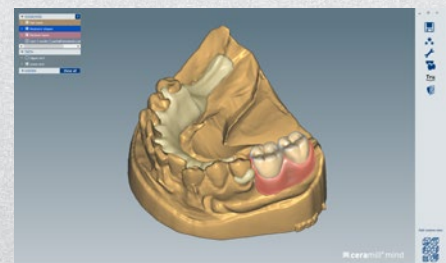
Design of RPD frame based on tooth set-up



Automatic generation of gingiva parts



Finalization of gingiva parts

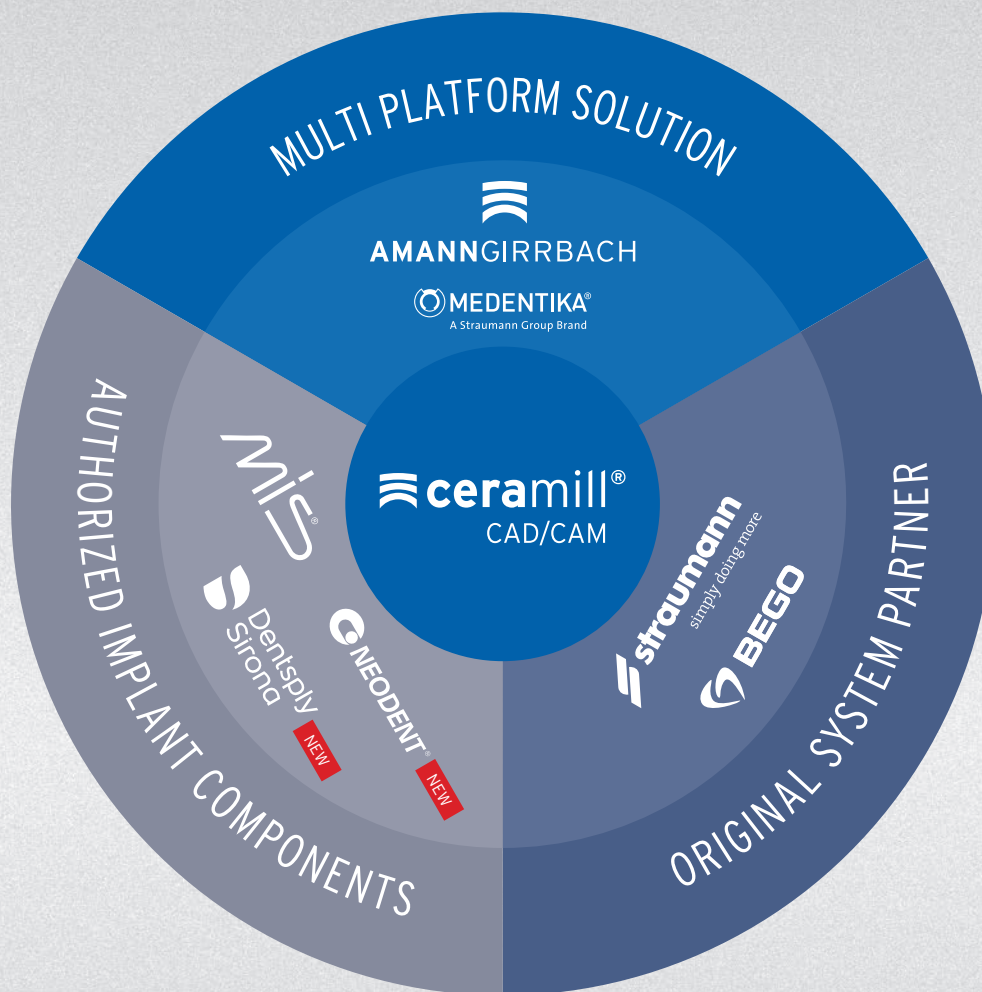


Visualization via Ceramill Trusmile of final restoration

- _ 100 % digital workflow for metal-free RPD production ensures highest patient comfort and restoration quality with a minimum of manual work**
- _ Full flexibility through different production options like adapting denture teeth or milling individual crowns**
- _ Future-proof digital workflow, extensive training and support offers ensure easy, successful transition from analog manual production to CAD/CAM manufacturing of digital RPDs**








IMPLANT PROSTHETICS FOR CERAMILL CAD/CAM

An extremely wide product portfolio is available for the fabrication of implant-supported restorations with the system components of our Ceramill implant prosthetic range. We are individually adapting our range perfectly coordinated to your requirements or options. In accordance with the holistic philosophy of Amann Girrbach, all AG implant prosthetic components have been seamlessly integrated into the Ceramill CAD/CAM system architecture. You benefit from a high degree of process reliability, maximum precision and an efficient laboratory routine. Our range is continually being extended to include new implant lines to ensure maximum variety.



IMPLANT PROSTHETICS FOR CERAMILL CAD/CAM

EXTENSION OF IMPLANT PROSTHETIC INTEGRATION LINES FOR 2017

Multi Platform Solution for Ceramill CAD/CAM	Original System Partner for Ceramill CAD/CAM	Authorized Implant Components for Ceramill CAD/CAM
All from one supplier and can be ordered from Amann Girrbach	All from one supplier and can be ordered from Amann Girrbach	CAD data can be obtained from Amman Girrbach and parts from the implant manufacturers
 	 	  NEW  NEW
We provide innovative solutions for a variety of implant restorations with the Multi Platform Solution for Ceramill CAD/CAM Extensive implant prosthetic components for all conventional implant systems and treatment options are being continually extended.	Prosthetic components from ORIGINAL implant companies Premium implant manufacturer quality now in-house using Ceramill CAD/CAM	Prosthetic components from ORIGINAL implant companies Individual integration of implant libraries in the open Ceramill system
+ Excellent precision in combination with excellent price-performance ratio	+ Original implant connection geometries > including maximum value creation and precision	+ Continually increasing selection of available implant prosthetic components of regional and nation-wide implant manufacturers
+ Innovative, individual implant prosthetic solutions - the variety is being continually extended	+ A perfectly matching system: coordinated design in combination with highly precise fabrication in the Ceramill CAD/CAM system	+ Original implant connection geometries > including maximum value creation and precision
+ Design and results perfectly coordinated to the Ceramill system	+ Fully integrated prosthetic components in the Ceramill system	+ Manufacturer's guarantee
+ Perfect and fully integrated solutions for the Ceramill system	+ Manufacturer's guarantee	



 **ceramill® mind**

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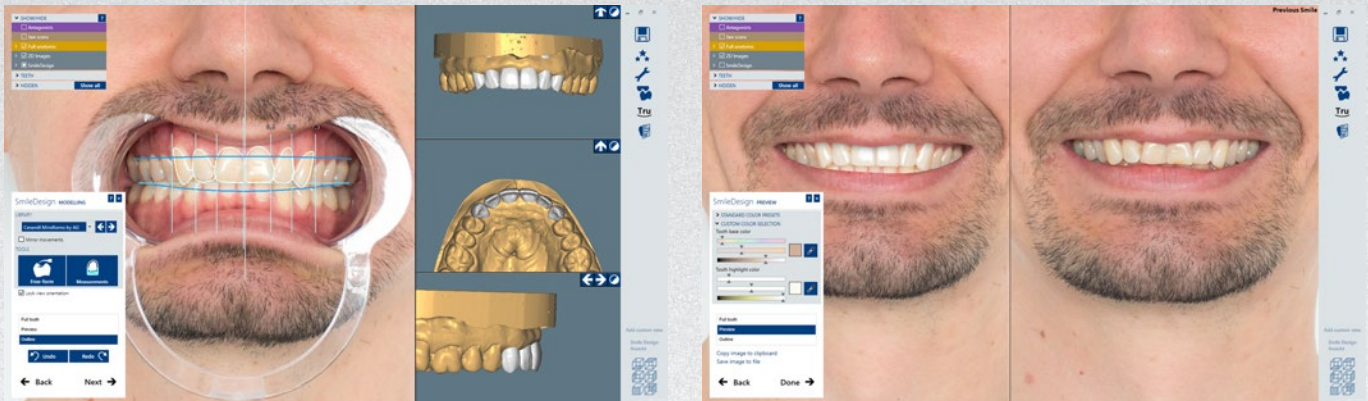


DIGITAL ESTHETIC PLANNING ENSURES SUCCESSFUL TREATMENT AND PATIENT SATISFACTION

The communication between patient, dentist and dental laboratory is crucial for a high quality, high esthetic dental restoration. Treatment success and patient satisfaction highly depend on a mutual understanding of esthetic and restorative goals. The basic idea of all available Smile Design software solutions is based on the vision of Dr. Ing. Christian Coachman to show his patients how the new smile might look even before the treatment started.

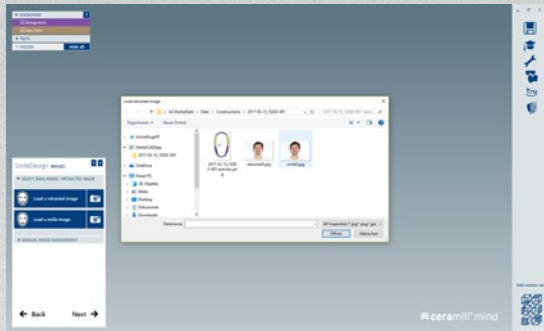
The new Software upgrade Ceramill M-Smile in combination with the Ceramill Mind design software now allow the esthetic planning, 3D design and production to be modeled in a continuous digital workflow. By starting the digital design process with the esthetic planning with Ceramill M-Smile the range of indications goes far beyond a mock-up and allows to use smile design as starting point for any type of digital dental indication.

No 3D face scanning required! Based on standard 2D digital pictures the designed smile is automatically transferred into 3D design of the restoration.

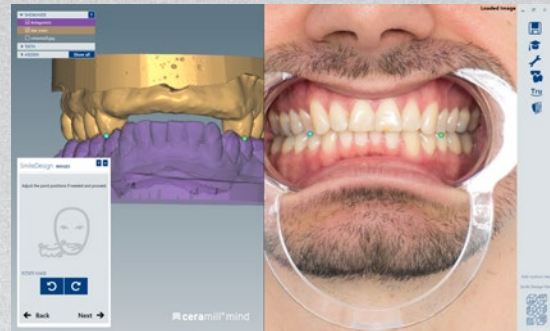


- _ Allows to visualize the final restoration result and consult with dentist and patient before starting any work
- _ Increases the satisfaction and acceptance of the patient by transferring esthetic planning into real life pictures
- _ Simplifies the esthetic planning based on the facial proportions through intuitive tools and workflows
- _ Automatic transfer into 3D design and seamless integration into the wizard guided Ceramill workflow for maximum comfort
- _ Full flexibility: Applicable for all available indication types

CERAMILL M-SMILE - WORKFLOW FOR DIGITAL ESTHETIC PLANNING



1. Load patient image



2. Align patient retractor image with digital model



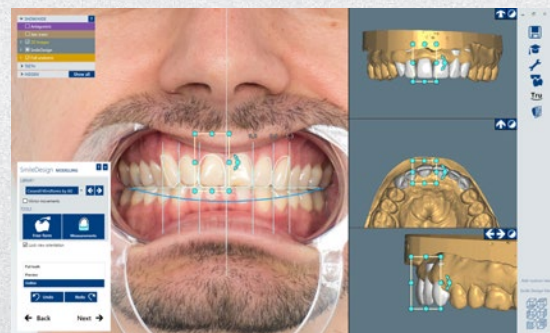
3. Align patient smile with retractor image



4. Define smile area



5. Define esthetic lines



6. Define dental lineup for final restorations



7. Preview of final situation



8. Preview image is stored in the database



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