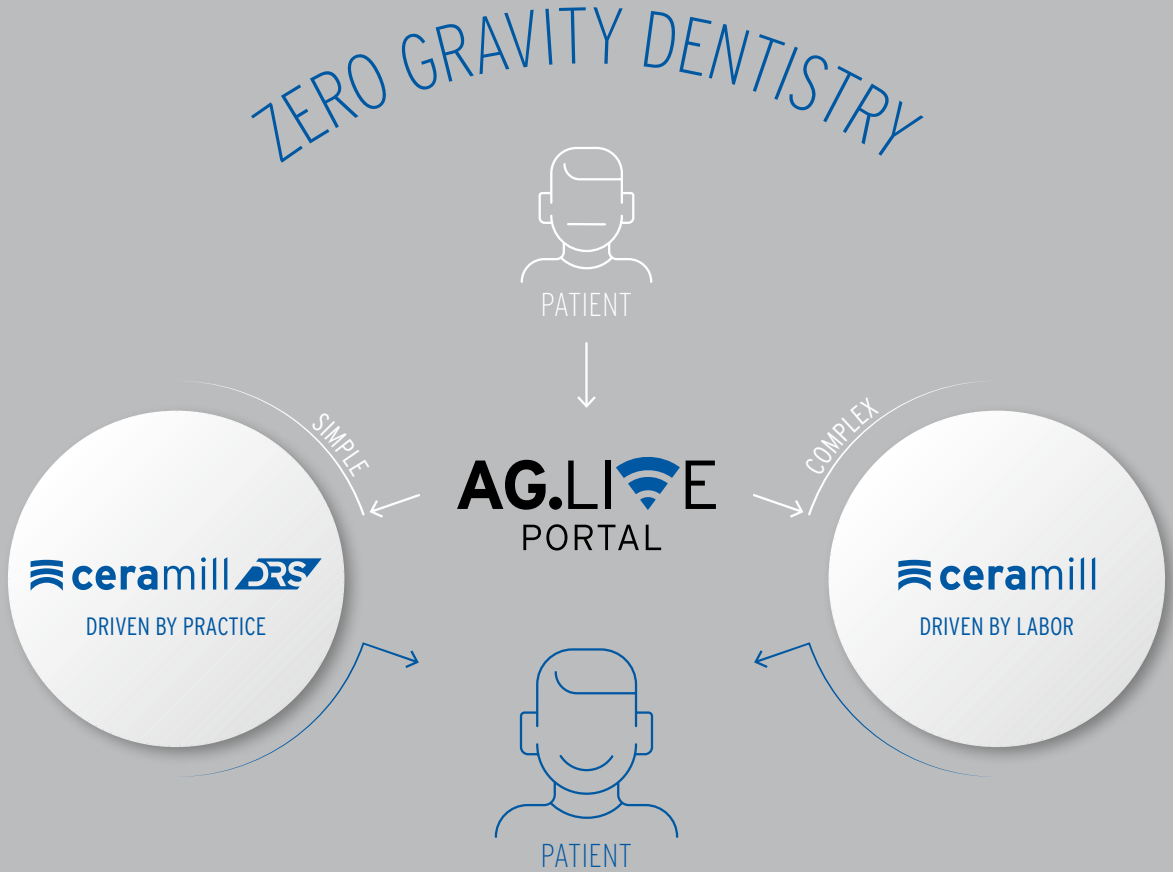




GENERAL CATALOGUE

# DENTAL WORKFLOW MANAGEMENT PLATFORM



The future of dentistry is digital. Digitalization requires change but offers lucrative opportunities at the same time. Trends such as the demand for direct restorations for simple restorations threaten to break down established structures and classic boundaries between the laboratory and the clinician. However, with the aid of digitization, new forms of collaboration are emerging which expand the win-win situation for dental technicians and clinicians - always with a focus on the well-being of the patient.

For optimal communication between both parties, Amann Girrbach developed the platform AG.Live, which provides infrastructure and patient case management with a level of consistency and efficiency that has never been achieved before. And the expertise of the dental technician is always available to the dentist.

All new and existing products from Amann Girrbach are connected to AG.Live to ensure a perfect workflow and seamless collaboration between the laboratory and the practice Zero Gravity Dentistry.

# FUNCTIONAL PRECISION CHAIN.

## Anatomically correct fixation of the skull-axis relation

- \_Anatomically correct fixation of the skull-axis relation in just two minutes
- \_Loss-free transfer of the oral situation to the Artex articulator
- \_Reduces or saves grinding times on the patient thanks to the highest precision

## Precise, stable and proven 1,000 times over

- \_Provides all functions for analysing the free spaces and excursion patterns
- \_Variable sideshift function for transversal clearance, adjustable
- \_Light and stable due to carbon construction for optimum handling

## Precision models - fast and cost-effective

- \_Outsmarts gypsum expansion and thus saves time-consuming grinding
- \_Time savings by manufacturing the dental arch in only 6 minutes (working time)
- \_Fault-free basis for digitalisation

## The high-performance scanner for open articulator scans

- \_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

## The intelligent design software

- \_High saving in time thanks to intuitive workflow according to dental technology logic
- \_Perfectly coordinated with scan and CAM processes to guarantee a continuous workflow
- \_Virtual Artex CR with an unlimited range of functions
- \_Automatic user guidance for maximum process safety and easy operation
- \_Future-safe due to continuous expansion of upgrade modules

## CAD/CAM materials for the highest demands in quality and esthetics

- \_Zirconia for great expectations - esthetic, cost-effective and efficient
- \_CoCr sintering and hard metal for fabricating non-precious metal restorations
- \_Resins for temporary restorations and therapeutic splints
- \_Hybrid ceramics which combine the positive properties of composites and ceramics

## 4- or 5-axis milling units for perfect in-house production

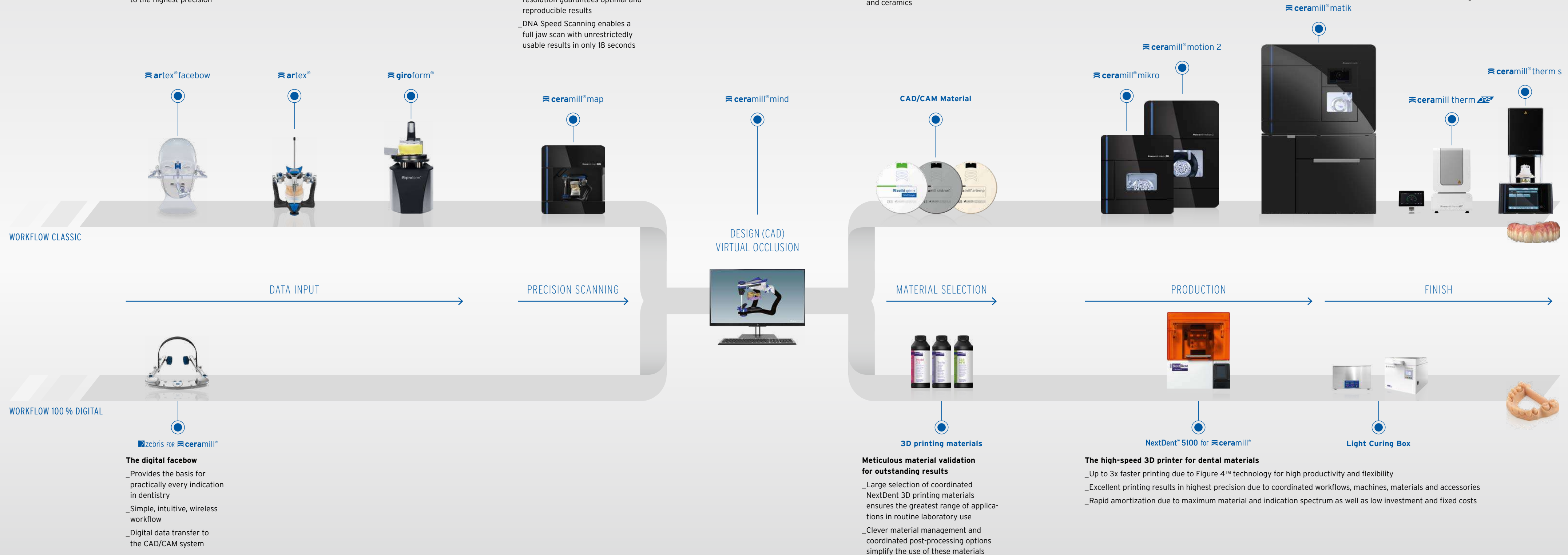
- \_Maximum range of indications
- \_Fast and efficient thanks to control and milling strategies optimised for dental applications
- \_Monocoque design guarantees absolute stability and low-vibration processing

## The Full Service Unit with maximum time savings

- \_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

## The sintering furnaces give the substance the necessary material properties

- \_Wide range of options for routine use - from a speed-sintering cycle of up to 20 min to the familiar overnight sintering
- \_Intelligent sintering satisfies the most stringent requirements for esthetics and strength



# CAD/CAM MATERIALS

## ZOLID ZIRCONIA



  
**zi white**



  
**zolid gen-x**



  
**zolid ht+ preshade**



  
**zolid ht+ white**



  
**zolid fx multilayer**



  
**zolid fx white**



  
**zolid fx multilayer**




  
**zolid drs multilayer**

## METAL



  
**ceramil sintron**



  
**ceramil CoCr  
MoguCera C Disc**



  
**ceramil ti-forms**





POLYMERS/WAX



**ceramill a-temp multilayer**



**ceramill a-temp**



**ceramill a-temp**



**ceramill a-splint**



**ceramill a-cast**



**ceramill wax**



**ceramill peek**



**ceramill m-plast**

CERAMICS

HYBRIDS

3D PRINT RESINS



**VITA SUPRINITY® PC**



**VITABLOCS® Mark II / TriLux Forte**



**VITA ENAMIC® multiColor**



**Next Dent**

# MODEL MANAGEMENT



"Professional functional diagnostics require suitable instruments. And I only use the best instruments for my patients."

Priv.-Doz. Dr. M. Oliver Ahlers  
CMD-Centrum Hamburg-Eppendorf, Germany

≡ artex® system	10
≡ artex® facebow	12
zebris for ≡ ceramill®	14
≡ artex®	16
≡ artex® anterior guide	22
≡ giroform® system	24
≡ giroform®	26



## ARTEX SYSTEM - THE PERFECT COMMUNICATION BETWEEN DENTIST, DENTAL TECHNICIAN AND THE PATIENT

For maximum accuracy of fit for well-functioning dentures, working with an articulator is essential. The Artex system is renowned worldwide as being fully functional and reliable, and for dentists and dental technicians alike it is an effective aid in recording static jaw relationships and simulating jaw movements.

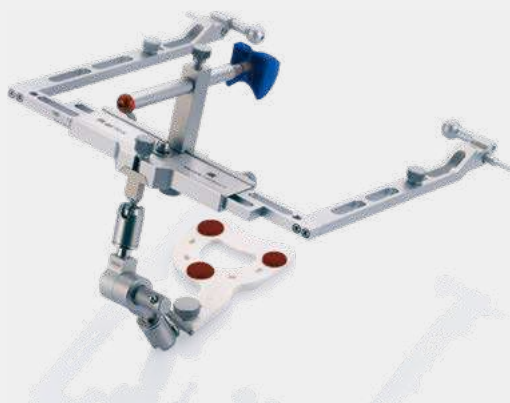
For the best possible link-up between dentist and dental technician. For the ultimate in reliability and accuracy. For perfect service to the patient.



## ARTICULATION SYSTEM COMPONENTS

### **artex<sup>®</sup> facebow**

Determining the cranium/axis-related position of the maxilla



### **zebris FOR ceramill<sup>®</sup>**

Digital face bow for fast data processing and reduction of manual reworking



### **artex<sup>®</sup>**

Model management articulator and mastication simulator



### **splitex<sup>®</sup>**

Interchangeability of Artex articulators



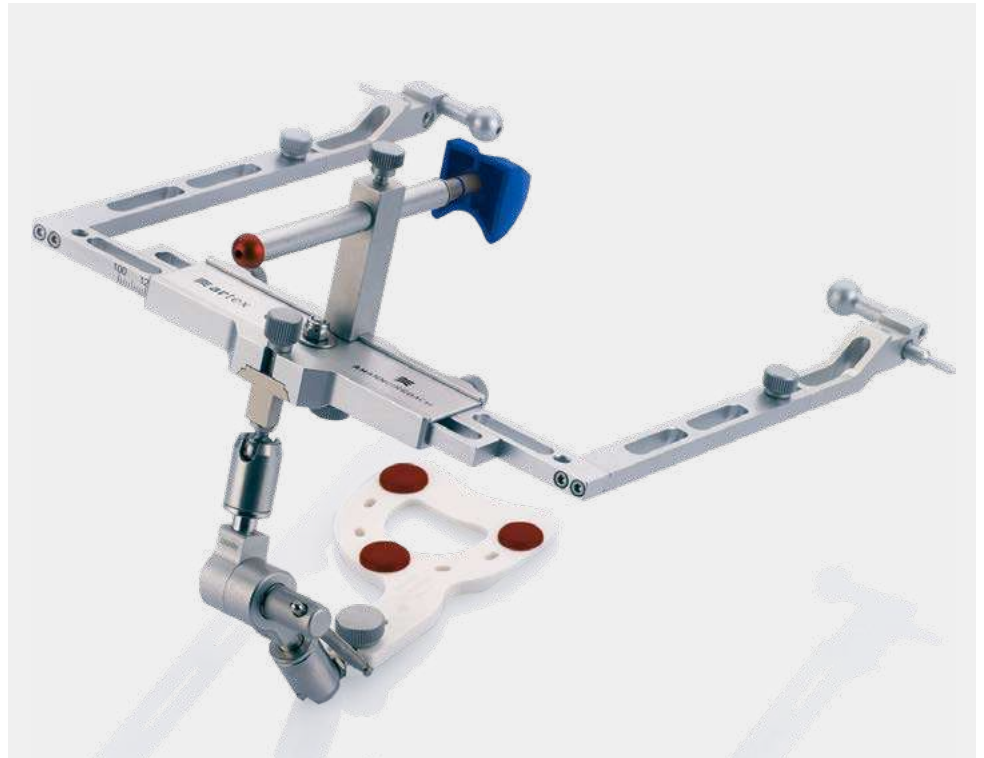
### **artex<sup>®</sup> anterior guide**

Ensures correct anterior teeth function



## ANATOMICALLY CORRECT FIXATION OF THE CRANIAL-AXIS RELATIONSHIP IN JUST 2 MINUTES

Artex facebow, transfer jig and articulator form a single communication unit. Dentists determine the cranium-axis position of the maxilla using the Artex facebow. This anatomically important parameter is quickly and precisely fixed in position on the transfer jig. This secures it for transport from the practice to the laboratory where the models are mounted patient analogous in the Artex articulator.



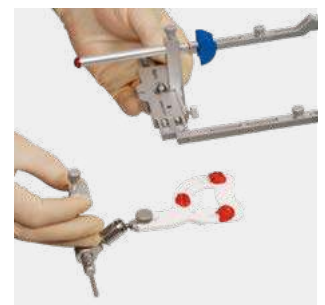
- \_Cranium-axis oriented transfer of maxillary model to the articulator transfers the real jaw position precisely to the articulator and consequently reduces grinding time at the chairside**
- \_Reliable reproducibility of arbitrary axis position using cushioned Leipzig Nasion**
- \_Cranium/axis relation determined in corresponding to the patient's anatomy in just two minutes**
- \_Quick and secure the 3-D universal joint**



Bite fork insertion



Face bow attached to the patient



Removing joint support with bite fork record from the face bow

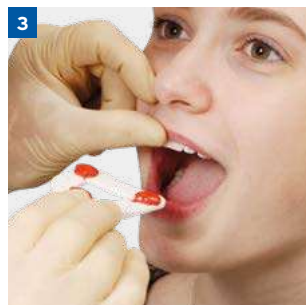
## THE ARTEX FACEBOW - THE BETTER WAY TO OBTAIN AN ANATOMICALLY CORRECT REGISTRATION OF THE PATIENT'S CRANIUM/AXIS RELATIONSHIP



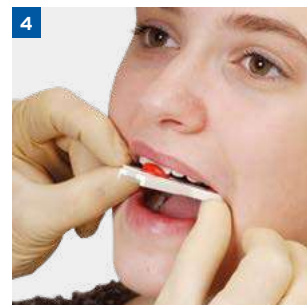
**1**  
Preparation of the facebow:  
The nasion bar is secured in a rear position. Joint support inserted with its vertical position fixed by a wing screw



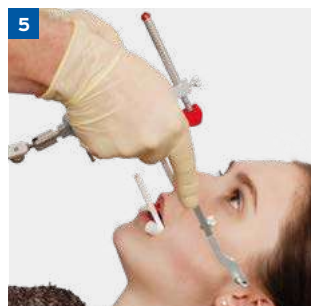
**2**  
Prepare the bite fork in a double-boiler



**3**  
Introduce the bite fork into the patient's mouth



**4**  
Position the bite fork at the dental arch of the upper jaw



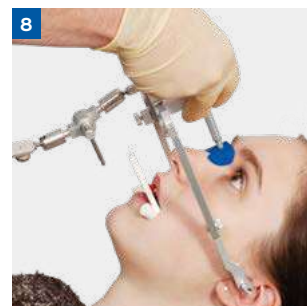
**5**  
Move the Artex facebow close to the patient's face



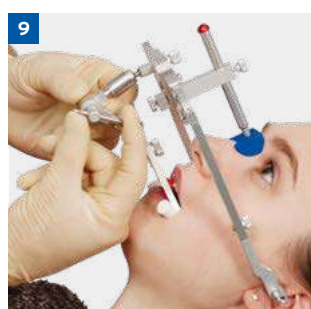
**6**  
Introduce the ear tips into the external auditory meatus while sliding the sides of the facebow together and fix them in position by tightening the locking screw



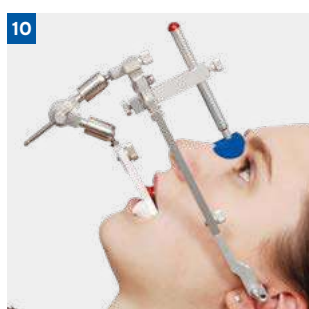
**7**  
Place the nasion adapter on the glabella by applying gentle thumb pressure till the marker on the nasion bar is reached. Patient is lying down



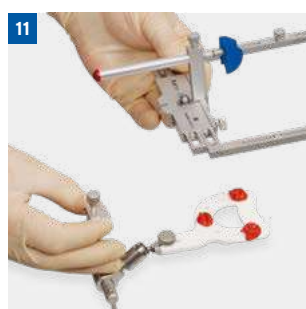
**8**  
Fix the nasion bar by tightening the screw on the bar with your free hand



**9**  
Move the joint support up to the bite fork and tighten the wing screw, thus securing the position of the upper jaw



**10**  
It takes only 2 minutes to apply the facebow



**11**  
Remove the facebow and detach the joint support together with the bite fork registration




**12**  
Fix the bite fork registration on a plaster bed on the transfer table for safe transport of the secured upper jaw position to the dental lab

# DIGITAL FACEBOW IN THE CERAMILL WORKFLOW


zebris for Ceramill can be used as a digital facebow, but offers numerous other functions in addition. Thus the JMA Optic system forms the basis for virtually any indication - from single restorations to scanning model-free with an intraoral scanner as well as large-span restorations or splints. The automatic data transfer to the Ceramill System and the resulting direct transfer into the articulator, allows Zebris for Ceramill to be ideally integrated into the daily workflow and reduces manual post-processing of the restoration. Overall, the result is a simple, safe workflow that can be used profitably in everyday work.



- \_Precise recording of the individual jaw situation as the basis for practically every dental indication - from single-tooth restoration to functional splints**
- \_Simple, intuitive, wireless workflow - profitable integration into daily routines**
- \_Precisely digitized functional data enable accurate dentures - reduce manual post-processing on the patient and simplify collaboration with the laboratory**



VIDEO  
Registrierung  
Basic



VIDEO  
Registrierung  
Advanced



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 WIFI.



# TROUBLE-FREE RESTORATIONS AT THE TOUCH OF A BUTTON - 100% DIGITAL



## THE DIGITAL WORKFLOW

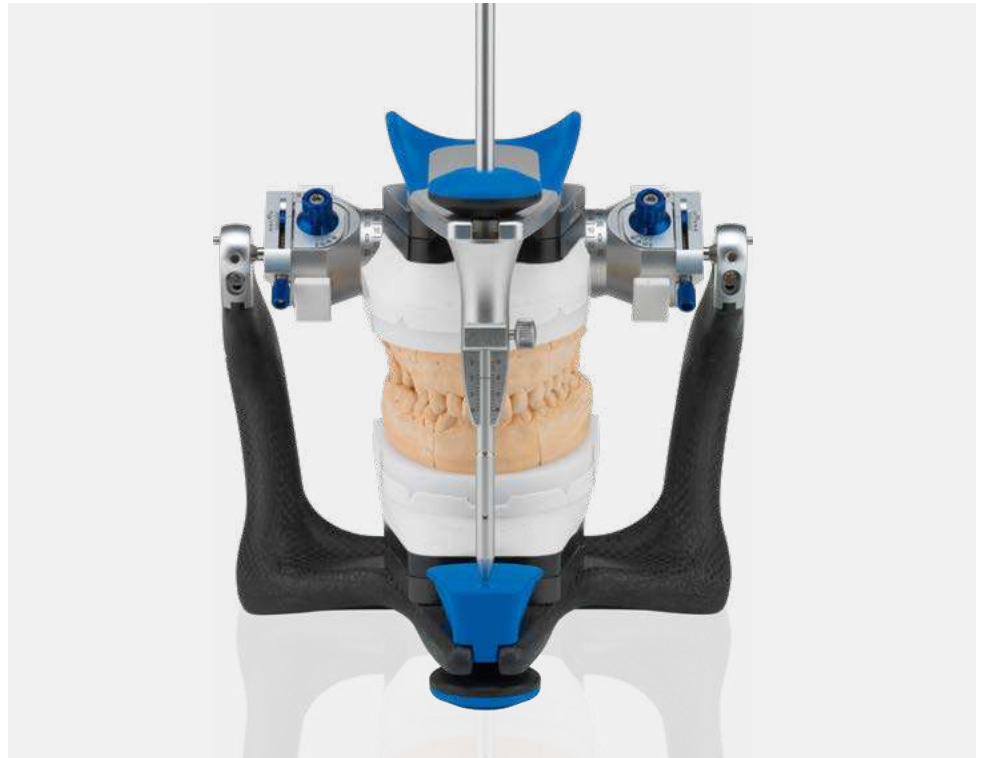
From the dental practice to the perfect restoration.



## SENSITIVE EXCURSION SIMULATORS - PRECISE, STABLE AND PROVEN IN 1000S OF APPLICATIONS

What the dental technician fabricates in the articulator must function intraorally. Artex articulators provide a highly precise option for accurately reproducing excursion patterns of patient receptors. Their light, stable design simplifies and accelerates work on the model while also reducing work on the patient and significantly increasing patient comfort.

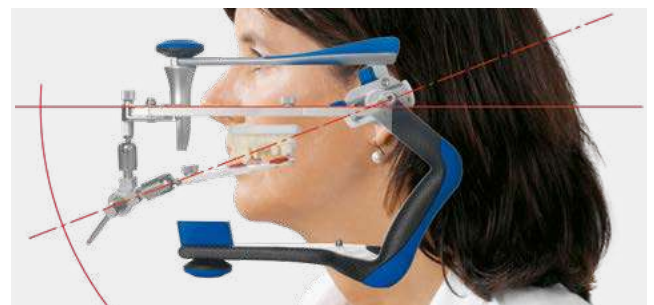
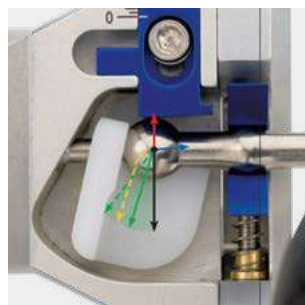
Their reliable precision, flexibility and simple, ergonomic handling make Artex articulators one of the most commonly used mastication simulators in the world.



- \_ Integrated magnetic mounting plate system**
- \_ Interior height 126 mm - large working area, provides plenty of space for mounting models**
- \_ Bonwill triangle with 110 mm lateral length - formed from intercondylar distance and incisal point**
- \_ Average marking of the occlusal plane**
- \_ Scaled, adjustable incisal guidance pin (-5 mm to +10 mm)**
- \_ Support pin for opened upper member of the Artex articulator**
- \_ Light and stable thanks to carbon design (CN, CT, CPR, CR)**

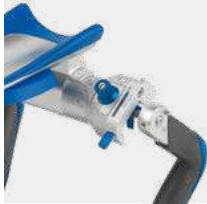
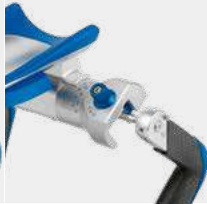



The reproducible centric guarantees a reliable start and end position of each excursion. Interferences less than 20µm can be identified, checked and removed



Facebow and Artex articulators - the communication unit for patient-analogue restorations

## ALL ARTEX ARTICULATORS AT ONE SIGHT

	Arcon-Design		Non Arcon-Design		
Technical Data Chart	Artex CR	Artex CPR	Artex CT	Artex CN	Artex BN
					
SCI (Sagittal condylar inclination)	-20° to +60°	-20° to +60°	-15° to +60°	35°	35°
Bennett-angle (HCI)	-5° to +30°	-5° to +30°	0° to +20°	15°	15°
Protrusion	0 to 6 mm	-	-	-	-
Retrusion	0 to 2 mm	0 to 2 mm	-	-	-
ISS (Immediate Sideshift)	0 to 1.5 mm (per side)	-	-	-	-
Distraction	0 to 3 mm	0 to 3 mm	-	-	-
Centric design	Centric lever for semi-axes	Centric lever for semi-axes	Centric click	Centric click	Centric click
Upper and lower articulator arms prevented from coming apart inadvertently in open centric by:	Arcon-Clip	Arcon-Clip	Centric plate	Centric plate	Centric plate
Arbitrary pins for direct transfer with Artex facebow	yes	yes	yes	no	no



## IN ARCON DESIGN

Artex articulators in Arcon design based on the human anatomy. The condylar balls are therefore in the lower member of the articulator and condylar guidance surface in the upper member. The condylar guidance elements can be adjusted using individual positioning registrations.

### MODEL MANAGEMENT ARTICULATOR AND UNIVERSAL DIAGNOSIS AND THERAPY DEVICE



- \_ Provides comprehensive adjustment possibilities to reproduce the patient's clearance and movement dynamics**
- \_ Fully adjustable Artex Carbon articulator offering the following additional functions:**
- \_ Variable sideshift function for transversal clearance, adjustable from 0 to 1.5 mm (for each side)**
- \_ Variable protrusion, adjustable from 0 to 6 mm**
- \_ Variable retrusion, adjustable from 0 to 2 mm**
- \_ Distraction permitting release of compressed mandibular joints from 0 to 3 mm**
- \_ Ideal for model analysis, splint manufacture and correction**
- \_ Adjustable inclination of the condyle track inclination from -20° to +60°**
- \_ Bennett angle adjustable from -5° to +30°**

### THE ARCON BASE DEVICE



- \_ Semi-adjustable Arcon articulator with 3 non-tip working positions**
- \_ High-precision and robust centric quick lock via mechanically guided semi axis**
- \_ Arbitrary pins for direct transfer with the Artex facebow**
- \_ Adjustable inclination of the condyle track inclination from -20° to +60°**
- \_ Distraction permitting release of compressed mandibular joints from 0 to 3 mm**
- \_ Arcon clip prevents separation of upper and lower articulator parts while centric is open**
- \_ Bennett angle adjustable from -5° to +30°**
- \_ Infinitely variable retrusion, can be set from 0 to 2 mm**

## IN NON-ARCON DESIGN

A feature of Artex articulators in non-Arcon design is their reliable and easy handling. In contrast to Arcon design articulators, the condylar ball is in the upper member of the articulator and the condylar guidance surface is in the lower member. The anatomy of the patient is thus "turned on its head", whereby upper and lower members of non-Arcon articulators form a single unit, even with opened centric.

 artex® ct


### NON-ARCON BASE DEVICE

- \_Partially adjustable non-Arcon articulator
- \_Adjustable inclination of the condyle track inclination from  $-15^{\circ}$  to  $60^{\circ}$
- \_Bennett angle adjustable from  $0$  to  $20^{\circ}$
- \_“Click” - centric quick lock
- \_Arbitrary pins for face bow adaptation

 artex® cn


### NON-ARCON BASE DEVICE

- \_Simple and pleasant handling
- \_3 working positions, no tipping over
- \_“Click” - centric quick lock
- \_Fixed average condyle track inclination at  $35^{\circ}$
- \_Bennett angle adjustable from  $0$  to  $20^{\circ}$

 artex® bn


### NON-ARCON BASE DEVICE

- \_Precise functional components made from aluminium and stainless steel
- \_Integrated magnetic mounting plate system
- \_Fixed condyle with a 19 mm path radius
- \_Fixed average sagittal condylar path inclination of  $35^{\circ}$
- \_Fixed Bennett angle of  $15^{\circ}$
- \_“Click” - quick centric lock



## PRECISELY INTERCHANGE ARTEX ARTICULATORS

All Artex articulators can be adjusted to uniformity of design using the Splitex key and Splitex plate set. The magnetic plate system is used for metric interchangeability. The precision of calibration is such that deviations are brought down to below  $10\ \mu\text{m}$ . This means that models can be mounted and changed with precision on any calibrated Artex.

Adjustability of the Artex articulators greatly simplifies model transfer between the practice and laboratory. Where both parties have a calibrated articulator, then only the models need to be transported, and not the complete articulator. Not only does this protect the articulator against handling problems, it also saves on postal charges.



**\_Highly precise interchangeability of Artex articulators thanks to tolerances below  $10\ \mu\text{m}$**

**\_Saves articulators and increases their profitability**

**\_Simplifies dispatch (only the model) and increases the information flow**

**\_Splitex Counter plates prevent the risk of poor fit caused by plaster expansion and guarantee quick, precise adaptation to Splitex metal plates**



Splitex-keys



Splitex counter-plates in black or white



Splitex plate set for the carbon version

SPLITEX CALIBRATION



1 Remove model plates, magnets and magnet holders from the upper and lower parts of the Artex articulator



2 Replace the magnet holders by the mounting plates and secure them with screws in the upper and lower parts of the Artex articulator



3 Screw down the Splitex TOP plate on the upper part of the Artex articulator



4 Insert the Splitex magnet holder and magnet into the TOP plate



5 Insulate the carbon surface in the area of the adhesive plate by applying a thin layer of petroleum jelly



6 Screw down the adhesive plate onto the lower part of the Artex articulator



7 Place the Artex articulator upside down and put Splitex key in place



8 Put Splitex mandibular adjustment plate on top of the key



9 Apply two strands of glue near the center of the Splitex plate



10 Close the Artex articulator and let the glue dry



11 Calibrate further Artex articulators using the Splitex key for metric commonality



12 Models can be transferred from one calibrated Artex articulator to the next as every dental technician and every dentist has his or her own Artex articulator



## PROTECTS THE POSTERIOR TEETH AND GUARANTEES CORRECT INCISAL GUIDANCE

The Artex incisal guidance is used for fabricating functional anterior restorations, as correct incisal function is the prerequisite for a durable posterior restoration and preserving the residual posterior teeth. The incisal-canine guidance can be determined using the diagnostic models before grinding the teeth and transferred to settings of the customised incisal guidance unit.

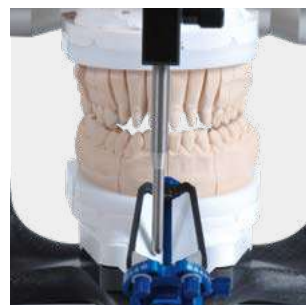
Customised incisal guidance has been integrated in the Ceramill CAD/CAM system without limitations and is an integral component of the Ceramill Artex virtual articulator.



- \_ Reproduces the incisal guidance of the patient**
- \_ Guarantees correct incisal function and protects the posterior teeth against overloading**
- \_ Avoids ceramic fractures due to overloading**
- \_ Also practical for setting up guidance with posterior restorations**
- \_ Avoids excessive grinding**
- \_ Component of the Ceramill Artex virtual articulator**



Setting the customised incisal-canine guidance with diagnostic models - the posterior teeth disocclude



Prepared anterior with applied customised incisal-canine guidance

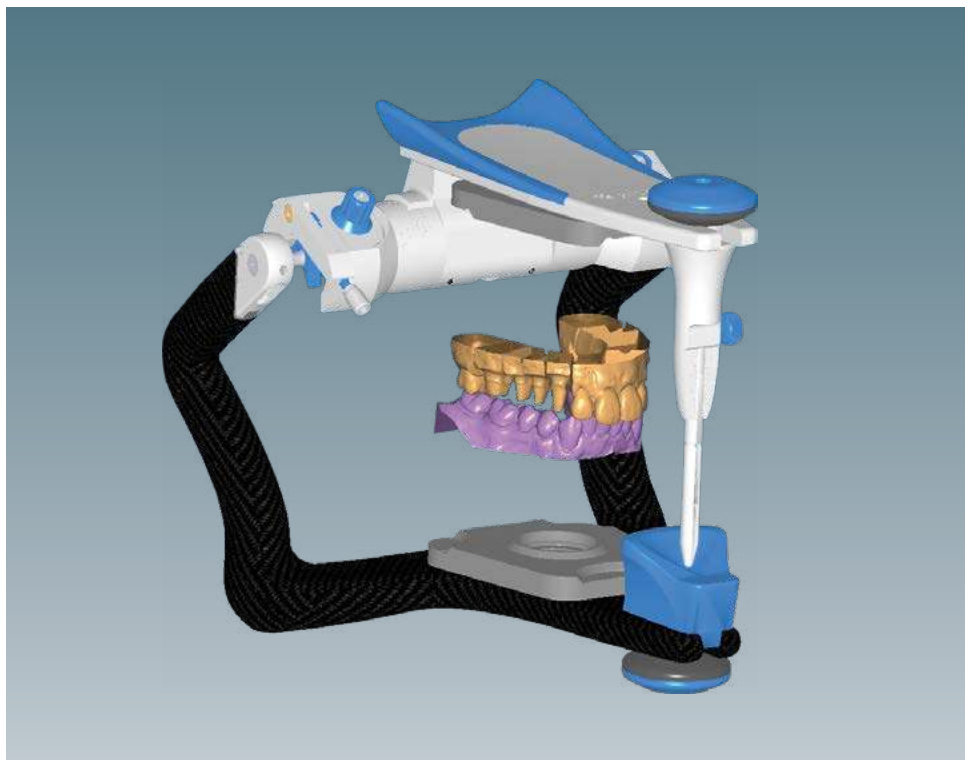


Customised incisal guidance table in the Ceramill Artex. The virtual and analogue techniques are identical

## THE FUNCTIONAL INTERFACE BETWEEN MANUAL AND DIGITAL DENTAL TECHNOLOGY

With manual production of dental prosthesis working with the articulator is standard for dental laboratories. In order to achieve the same quality of the works virtually, it is only logical and consistent to enable this by means of a CAD/CAM system. The virtual articulator "Ceramill Artex" serves as a bridge between manual and digital techniques:

The model pair in the Artex articulator is transferred to the Map 600+ -scanner while holding the same Artex mode by means of the Ceramill transferkit; it is subsequently scanned-in in the appropriate proportion. The movement options of the Artex CR are thus synchronised digitally and manually. Interfering structures can already be removed, reducing time-consuming grinding in at the chairside to a minimum.



### **\_Virtual Artex CR for speedy entry into the digital world**

- \_The virtual articulator offers the same functional scope as compared to the real Artex CR**
- \_Ceramill transfer kit guarantees loss-free transfer of patient data to the scanner**
- \_The calculation of the fully anatomical construction is dynamic and static under consideration of the antagonists and the adjusted values of the articulator**
- \_Space for the porcelain built-up is automatically foreseen during the construction**



Models in the real Artex CR



Model in the Artex Fixator



Adjustment modes at the virtual Artex CR

## OVERCOMES PLASTER EXPANSION - EASILY QUICKLY AND PRECISELY

The fitting accuracy of dental prostheses is largely dependent on the precision of the models. Yet this is the very area in which the natural expansion of the plaster constitutes the greatest source of error. The effects of plaster expansion are evident in the patient's mouth in problems with the fit of prosthetic work, such as tension areas. Giroform out-smarts the plaster expansion of the jaw segment, thus providing a true model of the patient's mouth. The Giroform System provides dental technology with a perfect and high-precision model making system on the market. By employing standardized and optimized procedures Giroform guarantees permanent and reproducible quality.



## MODEL FABRICATION SYSTEM COMPONENTS

### giroform® pin drill

Fabricate precision models precisely, easily and quickly



### giroform® base plates

Dimensionally stable plastic plates for impression-taking and overcoming plaster expansion



### giroform® secondary plates

Torsion-resistant and reusable splitcast plate with magnet



### giroform® duplicating flask

Model die duplication of individual segments



## FABRICATE PRECISION MODELS PRECISELY, EASILY AND QUICKLY

The pin drill allows precise, fast and safe determination of the desired drill position.

Drilling starts at the press of a button. The plate holder is fastened magnetically, securing the drill position.

In order to guarantee pin friction, identical, smooth-faced and regular holes are drilled into the Giroform base plate. The precise drill guide also enables uniform drilling depth. These specific characteristics of the Giroform pin drill guarantee precise, fast and cost-effective model manufacture.



- \_Laser beam for easy drill positioning**
- \_Plate holder smoothly adjustable thus ensuring safe and fast operation**
- \_Plate holder is secured magnetically and automatically when drilling starts**
- \_Automatic drill advance guarantees identical boreholes in the plates (0.5 seconds per drill cycle)**
- \_Ergonomically positioned tip-on buttons for a high degree of operating convenience and easy activation of drilling**
- \_Guide grooves ensure easy drill change**
- \_Universal plate holder for all sizes and shapes of Giroform baseplates with anti-rotation protection**



Strong, practical and aesthetic - stainless steel housing



Laser beam for easy drill positioning



Plate holder is secured magnetically and automatically when drilling starts

## OVERCOMING PLASTER EXPANSION

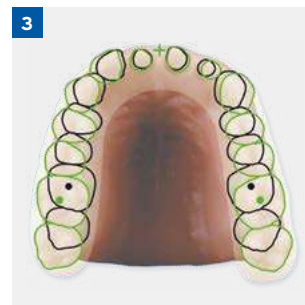
### UNDESIRABLE PLASTER EXPANSION IN MAKING THE MODEL:



1 The patient's original mouth position



2 The tooth arch following plaster expansion



3 By superimposing the original and the expanded tooth arch, the deviation is clearly shown

### HOW DOES GIROFORM SOLVE THIS CHALLENGE?

Defeat expansion with Giroform  
= Eliminate tensions from  
prosthetic work



4 The pin positions are chosen taking this cast into account. By drilling the pin-holes, there is secure and immovable patient-analogous transfer to the dimensionally-stable Giroform Plate. The pin-holes ensure that the positional information is now stored. The Giroform Base Plate serves as a kind of memory stick



5 The cast plaster tooth arch is removed from the base plate after 30 minutes - i.e. before the onset of plaster expansion. This allows the tooth arch to expand freely. However, after this it no longer matches the drilled original information on the Giroform Plate



6 After sawing or separating the tooth arch, the pins again fit into the drill-holes. The cut section serves as an expansion joint to accommodate the expansion, which is now restricted to just the individual segments, thus no longer causing distortion of the tooth arch. The segmented model therefore offers a precision basis for perfectly-fitting work



## DIMENSIONALLY STABLE PLASTIC PLATES FOR MODEL FABRICATION WITHOUT PLASTER EXPANSION

Using the Giroform base plate means that the model is already half finished. The base plate is expansion-resistant, saves one working step and prevents plaster expansion.

Prior to using the plaster, the pinhole is set into the base plate, recording the position of the individual segment.

The high-precision homogeneous plate material provides for smooth drill holes and guarantees precise pin guidance.

The flat surface of the base plate enables simple control of the segment position via an easily recognizable light gap. Cost-effectiveness is further increased by the possibility to re-use the base plate and the retention disc.

**Saves working time (base plaster, sleeves and moulds). Base plate ready-to-use and available in three sizes**

- L for standard cases
- XL for exceptionally large arches
- Quadrant for sectional impressions

**Multiple-use of premium plates for opposite models and classic plates**

three drill holes for pin fixing if working without a metal disc

**Cost savings**

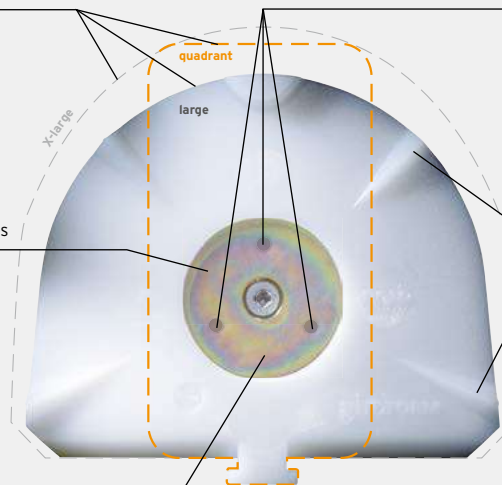
low-priced reusable metal discs for classic base plates

**Split cast checked for scientifically verified geometry**

triangular split cast with wedge tapering to centre

**Screw fitting no longer required saving time**

premium base plates incl. metal discs



- \_ Using the Giroform base plate means that the model is already half finished
- \_ Inherently stable base plate instead of the risk of secondary plaster expansion due to base plaster
- \_ Plate material and the plate strength provide for precise pin guidance
- \_ Only minimal amounts of dental arch plaster required
- \_ Flat base plate surface enables individual segment monitoring at a glance
- \_ Inclined rear surface facilitates insertion in the plate holder and model removal from the articulator
- \_ Base plate can be re-used for opposing model



Individual segments checked at a glance. Plane surface of the base plate



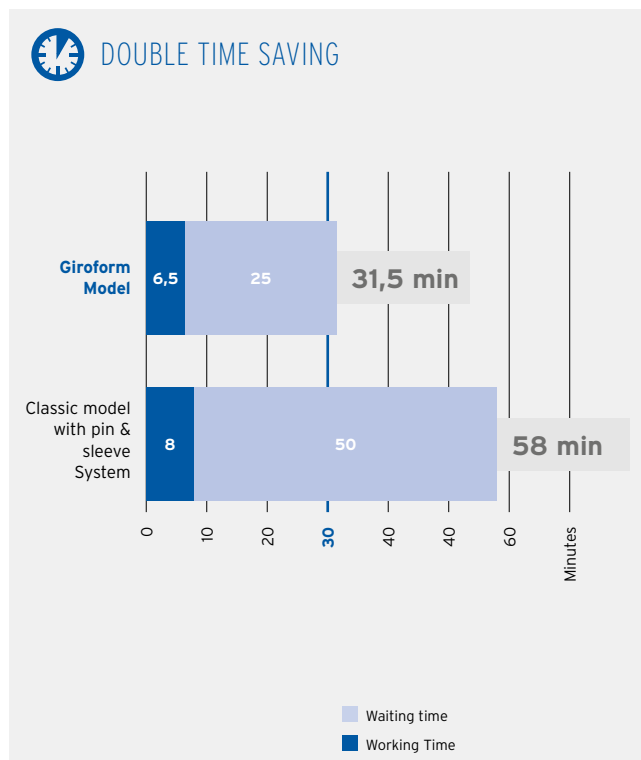
Multiple usage of used baseplates for opposing dentition models and unscrewed metal plates as retention discs for diagnostic models



Slanting facilitates insertion in drill plate holder and removal from articulator

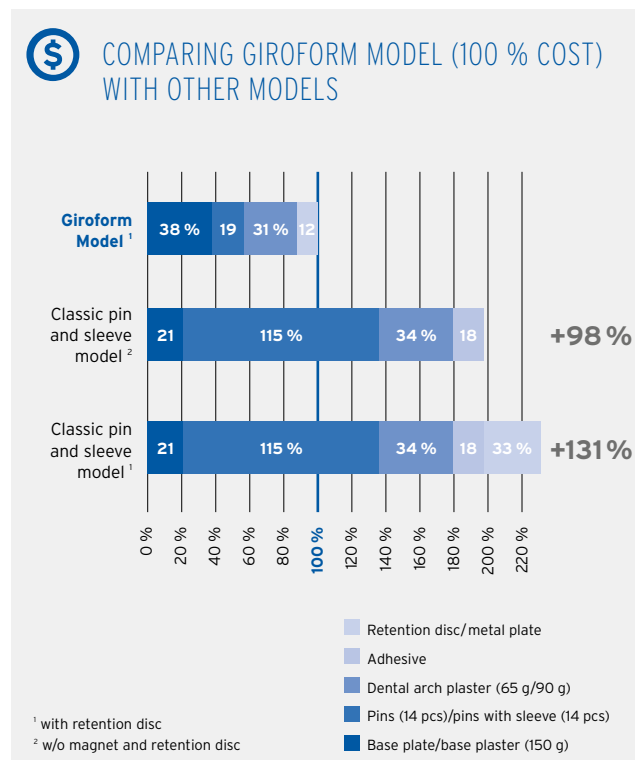


## THE SYSTEM WHICH SAVES DOUBLE THE TIME



- \_The actual time required to make the model is just 6-7 minutes
- \_The base is already completed due to the dimensionally stable Giroform base plate and does not require any curing time
- \_Segmentation of the dental arch can commence after a little more than 30 minutes

## THE SYSTEM THAT SAVES TIME AND MATERIAL



- \_The amount of plaster needed is reduced due to blocking out the impression with Giroform putty
- \_The metal disc is already fixed into the premium base plate
- \_Multiple use of base plates, secondary plates and metal discs
- \_Base plaster no longer required
- \_The base plate is cheaper than the base plaster
- \_No adhesives, guide sleeves or shell moulds required

## FROM THE IMPRESSION TO THE FINISHED, HIGH-PRECISION GIROFORM MODEL AND APPLICATION IN THE ARTEX\* ARTICULATOR



1 Trim the impression (working model)



2 The impression is fixed onto the impression carrier with Giroform - putty, align the impression and putty insulation is trimmed



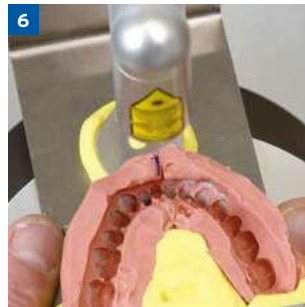
3 With the Giroform base plate inserted, the impression carrier is attached to the plate holder



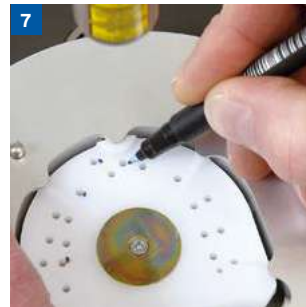
4 Position drilling hole with the aid of the laser beam and initiate drilling procedure



5 When the Giroform pins have been inserted into the drilled holes, the base plate is put aside for later use. (Important when multiple models are produced)



6 Trimmed impression of the opposing jaw on impression carrier, while the holes for the 8 pins are drilled for the counter bite



7 Mark out the selected drilling hole on used base plate (multiple usages)



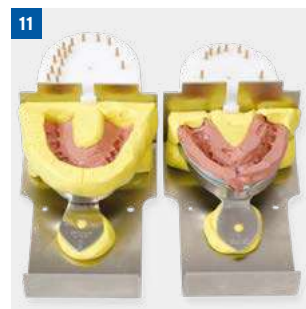
8 Used plate with drilled holes and pins for opposite bite



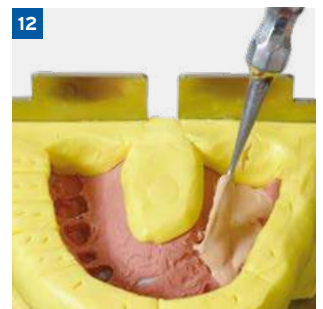
9 Smartbox - push button for water and plaster powder dosage



10 Smartmix mixes the dental arch plaster



11 Upper and lower jaw prior to stone pour in each case with pinned bases



12 Fill the alpenrock eliminating any voids into the impression model - only to the top of the putty insulation

\*Method can be used for patients with optimally functioning pre-condition



After 30 minutes, the dental arch is detached from the base plate



Partition/saw tooth arch into segments (Tip: in order not to damage the tooth arch, first separate the tooth arch in the middle)



Giroform model pair



At the dental lab, the transfer table is placed in the articulator or the special mounting articulator used as a plastering device



Artex CR with inserted upper jaw model



Giroform-Models were articulated in static occlusion using a face bow registration



Mark out the grinding facets on the occlusion with a pencil



Reduce the master model for height analysis. Remove all segments up to the neighbouring teeth from the model



Open the side shift setting screw to open the ISS. Set the anterior guidance pin out of contact



To determine the height the antagonists are put into their deepest position alongside one another. Articulator centric is open



Re-insert the other segments and remove the segments that determine the height. Use articulating film to mark out and adjust any premature contacts - with the centric articulator relation closed



Check the dynamic occlusion - lateral motion. Are the abrasion facets on the teeth close to the restoration area providing guidance now?

## FABRICATE PRECISION MODELS ECONOMICALLY AND QUICKLY

### giroform® secondary plate



#### STABILITY AND COMFORT

- \_ Split cast check enables passive (non-magnetic) precision fit to the base plate
- \_ The balanced magnetic force and high material strength prevent deformation
- \_ The retention pattern on the rear has been optimized to provide excellent grip for the plaster during insertion in the articulator but also its easy removal after use

### giroform® quadrant plate



#### STRAIGHTFORWARD AND VERSATILE

- \_ The standardized plate size is ideally suited to partial impressions - both left or right quadrant casts. No more trimming or grinding required
- \_ Drill holes for pins can be positioned at underside and will thereby facilitating insertion, casting and removal from the articulator
- \_ The Vertex® adapter enables direct connection to Vertex® articulators
- \_ Also adaptable with the Orbix system with minor alteration

### giroform® duplicating flask



#### PRECISE AND ECONOMICALLY PRICED

- \_ Precision brass pin
- \_ With smooth finish on tapered section for accurate fit in base plate hole
- \_ With active retention area for perfect grip in dental arch plaster
- \_ Reasonably priced

## SUPER HARD GYPSUM FOR THE OPTIMAL FABRICATION OF PRECISION MODELS

The super hard Class 4 gypsum is suitable for the production of tooth arches, single stumps and control models. Processing and expansion properties perfectly match Giroform model production processes.



- \_ **Expansion properties (hardening expansion of only 0.08%) perfectly match Giroform model production**
- \_ **Splinter-free processing and high pressure-resistance**
- \_ **Easy pouring due to shaker effect**
- \_ **Stable without shaker effect (thixotrop)**
- \_ **Comfortable processing through snap-set**
- \_ **Extremely long 7-minute processing period**
- \_ **Rapid completion of hardening after 12 minutes**
- \_ **Rapid final hardness after 35 minutes**
- \_ **Possible to scan, e.g. for strip light scanners such as the Ceramill Map**



Four colours: pastel, saffron, gold, grey (see illustration above)



4 kg bag - economical storage-stable package size



Easy to handle



# SCAN



"Because precision and speed are the most important factors for me, the Ceramill Map 600+ from Amann Girrbach immediately impressed me. It generates a high-quality scan of my model in the shortest time.

The open work surface and the universal carrier plate also simplify my routine work."

Tim Brand ZTM, Dentallabor Brand, Germany

 ceramill map

 ceramill® map 600+

37

 ceramill® map 200+

39






## THE NEW SCANNER GENERATION HAS MANY NEW AND INNOVATIVE FEATURES

The technologically innovative Map product portfolio was developed to satisfy the specific needs and requirements of dental laboratories and clinics. The intelligent and efficient scanner solutions from Amann Girrbach enable precise scanning of the most diverse indications. The precision of the digital impressions is extremely important for subsequent process steps to fabricate high-quality and perfectly fitting restorations. The new features and the different scanner designs open up fascinating new possibilities that can be perfectly integrated into every laboratory.

### ALL FUNCTIONS AT A GLANCE



	FUNCTION	ceramill® map 200+	ceramill® map 600+
 INTELLIGENT	Multi-Die	<input type="radio"/>	<input type="radio"/>
	Intelligent Multi-Die	<input type="radio"/>	<input type="radio"/>
	Texture and Color Scan	<input type="radio"/>	<input type="radio"/>
	Universal Scan	<input type="radio"/>	<input type="radio"/>
	Free scanning sequence	<input type="radio"/>	<input type="radio"/>
	Auto-Articulation	<input type="radio"/>	<input type="radio"/>
	All-In-Scan		<input type="radio"/>
 PRÄZISE	Optical autofocus (automatic positioning of model)		<input type="radio"/>
	Blue-Light-Technologie		<input type="radio"/>
	HD-Scan		<input type="radio"/>
 EFFIZIENT	Impression Scan / Triple Tray / Full arch	<input type="radio"/>	<input type="radio"/>
	Splitex-Integration	<input type="radio"/>	<input type="radio"/>
	Open scannen	<input type="radio"/>	<input type="radio"/>
	DNA Speed Scanning	<input type="radio"/>	<input type="radio"/>
	Articulator-Scan		<input type="radio"/>
	Fixator Scan		<input type="radio"/>
	DNA High Speed matching	<input type="radio"/>	<input type="radio"/>

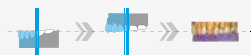
The new generation of scanners comes with many new and innovative features that greatly increase the performance, scanning accuracy, and scanning speed and thus ensures the greatest positive impact for every dental laboratory.



#### SPEED-UP MATCHING

The improved calculation algorithms in the software generate significant improvements in the speed of the matching process. The active waiting time can thus be reduced by up to 50%.

- \_ **Faster calculation algorithm**
- \_ **Significant improvement in the matching speed**
- \_ **Depending on the indication, between 30% and 50% faster**



#### AUTO-ARTICULATION

The computing space feature automatically allocates the previously scanned upper and lower jaws, which means that the vestibular scan step can be omitted. By optimizing the working routine, the total scanning process can be accelerated and the active waiting time reduced to a minimum

- \_ **Automatic allocation of upper and lower jaws without an additional vestibular scan**



#### FREE SCANNING SEQUENCE

The "Free Scan Sequence" ensures the workflow is dynamic and offers greater flexibility when scanning. The user can make decisions depending on the situation and determine the scan sequence specifically for the current case. This increases working comfort while also positively impacting the working rhythm.

- \_ **Enables situation-dependent and flexible working**
- \_ **Positively impacts working comfort and rhythm**



#### NEW SCANNER GUI

The user interface is derived from the design of Ceramill Mind. This brings the advantages of a clear and user-friendly display that makes working with the software faster and more comfortable.

- \_ **Adaptation of the software interface to the new Ceramill Mind design**



## 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 port-folio 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.

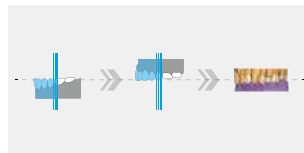
The highly sensitive industrial 3D sensor with Blue Light technology ensures outstanding depth of field and a scanning accuracy of 4 µm.



- \_ 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**
- \_ The Ultra HD industrial camera with 3D sensor and blue-light technology ensures a very high scanning resolution and highly reproducible results**
- \_ DNA HIGH Speed Matching enables workflows that are up to 20% faster and minimal waiting times in the laboratory**



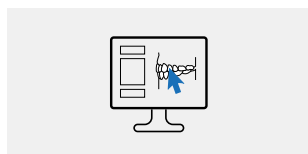
SPEED-UP MATCHING



AUTO-ARTICULATION



FREE SCANNING SEQUENCE



NEW SCANNER GUI



NEW INDUSTRIAL CAMERA

## ENTRY-LEVEL SCANNER COMPACT, PRECISE, QUICK

Ceramill Map 200+ is a fully automatic 2-axis stripe-light scanner, ideal for entry into CAD/CAM technology due to its uncomplicated handling with simultaneous high precision. It is also suitable for all users who want to produce cost-effective, precise scan data. Equipped with newly developed DNA speed scanning strategies and high-resolution 3D sensors it shares the same standards of precision and speed with the bigger version Ceramill Map 600+. In combination with the automatic user guidance Ceramill Map 200+ brings together convenience and precision on a compact footprint of 390 x 360 x 310 mm.

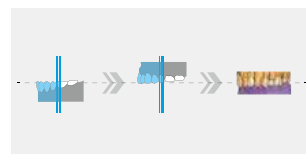
Ceramill Map 200+ has an open interface, so that scans (STL files) can also be loaded in other CAD programmes.



- \_Maximum precision with a minimum footprint**
- \_DNA speed scanning reduces scan times by up to 50%**
- \_Open interface and automatic user guidance**



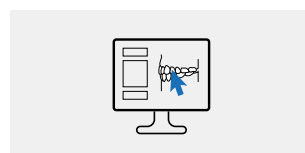
SPEED-UP MATCHING



AUTO-ARTICULATION



FREE SCANNING SEQUENCE



NEW SCANNER GUI

## 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.

- \_ 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**



## NEW INDUSTRIAL CAMERA

The new 3.2 MP camera that is used for the Map 600+ guarantees high resolution, particularly in the critical marginal area. In addition to the qualitative improvement in the scanning image, the scanning process can also be accelerated by up to 20% when the scanner is used in combination with a premium PC.

- \_ Higher resolution, particularly in marginal areas**
- \_ Up to 20% faster**

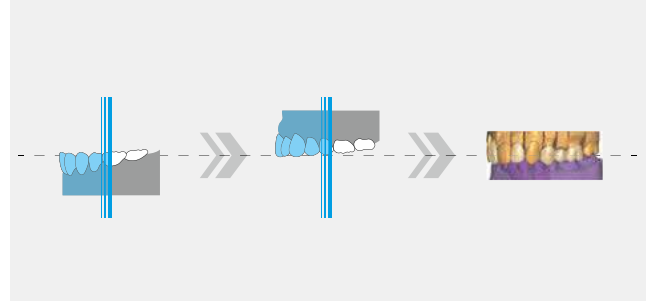
## FULLY AUTOMATED WORKFLOWS AND NEW INTELLIGENT FEATURES

### IMPRESSION SCAN



Fully automated workflow for scanning impressions

### AUTO-ARTICULATION



\_ Automatic allocation of upper and lower jaws without an additional vestibular scan  
\_ Maximum time savings and maximum comfort—manual interruption to the lab workflow is almost entirely a thing of the past

### ALL-IN



**i** ONLY FOR  
MAP 600+

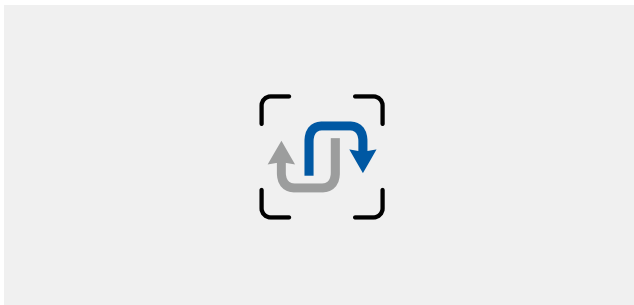
Digitization of a quadrant model in just two scanning steps as well as automatic alignment of up to 3 single stumps

### INTELLIGENT MULTI DIE - UP TO 12 STUMPS



Scanning up to 12 stumps and assigning the correct jaw position in one run with the Ceramill M-Die

### FREE SCANNING SEQUENCE



\_ Enables situation-dependent and flexible working  
\_ Positively impacts working comfort and rhythm

### AUTOFOCUS OPTICAL



Positioning of the model in the optimal measuring field



# DESIGN / CAD



"With the AmannGirrbach's Ceramill Mind, every member of my laboratory staff can be involved in digital dental technology. In addition, for the professionals among us, the software offers virtually unlimited design and manufacturing options in the Ceramill product family."

Michael Stegmeier, MDT,  
Stegmeier Zahntechnik, Germany

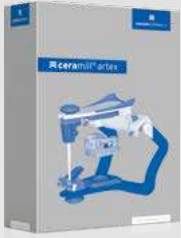


ceramill® mind

	42
Crowns and bridges	46
Implant prosthetics	56
Full-denture prosthetics	62



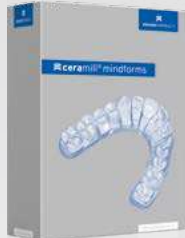
THE INTELLIGENT DESIGN SOFTWARE -  
DEVELOPED ACCORDING TO DENTAL TECHNOLOGY LOGIC



Module for crowns and bridges

**ceramill® artex**

The virtual articulator - the functional interface between manual and digital technology.



Module for crowns and bridges

**ceramill® mindforms**

Ceramill library teeth by Knut Miller.



Module for crowns and bridges

**ceramill® m-splint**

Fabricate functional and accurately fitting therapeutic splints.

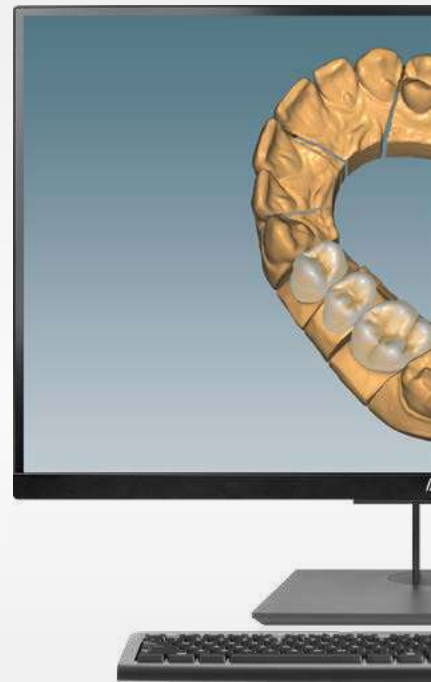


Module for crowns and bridges

**ceramill® microshell**

Fabricate temporary eggshell restorations quickly and easily.

The Ceramill Mind design software, developed by Amann Girrbach in close collaboration with dental technicians, meets all requirements. Perfectly coordinated to the Ceramill Map scanner Ceramill Mind has been seamlessly integrated in the system architecture of the Ceramill system and is characterised by easy handling, process reliability and precision. The user guidance of the CAD program, which is oriented along common laboratory routines, considerably simplifies the process of frame fabrication and covers a comprehensive spectrum of indications from crowns and bridges to complex implant work or full dentures. Features and areas of application are progressively refined, allowing the Ceramill Mind to be upgraded by a large number of software modules.



Upgrade module for crowns and bridges

**ceramill® m-build**

Digital model fabrication using the Ceramill Motion 2 and NextDent 5100 for Ceramill.



Upgrade module for crowns and bridges

**ceramill® trusmile**

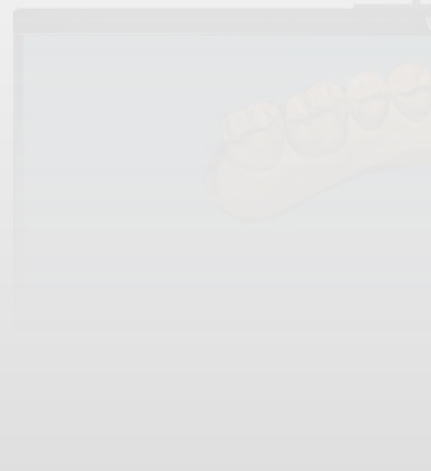
The module for natural reproduction of the tooth shade gradient already during the design.

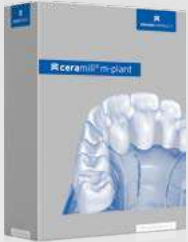


Upgrade module for crowns and bridges

**ceramill® m-pass**

The import module for jaw movement data from external systems.

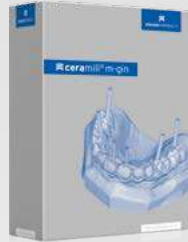




Upgrade module for implant prosthetics

### ceramill® m-plant\*

Fabricate customised abutments and screw-retained bridges digitally using the Ceramill system.



Upgrade module for implant prosthetics

### ceramill® m-gin

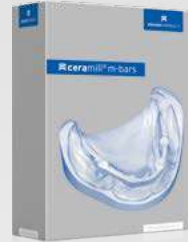
Safe, error-free and in record time to the implant-supported bridge with gingival section.



Upgrade module for implant prosthetics

### ceramill® m-smile

Ceramill M-Smile - the software module for esthetic planning.



Upgrade module for implant prosthetics

### ceramill® m-bars

Design customised Ceramill Sintron (CoCr) or wax bars.



Upgrade module for implant prosthetics

### ceramill® dicom viewer

Communication and visualisation module based on Dicom data.



Upgrade module for full dentures

### ceramill® d-flow

Design of full dentures - precise, customised and aesthetic.



Upgrade module for partial dentures

### ceramill® m-part

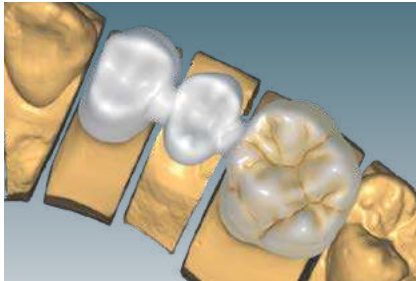
Software module for preparing customised partial denture frameworks.

\*ATTENTION: Commercial use of this software is restricted to FDA compliant workflows or licensed dentists.

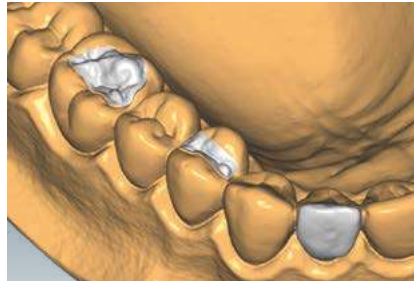


## CERAMILL MIND BASE PACKAGE

### INDICATIONS



**Ceramill Mind**  
Anatomically reduced crowns and bridges,  
fully anatomical crowns and bridges



**Ceramill Mind**  
Inlays, onlays, veneers



**Ceramill Mind**  
Telescope crowns, attachments

### LIBRARY TEETH

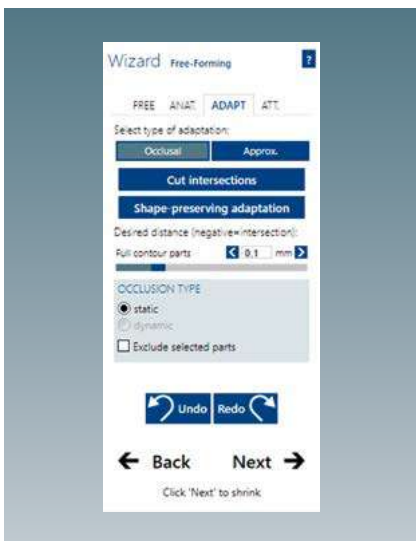


Ceramill Mindforms by AG

**Other libraries:**

- \_AG Generic
- \_VITA Physiodens
- \_Prittidenta

### CERAMILL WIZARD

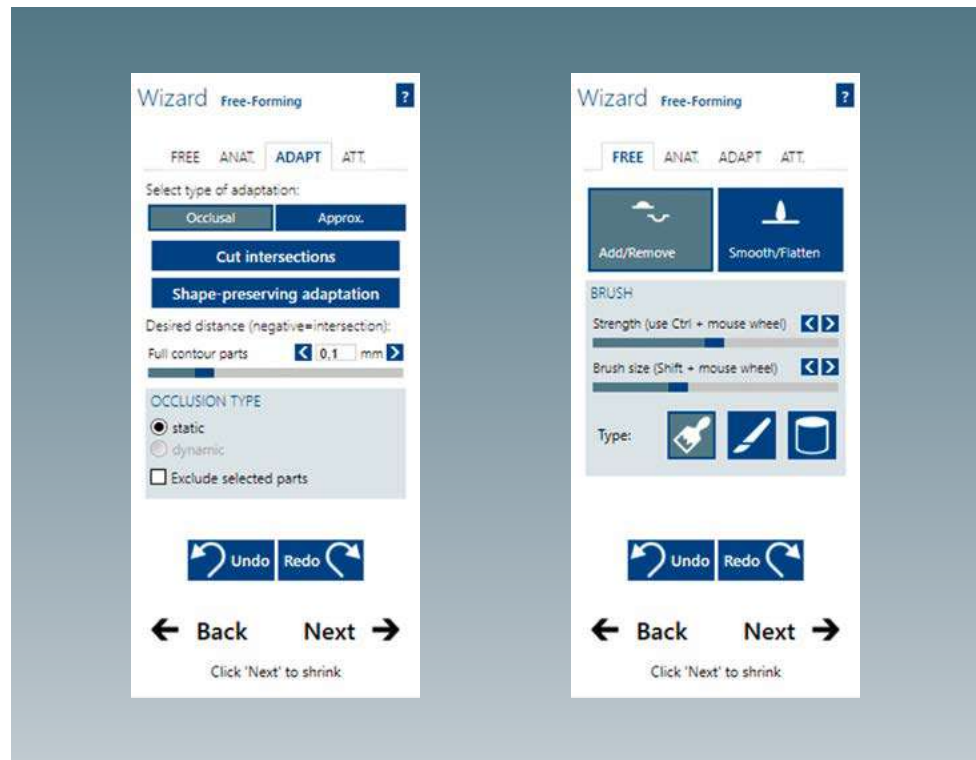


Automatic user guidance through the design process



## CERAMILL WIZARD - DESIGN EASILY, RELIABLE AND EFFICIENTLY.

Ceramill Mind Wizard was developed to orientate the Ceramill Mind user guidance as closely as possible to the dental technology workflow. As a floating window the Wizard not only guides the user accurately and efficiently through the entire design process but also shows the tools available to optimise the design outcome.



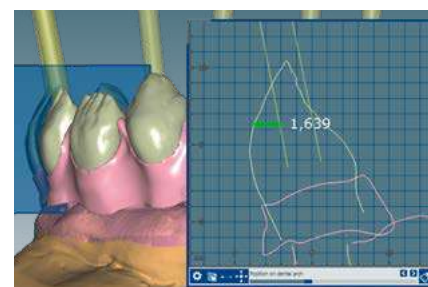
### CERAMILL WIZARD FUNCTIONS



Grid and ruler for better orientation



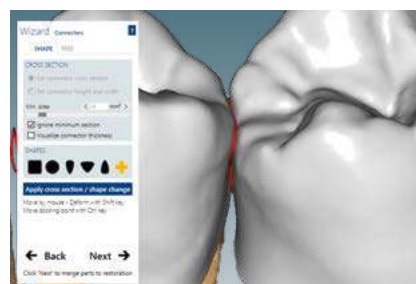
Cutting back selected areas for customised porcelain veneering



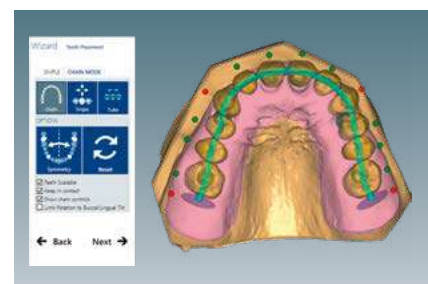
Fading in section plane with measuring instrument for better control of material thicknesses



Copy or mirror teeth to produce a uniform tooth shape/structure in a jaw



Connect contact surfaces with each other for more aesthetic interdental spaces



Move teeth as if splinted for quicker, easier positioning of the teeth

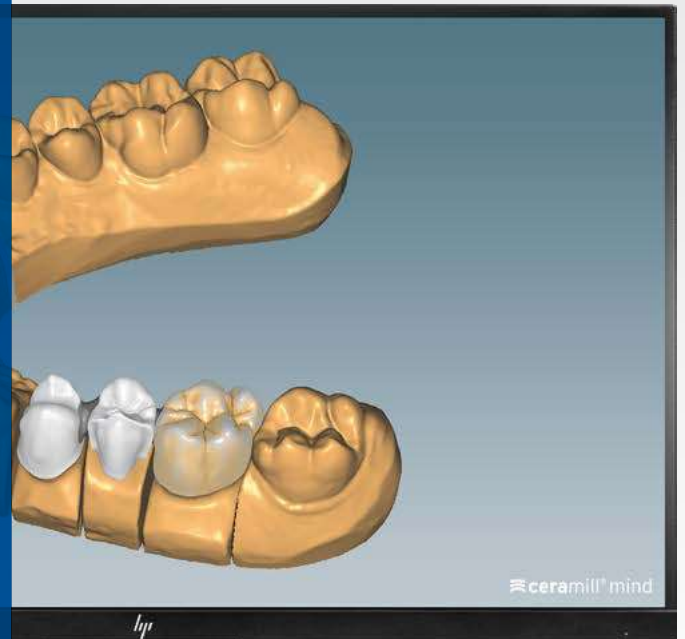
Ceramill Mind is available in the following languages:



## CROWNS AND BRIDGES

### DESIGN CONVENTIONAL STANDARD INDICATIONS PRECISELY AND EFFICIENTLY

Crowns and bridges belong to the conventional standard restorations of every dental or practice laboratory. Crown and bridge restorations in the anterior and posterior regions can be quickly, easily and precisely planned using the diverse functions of the Ceramill Mind CAD software. This includes not only the virtual Artex CR articulator as an indispensable basic tool for the fabrication of interference-free restorations but also the numerous application options of the Ceramill Mind Wizard, which accelerate and simplify the design process and also include reliable preparation margin detection as well as an automatic bridge and connector design. Custom-loadable tooth libraries, e.g. with the Knut Miller teeth from the tooth mould atlas "Individualis naturae dentis" complete the function portfolio for functional and aesthetic crown and bridge prosthetics.

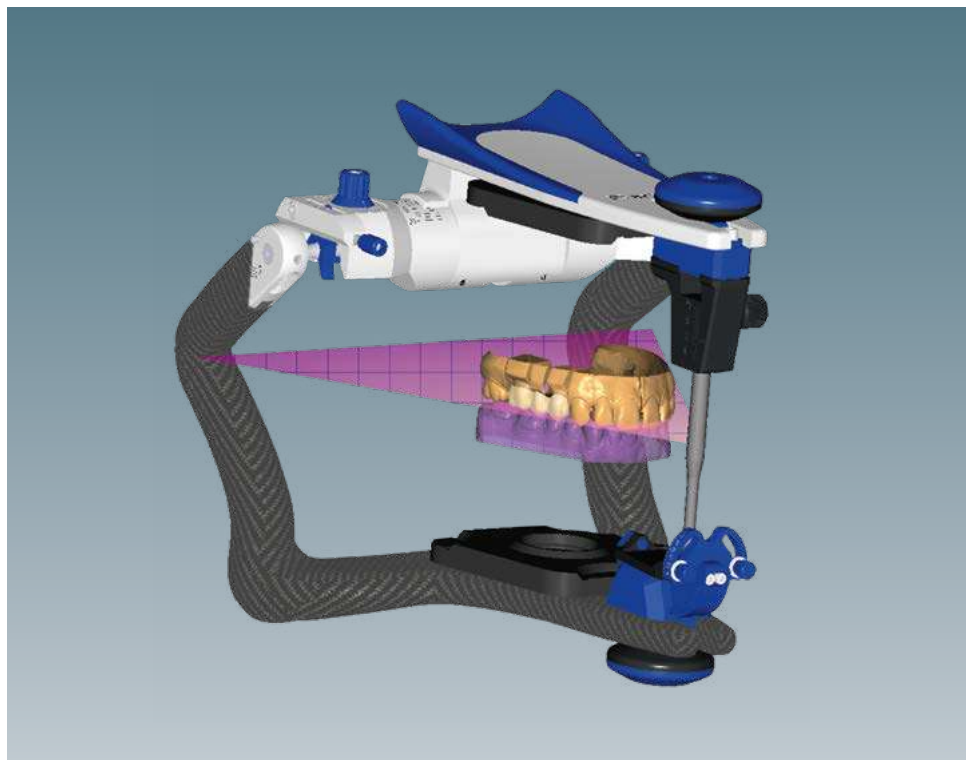




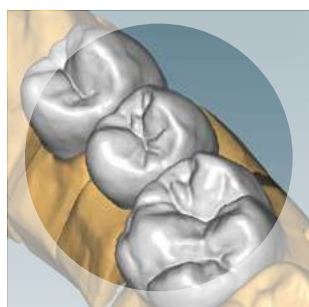


## VIRTUAL ARTEX CR - THE FUNCTIONAL INTERFACE BETWEEN MANUAL AND DIGITAL PROSTHETIC DENTISTRY

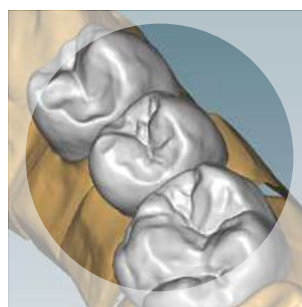
With manual production of dental prosthesis working with the articulator is standard for dental laboratories. In order to achieve the same quality of the works virtually, it is only logical and consistent to enable this by means of a CAD/CAM system. The virtual articulator "Ceramill Artex" serves as a bridge between manual and digital techniques. The model pair in the Artex articulator is transferred to the Map 600+ -scanner while holding the same Artex mode by means of the Ceramill Transferkit; it is subsequently scanned-in in the appropriate proportion. The movement options of the Artex CR are thus synchronised digitally and manually. Interfering structures can already be removed, reducing time-consuming grinding in at the chair-side to a minimum.



- \_The virtual articulator offers the same functional scope as compared to the real Artex CR**
- \_The transfer of the models by means of the Ceramill Fixator ensures the precision at the functional interface between manual and digital techniques**
- \_The calculation of the fully anatomical construction is dynamic and static under consideration of the antagonists and the adjusted values of the articulator**
- \_Space for the veneering porcelain is automatically planned during the design - guarantees an optimum framework base for a veneer with high stability and uniform layer thickness**



Fully anatomical design without a virtual articulator



Fully anatomical design with a virtual articulator



Adjustment modes at the virtual Artex CR



# STEP-BY-STEP

The Ceramill Artex virtual articulator offers exactly the same setting options as the manual version (Artex CR articulator). The articulator can be set in the same way as the original using a software mask. Adjustments to the articulator setting are completed onscreen and animated in real time on the Ceramill Artex. This enables an immediate visual control of the settings and therefore makes the virtual articulator "functional".



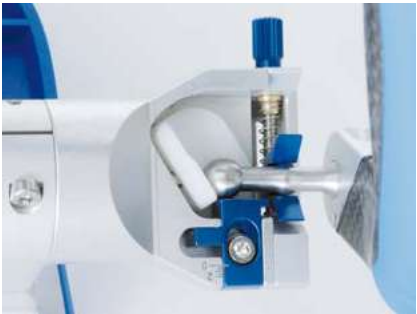
A) Condyle actual Artex CR



B) Condyle virtual (0 degrees)



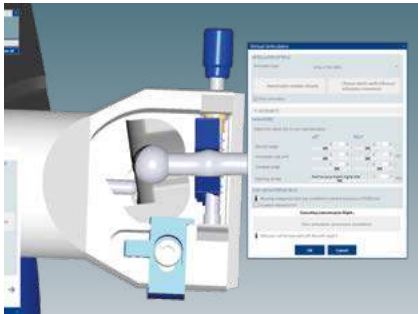
C) Condyle virtual (30 degrees)



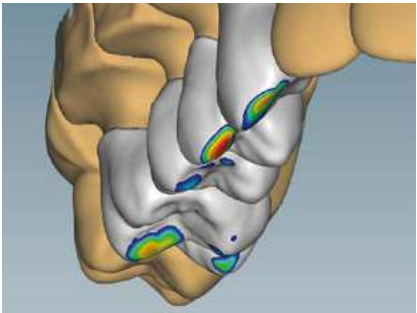
A) Artex CR condyle in centric position viewed from below



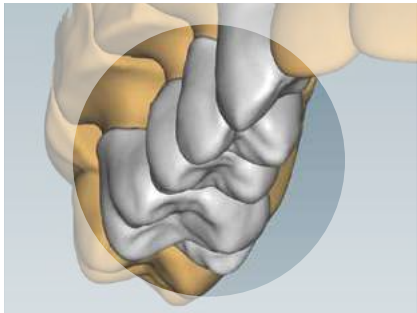
B) Virtual Artex CR condyle in centric position as starting point for each excursion



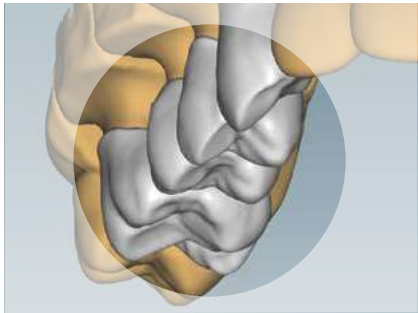
C) Artex CR condyle in (animated in real time) lateral excursion



A) The CAD design with visual marking of contact and penetration areas to the opposing model before use of the virtual articulator (calculation of the dynamics)



B) Ceramill Artex in function - static reduction of the CAD design in the functional surfaces



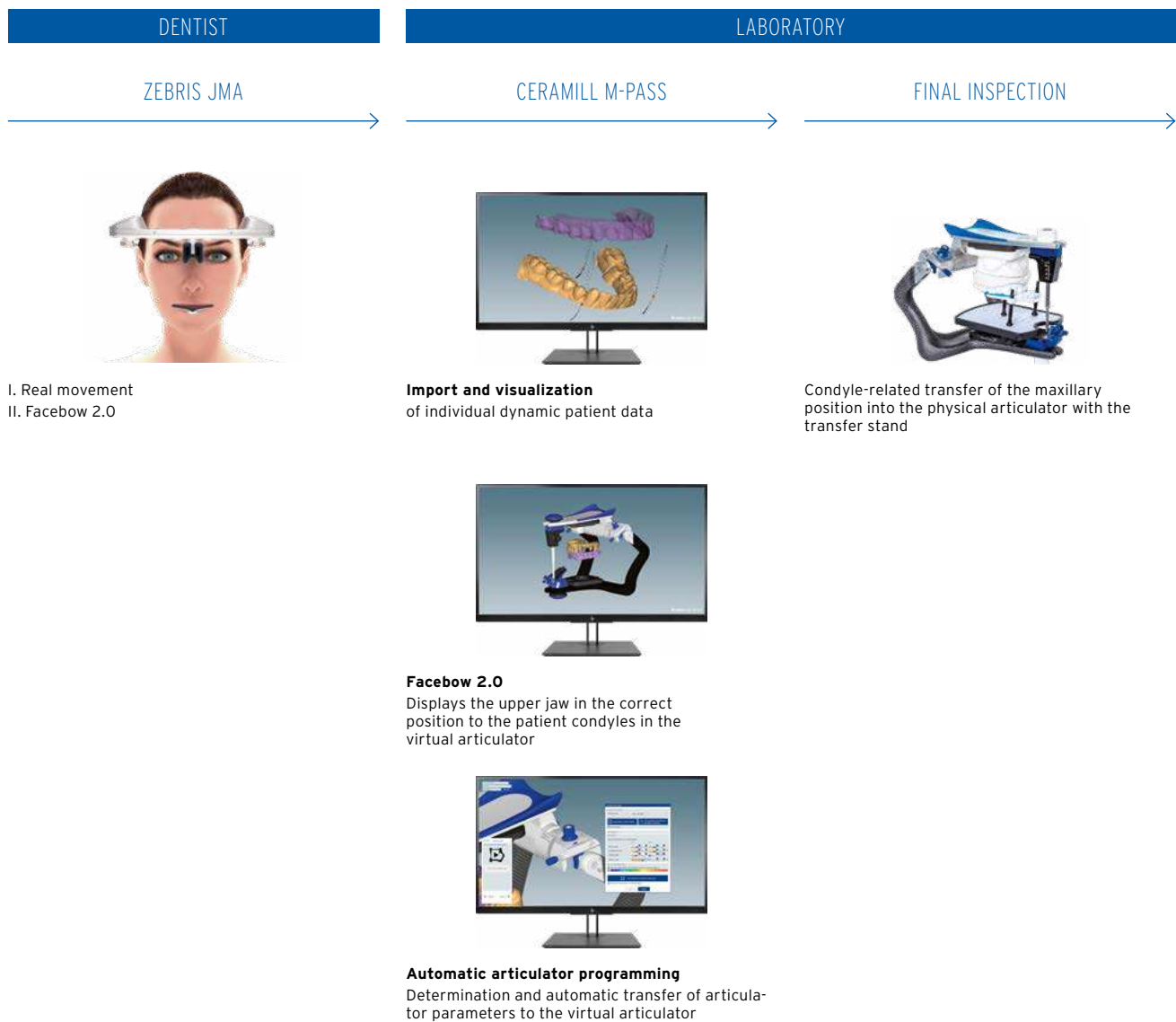
C) The result of the dynamically automated operation of the Ceramill Artex





## DIGITAL FACEBOW - NOW INTEGRATED 100 % - FROM THE DENTAL PRACTICE STRAIGHT TO THE LABORATORY

zebris for Ceramill can be used as a digital facebow, but offers numerous other functions in addition. Thus the JMA Optic system forms the basis for virtually any indication - from single restorations to scanning model-free with an intraoral scanner as well as large-span restorations or splints. The automatic data transfer to the Ceramill System and the resulting direct transfer into the articulator, allows zebris for Ceramill to be ideally integrated into the daily workflow and reduces manual post-processing of the restoration. Overall, the result is a simple, safe workflow that can be used profitably in everyday work.



- \_ 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



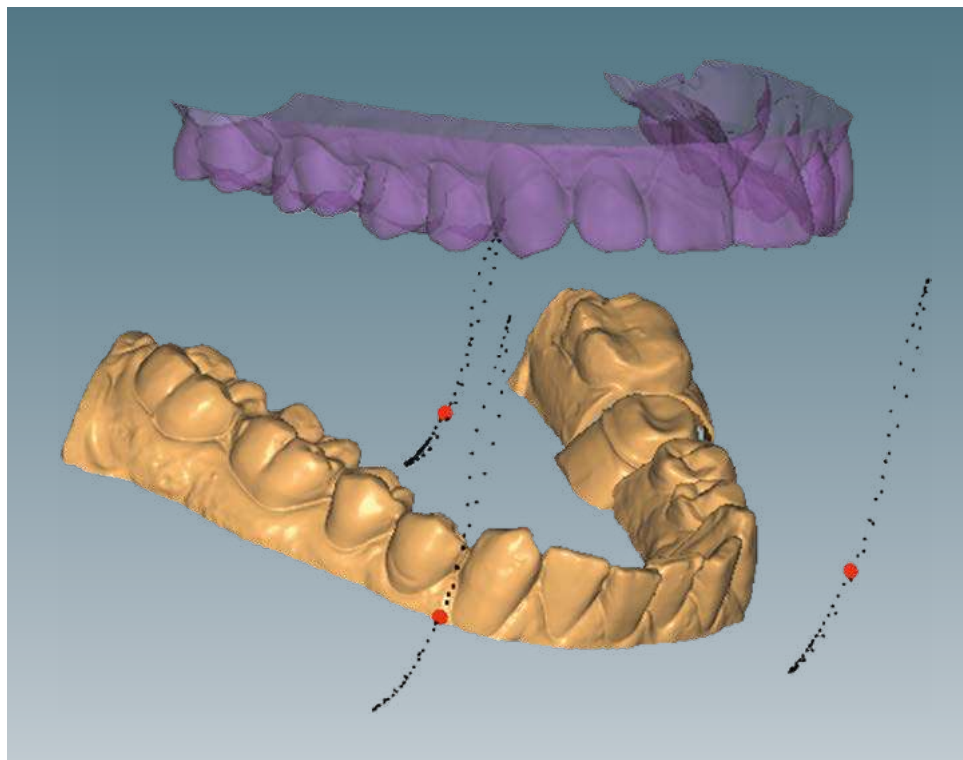
## IMPORT MODULE FOR JAW MOVEMENT DATA FROM EXTERNAL SYSTEMS

The Ceramill M-Pass software upgrade module offers the possibility of transferring complex temporomandibular joint movements exactly into digital form.

With the Ceramill M-Pass software upgrade module, the data output from Zebris for Ceramill and Prosystem is imported into the Ceramill system and processed without any losses.

By importing the data, the virtual articulator CR is automatically programmed and the patient-specific individual jaw movements can be simulated.

In addition, Zebris for Ceramill fully integrates the digital facebow into the Ceramill system. By importing the Zebris data, the models are automatically placed in the correct position in the virtual articulator.

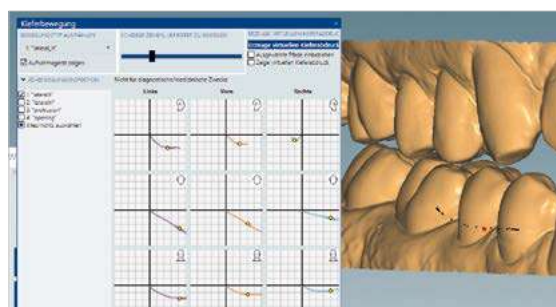


- \_Ideal transfer of complex temporomandibular joint movements into the digital design**
- \_Situation transmission through special bite fork**
- \_Perfect bite situation due to coordinated system from recording to try-in**
- \_Compatible with Zebris for Ceramill or Prosystem**
- \_The digital facebow is completely integrated into the Ceramill System with Zebris for Ceramill**

More about Zebris for Ceramill on pages 16-17



Zebris for Ceramill



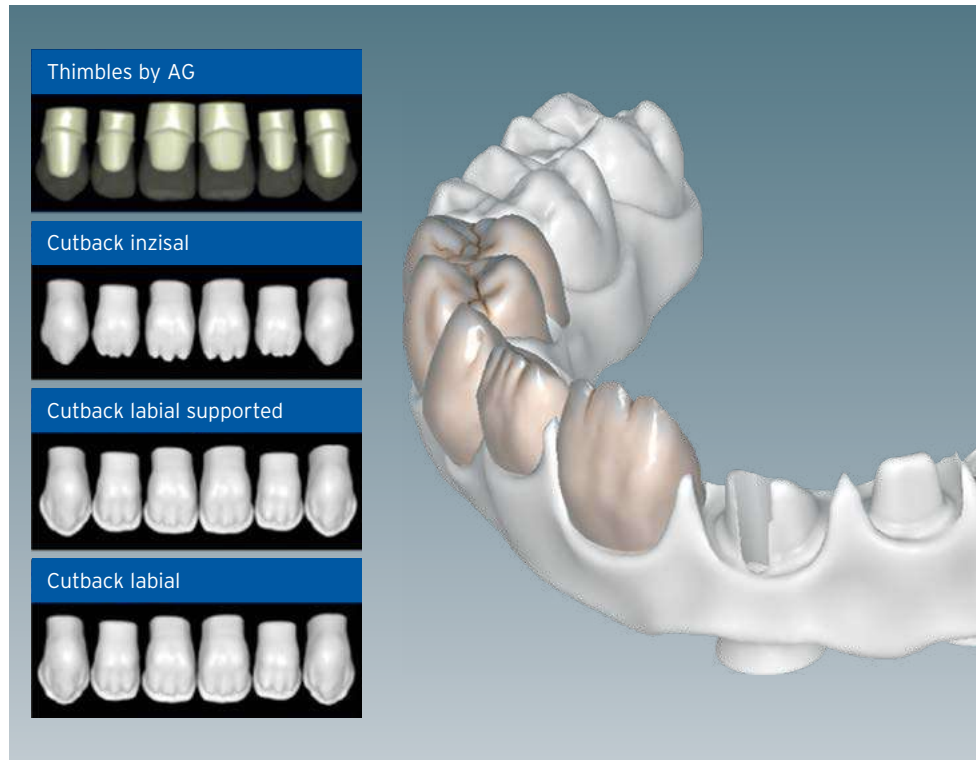
Ceramill M-Pass



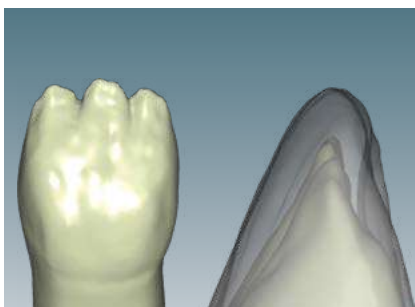


## CERAMILL LIBRARY TEETH WITH CUTBACK SHAPES AND AN OPTIMIZED THIMBLE LIBRARY

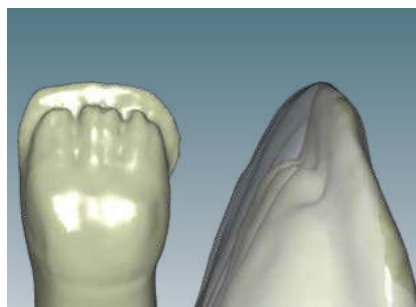
Based on his bestseller, the tooth shape atlas "individualis naturae dentis", dental technician Knut Miller has developed library teeth for the Ceramill Mind software, which are specifically tailored to the needs of CAD design. "Ceramill Mindforms 2.0" including cutback tooth shapes and an optimized Thimbles Library form a valuable basis for the construction of reduced or fully anatomical dentures as well as a stump library for highly profitable All-on-X work meeting the highest functional and esthetic aspects. The characteristic and natural surface morphology and topography as well as the fine details of the library teeth significantly facilitate and accelerate the design of occlusal surfaces and fissures.



- \_ Create highly esthetic restorations safely and easily - no special anatomical knowledge required**
- \_ High time and cost savings through reproducible esthetics without costly free-forming processes**
- \_ Tooth shapes of high natural authenticity through finest details and structures**
- \_ Effortlessly simple and wizard-guided to a highly profitable All-On-X restoration through the optimized Thimbles by AG stump library**



Incisal cut-back



Labial cut-back



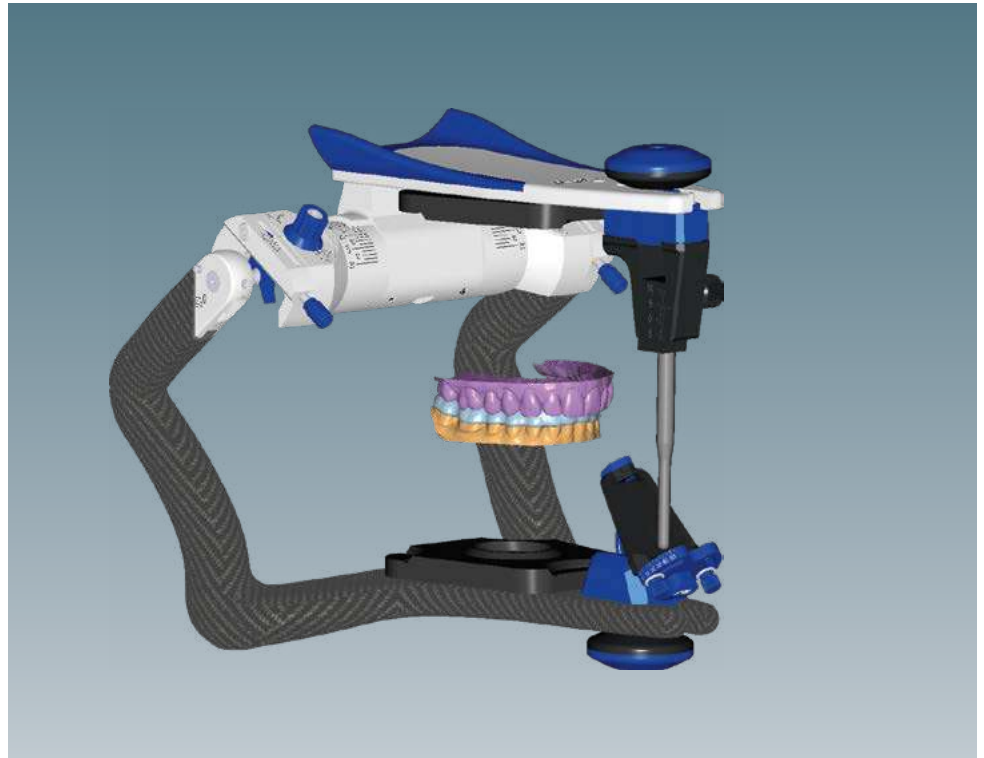
Labial-supported cut-back



## THERAPEUTIC SPLINTS - FUNCTIONAL AND ACCURATELY FITTING

The Ceramill M-Splint was specially developed for the fabrication of customised therapeutic splints, which can be fabricated accurately fitting with interference-free functionality with the aid of the Ceramill Artex articulator. Once the design is complete, the splints can be fabricated from Ceramill Splintec PMMA blanks using Ceramill 5X milling machines.

As a Class 2a medical device Ceramill Splintec is suitable for long-term use.



- \_High saving in time and process reliability due to digitally predictable, reproducible results and controllable design parameters**
- \_Industrially prefabricate material with a high surface quality reduces discoloration and plaque accumulation to a minimum**
- \_Individually adjustable design parameters reduce manual finishing work**
- \_Precise occlusal contacts ensure functional splint design**
- \_Maximum convenience: Time-consuming manual fabrication is no longer required - this prevents the associated harmful vapours**



Easy, reproducible splint fabrication using Ceramill CAD/CAM



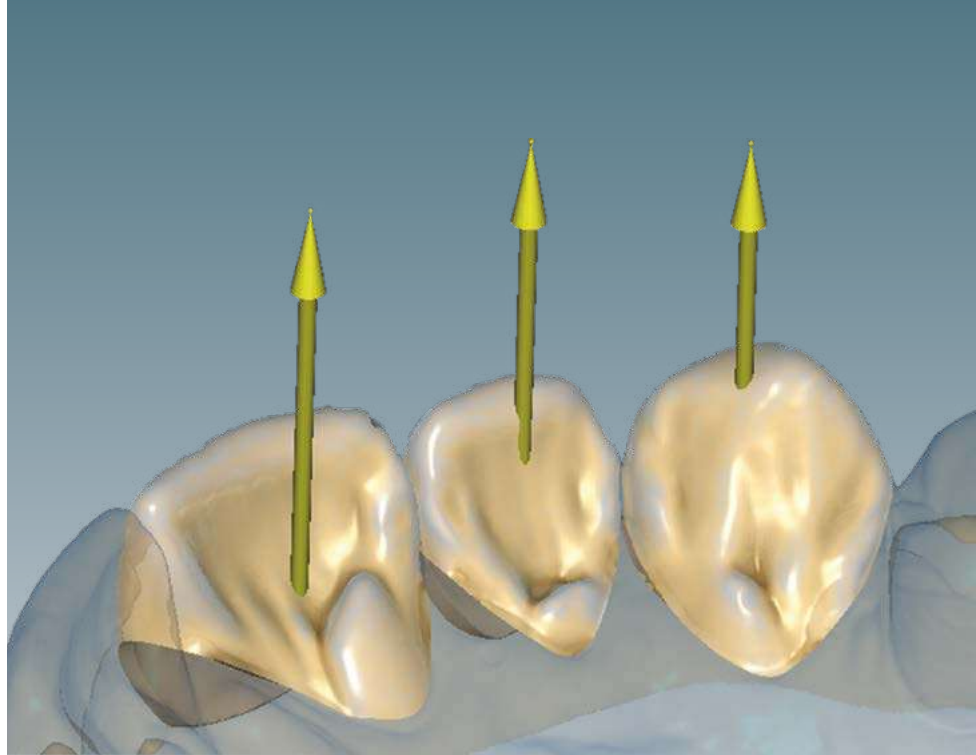
Ceramill Splintec therapeutic splints - accurately fitting and interference-free



## AESTHETICALLY HIGH-QUALITY TEMPORARY EGGSHELL RESTORATIONS FOR IMMEDIATE TREATMENT

Ceramill Microshell is an upgrade module for the fabrication of thin, patient-specific temporary eggshell restorations as aesthetic, high-quality immediate treatment even before preparation.

A virtual preparation margin is defined paragingivally on the as yet unprepared teeth on the scanned anatomical model. The temporary restoration designed later is produced as a shell of uniform thickness and the outer form of the unprepared tooth of the patient situation or library teeth. The final temporary restoration can be quickly fabricated with the aid of the temporary eggshell restoration immediately after preparation.

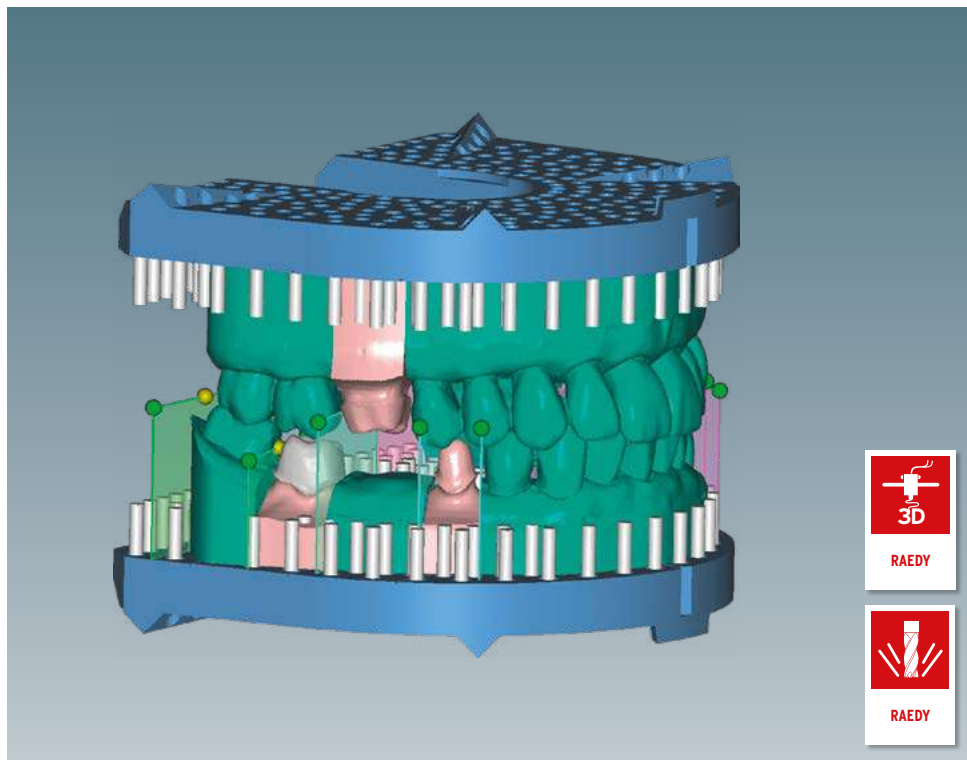


- \_Easy, quick fabrication of aesthetically high-quality, very thin temporary eggshell restorations**
- \_Patient-specific fabrication of temporary restorations is possible even before preparation**
- \_Design requires minimum time**

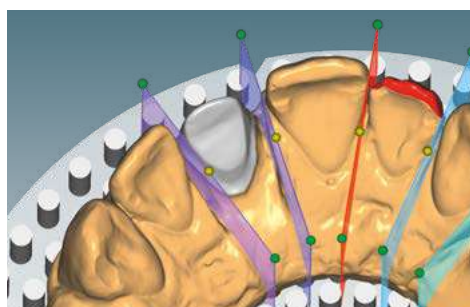


## DIGITAL MODEL FABRICATION

Ceramill M-Build is a software module for digital model fabrication based on intraoral scan data. The Ceramill Mind upgrade is always used to full effect if indications require manual working stages or controls using a model. Without loss of precision and using the method familiar from the manual working technique, Ceramill M-Build ensures the fabrication of interference-free sectioned models using CAD/CAM and integrates seamlessly into the existing process chain of Ceramill system components. Implementation of the milled models is performed with Ceramill M-Plast - a special modeling resin for Ceramill CAD/CAM. Implementation of the printed models is performed with the 3D Print Material NextDent Model 2.0.



- \_Maximum comfort through simple and fast fabrication of high-precision 3D printed models or milled saw-cut models**
- \_Increase in quality due to reduction in the sources of errors, e.g. plastic deformation of the impression material, plaster expansion**
- \_Seamless, digital workflow ensures efficient, cost-effective working processes with maximum value creation**
- \_No waiting times due to external production**



Place virtual saw cuts



Printed models with removable stumps



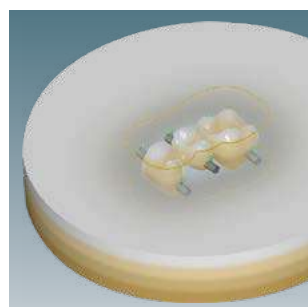


## CERAMILL M-SMILE - SOFTWARE MODULE FOR ESTHETIC PLANNING

The Ceramill M-Smile software upgrade module in combination with the Ceramill Mind design software now allow esthetic planning, CAD design and fabrication 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. This allows using Smile Design as starting point for any type of digital dental indication.



- \_ Visualization of the final restoration already before fabrication of the denture**
- \_ Increases the satisfaction and acceptance of the patient by transferring esthetic planning into real life pictures**
- \_ The inclusion of facial proportions as well as predefined auxiliary lines simplifies esthetic planning**
- \_ Automatic transfer into 3D design and the wizard guided Ceramill workflow for maximum comfort**
- \_ Full flexibility: Applicable for all available indication types**



View of the shade gradient when nesting using Ceramill TruSmile



Preview of final situation

## FULL-DENTURE PROSTHETICS

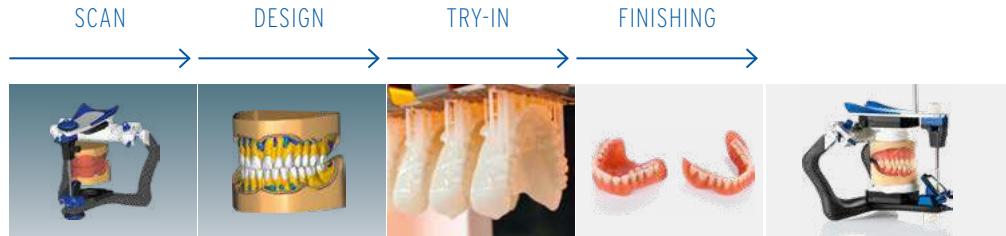
 **ceramill®** aps

### CERAMILL ADVANCED PROSTHETICS SOLUTIONS.

Digitalization of dental restorative workflows is still rapidly driving changes in the dental lab business. Crowns and bridges are for the most part fabricated almost entirely digitally these days. This means that it is increasingly important that laboratories extend their digital workflows to include more complex restorations such as full arch implants and full dentures. Since its inception, Amann Girrbach has been a pioneer of the digital in house movement in the laboratory. With the "Ceramill Advanced Prosthetics Solution", Amann Girrbach rockets digital dental workflows to the next level. The Ceramill Advanced Prosthetic Solutions Program currently covers three complex indications that are fully integrated into the Amann Girrbach CAD/CAM-System and provide customers with a smooth, easy, and reliable workflow.



# FULL DENTURE PROSTHETICS PROCESSES IN THE CERAMILL SYSTEM



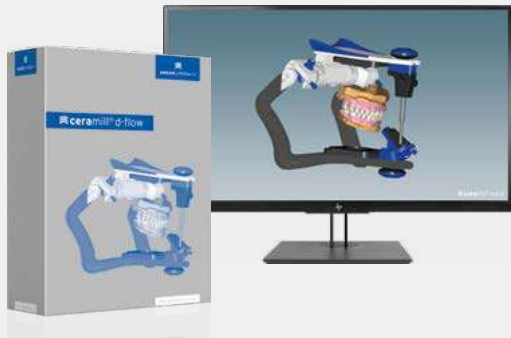
CUSTOMIZED AND EFFECTIVE	   	PRINTED	SCANNING IN THE CORRECT POSITION	DESIGN CERAMILL D-FLOW	DIGITAL FABRICATION	<p>APPLICATION OPTIONS</p> <b>Full dentures</b> (maxilla and mandible)
	 in the  system	MILLED	SCANNING IN THE CORRECT POSITION	DESIGN CERAMILL D-FLOW	DIGITAL FABRICATION	<p>APPLICATION OPTIONS</p> <b>Single jaw dentures</b> (maxilla and/or mandible)
	 Baltic Denture System in the  system	MILLING	SCANNING IN THE CORRECT POSITION	DESIGN <sup>BD</sup> Creator® PLUS	not required (bite registration and functional try-in has already been done during first chairside appointment based on the use of <sup>BD</sup> KEY® Set)	DIGITAL FABRICATION

# SOFTWARE AND HARDWARE COMPONENTS FOR THE CERAMILL FDS

Full-denture prosthetics ▶

## ceramill® d-flow

Design of full dentures taking all functional and aesthetic parameters into consideration.



Full-denture prosthetics ▶

## ceramill® motion 2 5X ceramill® matik

5-axis hybrid system for wet and dry processing.

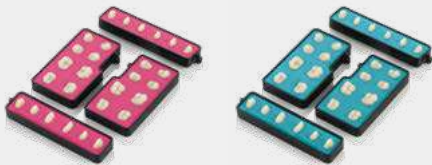


Full-denture prosthetics ▶

## ceramill® d-set

Patented denture tooth blanks with commercially available, high-quality denture teeth and Ceramill D-Wax blank for fabricating the wax base.

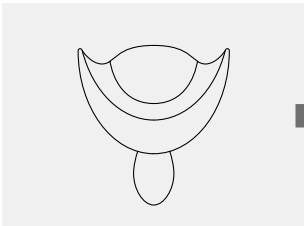
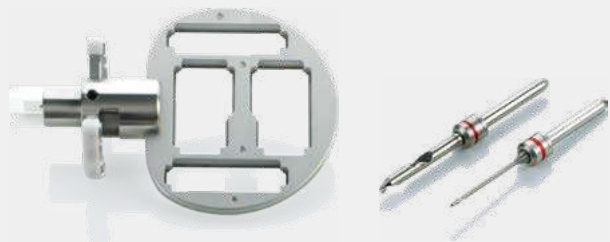
VITA VIONIC® SOLUTIONS



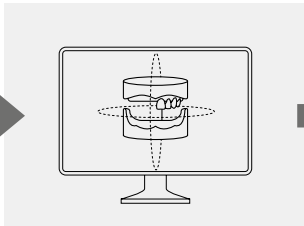
Accessories ▶

## Accessories

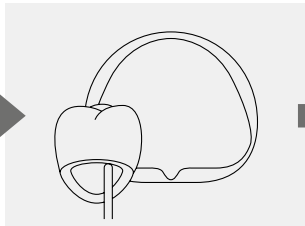
Blank holders and milling tools for perfect fabrication.



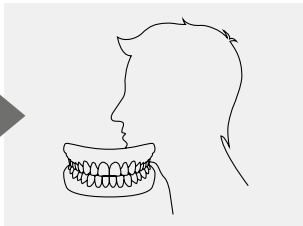
Impression taking and digitisation of patient data



Model scan and functional design



Milling the wax base / adapting the tooth bases and if necessary, the occlusion.



Functional denture with possibility of conversion





# VITA VIONIC - OFFICIAL CERAMILL CAD/CAM SYSTEM PARTNER



- \_Time saving:** Full dentures 100% digital, no manual pressing procedure
- \_Safety:** Try-in at the patient mouth using the monoblock denture feature
- \_Full denture knowledge integrated:** 4 different setting up concepts available in the CAD software
- \_Highly individual:** Position of denture teeth can be customized in the CAD Software
- \_Process safety:** 100% integrated in Ceramill FDA for a smooth workflow
- \_Quality:** Due to minimal residual monomer of the resin denture bases



VITA VIONIC Frames



VITA VIONIC Wax for the try-in and VITA VIONIC Base for the resin denture base



VITA VIONIC Bond - Fixation components for denture teeth and VMLC Flow finishing components

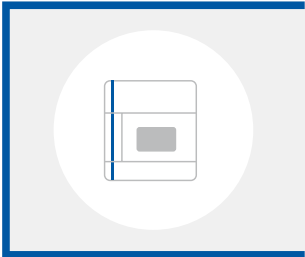
BALTIC DENTURE SYSTEM - OFFICIAL CERAMILL CAD/CAM SYSTEM PARTNER

PRACTICE & PATIENT

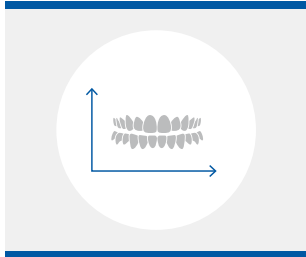
DENTAL LAB



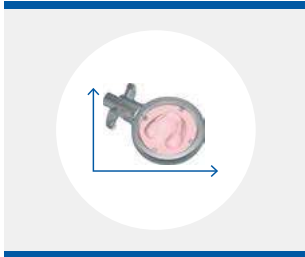
Functional impression, bite registration and transfer, all in one with the <sup>BD</sup>KEY® Set



Ceramill DB  
Ceramill Map 400/600



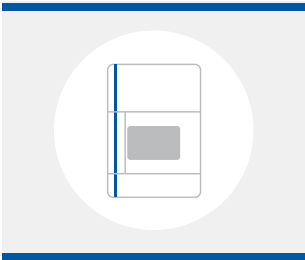
<sup>BD</sup>Creator® PLUS



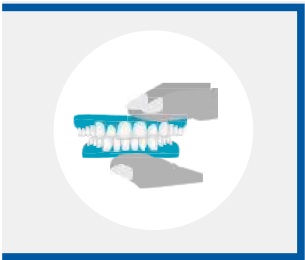
Ceramill Match 2

DENTAL LAB

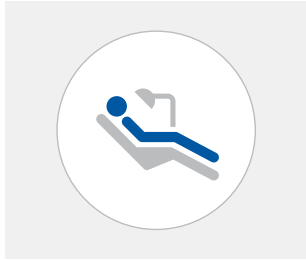
PRACTICE & PATIENT



Ceramill Motion 2 5X



Finishing



Fitting



Dentist Set: BD-Key-Set, <sup>BD</sup>Key® PMMA, <sup>BD</sup>Impress®



Scan holder for Ceramill Map 400  
Blank holder for Ceramill Motion 2 5X



<sup>BD</sup>Creator® PLUS - CAD Software



<sup>BD</sup>Loads® -prefabricated denture blanks



## INDIVIDUAL DIGITAL PARTIAL DENTURE FRAMEWORKS

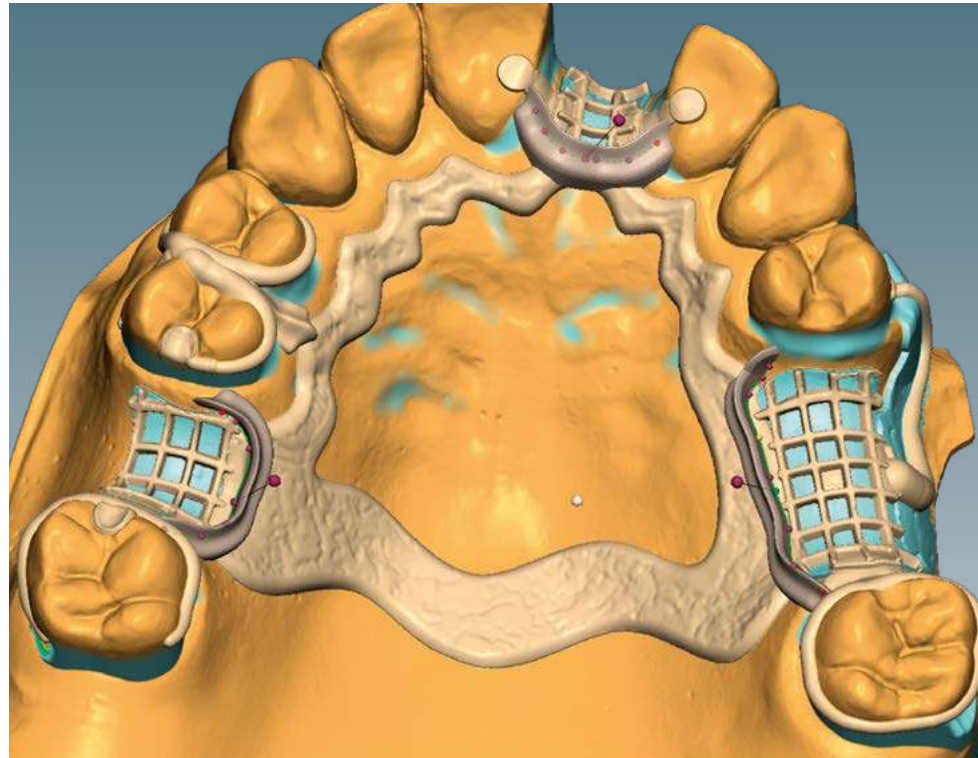
The Ceramill M-Part software module was developed specifically for preparing customized partial denture frameworks for the milling and printing process.

The dental technician's dental experience is transferred directly into the digital environment, making the laboratory workflows considerably easier.

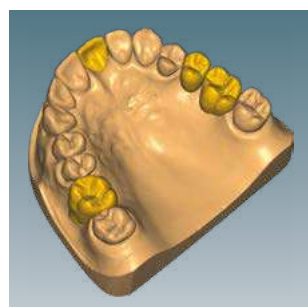
The coordinated workflow in the Ceramill Mind and the option of digital backward planning lead to a perfect design of the frameworks for partial dentures.

Blocking of undercuts is performed automatically and at the push of a button. The connectors and clasp arms are created according to individual parameters, thus offering greater process safety in the laboratory.

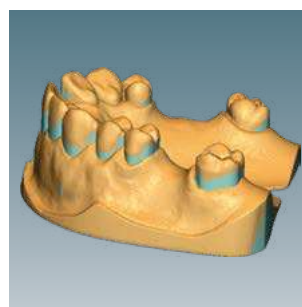
Retention grids are automatically blocked with a defined value and are therefore optimally prepared for later completion in resin.



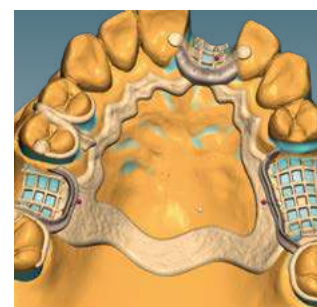
- \_High time gains through automatic blocking of undercuts at the push of a button and reproducibility just-in-time**
- \_Economic efficiency in the laboratory - fabricating frameworks for partial dentures digitally without great effort at good prices**
- \_Process safety & efficiency through matched workflow and easy-to-check design results**
- \_Digital backward planning offers a high safety level for framework design**



Virtual backward planning



Precise identification of the prosthetic equator and the thus resulting undercuts as well as automatic blocking of the undercuts in defined insertion direction



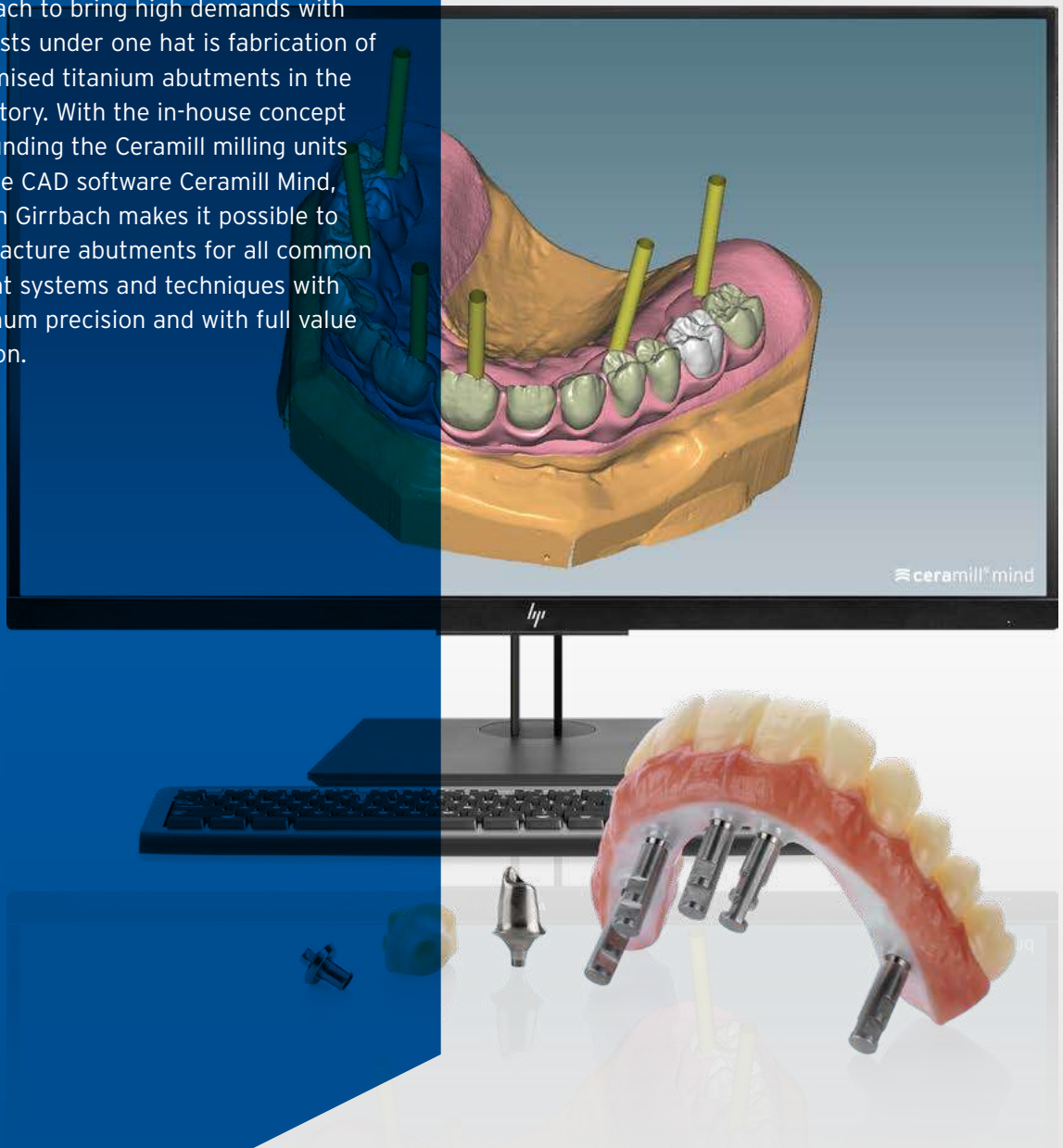
Optimal clasp and connector design as well as easy profile design of the transition between metal and acrylic

## IMPLANT PROSTHETICS

**ceramill® aps**

FABRICATION OF  
CUSTOMISED ABUTMENTS,  
SCREW-RETAINED BRIDGES  
AND BAR CONSTRUCTIONS.

Increased demands on aesthetics and quality of life ensure unabated continuing advances in implantology. An ideal approach to bring high demands with low costs under one hat is fabrication of customised titanium abutments in the laboratory. With the in-house concept surrounding the Ceramill milling units and the CAD software Ceramill Mind, Amann Girrbach makes it possible to manufacture abutments for all common implant systems and techniques with maximum precision and with full value creation.





## CERAMILL IMPLANT PROSTHETICS UPGRADE MODULES

Upgrade module ▶

### ceramill® m-plant\*

Fabricate customised abutments and screw-retained bridges digitally using the Ceramill system.



Upgrade module ▶

### ceramill® m-gin

Fabricate an implant bridge with gingiva section reliably, quickly and very easily.



Upgrade module ▶

### ceramill® m-bars

Design customised bars made from Ceramill Sintron (CoCr) or wax.



Accessory ▶

### Accessories for implant prosthetics

Titanium bases for individual single abutments and multi-pontic, screw-retained restorations as well as titanium abutment blanks for all common implant systems.

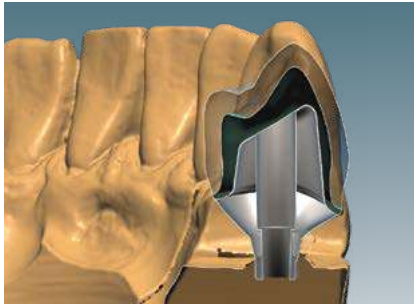


Accessories for the fabrication of implant-supported restorations can be found in our "Ceramill Implant Prosthetics" catalogs or online at [www.amanngirrbach.com/downloads](http://www.amanngirrbach.com/downloads)



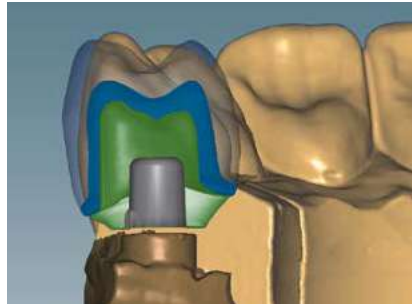
## CUSTOMISED IMPLANT ABUTMENTS FOR ALL CONVENTIONAL SYSTEMS AND TECHNIQUES

Ceramill M-Plant is an upgrade module for the Ceramill Mind design software and upgrades it with the function to design customised titanium and hybrid abutments as well as customised, screw-retained bridges on conical titanium bases made from zirconium oxide, CoCr sinter metal, PMMA (stained), wax, titanium, CoCr (milled). Corresponding libraries of all common implant systems are available for Ceramill M-Plant, which are continuously being expanded.



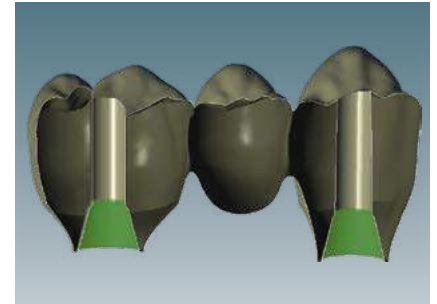
### CUSTOMISED, ONE-PIECE TITANIUM ABUTMENTS

Fabrication of individual, one-piece titanium abutments in the Wizard guided Ceramill workflow.



### CUSTOMISED HYBRID ABUTMENTS

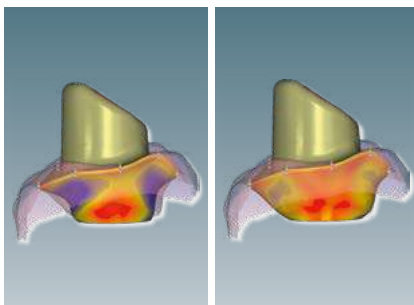
Fabrication of individual abutments on titanium bases.



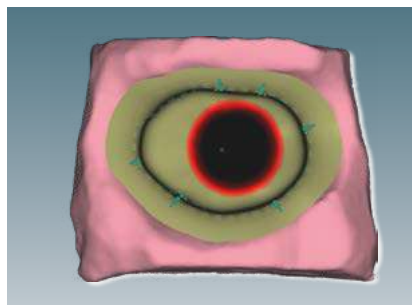
### MULTI-UNIT, SCREW-RETAINED BRIDGES AND BAR CONSTRUCTIONS

Fabrication of multi-pontic, screw-retained bridges and bar constructions on titanium bases.

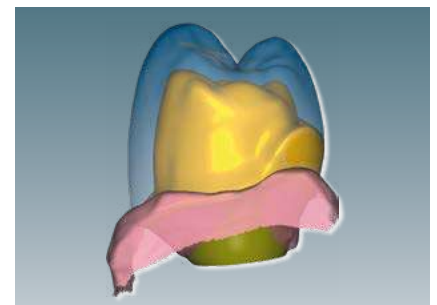
The clearly structured design of the user interface enables an effortless and easy construction of abutments and bridge restorations. The different functions available for the free and flexible design of abutment and emergence profile provide a high degree of freedom for the customised design and natural aesthetics of the final restoration.



Customised adaptation of the gingival emergence profile.



Contouring of abutments with rotational security and analogous to the shape of the natural tooth.



Possibility of automatic, customised design of the collar for supporting the porcelain.

ATTENTION: Commercial use of this software is restricted to FDA compliant workflows or licensed dentists.

Accessories for the fabrication of implant-supported restorations can be found in our "Ceramill Implant Prosthetics" catalogs or online at [www.amangirrbach.com/downloads](http://www.amangirrbach.com/downloads)

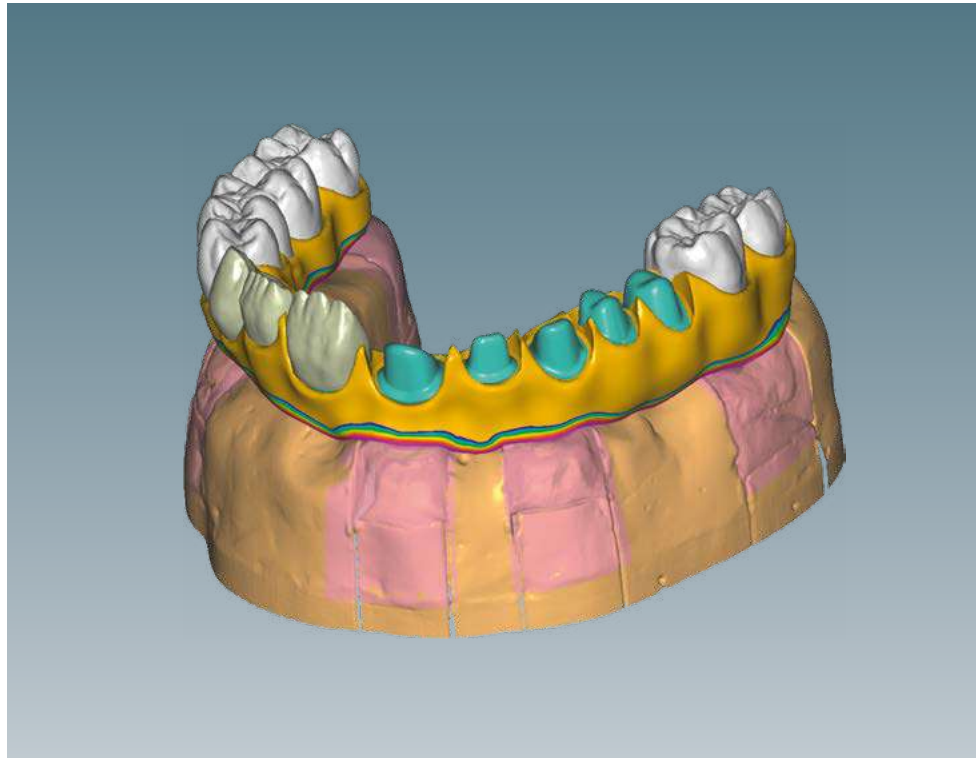


## REAX FULL CONTOUR & HYBRID - THE SAFE, FAST, DIGITAL AND EASY ROUTE TO THE SCREW-RETAINED BRIDGE WITH GINGIVA PORTION

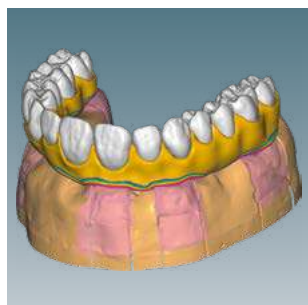
With the Ceramill M-Gin software module, it is possible to design the supra-construction as well as the individual crowns in only a single software step and without manual post-finishing within a coordinated and validated digital workflow. The combination of specially coordinated design parameters and a variety of validated materials make this Ceramill workflow unique. With the Ceramill Mindforms digital tooth library, which includes a Cutback as well as an optimized Thimble Library, all conceivable design variations can be reliably produced in first-class quality, regardless of whether they are monolithically, anatomically or vestibularly reduced.

REAX Full Contour - enables full zirconia frames with a large span and gingiva to be fabricated using the high-strength yet highly esthetic zirconia Zolid HT+ / Zolid Gen-X. The automatic cutback option and 5-axis ultra high definition milling machines provide for an unmatched esthetic appeal.

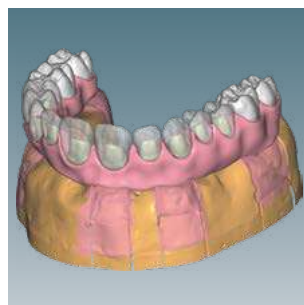
REAX Hybrid - with an unmatched variety of design options as well as validated materials and in cooperation with leading industry partners, REAX Hybrid represents the next level of advanced CAD/CAM in the Ceramill System.



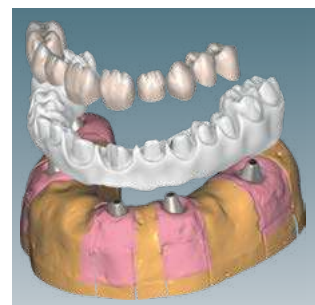
- \_ Highly profitable restorations with maximum individuality in record time**
- \_ Matched processes and materials create maximum safety and efficiency**
- \_ Special design parameters and validated milling strategies reduce rework to a minimum**
- \_ No limits for individual esthetic, therapeutic and efficiency requirements**



Setup of the teeth and free forming of the gingival regions



Automatic cutback and Thimble function

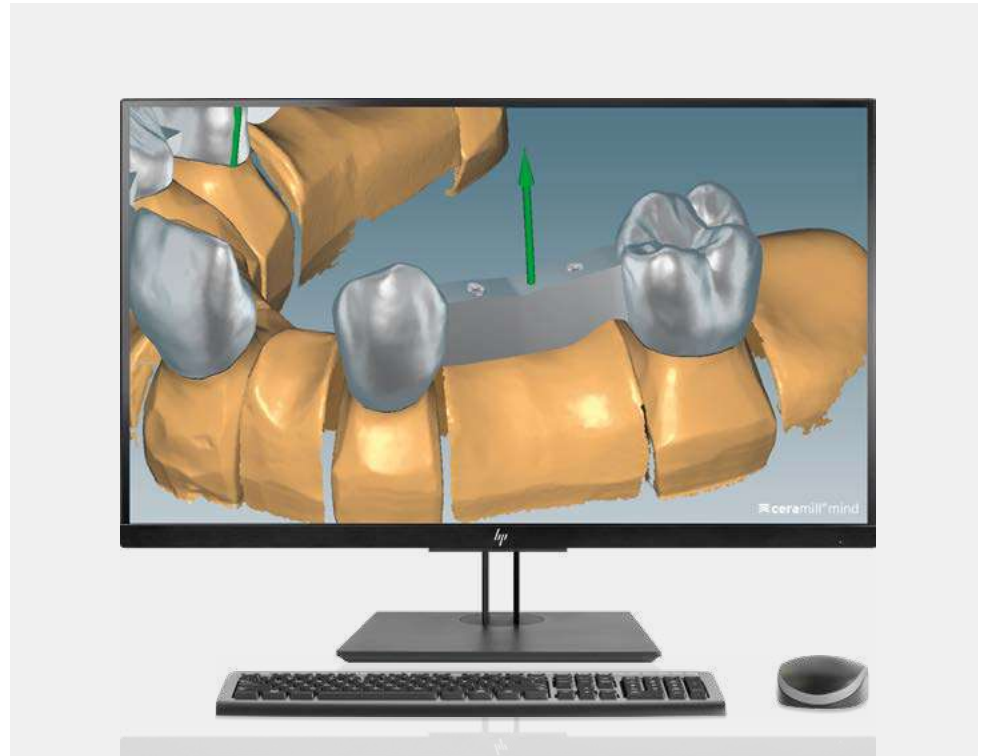


Designing the supra-construction and the individual crowns in a single step



## INHOUSE FABRICATION OF CUSTOMISED BARS MADE FROM CERAMILL SINTRON (CoCr) OR WAX

Ceramill M-Bars enable fabrication of customised bars made from Ceramill Sintron or Ceramill Wax. Very different bar designs, placement of attachments and retention as well as punching out of holes can also be implemented. The bar can then be fabricated inhouse using 5-axis milling machines.

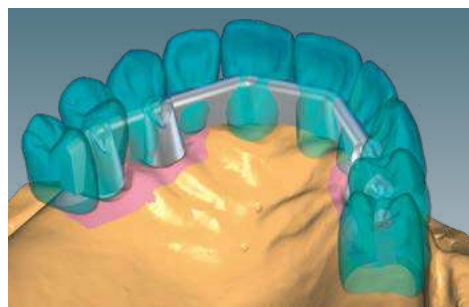


**\_Precise and efficient in-house fabrication of stress-free, implant-supported screw-retained bars on titanium bases**

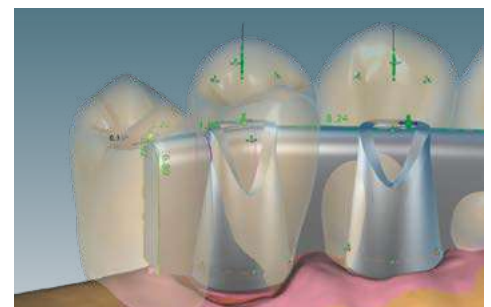
**\_Great saving in time due to direct influence on the cross section, shapes and geometries of the bars during the design - no time-consuming manual modelling required**

**\_Diverse design and customisation possibilities due to freely adjustable parameters, e.g. height, thickness, lingual and buccal angle, minimum height and thickness**

**\_Process reliability because of predictable, reproducible results thanks to digital fabrication and controllable design parameters**



Situ scan ensures easy bar positioning



Custom-adjustable parameters such as height, thickness, lingual/buccal angle, minimum height/thickness and other diverse customisation options



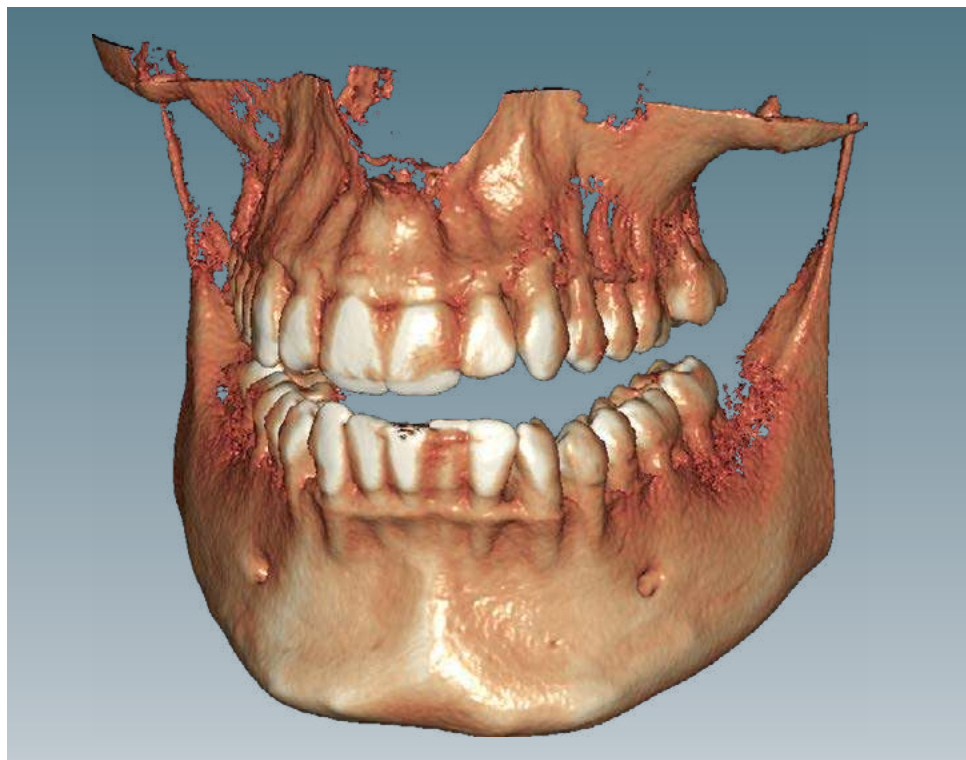


## VISUALISATION AND COMMUNICATION SOFTWARE BASED ON DICOM DATA

The Ceramill Mind upgrade module “Ceramill Dicom Viewer” is a visualisation and communication software. It enables data from CT or CBCT machines (Dicom format) to be imported, displayed and merged with STL data. The visualisation of superficial and deeper-lying anatomical structures of the patient, which this makes possible, enables easier, more precise communication between the dentist and laboratory.

Patient data stored as an STL data set can be accessed in the Ceramill Mind for control or information, e.g. during the design of abutments.

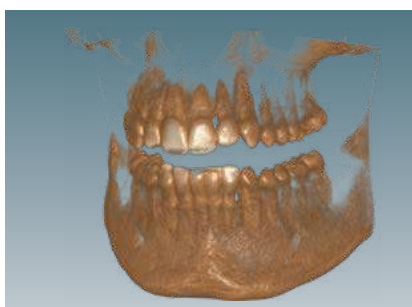
The Dicom Viewer is not intended for diagnostic or medical purposes.



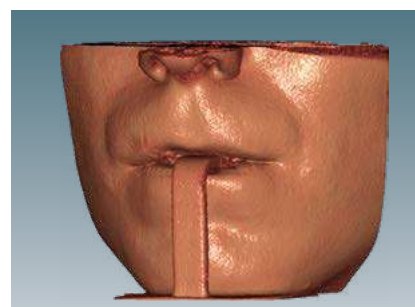
- \_ Visualisation of Dicom formats and merging with STL data in the Ceramill Mind CAD software**
- \_ Quality assured patient treatment due to easier, more precise communication between the dentist and laboratory**
- \_ Control and information possibility during the design, e.g. of abutments**



Dicom data as 3-dimensional radiographic image



Display of deep lying structures



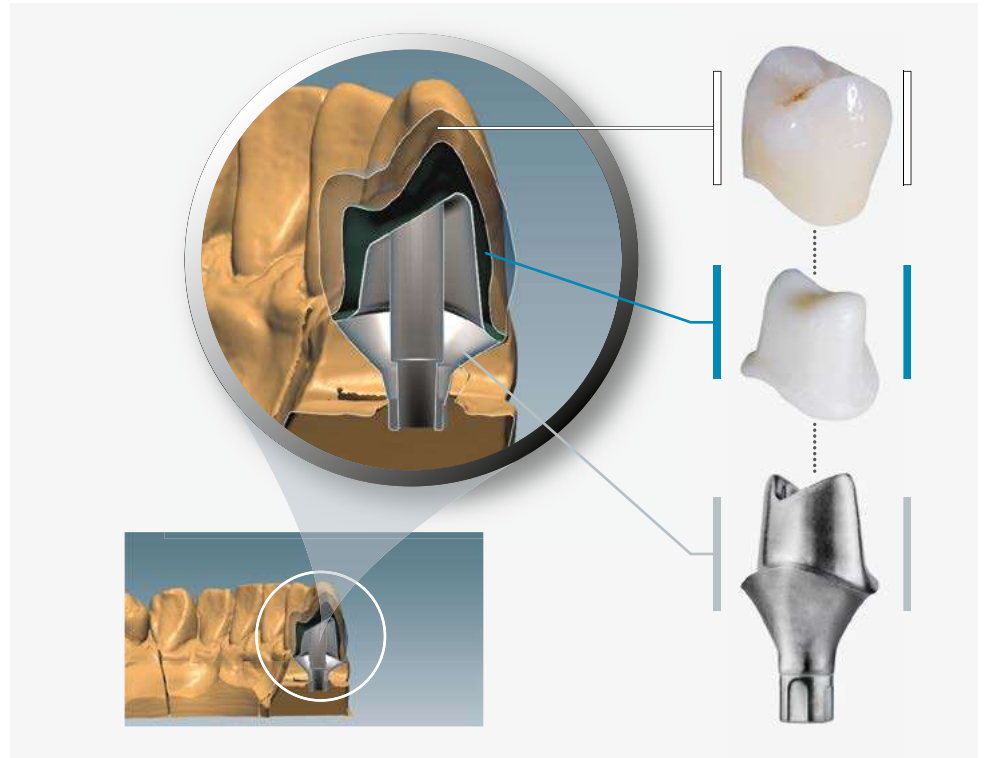
Visualisation of superficial facial structures

## TITANIUM ABUTMENT BLANKS WITH PREFABRICATED CONNECTION GEOMETRY

The Ceramill TI-Forms process stands for the processing of titanium abutment blanks with pre-fabricated connection geometries, which can be individually designed with the Ceramill M-Plant module. The blanks are available for a wide range of conventional implant systems, which is continuously extended.

The Ceramill portfolio has been extended to include original titanium abutment blanks, which can be processed highly precisely inhouse by Ceramill users with unlimited service, support and guarantee.

Other blanks with original connection geometries in validation.



**\_Smooth workflow ensures efficient, cost-effective working processes with highly precise final results**

**\_Free, flexible design of abutment and emergence profile for a high degree of customised design**

**\_Extended product portfolio by prosthetic components from implant manufacturers with unlimited service, support and guarantee provisions**



Further compatible implant systems can be found in our "Ceramill Implant Prosthetics" catalogs or online at [www.amannirrbach.com/downloads](http://www.amannirrbach.com/downloads)

### CERAMILL TI-FORMS

Implant manufacturer	Implant systems
Altatec®	Camlog®, Conelog®
BEGO Implant Systems®	Semados® S / RI / RS / RSX
BIOMET 3i®	External Hex
Bredent Medical®	SKY®
DENTSPLY Implants®	ASTRA TECH OsseoSpeed® EV, ASTRA TECH OsseoSpeed® TX, XiVE® S
Medentis Medical®	ICX®
Nobel Biocare®	Brånemark®, NobelActive®-NobelReplace® Conical, Nobel-Replace® Tapered
Straumann®	Bone Level®, Tissue Level®
Zimmer Dental®	Tapered Screw-Vent®

### TITANIUM ABUTMENT BLANKS FROM IMPLANT MANUFACTURERS

Implant manufacturer	Implant systems
Straumann	BoneLevel®
Straumann	SynOcta®
MIS**	C1, V3, Seven, M4
BEGO	Semados® SC/SCX/RS/R SX/RI**
Neodent	WS, HE, IIPlus, GM, CM
Paltop	SP, NP, Conical, WP

\* All components for implant systems not listed in our catalogs are to be obtained from the manufacturer.

\*\* With platform switching design.

Availability of product subject to local registration.



## INHOUSE FABRICATION OF CUSTOMISED, ONE-PIECE TITANIUM ABUTMENTS

The titanium abutment blanks that are available for a wide range of conventional implant systems achieve outstanding surface quality thanks to the rotational milling technique and multi-axis processing in the blank holder specially constructed for the Ceramill Matik. In contrast to conventional milling in which the blank generally remains in a static position, the blank rotates continuously around its own axis during multipass milling. This not only saves the travel paths of the cutters but also ensures that material is removed uniformly and homogeneously and creates surfaces with an equally precise and smooth finish.

Only a special adapter is required which can be used to upgrade already installed Ceramill milling machines with a wet milling function for processing blanks.



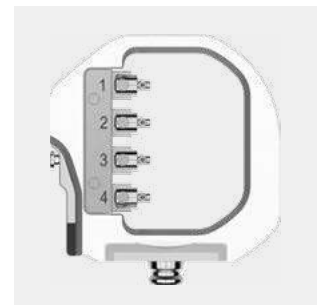
- \_High saving in time and maximum value creation thanks to inhouse fabrication**
- \_High precision of the abutments due to prefabricated implant-connection geometries**
- \_Maximum protection for the industrially manufactured implant interface by only gripping the abutment on the face side**
- \_Outstanding surface quality thanks to the rotational milling technique (Ceramill Motion 2) and multi-axis processing (Ceramill Matik)**
- \_Blanks available for all conventional implant systems**



Wet machining of a titanium abutment blank using the "rotary milling" technique



Titanium abutment blank and titanium abutment milled with the TI-Forms process

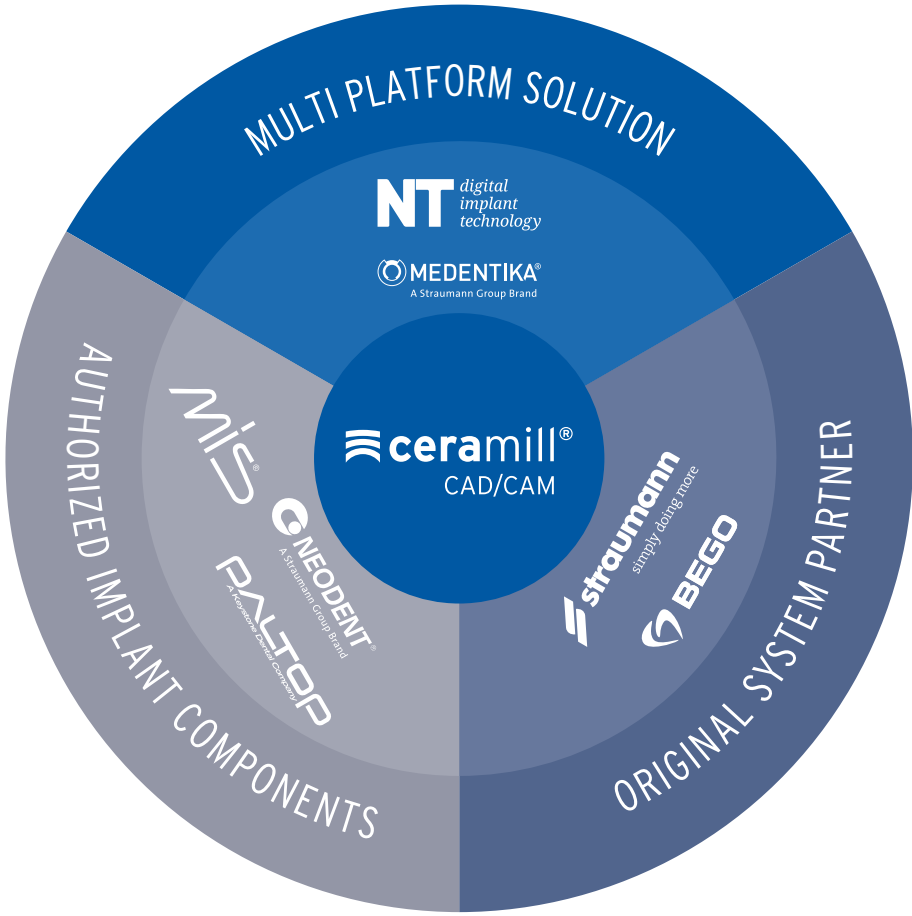


Ceramill TI-Forms upgrade kit for Ceramill Matik

More information on the Ceramill TI-Forms process as well as accessories for the fabrication of implant-supported restorations can be found in our "Ceramill Implant Prosthetics" catalogs or online at [www.amannirrbach.com/downloads](http://www.amannirrbach.com/downloads)

## IMPLANT PROSTHETICS FOR CERAMILL CAD/CAM

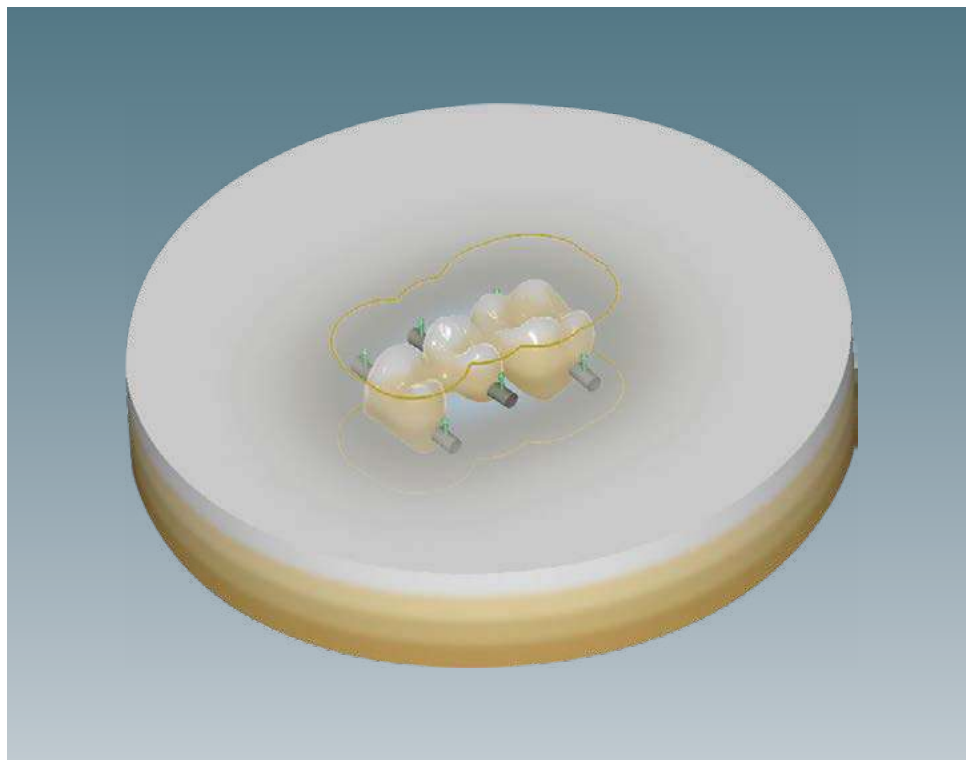
An extremely wide product portfolio is available for the fabrication of implant-supported restorations with the system components of our Ceramill implant prosthetic range. We are individually adapting our range perfectly coordinated to your requirements or options. In accordance with the holistic philosophy 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.



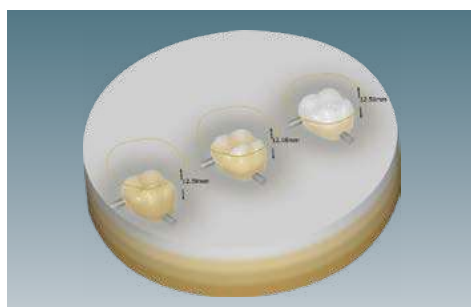


## DESIGNING AND NESTING IN TRUE SHADES

Restorations are visualised with a natural shade gradient using Ceramill Trusmile and displayed like the finished restoration in the CAD and CAM software. Scans or precision attachments such as telescope crowns or bars can also be reproduced specific to the material via Ceramill Trusmile. This already imparts an over-all impression of the final result during preparation and ensures a better aesthetic orientation during the design process.



- \_ Visualisation of restorations with natural tooth shade gradient**
- \_ Aesthetic orientation for technician and patient already during design**
- \_ Easy nesting and placing of designs in Multilayer blanks thanks to realistic (shade-) display of blanks and design**



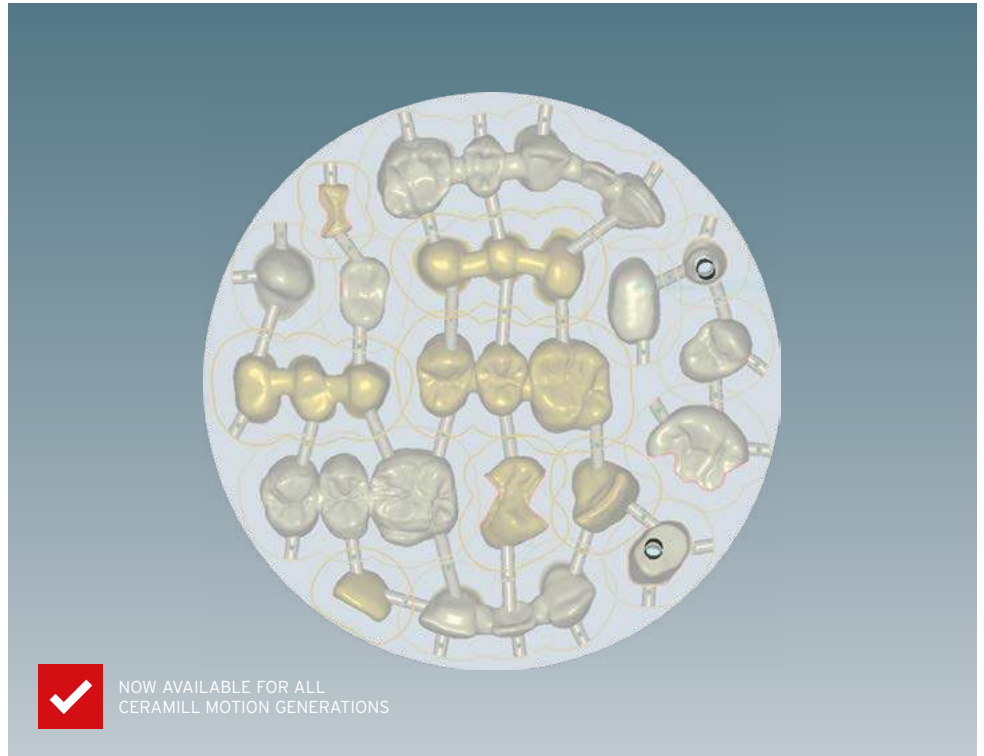
Realistic visualisation of the shade gradient of Zolid FX Multilayer



Material-specific visualisation of Ceramill Sintron

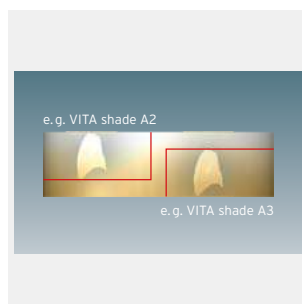
## INHOUSE MILLING WITH PREMIUM PERFORMANCE, USABILITY AND PRECISION

The automatic and transparent user interface of the Ceramill Match 2 CAM software form the basis for a reliable and easy operation. Even users with less experience can quickly and easily create milling programs for the production of various indications. An elaborated collision control (and evasion) of Ceramill Match ensures a high degree of process reliability.

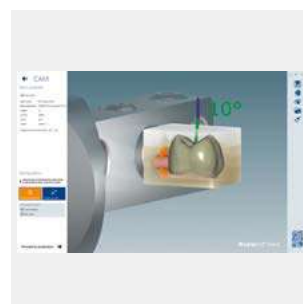


NOW AVAILABLE FOR ALL CERAMILL MOTION GENERATIONS

- \_Easy positioning and aligning of frameworks in the blank**
- \_Easy changing of the position, size and alignment of connectors**
- \_Speedy calculation of milling paths**
- \_Sinter cushion in thermodynamically optimum design shape for accurately fitting sintering of long-span zirconia restorations**



Intelligent nesting concept according to the VITA classical shade guide



Processing of VITABLOCS® TriLux forte with rendered representation of the shade gradient



Easy positioning of the connector posts on the designs

# PRODUCTION / CAM









"Ceramill CAD/CAM machines simplify my daily business enormously. Every day I am impressed again by the fit, the milling speed, and the surface quality!"

Peter Ewert MDT,  
Zahntechnik Ewert & Service GmbH,  
Germany

 ceramill mo



 ceramill® matik	78
 ceramill® motion 2	80
 ceramill® mikro	82
 ceramill® mikro ic	84
 ceramill® therm	89
 ceramill® argotherm	93





## ENGINEERED, PRODUCED, AND TESTED IN AUSTRIA

Our milling machines are fully created inhouse and exclusively at Amann Girrbach headquarters in Koblach, Austria. Based on our decades of experience in CNC technology and strong development skills we have the expertise to develop and manufacture our machines inhouse from scratch.

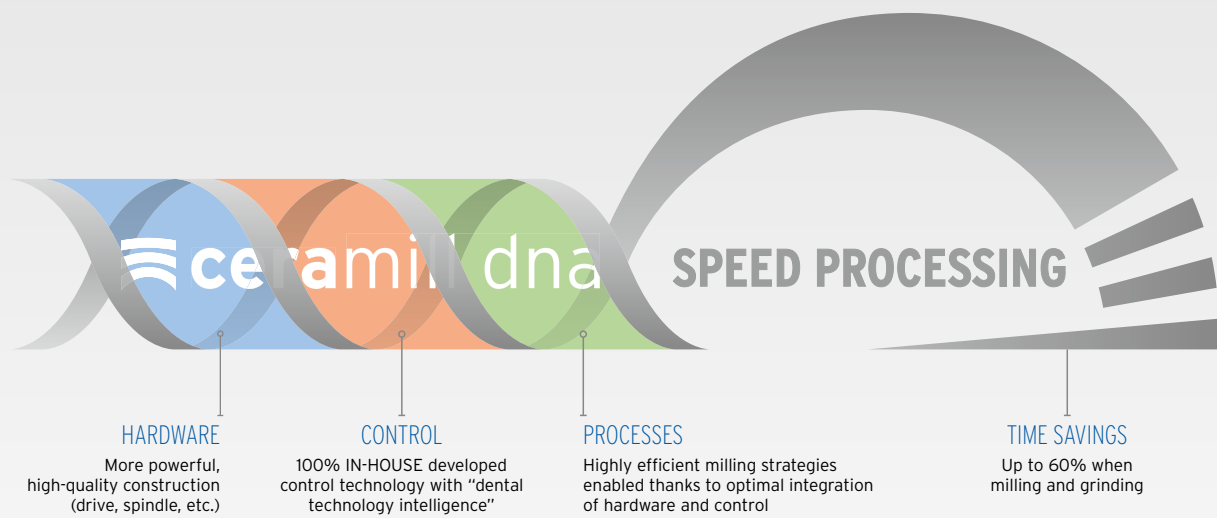


 Made in Austria



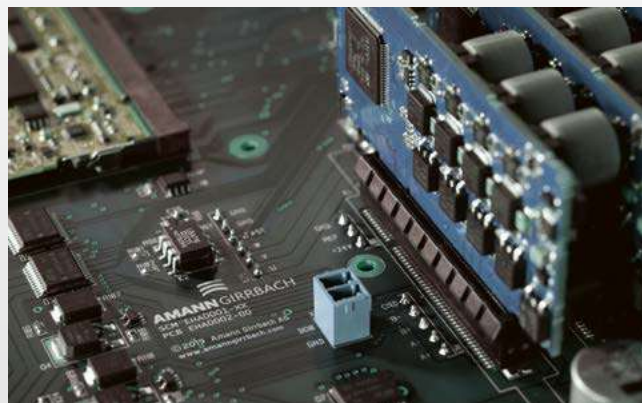
## DNA GENERATION. POWER + DENTAL INTELLIGENCE = PERFORMANCE

Thanks to in-house development of all the elementary components, and particularly the new control units, we can meticulously adapt our milling units to the specific requirements of dental technology and continuously refine them. An unmistakable profile results from the precision, speed, and CAM processes, which are precisely adapted to the mechanical properties of dental materials—we call this the “Ceramill DNA”.



## CNC ≠ CNC. 35 YEARS' EXPERIENCE IN MACHINE ENGINEERING – CONDENSED FOR DENTAL TECHNOLOGY.

Along with an intelligent construction that ensures the stability and torsional rigidity of the machine, the processing accuracy of desktop machines is critically influenced by the quality of their building components. The axis design and the spindle contribute significantly to compensation of the forces and vibrations that develop during the milling and grinding process. The components used in the CNC systems in the Ceramill brand are well above the stress limits, regardless of the material being processed. Combined with the robust construction, the components ensure long-term process stability as well as milling and grinding results of maximum precision.



HIGH-TECH SOUL. Developed from scratch - control technology for dental high performance.



# THE CORRECT SOLUTION FOR EVERYONE.

Maximum precision, future-security and full inhouse value creation due to maximum material and indication diversity form the basis of the Ceramill machine concept.

CERAMILL MATERIAL	MATERIAL	PROCESS WET/DRY	
Ceramill Sintron	CoCr sinter metal	~	
Ceramill Zirconia (LT, HT, SHT)	Zirconia	~	
Ceramill Wax	Milling wax	~	
Ceramill A-Cast	Acrylic, transparent	~	
Ceramill A-Temp / Ceramill A-Temp Multilayer	Acrylic, PMMA stained	~	
Ceramill A-Splint	Splints-acrylic, PMMA	~	
Ceramill M-Plast	Model plastic	~	
Ceramill D-Wax	Denture acrylic	~	
Ceramill TI-Forms	Titanium	~	
Ceramill PEEK	Polyetheretherketone	~	
VITA SUPRINITY® PC	Lithium silicate ceramic, zirconium-oxide reinforced	~	
VITA ENAMIC®	Hybrid ceramic	~	
VITABLOCS® Mark II / TriLux forte	Glass-ceramic	~	
IPS e.max CAD, Ivoclar Vivadent	Lithium disilicate ceramic	~	
Mogucera for Ceramill	Hard metal	~	
INDICATIONS			
Crown/bridge anatomically reduced			
Crown/bridge fully anatomical			
Implant bridge with gingiva section			
Inlay/Onlay/Veneer			
Overpress fully anatomical			
Telescope			
Attachment			
Titanium abutment (customised)			
Bridge on conical titanium bases			
Multi-unit, screw-retained restoration on titanium bases			
Bar on titanium base			
Bite raising appliance			
Eggshell temporary restoration			
Full denture			
Digital model fabrication			

SPECIALIZED

ALL-IN



**ceramill<sup>®</sup> mikro**

**ceramill<sup>®</sup> mikro**

**ceramill<sup>®</sup> mikro ic**

**ceramill<sup>®</sup> motion 2**

**ceramill<sup>®</sup> matik**

4X ~

5X ~

4X 🔥

5X 🔥 ~

5X 🔥 ~

	MILLING	MILLING	MILLING, GRINDING, CARVING, THRILLING	MILLING, GRINDING, CARVING, THRILLING	MILLING, GRINDING, CARVING, THRILLING
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>

## TIME IS ON YOUR SIDE

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 zirconium 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**



Integrated and RFID-controlled blank tank



Convenient tool trays for easy loading and changing

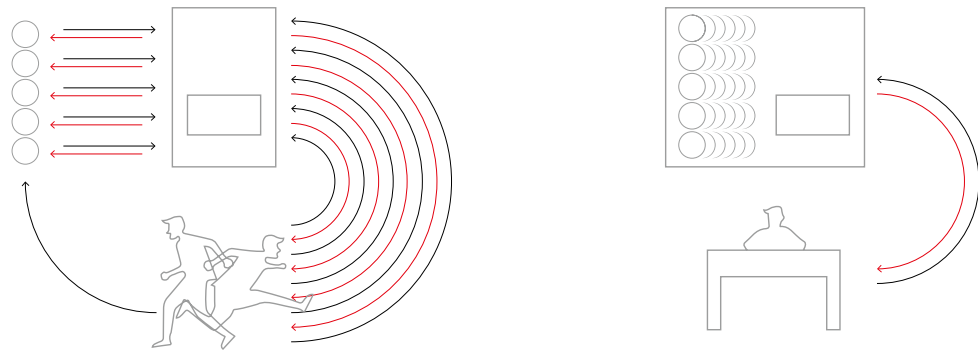


Autonomous cleaning due to Ceramill Cleanstream

# #PRIMETIME - WITH A FULL FOCUS ON THE ESSENTIALS.

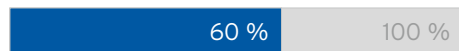
The Ceramill Matik supports everyday laboratory routines with the complex administration of tools, materials and jobs, so that the user can focus on value-creating activities. As a result, the dental technician regains his/her role as the pacesetter in the digital manufacturing process - not the machine.

## LABORATORY WORKFLOW



### CONVENTIONAL CAD/CAM MACHINE

Productive working time:



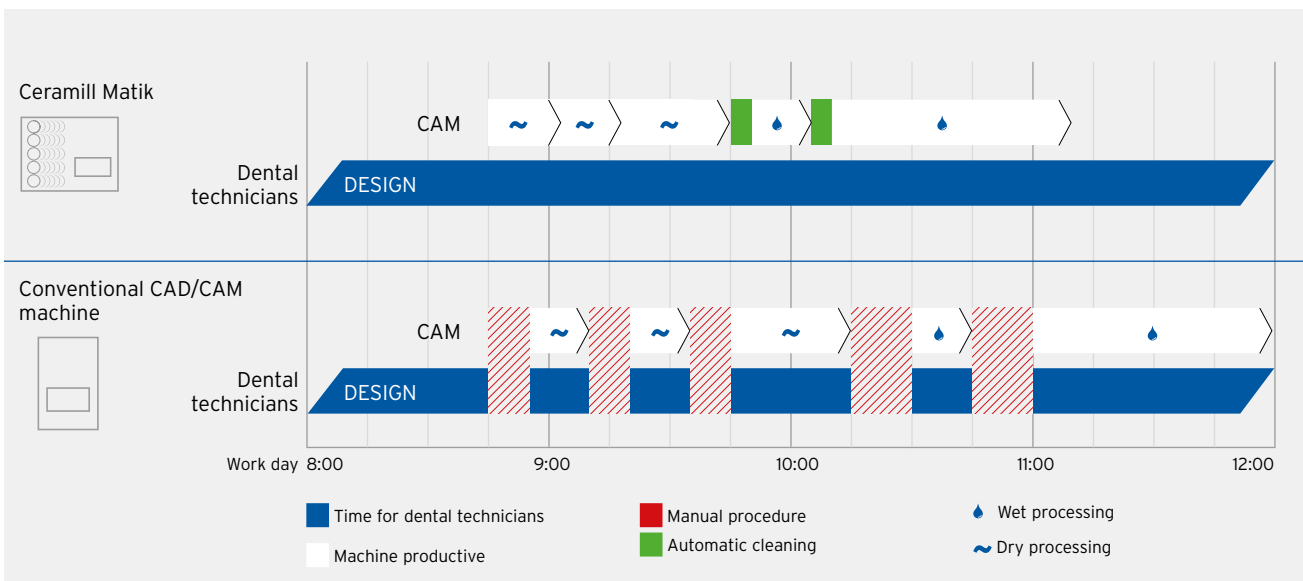
### CERAMILL MATIK

Productive working time:



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

Full focus on the value-creating activities.



## ONE FOR ALL - ALL IN ONE.

The Ceramill Motion 2 is a benchmark in terms of the range of indications and materials inhouse. The 5-axis milling unit combines wet and dry processing in one unit and enables the value-creation chain to be kept virtually completely inhouse in the laboratory. The Ceramill Motion 2 can be used either as a purely dry or wet unit or in combined operation for an unlimited range of materials and indications.

Equipped with the innovative control technology and robust machine concept from Amann Girrbach, the Ceramill 2 is guaranteed to be future-proof, economic and precise. Furthermore, the innovative machining strategies for the rotational milling of Ti Preforms, the Carving Mode as well as the Thrilling Mode round off the versatility of the system.



- \_High Performance milling, grinding, carving (patented), thrilling due to DNA milling/ grinding strategies**
- \_Maximum range of materials and indications thanks to 5-axis wet and dry processing in one unit**
- \_Innovative processing procedures ensure maximum ROI (e.g. rotational milling of titanium, processing of full dentures)**
- \_Intelligent machine design guarantees optimum protection of all electronic components during wet operation**



Carving of up to 3-pontic bridges



Fabrication of one-piece/multi-piece abutments from hard block materials



**Super-high frequency spindle**  
highly precise, stable, quiet running

**Tool length measuring unit**  
incl. fracture check and calibration

**Blank holder**  
exchangeable, depending on material or indication

**6 tool spaces**  
with automatic tool changer

**Blank holder and wet/dry processing mode**  
in only a few steps

**Suction cup**  
for increased suction performance and reduction of spray water

**Coolant supply tank connection**  
large volume capacity ensures long operating cycles



Easy change of the blank holder for conversion from milling to grinding

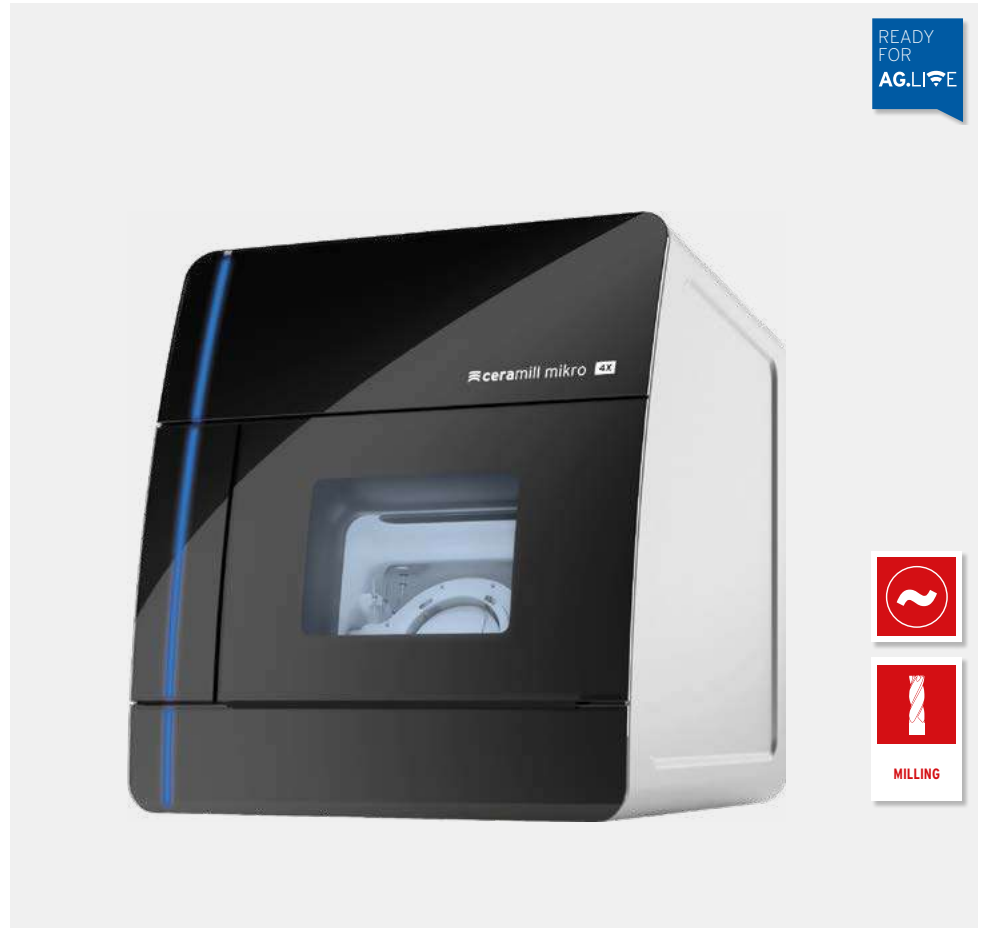


Ceramill Coolstream - integrated coolant preparation in the cart and connection for the Airstream extraction during dry processing

## EASY ENTRY OR EFFICIENT UPGRADING.

Ceramill Mikro 4X is an extremely robust and compact 4-axis milling machine for dry processing blanks and single blocks such as zirconia, hybrid ceramics or dry millable composite materials.

Equipped with high-performance components for permanent stability, economy and precision with low investment costs, the Mikro enables easy entry into CAD/CAM fabrication inhouse in the laboratory or optimises the efficiency and productivity of the laboratory routine. With the full range of conventional laboratory indications, Ceramill Mikro 4X paves the way to profitable inhouse value creation, economy and accurately fitting framework quality without preparation or reworking.



**\_High Performance milling due to DNA milling strategies**

**\_Easy entry or efficient upgrading thanks to low investment costs and high amortisation**

**\_Highly versatile due to 4-axis dry processing of blanks and hybrid ceramic blocks**

**\_Precise and durable thanks to high-quality components and robust machine design**



Stable and agile—Monocoque cast and small movement paths allow for a rapid and stable milling process

## 5-AXIS TECHNOLOGY CONCENTRATED IN MINIMUM SPACE.

Splints, bars, implant bridges - the 5-axis unit Ceramill Mikro 5X not only masters conventional crown and bridge work but was also designed for fabricating more complex indications with dry millable materials. The high rigidity and stability of the machine are based on the compact construction design of the sister model Ceramill Mikro 4X, without having to forego the advantages of 5-axis technology. The result is absolutely low-vibration processing, which in combination with Ceramill control technology produces impressive precision on the blank.

Fast processing times, maximum quality and a wide range of indications and materials make the Ceramill Mikro 5X a genuine winner in the laboratory in terms of productivity.



- \_ High Performance milling due to DNA milling strategies**
- \_ Maximum range of indications in the 5-axis dry milling**
- \_ Space-saving, compact design with the latest 5-axis technology**
- \_ Fast, stable and efficient thanks to low-vibration monocoque design**
- \_ High-quality machine components guarantee constantly high precision and durability**



For maximal precision - Workflow-driven auto-calibration



Versatility - Block processing of up to 3 dry-milled blocks possible



5-axis exterior processing using Ceramill CAD/CAM

## THE POWER PACK WITH THE PATENTED "CARVING MODE".

This compact 4-axis milling unit extends inhouse fabrication of conventional laboratory indications to include the option of wet grinding/milling. Titanium abutment blanks can also be processed with this unit in the same way as composites, hybrid and glass-ceramics. The monocoque design, the solidly designed axis system as well as powerful high-frequency spindles transfer the respective milling strategies precisely and at high feed speeds to the workpiece. This is particularly effective when grinding in the "Carving Mode". This innovative grinding process reduces the processing times of single blocks up to 60%. With the new "Thrilling Mode", it is also possible to "thrill" block assemblies including the connection geometries from standard CAD blocks. This is yet another profitable in-house indication which finds its way back into the laboratory and expands the versatile Ceramill CAD/CAM portfolio.



- \_ High Performance processing due to DNA milling/grinding strategies
- \_ Patented "Carving mode" reduces the processing time of individual blocks by approx. 60%
- \_ Solid design enables the highest degree of precision with maximum feed rates
- \_ Special holder design ensures easy handling and accuracy when processing hard materials (titanium, glass-ceramics etc.)



Highly precise processing of titanium abutment blanks using the rotational milling technique



Grinding in the carving mode reduces processing times by up to 60%

Ceramill Mikro 4X	Material Item No.	Material 98 179295	3x Composite 179245	Cutter/Grinder
Blanks	Zirconia	○		Roto
	Acrylics (Wax, A-Temp, PMMA, etc.)	○		Roto
	Soft CoCr	○		Roto
Blocks	Zirconia		○	Roto
	Acrylics (A-Temp, etc.)		○	Roto
	Hybrids		○	Roto DMB DC

Ceramill Mikro 5X	Material Item No.	Material 98 179331	3x Composite 179245	Cutter/Grinder
Blanks	Zirconia	○		Roto
	Acrylics (Wax, A-Temp, PMMA, etc.)	○		Roto
	Soft CoCr	○		Roto
Blocks	Zirconia		○	Roto
	Acrylics (A-Temp, etc.)		○	Roto
	Hybrids		○	Roto DMB DC

Ceramill Mikro IC	Material Item No.	Grinding Universal 179611	3x Grinding Universal 179616	Rotational milling 179614	Cutter/Grinder
Blocks (grinding)	Glass-ceramics	○	○		Roto Diamond
	Hybrids	○	○		Roto Diamond
	Lithium disilicate	○	○		Roto Diamond
	Others				Roto Diamond
Blocks (milling)	Zirconia				Roto WMB DC
	TEMP/PMMA				Roto WMB DC
	Titanium			○	Roto TI



				Ceramill DNA Milling Units						Material															
	Art. Nr.	Description	Ring color	Mikro 4X	Mikro 5X	Mikro IC	Motion 2	Matik	Zolid Zirconia	Ceramill Sintron	Ceramill M-Plast	Ceramill PMMA	Ceramill Peek	Ceramill Wax	Ceramill D-Set	Ceramill Splintec	Ceramill D-Wax	Ceramill T-Preforms	Ceramill COCR	Glass ceramic	Lithium disilicates	Hybrid ceramics	VITA VIONIC/BDS	Solvay Ultaire AKP	VITA VIONIC Wax White
	760660	Roto RFID 2,5 ZI	grey	x	x		x	x	x																
	760661	Roto RFID 1,0 ZI	grey	x	x		x	x	x																
	760662	Roto RFID 0,6 ZI	grey	x	x		x	x	x																
	760663	Roto RFID 0,3 ZI	grey	x	x		x	x	x																
	760664	Roto RFID 2,5 Sintron	blue	x	x		x	x		x															
	760665	Roto RFID 1,0 Sintron	blue	x	x		x	x		x															
	760666	Roto RFID 0,6 Sintron	blue	x	x		x	x		x															
	760667	Roto RFID 0,3 Sintron	blue	x	x		x	x		x															
	760668	Roto RFID 2,5 PMMA	green	x	x		x	x				x	x			x									
	760669	Roto RFID 1,0 PMMA	green	x	x		x	x			x*	x	x			x									
	760670	Roto RFID 0,6 PMMA	green	x	x		x	x				x	x												
	760671	Roto RFID 0,3 PMMA	green	x	x		x				x*														
	760672	Roto RFID 2,0 Ti	black				x	x	x										x						
	760673	Roto RFID 1,0 Ti	black				x	x	x										x						
	760676	Diamond RFID 1,8	orange				x	x	x											x	x	x			
	760677	Diamond RFID 1,4	orange				x	x	x											x	x	x			
	760678	Diamond RFID 1,0	orange				x	x	x											x	x	x			
	760679	Diamond RFID 0,4	orange				x	x	x											x	x	x			
	760680	Roto RFID 2,5 SC	yellow		x		x	x						x**		x									x*
	760681	Roto RFID 1,0 SC	yellow				x	x						x**											x*
	760682	Roto RFID 0,6 SC	yellow				x	x						x**											x*
	760683	Roto RFID 0,3 SC	yellow				x	x						x**											x*
	760684	Roto RFID 2,5 DMB DC	white	x	x	x	x									x							x		
	760685	Roto RFID 1,0 DMB DC	white	x	x	x	x									x							x		
	760686	Roto RFID 0,6 DMB DC	white	x	x	x	x																x		
	760687	Roto RFID 0,3 DMB DC	white	x	x	x	x																x		
	760688	Roto RFID 2,5 COCR	brown						x											x					
	760689	Roto RFID 1,5 COCR	brown						x											x					
	760690	Roto RFID 1,0 COCR	brown						x											x					
	760692	Roto RFID 2,5 PMMA Denture	pink				x																	x	
	760693	Roto RFID 1,5 PMMA Denture	pink				x																	x	
	760697	Roto RFID 2,5 Model	red				x				x														
	760698	Roto RFID 2,0 Model	red				x				x														
	760694	Roto RFID 1,2 Drill	green				x																		
	751001	Roto RFID 1,2 ST	purple						x																
	760695	Roto RFID 1,0 Wax Denture	red				x	x												x					x
	760696	Roto RFID 3,0 Wax Denture	red				x	x			x									x					x
	181205	Roto RFID Kalibrierstift	purple			x			x																

\* Processing only possible with Ceramill Matik and Ceramill Motion 2  
 \*\* Processing only possible with Ceramill Matik

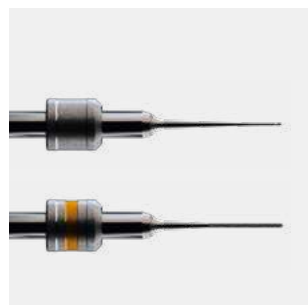
# HIGH DEFINITION CAD/CAM FOR ALL MATERIALS AND INDICATIONS

## MILLING IN HD QUALITY:

Thanks to the interplay of highly precise (super-) high-frequency spindles, meticulously developed milling strategy and ultra-thin HD cutters the entire range of millable Ceramill CAD/CAM materials can be processed to a high level of quality that sets new standards.



- \_Maximum detail work for highest possible esthetics**
- \_Most delicate structures for minimal preparation and post-processing of the restoration**



0.3mm cutter and 0.4mm trimmer



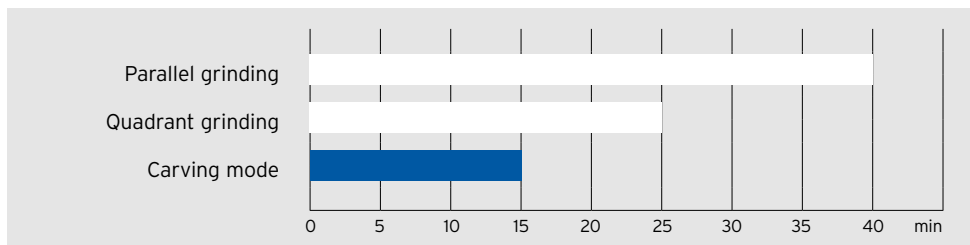
Ceramill Sintron milled

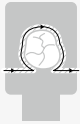


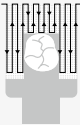
VITA SUPRINITY®PC sintered/  
Ceramill HD - without preparation  
and reworking

## CARVING - SYMBIOSIS OF POWER AND INTELLIGENCE

The patented Carving mode - enables glass and hybrid ceramics to be processed with a saving in time of approx. 60%. Excess material is completely removed with this special grinding technique, which avoids grinding down the block to the actual geometry. The process, which is unique in dental CAD/CAM technology to date, results in a massive saving in time and corresponds to processing with two spindles (approx. 15 min / crown).



<p>Time-saving "Carving mode"</p> 	<p><b>Ceramill DNA Generation</b> DNA milling/grinding strategies* RPM: 100,000 Output: 750 W</p>	<p>➔</p>	<p><b>= DNA Performance Grinding</b> E.g. Hybrid ceramic: Ø Processing time = approx. 15 min.</p>
---	---	----------	---

<p>Time-consuming Parallel grinding</p> 	<p><b>Competitor (Ø performance)</b> Standard milling-grinding strategies* RPM: 30,000 Output: 250 W</p>	<p>➔</p>	<p><b>= Standard grinding</b> E.g. Hybrid ceramic: Ø Processing time = approx. 40 min.</p>
---	--	----------	--

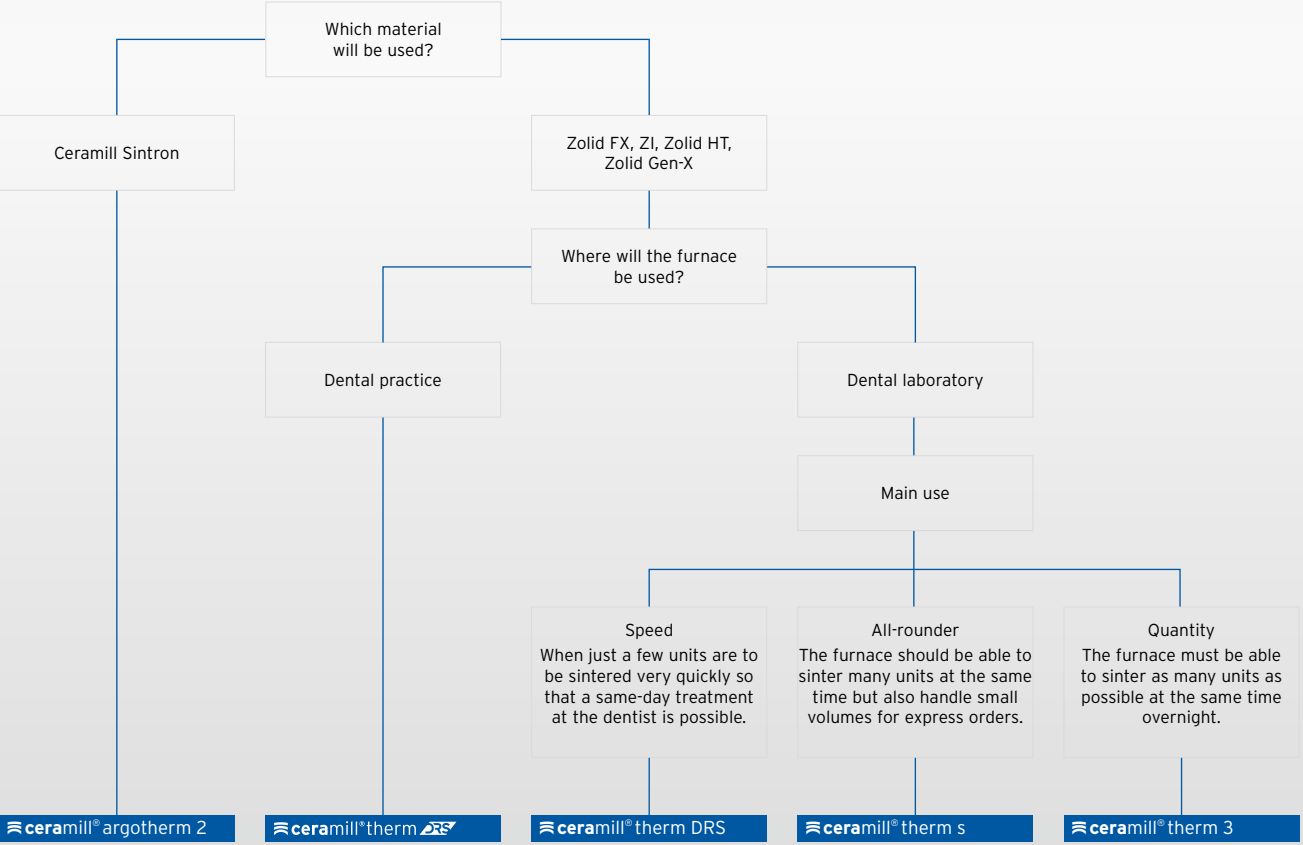
\* Average technical data of commercially available laboratory milling machines

# OVERVIEW AND EXPLANATION OF THE ENTIRE PORTFOLIO

Regardless of whether users want speed sintering or traditional sintering—Amann Girrbach offers a wide range of optimal sintering furnaces to satisfy individual needs and requirements.

"STANDARD"	"SPEED"	"HIGH-SPEED"
		
<b>ceramill® therm 3</b>	<b>ceramill® therm s</b>	<b>ceramill® therm DRS</b>
<ul style="list-style-type: none"> <li>_ Production</li> <li>_ Up to 120 units</li> <li>_ 8 h sintering cycle</li> </ul>	<ul style="list-style-type: none"> <li>_ Speed &amp; Standard</li> <li>_ Up to 80 units</li> <li>_ Speed sintering cycle &gt; 120 min</li> </ul>	<ul style="list-style-type: none"> <li>_ Up to 3 units</li> <li>_ Speed sintering cycle 20-30 min</li> <li>_ Auto-dry</li> <li>_ Auto cooling</li> <li>_ Glazing</li> </ul>

## WHICH FURNACE IS RIGHT FOR ME?



# RAPID SINTERING-SYSTEM FAST, ESTHETIC, EFFICIENT.

The new Ceramill Therm DRS super-speed sintering furnace allows the sintering of small zirconium oxide 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, which exceeds all expectations in terms of speed, flexibility and energy efficiency. In addition, the super-speed sintering furnace stands out from the crowd with its slim design and compact construction as well as combining the most important process steps in the fabrication of zirconium oxide restorations in a single unit: pre-drying, sintering and glazing. This makes the Ceramill Therm DRS the ideal addition and maximizes flexibility in everyday laboratory routines.



- \_Speed-sintering cycle of restorations with Zolid DRS in approx. 20 minutes without any relevant loss of esthetics and strength**
- \_Innovative operating concept with individual sintering programs provides high comfort and safe work processes**
- \_Ideally suited for the rapid provision of single-tooth restorations through perfect workflow integration**

FEATURES	INDICATIONS	SINTERING PROGRAM	MATERIAL
RAPID sintering	Single-tooth crown	20 min.	zolid drs
	3-unit bridge	30 min.	zolid drs
	Single-tooth crown, 3-unit bridge	60 min.	zolid gen-x
SPEED sintering	Single-tooth crown, 3-unit bridge	120 min.	zolid fx
Multifunctional	Glazing, automatic drying, automatic cooling, free sintering of other materials		





## THE SPEED SINTER FURNACE FOR GREATER FLEXIBILITY IN EVERYDAY LABORATORY ROUTINES

The Ceramill Therm S provides laboratories with a new level of flexibility. In addition to the option of sintering single tooth restorations in only 2 hours, the compact and energy-efficient furnace offers a superior spectrum of use. Next to sintering up to 6-pontic restorations and the Autodry® drying function, glaze firing is also not a problem for the agile device.

Furthermore, the Therm S sets new benchmarks in terms of user friendliness. In addition to a 10.4" touch display and an intuitive user interface, the furnace can be connected directly to the Internet via a network interface, making tedious updates and protocol archiving a thing of the past. This and other service and remote functions can be managed directly and conveniently via an Internet database.



- \_More flexibility in everyday laboratory routines with a 2-hour speed sintering programme for single tooth restorations**
- \_Greatest possible user versatility through Autodry® drying function, sintering mode for up to 6-pontic restorations and glaze firing mode**
- \_Easy handling via 10.4" touch display and Internet connection for programmes and protocols**

## FULLY AUTOMATIC HIGH-PERFORMANCE FURNACE FOR FINAL SINTERING OF DISTORTION-FREE ZIRCONIA FRAMEWORKS

Using the Ceramill Therm 3 high-temperature furnace zirconia frameworks obtain their final density and the resulting, outstanding material characteristics. For sintering, the objects are placed onto sintering beads, which ensures a frictionless sintering process and thus distortion-free frameworks. The Ceramill Therm 3 offers high process reliability due to constant temperature control and homogeneous temperature distribution in the firing chamber. As a result of this, the user is able to safely control if the final density and thus strength of the frameworks has been achieved.

Users have 250 available sintering programme spaces, 4 of which are already pre-programmed with validated AG sintering programmes.



- \_ High process reliability due to constant temperature control, homogeneous temperature distribution in the firing chamber**
- \_ Maximum process reliability due to optimally coordinated, fully-automated sintering programmes for different restoration sizes**
- \_ 250 sintering programme spaces, 4 of which are validated AG programmes**
- \_ 3 stackable sintering bowls for maximum utilisation of the furnace**
- \_ Minimum required space and installation time (supply required)**
- \_ Sintering at the press of a button - very easy operation with touch-screen technology**
- \_ Clear display of the sinter curve and sinter status**



The Ceramill Therm 3 has a large sintering chamber volume in which 3 sinter trays can be stacked on one another for optimum utilisation of the furnace. With the aid of the sinter forceps, the sinter shell can be transferred easily and safely in and out of the furnace.

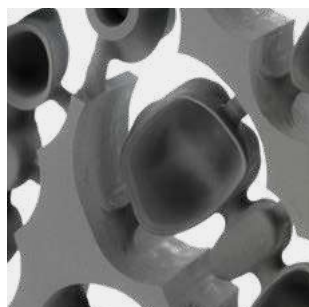
## SHIELDING GAS SINTER FURNACE AND FLOOD CHAMBER FOR CERAMILL SINTRON

The CoCr sintering furnace Ceramill Argotherm 2 is an integral part of a system with optimally coordinated components for processing the sinter metal Ceramill Sintron. Only the perfect adaptation of sinter metal, processing in the CAD/CAM system and completion in the sintering furnace ensure consistently high material quality - especially if it involves the mechanical properties and (micro-) structure of the finished restoration. Easy to operate at the press of a button, the Ceramill Argotherm 2 controls the sinter programme of the milled CoCr units.

The "core" of the system, the removable Ceramill Argovent 2 sinter chamber, ensures minimal consumption of argon gas and homogeneous, distortion-free sintering of the restorations.



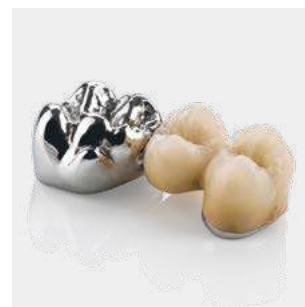
- \_ Constantly high sinter quality thanks to the specially developed sinter programme**
- \_ Integrated compressed-air and shielding gas monitoring ensure maximum process reliability and minimum shielding gas consumption**
- \_ Sintering at the press of a button - easy to operate using touch-screen technology with sinter-progress and time-remaining display**
- \_ Capacity per sinter cycle: up to 40 units**



Ceramill Sintron-blanks before sintering process



Restoration milled from Ceramill Sintron with and without polishing



Veneered and polished Ceramill Sintron restoration




# PRODUCTION / 3D PRINTING



"With the 3D printing solution for Ceramill, I can ideally expand my workflow to include this innovative production variant. In addition to the accustomed ease of operation, I am particularly fascinated by the precision and production speed of the system."

Julien Krämer MDT,  
Krämer Dental, Germany

5100 **Next Dent**  
FOR  **ceramill**

NextDent for  **ceramill**®

97



95



## NEXTDENT 5100 FOR CERAMILL - A UNIQUE COOPERATION

3D Systems meets Amann Girrbach.  
3D printing meets dental workflow.  
Together, 3D Systems and Amann Girrbach have created a unique system solution for the dental market.  
By pooling the core competencies of both system partners, 3D printing for the first time enables a dental and fully integrated workflow for the fabrication of dental products and aids.

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.
















## WIDE RANGE OF INDICATIONS AND MATERIALS FOR MAXIMUM ROI

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.

<p><b>NextDent Cast</b></p>  <p>Crowns, bridges, partial dentures</p> <p><b>INTEGRATED</b></p>	<p><b>NextDent C&amp;B MFH</b></p>  <p>Crowns, bridges</p> <p><b>INTEGRATED</b></p>	<p><b>NextDent Model 2.0</b></p>  <p>Models</p> <p><b>INTEGRATED</b></p>	<p><b>NextDent Try-In</b></p>  <p>Mock-Up</p> <p><b>INTEGRATED</b></p>
<p><b>NextDent Denture 3D+</b></p>  <p>Prosthetic bases</p> <p><b>INTEGRATED</b></p>	<p><b>NextDent Ortho IBT</b></p>  <p>Indirect bonding trays</p> <p><b>VALIDATED</b></p>	<p><b>NextDent Ortho Rigid</b></p>  <p>Bite splints</p> <p><b>VALIDATED</b></p>	<p><b>NextDent SG / Orange</b></p>  <p>Drilling templates</p> <p><b>VALIDATED</b></p>
<p><b>NextDent Gingiva Mask</b></p>  <p>Flexible gingiva masks</p> <p><b>VALIDATED</b></p>	<p><b>NextDent Tray</b></p>  <p>Individual trays</p> <p><b>VALIDATED</b></p>		

## 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.



- \_ Safety and time savings in everyday laboratory routine due to the automatic transfer of design data in combination with an intelligent nesting concept**
- \_ 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.**

## THE HIGH-SPEED -3D PRINTER FOR DENTAL MATERIALS

The high-speed -3D printer NextDent 5100 for Ceramill with the groundbreaking Figure 4™ technology stands for high productivity at first-class speed at a price that is affordable for practically all dental laboratories.

In addition to perfect restoration results, the 3D printer scores with enormous time savings due to the revolutionary Figure 4™ technology and the oxygen-permeable membrane in the material tray. The low pull-off forces between the membrane and the construction platform ensure a distortion-free printing process and excellent results. A gentle separation process enables the use of filigree support structures, which can not only be separated easily and without tools in the post-processing process, but also in a time-saving manner.

And last but not least, the NextDent 5100 for Ceramill convinces with its simple single-hand handling. The integrated color display can also be operated with gloves and both the construction platform and the material tray are easily accessible and user-friendly during application.



READY FOR  
AG.LIVE

- \_Up to 3x faster printing due to Figure 4™ technology for high productivity and flexibility**
- \_Low pull-off forces due to an oxygen-permeable membrane ensure a long service life of the material tray, easy separation of the support structures and distortion-free results**
- \_Easy handling due to touch screen and single-hand operation of accessories such as the construction platform and material tray**



Thanks to a defined mixing process with fixed stirring times, the LC-3D Mixer ensures stable and homogeneous material conditions before printing



The LC-3D Print Box is a post-curing UV light box to ensure a quick and uniform curing cycle





# CAD/CAM MATERIAL



"We at the Amsterdam Dental Group strive to provide the best for our patients. The wide variety of materials in Amann Girrbach's CAD/CAM portfolio has enabled us to select the ideal material for each clinical situation."





Harold Baumgarten DMD,  
Amsterdam Dental Group, USA

<b>Zolid DNA Zirconia</b>	104	<b>Polymers/Wax</b>	130
≡ <b>zi</b>	111	≡ <b>ceramill® a-temp multilayer</b>	133
≡ <b>zolid gen-x</b>	113	≡ <b>ceramill® a-temp</b>	133
≡ <b>zolid ht+ preshades</b>	114	≡ <b>ceramill® a-splint</b>	134
≡ <b>zolid ht+ white</b>	115	≡ <b>ceramill® a-cast</b>	135
≡ <b>zolid fx multilayer</b>	117	≡ <b>ceramill® wax</b>	136
≡ <b>zolid fx white</b>	118	≡ <b>ceramill® peek</b>	137
≡ <b>zolid drs multilayer</b>	119	≡ <b>ceramill® m-plast</b>	138
≡ <b>esthetic management</b>	121		
<b>Metal</b>	122	<b>Hybrids/Ceramic</b>	139
≡ <b>ceramill® sintron</b>	125	VITA ENAMIC / VITA ENAMIC multiColor	139
MoguCera C Disc	128	VITA SUPRINITY PC	141
≡ <b>ceramill® ti-forms</b>	129	VITABLOCS Mark II / TriLux Forte	141
		<b>3D Print Resins</b>	142
		NextDent for Ceramill	143






# CAD/CAM MATERIAL - AUTHORIZED FOR CERAMILL






## ZIRCONIA

	<ul style="list-style-type: none"> <li>zi white</li> </ul>	<ul style="list-style-type: none"> <li>Anatomically reduced crowns and 4-unit to multi-unit bridge frameworks</li> <li>Customised abutments on titanium bases</li> <li>Multi-unit, screw-retained restorations on titanium bases</li> </ul>
	<ul style="list-style-type: none"> <li>zolid gen-x</li> <li>zolid ht+ preshade</li> <li>zolid ht+ white</li> </ul>	<ul style="list-style-type: none"> <li>Fully anatomical crowns and 4-unit to multi-unit bridges</li> <li>Anatomically reduced crowns and 4-unit to multi-unit bridge frameworks</li> <li>Multi-unit, screw-retained restorations on titanium bases</li> </ul>
	<ul style="list-style-type: none"> <li>zolid fx multilayer</li> <li>zolid fx white</li> </ul>	<ul style="list-style-type: none"> <li>Fully anatomical crowns and bridges (max. 3-unit extending to the molar region)</li> <li>Anatomically reduced crowns and bridge frameworks (max. 3-unit extending to the molar region)</li> <li>Veneers, inlays, onlays</li> </ul>
	<ul style="list-style-type: none"> <li>zolid drs multilayer</li> </ul>	<ul style="list-style-type: none"> <li>Fully anatomical crowns and bridges (max. 3-unit extending to the molar region)</li> <li>Anatomically reduced crowns and bridge frameworks (max. 3-unit extending to the molar region)</li> <li>Veneers, inlays, onlays</li> </ul>

## METAL

	<ul style="list-style-type: none"> <li>ceramill sintron</li> </ul>	<ul style="list-style-type: none"> <li>Anatomically reduced and fully anatomical crown and bridge frameworks in the anterior and posterior region</li> <li>Telescope</li> <li>Custom abutments on titanium bases</li> <li>Multi-unit, screw-retained restorations on titanium bases</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill CoCr</li> <li>MoguCera C Disc</li> </ul>	<ul style="list-style-type: none"> <li>Fully anatomical crowns and 4-unit to multi-unit bridges</li> <li>Anatomically reduced crowns and 4-unit to multi-unit bridge frameworks</li> <li>Multi-unit, screw-retained restorations on titanium bases</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill ti-forms</li> </ul>	<ul style="list-style-type: none"> <li>Titanium abutment (customised)</li> </ul>

## POLYMERS / WAX










	<ul style="list-style-type: none"> <li>ceramill a-temp</li> <li>ceramill a-temp multilayer</li> </ul>	<ul style="list-style-type: none"> <li>Temporary anterior and posterior crowns</li> <li>Temporary anterior and posterior bridges with a maximum of two connected intermediate units</li> <li>Assessment of the fit to the plaster model / mouth prior to final restoration</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill a-splint</li> </ul>	<ul style="list-style-type: none"> <li>Splints for therapeutic care in correcting jaw joint problems and the chewing plane</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill a-cast</li> </ul>	<ul style="list-style-type: none"> <li>Fabrication of lost molds for the casting technique</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill wax</li> </ul>	<ul style="list-style-type: none"> <li>Frameworks for the casting and press technique</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill m-plast</li> </ul>	<ul style="list-style-type: none"> <li>Models</li> </ul>
	<ul style="list-style-type: none"> <li>ceramill peek</li> </ul>	<ul style="list-style-type: none"> <li>Crowns and bridges (max. 3-unit)</li> <li>Secondary and telescope restorations</li> <li>Attachment restorations</li> <li>Screw-retained, implant-supported superstructures</li> </ul>
	<ul style="list-style-type: none"> <li>VITA Vionic Base</li> </ul>	<ul style="list-style-type: none"> <li>Digital dentures</li> </ul>






CERAMIC

	VITA SUPRINITY® PC	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> <li>_Supraconstructions on implants</li> </ul>	
	VITABLOCS® Mark II	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> </ul>	
	VITABLOCS® TriLux Forte	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> </ul>	
	IPS e.max CAD®	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> <li>_Partial crowns</li> <li>_Three-pontic bridges (as far as second premolar as terminal abutment)</li> </ul>	

HYBRIDS

	VITA ENAMIC®	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> <li>_Crown on implants</li> </ul>	
	VITA ENAMIC® multiColor	<ul style="list-style-type: none"> <li>_Veneer</li> <li>_Crowns</li> <li>_Crown on implants</li> </ul>	
	SHOFU BLOCK HC	<ul style="list-style-type: none"> <li>_Implant-supported restorations</li> <li>_Anterior and posterior crowns</li> <li>_Inlay/Onlay</li> <li>_Veneer</li> </ul>	
	HASS Ambermill	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Anterior and posterior crowns</li> <li>_Three-pontic bridges (as far as second premolar as terminal abutment)</li> </ul>	
	Tokuyama P-Block	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Crown</li> </ul>	
	Yamakin KZR-CAD	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Crown</li> </ul>	
	GC Cerasmart	<ul style="list-style-type: none"> <li>_Inlay/Onlay</li> <li>_Veneer</li> <li>_Crowns</li> <li>_Implant-supported crowns</li> </ul>	

RESINS

	ND Model 2.0 for ceramill	_Models
	ND Cast for ceramill	_Partial dentures
	ND C&B MFH for ceramill	<ul style="list-style-type: none"> <li>_Crowns</li> <li>_Bridges</li> </ul>
	ND Try-In for ceramill	<ul style="list-style-type: none"> <li>_Mock-Up</li> <li>_Try In</li> </ul>
	ND Denture 3D+ for ceramill	_Denture bases

	ND SG for ceramill	_Drilling templates
	ND Tray for ceramill	_Individual trays
	ND Ortho Rigid for ceramill	_Therapeutic splints
	ND Gingiva Mask for ceramill	_Flexible gingiva masks

## zolid dna generation

GREATER VARIETY WITH ZIRCONIA - MULTI-INDICATIVE, HIGHLY AESTHETIC, RELIABLE.

Zircon oxide is an integral part of modern dentistry. In addition to its excellent biocompatibility, the stability, durability and aesthetics of the high-performance ceramic material are also impressive. The multi-indicative zircon-oxide from Amann Girrbach, however, not only meets the high-quality mechanical and optical properties but also satisfies the need for reliable and economical processing. The zircon oxide blanks from the Ceramill system are therefore not individual products, but part of a complete system solution in which the zircon oxide is coordinated with a compact, clear range of colouring liquids and stains.



VERSATILE, ECONOMIC, PROCESS RELIABLE.



“The material properties of Zolid Gen-X ensure that I have a safe and reproducible production process for every restoration. The high strength of the material of 1000 MPa means that it is an absolute all-rounder for routine laboratory use.”

Benjamin Votteler, MDT, Dentaltechnik Votteler GmbH & Co, Germany

“I have never seen integrated esthetics before in a monolithic zirconium oxide. Zolid FX Multilayer is a game changer!”

Lucas Lammott, CDT, M31 Dental Studio, USA



“Working with Zolid HT+ blew my mind—the combination of strength and translucency combines the advantages of Zolid and Zolid FX in a single material. With Zolid HT+, my REAX restorations are getting an unbelievable Esthetic Boost.”

Alexander Wuensche, CDT, Zahntechnik, USA



## ZIRCONIUM OXIDE MADE IN-HOUSE. MANUFACTURING OF ZOLID DNA BLANKS.

Zirconium oxide ( $ZrO_2$ ) is obtained from zirconium silicate ( $ZrSiO_4$ ) which is treated in an elaborate chemical process to form a white crystalline powder. The addition of organic binders allows the powder to be pressed to form blanks that retain their processing properties as a result of a downstream pre-sintering process. At our development and production site "Dentistry One" at our headquarters in Austria, we have state-of-the-art production plants at our disposal where we process zirconium oxide into blanks using defined and certified processes under the most stringent test conditions. Prior to release for manual or mechanical processing by our end customers, each individual blank is subject to a comprehensive quality control procedure. In this way, we ensure continued high material quality with excellent processing properties.



### SHADE AND PROCESS RELIABILITY

Aesthetically and functionally perfect restorations. Amann Girrbach developed and produced zirconia blanks with the brand name Ceramill solely and exclusively with this intention. We examine our materials for absolute shade stability according to the VITA classical shade guide with extensive tests and meticulously coordinated these to all software and hardware components. We therefore guarantee the highest shade and process reliability for the entire fabrication procedure.



### EFFICIENCY AND ECONOMY

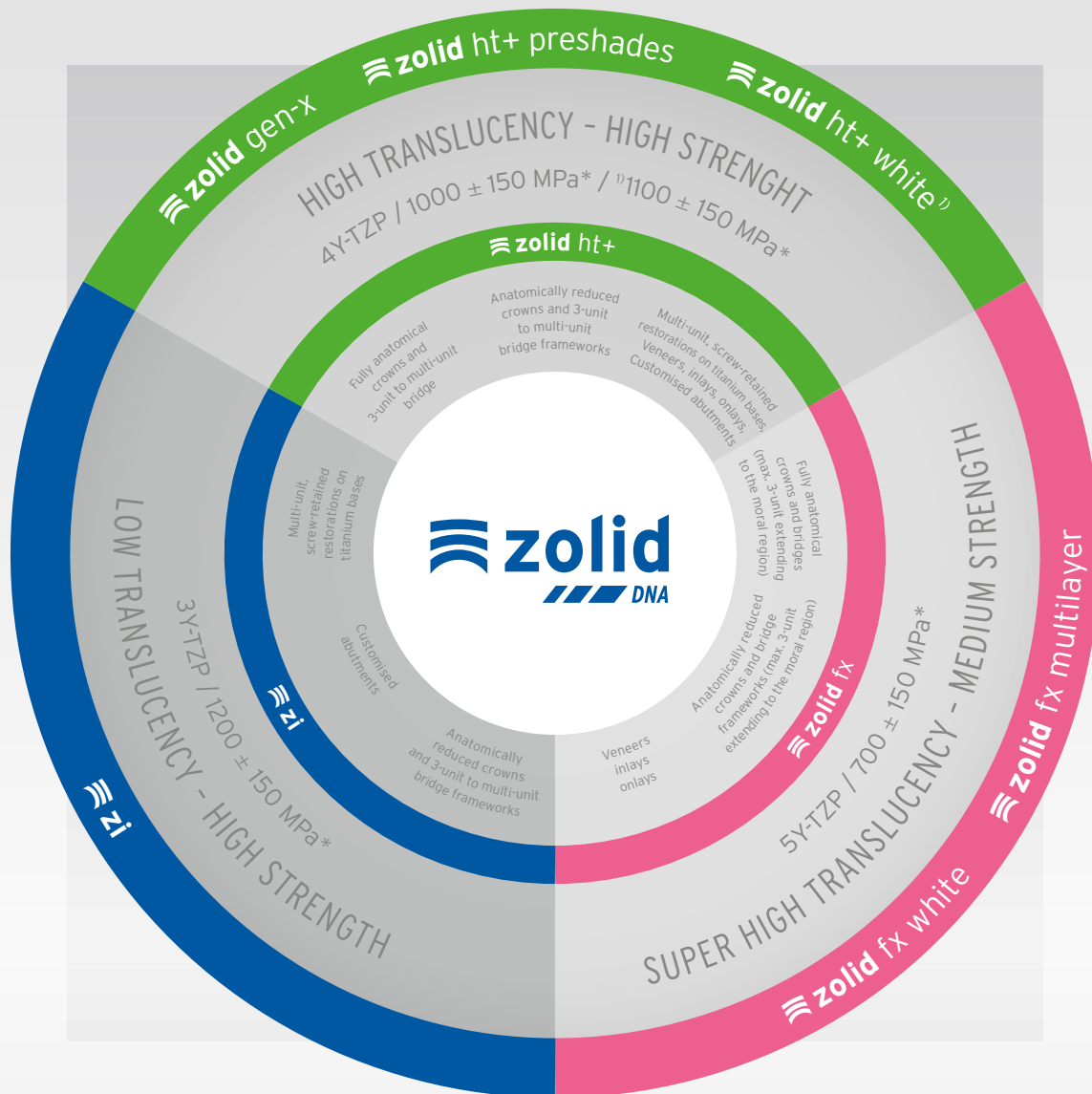
Economic, efficient processes are a cornerstone of our product and corporate philosophy. These are based on completely integrated system components, which make your working processes easy and efficient. Amann Girrbach provides its customers with a versatile and economic overall concept comprising zirconia blanks and coloring solutions with which you can meet all the requirements in terms of aesthetics and range of indications.



### QUALITY

Zircon oxide  $\neq$  zircon oxide. If the zirconia blanks on the market are assessed according to their chemical composition, hardly any differences are noticeable. However, the mechanical and optical characteristics are largely determined by the manufacturing process of the material - for us the decisive argument for in-house production of zirconia blanks. This allows us to guarantee a secure, quality manufacturing process and constantly high material quality.

ONE SYSTEM - ALL POSSIBILITIES.






CAD/CAM MATERIAL

- \_Wide range of indications and customisation thanks to white and pre-stained blanks in different levels of translucency
- \_Finely coordinated shade concepts according to the VITA classical shade guide guarantee accurate, reproducible results
- \_Material-specific milling strategies enable highly precise, yet easy processing
- \_Inhouse blank production according to strict manufacturing standards ensures an excellent and constant high-quality standard
- \_Comprehensive training offer for processing the Zolid DNA generation

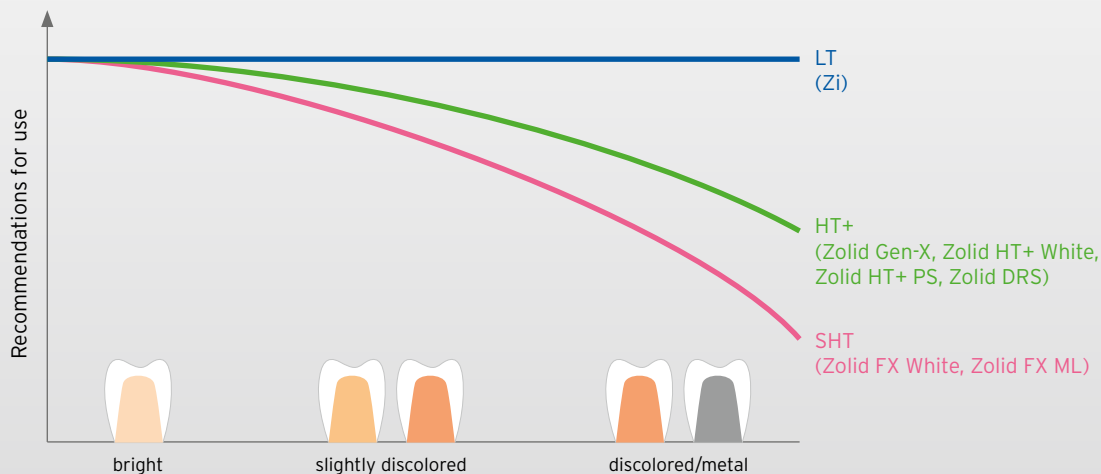
\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D AmannGirrbach

## ESTHETIC MANAGEMENT AND PROCESSING

The optimum zirconium oxide for an indication is determined by a host of different factors. Esthetic requirements, the position of the denture in the patient's mouth or the shade of the stump have a decisive influence on the choice of material. The more precisely the shade of the stump, the material and the indication are matched, the more predictable and esthetically accurate the final result will be realized.

Stump shade	Translucency	Product	Processing				Indication							
			Brush /immersion technique	Staining technique	Cutback technique	Layering technique	Veneer	Inlay	Onlay	Anterior and posterior crown	3-pontic bridge (incl. molar region)	Multi-pontic bridge	Hybrid abutment	Hybrid abutment crown
Bright 	<b>SHT</b>	Zolid FX Multilayer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Zolid FX White	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bright - slightly discolored 	<b>HT+</b>	Zolid Gen-X Multilayer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Zolid HT+ Preshades	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Zolid HT+ White	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Zolid DRS Multilayer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bright - discolored/metal 	<b>LT</b>	ZI White	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

### RECOMMENDATIONS FOR USE OF AMANN GIRRBACH ZIRCONIUM OXIDE IN TERMS OF STUMP SHADE AND DEGREE OF TRANSLUCENCY



## TECHNICAL DATA:

### FLEXURAL STRENGTH

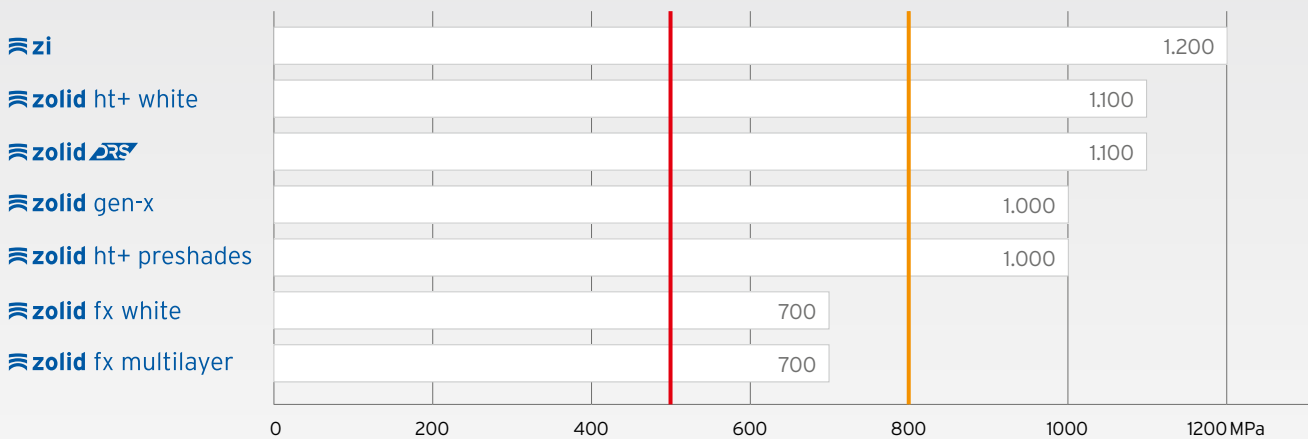
3-point flexural strength [MPa] DIN EN ISO 6872. The higher the flexural strength of zirconia (ZrO<sub>2</sub>) the better the stability under masticatory loading.

- Klasse 5 > 800 MPa according to DIN EN ISO 6872\*
- Klasse 4 > 500 MPa according to DIN EN ISO 6872\*\*

Source: Amann Gyrbach R&D

\* Minimum requirement for the fabrication of 4- to multi-pontic bridges;

\*\* Minimum requirement for the fabrication of 3-pontic bridges



### TRANSLUCENCY

The higher the translucency the more permeable the material is to light (translucent).

\* Zolid HT+ White, Zolid HT+ Preshade, Zolid Gen-X, Zolid DRS

\*\* Zolid FX White, Zolid FX Multilayer



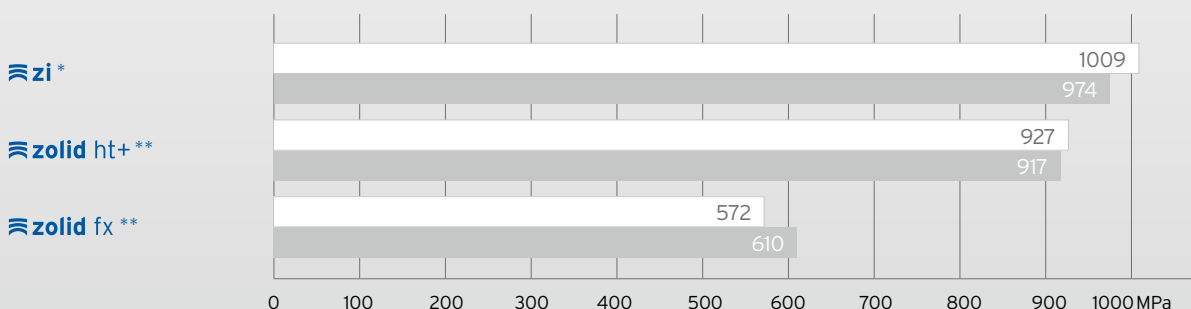
Translucency

### RESISTANCE TO AGEING

4-point flexural strength [MPa] DIN EN ISO 6872. Consistent strength values (Weibull module) after simulated mechanical ageing (1.2 million cycles, 100 N).

- prior to mechanical aging
- after mechanical aging

Results/references: \* LMU Munich; \*\* Amann Gyrbach R&D







## LOW TRANSLUCENT ZIRCONIA (LT)

High strength, rigidity and biocompatibility are outstanding characteristics of ZI.

The presintered zirconia blanks have an exceptionally high flexural strength of up to 1,200 MPa (3-point bending strength\*) and can be easily processed thanks to their optimum edge stability. With an opacity of approx. 70% ZI is ideal for indications in which discoloured tooth preparations or metal structures must be masked. It is also ideal for the fabrication of crowns and bridges in the anterior and posterior regions, customised abutments, and multi-unit, screw-retained restorations on titanium bases. ZI frameworks can be customised individually with the Ceramill Colouring Liquids New Formula using the immersion or brush technique.

### INDICATIONS

- \_ Anatomically reduced crowns and 3-unit to multi-unit bridge frameworks
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Customised abutments



- \_ Particularly suitable for wide-span frames due to the high bending strength of 1,200 MPa
- \_ Optimum edge stability and millability
- \_ High biocompatibility, strength and rigidity
- \_ Customisable using Ceramill Liquid colouring liquids

### TECHNICAL DATA

Flexural strength (3-point)*	1200 ± 150 MPa
Flexural strength (4-point)*	1000 ± 150 MPa
Modulus of elasticity	≥ 200 GPa
Coefficient of thermal expansion (CTE 25-500 °C)	10,4 ± 0,5 × 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	< 100 µg/cm <sup>2</sup>
Vickers hardness	1300 ± 200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥ 99
Y <sub>2</sub> O <sub>3</sub>	4,5 - 5,6
HfO <sub>2</sub>	≤ 5
Al <sub>2</sub> O <sub>3</sub>	≤ 0,5
other oxides	≤ 1



Ceramill Liquid CL & Ceramill Liquid New Formula Staining Solutions for ZI White



Ceramill Stain & Glaze stain and glaze materials for final aesthetic customisation

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach



Ceramill Zolid HT+ PS | Luis Manuel Rocha Saraiva



Zolid Gen-X | Amann Girrbach



Ceramill ZI | Amann Girrbach

## HIGH TRANSLUCENCY ZIRCONIA (HT+)

Zolid Gen-X puts an end to the time-consuming search for the right blank for the popular 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 allow exceeding any indication limitations.

In addition, Gen-X possesses a natural color gradient that takes the blank to a new level in terms of efficiency and esthetics.

### INDICATIONS

- \_ Fully anatomical crowns and 3-unit to multi-unit bridge
- \_ Anatomically reduced crowns and 3-unit to multi-unit bridge frameworks
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Veneers, Inlays, Onlays
- \_ Customised abutments



- \_ Reduced complexity in everyday laboratory routines through multi-indication application possibilities**
- \_ The flowing color and translucency gradient is a perfect imitation of nature**
- \_ Due to the flexural strength of over 1,000 MPa, virtually all types of indications can be realized**
- \_ The new features and all clinically proven benefits of Zolid HT+ are combined in a single material**

### TECHNICAL DATA

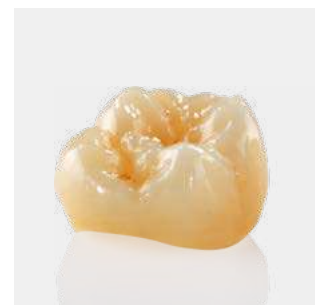
Flexural strength (3-point)*	1000±150 MPa
Flexural strength (4-point)*	900±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500°C)	10,5±0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥99
Y <sub>2</sub> O <sub>3</sub>	6,0-7,0
HfO <sub>2</sub>	≤5
Al <sub>2</sub> O <sub>3</sub>	≤0,5
other oxides	≤1



Sintering in the Zolid DNA workflow at 1450° C/h



Easy finalization with 16 A-D VITA shades and Ceramill Stain & Glaze

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach

## HIGH-TRANSLUCENT ZIRCONIA (HT)

Zolid HT+ is a highly translucent zirconium oxide which combines high mechanical characteristics with outstanding aesthetics. With its extreme edge stability, Zolid HT+ allows delicate margin design when processed with CAD/CAM. Available in 16 VITA classical tooth shades, the processing of Zolid HT+ Preshades guarantees an efficient workflow with maximum colour stability, even for large-span bridges. The range of 16 Zolid HT+ Preshade blanks allows achieving all 16 VITA tooth shades with only 7 blanks using the Ceramill Stain & Glaze Essential Kit and by applying a sophisticated stain technique.

### INDICATIONS

- \_ Fully anatomical crowns and 3-unit to multi-unit bridge
- \_ Anatomically reduced crowns and 3-unit to multi-unit bridge frameworks
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Veneers, Inlays, Onlays
- \_ Customised abutments



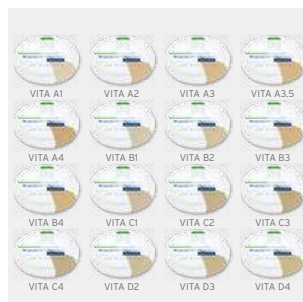
- \_ **High level aesthetics with a natural look due to increased translucency**
- \_ **High efficiency and maximum colour stability through pre-stained blanks**
- \_ **A strength of 1,000 MPa enables a broad spectrum of indications**
- \_ **Intelligent staining concept with Ceramill Stain & Glaze allows achieving 16 VITA shades with only 7 blanks**

### TECHNICAL DATA

Flexural strength (3-point)*	1000±150 MPa
Flexural strength (4-point)*	900±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500 °C)	10,4±0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥99
Y <sub>2</sub> O <sub>3</sub>	6,0-7,0
HfO <sub>2</sub>	≤5
Al <sub>2</sub> O <sub>3</sub>	≤0,5
other oxides	≤1



High efficiency and maximum color stability due to pre-stained blanks in 16 VITA colors



Ceramill Stain & Glaze stains and glazing materials for "16 from 7 - concept" or for final aesthetic customisation. \*see instructions "Staining technique"



Due to the high strength, up to 14-pontic bridges can be fabricated with Zolid HT+ Preshades

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amang Girrbaach



## HIGH-TRANSLUCENT ZIRCONIA (HT)

Zolid HT+ is a highly translucent zirconium oxide which combines high mechanical characteristics with outstanding translucency. Even complex structures such as implant-supported bridges with a gingival component radiate the vitality of natural tooth substance.

The optimized manufacturing process also has a positive effect on the milling aspects of processing. Otherwise nothing has changed in processing - Zolid HT+ is integrated harmoniously into the Amann Girrbach zirconium oxide fabrication workflow. The "new formula" Ceramill Liquids are matched perfectly to Zolid HT+ and achieve highly esthetic color shade results corresponding to the VITA shade guide.

### INDICATIONS

- \_ Fully anatomical crowns and 3-unit to multi-unit bridge
- \_ Anatomically reduced crowns and 3-unit to multi-unit bridge frameworks
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Veneers, Inlays, Onlays
- \_ Customised abutments



- \_ Full indication spectrum through high flexural strength of 1,100 MPa
- \_ Top level aesthetics with natural look due to increased translucency
- \_ Optimised processing integrated harmoniously into the AG zirconium oxide workflow

### TECHNICAL DATA

Flexural strength (3-point)*	1100±150 MPa
Flexural strength (4-point)*	1000±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500°C)	10,4±0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥ 99
Y <sub>2</sub> O <sub>3</sub>	6,7-7,2
HfO <sub>2</sub>	≤ 5
Al <sub>2</sub> O <sub>3</sub>	≤ 0,5
other oxides	≤ 1



Perfectly customised colour shade results with "new formula" Ceramill Liquids



Outstanding edge stability through optimised processing properties



Perfect for implant-supported large-span work

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach





Ceramill Zolid FX White | Amann Girrbach



Ceramill Zolid FX ML | Dental Inpulse

## POLYCHROMATIC, SUPER-HIGH TRANSLUCENT ZIRCONIA (SHT)

Zolid FX Multilayer is a polychromatic, super-high translucent zirconia with integrated shade and translucency gradient. Smooth shade transitions simulate tooth enamel, dentin and cervical shades in a naturally fluent progression without disruptive shade edges. The tooth-like preshading allows efficient, economical processing without the staining procedure.

Restorations can be further customized after sintering to achieve more aesthetic results using stains and glazing porcelains of the Ceramill Stain & Glaze kit.



### INDICATIONS

- \_ Fully anatomical crowns and bridges (max. 3 units extending to the molar region)
- \_ Veneers, inlays, onlays

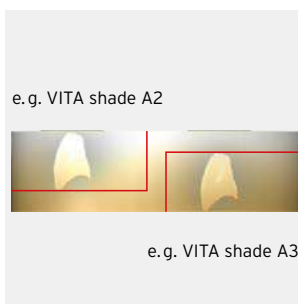
- \_ Continuous shade and translucency gradient for smooth shade transitions without shade edges, and natural aesthetics**
- \_ High bending strength in comparison with glass-ceramics enables fabrication of up to 3-unit bridges, including in the molar region**
- \_ Intelligent nesting concept guarantees accurate matching of the VITA shades and economic working in the lab**

### TECHNICAL DATA

Flexural strength (3-point)*	700±150 MPa
Flexural strength (4-point)*	600±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500°C)	10,1±0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥ 99
Y <sub>2</sub> O <sub>3</sub>	8,5-9,5
HfO <sub>2</sub>	≤ 5
Al <sub>2</sub> O <sub>3</sub>	≤ 0,5
other oxides	≤ 1



Intelligent nesting concept according to the VITA classical shade guide



Ceramill Stain & Glaze stains and glaze porcelains for final aesthetic customization

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach

## SUPER HIGH-TRANSLUCENT ZIRCONIA (SHT)

Zolid FX White, these are super-high translucent zirconia blanks used for monolithic or anatomically reduced anterior restorations and up to 3-unit bridges in the molar region. The high-performance ceramic combines the outstanding processing characteristics of zirconia with comparable translucency previously only known in lithium disilicate. The result is highly aesthetic restorations with permanent strength and stability. Restorations are processed and fitted intraorally without additional cost using commercially available luting material.

### INDICATIONS

- \_ Fully anatomical crowns and bridges (max. 3 units extending to the molar region)
- \_ Anatomically reduced crown and bridge frameworks (max. 3 units extending to the molar region)
- \_ Veneers, inlays, onlays



**\_ Super-high translucent zirconia for highly aesthetic results in the anterior and posterior regions**

**\_ High bending strength compared with glass-ceramics enables fabrication of up to 3-unit bridges, including in the molar region**

**\_ Intelligent, simple shade concept with the Ceramill Liquids FX according to the VITA classical shade guide**

### TECHNICAL DATA

Flexural strength (3-point)*	700±150 MPa
Flexural strength (4-point)*	600±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500°C)	10,1±0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥99
Y <sub>2</sub> O <sub>3</sub>	8,5-9,5
HfO <sub>2</sub>	≤5
Al <sub>2</sub> O <sub>3</sub>	≤0,5
other oxides	≤1



Ceramill Liquid FX colour solutions for Zolid FX White



Ceramill Stain & Glaze stain and glaze porcelains for final aesthetic customisation

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach

## HIGH TRANSLUCENCY ZIRCONIUM OXIDE (HT+)

The specifically developed Zolid DRS material in combination with the specially developed speed sintering furnace ensure a fast and safe workflow from start to finish. Be it for the daily sintering of crowns and bridges, the quick zirconium crown in between or as a backup solution - the Ceramill Therm DRS can be integrated effectively into the daily laboratory routine.

Zolid DRS 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 fabrication of up to 3-pontic bridges.

### INDICATIONS\*

- \_ Fully anatomical crowns and bridges (max. 3 units extending to the molar region)
- \_ Anatomically reduced crown and bridge frameworks (max. 3 units extending to the molar region)
- \_ Veneers, inlays, onlays
- \_ Customised abutments

\*Due to the delivery form (block form) of Zolid DRS, bridges of up to three pontics only can be fabricated.



- \_ The natural translucency with integrated color gradient creates natural restorations in next to no time**
- \_ The 16 shades, which are perfectly matched to the VITA shade guide, ensure unerring and esthetic results for the laboratory**
- \_ Despite the shortened sintering time, there is no relevant influence on esthetics or strength for restorations up to 3 pontics**

### TECHNICAL DATA

Flexural strength (3-point)*	1100±150 MPa
Modulus of elasticity	≥200 GPa
Coefficient of thermal expansion (CTE 25-500 °C)	10,5±0,5 x 10 <sup>-6</sup> /K
Chemical solubility	<100 µg/cm <sup>2</sup>
Vickers hardness	1300±200 HV10

### CHEMICAL COMPOSITION

	Mass percentage
ZrO <sub>2</sub> + HfO <sub>2</sub> + Y <sub>2</sub> O <sub>3</sub>	≥99
Y <sub>2</sub> O <sub>3</sub>	6,0-7,0
HfO <sub>2</sub>	≤5
Al <sub>2</sub> O <sub>3</sub>	≤0,5
other oxides	≤1

\*Average of three-point bending test as defined in DIN EN ISO 6872, R&D Amann Girrbach







AS ESTHETICS ARE NOT HAPPENSTANCE.



“AG Esthetic Management” makes the fabrication of highly esthetic restorations from zirconium oxide easier than ever before for users of the Zolid system. 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 zirconium oxide 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 zirconium oxide**



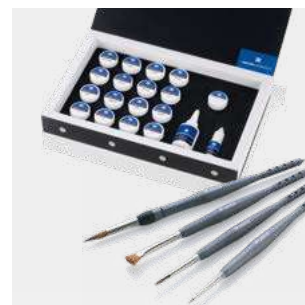
Matched materials - Ceramill A-Temp and Zolid zirconium oxide



Remove and Refine - finishing zirconium oxide, simple and safe



Internal Finish - maximum individuality owing to coordinated staining liquids and accessories



External Finish - the perfect finish due to optimal tools

## METALLE

### CAD/CAM MATERIALS FOR THE HIGHEST REQUIREMENTS.

The quality of restoration materials decisively influences the aesthetics and durability of restorations and thus significantly contributes to the wellbeing of the patient. The abundance of CAD/CAM materials available on the market today enables restorations to be fabricated with ever more specific materials optimized for the respective indication. With materials from the Ceramill material portfolio you work with the highest quality restoration materials. We combine materials developed and produced in-house at Amann Girrbach headquarters in Austria with materials of selected cooperation partners with which we expand and complete in our product portfolio for you in close collaboration. Discover the range of Ceramill materials for yourself and your patients!





„Ceramill Sintron has maximized the cost efficiency of my laboratory.”

Łukasz Sopałowic, CDT, Lider-Tech Laboratory, Poland

“This biocompatible sintering metal has a very good bonding strength and can be used for both metal frames and full-contour crowns.”

Atsushi Hasegaw, CDT, Organ Dental Lab, Japan



“Ceramill Sintron has become indispensable in my laboratory”

Jörg Schönthal, CDT, Dentaltechnik Dr. Lerner, Germany



Ceramill Sintron | Amann Girrbach



Ceramill Sintron | Amann Girrbach



Ceramill Sintron | Atsushi Hasegawa



## MILL CoCr - AS EASILY AS WAX.

High innovation strength is incorporated in the Ceramill Sintron CoCr sinter metal. The non-precious metal revolutionises the manufacturing process, as the wax-like texture of the Ceramill Sintron blanks allows them to be effortlessly dry milled on inhouse benchtop machines such as the Ceramill Motion. The labour-intensive and error-prone casting procedure and therefore time-consuming manual working stages are no longer required. The sinter process is also extremely easy: the press of a button is sufficient for producing a framework with excellent structure quality. Maximum process reliability produces homogeneous, distortion-free frameworks without contraction cavities. Using the new Ceramill Sintron it is possible to achieve predictable, reproducible fit and framework quality. Ceramill Sintron can be veneered using any CoCr framework porcelain.



### INDICATIONS

- \_ Telescope and conical crowns
- \_ Customised abutments
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Anatomically reduced and fully anatomical crown and bridge frameworks in the anterior and posterior region

- \_ **Wax-like texture for minimum cutter wear and effortless milling in the dry mode**
- \_ **Easy handling thanks to easy reworking and finishing of milled restorations in the green state**
- \_ **Maximum process reliability thanks to homogeneous, distortion-free framework**
- \_ **Excellent strength values, bonding strength and biocompatibility**



Ceramill Sintron was developed in collaboration with the Fraunhofer IFAM Dresden.

### TECHNICAL DATA

Elongation at rupture	30%
Proof stress (Rp 0.2%)	450 MPa
Modulus of elasticity	200 GPa
Coefficient of thermal expansion (CTE 25-500°C)	14,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Vickers hardness	270 HV10
Tensile strength (Rm)	900 MPa

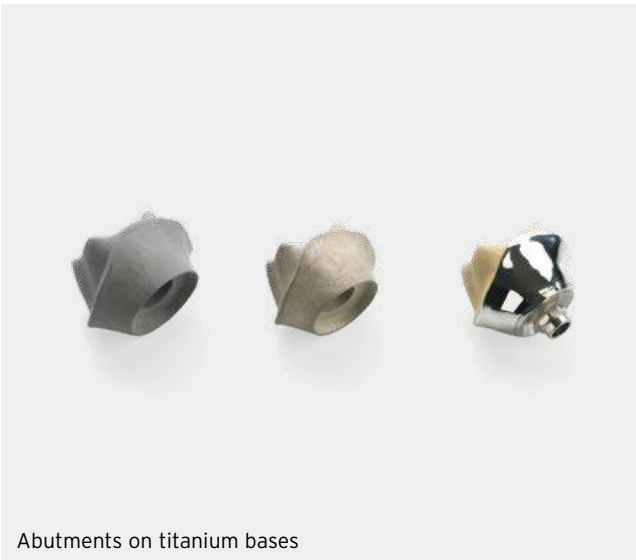
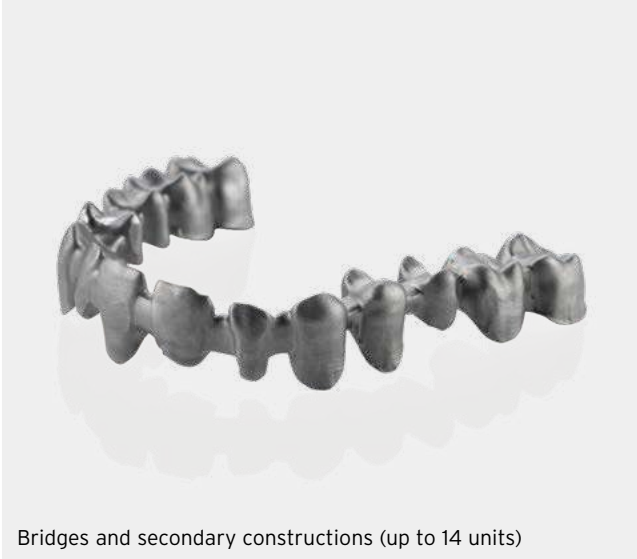
### CHEMICAL COMPOSITION

	Mass percentage
Cobalt (Co)	66
Chrome (Cr)	28
Molybdenum (Mo)	5
Organic binder (for blanks in blank condition)	1-2
Further elements (Mn, Si, Fe)	<1
Further elements (C)	<0,1

The alloy does not contain nickel, beryllium, gallium or cadmium according to DIN EN ISO 22674.



# CERAMILL SINTRON INDICATION OVERVIEW



## INTELLIGENT SHIELDING GAS SINTERING FOR CERAMILL SINTRON

Ceramill Argotherm 2 is a high-temperature furnace, specially developed for sintering Ceramill Sintron restorations and optimally coordinated with the components of the Ceramill CAD/CAM system. This is because only the perfect adaptation of sinter metal, processing in the CAD/CAM system and completion in the sinter furnace ensures consistently high material quality - especially when it involves the mechanical properties and the structure of the finished restoration.

Easy to operate at the press of a button, the Ceramill Argotherm 2 controls the sinter programme of the milled CoCr units and guarantees predictable and distortion-free results without contraction cavities. The "core" of the system, the removable sinter chamber Ceramill Argovent, ensures minimal consumption of argon gas and homogeneous, distortion-free sintering of the restorations.

The compact furnace with minimum space requirements is used as a benchtop model and cools actively after sintering.



- \_ Constantly high sinter quality thanks to the specially developed sinter program**
- \_ Integrated compressed-air and shielding gas monitoring ensure maximum process reliability and minimum shielding gas consumption**
- \_ Sintering at the press of a button - easy to operate using touch-screen technology with sinter-progress and time-remaining display**
- \_ Capacity per sinter cycle: up to 40 units**

Amann Girschbach has developed a special zircon oxide float sintering disk for the fabrication of long-span bridges. Support pins and sintering bars on the restoration keep the framework stable during sintering and ensure predictable, accurate results.



Ceramill Float Sintering

## COCR HARD METAL MILLING WITH THE CERAMILL MATIK

With the introduction of the Ceramill Matik, Amann Girrbach offers a milling machine for processing hard metal CoCr blanks. We recommend the exclusive use of CoCr blanks validated by Amann Girrbach with the Ceramill Matik, as the MoguCera C Disc from Scheftner Dental was tested and validated on the Ceramill Matik. This ensures a safe process and consistently good results when using the hard metal CoCr blank. MoguCera C Disc is based on an established ceramic alloy that is used in the conventional casting technique. Due to the excellent metal-ceramic bond, the MoguCera C Disc can also be used for frames for subsequent ceramic veneering.

### INDICATIONS

- \_ Anatomically reduced and fully anatomical crown and bridge frameworks in the anterior and posterior region
- \_ Telescope and conical crowns
- \_ Multi-unit, screw-retained restorations on titanium bases
- \_ Customised abutments



- \_ **Validated process when using MoguCera C Disc on the Ceramill Matik**
- \_ **Excellent metal-ceramic bond for possible ceramic veneering of the CoCr restoration**
- \_ **Excellent strength values, bonding strength, and biocompatibility**
- \_ **Maximum process safety due to homogeneous and distortion free frames**

VALIDATED MATERIAL  
for processing hard metal on  
the Ceramill Matik

### TECHNICAL DATA

Elongation at break	12 %
Yield strength (Rp 0,2%)	413 MPa
Tensile strength	597 MPa
E-modulus (E)	206 GPa
Vickers hardness	288HV10
Density	8,3g/cm <sup>3</sup>
CTE (20-500°C)	14,5 * 10 <sup>-6</sup> /K <sup>1</sup>
CTE (20-600°C)	14,8 * 10 <sup>-6</sup> /K <sup>24</sup>
Laser-weldable	Yes
Type (DIN EN ISO 22674)	4

### CHEMICAL COMPOSITION

	Mass percentage
Co	65
Cr	28
Mo	5
C, Si, Nb, Mn, Fe	<1

## TI-FORMS

The Ceramill TI-Forms process stands for the processing of titanium abutment blanks with pre-fabricated connection geometries, from which individual one-piece titanium abutments can be fabricated in-house. The blanks that are available for a wide range of conventional implant systems achieve outstanding surface quality thanks to the technology and the Ceramill TI-Form process of rotational milling (Ceramill Motion 2) and multi-axis processing (Ceramill Matik) and are characterized by high biocompatibility due to the use of the established material Ti6Al4V (medical grade 5, ASTM 136).



### INDICATIONS

- \_ Customised, one-piece titanium abutments

- \_ High level of biocompatibility due to the proven material Ti6Al4V (medical grade 5, ASTM 136)**
- \_ Titanium abutment blanks available for all common implant systems**
- \_ Safe and precise due to industrially prefabricated implant connection geometries**
- \_ High time and cost savings as well as low tool wear thanks to the rotational milling technique (Ceramill Motion 2) and multi-axis processing (Ceramill Matik)**

### TECHNICAL DATA

Average linear CTE	9,3 x 10 <sup>-6</sup> K
Thermal conductivity at 20°C	7,1 W/mK
Density	4,43 g/cm <sup>3</sup>
Tensile strength (Rm)	860 N/mm <sup>2</sup>

### CHEMICAL COMPOSITION

	Mass percentage
Aluminium (Al)	5,5-6,75
Vanadium (V)	3,5-4,5
Iron (Fe)	max. 0,3
Oxygen (O)	max. 0,2
Carbon (C)	max. 0,08
Nitrogen (N)	max. 0,05
Hydrogen (H)	max. 0,015
Titanium (Ti)	rest



## POLYMERS/WAX

### CAD/CAM MATERIALS FOR THE HIGHEST REQUIREMENTS.

Along with premium zirconia and metals, Amann Girrbach also has a large product portfolio of polymers and waxes. The PMMA-based materials are carried in the A-Line and impress thanks to their wearing time of up to one year. The products Ceramill A-Temp and Ceramill A-Temp Multilayer were adapted directly to the shading of the zirconia Zolid FX Multilayer in regard to the tooth shades. The various materials in the A-Line as well as the other polymers and waxes mean that Amann Girrbach opens up the possibility of using these materials for the most diverse indications. From Ceramill PEEK for clasp-retained removable partial dentures to Ceramill Wax for lost molds. For every indication, there is precisely the right product!





"The new Ceramill A-Temp is an absolute must for every laboratory. The perfect shade determination between the temporary and the final Zolid zirconium oxide restoration is impressive – it makes work fun!"

Alfonso Blanco Pose, DT, Cyro Blanco Tecnica Dental, Uruguay

"The material properties of Ceramill A-Temp Multilayer and its shade gradient that is perfectly coordinated with the zirconium oxide from Amann Girrbach mean that every user can achieve highly esthetic results."

Luís Manuel Rocha Saraiva CDT, Portugal



"The simple processability of the new material for splints, Ceramill A-Splint, and the smooth and homogeneous surface achieved immediately after the milling process ensures high wearing comfort for the patient."

Łukasz Sopałowicz, CDT, Lider-Tech Laboratory, Poland





Ceramil A-Splint | Amann Girrbach



Ceramil A-Temp Multilayer | David May



Ceramil A-Temp | Amann Girrbach

## TEMPORARY ACRYLIC

Ceramill A-Temp, an easy to process acrylic, is suitable for long-term temporary restorations. Ceramill A-Temp is available as a monochromatic blank and as a "multilayer" with shade gradient from dentine to incisal. A-D shades of A-Temp blanks coordinated with Zolid DNA Generation ensure high-end aesthetics and reliable, familiar processes. Conventional cutters and trimmers as well as polishing pastes can be used for preparation and polishing. A-Temp temporary restorations can be fabricated fully anatomically and can also be veneered with conventional crown and bridge resins. They are suitable for checking the fit and functionality of the actual restoration before it is finished, whereby the tooth-coloured material increases the acceptance of the try-in.



## INDICATIONS

- \_ Temporary anterior and posterior crowns
- \_ Temporary anterior and posterior bridges with a maximum of two connected pontics
- \_ Verifying the fit on the plaster model/ mouth before the final restoration

- \_ **Highest esthetics due to perfectly matched VITA A-D shades for the Zolid DNA Generation**
- \_ **Acrylic for long-term temporary restorations with a wearing time of up to one year**
- \_ **The new block shape as a solution for smaller restorations and to lower stock costs**

## TECHNICAL DATA

Flexural strength (3-point)	135 MPa
Density	1.19 g/cm <sup>3</sup>
Vickers hardness	24 HV0.2
Water uptake	<25 µg/mm <sup>3</sup>
Chemical solubility	<0.6 µg/mm <sup>3</sup>
Residual monomer content	<1%

## CHEMICAL COMPOSITION

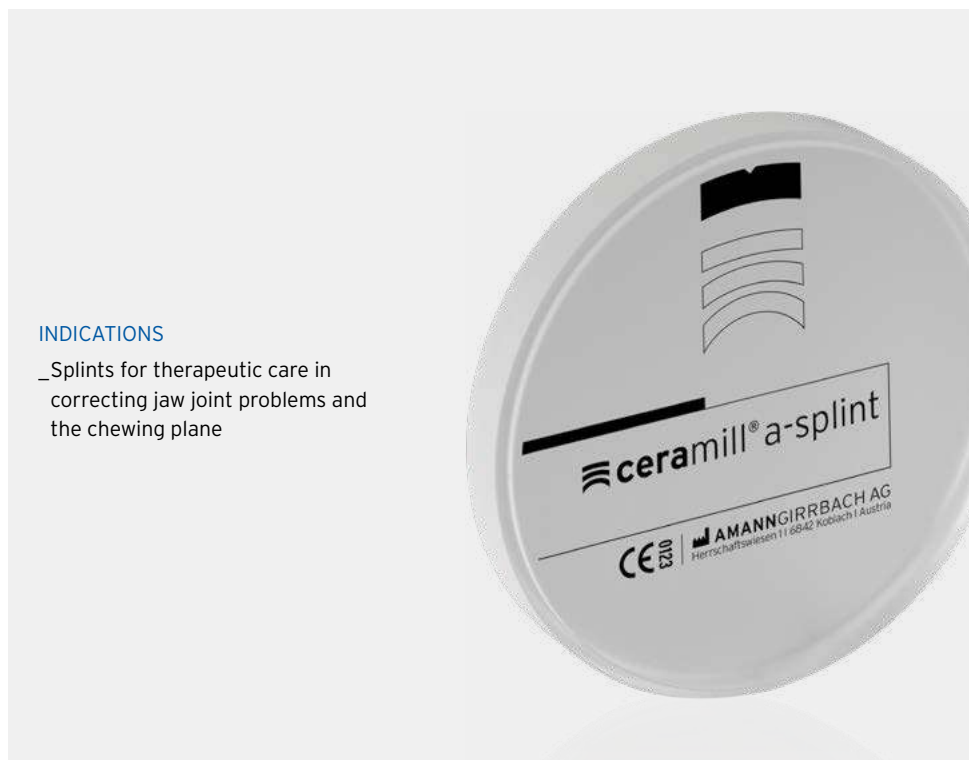
PMMA (polymethyl methacrylate)
Colouring pigments

## SPLINTS-ACRYLIC

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 prefabricated 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.

### INDICATIONS

- \_ Splints for therapeutic care in correcting jaw joint problems and the chewing plane



- \_ Process reliability and massive time savings due to digital fabrication process**
- \_ Industrially manufactured, homogeneous splint material guarantees optimum wearing comfort due to neutral taste and odor**
- \_ Acrylic for long-term application with a wearing time of up to one year**

### TECHNICAL DATA

Flexural strength (3-point)	>100 MPa
Density	1.19 g/cm <sup>3</sup>
Vickers hardness	24 HVO.2
Water absorption	<25 µg/mm <sup>3</sup>
Chemical solubility	<0.7 µg/mm <sup>3</sup>
Residual monomer content	<1 %

### CHEMICAL COMPOSITION

PMMA (polymethyl methacrylate)



## TRANSPARENT ACRYLIC

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.

### INDICATIONS

\_ Fabrication of lost molds for the casting/pressing technique



- \_ Simple and reproducible CAD/CAM fabrication
- \_ Contamination-free casting results due to residue-free combustion
- \_ Industrially prefabricated material (free of air pockets and pores)

### TECHNISCHE DATEN

Flexural strength (3-point)	>100 MPa
Density	1.19 g/cm <sup>3</sup>
Vickers hardness	24 HV0.2

### CHEMICAL COMPOSITION

PMMA (polymethyl methacrylate)

## MILLING WAX

Ceramill Wax milling wax can be processed user-friendly and reproducibly. The easy handling properties of the material are impressive: no smearing or melting of the material or clogging of the cutter. This creates accurately fitting final results, which facilitate the subsequent casting and press procedures. Ceramill Wax burns out without residue during the preheating process.

Amann Girrbach supplies Ceramill Wax in two colours. Users can choose between white and grey.

### INDICATIONS

- \_ Frameworks for the casting and press technique



**\_ Easy, reproducible CAD/CAM-controlled fabrication of wax patterns facilitate the casting and press techniques**

**\_ Virtually no cutter wear or clogging of the cutter by wax**

**\_ Burnout without residue ensures perfect casting results**

### TECHNICAL DATA

Dripping point	100-120 °C
Flash point	>220 °C
Density at 23 °C	0.92-0.96 g/cm <sup>3</sup>
Viscosity at 120 °C	>120 MPa
Shade	grey and white

### CHEMICAL COMPOSITION

Polyethylene wax

## PEEK POLYMER

Ceramill PEEK is a high-performance polymer for the digital fabrication of removable and fixed restorations such as crowns, bridges, secondary and telescope restorations, attachment restorations or screw-retained, implant-supported superstructures. Specially developed for the CAD/CAM technique, the material is based on a high-performance PEEK polymer with ensures its long-term use. PEEK sets a new standard in high-performance materials for dental restorations with more than ten years of proven experience and successful use with human implants. Ceramill PEEK is available in the shades "Natural" (beige) and "White" (cream white).



### INDICATIONS

- \_ Crowns and bridges (max. 3-unit)
- \_ Secondary and telescope restorations
- \_ Attachment restorations
- \_ Screw-retained, implant-supported superstructures

- \_ High resistance to wear, abrasion and corrosion**
- \_ Bone-like modulus of elasticity for high strength with simultaneous flexibility**
- \_ A combination of strength and low weight ensures pleasant oral comfort**
- \_ Metal-free and biocompatible - ideal for patients with a metal allergy**

### TECHNICAL DATA

Flexural strength	170 MPa
Flexural modulus	4 GPa
Solubility	insoluble
Melting point	343 °C
Self-ignition temperature	595 °C

### CHEMICAL COMPOSITION

Polyetheretherketone

## MODEL RESIN

Ceramill M-Plast is a polyurethane model resin for digital fabrication of precision models. The material can be extremely easily dry milled and its high fracture resistance and shape and abrasion stability are also impressive features. After processing, a precise model is created with a flawless, detailed surface, which retains its dimensions even with steam cleaning.

### INDICATIONS

\_ Models



**\_ High dimensional stability without water absorption**

**\_ Excellent edge stability and millability**

**\_ Very low tool wear**

### TECHNICAL DATA

Flexural strength	61 MPa
Shore D hardness	80
Compressive strength	46 MPa
Temperature stability	59 °C
Density	1.00 g/cm <sup>3</sup>

### CHEMISCHE ZUSAMMENSETZUNG

Polyurethane

## HYBRIDS/CERAMICS

### CAD/CAM MATERIALS FOR THE HIGHEST DEMANDS.

The hybrid and ceramic blocks are optimal for fabricating single crowns, veneers, inlays, or onlays. Their high translucency means that esthetic results are guaranteed. With the materials from the Ceramill portfolio, the user works with restoration materials of the highest quality. Materials from in-house development and production at Amann Girrbach headquarters in Austria are combined with materials from selected partners with whom we expand and complete our product portfolio in a close collaboration—for the comfort and maximum flexibility of our customers!



## VITA VITA ENAMIC®

### HYBRID CERAMIC

VITA ENAMIC® hybrid ceramic blocks are characterized by a dual network structure, which combines the positive properties of composite and ceramic. With this material the dominating ceramic network is reinforced by a polymer network with both networks fully integrated. Analogous to the Ceramill material range VITA ENAMIC® blanks have been optimally incorporated in the Ceramill CAD/CAM system workflow. VITA ENAMIC® is available in five 3D Master shades and two levels of translucency. VITA ENAMIC® multicolor for Ceramill are CAD/CAM blanks which feature an integrated, finely nuanced colour gradient from the neck to the edge. The blank with AG holder is available in five common VITA shades.

#### INDICATIONS

\_ Crowns, inlays, onlays, veneers and crowns on implants



#### TECHNICAL DATA

Flexural strength	150-160 MPa
Fracture toughness	1.5 MPa√m
Modulus of elasticity	30 GPa
Hardness	2.5 GPa
Weibull module	20

#### CHEMICAL COMPOSITION

	Mass percentage
SiO <sub>2</sub>	58-63
Al <sub>2</sub> O <sub>3</sub>	20-23
Na <sub>2</sub> O	9-11
K <sub>2</sub> O	4-6
B <sub>2</sub> O <sub>3</sub>	0,5-2
CaO	<1
ZrO <sub>2</sub>	<1

- \_ Enormous loading capacity due to absorption of the masticatory forces
- \_ High reliability and integrated crack-stop function
- \_ Excellent edge stability
- \_ The multicolor blank also excels by virtue of natural shade effects due to its integrated shade gradient





VITA TriLuxe forte | Amann Girrbach



VITA enamic | Amann Girrbach

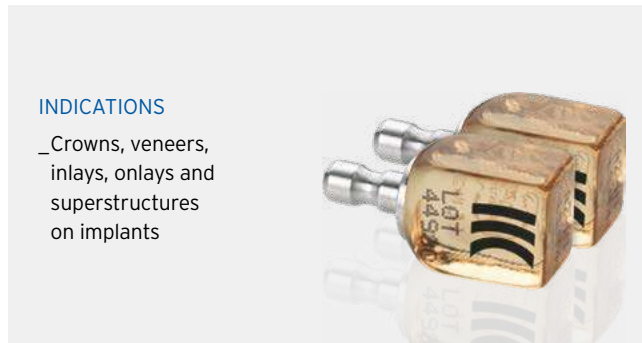


VITA suprinity | Amann Girrbach

## ZIRCONIA-REINFORCED LITHIUM SILICATE CERAMIC

VITA SUPRINITY® PC is a zirconia-reinforced lithium silicate ceramic (ZLS)\* and the product of a new glass-ceramic material generation. It is characterized by a particularly fine-grain and homogeneous microstructure, which ensures an excellent material quality and therefore consistently high loading capacity and long-term reliability. In addition, the material has outstanding processing characteristics such as easy grinding and polishing properties. Integrated translucency, fluorescence and opalescence provide an optimal basis for impressively natural aesthetic restorations.

\* This material class is a joint development of VITA Zahnfabrik, DeguDent GmbH and the Fraunhofer Institute for Silicate Research ISC.



### INDICATIONS

\_ Crowns, veneers, inlays, onlays and superstructures on implants

### TECHNICAL DATA

Flexural strength (3-point)	~ 420 MPa
Modulus of elasticity	~ 70 GPa
Coefficient of thermal expansion (CTE 25-500 °C)	~ 12,3 ± 0,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Chemical solubility	~ 40 µg/cm <sup>2</sup>
Softening temperature	~ 800 °C
Hardness	~ 7000 MPa
Transformation temperature (TG)	~ 620 °C

### CHEMICAL COMPOSITION

	Mass percentage
SiO <sub>2</sub>	56-64
Li <sub>2</sub> O	15-21
ZrO <sub>2</sub>	8-12
P <sub>2</sub> O <sub>5</sub>	3-8
Al <sub>2</sub> O <sub>3</sub>	1-4
K <sub>2</sub> O	1-4
CeO <sub>2</sub>	0-4
Pigmentes	0-6

- \_ Excellent material quality thanks to fine-grained, homogeneous microstructure
- \_ Zirconia proportion ensures a constantly high loading capacity and long-term reliability
- \_ Translucency, fluorescence and opalescence guarantee aesthetic results

# VITA VITABLOCS® Mark II & TriLuxe forte

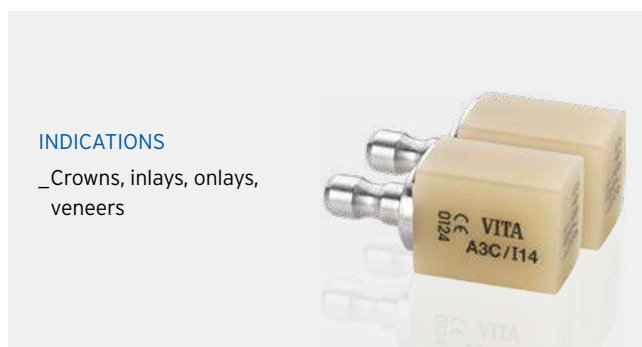
## FELDSPAR CERAMIC

### VITABLOCS® MARK II

The very fine structure of the Mark II and the industrial sinter process are the reasons for the good polishability and excellent enamel-like abrasion characteristics of restorations fabricated using VITABLOCS® Mark II. The material and processing technology advantages of feldspar ceramic, which have been verified by scientific studies, correlate with more than 9 million restorations that have now been fabricated to date using Mark II very fine-structure feldspar ceramic blocks.

### VITABLOCS® TRILUXE FORTE

VITABLOCS® TriLuxe forte is a VITABLOCS® generation with four levels of shade intensity based on the VITABLOCS® Mark II, which have been successfully proven a million times over in clinical use for more than 20 years. The shade transition from enamel to cervical area layer is even finer nuanced in 4 layers: enamel-dentine-intensive dentine-cervical layer, with a greater accentuation of the chroma in the cervical area. In combination with the cervically increasing fluorescence this also ensures a natural shade effect, even with thin layer thicknesses.



### INDICATIONS

\_ Crowns, inlays, onlays, veneers

### TECHNICAL DATA

Flexural strength	154 ± 15 MPa
Modulus of elasticity	45 ± 0,5 GPa
Coefficient of thermal expansion (CTE 25-500 °C)	~ 9,4 ± 0,1 x 10 <sup>-6</sup> K <sup>-1</sup>
Density	2,44 ± 0,01 g/cm <sup>3</sup>
Transformation zone	780-790 °C

### CHEMICAL COMPOSITION

	Mass percentage
SiO <sub>2</sub>	56-64
Al <sub>2</sub> O <sub>3</sub>	20-23
Na <sub>2</sub> O	6-9
K <sub>2</sub> O	6-8
CaO	0,3-0,6
TiO <sub>2</sub>	0,0-0,1

- \_ Good polishability and excellent enamel-like abrasion properties
- \_ No crystallization firing required
- \_ Very good translucency characteristics and chameleon effect

## 3D PRINT RESINS

### MULTITUDE OF MATERIALS OF THE NEXTDENT 5100 FOR CERAMILL

### EXCELLENT RESULTS DUE TO METICULOUS VALIDATION.











The large selection of compatible Next-Dent 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. To provide assured quality of the restorations, special attention is paid to the validation of the materials and easy handling due to predefined and integrated process parameters.

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. The diversity and the associated wide range of dental indications ensure maximum flexibility and cost-effectiveness in everyday laboratory work.













# 3D PRINT RESINS

## MATERIAL RANGE FOR 3D PRINTING

Material	The most important features at a glance	The most important indications	
<b>NextDent for Ceramill 2.0</b> 3D print material 	<ul style="list-style-type: none"> <li>_ High hardness and fracture resistance</li> <li>_ Produced generatively</li> <li>_ Highest precision and detail definition</li> </ul>	<ul style="list-style-type: none"> <li>_ Models with removable stumps (solid or hollow)</li> <li>_ Dental models for prosthetic restorations</li> <li>_ Dental models for orthodontic appliances</li> <li>_ Diagnostic and demonstration models</li> </ul>	
<b>NextDent for Ceramill Cast</b> 3D print material 	<ul style="list-style-type: none"> <li>_ High stability of the printed structures</li> <li>_ Burns out residue-free for optimum result</li> </ul>	<ul style="list-style-type: none"> <li>_ Casting / pressing technique</li> </ul>	
<b>NextDent for Ceramill C&amp;B MFH</b> 3D print material 	<ul style="list-style-type: none"> <li>_ High strength and wear resistance</li> <li>_ Natural esthetics due to different colors and coordinated translucency</li> <li>_ Biocompatible MD Class IIa material</li> </ul>	<ul style="list-style-type: none"> <li>_ Temporary crowns and bridges</li> </ul>	
<b>NextDent for Ceramill Denture 3D+</b> 3D print material 	<ul style="list-style-type: none"> <li>_ Significantly lower shrinkage than standard PMMA materials for best fit results</li> <li>_ Available in different colors for individual results</li> <li>_ Biocompatible MD Class IIa material</li> </ul>	<ul style="list-style-type: none"> <li>_ Denture bases</li> </ul>	
<b>NextDent for Ceramill Try-In</b> 3D print material 	<ul style="list-style-type: none"> <li>_ Best choice for checking digitally designed prosthetic bases with individually designed tooth setups</li> <li>_ Biocompatible MD Class I material</li> </ul>	<ul style="list-style-type: none"> <li>_ Try-in prosthetics</li> </ul>	



## MATERIAL RANGE FOR 3D PRINTING

Material	The most important features at a glance	The most important indications	
<p><b>NextDent for Ceramill SG (Surgical Guide)</b> 3D print material</p> 	<ul style="list-style-type: none"> <li>_ Easy insertion of the drilling sleeves due to highest precision</li> <li>_ Can be sterilized with standardized autoclaving protocols</li> <li>_ Biocompatible MD Class I material</li> </ul>	<ul style="list-style-type: none"> <li>_ Drilling templates</li> </ul>	
<p><b>NextDent for Ceramill Tray</b> 3D print material</p> 	<ul style="list-style-type: none"> <li>_ Quality impressions with high precision in next to no time</li> <li>_ Compatible with all types of impression materials</li> <li>_ Biocompatible MD Class I material</li> </ul>	<ul style="list-style-type: none"> <li>_ Individual trays</li> </ul>	
<p><b>NextDent for Ceramill Ortho IBT</b> 3D print material</p> 	<ul style="list-style-type: none"> <li>_ Easy positioning and application of orthodontic brackets due to precise and flexible splint material</li> <li>_ Biocompatible MD Class I material</li> </ul>	<ul style="list-style-type: none"> <li>_ Orthodontic transfer splints</li> </ul>	
<p><b>NextDent for Ceramill Ortho Rigid</b> 3D print material</p> 	<ul style="list-style-type: none"> <li>_ Fast fabrication of precisely fitting splints</li> <li>_ Biocompatible MD Class IIa material</li> </ul>	<ul style="list-style-type: none"> <li>_ Splints</li> </ul>	
<p><b>NextDent for Ceramill Gingiva Mask</b> 3D print material</p> 	<ul style="list-style-type: none"> <li>_ Easy fabrication of flexible parts such as gingival masks</li> <li>_ Best results in combination with Model 2.0</li> </ul>	<ul style="list-style-type: none"> <li>_ Gingival masks</li> </ul>	




# CLASSICS



"Artex is my secret weapon for aesthetically and functionally perfect restorative results."

Alexander Wünsche CDT,  
Zahntechnik, USA

 **smartbox X2**

 <b>smartbox X2</b>	147
 <b>smartmix X2</b>	148
 <b>steamer X3</b>	149
 <b>smartwax duo</b>	150
 <b>noflame® plus</b>	151
 <b>af350</b>	152
 <b>girobond nbs</b>	153
 <b>girobond cbs</b>	154
 <b>girobond fh</b>	155
 <b>giroinvest speed</b>	156
 <b>giroinvest super</b>	157
Alloys (overview)	158
Stones (overview)	159

## AG CLASSICS

### POWERFUL TRIO FOR CREATING THE PERFECT PLASTER MODEL.

Amann Girrbach offers specifically developed and perfectly coordinated solutions for every single work step in model fabrication—from the Smartbox X2 for perfect dosing to the Smartmix X2 for the correct mixing results, and the Steamer X3 for cleaning instruments and objects.





## PLASTER CANNOT BE SIFTED MORE EFFICIENTLY

The Smartbox X2 guarantees the consistently high quality of the dosing result and is easy to use. Due to its high savings potential, the machine pays for itself in just a few months.

With its patented dosing technology, the gypsum is sprinkled very finely into the mixing bowl, which significantly improves the homogeneity of the mixed material..



- \_ Time, material and plaster savings of 20 to 25%**
- \_ Finely sprinkled plaster using the patented plaster dosage technology**
- \_ Easy operation - error-free working for everyone**
- \_ Reproducible mixing ratio at the push of a button, accurate to within a gram**
- \_ Integrated scales automatically measure the dosage or for manual weighing**
- \_ Enables clean and dust free operation**
- \_ Various beaker volumes available**



Easy to fill the silo at the machine



One switch for everything - multi-functional dial / button



Fine plaster curtain due to new dosage technology

## PERFECT MIXTURE RESULTS THANKS TO PATENTED MIXING BLADE GEOMETRY AND AMAZINGLY SIMPLE OPERATING CONCEPT

The universal and future-proof vacuum-mixing machine with the amazingly simple operating concept.

No matter whether for the rapid production of homogeneous plasters, investment materials or paste-like silicones.



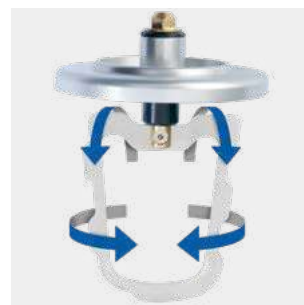
- \_Homogeneous and reproducible mixing results with optimal parameters**
- \_Fast access to all storable mixing parameters such as mixing time, speed, direction of rotation, interval time, premixing, pre-evacuation, post-vacuum and program name**
- \_Easy handling for fast program selection and programming**
- \_Space saving, can be used as a free-standing or wall unit**

### Smartmix mixing beaker

The patented mixing blade geometry of the Smartmix mixing beaker ensures optimal mixing results in all areas of application. By means of both horizontal and vertical revolution of the materials to be mixed, perfect homogeneity of mixture results is achieved



Rounded beaker base for easy cleaning



Patented mixing apparatus geometry, mixing speed up to 550 U/min



Post-vacuum-function

## UNIVERSAL STEAM CLEANER

The Steamer X3 is a high-quality, universal steam cleaner for cleaning small objects such as metal frameworks and dies as well as articulators or instruments.



- \_ Large stainless steel tank with 3.7 liter capacity**
- \_ Efficient and reliable cleaning at 4 bar and 140°C**
- \_ Highest reliability due to the use of high-quality components**
- \_ Clear function display, e.g. the minimum water quantity**
- \_ Smooth, rounded surfaces for easy cleaning**
- \_ Drain valve positioned at the very bottom guarantees complete rinsing of limescale deposits in the tank**
- \_ Floor mounted or wall mounted**



Steamer X3 is filled without funnel



The ergonomic hand piece is always within reach



Sealing lid without vulnerable pressure control valve



## EFFICIENT MODELING STATION FOR WORKING WITH TWO HANDPIECES

This unit is suitable for all kinds of modeling and wax-up work and is unbeatable in combination with the Waxjet when making full dentures. For each handpiece, 3 different temperatures within the range of 50-220°C/122-428°F can be programmed and simply switched over. This improves the soft and above all stress-free treatment of the various types of waxes.

In doing so, the excellent thermal conductivity of the instrument alloy used for the probes (more than 20 times the thermal conductivity of stainless steel) plays an important role as well.



- \_Duo-option, i.e. two different handpieces are ready for use at the same time**
- \_3 individually programmable temperatures for each handpiece**
- \_Simple and safe exchange mechanism of the modeling tips**
- \_Fast operational and heated instruments**
- \_Anti-twist cables that are insensitive to heat**
- \_Gold plated copper tips for better heat conductivity**



Change of probes without the risk of burns - snap on, snap off



Simple adjustment of individual working temperature



Waxjet available as an optional device

## SIMPLE, MOBILE, CLEAN - THE "ELECTRIC BUNSEN BURNER"

With the Noflame Plus it is no longer necessary to use conventional Bunsen burners or alcohol/gas burners when waxing up. The waxing up instrument is heated in the coil opening by induction in a matter of seconds using minimum energy consumption. This excludes carbon collecting on the waxing up instrument or in the sculpting wax. Standard waxing up instruments can be used.



- \_ Mobile and immediately operational, no gas required**
- \_ Handling as usual, no adjustment required**
- \_ Eliminates the risks of getting burned or causing fire**
- \_ No heat emission into the environment; does not consume oxygen**
- \_ Clean, i.e. no soot particles on instrument and/or material**
- \_ Saves 75% of energy expenses; saves the environment**
- \_ Ideal conditions, to be used even at the dental office**



Within seconds, the modelling instrument is heated in the coil opening



Replaceable protective caps keep the coil opening clean

## PRECISION MILLING UNIT FOR SURVEYING, BLOCKING OUT, MILLING

Stable precision milling device on solid vertical column with ball thread and playless, smooth, double-jointed arm. Milling head with micrometer screw for accurate adjustment of vertical drillings. Integrated control for micromotor, magnetic table with modular design and light connections. Micromotor can be replaced by optional analyzing rod for surveying or block out set for blocking out.

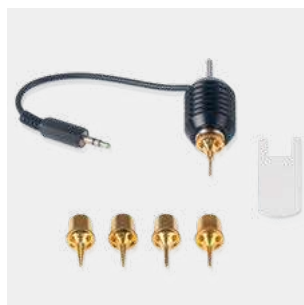


- \_ **Quick and easy fixing of the double-joint arm with one hand**
- \_ **Automatic retraction of the articulated arm via memory function**
- \_ **Model table can be magnetically fixed in its position automatically by pressing one button**
- \_ **It is possible to fix the model table MT3 at the push of a button in any angle with the patented fixing mechanism**
- \_ **Spring pressure arm resistance for vertical manoeuvrability**
- \_ **Shadow-free illumination with the LED double light fixture**
- \_ **Upgradable to an undercut and surveying machine (optional)**

Blockout Upgrade Kit AF350 adjustable for blocking out and surveying

**Delivery volume:**

- \_ Blockout set
- \_ Marker
- \_ Adapter cord, adjustable



Blockout set



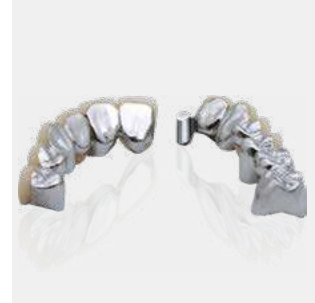
Marker



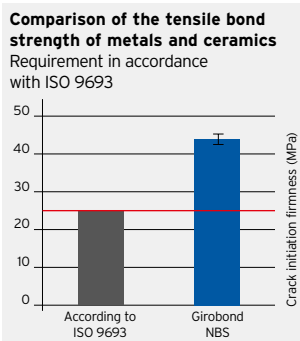
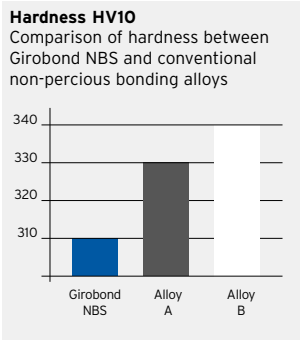
Adapter cord, adjustable

## MODERN NICKRMO BONDING ALLOY FOR CROWN AND BRIDGE WORK

Girobond NBS is a trailblazing bonding alloy for the crown and bridge technique. The specific composition of this CoCrMo alloy, with fine admixtures but no carbon content, provides optimum properties for outstanding results.



Girobond NBS metal framework with porcelain facing (Dental lab Müsle, Pforzheim/Germany)



- \_CrMo bonding alloy for the crown and bridge technique, free of nickel and beryllium
- \_Excellent laser welding behavior, no risk of crack development since carbon-free
- \_Also suitable as universal alloy for model-casting clasp dentures, wide-span telescopic cases, and delicate suprastructures
- \_High homogeneity within the batches and good reproducibility thanks to the optimized production process
- \_Suitable for casting with any standard method
- \_Good controllability of the melting and casting process
- \_Easy milling (310 HV10)
- \_Dense surface, good polishability, rich shine
- \_Completely unproblematic and safe facing with conventional facing porcelains which suit the coefficient of thermal expansion of Girobond NBS  $14.1 \times 10^{-6} \text{K}^{-1}$  (25-500°C)

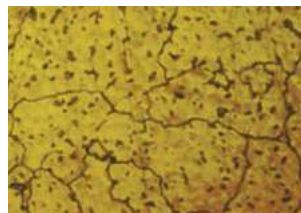


**Melting behavior of Girobond NBS**

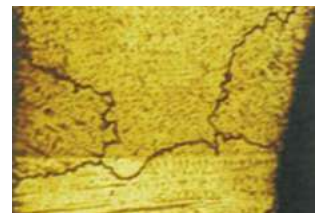
Begin of the melting; the casting cubes melt into each other

The molten metal starts to burst; However, some shadows are still visible

The surface of the molten metal shines; The metal is completely molten - Casting has to be effected immediately



Fine-grained structure of the niobium-dispersed CoCrMo bonding alloy Girobond NBS (magnification 100:1)

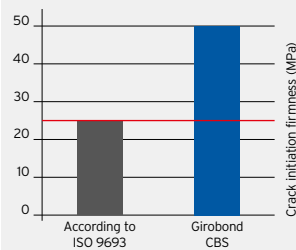


Coarse-grained structure of a conventional CoCrMo bonding alloy (magnification 100:1)

## MODERN NICRMO BONDING ALLOY FOR CROWN AND BRIDGE WORK

Carbon-free, type 3 NiCrMo bonding alloy for crowns and bridges. Due to the dispersion with Niobium, Girobond CBS is easy to polish. Biocompatible thanks to the high Mo content. According certificates are available.

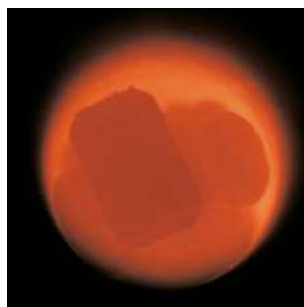
**Comparison of the metal to porcelain compound**  
Requirement in accordance with ISO 9693



Girobond CBS metal framework with porcelain facing (Dental lab Müsle, Pforzheim/Germany)

- \_ Carbon-free NiCrMo-bonding alloy for crown and bridge works (type 3)**
- \_ Good compatibility and reliability just like NBS, but softer (HV10 185) and thus easier to process**
- \_ Safe, easily workable, cost-effective material**
- \_ Optimised production process ensures high homogeneity**
- \_ Easy to cast by any method**
- \_ Carbon-free and thus no risk of crack formation; perfectly suitable for laser welding**
- \_ Due to a TCE value of  $13.8 \times 10^{-6} \text{ K}^{-1}$  (25-500°C), bonding of veneering ceramics is safe and trouble-free**
- \_ Corrosion resistance has been proven by the Centre of Dentistry, Oral Medicine and Maxillofacial Surgery, University of Tübingen (Germany)**
- \_ No overheating of the melt due to melt reflection**

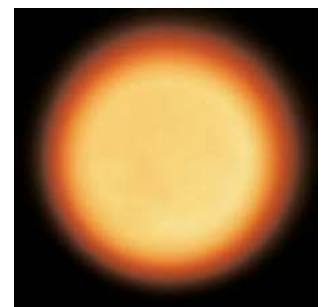
**Melting behavior of Girobond NBS/CBS**



Begin of the melting; the casting cubes melt into each other



The molten metal starts to burst; However, some shadows are still visible



The surface of the molten metal shines; The metal is completely molten - Casting has to be effected immediately



## THE IDEAL DENTURE BASE ALLOY FOR THE COMPLETE RANGE OF REMOVABLE DENTAL RESTORATIONS

Extra-hard, suitable for laser welding and easy to model – these are the requirements on a superior model casting alloy. With Girocrom FH, these requirements have become reality – a carbon-free alloy with excellent mechanical properties.

Laser welding offers dental technicians the advantages of modern joining technology and, at the same time, means maximum biological compatibility to the patient. Due to their carbon content, conventional alloys precipitate carbides during laser welding. These, in turn, have a quality-reducing effect on the welding seams and involve cracks and fractures.

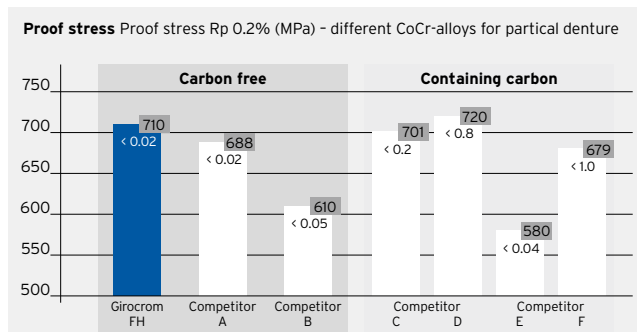


Mandibular model casting denture with clasps, Dental Lab Müsle, Pforzheim/Germany



**Girosolder out of CoCr, 3.6g as solder rods**  
Recommended for soldering of CoCrMo alloys

- \_Extra-hard denture base alloy**
- \_Improved stability**
- \_Suitable for all kinds of removable restorations, e.g. metal denture bases, combined fixed-removable restorations, telescopic cases, dentures with slide attachments or clasps**
- \_Easily activated clasps at model casting dentures, with minimized fracture risk**
- \_Carbon-free and, thus, ideal for laser welding**
- \_Easy processing and polishing; relatively low Vickers hardness HV10 of 350**
- \_Excellent biocompatibility and corrosion resistance**



Cracks caused by carbide precipitation in a CoCrMo alloy containing carbon



Laser weld without any cracks in a carbon-free CoCrMo alloy

## THE IDEAL INVESTMENT FOR GIROCROM RESTORATIONS

Giroinvest Speed is a phosphate-bonded precision investment for the model casting technique.



**\_Phosphate-bonded precision investment for model casting**

**\_Can be heated up either with the shock-heat method or conventional heating with delay**

**\_20 minutes setting time using the shock-heat method; the mold is subsequently placed into the preheated furnace heated up to a maximum temperature of 850°C; ready for casting after 60 min**

**\_Casting without casting ring possible**

**\_Smooth casing surfaces and excellent fit due to the shock-heat method**

**\_Expansion is regulated by adjusting the liquid concentration**

**\_The large 4 kg package size is based on the capacity of the Smartbox Invest and therefore makes storage easier**

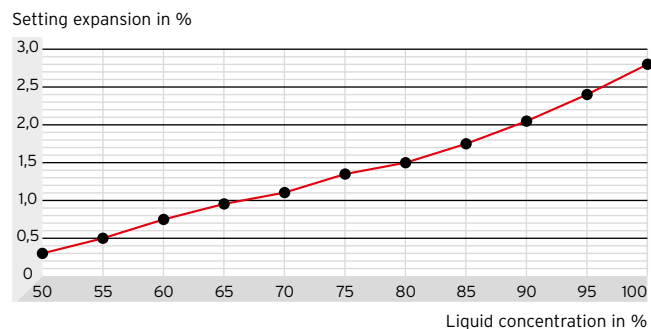
## A PRECISE AND CONTROLLABLE UNIVERSAL INVESTMENT WITH A WIDE SCOPE OF EXPANSION (1.2 TO 4.0 PERCENT BY VOLUME)

Unique: Giroinvest Super is an investment suitable for a wide range of applications. It can be used for crown and bridge works, high-gold-bearing, precious metal and non-precious metal alloys. Not only the work becomes noticeably easier and more efficient during the use of this investment; storage is considerably facilitated as well.

By changing the mixing ratio of water and liquid, the expansion range can be variably adjusted from 1.2 to 4.0 vol %. The precise adjustability in the lower and upper expansion area makes this investment perfectly suitable for press ceramics as well as non-precious metal alloys.



- \_ For precious alloys**
- \_ For non-precious alloys**
- \_ For press ceramic**
- \_ For inlays, crowns, and bridges**
- \_ For conventional heating and shock-heat method**
- \_ Also suitable for ringless systems**
- \_ Extremely wide scope of expansion**
- \_ Neat and smooth casting surfaces**
- \_ Flexible and priceworthy use**
- \_ Reproducible casting results**



## ALL ALLOYS AT ONE SIGHT





	CoCr-alloy		
	Bonding alloys		Model casting alloys
Product name	<b>Girobond NBS</b>	<b>Girobond CBS</b>	<b>Girocrom FH</b>
Description	The proven classical alloy: carbon-free CoCrMo bonding alloy	Modern NiCrMo bonding alloy for crown and bridge work	The ideal CoCr model casting alloy
Features	<ul style="list-style-type: none"> <li>_Excellent laser welding behavior, no risk of crack development since carbon-free</li> <li>_High homogeneity within the batches and good reproducibility thanks to the optimized production process</li> <li>_Suitable for casting with any standard method</li> <li>_Dense surface, good polishability, rich shine</li> </ul>	<ul style="list-style-type: none"> <li>_Low hardness (185 HV10)</li> <li>_High strength</li> <li>_Good melting and casting properties</li> <li>_Carbon-free, thus perfectly suitable for laser welding</li> </ul>	<ul style="list-style-type: none"> <li>_Extra-hard quality, fracture-resistant clasps</li> <li>_Suitable for modelling delicate frameworks</li> <li>_Easy to model and polish (fine-grained structure)</li> <li>_Carbon-free, thus perfectly suitable for laser welding</li> </ul>
Technical/physical data			
Proof stress Rp 0.2 % [MPa]	620	400	700
Tensile strength Rm [MPa]	850	650	880
Modulus of elasticity E [GPa]	210	180	220
Elongation at rupture A [%]	14	45	5
Vickers hardness HV10	330	185	350
Casting temperature [°C]	1510	1410	ca. 1450
Melting range Solidus [°C]	1350	1270	1346
Melting range Liquidus [°C]	1422	1356	1388
Density [g/cm³]	8.6	8.4	8.2
CTE 25-500 °C [x 10 <sup>-6</sup> K <sup>-1</sup> ]	14.1	13.8	
CTE 25-600 °C [x 10 <sup>-6</sup> K <sup>-1</sup> ]	14.3	14	
Chemical composition in % by mass			
	Co 62.4	Ni 63.5	Co 59
	Cr 25.5	Cr 24	Cr 32
	Mo 5.1	Mo 10	Mo 6
	W 5.2		Si 1.3
	Si 1.1	Si 1.5	
Other < 1 %	Nb, Fe, N	Nb, Mn	Mn, N, Nb, W
	CE-certified and free of nickel, beryllium, gallium and carbon		
Packs			
1000g Laboratory pack	781610	781690	721250

# STONES

## ALL STONES AT ONE SIGHT

### Technical/physical data:



Application	Dental arch, precision sectioned models	Dental arch, precision sectioned models	Situation model Opposing jaw	Situation model Opposing jaw	Plaster for full denture prosthetics	Articulation plaster
Product	<b>Alpenrock</b> High-strength dental stone	<b>Girocko</b> Synthetic Superstone	<b>Girostone</b> Synthetic Superstone	<b>Girodur</b> Synthetic Superstone	<b>Giroplast</b> Synthetic Superstone	<b>Artifix</b> Synthetic plaste
						
Class	4	4	4	4	3	3
Colour	gold, pastel, saffron, grey	gold, grey	rosé, pastel, yellow	white	blue	white
Mixing ratio (Powder : Water)	100 : 20	100 : 20	100 : 22	100 : 23	100 : 30	100 : 30
Sprinkling time (s)	15	10-20	15	15	15	15
Soaking time (s)	30	10-20	30	30	30	30
Mixing time in vacuum (s)	30	30	30	30	30	30
Working time (min)	7	5-6	6	5	4	3
Setting time (min)	12	12	10	10	10	4
Remove from the impression (min)	35	40	35	30-45	30-45	-
Linear setting expansion						
after 2 h	0.08	0.10	0.10	0.10	< 0.20	0.03
after 24 h			0.13			
Compression strength EN 26873 (MPa)	59	> 60	60	< 50	30	20
Hardness (MPa)	262	> 250	180	< 150	80	50
Bending tensile strength (MPa)	12	8	8	7		5
Content (kg)	20 (5x4)	20 (5x4)	20	20	20	20
Order no.	711110 711120 711130 711140	711160 711161 711170 711171	711021 711022 711023	711105	711050	711217



# ORDER INFORMATION





Artex Typ CN



Artex Typ CT



Artex Typ CPR



Artex Typ CR



Artex Typ BN

### Artex Articulators

217310	Artex Typ CN
217320	Artex Typ CT
218750	Artex Typ CPR
218760	Artex Typ CR
217360	Artex Typ BN

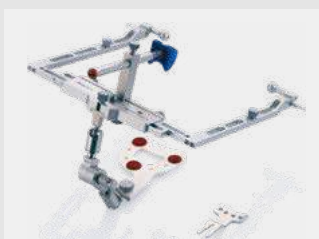
218730	Artex Arcon clip	
217330	Modell plate blue (pair)	
217331	Modell plate blue	50 pcs.
215250	Retention Disks	100 pcs.
299991	Individual engraving on Artex	
217333	Support pin C screwable	



### Dentist Kit

Select one of the four Artex articulators for the Splitex plate set, the Artex facebow and the Splitex transfer stand.

217310, 217320, 218750, 218760	Artex (CN, CT, CPR, CR)
216100C	Splitex Plate Set
218600	Artex Facebow
216240	Splitex Transfer Stand



### Dentist Mini Kit

Artex Facebow, Splitex Transfer Stand

218600	Artex Facebow
216240	Splitex Transfer Stand



### Technician Kit

Free choosable Artex articulator, Splitex Plate Set, Counter Plates, Retention Disk, Splitex Key

217310, 217320, 218750, 218760	Artex (CN, CT, CPR, CR)	
216100C	Splitex Plate Set	
216235	Counter Plates	100 pcs.
216150	Retention Disks	
216010C	Splitex key	

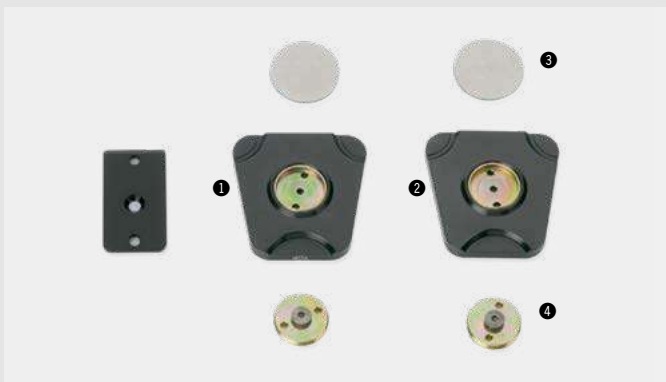






### Splitex Keys

216010C	Splitex key for Artex, 126 mm, C-Version
216010	Splitex key for Artex, 116 mm
216011	Splitex Spacer Plate +10 mm (required for new serial 126 mm)



### Splitex Disc Set

216100C	① - ⑥ Plate Set, C-Version	
216100	Plate Set (without picture)	
216110C	① Base Plate (TOP) without magnet	
216120C	② Adjust. Plate mandibular without magnet	
216150	③ 2 Retention Disks	100/pkg.
216111C	④ 2 mounting plates with screws	
216170	1 screw set max./mand.	2/pkg.
216140	Magnets	6 pcs.



### Splitex Counter Plate

The shock-resistant plastic material reliably adapts the Splitex plinth plate without distortion. Both plates are suitable for multiple use. The Premium quality (white) offers a higher accuracy ( $< 10 \mu\text{m}$ ).

- \_ Always available for quick, precise adaptation at the plinth plate
- \_ Prevents the risk of ill fit since no plaster expansion takes place
- \_ Tight, even model fixation, but nevertheless allowing safe removal and reposition

216230	Premium white	10/pkg.
216235	Classic black	100/pkg.
216150	Retention Disks, $\varnothing 36.5 \times 1.5$ for Splitex	100/pkg.



**Technical Data**

Dimension: 160 x 160 x 160 mm  
 Weight: 700g  
 Finish: Aluminium anodize

**Artex/Splitex Mounting Articulator**

The mounting articulator is not used as an articulator, but can be understood as a device which protects this precision instrument. Since models can be freely exchanged between similarly-calibrated articulators, they do not need to be transported in the articulator but can be transferred using mounting articulators which are similarly calibrated to the same model settings.

- \_ Safeguards articulators against water and plaster dirt
- \_ Compatible with all types of facebow and transfer systems
- \_ Centric and vertical height are fixed using rigid hinge axis/incisal pins
- \_ Easy removal of the models due to a detachable magnet in the upper frame

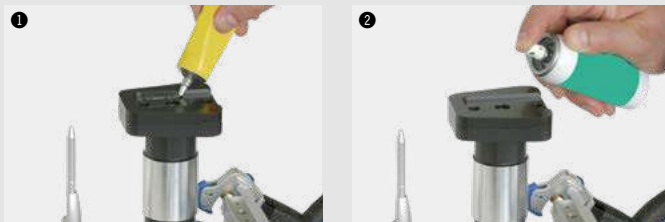
216020	Splitex Mounting Articulator
216020C	Splitex Mounting Articulator, 126mm Carbon-Version
216021	O-Ring for head support
216030C	Anterior guidance pin 126mm C-Version



**Splitex Master Platform Set (3 parts)**

For the production of Splitex Counter plates made from surplus stone. Magnetically connects to the Splitex plates.

216200	1 Set, 3-parts	
216150	2 Retention Disk	100/pkg.
216220	3 Rubber frames for socket	3/pkg.
216141	1 Magnet (built-in)	



**Splitex Mounting Glue**

For the controlled fixing of the mandibular adjustment plate in the articulator. Creates the smallest gap width possible, no shrinkage, safe adhesion.

- \_ Economical, easy to use, and removable for renewed adjustment

513110	1 50 ml Mounting Glue / Loctite
513120	2 150 ml Cleaner for Glued Areas



**Artex Separating Spray**

Silicone-based separating spray for Metal, Stone, keeps Articulator and model plates clean.

743040	Artex Separating Spray	400ml
--------	------------------------	-------



**Artex-Modell Plate**

Artex model plates enable easy and quick retaining due to integrated magnets in the upper and lower part of the Articulator. Suited for multiple use.

217330	Modell plate blue (pair)	
217331	Modell plate blue (pair)	50/pkg.
215250	Retention Disks	100/pkg.





### Dr. Behrend Type Clinometer

Adjustable Perspex® shield furnished with several vertical lines and two horizontal lines, for transferring physiognomic esthetic parameters. Once adjusted to the facebow, the horizontal lines can be aligned to match the eyes and the line of the anterior teeth, using the rotary control. The tooth position as determined is represented as an angle, and can be transferred to the articulator in the laboratory to recreate the position of the anterior teeth.

- \_ Determines asymmetries and compensates them during set-up
- \_ Supplies the technician with important esthetic information
- \_ Helps to prevent remakes, improves function and esthetics

219960C ❶ "Operator" Clinometer

219950 ❷ "Laboratory" Clinometer

218110C Pin holder

217131 Cranked pin for Artex



### Centrofix according to Dr. Lüth

Intra-oral centric registration with vertically adjustable tracing ball: Corrects the vertical distance during registration and locks the determined centric position without plaster by means of an adjustable clamp. German Patent 4014975, US Patent 5.188.529.

- \_ Time-tested support pin methodology - safe functional results
- \_ All relevant information in one session: moulding, jaw relation/ vertical distance, axial relation, aesthetics template
- \_ Stable and reliable registrations and information for your lab

242700 ❶ - ❾

242710 ❶ Writing board broad

242720 ❷ Writing board narrow

242740 ❸ Pin carrier

242750 ❹ Tracing ball long

242751 ❺ Tracing ball short

242760 ❻ Adjustable clamp

242780 ❼ Cross

242790 ❽ Combination wrench

242810 ❾ Copper writing platelets

242820 ❿ Spirit level

242830 ⓫ Distance piece (plastic hose)







### Artex Set-Up Index Key for the maxilla

This facilitates average-value alignment of the edentulous maxilla at the remaining anatomical fold in the throat. The vertical adjustment of the support fork and the reciprocal bar facilitate improved individual positioning of the model.

- \_ Semi-individual positioning in the articulator without facebow
- \_ Basic version with screw thread, or conversion plate for the Splitex System

216255C incl. thread (Thread version) for Carbon-Version



### Artex Set-Up Index Key for the mandible

Fundamental scale for average-value alignment of the edentulous mandible model at the symphysis and retromolar pads.

217700 ① with thread

217700C ② with thread, 126 mm for Carbon-Version

216250C Setup index key with Splitex, 126 mm for Carbon-Version



### Artex Set-Up Templates

Guide for set-up of full dentures according to the Spee/Wilson occlusion curve. The horizontally and vertically adjustable device with occlusal plane indicator and adjustable inclination supports the different templates.

- \_ Flat template for average-value mounting of dentulous models
- \_ 4 radius for adjustment to different tooth/set-up concepts
- \_ Screw or magnet version, to be ordered separately or as a set

217730 Setup template, "thread"

217730C ① Template holder, thread for Carbon-Version

217740 Template flat

217741 Template R 100

217742 Template R 125

217744 Template R 140

217746 Template R 160

216260 Setup template with Splitex profile

216260C ② Template holder with Splitex, 126 mm for Carbon-Version

Ord.-No.	Spherical cap radius	Molar cusps	Tooth type	Tooth manufacturer
217746	160 mm	30-35°		
217744	140 mm	25-28°	Poly-Star Lux HK, Creapearl 2, Creopal, Biodent, Articron	Creation, Merz Dental, De Trey, Lindauer Zähne, Ivoclar, Weithaas, VITA
217742	125 mm	15-16°	Orthognat n, t, k, Odilux	
217741	100 mm	0°	Orthocal	Lindauer Zähne



### Artex Anterior Guidance

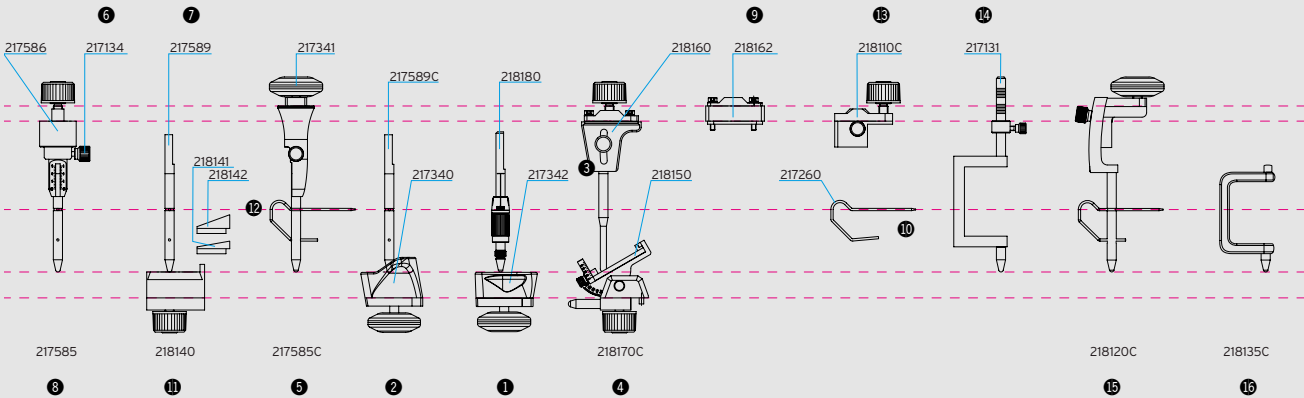
Special accessory which fits in all Artex Articulators, to mechanically individualize/program the anterior area.

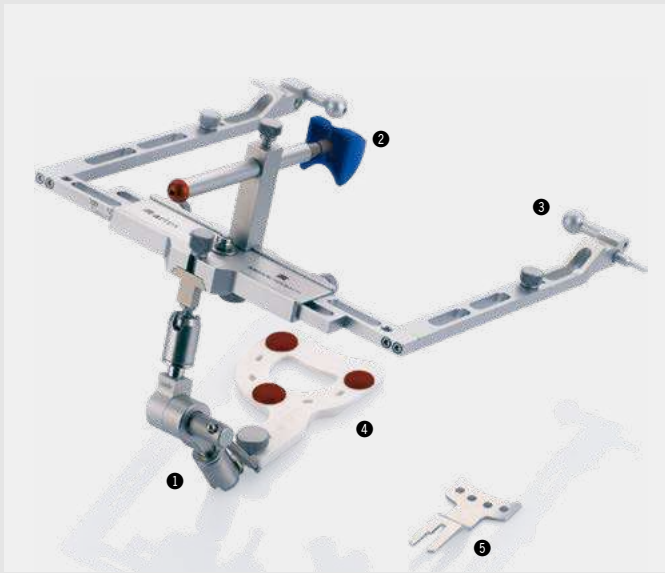
\_ **Micrometer pin** to exactly raise/lower the anterior guidance in steps of 1/10 mm

\_ **Individual anterior guidance** using radially guided pin with infinitely variable table plate (protrusion 0-40°, laterotrusion 0-70°, turning to right and left)

\_ **Cranked pin** provides for unhindered access during anterior set-up and maintains clear sightlines

217586	6	Support pin
217589	7	Anterior guidance pin
217589C		Anterior guidance pin, C-Version
217585	8	Anterior guidance pin complete
217585C	5	Anterior guidance pin for Carbon-Version
218170C	4	Individ. anterior guidance, 0-70° protrusion, 0-40° laterotrusion pin, table, adjusting bolt for Carbon-Version
218162	9	Heightener 10 mm for radial pin
218120C	15	Radial pin, C-Version
218135C	16	Radial pin insert, angled
217260	10	Artex Incisal needle
218140	11	Artex Incisal plate incl. 218141, 218142
218141	12	Table adapter 10°
218142	12	Table adapter 20°
217340	2	Plate anatomical for Carbon-Version (40° protrusiv; 30-40° laterotrusiv)
217342	1	Standard incisal plate 0° for Carbon-Version
218110C	15	Pin holder
217131	14	Micrometer pin
218180	3	Micrometer pin Artex



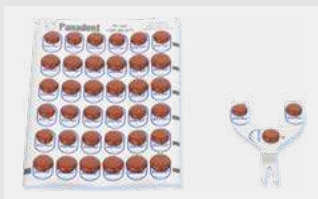


### Artex Facebow C€

218600	1 - 5	
218620	1 Joint Support	
218680	2 Leipzig Nasion	
218607	3 Porus Buttons "Standard", pair	
217650	4 Artex Quickbite	10/pkg.
217928	5 Tray Handle	

### Optional accessory

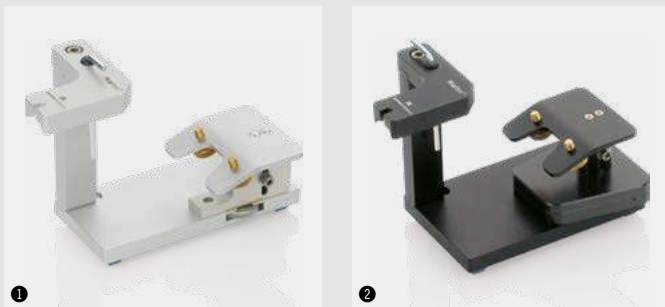
218609	Porus Buttons long, pair	
218610	Axis-plane Pointer w. screw	
218635	Carrier for Facebow Cadiax compact, pair	
218690	Nasion vertically adjustable	
217650	4 Artex Quickbite	10/pkg.
217928	5 Tray Handle	5/pkg.
217611	6 Bite fork partial two-pack	2/pkg.
217695	Nasion adapter, blue (for cushioned Leipzig nasion)	



### Bite Tabs C€

Thermoplastic pellets on self-adhesive foil to cover the metal bite fork for facebow registration.

642150	Bite Tabs, 180 Tabs
--------	---------------------



### Artex Transfer Stand

For safe transport of the facebow registration to the lab. The universal joint with bite fork is removed from the facebow and inserted into the reception of the transfer stand. There, the registration is fixed in plaster. The detachable transfer table safely and unshakeably takes this important patient information to the lab.

218670C	1 Transfer Stand with table for carbon version
216240	2 Splitex Transfer Stand complete



### Artex Transfer Table

The detachable part of the transfer stand, either with screw for model plates or furnished with Splitex magnetic plate. Several transfer tables are necessary in case of short registration intervals (whereas only one facebow and one transfer stand are required).

- \_Saves money since only one facebow is sufficient
- \_Saves plaster work at the practice but ensures safe transport to the lab

217671C	1 Transfer Table for carbon version
216270	2 Transfer Table with Splitex Profile



### Artex Transfer Jig

Another direct alternative to the transfer stand and to the direct facebow transfer. The universal joint with bite fork is attached to the jig holding the registration in axis relation while fixed at the bottom part of the artex articulator.

- \_Direct and safe model transfer without additional steps
- \_Reasonable solution at the practice - saves one "plaster cycle"

218631 Artex Transfer Jig



### Artex Bite Fork Support/Telescopic Legs

Infinitely variable bite fork support (see picture above). The magnetic plinth is compatible with all conventional articulators.

- \_Fits all types of articulators, either fixed with screw or magnetically
- \_Height adjustment by means of a thread, fine adjustment by telescopes

The telescopic legs are screwed in to support the facebow anteriorly during the direct transfer of the facebow registration into the articulator. A level helps to adjust the facebow horizontally to the table plane.

217685 Bite Fork Support

217624 ① 2 Telescopic Legs ② + Level



### Artex case

217991 Artex case with foam rubber padding (without content)



### Artex iTero

The Artex iTero model adapter set enables direct transfer of a set of models created from iTero scan data to the Artex Carbon articulator.

216310 Artex iTero model adapter (set)



### Zebris for Ceramill

- 221500 Zebris for Ceramill
- 221501 Zebris transfer stand
- 221502 Para-occlusal attachment
- 221503 Zebris bitefork
- 221504 Zebris bitefork adapter
- 999560 Protection Plan Zebris for Ceramill 1J
- 179703 Ceramill M-Pass
- 221520 Zebris for Ceramill database configuration
- 221521 Zebris for Ceramill CSV export
- 221522 Zebris for Ceramill license upgrade



**Technical Data**  
 Dimension: 67 x 35 x 46 mm  
 Weight: 157 g



### Artex Noplast

Artex Type NK for easy mechanical model fixation without plaster. The freely movable model plate safely holds the model in place according to the conventional method with a model table. With help of female thread screws, bars/joint discs rigidly block the relation, strain-free and distortion-free.

- \_ Time-saving interim solution for model analysis/discussion
- \_ For the making of individual trays/templates and for orthodontic apparatuses
- \_ To check the function of Co-Cr cases on investment models
- \_ Spares valuable working articulators if used for interim steps (but it may not, and cannot, replace the model plaster for definite restorations!)

217480C Noplast for Artex Carbon



### Spray marker

Green occlusion spray with food-grade ingredients. Develops only little spray-dust, fully water-soluble.

- \_ Homogenous spray pattern
- \_ Allows for precise dosing
- \_ High selectivity

541390 Spray marker green

75 ml



**Technical Data**  
 Dimension: 120 x 90 x 110 mm  
 Weight: 480g  
 Finish: Alluminium anodized

### Artigator

For the expert and artistic processing of the "triple-tray technique" by the dental technician. This way allows to directly transfer the impression into the position-safe auxiliary Artigator articulator, regardless of the cranium/axis relation.

- \_ Sturdy unit with safe centric and Artex "click" lock
- \_ Performs average-value movements as well as immediate sideshift (ISS)
- \_ Full frontal access for proper adjustability thanks to the crank pin
- \_ Direct segment model in magnetic pin plate
- \_ Replaces four work steps with one, saves half the plaster consumption
- \_ Quick amortization due to enormous time and material saving

218950 ❶ Artigator incl. 2 Base Plates blue

### Accessory

218941 ❷ Artigator - Base plate blue 50 pcs.

218933 ❸ Artigator base collar

218931 ❹ Artigator pin plates U (upper)

218932 ❺ Artigator pin plates L (lower)







**Technical Data**

Dimension: 250 x 183 x 370 mm  
 Weight: 9.6 kg  
 Mains supply: 230(100/115)V/0.32W  
 Motor speed: 2,800 min<sup>-1</sup>  
 Laser class: 3A < 5mW

**Giroform pin drill**

176701 Giroform pin drill  
**Delivery volume:** Tungsten carbide burr 176710, Universal plate holder 176713, impression carrier 176733, Tubular socket wrench 176702, holding pin 176703, screw driver for adjustment 176004

176710	Giroform-Tungsten Carbide Burr
176713	Universal plate holder
176733	Giroform-Impression carrier



**Giroform Starter Kit**

576702	Giroform Starter Kit	
176710	1 Tungsten carbide burr	
176733	2 Impression Carrier 2x	
321070	3 NT-Cutter	
359010	4 Hammer with Aluminium handle	
576450	5 Giroform-Pins	1,000/pkg.
576461	6 Giroform putty Putty	1kg
576710	7 Giroform base plate Premium +	100/pkg.
5767501	8 Giroform secondary plate XL with magnet	5/pkg.
576765	9 Adjustment plate clear	2/pkg.
576950	10 Giroform sleeve "kombi"	
576805	11 Giroform space retainer foil	50/pkg.
815300	12 Arbor band mandrel	2.35mm
815330	13 Arbor band, grain 120	50/pkg.
990252	14 Timer	



**Giroform Base Plates, 100/pkg.**

576710	1 Premium+ L (incl. metal disc)	
576745	Premium+ XL (incl. metal disc)	
576747	Premium+ L blue (incl. metal disc)	
576720	2 Classic L	
576740	Classic XL	
576726	3 Classic L blue	
576765	4 Adjustment plate L	2/pkg.
576766	Adjustment plate XL	2/pkg.



**Giroform Secondary Plate**

576750	L with magnet	50/pkg.
576751	XL with magnet	50/pkg.



**Giroform Pins**

576450	Giroform Pins	1,000/pkg.
576451	Giroform Pins	10,000/pkg.



#### Giroform Quadrant Base Plate

Shape retaining acrylic base plate for Quadrant impressions.

576770	Giroform Quadrant base plate	100 pcs.
576771	Giroform adjustment plate for Quadrant	2 pcs.



#### Giroform Adapter for Vertex®

Adapter for usage in the Giroform base mounting plates in Vertex® single-use articulators.

576790	Giroform adapter for Vertex® articulators	100 pcs.
--------	---	----------

Vertex® is a registered trademark of Dentsply Ceramco



#### Giroform pin drill

Conical hard metal drill, cutting geometry perfectly matches the Giroform base plate material.

\_Short chips smooth cladding

176710	Giroform pin drill
--------	--------------------



#### Giroform Putty

Silicone putty for placing and blocking the mould on the mould carrier, saves plaster as well as subsequent trimming and grinding, pleasant lemon fragrance.

\_Great time-savings as a result of quick blocking

\_Multifunctional

576461	Tub	1 kg
576465	Bucket	5 kg



#### Giroform Magnets and Sockets

Magnet Ø 31.9 x 6mm, including socket and retention disc.

Allowing removal of the model and reposition in the articulator.

Independent system use.

512511	Magnetic plates Ø 20 x 6mm	100/pkg.
512512	Sockets Ø 25 x 7.5mm	100/pkg.



### Giroform magnetic discs

- ❶ Edged, Ø 31.9 x 1.5 mm for universal usage,
- ❷ Stainless steel flat, edged Ø 36.5 x 1.5 mm for Splitex counter plates
- ❸ Ø 25 x 1.0 centric bore and M3-countersunk screw for Giroform Classic base plates

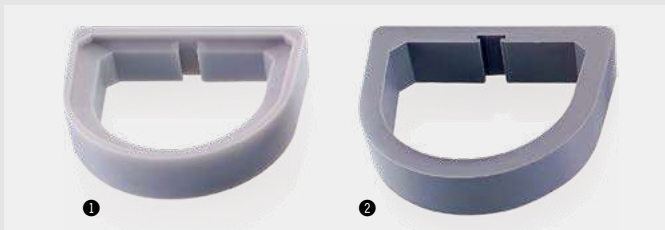
215660	❶ Retention discs cranked Ø 31.9 x 1.5	100/pkg.
216150	❷ Retention discs stainless steel Ø 36.5 x 1.5 for Splitex	100/pkg.
576716	❸ M3-Retention discs for Giroform Classic Ø 25 x 1.0 incl. screws	100/pkg.



### Giroform Space retainer foil

Provides enough space for pins and magnet. Stabilizes the base plate in the area of the splitcast profile.

576805	Giroform Space retainer foil	50/pkg.
--------	------------------------------	---------



### Giroform Base Collar

Used Giroform Base Plates which have already been drilled can be used to make master casts.

576950	❶ Base Collar L-Kombi
576961	❷ Base Collar XL



### Giroform Duplication Flask

For the duplication of refractory dies varying in size from single segments up to the complete dental arch. Suitable for Giroform base plate L.

576670	Giroform Duplication Flask
--------	----------------------------



### Giroform Refractory Pin

Removable conical ceramic pins, inserted into the base plate, are used in refractory duplication.

576480	Giroform Refractory Pin	25/pkg.
--------	-------------------------	---------



### Giroform Labels

909032	Giroform Labels	1,000/pkg.
--------	-----------------	------------



**Technical Data**  
 Dimension: 335 x 240 x 590 mm  
 Weight: 16.5kg  
 Mains supply:  
 100/115/230 V, 50/60Hz  
 Machine rating: 95W  
 Capacity powder: approx. 8kg  
 Time to allot 20 ml : 100g approx. 30s

### Smartbox X2

116170	Smartbox X2, 230 V (115 V = 116170V115)	
<b>Delivery volume:</b> Basic unit with integrated 8kg plaster container, 3l water container, power cable		
116101	Protection cover	
117201	Beaker distance piece	2 pcs.



**Technical Data**  
 Dimension: 250 x 160 x 350 mm  
 (without stand)  
 Weight machine: 8.5kg  
 Weight stand: 7.9kg  
 Mains supply: 100/115/230V, 50/60Hz  
 Machine rating: 210W  
 Delivery rate: 15.8l/min  
 Vacuum power: -800mbar

### Smartmix X2

115700	Smartmix X2 wall mounting 230 V	
<b>Delivery volume:</b> basic unit with beaker 500ml, for wall-mounting, drilling template, 4 screws with dowels, 1 replacement filter		
115730	Stand for Smartmix X2	
115620	Beaker with mixing blade	100ml
115630	Beaker with mixing blade	250ml
115640	Beaker with mixing blade	500ml
115650	Beaker with mixing blade	750ml
115660	Beaker with mixing blade	1000ml
115621	Beaker	100ml
115631	Beaker	250ml
115641	Beaker	500ml
115651	Beaker	750ml
115661	Beaker	1000ml
115701	Spare filter for Smartmix X2	5/pkg.



**Technical Data**  
 Dimension: 275 x 265 x 455 mm  
 Weight: 12.5 kg  
 Mains supply: 230V/50 Hz /115V/60 Hz  
 Machine rating: 1600W / 1000W  
 E-fuse: T10A  
 Boiler volume: 3.7l  
 Vapor pressure: 4.0 bar  
 Warm-up time: approx. 25min

### Steamer X3

116910	Steamer X3 230 V	
<b>Delivery volume:</b> Mounting template, Instruction for use, Test strips for measuring water hardness, 1 x 250 ml bottle of Kalk-X descaling liquid Power cord, Set of safety cap gaskets (white teflon gasket and silicone gasket)		
<b>Accessory</b>		
116811	Kalk-X Liquid descaling agent	4 x 250ml
516330	Clean Steamer	
516340	StymoNet	
116911	Sealing lid	
116912	Seal for lid	



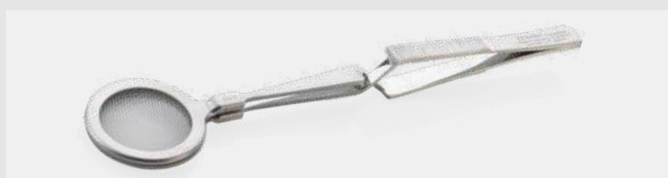
### CleanSteamer

Hollow cylinder with hinged lid and sieve portion to collect impure small parts (teeth, crowns, etc.). By opening the hinged lid, saturated steam is blown into the object carrier. Addition of dishwashing liquids possible.

516330	CleanSteamer	
516338	Steamer X3-adapter	

### Spare parts

516332	Lid handle insulation	
516333	Steam inlet insulation	
516334	Hinged lid insulation	



### StymoNet

Self-locking tweezers with fine-mesh stainless plastic net to fix delicate objects such as ceramic teeth; inlays etc. during cleaning with saturated steam.

516340	StymoNet	
--------	----------	--





### Noflame Plus

116250 Noflame Plus

**Delivery volume:** basic unit with power cable, 2 protective covers

116210 Protective caps

10/pkg.

#### Technical Data

Dimension: 195 x 85 x 83 mm

Weight: 600g

Mains supply: 230V/50Hz/130W



### Smartwax Duo

116270 Smartwax Duo, basic unit

**Delivery volume:** control unit with mains adaptor, handpiece with cord (116280), probe small incl. handle (116281), cotton role holder

116280 Handpiece with cord

#### Technical Data

Dimension: 130 x 150 x 50 mm

Cable length of handpiece: 1.8 m

Electrical specifications of mains adaptor: 110 - 230V 50/60 Hz

Output: 6 V, Power: 12 W

Temperature range: 50 - 220°C / 122 - 428°F - switchable

#### Accessories:

116281 ① Probe small incl. handle

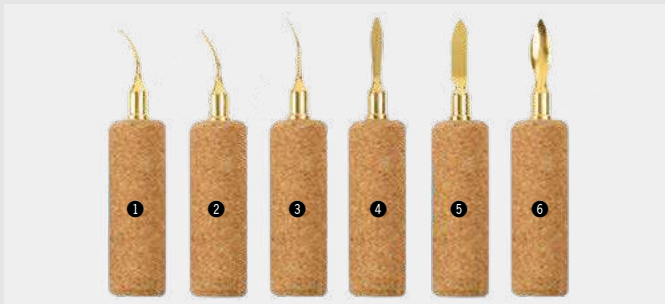
116282 ② Probe large incl. handle

116283 ③ Needle incl. handle

116284 ④ Beaver tail incl. handle

116285 ⑤ Knife incl. handle

116286 ⑥ Spoon incl. handle



### Waxjet (pat. pend. ZTM Jonas)

Intelligent solution for application of wax. The continuous wax supply via the unique feeding mechanism of the Waxjet allows the dental technician to quickly apply a big amount of wax. The fluidized wax gets through the concave probe to the tip and the quantity of the wax can be determined individually by the technician - depending on, how quickly the wax wire is put forward with the help of the driving pulley.

\_ Twice the speed of wax up work = 50% saving of time

\_ No annoying wax taking up

\_ For quick superficial fusing and application of wax

116287 Waxjet incl. handle

641060 Waxjet wire pink / 6.0 / 280 g



The Waxjet in action - e.g. during filling of the gingivobuccal fold. Rapidly ready for use - one touch is enough





**Technical Data**

Dimension: 340 x 250 x 450 mm  
 Weight: 15 kg  
 Mains supply: 100/115/230 V, 50/60Hz  
 Motor speed: 1,000-40,000 min<sup>-1</sup>  
 Torque: max. 7.5Ncm

**Milling Device AF350**

177605 Milling Device AF350

**Delivery volume:** basic unit with vertical lift, milling arm with W&H motor spindle, model table MT3, twin LED lamp, cover

**Optional accessory**

177998 Blockout-Upgrade-Kit AF350, adjustable, 3 parts (for current version - see image)

**Delivery volume:** Blockout-Set 177990, Marking stick 17800, Adapter sleeve AF350 adjustable 177994

177800 Marker

177661 W&H Collet 3 mm

177661i W&H Collet 2.35 mm



**Blockout**

Heatable blockout blades 0° to 6°, with parallelly guided plug-in contact for handpiece connection. To be inserted into the chuck of the marker (Ø 3 mm). Connection to any controllable voltage source providing 24 V.

177990 Blockout and 5 inserts 0°-6°

**Optional accessory**

177991 Adapter cord AP100/Diacut/Blockout

177806 Adapter for marker AF350

177980 Blockout insert 0° Ø 1.3 mm

177981 Blockout insert 0° Ø 2 mm

177982 Blockout insert 2° conic

177983 Blockout insert 4° conic

177960 Blockout-set AP100 including adapter cord AP100



**Model Table MT2/MT3/Splitex**

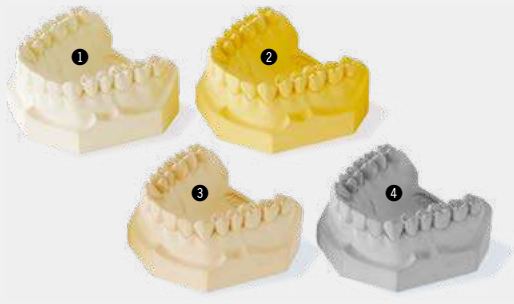
**MT2:** Inclination table, from 0° to 90°, both final positions are under forced guidance, fixed with manual clamp lever. Plinth plate may be magnetized.

**MT3:** Inclination 0° to 41°, manual / electromagnetic fixation by degrees, 0/2/4/6° also mechanical (sleeve / ring); electromagnetic positioning.

177350 ② MT3 / 0°-14°

177360 ① MT2 / 0°-90°





### Alpenrock

Classical super hard Class 4 gypsum for the production of tooth arches, single stumps and control models. The expansion is ideally matched to Giroform model creation. The expansion is ideally matched to Giroform model fabrication.

711110	③ gold	20kg carton (5 x 4kg bag)
711120	① pastel	20kg carton (5 x 4kg bag)
711130	② saffron	20kg carton (5 x 4kg bag)
711140	④ grey	20kg carton (5 x 4kg bag)



### Girocko

Girocko is a synthetic, Class 4 high-strength dental stone - also ideal for fabricating models using Giroform.

711160	gold	20kg carton (5 x 4kg bag)
711170	grey	20kg carton (5 x 4kg bag)



### Girostone

Synthetic class 4 super-hard plaster, universal for all prosthetic applications, material of choice for situation and master models - also for fully prosthetic working models due to its low brittleness.

\_ Cost-efficient high-quality super-hard plaster in 3 colours

711021	rosé	20kg carton
711022	pastell	20kg carton
711023	yellow	20kg carton



### Girodur

Synthetic class 4 super-hard plaster for stump and master models.

\_ Low-price alternative to all precision model types

711105	white	20kg carton
--------	-------	-------------



### Giroplast

High-strength synthetic plaster for full prostheses, especially for plastic extrusion techniques (e.g. polyan). The great working pressure during insertion of the plastic material into the container requires high pressure-resistance to counteract deformation.

\_ High strength for plastic extrusion

\_ Expansion values adjusted to full prostheses

711050	blue	20kg carton
--------	------	-------------



### Artifix

White synthetic articulation plaster with minimum expansion, suitable for manual and machine mixing. Indication: working models articulating, orthodontic models rebasing, fixation of milling bases, bite registration and indexes.

711217	Artifix	20kg carton
--------	---------	-------------



### Abrasive belt / mandral

For pre-trimming of model stumps and trimming of tooth arches.

\_ Quick, efficient and vibration-free removal of material

815300	Mandral cylindrical	
815310	Grain 80, ISO 070, length 11mm	50/pkg.
815330	Grain 120, ISO 070, length 11mm	50/pkg.
815340	Grain 240, ISO 070, length 11mm	50/pkg.



### Model boxes

Deep-drawn transparent box for transporting dental models, self-locking, with 2 foam rubber cushions.

\_ Various sizes and heights, also for plastic bases

\_ Cost-efficient bulk packaging of 30 pieces each (10x3 units)

511430	small	78 x 70 x 45 mm
511450	large	90 x 80 x 60 mm
511460	x-high	90 x 80 x 80 mm



### Girosolve Pro

Plaster dissolution with high dissolving speed and capacity, for all kinds of plasters and plaster-bonded investments. Dissolves and removes plaster remainders from dentures, impression trays, mixing bowls, and cast objects.

\_ Higher effectiveness and economy - increased by 20%, control through bubble activity

\_ No acids, neutral pH-value, suitable for all materials

\_ Efficiency multiplies if used in an ultrasonic bath

\_ Disposal of used solution through the sewage system

714050	Girosolve Pro	2 l
--------	---------------	-----



Ceramill Sep - Thinner and more reliable coating, lemon-scented

### Ceramill Sep

Isolates the modelling resins Ceramill Gel/Pontic from gypsum and stump varnish (especially Giroform Die Link).

760561	Ceramill Sep
--------	--------------



①



②

### Ceramill Gel/Pontic

Light-hardening modelling synthetics for crowns and intermediate bridge elements.

760514	① Ceramill Gel - light-hardening synthetic modelling material for crowns, green, 3g	4/pkg.
760522	② Ceramill Pontic - light-hardening synthetic modelling material for intermediate bridge elements, blue, 3g	2/pkg.

**Giroinvest Speed**

Phosphate-bonded precision investment for model-casting.

724070 Giroinvest Speed Powder 5 x 4kg bag = 20 kg

724072 Giroinvest Speed Powder 100 x 200g bag = 20 kg

724081 Giroinvest Liquid 1 l

**Giroinvest Super**

Phosphate-bonded precision investment for crown, bridge and inlay work and pressable porcelain.

781670 Giroinvest Super Powder 40 x 150g-bag = 6 kg

781680 Giroinvest Super Powder 50 x 100g-bag = 5 kg

781685 Giroinvest Super, 2 x 4 kg

724090 Giroinvest Super Liquid 1l

**Girobond NBS**

Packaging:

781610 Girobond NBS 1,000 g

**Girobond CBS**

781690 Girobond CBS 1,000 g

**Girosolder**

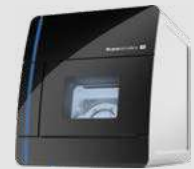
Dental solder for cobalt-based alloys

781630 Girosolder, 3.6 g Lot in bars

**Girocrom FH**

721250 Girocrom FH 1,000 g

## Technical Data:



Ceramill	Map 200+	Map 600+	Mikro 4X
<b>Art.Nr.</b>	179130NC	179560N	179300N
<b>Dimensions D/W/H (mm)</b>	390 x 360 x 310	415 x 424 x 469	465 x 515 x 585
<b>Weight (kg)</b>	11	25	50
<b>Power supply (V/A)</b>	100-240 / 50-60 Hz	100-240 / 50-60 Hz	100-230 V / 50-60 Hz
<b>E-fuse</b>	T2 x 1 A	T2 x 1,6 A	T3,15A / T6,3A
<b>Output (W)</b>	80	60	250
<b>Compressed air connection</b>			6 bar 50 L/min
<b>Engine speed (U/min<sup>-1</sup>)</b>			60.000
<b>Torque (Ncm)</b>			4
<b>Collet chuck (Ø mm)</b>			3
<b>Sound level (max. dbA)</b>			60
<b>Accuracy (µm)</b>	< 6	< 4	< 10
<b>Axes</b>	2	3	4
<b>Recommended installation site</b>	Table, no direct sunlight	Table, no direct sunlight	
<b>Recommended temperature (°C)</b>	18-30°C	15-30°C	18-30°C

## Ceramill Mindserve

Ceramill Mindserve is a data server for networking several Ceramill CAD/CAM workstations. The Ceramill Mindserve is available as a 2 or 4 terabyte version and stores 15,000 or 30,000 data records - an external hard drive automatically ensures reliable data back-up in a 24 hour tact. The compact server links up to 10 Ceramill workstations using a conventional network connection and thus enables easy, central management of customer data as well as streamlining workflows. Different patient cases can be simultaneously processed via several workstations, which achieves optimum utilisation of the machines and efficient handling of orders.



- \_ Easy, efficient management of customer data, complaints etc.
- \_ Easy installation using Plug&Play connection\*
- \_ Automatic back-up on additional external hard drive
- \_ 2TB / 4TB hard drive enables archiving and securing of up to 15,000 / 30,000 data records
- \_ Certified hard drives mirrored in real time
- \_ Networking of up to 10 Ceramill workstations for optimum utilisation of the machines

\* assuming the customer's IT administrator provides the system requirements





**Mikro 5X**

**Mikro IC**

**Motion 2 5X**

**Matik**

	179330N	179600N	179250N	181200PRO
	465 x 515 x 585	465 x 580 x 585	595 x 530 x 780	780 x 1265 x 2000
	50	70	78	520
	100-230V / 50-60Hz	100-230V / 50-60Hz	100-230V / 50-60Hz	100-240V
	T3,15A / T6,3A	T3,15A / T6,3A	T3,15A / T6,3A	T3,15A / T6,3A
	250	750	750	750
	6 bar 50 L/min	6 bar 50 L/min	6 bar 50 L/min	7 bar 200 L/min, available at short notice 400 L/min
	60.000	100.000	100.000	100.000
	4	9,2	9,2	11,2
	3	3	3	3
	60	60	60	60
	<10	<10	<10	<10
	5	4	5	5+4
	18-30°C	18-30°C	18-30°C	18-30°C

**System requirements:**

- \_ Internet connection (50 Mbit/s) to guarantee data transmission to the M-Center and remote maintenance of the system.
- \_ Flat rate is recommended
- \_ A network cable for connecting the router / modem and PC.
- \_ An Internet connection must be available on the day of installation. If the customer does not know how to create an internet connection, it must be ensured that an Internet specialist is on site on the day of installation. AG will not connect the system to an already existing network at the customer.
- \_ The customer must guarantee maintenance and any problem solving relating to the network / Internet connection.



**PC technical data**

(may change depending on the development status)

	<b>PC Standard</b>	<b>PC Premium</b>
<b>Art.Nr. Set</b>	179070	179071
<b>Processor speed/model</b>	Intel i7 8700	Intel i9 10900X
<b>Memory</b>	16 GB RAM	32 GB RAM
<b>Hard drive</b>	256 GB SSD + 1 TB SATA	1 TB SSD
<b>Graphics</b>	5 GB	8 GB
<b>Operating system</b>	Windows 10	Windows 10
<b>Monitor</b>	24 inch	27 inch
<b>Recommended installation site</b>	away from the floor, not on the wall	



**Technical Data**  
 Dimensions (DxWxH): 468 x 461 x 480 mm  
 Weight: 30 kg  
 Electrical connections:  
 V/Hz 220-240/50-60  
 Power: 3.5 kW  
 Fuse (fast): 15 A  
 Degree protection - IP20  
 Thermal protection class according to DIN EN 60519-2: Class 0  
 Ambient conditions:  
 Temperature: +5 - +40°C  
 Humidity: 80%

### Ceramil Therm 3

Sintering furnace

178380 Ceramil Therm 3

**Delivery volume:** Ceramil Therm 3 sintering furnace, sintering bowl, Therm 3 tongs, Sintering pearls 200g, Ø 1mm

#### Accessories Therm 3

178311 Sintering pearls 200g, Ø 1mm, for ZI and Zolid

178381 ① Tongs for Therm 3 sintering bowl

178382 ② Therm 3 stackable sintering bowl

178383 Therm 3 Zolid stackable sintering bowl

#### Accessories Therm

178360 Stackable sintering bowl 1 pc.

178370 Zolid Stackable sintering bowl 1 pc.

178360 and 178370: stackable only in Ceramil Therm (178350)

178361 Tongs for Therm sintering bowl



**Technical Data**  
 Dimensions (DxWxH) incl. service unit:  
 468 x 461 x 480 mm  
 Weight: 30 kg  
 Electrical connections:  
 V/Hz 220-240/50-60  
 Power: 3.5 kW  
 Fuse (fast): 15 A  
 Degree protection - IP20  
 Thermal protection class according to DIN EN 60519-2: Class 0  
 Ambient conditions:  
 Temperature: +5 - +40°C  
 Humidity: 80%

### Ceramil Argotherm 2

Sintering furnace for Ceramil Sintron

178740 Ceramil Argotherm 2 (incl. Ceramil Argovent 2)

**Delivery volume:** Sinter furnace Ceramil Argotherm 2, sinter chamber Ceramil Argovent 2

178745 Ceramil Argovent 2 (incl. in Ceramil Argotherm 2 delivery)

**Delivery volume:** sinter base, sintering tray, sinter hood, shielding gas retort, sinter beads, Argovent 2 tongs

178748 Ceramil Argovent 2 sintering tray

178749 Ceramil Argovent 2 sinter hood

178754 Ceramil Argovent 2 tongs

178755 Sinter beads Argovent 2 150g

178756 Floatsinterdisk 2



**Technical Data**  
 Dimensions (DxWxH):  
 390 x 300 x 484mm  
 Weight: 50 kg  
 Power rating: 230V / 50-60Hz  
 Max. output: 3,5 kW  
 Max. temperature: 1.600°C

### Ceramil Therm DRS

181900 Ceramil Therm DRS

#### Accessories/replacement parts

181901 Accessory case

178755 Sintering pearls

181902 Forceps

181903 Sintering bowl

181904 Sintering base

181905 Firing tray

761936 Ceramic pins 10 pieces

181906 Cooling plate

181907 Heating element

181908 Thermoelement



**Technical Data**

Dimensions: 406 x 280 x 423  
 Weight: 16 kg, Performance: 1000W  
 Electrical connection values (V/A/Hz):  
 230/3.6/50-60, 115/7.0/50  
 Suction Power: 56.6 L/sec., Volume: max.  
 52 dbA, Filter bag size: 10 Liter  
 Hose Ø: 38mm, Hose length: 1.8 m  
 Adapter diameter: conical, 37-38mm  
 HEPA micro filter (97.97%),  
 Filter class H12, dust class M

**Ceramil Airstream**

\_ Extractor for Ceramil milling units  
 \_ May also be used for other devices with attached adapter

178600	Ceramil Airstream 230V (100-120V = 178600 V100-V120)	
178610	Airstream Suction Bag	5 pcs.
178611	Airstream Microfilter	1 pc.



**Technical Data**

Dimensions: 656 x 518 x 651mm  
 Weight: 36 kg  
 Electrical connection values:  
 100-230V/T 1.0A / 50-60Hz  
 Power: 150W

**Ceramil Coolstream**

Integrated coolant preparation for Ceramil Motion 2 in the trolley.

178641	Coolstream Tank	
178642	Coolstream Cart	

**Delivery volume:** coolant lubricant container; connector for supply and outlet of the coolant lubricant; product analysis



**Cooling Liquid**

178650-NTR	Cooling Liquid	
------------	----------------	--



**Ceramil Scanmarker**

Ceramil Scanmarker is a powder spray that is applied to the surface of models or teeth to improve their visual characteristics when using a camera or scanner in the CAD/CAM technique. Suitable for extra-oral use.

1760562	Ceramil Scanmarker 50ml	
---------	-------------------------	--



**BD Key Scan Holder**

Impression holder for scanning impressions in the Baltic Denture System. Suitable for all Map 200/Map 400/Map 600 generations. (Only in conjunction with 179138/179139 Impression Holder).

179134	BD Key Scan Holder	
--------	--------------------	--



**Ceramil Code Scanner**

\_ Scanning the IntelliCode automatically transfers all relevant blank information to the Match software  
 \_ Easy finding of blanks already created in the database

179195	Ceramil Code Scanner	
--------	----------------------	--

Requirement: Ceramil Match 2



**Multi Die Halter**

For scanning up to 12 stumps in a single scanning process. Suitable for all Map 200/Map 400/Map 600 generations. (Only in conjunction with the universal support plate).

179136	M-Die Map 200	
179137	M-Die Map 400/600	



**Ceramil Transferkit**

For the digitization of models with jaw relation. Suitable for all Map 400/Map 600 generations.

179113	Ceramil Transferkit	
--------	---------------------	--



**Automatic impression holder**

Impression holder with automatic tilting function. Suitable for all Map 200/Map 400/Map 600 generations.

179138	Impression Holder Map 200	
179139	Impression Holder Map 400/600	



**Universal carrier plate**

For scanning different model systems. Suitable for all Map 200/Map 400/Map 600 generations.

179125	Universal support plate set incl. fixing pins and spring	
179118	Universal support plate	
179119	Fixing pins incl. fixing spring	



**All In holder**

Holder for digitizing a quadrant model. Suitable for Map 600 scanner.

179135	All-In Bar	
--------	------------	--



**Ceramill Mind**  
CAD Software Base version

179150 Ceramill Mind



**Ceramill M-Plant**  
Upgrade for Ceramill Mind

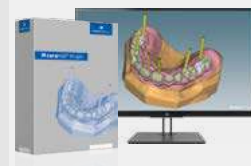
179152 Ceramill M-Plant

ATTENTION: Commercial use of this software is restricted to FDA compliant workflows or licensed dentists.



**Ceramill Artex**  
Upgrade for Ceramill Mind

179151 Ceramill Artex



**Ceramill M-Gin**  
Upgrade for Ceramill Mind

179145 Ceramill M-Gin



**Ceramill Mindforms 2.0  
by Knut Miller**  
Upgrade for Ceramill Mind

179700 Ceramill Mindforms 2.0  
by Knut Miller



**Ceramill M-Bars<sup>2</sup>**  
Upgrade for Ceramill Mind

179166 Ceramill M-Bars<sup>2</sup>



**Ceramill Mindforms Cut-back  
Extension by Knut Miller**  
Upgrade for Ceramill Mind (Upgrade for  
Knut Miller library existing customers)

179701 Ceramill Mindforms Cut-back  
Extension by Knut Miller



**Ceramill Dicom Viewer<sup>1</sup>**  
Upgrade for Ceramill Mind

179146 Ceramill Dicom Viewer<sup>1</sup>



**Ceramill M-Splint<sup>2</sup>**  
Upgrade for Ceramill Mind

179165 Ceramill M-Splint<sup>2</sup>



**Ceramill D-Flow<sup>2</sup>**  
Upgrade for Ceramill Mind

179147 Ceramill D-Flow<sup>2</sup>



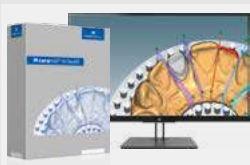
**Ceramill Microshell<sup>2</sup>**  
Upgrade for Ceramill Mind

179148 Ceramill Microshell<sup>2</sup>



**Ceramill M-Pass**  
Upgrade for Ceramill Mind

179703 Ceramill M-Pass



**Ceramill M-Build<sup>2</sup>**  
Upgrade for Ceramill Mind

179167 Ceramill M-Build<sup>2</sup>



**Ceramill M-Part<sup>3</sup>**  
Upgrade for Ceramill Mind

179702 Ceramill M-Part<sup>3</sup>



**Ceramill Mind Trusmile**  
Upgrade for Ceramill Mind

179155 Ceramill Mind Trusmile



**<sup>BD</sup>Creator<sup>®</sup> Plus<sup>3</sup>**  
CAD Software for Merz Dental

179710 <sup>BD</sup>Creator<sup>®</sup> Plus<sup>3</sup>



**Ceramill M-Smile**  
Upgrade for Ceramill Mind

179704 Ceramill M-Smile

<sup>1</sup> Graphics card with min. 2 GB RAM required (already integrated in the PC Modell T3610)

<sup>2</sup> Win7

<sup>3</sup> Graphics card with min. 4 GB RAM required (already integrated in the PC Modell T5810), Win10





### Blank holder Ceramill material 98

for Ceramill Matik, Ceramill Motion 2 and Ceramill Mikro 4X/5X

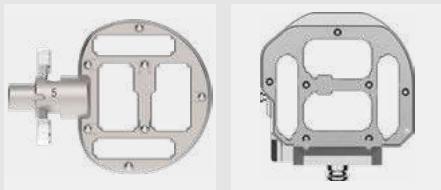
179294	Blank holder 98 Motion 2 5X
179295	Blank holder 98 Motion 2 4X / Mikro 4X
179331	Blank holder 98 Mikro 5X
181211	Blank holder 98 production



### Blank holder rotational milling Ti-Preform/rotary milling cutters

for Ceramill Matik, Ceramill Motion 2 and Ceramill Mikro IC

179278	Blank holder rotational milling Ceramill Motion 2
179614	Blank holder rotational milling Ceramill Mikro IC (incl. 760615 Roto TI 1.0; 760616 Roto TI 2.0; slide gauge)
181214	Blank holder for Ti-Preform production



### Blank holder Ceramill D-Set

for Ceramill Matik, Ceramill Motion 2 5X

179283	Blank holder denture teeth
181216	Blank holder prosthetic teeth production



### Blank holder glass ceramic and hybrid blocks (3-compartment)

for Ceramill Motion 2 4X/5X

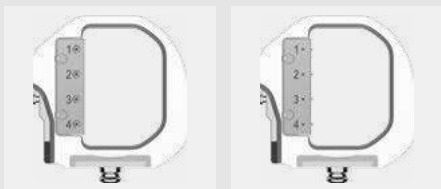
179260	Blank holder glass ceramic and hybrid blocks (3-compartment)
--------	---



### Blank holder glass ceramic and hybrid blocks (12-compartment)

for Ceramill Motion 2 4X/5X

179290	Blank holder glass ceramic and hybrid blocks (12-compartment)
--------	--



### Blank holders glass ceramics and hybrid blocks (4-fold)

for Ceramill Matik

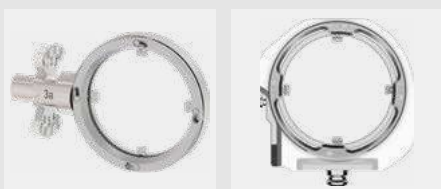
181213	Blank holder blocks UN production
181219	Blank holder blocks IV production



### Blank holder metal

for Ceramill Matik

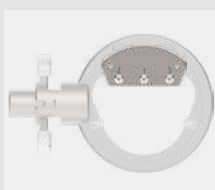
181218	Blank holder metal production
--------	-------------------------------



### Blank holder for Baltic Denture System

for Ceramill Matik and Ceramill Motion 2

179328	Blank holder Baltic Denture
181217	Blank holder BD production



### Adapter glass and hybrid ceramic blocks (3-compartment) for Ceramill material 71 blank holder

for Ceramill Mikro 4X/5X, Ceramill Motion 2

179245	Adapter for hybrid blocks (3-compartment)
--------	---





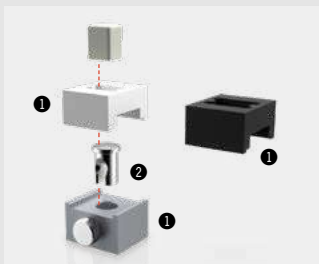
**Blank holder glass and ceramic blocks (1-compartment)**  
for Ceramill Mikro IC

179611 Blank holder grinding (universal mandrel)



**Blank holder glass and hybrid ceramic blocks (3-fold)**  
for Ceramill Mikro IC

179616 Blank holder 3-fold milling (Universal Mandrell)



**GCER Universal Bonding Kit**

Bonding aid for bonding glass ceramic blanks or lithium disilicate blanks with the Amann Girrbach holder incl. 2 attachments for different blank sizes (10 x 12 x 15, 12 x 14 x 18)

760973 1 GCER Universal Bonding Kit

760974 2 Universal holder for glass ceramic blanks 10 pcs.



**Blank holder glass ceramic blanks (triple) incl. storage rack**

For clamping glass ceramic blanks or lithium disilicate blanks into the Ceramill Motion 2

179260 Blank holder glass ceramic blanks (triple)  
incl. storage rack for Ceramill Motion 2 5X

179281 Blank holder glass ceramic blanks (triple)  
incl. storage rack for Ceramill Motion 2 4X



**Upgrade Kit Ceramill TI-Forms Ceramill Motion 2**

**760100 Upgrade Kit Ceramill TI-Forms Ceramill Motion 2**

179278 Blank holder rotational milling cutter

760673 Roto RFID 1,0 Ti

760672 Roto RFID 2,0 Ti

179285 Storage rack

				Ceramill DNA Milling Units					Material																
	Art. Nr.	Description	Ring color	Mikro 4X	Mikro 5X	Mikro IC	Motion 2	Matik	Zolid Zirconia	Ceramill Sintron	Ceramill M-Plast	Ceramill PMMA	Ceramill Peek	Ceramill Wax	Ceramill D-Set	Ceramill Splintec	Ceramill D-Wax	Ceramill TI-Preforms	Ceramill COCR	Glass ceramic	Lithium disilicates	Hybrid ceramics	VITA VIONIC/BDS	Solvay Ultaire AKP	VITA VIONIC Wax White
	760660	Roto RFID 2,5 ZI	grey	x	x		x	x	x																
	760661	Roto RFID 1,0 ZI	grey	x	x		x	x	x																
	760662	Roto RFID 0,6 ZI	grey	x	x		x	x	x																
	760663	Roto RFID 0,3 ZI	grey	x	x		x	x	x																
	760664	Roto RFID 2,5 Sintron	blue	x	x		x	x		x															
	760665	Roto RFID 1,0 Sintron	blue	x	x		x	x		x															
	760666	Roto RFID 0,6 Sintron	blue	x	x		x	x		x															
	760667	Roto RFID 0,3 Sintron	blue	x	x		x	x		x															
	760668	Roto RFID 2,5 PMMA	green	x	x		x	x				x	x			x									
	760669	Roto RFID 1,0 PMMA	green	x	x		x	x			x*	x	x			x									
	760670	Roto RFID 0,6 PMMA	green	x	x		x	x				x	x												
	760671	Roto RFID 0,3 PMMA	green	x	x		x				x*														
	760672	Roto RFID 2,0 Ti	black				x	x	x										x						
	760673	Roto RFID 1,0 Ti	black				x	x	x										x						
	760676	Diamond RFID 1,8	orange				x	x	x												x	x	x		
	760677	Diamond RFID 1,4	orange				x	x	x												x	x	x		
	760678	Diamond RFID 1,0	orange				x	x	x												x	x	x		
	760679	Diamond RFID 0,4	orange				x	x	x												x	x	x		
	760680	Roto RFID 2,5 SC	yellow		x		x	x							x**		x								x*
	760681	Roto RFID 1,0 SC	yellow				x	x							x**										x*
	760682	Roto RFID 0,6 SC	yellow				x	x							x**										x*
	760683	Roto RFID 0,3 SC	yellow				x	x							x**										x*
	760684	Roto RFID 2,5 DMB DC	white	x	x	x	x									x							x		
	760685	Roto RFID 1,0 DMB DC	white	x	x	x	x									x							x		
	760686	Roto RFID 0,6 DMB DC	white	x	x	x	x																x		
	760687	Roto RFID 0,3 DMB DC	white	x	x	x	x																x		
	760688	Roto RFID 2,5 COCR	brown						x																
	760689	Roto RFID 1,5 COCR	brown						x																
	760690	Roto RFID 1,0 COCR	brown						x																
	760692	Roto RFID 2,5 PMMA Denture	pink					x																x	
	760693	Roto RFID 1,5 PMMA Denture	pink					x																x	
	760697	Roto RFID 2,5 Model	red					x			x														
	760698	Roto RFID 2,0 Model	red					x			x														
	760694	Roto RFID 1,2 Drill	green					x																	
	751001	Roto RFID 1,2 ST	purple						x																
	760695	Roto RFID 1,0 Wax Denture	red					x	x														x		x
	760696	Roto RFID 3,0 Wax Denture	red					x	x		x												x		x
	181205	Roto RFID Kalibrierstift	purple			x		x																	

\* Processing only possible with Ceramill Matik and Ceramill Motion 2

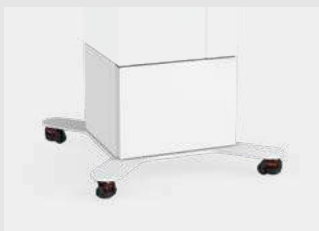
\*\* Processing only possible with Ceramill Matik



**NextDent 5100 for Ceramill**

3D printer Nextdent 5100 for Ceramill

<b>181600 NextDent 5100 - AG</b>		
Scope of delivery:		
181600	NextDent 5100 - AG	1 pc.
181602	Resin Tray - ND 5100	1 pc.
181604	Printer Platform - ND 5100	2 pcs.
181605	Filter, Carbon - ND 5100	1 pc.
181606	Filter, Intake - ND 5100	1 pc.
181607	Punch Tool - ND 5100	1 pc.
181608	Platform Scraper - ND 5100	1 pc.
181609	Brush scourig - crimp brass - ND 5100	1 pc.
181610	Part Cleaning Brush - ND 5100	1 pc.
181611	Resin Mixer - ND 5100	1 pc.



**Printer Pedestal**

Stand for Nextdent 5100 for Ceramill

181601	Printer Pedestal	1 pc.
--------	------------------	-------



**NextDent LC-3D Print Box**

Post-curing furnace for 3D printing materials

181800	NextDent LC-3D Print Box - AG	1 pc.
--------	-------------------------------	-------



**NextDent LC-3D Mixer**

Stirring device for mixing 3D printing materials

181810	NextDent LC-3D Mixer - AG	1 pc.
--------	---------------------------	-------



**Resin Tray Kit**

Material tray including Storage Garage Kit

181602	Resin Tray - ND 5100	1 pc.
--------	----------------------	-------



**Storage Garage Kit**

For safe storage of the filled material tray

181603	Storage Garage Kit - ND 5100	1 pc.
--------	------------------------------	-------



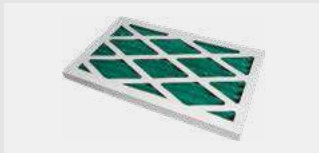
**Printer Platform**  
Construction platform

181604 Printer Platform - ND 5100 1 pc.



**Filter, Carbon**

181605 Filter, Carbon - ND 5100 1 pc.



**Filter, Intake**

181606 Filter, Intake - ND 5100 1 pc.



**Punch Tool**

Aid for separating printed objects from the construction platform

181607 Punch Tool - ND 5100 1 pc.



**Platform Scraper**

Cleaning tool

181608 Platform Scraper - ND 5100 1 pc.



**Brush scourig - Crimp Brass**

Cleaning tool

181609 Brush scourig - crimp brass - ND 5100 1 pc.



**Part Cleaning Brush**

Cleaning tool

181610 Part Cleaning Brush - ND 5100 1 pc.



**Resin Mixer**

Material mixer for material tray

181611 Resin Mixer - ND 5100 1 pc.



Zolid Gen-X Multilayer  
(16 A-D VITA + 2 Bleach shades)



Zolid Gen-X Multilayer  
(16 A-D VITA + 2 Bleach shades)

### Zolid Gen-X Multilayer

Preshaded HT+ zirconia blanks

766618	○	Zolid Gen-X ML BL3 71x14	h=14mm	1 pc.	766790	○	Zolid Gen-X ML BL1 98x12	h=12mm	1 pc.
766619	○	Zolid Gen-X ML BL3 71x16	h=16mm	1 pc.	766791	○	Zolid Gen-X ML BL1 98x14	h=14mm	1 pc.
766621	○	Zolid Gen-X ML BL3 71x20	h=20mm	1 pc.	766792	○	Zolid Gen-X ML BL1 98x16	h=16mm	1 pc.
766636	○	Zolid Gen-X ML A2 71x14	h=14mm	1 pc.	766793	○	Zolid Gen-X ML BL1 98x18	h=18mm	1 pc.
766637	○	Zolid Gen-X ML A2 71x16	h=16mm	1 pc.	766794	○	Zolid Gen-X ML BL1 98x20	h=20mm	1 pc.
766639	○	Zolid Gen-X ML A2 71x20	h=20mm	1 pc.	766795	○	Zolid Gen-X ML BL1 98x22	h=22mm	1 pc.
766645	○	Zolid Gen-X ML A3 71x14	h=14mm	1 pc.	766796	○	Zolid Gen-X ML BL1 98x25	h=25mm	1 pc.
766646	○	Zolid Gen-X ML A3 71x16	h=16mm	1 pc.	766808	○	Zolid Gen-X ML BL3 98x12	h=12mm	1 pc.
766648	○	Zolid Gen-X ML A3 71x20	h=20mm	1 pc.	766809	○	Zolid Gen-X ML BL3 98x14	h=14mm	1 pc.
766654	○	Zolid Gen-X ML A3,5 71x14	h=14mm	1 pc.	766810	○	Zolid Gen-X ML BL3 98x16	h=16mm	1 pc.
766655	○	Zolid Gen-X ML A3,5 71x16	h=16mm	1 pc.	766811	○	Zolid Gen-X ML BL3 98x18	h=18mm	1 pc.
766657	○	Zolid Gen-X ML A3,5 71x20	h=20mm	1 pc.	766812	○	Zolid Gen-X ML BL3 98x20	h=20mm	1 pc.
766672	○	Zolid Gen-X ML B1 71x14	h=14mm	1 pc.	766813	○	Zolid Gen-X ML BL3 98x22	h=22mm	1 pc.
766673	○	Zolid Gen-X ML B1 71x16	h=16mm	1 pc.	766814	○	Zolid Gen-X ML BL3 98x25	h=25mm	1 pc.
766675	○	Zolid Gen-X ML B1 71x20	h=20mm	1 pc.	766817	○	Zolid Gen-X ML A1 98x12	h=12mm	1 pc.
766681	○	Zolid Gen-X ML B2 71x14	h=14mm	1 pc.	766818	○	Zolid Gen-X ML A1 98x14	h=14mm	1 pc.
766682	○	Zolid Gen-X ML B2 71x16	h=16mm	1 pc.	766819	○	Zolid Gen-X ML A1 98x16	h=16mm	1 pc.
766684	○	Zolid Gen-X ML B2 71x20	h=20mm	1 pc.	766820	○	Zolid Gen-X ML A1 98x18	h=18mm	1 pc.
766708	○	Zolid Gen-X ML C1 71x14	h=14mm	1 pc.	766821	○	Zolid Gen-X ML A1 98x20	h=20mm	1 pc.
766709	○	Zolid Gen-X ML C1 71x16	h=16mm	1 pc.	766822	○	Zolid Gen-X ML A1 98x22	h=22mm	1 pc.
766711	○	Zolid Gen-X ML C1 71x20	h=20mm	1 pc.	766823	○	Zolid Gen-X ML A1 98x25	h=25mm	1 pc.
766717	○	Zolid Gen-X ML C2 71x14	h=14mm	1 pc.	766826	○	Zolid Gen-X ML A2 98x12	h=12mm	1 pc.
766718	○	Zolid Gen-X ML C2 71x16	h=16mm	1 pc.	766827	○	Zolid Gen-X ML A2 98x14	h=14mm	1 pc.
766720	○	Zolid Gen-X ML C2 71x20	h=20mm	1 pc.	766828	○	Zolid Gen-X ML A2 98x16	h=16mm	1 pc.
766744	○	Zolid Gen-X ML D2 71x14	h=14mm	1 pc.	766829	○	Zolid Gen-X ML A2 98x18	h=18mm	1 pc.
766745	○	Zolid Gen-X ML D2 71x16	h=16mm	1 pc.	766830	○	Zolid Gen-X ML A2 98x20	h=20mm	1 pc.
766747	○	Zolid Gen-X ML D2 71x20	h=20mm	1 pc.	766831	○	Zolid Gen-X ML A2 98x22	h=22mm	1 pc.
					766832	○	Zolid Gen-X ML A2 98x25	h=25mm	1 pc.
					766835	○	Zolid Gen-X ML A3 98x12	h=12mm	1 pc.
					766836	○	Zolid Gen-X ML A3 98x14	h=14mm	1 pc.
					766837	○	Zolid Gen-X ML A3 98x16	h=16mm	1 pc.
					766838	○	Zolid Gen-X ML A3 98x18	h=18mm	1 pc.
					766839	○	Zolid Gen-X ML A3 98x20	h=20mm	1 pc.
					766840	○	Zolid Gen-X ML A3 98x22	h=22mm	1 pc.
					766841	○	Zolid Gen-X ML A3 98x25	h=25mm	1 pc.
					766844	○	Zolid Gen-X ML A3,5 98x12	h=12mm	1 pc.
					766845	○	Zolid Gen-X ML A3,5 98x14	h=14mm	1 pc.
					766846	○	Zolid Gen-X ML A3,5 98x16	h=16mm	1 pc.
					766847	○	Zolid Gen-X ML A3,5 98x18	h=18mm	1 pc.
					766848	○	Zolid Gen-X ML A3,5 98x20	h=20mm	1 pc.
					766849	○	Zolid Gen-X ML A3,5 98x22	h=22mm	1 pc.
					766850	○	Zolid Gen-X ML A3,5 98x25	h=25mm	1 pc.
					766853	○	Zolid Gen-X ML A4 98x12	h=12mm	1 pc.
					766854	○	Zolid Gen-X ML A4 98x14	h=14mm	1 pc.
					766855	○	Zolid Gen-X ML A4 98x16	h=16mm	1 pc.
					766856	○	Zolid Gen-X ML A4 98x18	h=18mm	1 pc.
					766857	○	Zolid Gen-X ML A4 98x20	h=20mm	1 pc.
					766858	○	Zolid Gen-X ML A4 98x22	h=22mm	1 pc.
					766859	○	Zolid Gen-X ML A4 98x25	h=25mm	1 pc.





766862	○ Zolid Gen-X ML B1 98x12	h=12mm	1 pc.	766925	○ Zolid Gen-X ML C4 98x12	h=12mm	1 pc.
766863	○ Zolid Gen-X ML B1 98x14	h=14mm	1 pc.	766926	○ Zolid Gen-X ML C4 98x14	h=14mm	1 pc.
766864	○ Zolid Gen-X ML B1 98x16	h=16mm	1 pc.	766927	○ Zolid Gen-X ML C4 98x16	h=16mm	1 pc.
766865	○ Zolid Gen-X ML B1 98x18	h=18mm	1 pc.	766928	○ Zolid Gen-X ML C4 98x18	h=18mm	1 pc.
766866	○ Zolid Gen-X ML B1 98x20	h=20mm	1 pc.	766929	○ Zolid Gen-X ML C4 98x20	h=20mm	1 pc.
766867	○ Zolid Gen-X ML B1 98x22	h=22mm	1 pc.	766930	○ Zolid Gen-X ML C4 98x22	h=22mm	1 pc.
766868	○ Zolid Gen-X ML B1 98x25	h=25mm	1 pc.	766931	○ Zolid Gen-X ML C4 98x25	h=25mm	1 pc.
766871	○ Zolid Gen-X ML B2 98x12	h=12mm	1 pc.	766934	○ Zolid Gen-X ML D2 98x12	h=12mm	1 pc.
766872	○ Zolid Gen-X ML B2 98x14	h=14mm	1 pc.	766935	○ Zolid Gen-X ML D2 98x14	h=14mm	1 pc.
766873	○ Zolid Gen-X ML B2 98x16	h=16mm	1 pc.	766936	○ Zolid Gen-X ML D2 98x16	h=16mm	1 pc.
766874	○ Zolid Gen-X ML B2 98x18	h=18mm	1 pc.	766937	○ Zolid Gen-X ML D2 98x18	h=18mm	1 pc.
766875	○ Zolid Gen-X ML B2 98x20	h=20mm	1 pc.	766938	○ Zolid Gen-X ML D2 98x20	h=20mm	1 pc.
766876	○ Zolid Gen-X ML B2 98x22	h=22mm	1 pc.	766939	○ Zolid Gen-X ML D2 98x22	h=22mm	1 pc.
766877	○ Zolid Gen-X ML B2 98x25	h=25mm	1 pc.	766940	○ Zolid Gen-X ML D2 98x25	h=25mm	1 pc.
766880	○ Zolid Gen-X ML B3 98x12	h=12mm	1 pc.	766943	○ Zolid Gen-X ML D3 98x12	h=12mm	1 pc.
766881	○ Zolid Gen-X ML B3 98x14	h=14mm	1 pc.	766944	○ Zolid Gen-X ML D3 98x14	h=14mm	1 pc.
766882	○ Zolid Gen-X ML B3 98x16	h=16mm	1 pc.	766945	○ Zolid Gen-X ML D3 98x16	h=16mm	1 pc.
766883	○ Zolid Gen-X ML B3 98x18	h=18mm	1 pc.	766946	○ Zolid Gen-X ML D3 98x18	h=18mm	1 pc.
766884	○ Zolid Gen-X ML B3 98x20	h=20mm	1 pc.	766947	○ Zolid Gen-X ML D3 98x20	h=20mm	1 pc.
766885	○ Zolid Gen-X ML B3 98x22	h=22mm	1 pc.	766948	○ Zolid Gen-X ML D3 98x22	h=22mm	1 pc.
766886	○ Zolid Gen-X ML B3 98x25	h=25mm	1 pc.	766949	○ Zolid Gen-X ML D3 98x25	h=25mm	1 pc.
766889	○ Zolid Gen-X ML B4 98x12	h=12mm	1 pc.	766952	○ Zolid Gen-X ML D4 98x12	h=12mm	1 pc.
766890	○ Zolid Gen-X ML B4 98x14	h=14mm	1 pc.	766953	○ Zolid Gen-X ML D4 98x14	h=14mm	1 pc.
766891	○ Zolid Gen-X ML B4 98x16	h=16mm	1 pc.	766954	○ Zolid Gen-X ML D4 98x16	h=16mm	1 pc.
766892	○ Zolid Gen-X ML B4 98x18	h=18mm	1 pc.	766955	○ Zolid Gen-X ML D4 98x18	h=18mm	1 pc.
766893	○ Zolid Gen-X ML B4 98x20	h=20mm	1 pc.	766956	○ Zolid Gen-X ML D4 98x20	h=20mm	1 pc.
766894	○ Zolid Gen-X ML B4 98x22	h=22mm	1 pc.	766957	○ Zolid Gen-X ML D4 98x22	h=22mm	1 pc.
766895	○ Zolid Gen-X ML B4 98x25	h=25mm	1 pc.	766958	○ Zolid Gen-X ML D4 98x25	h=25mm	1 pc.
766898	○ Zolid Gen-X ML C1 98x12	h=12mm	1 pc.				
766899	○ Zolid Gen-X ML C1 98x14	h=14mm	1 pc.				
766900	○ Zolid Gen-X ML C1 98x16	h=16mm	1 pc.				
766901	○ Zolid Gen-X ML C1 98x18	h=18mm	1 pc.				
766902	○ Zolid Gen-X ML C1 98x20	h=20mm	1 pc.				
766903	○ Zolid Gen-X ML C1 98x22	h=22mm	1 pc.				
766904	○ Zolid Gen-X ML C1 98x25	h=25mm	1 pc.				
766907	○ Zolid Gen-X ML C2 98x12	h=12mm	1 pc.				
766908	○ Zolid Gen-X ML C2 98x14	h=14mm	1 pc.				
766909	○ Zolid Gen-X ML C2 98x16	h=16mm	1 pc.				
766910	○ Zolid Gen-X ML C2 98x18	h=18mm	1 pc.				
766911	○ Zolid Gen-X ML C2 98x20	h=20mm	1 pc.				
766912	○ Zolid Gen-X ML C2 98x22	h=22mm	1 pc.				
766913	○ Zolid Gen-X ML C2 98x25	h=25mm	1 pc.				
766916	○ Zolid Gen-X ML C3 98x12	h=12mm	1 pc.				
766917	○ Zolid Gen-X ML C3 98x14	h=14mm	1 pc.				
766918	○ Zolid Gen-X ML C3 98x16	h=16mm	1 pc.				
766919	○ Zolid Gen-X ML C3 98x18	h=18mm	1 pc.				
766920	○ Zolid Gen-X ML C3 98x20	h=20mm	1 pc.				
766921	○ Zolid Gen-X ML C3 98x22	h=22mm	1 pc.				
766922	○ Zolid Gen-X ML C3 98x25	h=25mm	1 pc.				



Zolid HT+ Preshades  
(16 A-D VITA shades)



Zolid HT+ Preshades  
(16 A-D VITA shades)

### Zolid HT+ Preshades

Preshaded SHT zirconia blanks

766032	○ Zolid HT+ PS BL 71x14	h = 14 mm	1 pc.	766152	○ Zolid HT+ PS BL 98x14	h = 14 mm	1 pc.
766033	○ Zolid HT+ PS BL 71x16	h = 16 mm	1 pc.	766153	○ Zolid HT+ PS BL 98x16	h = 16 mm	1 pc.
766035	○ Zolid HT+ PS BL 71x20	h = 20 mm	1 pc.	766155	○ Zolid HT+ PS BL 98x20	h = 20 mm	1 pc.
766039	○ Zolid HT+ PS A1 71x14	h = 14 mm	1 pc.	766159	○ Zolid HT+ PS A1 98x14	h = 14 mm	1 pc.
766040	○ Zolid HT+ PS A1 71x16	h = 16 mm	1 pc.	766160	○ Zolid HT+ PS A1 98x16	h = 16 mm	1 pc.
766042	○ Zolid HT+ PS A1 71x20	h = 20 mm	1 pc.	766162	○ Zolid HT+ PS A1 98x20	h = 20 mm	1 pc.
766046	○ Zolid HT+ PS A2 71x14	h = 14 mm	1 pc.	766166	○ Zolid HT+ PS A2 98x14	h = 14 mm	1 pc.
766047	○ Zolid HT+ PS A2 71x16	h = 16 mm	1 pc.	766167	○ Zolid HT+ PS A2 98x16	h = 16 mm	1 pc.
766049	○ Zolid HT+ PS A2 71x20	h = 20 mm	1 pc.	766169	○ Zolid HT+ PS A2 98x20	h = 20 mm	1 pc.
766053	○ Zolid HT+ PS A3 71x14	h = 14 mm	1 pc.	766173	○ Zolid HT+ PS A3 98x14	h = 14 mm	1 pc.
766054	○ Zolid HT+ PS A3 71x16	h = 16 mm	1 pc.	766174	○ Zolid HT+ PS A3 98x16	h = 16 mm	1 pc.
766056	○ Zolid HT+ PS A3 71x20	h = 20 mm	1 pc.	766176	○ Zolid HT+ PS A3 98x20	h = 20 mm	1 pc.
766060	○ Zolid HT+ PS A3.5 71x14	h = 14 mm	1 pc.	766180	○ Zolid HT+ PS A3.5 98x14	h = 14 mm	1 pc.
766061	○ Zolid HT+ PS A3.5 71x16	h = 16 mm	1 pc.	766181	○ Zolid HT+ PS A3.5 98x16	h = 16 mm	1 pc.
766063	○ Zolid HT+ PS A3.5 71x20	h = 20 mm	1 pc.	766183	○ Zolid HT+ PS A3.5 98x20	h = 20 mm	1 pc.
766067	○ Zolid HT+ PS A4 71x14	h = 14 mm	1 pc.	766187	○ Zolid HT+ PS A4 98x14	h = 14 mm	1 pc.
766068	○ Zolid HT+ PS A4 71x16	h = 16 mm	1 pc.	766188	○ Zolid HT+ PS A4 98x16	h = 16 mm	1 pc.
766070	○ Zolid HT+ PS A4 71x20	h = 20 mm	1 pc.	766190	○ Zolid HT+ PS A4 98x20	h = 20 mm	1 pc.
766074	○ Zolid HT+ PS B1 71x14	h = 14 mm	1 pc.	766194	○ Zolid HT+ PS B1 98x14	h = 14 mm	1 pc.
766075	○ Zolid HT+ PS B1 71x16	h = 16 mm	1 pc.	766195	○ Zolid HT+ PS B1 98x16	h = 16 mm	1 pc.
766077	○ Zolid HT+ PS B1 71x20	h = 20 mm	1 pc.	766197	○ Zolid HT+ PS B1 98x20	h = 20 mm	1 pc.
766081	○ Zolid HT+ PS B2 71x14	h = 14 mm	1 pc.	766201	○ Zolid HT+ PS B2 98x14	h = 14 mm	1 pc.
766082	○ Zolid HT+ PS B2 71x16	h = 16 mm	1 pc.	766202	○ Zolid HT+ PS B2 98x16	h = 16 mm	1 pc.
766084	○ Zolid HT+ PS B2 71x20	h = 20 mm	1 pc.	766204	○ Zolid HT+ PS B2 98x20	h = 20 mm	1 pc.
766088	○ Zolid HT+ PS B3 71x14	h = 14 mm	1 pc.	766208	○ Zolid HT+ PS B3 98x14	h = 14 mm	1 pc.
766089	○ Zolid HT+ PS B3 71x16	h = 16 mm	1 pc.	766209	○ Zolid HT+ PS B3 98x16	h = 16 mm	1 pc.
766091	○ Zolid HT+ PS B3 71x20	h = 20 mm	1 pc.	766211	○ Zolid HT+ PS B3 98x20	h = 20 mm	1 pc.
766095	○ Zolid HT+ PS B4 71x14	h = 14 mm	1 pc.	766215	○ Zolid HT+ PS B4 98x14	h = 14 mm	1 pc.
766096	○ Zolid HT+ PS B4 71x16	h = 16 mm	1 pc.	766216	○ Zolid HT+ PS B4 98x16	h = 16 mm	1 pc.
766098	○ Zolid HT+ PS B4 71x20	h = 20 mm	1 pc.	766218	○ Zolid HT+ PS B4 98x20	h = 20 mm	1 pc.
766102	○ Zolid HT+ PS C1 71x14	h = 14 mm	1 pc.	766222	○ Zolid HT+ PS C1 98x14	h = 14 mm	1 pc.
766103	○ Zolid HT+ PS C1 71x16	h = 16 mm	1 pc.	766223	○ Zolid HT+ PS C1 98x16	h = 16 mm	1 pc.
766105	○ Zolid HT+ PS C1 71x20	h = 20 mm	1 pc.	766225	○ Zolid HT+ PS C1 98x20	h = 20 mm	1 pc.
766109	○ Zolid HT+ PS C2 71x14	h = 14 mm	1 pc.	766229	○ Zolid HT+ PS C2 98x14	h = 14 mm	1 pc.
766110	○ Zolid HT+ PS C2 71x16	h = 16 mm	1 pc.	766230	○ Zolid HT+ PS C2 98x16	h = 16 mm	1 pc.
766112	○ Zolid HT+ PS C2 71x20	h = 20 mm	1 pc.	766232	○ Zolid HT+ PS C2 98x20	h = 20 mm	1 pc.
766116	○ Zolid HT+ PS C3 71x14	h = 14 mm	1 pc.	766236	○ Zolid HT+ PS C3 98x14	h = 14 mm	1 pc.
766117	○ Zolid HT+ PS C3 71x16	h = 16 mm	1 pc.	766237	○ Zolid HT+ PS C3 98x16	h = 16 mm	1 pc.
766119	○ Zolid HT+ PS C3 71x20	h = 20 mm	1 pc.	766239	○ Zolid HT+ PS C3 98x20	h = 20 mm	1 pc.
766123	○ Zolid HT+ PS C4 71x14	h = 14 mm	1 pc.	766243	○ Zolid HT+ PS C4 98x14	h = 14 mm	1 pc.
766124	○ Zolid HT+ PS C4 71x16	h = 16 mm	1 pc.	766244	○ Zolid HT+ PS C4 98x16	h = 16 mm	1 pc.
766126	○ Zolid HT+ PS C4 71x20	h = 20 mm	1 pc.	766246	○ Zolid HT+ PS C4 98x20	h = 20 mm	1 pc.
766130	○ Zolid HT+ PS D2 71x14	h = 14 mm	1 pc.	766250	○ Zolid HT+ PS D2 98x14	h = 14 mm	1 pc.
766131	○ Zolid HT+ PS D2 71x16	h = 16 mm	1 pc.	766251	○ Zolid HT+ PS D2 98x16	h = 16 mm	1 pc.
766133	○ Zolid HT+ PS D2 71x20	h = 20 mm	1 pc.	766253	○ Zolid HT+ PS D2 98x20	h = 20 mm	1 pc.
766137	○ Zolid HT+ PS D3 71x14	h = 14 mm	1 pc.	766257	○ Zolid HT+ PS D3 98x14	h = 14 mm	1 pc.
766138	○ Zolid HT+ PS D3 71x16	h = 16 mm	1 pc.	766258	○ Zolid HT+ PS D3 98x16	h = 16 mm	1 pc.
766140	○ Zolid HT+ PS D3 71x20	h = 20 mm	1 pc.	766260	○ Zolid HT+ PS D3 98x20	h = 20 mm	1 pc.
766144	○ Zolid HT+ PS D4 71x14	h = 14 mm	1 pc.	766264	○ Zolid HT+ PS D4 98x14	h = 14 mm	1 pc.
766145	○ Zolid HT+ PS D4 71x16	h = 16 mm	1 pc.	766265	○ Zolid HT+ PS D4 98x16	h = 16 mm	1 pc.
766147	○ Zolid HT+ PS D4 71x20	h = 20 mm	1 pc.	766267	○ Zolid HT+ PS D4 98x20	h = 20 mm	1 pc.





Zolid HT+ White



Zolid HT+ White

### Zolid HT+ White

HT zirconia blanks

766009	△ Zolid HT+ White 71x10	h=10 mm	1 pc.
766010	△ Zolid HT+ White 71x12	h=12 mm	1 pc.
766011	△ Zolid HT+ White 71x14	h=14 mm	1 pc.
766012	△ Zolid HT+ White 71x16	h=16 mm	1 pc.
766013	△ Zolid HT+ White 71x18	h=18 mm	1 pc.
766014	△ Zolid HT+ White 71x20	h=20 mm	1 pc.
766016	△ Zolid HT+ White 71x25	h=25 mm	1 pc.

766020	○ Zolid HT+ White 98x10	h=10 mm	1 pc.
766021	○ Zolid HT+ White 98x12	h=12 mm	1 pc.
766022	○ Zolid HT+ White 98x14	h=14 mm	1 pc.
766023	○ Zolid HT+ White 98x16	h=16 mm	1 pc.
766024	○ Zolid HT+ White 98x18	h=18 mm	1 pc.
766025	○ Zolid HT+ White 98x20	h=20 mm	1 pc.
766027	○ Zolid HT+ White 98x25	h=25 mm	1 pc.



Zolid FX White



Zolid FX White

### Zolid FX White

SHT zirconia blank

760122	△ Zolid FX 71 XS	h=12 mm	1 pc.
760123	△ Zolid FX 71 S	h=14 mm	1 pc.
760124	△ Zolid FX 71	h=16 mm	1 pc.
760125	△ Zolid FX 71 M	h=18 mm	1 pc.
760126	△ Zolid FX 71 L	h=20 mm	1 pc.
760127	△ Zolid FX 71 XL	h=25 mm	1 pc.

760130	○ Zolid FX 98x12 N	h=12 mm	1 pc.
760131	○ Zolid FX 98x14 N	h=14 mm	1 pc.
760132	○ Zolid FX 98x16 N	h=16 mm	1 pc.
760133	○ Zolid FX 98x18 N	h=18 mm	1 pc.
760134	○ Zolid FX 98x20 N	h=20 mm	1 pc.



Zolid FX Multilayer



Zolid FX Multilayer

### Zolid FX Multilayer

Stained, polychromatic SHT zirconia blanks

761733	○ Zolid FX ML 0/A1 71 S	h=14 mm	1 pc.	761776	○ Zolid FX ML 0/A1 98x14 N	h=14 mm	1 pc.
761734	○ Zolid FX ML 0/A1 71	h=16 mm	1 pc.	761777	○ Zolid FX ML 0/A1 98x16 N	h=16 mm	1 pc.
761735	○ Zolid FX ML 0/A1 71 L	h=20 mm	1 pc.	761778	○ Zolid FX ML 0/A1 98x20 N	h=20 mm	1 pc.
761737	○ Zolid FX ML A2/A3 71 S	h=14 mm	1 pc.	761780	○ Zolid FX ML A2/A3 98x14 N	h=14 mm	1 pc.
761738	○ Zolid FX ML A2/A3 71	h=16 mm	1 pc.	761781	○ Zolid FX ML A2/A3 98x16 N	h=16 mm	1 pc.
761739	○ Zolid FX ML A2/A3 71 L	h=20 mm	1 pc.	761782	○ Zolid FX ML A2/A3 98x20 N	h=20 mm	1 pc.
761741	○ Zolid FX ML A3.5/A4 71 S	h=14 mm	1 pc.	761784	○ Zolid FX ML A3.5/A4 98x14 N	h=14 mm	1 pc.
761742	○ Zolid FX ML A3.5/A4 71	h=16 mm	1 pc.	761785	○ Zolid FX ML A3.5/A4 98x16 N	h=16 mm	1 pc.
761743	○ Zolid FX ML A3.5/A4 71 L	h=20 mm	1 pc.	761786	○ Zolid FX ML A3.5/A4 98x20 N	h=20 mm	1 pc.
761745	○ Zolid FX ML 0/B1 71 S	h=14 mm	1 pc.	761788	○ Zolid FX ML 0/B1 98x14 N	h=14 mm	1 pc.
761746	○ Zolid FX ML 0/B1 71	h=16 mm	1 pc.	761789	○ Zolid FX ML 0/B1 98x16 N	h=16 mm	1 pc.
761747	○ Zolid FX ML 0/B1 71 L	h=20 mm	1 pc.	761790	○ Zolid FX ML 0/B1 98x20 N	h=20 mm	1 pc.
761749	○ Zolid FX ML B2/B3 71 S	h=14 mm	1 pc.	761792	○ Zolid FX ML B2/B3 98x14 N	h=14 mm	1 pc.
761750	○ Zolid FX ML B2/B3 71	h=16 mm	1 pc.	761793	○ Zolid FX ML B2/B3 98x16 N	h=16 mm	1 pc.
761751	○ Zolid FX ML B2/B3 71 L	h=20 mm	1 pc.	761794	○ Zolid FX ML B2/B3 98x20 N	h=20 mm	1 pc.
761753	○ Zolid FX ML B3/B4 71 S	h=14 mm	1 pc.	761796	○ Zolid FX ML B3/B4 98x14 N	h=14 mm	1 pc.
761754	○ Zolid FX ML B3/B4 71	h=16 mm	1 pc.	761797	○ Zolid FX ML B3/B4 98x16 N	h=16 mm	1 pc.
761755	○ Zolid FX ML B3/B4 71 L	h=20 mm	1 pc.	761798	○ Zolid FX ML B3/B4 98x20 N	h=20 mm	1 pc.
761757	○ Zolid FX ML C1/C2 71 S	h=14 mm	1 pc.	761800	○ Zolid FX ML C1/C2 98x14 N	h=14 mm	1 pc.
761758	○ Zolid FX ML C1/C2	h=16 mm	1 pc.	761801	○ Zolid FX ML C1/C2 98x16 N	h=16 mm	1 pc.
761759	○ Zolid FX ML C1/C2 71 L	h=20 mm	1 pc.	761802	○ Zolid FX ML C1/C2 98x20 N	h=20 mm	1 pc.
761761	○ Zolid FX ML C3/C4 71 S	h=14 mm	1 pc.	761804	○ Zolid FX ML C3/C4 98x14 N	h=14 mm	1 pc.
761762	○ Zolid FX ML C3/C4	h=16 mm	1 pc.	761805	○ Zolid FX ML C3/C4 98x16 N	h=16 mm	1 pc.
761763	○ Zolid FX ML C3/C4 71 L	h=20 mm	1 pc.	761806	○ Zolid FX ML C3/C4 98x20 N	h=20 mm	1 pc.
761765	○ Zolid FX ML D2/D3 71 S	h=14 mm	1 pc.	761808	○ Zolid FX ML D2/D3 98x14 N	h=14 mm	1 pc.
761766	○ Zolid FX ML D2/D3	h=16 mm	1 pc.	761809	○ Zolid FX ML D2/D3 98x16 N	h=16 mm	1 pc.
761767	○ Zolid FX ML D2/D3 71 L	h=20 mm	1 pc.	761810	○ Zolid FX ML D2/D3 98x20 N	h=20 mm	1 pc.
761769	○ Zolid FX ML D3/D4 71 S	h=14 mm	1 pc.	761812	○ Zolid FX ML D3/D4 98x14 N	h=14 mm	1 pc.
761770	○ Zolid FX ML D3/D4	h=16 mm	1 pc.	761813	○ Zolid FX ML D3/D4 98x16 N	h=16 mm	1 pc.
761771	○ Zolid FX ML D3/D4 71 L	h=20 mm	1 pc.	761814	○ Zolid FX ML D3/D4 98x20 N	h=20 mm	1 pc.



ZI White



ZI White

### ZI White

LT zirconia blanks

760172	○ ZI 71 XS	h=12 mm	1 pc.	760221	○ ZI CAM 98x14 N	h=14 mm	1 pc.
760173	○ ZI 71 S	h=14 mm	1 pc.	760223	○ ZI CAM 98x16 N	h=16 mm	1 pc.
760174	○ ZI 71	h=16 mm	1 pc.	760225	○ ZI CAM 98x18 N	h=18 mm	1 pc.
760176	○ ZI 71 M	h=18 mm	1 pc.	760227	○ ZI CAM 98x20 N	h=20 mm	1 pc.
760184	○ ZI 71 L	h=20 mm	1 pc.	760229	○ ZI CAM 98x25 N	h=25 mm	1 pc.
760175	○ ZI 71 XL	h=25 mm	1 pc.				

Product range may vary according to country-specific approval status.





Zolid FX Multilayer



Zolid FX Multilayer

### Zolid FX Multilayer

Polychromatic, super-high translucent zirconia,  
Stained, polychromatic SHT zirconia blanks, Block form AG mandrell

761817		Zolid FX ML 0/A1	C20	20 x 19 mm	3 pcs.
761818		Zolid FX ML 0/A1	B40	40 x 19 mm	3 pcs.
761820		Zolid FX ML A2/A3	C20	20 x 19 mm	3 pcs.
761821		Zolid FX ML A2/A3	B40	40 x 19 mm	3 pcs.
761823		Zolid FX ML A3.5/A4	C20	20 x 19 mm	3 pcs.
761824		Zolid FX ML A3.5/A4	B40	40 x 19 mm	3 pcs.
761826		Zolid FX ML 0/B1	C20	20 x 19 mm	3 pcs.
761827		Zolid FX ML 0/B1	B40	40 x 19 mm	3 pcs.
761829		Zolid FX ML B2/B3	C20	20 x 19 mm	3 pcs.
761830		Zolid FX ML B2/B3	B40	40 x 19 mm	3 pcs.
761832		Zolid FX ML B3/B4	C20	20 x 19 mm	3 pcs.
761833		Zolid FX ML B3/B4	B40	40 x 19 mm	3 pcs.
761835		Zolid FX ML C1/C2	C20	20 x 19 mm	3 pcs.
761836		Zolid FX ML C1/C2	B40	40 x 19 mm	3 pcs.
761838		Zolid FX ML C3/C4	C20	20 x 19 mm	3 pcs.
761839		Zolid FX ML C3/C4	B40	40 x 19 mm	3 pcs.
761841		Zolid FX ML D2/D3	C20	20 x 19 mm	3 pcs.
761842		Zolid FX ML D2/D3	B40	40 x 19 mm	3 pcs.
761844		Zolid FX ML D3/D4	C20	20 x 19 mm	3 pcs.
761845		Zolid FX ML D3/D4	B40	40 x 19 mm	3 pcs.

Block form universal mandrell for third-party systems

761854		Zolid FX ML 0/A1	C20 UN	20 x 19 mm	3 pcs.
761855		Zolid FX ML 0/A1	B40 UN	40 x 19 mm	3 pcs.
761857		Zolid FX ML A2/A3	C20 UN	20 x 19 mm	3 pcs.
761858		Zolid FX ML A2/A3	B40 UN	40 x 19 mm	3 pcs.
761860		Zolid FX ML A3.5/A4	C20 UN	20 x 19 mm	3 pcs.
761861		Zolid FX ML A3.5/A4	B40 UN	40 x 19 mm	3 pcs.
761863		Zolid FX ML 0/B1	C20 UN	20 x 19 mm	3 pcs.
761864		Zolid FX ML 0/B1	B40 UN	40 x 19 mm	3 pcs.
761866		Zolid FX ML B2/B3	C20 UN	20 x 19 mm	3 pcs.
761867		Zolid FX ML B2/B3	B40 UN	40 x 19 mm	3 pcs.
761869		Zolid FX ML B3/B4	C20 UN	20 x 19 mm	3 pcs.
761870		Zolid FX ML B3/B4	B40 UN	40 x 19 mm	3 pcs.
761872		Zolid FX ML C1/C2	C20 UN	20 x 19 mm	3 pcs.
761873		Zolid FX ML C1/C2	B40 UN	40 x 19 mm	3 pcs.
761875		Zolid FX ML C3/C4	C20 UN	20 x 19 mm	3 pcs.
761876		Zolid FX ML C3/C4	B40 UN	40 x 19 mm	3 pcs.
761878		Zolid FX ML D2/D3	C20 UN	20 x 19 mm	3 pcs.
761879		Zolid FX ML D2/D3	B40 UN	40 x 19 mm	3 pcs.
761881		Zolid FX ML D3/D4	C20 UN	20 x 19 mm	3 pcs.
761882		Zolid FX ML D3/D4	B40 UN	40 x 19 mm	3 pcs.



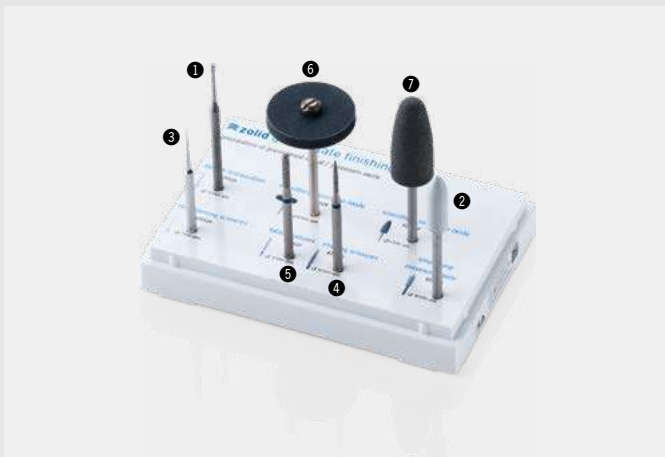
Zolid DRS Multilayer

### Zolid DRS Multilayer

Polychromatic high translucent zirconia blanks, Block form universal mandrell

766490		Zolid DRS BL1	C20 UN	20 x 19 mm	3 pcs.
766492		Zolid DRS BL1	B40 UN	40 x 19 mm	3 pcs.
766500		Zolid DRS BL3	C20 UN	20 x 19 mm	3 pcs.
766502		Zolid DRS BL3	B40 UN	40 x 19 mm	3 pcs.
766505		Zolid DRS A1	C20 UN	20 x 19 mm	3 pcs.
766507		Zolid DRS A1	B40 UN	40 x 19 mm	3 pcs.
766510		Zolid DRS A2	C20 UN	20 x 19 mm	3 pcs.
766512		Zolid DRS A2	B40 UN	40 x 19 mm	3 pcs.
766515		Zolid DRS A3	C20 UN	20 x 19 mm	3 pcs.
766517		Zolid DRS A3	B40 UN	40 x 19 mm	3 pcs.
766520		Zolid DRS A3,5	C20 UN	20 x 19 mm	3 pcs.
766522		Zolid DRS A3,5	B40 UN	40 x 19 mm	3 pcs.
766525		Zolid DRS A4	C20 UN	20 x 19 mm	3 pcs.
766527		Zolid DRS A4	B40 UN	40 x 19 mm	3 pcs.
766530		Zolid DRS B1	C20 UN	20 x 19 mm	3 pcs.
766532		Zolid DRS B1	B40 UN	40 x 19 mm	3 pcs.
766535		Zolid DRS B2	C20 UN	20 x 19 mm	3 pcs.
766537		Zolid DRS B2	B40 UN	40 x 19 mm	3 pcs.
766540		Zolid DRS B3	C20 UN	20 x 19 mm	3 pcs.
766542		Zolid DRS B3	B40 UN	40 x 19 mm	3 pcs.
766545		Zolid DRS B4	C20 UN	20 x 19 mm	3 pcs.
766547		Zolid DRS B4	B40 UN	40 x 19 mm	3 pcs.
766550		Zolid DRS C1	C20 UN	20 x 19 mm	3 pcs.
766552		Zolid DRS C1	B40 UN	40 x 19 mm	3 pcs.
766555		Zolid DRS C2	C20 UN	20 x 19 mm	3 pcs.
766557		Zolid DRS C2	B40 UN	40 x 19 mm	3 pcs.
766560		Zolid DRS C3	C20 UN	20 x 19 mm	3 pcs.
766562		Zolid DRS C3	B40 UN	40 x 19 mm	3 pcs.
766565		Zolid DRS C4	C20 UN	20 x 19 mm	3 pcs.
766567		Zolid DRS C4	B40 UN	40 x 19 mm	3 pcs.
766570		Zolid DRS D2	C20 UN	20 x 19 mm	3 pcs.
766572		Zolid DRS D2	B40 UN	40 x 19 mm	3 pcs.
766575		Zolid DRS D3	C20 UN	20 x 19 mm	3 pcs.
766577		Zolid DRS D3	B40 UN	40 x 19 mm	3 pcs.
766580		Zolid DRS D4	C20 UN	20 x 19 mm	3 pcs.
766582		Zolid DRS D4	B40 UN	40 x 19 mm	3 pcs.

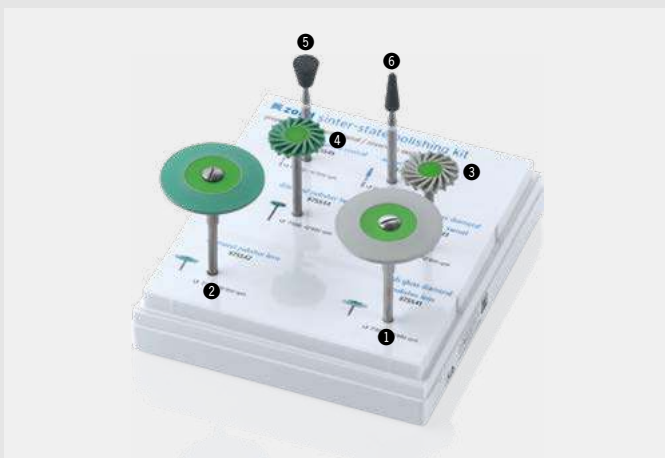




### Zolid Green-State Finishing Kit

Rotary instruments for dental technicians for preparing sintering metal or zirconia in the pre-sintered state

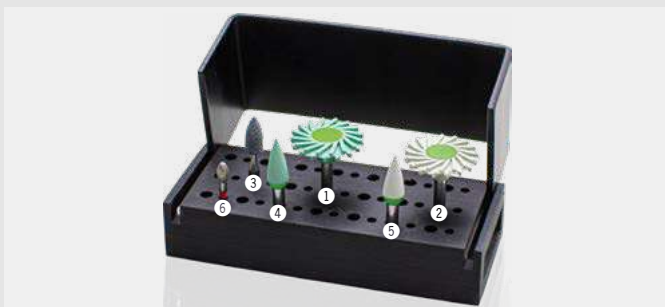
<b>875520 Zolid Green-State Finishing Kit</b> Pack contents: see image		
875521	① Separating cutter for removing from the blank	1 pc.
875523	② Universal polisher for smoothing the surface	5 pcs.
875524	③ Fissure cutter squared for creating fissures	2 pcs.
875526	④ Diamond flame for reworking fissures	5 pcs.
875527	⑤ Diamond parallel for creating labial texture	5 pcs.
875528	⑥ Polishing disc without mandrel for thinning out the crown margin	10 pcs.
875529	⑦ Polisher grenade for grinding of connectors	5 pcs.



### Zolid Sinter-State Polishing Kit - Lab Kit

Zircon oxide-polishing set for the dental technician

<b>875540 Zolid Sinter-State Polishing Kit - Lab Kit</b> Delivery includes: see image		
875541	① High gloss diamond polisher, lens	1 pc.
875542	② Diamond polisher, lens	1 pc.
875543	③ High gloss diamond polisher, lab swivel	2 pcs.
875544	④ Diamond polisher lab swivel	2 pcs.
875545	⑤ Abrasive inverted conical	2 pcs.
875546	⑥ Abrasive conical	2 pcs.



### Zolid Polishing Dent-Kit

Zircon oxide-polishing set for the dentist

<b>875557 Zolid Polishing Dent Kit update</b> Delivery include: see image		
875551	① Smoothing and pre-polishing, swivel	2 pcs.
875552	② High gloss polishing, swivel	2 pcs.
875553	③ Abrasive	2 pcs.
875554	④ Gloss polishing, flame	2 pcs.
875555	⑤ High gloss polishing, flame	2 pcs.
875556	⑥ Diamond	1 pc.



### Zolid Preparation Dent-Kit

Rotary instruments for dentists

<b>875530 Zolid Preparation Dent-Kit</b> Delivery include: see image		
875531	① Diamond Egg Fine	5 pcs.
875532	② Diamond Egg Coarse	5 pcs.
875533	③ Diamond Torpedo Fine	5 pcs.
875534	④ Diamond Torpedo Coarse	5 pcs.
875535	⑤ Diamond Conical Fine	5 pcs.
875536	⑥ Abrasive Arkansas FG	5 pcs.



### All-Bright Diamond Paste

Polishing paste

761938	All-Bright Diamond Paste 11g	1 pc.
--------	------------------------------	-------





### Liquid FX Set

Colouring liquids for Zolid FX White

#### 761400 Liquid FX Set

Content: A2, A3, A3.5, B3, OR, GR, RO, VIO, Ceramill Dimmer Liquid Small, Ceramill Liquid Brush Size 1, Ceramill Liquid Brush Size 3, plastic tweezers, eight paint cans, timer)

Colouring liquids à 100 ml:

761401	Liquid FX A1
761402	Liquid FX A2
761403	Liquid FX A3
761404	Liquid FX A3.5
761405	Liquid FX A4
761406	Liquid FX B1
761407	Liquid FX B2
761408	Liquid FX B3
761409	Liquid FX B4
761410	Liquid FX C1
761411	Liquid FX C2
761412	Liquid FX C3
761413	Liquid FX C4
761414	Liquid FX D2
761415	Liquid FX D3
761416	Liquid FX D4

Effect shades à 100 ml:

761417	Liquid FX OR
761418	Liquid FX GR
761419	Liquid FX RO
761420	Liquid FX GIN
761421	Liquid FX VIO
761422	Liquid FX BL



### Ceramill Liquid "new formula" Set

Colouring liquids for Zolid HT+ White

#### 760469 Ceramill Liquid "new formula" Set

Content: A2, A3, A3.5, B3, OR, GR, RO, VIO, Ceramill Dimmer Liquid Small, Ceramill Liquid Brush Size 1, Ceramill Liquid Brush Size 3, plastic tweezers, eight paint cans, timer)

Colouring liquids à 100 ml

760430	Ceramill Liquid A1
760432	Ceramill Liquid A2
760433	Ceramill Liquid A3
760434	Ceramill Liquid A3.5
760435	Ceramill Liquid A4
760436	Ceramill Liquid B1
760437	Ceramill Liquid B2
760438	Ceramill Liquid B3
760439	Ceramill Liquid B4
760440	Ceramill Liquid C1
760442	Ceramill Liquid C2
760443	Ceramill Liquid C3
760444	Ceramill Liquid C4
760445	Ceramill Liquid D2
760446	Ceramill Liquid D3
760447	Ceramill Liquid D4

Effect shades à 50 ml

760485	Ceramill Liquid RO new formula
760486	Ceramill Liquid GIN new formula
760487	Ceramill Liquid VIO new formula
760488	Ceramill Liquid OR new formula
760489	Ceramill Liquid GR new formula



### Ceramill Liquid CL

Colouring liquids for ZI White

Colouring liquids à 100ml:

760471	Ceramill Liquid CL1
760472	Ceramill Liquid CL2
760473	Ceramill Liquid CL3
760474	Ceramill Liquid CL4

Effect shades à 100ml:

760476	Ceramill Liquid CL OR
760477	Ceramill Liquid CL GR



### Fasthetix Liquid Starter Essential

Staining solutions suitable for the fast staining technique for Zolid FX White, Zolid HT+ White and ZI White

#### 761397 Fasthetix Liquid Starter Essential

Contents: A1, A2, A3, A3.5, B1, B2, C2, D3, Ceramill Dimmer Liquid Small, Ceramill Liquid Eye blue, Ceramill Liquid Brush Size 1, Ceramill Liquid Brush Size 3, plastic forceps, timer



Zirconia Stain

### Accessories Ceramill Liquid

760449	Ceramill Dimmer Liquid Refill (thinner)	1 pc.
760450	Ceramill Liquid staining tin	10 pcs.
760480	Ceramill Liquid Eye complete set	4 x 25ml
760478	Ceramill Liquid Brush Size 1	4 pcs.
760479	Ceramill Liquid Brush Size 3	4 pcs.
761939	Zirconia Stain 3 in 1 Brush Kit (3-part) Brush for applying the Zolid liquids	1 pc.

Contents: Zirconia Stain Brush Size 1 (1 pc.), Zirconia Stain Brush Size 2 (1 pc.), Zirconia Stain Brush Size 3 (1 pc.)

Further information on staining techniques can be found in the "Zolid DNA Staining Technique" Guide at [www.amangirrbach.com](http://www.amangirrbach.com)



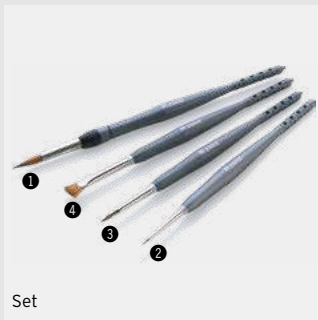


### Ceramill Stain & Glaze Kit

Stains and glaze porcelains for customisation of zirconium oxide

<b>760349 Ceramill Stain &amp; Glaze Kit update, 19 pieces</b>		
760351	Ceramill Stain yellow	4 g
760352	Ceramill Stain orange	4 g
760353	Ceramill Stain blue	4 g
760354	Ceramill Stain grey	4 g
760355	Ceramill Stain white	4 g
760369	Ceramill Stain violett	4 g
760363	Ceramill Stain red	4 g
760364	Ceramill Stain gingiva	4 g
760365	Ceramill Stain brown	4 g
760366	Ceramill Stain eggshell	4 g
760367	Ceramill Stain bleach	4 g
760368	Ceramill Stain dark brown	4 g
760356	Ceramill Stain A	4 g
760357	Ceramill Stain B	4 g
760358	Ceramill Stain C	4 g
760359	Ceramill Stain D	4 g
760360	Ceramill Glaze (glaze porcelain)	4 g
760361	Ceramill Stain & Glaze Working Liquid Liquid for mixing the stain and glaze powders 25 ml	25 ml
760362	Ceramill Stain & Glaze Reflow Liquid Liquid for restoring the initial consistency	8 ml

<b>760038 Ceramill Stain &amp; Glaze Essential Kit, 12 pieces</b>		
760351	Ceramill Stain yellow	4 g
760353	Ceramill Stain blue	4 g
760354	Ceramill Stain grey	4 g
760369	Ceramill Stain violett	4 g
760366	Ceramill Stain eggshell	4 g
760356	Ceramill Stain A	4 g
760357	Ceramill Stain B	4 g
760358	Ceramill Stain C	4 g
760359	Ceramill Stain D	4 g
760361	Ceramill Stain & Glaze Working Liquid Liquid for mixing the stain and glaze powders 25 ml	25 ml
760362	Ceramill Stain & Glaze Reflow Liquid	8 ml



Set



Tip

### Optimum Brush Line - ceramic brushes

Brush with lightweight, ergonomic aluminum handle with innovative spring activation system in the brush tip for the perfect design

761895	Optimum Spring Master Kit, Size 6 (4-part) Content: 761897 Optimum Spring Ceramic Brush, Size 6 (1 pc.); 761899 Optimum Ceramic Brush, Stain (1 pc.); 761900 Optimum Ceramic Brush, Opaque (1 pc.); 761901 Optimum Ceramic Brush, Contour (1 pc.)	1 pc.
761896	Optimum Spring Ceramic Brush, Size 4	1 pc.
761897	① Optimum Spring Ceramic Brush, Size 6	1 pc.
761898	Optimum Spring Ceramic Brush, Size 8	1 pc.
761899	② Optimum Ceramic Brush, Stain	1 pc.
761900	③ Optimum Ceramic Brush, Opaque	1 pc.
761901	④ Optimum Ceramic Brush, Contour	1 pc.
761902	⑤ Optimum Replacement Brush Tip, Size 4	1 pc.
761903	⑥ Optimum Replacement Brush Tip, Size 6	1 pc.
761904	⑦ Optimum Replacement Brush Tip, Size 8	1 pc.
761905	⑧ Optimum Replacement Brush Tip, Contour	1 pc.
761906	⑨ Optimum Replacement Brush Tip, Stain	1 pc.
761907	⑩ Optimum Replacement Brush Tip, Opaque	1 pc.



Set



Tip

### Revolution Brush Line

Brush with lightweight, ergonomic aluminum handle

761911	Revolution Master Kit, Size 6 (4-part)	1 pc.
Content: 761913 Revolution Ceramic Brush, Size 6 (1 pc.); 761915 Revolution Ceramic Brush, Stain (1 pc.); 761916 Revolution Ceramic Brush, Glaze (1 pc.); 761917 Revolution Ceramic Brush, Contour (1 pc.)		
761912	Revolution Ceramic Brush, Size 4	1 pc.
761913	① Revolution Ceramic Brush, Size 6	1 pc.
761914	Revolution Ceramic Brush, Size 8	1 pc.
761915	② Revolution Ceramic Brush, Stain	1 pc.
761916	③ Revolution Ceramic Brush, Glaze	1 pc.
761917	④ Revolution Ceramic Brush, Contour	1 pc.
761918	⑤ Revolution Replacement Brush Tip, Size 4	1 pc.
761919	⑥ Revolution Replacement Brush Tip, Size 6	1 pc.
761920	⑦ Revolution Replacement Brush Tip, Size 8	1 pc.
761921	⑧ Revolution Replacement Brush Tip, Contour	1 pc.
761922	⑨ Revolution Replacement Brush Tip, Stain	1 pc.
761923	⑩ Revolution Replacement Brush Tip, Glaze	1 pc.



### Instrument Bench Stand

For storing brushes

761930	Instrument Bench Stand	1 pc.
--------	------------------------	-------



### CAD Artistry Mixing Palette - ceramic mixing palette

Palette for mixing ceramic materials

761927	CAD Artistry Mixing Palette	1 pc.
761935	Nylon Sheet for CAD Artistry Palette	1 pc.
761940	Absorbent Strips CAD Artistry Palette	2 pcs.



### Peg Fix

Firing paste made of PCW fibers is suitable for firing ceramic and metallic restorations

761928	Peg Fix 12cc Box	3 pcs.
--------	------------------	--------



### Texture Eyes

Copper paste for the visualization of morphology and surface texture

761929	Texture Eyes 10 ml	1 pc.
--------	--------------------	-------



### Crown Holder Complete Kit

Products for safe processing of zirconium oxide

761931	Crown Holder Complete Kit	1 pc.
761932	White Gum Material	1 pc.
761941	Black Gum Material	1 pc.



### Honeycomb Stand and Ceramic Pins

Products for safe processing during the firing process

761934	Honeycomb Stand inkl. 10 Ceramic Pins	1 pc.
761936	Ceramic Pins	10 pcs.
761937	Alumina Pins (ideal for implant work, due to special shape)	4 pcs.



### Ceramomix Zirconia Spatula

Ceramic spatula made of zirconia for optimal and contamination-free mixing of ceramic materials.

761933	Ceramomix Zirconia Spatula	1 pcs.
--------	----------------------------	--------





Ceramill Sintron



Ceramill Sintron

### Ceramill Sintron

CoCr blanks

761101R	○ Ceramill Sintron 71 XXS	h=10 mm	1 pc.
761102R	○ Ceramill Sintron 71 XS	h=12 mm	1 pc.
761103R	○ Ceramill Sintron 71 S	h=14 mm	1 pc.
761104R	○ Ceramill Sintron 71	h=16 mm	1 pc.
761105R	○ Ceramill Sintron 71 M	h=18 mm	1 pc.
761106R	○ Ceramill Sintron 71 L	h=20 mm	1 pc.
761107R	○ Ceramill Sintron 71 XL	h=25 mm	1 pc.

761132	○ Ceramill Sintron 98x10 N	h=10 mm	1 pc.
761130	○ Ceramill Sintron 98x12 N	h=12 mm	1 pc.
761128	○ Ceramill Sintron 98x14 N	h=14 mm	1 pc.
761126	○ Ceramill Sintron 98x16 N	h=16 mm	1 pc.
761124	○ Ceramill Sintron 98x18 N	h=18 mm	1 pc.
761122	○ Ceramill Sintron 98x20 N	h=20 mm	1 pc.
761120	○ Ceramill Sintron 98x25 N	h=25 mm	1 pc.



Mogucera C Disc

### Ceramill CoCr, Mogucera C Disc

CoCr blanks

138110	○ MoguCera C Disc 10 mm	h=10 mm	1 Pc.
138112	○ MoguCera C Disc 12 mm	h=12 mm	1 Pc.
138113	○ MoguCera C Disc 13.5 mm	h=13.5 mm	1 Pc.
138116	○ MoguCera C Disc 16 mm	h= 16 mm	1 Pc.



Ceramill A-Temp



Ceramill A-Temp

### Ceramill A-Temp

Stained PMMA

761330	○ Ceramill A-Temp A1 71x14	h=14 mm	1 pc.	761350	○ Ceramill A-Temp A1 98x14	h=14 mm	1 pc.
761331	○ Ceramill A-Temp A1 71x16	h=16 mm	1 pc.	761351	○ Ceramill A-Temp A1 98x16	h=16 mm	1 pc.
761332	○ Ceramill A-Temp A1 71x20	h=20 mm	1 pc.	761352	○ Ceramill A-Temp A1 98x20	h=20 mm	1 pc.
761333	○ Ceramill A-Temp A2 71x14	h=14 mm	1 pc.	761353	○ Ceramill A-Temp A2 98x14	h=14 mm	1 pc.
761334	○ Ceramill A-Temp A2 71x16	h=16 mm	1 pc.	761354	○ Ceramill A-Temp A2 98x16	h=16 mm	1 pc.
761335	○ Ceramill A-Temp A2 71x20	h=20 mm	1 pc.	761355	○ Ceramill A-Temp A2 98x20	h=20 mm	1 pc.
761336	○ Ceramill A-Temp A3 71x14	h=14 mm	1 pc.	761356	○ Ceramill A-Temp A3 98x14	h=14 mm	1 pc.
761337	○ Ceramill A-Temp A3 71x16	h=16 mm	1 pc.	761357	○ Ceramill A-Temp A3 98x16	h=16 mm	1 pc.
761338	○ Ceramill A-Temp A3 71x20	h=20 mm	1 pc.	761358	○ Ceramill A-Temp A3 98x20	h=20 mm	1 pc.
761339	○ Ceramill A-Temp A3.5 71x14	h=14 mm	1 pc.	761359	○ Ceramill A-Temp A3.5 98x14	h=14 mm	1 pc.
761340	○ Ceramill A-Temp A3.5 71x16	h=16 mm	1 pc.	761360	○ Ceramill A-Temp A3.5 98x16	h=16 mm	1 pc.
761341	○ Ceramill A-Temp A3.5 71x20	h=20 mm	1 pc.	761361	○ Ceramill A-Temp A3.5 98x20	h=20 mm	1 pc.
761342	○ Ceramill A-Temp B2 71x14	h=14 mm	1 pc.	761362	○ Ceramill A-Temp B2 98x14	h=14 mm	1 pc.
761343	○ Ceramill A-Temp B2 71x16	h=16 mm	1 pc.	761363	○ Ceramill A-Temp B2 98x16	h=16 mm	1 pc.
761344	○ Ceramill A-Temp B2 71x20	h=20 mm	1 pc.	761364	○ Ceramill A-Temp B2 98x20	h=20 mm	1 pc.
761345	○ Ceramill A-Temp C2 71x14	h=14 mm	1 pc.	761365	○ Ceramill A-Temp C2 98x14	h=14 mm	1 pc.
761346	○ Ceramill A-Temp C2 71x16	h=16 mm	1 pc.	761366	○ Ceramill A-Temp C2 98x16	h=16 mm	1 pc.
761347	○ Ceramill A-Temp C2 71x20	h=20 mm	1 pc.	761367	○ Ceramill A-Temp C2 98x20	h=20 mm	1 pc.



Ceramil A-Temp Multilayer



Ceramil A-Temp Multilayer

### Ceramil A-Temp Multilayer

Stained PMMA with shade gradient

761040	○	Ceramil A-Temp ML O/A1 71x14	h=14 mm	1 pc.
761041	○	Ceramil A-Temp ML O/A1 71x16	h=16 mm	1 pc.
761042	○	Ceramil A-Temp ML O/A1 71x20	h=20 mm	1 pc.
761043	○	Ceramil A-Temp ML A2/A3 71x14	h=14 mm	1 pc.
761044	○	Ceramil A-Temp ML A2/A3 71x16	h=16 mm	1 pc.
761045	○	Ceramil A-Temp ML A2/A3 71x20	h=20 mm	1 pc.
761046	○	Ceramil A-Temp ML B2/B3 71x14	h=14 mm	1 pc.
761047	○	Ceramil A-Temp ML B2/B3 71x16	h=16 mm	1 pc.
761048	○	Ceramil A-Temp ML B2/B3 71x20	h=20 mm	1 pc.
761049	○	Ceramil A-Temp ML C1/C2 71x14	h=14 mm	1 pc.
761050	○	Ceramil A-Temp ML C1/C2 71x16	h=16 mm	1 pc.
761051	○	Ceramil A-Temp ML C1/C2 71x20	h=20 mm	1 pc.

761055	○	Ceramil A-Temp ML O/A1 98x14	h=14 mm	1 pc.
761056	○	Ceramil A-Temp ML O/A1 98x16	h=16 mm	1 pc.
761057	○	Ceramil A-Temp ML O/A1 98x20	h=20 mm	1 pc.
761058	○	Ceramil A-Temp ML A2/A3 98x14	h=14 mm	1 pc.
761059	○	Ceramil A-Temp ML A2/A3 98x16	h=16 mm	1 pc.
761060	○	Ceramil A-Temp ML A2/A3 98x20	h=20 mm	1 pc.
761061	○	Ceramil A-Temp ML B2/B3 98x14	h=14 mm	1 pc.
761062	○	Ceramil A-Temp ML B2/B3 98x16	h=16 mm	1 pc.
761063	○	Ceramil A-Temp ML B2/B3 98x20	h=20 mm	1 pc.
761064	○	Ceramil A-Temp ML C1/C2 98x14	h=14 mm	1 pc.
761065	○	Ceramil A-Temp ML C1/C2 98x16	h=16 mm	1 pc.
761066	○	Ceramil A-Temp ML C1/C2 98x20	h=20 mm	1 pc.



Ceramil A-Temp



Ceramil A-Temp

### Ceramil A-Temp

Stained PMMA,

Block form AG Mandrell

761370	□	Ceramil A-Temp A1	B40 40 x 19 mm	3 pcs.
761371	□	Ceramil A-Temp A2	B40 40 x 19 mm	3 pcs.
761372	□	Ceramil A-Temp A3	B40 40 x 19 mm	3 pcs.
761373	□	Ceramil A-Temp A3.5	B40 40 x 19 mm	3 pcs.
761374	□	Ceramil A-Temp B2	B40 40 x 19 mm	3 pcs.
761375	□	Ceramil A-Temp C2	B40 40 x 19 mm	3 pcs.
761378	□	Ceramil A-Temp A1	B55 40 x 19 mm	3 pcs.
761379	□	Ceramil A-Temp A2	B55 40 x 19 mm	3 pcs.
761380	□	Ceramil A-Temp A3	B55 40 x 19 mm	3 pcs.
761381	□	Ceramil A-Temp A3.5	B55 40 x 19 mm	3 pcs.
761382	□	Ceramil A-Temp B2	B55 40 x 19 mm	3 pcs.
761383	□	Ceramil A-Temp C2	B55 40 x 19 mm	3 pcs.

Block form universal mandrel for third-party systems

761248	□	Ceramil A-Temp A1	B40 UN 40 x 19 mm	3 pcs.
761249	□	Ceramil A-Temp A2	B40 UN 40 x 19 mm	3 pcs.
761250	□	Ceramil A-Temp A3	B40 UN 40 x 19 mm	3 pcs.
761251	□	Ceramil A-Temp A3.5	B40 UN 40 x 19 mm	3 pcs.
761252	□	Ceramil A-Temp B2	B40 UN 40 x 19 mm	3 pcs.
761253	□	Ceramil A-Temp C2	B40 UN 40 x 19 mm	3 pcs.
761259	□	Ceramil A-Temp A1	B55 UN 55 x 19 mm	3 pcs.
761260	□	Ceramil A-Temp A2	B55 UN 55 x 19 mm	3 pcs.
761261	□	Ceramil A-Temp A3	B55 UN 55 x 19 mm	3 pcs.
761262	□	Ceramil A-Temp A3.5	B55 UN 55 x 19 mm	3 pcs.
761263	□	Ceramil A-Temp B2	B55 UN 55 x 19 mm	3 pcs.
761264	□	Ceramil A-Temp C2	B55 UN 55 x 19 mm	3 pcs.





Ceramill Temp



Ceramill Temp

**Ceramill Temp**  
Stained PMMA

760334	○ Ceramill Temp bleach 71 XS	h=13mm	1 pc.
760320	○ Ceramill Temp light 71 XS	h=13mm	1 pc.
760321	○ Ceramill Temp middle 71 XS	h=13mm	1 pc.
760322	○ Ceramill Temp dark 71 XS	h=13mm	1 pc.
760335	○ Ceramill Temp bleach 71 L	h=20mm	1 pc.
760323	○ Ceramill Temp light 71 L	h=20mm	1 pc.
760324	○ Ceramill Temp middle 71 L	h=20mm	1 pc.
760325	○ Ceramill Temp dark 71 L	h=20mm	1 pc.

760544	○ Ceramill Temp bleach 98x14 N	h=14mm	1 pc.
760538	○ Ceramill Temp light 98x14 N	h=14mm	1 pc.
760539	○ Ceramill Temp middle 98x14 N	h=14mm	1 pc.
760540	○ Ceramill Temp dark 98x14 N	h=14mm	1 pc.
760545	○ Ceramill Temp bleach 98x20 N	h=20mm	1 pc.
760541	○ Ceramill Temp light 98x20 N	h=20mm	1 pc.
760542	○ Ceramill Temp middle 98x20 N	h=20mm	1 pc.
760543	○ Ceramill Temp dark 98x20 N	h=20mm	1 pc.



Ceramill A-Splint



Ceramill A-Splint

**Ceramill A-Splint**  
Splint acrylic, PMMA

761080	○ Ceramill A-Splint 71x14	h=14mm	1 pc.
761081	○ Ceramill A-Splint 71x16	h=16mm	1 pc.
761082	○ Ceramill A-Splint 71x20	h=20mm	1 pc.

761084	○ Ceramill A-Splint 98x14	h=14mm	1 pc.
761085	○ Ceramill A-Splint 98x16	h=16mm	1 pc.
761086	○ Ceramill A-Splint 98x20	h=20mm	1 pc.



Ceramill Splintec



Ceramill Splintec

**Ceramill Splintec**  
Splint acrylic, PMMA

760317	○ Ceramill Splintec 71 XS	h=13mm	1 pc.
760318	○ Ceramill Splintec 71 L	h=20mm	1 pc.

760530	○ Ceramill Splintec 98x14 N	h=14mm	1 pc.
760531	○ Ceramill Splintec 98x20 N	h=20mm	1 pc.



Ceramill A-Cast



Ceramill A-Cast

**Ceramill A-Cast**  
Splint acrylic, PMMA

761070	○ Ceramill A-Cast 71x14	h=14mm	1 pc.
761071	○ Ceramill A-Cast 71x20	h=20mm	1 pc.

761075	○ Ceramill A-Cast 98x14	h=14mm	1 pc.
761076	○ Ceramill A-Cast 98x20	h=20mm	1 pc.



Ceramil Wax grey



Ceramil Wax grey



Ceramil Wax white



Ceramil Wax white

### Ceramil Wax

Wax blank

760307	○ Ceramil Wax grey 71 XS	h=13 mm	1 pc.
760302	○ Ceramil Wax grey 71 L	h=20 mm	1 pc.
760315	○ Ceramil Wax white 71 XS	h=13 mm	1 pc.
760313	○ Ceramil Wax white 71 L	h=20 mm	1 pc.

760524	○ Ceramil Wax grey 98x14 N	h=14 mm	1 pc.
760525	○ Ceramil Wax grey 98x20 N	h=20 mm	1 pc.
760527	○ Ceramil Wax white 98x14 N	h=14 mm	1 pc.
760528	○ Ceramil Wax white 98x20 N	h=20 mm	1 pc.



Ceramil PEEK Natural



Ceramil PEEK Natural



Ceramil PEEK White



Ceramil PEEK White

### Ceramil PEEK

Polyetheretherketone

760405	○ Ceramil PEEK Natural 71x13	h=13 mm	1 pc.
760406	○ Ceramil PEEK Natural 71x20	h=20 mm	1 pc.
760393	○ Ceramil PEEK White 71x13	h=13 mm	1 pc.
760394	○ Ceramil PEEK White 71x20	h=20 mm	1 pc.

760409	○ Ceramil PEEK Natural 98x12	h=12 mm	1 pc.
760410	○ Ceramil PEEK Natural 98x20	h=20 mm	1 pc.
760403	○ Ceramil PEEK White 98x12	h=12 mm	1 pc.
760404	○ Ceramil PEEK White 98x20	h=20 mm	1 pc.



Ceramil M-Plast



Ceramil M-Plast

### Ceramil M-Plast

Model resin

760519	○ Ceramil M-Plast 71	h=30 mm	1 pc.
--------	----------------------	---------	-------

760516	○ Ceramil M-Plast 98x30 N	h=30 mm	1 pc.
--------	---------------------------	---------	-------



Ceramil Test



Ceramil Test

### Ceramil Test

Test blank

760301	○ Ceramil Test 71x20	h=20 mm	1 pc.
--------	----------------------	---------	-------

760300	○ Ceramil Test 98x20	h=20 mm	1 pc.
--------	----------------------	---------	-------





VITA ENAMIC®

#### VITA ENAMIC® for Ceramill

761201	📦 VITA ENAMIC®, EM-14, OM1-T	12x14x18 mm	5 pcs.
761202	📦 VITA ENAMIC®, EM-14, 1M1-T	12x14x18 mm	5 pcs.
761203	📦 VITA ENAMIC®, EM-14, 1M2-T	12x14x18 mm	5 pcs.
761204	📦 VITA ENAMIC®, EM-14, 2M2-T	12x14x18 mm	5 pcs.
761205	📦 VITA ENAMIC®, EM-14, 3M2-T	12x14x18 mm	5 pcs.
761211	📦 VITA ENAMIC®, EM-14, OM1-HT	12x14x18 mm	5 pcs.
761212	📦 VITA ENAMIC®, EM-14, 1M1-HT	12x14x18 mm	5 pcs.
761213	📦 VITA ENAMIC®, EM-14, 1M2-HT	12x14x18 mm	5 pcs.
761214	📦 VITA ENAMIC®, EM-14, 2M2-HT	12x14x18 mm	5 pcs.
761215	📦 VITA ENAMIC®, EM-14, 3M2-HT	12x14x18 mm	5 pcs.



VITA ENAMIC® multiColor

#### VITA ENAMIC® multiColor for Ceramill

761321	📦 VITA ENAMIC® multiColor, EMC-14, 1M1-HT	12x14x18	5 pcs.
761322	📦 VITA ENAMIC® multiColor, EMC-14, 1M2-HT	12x14x18	5 pcs.
761323	📦 VITA ENAMIC® multiColor, EMC-14, 2M2-HT	12x14x18	5 pcs.
761324	📦 VITA ENAMIC® multiColor, EMC-14, 3M2-HT	12x14x18	5 pcs.
761325	📦 VITA ENAMIC® multiColor, EMC-14, 4M2-HT	12x14x18	5 pcs.



VITABLOCS® Mark II

#### VITABLOCS® Mark II for Ceramill

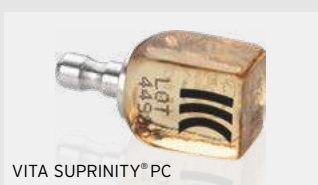
760051	📦 VITABLOCS® Mark II, I12, A1C	10x12x15 mm	5 pcs.
760052	📦 VITABLOCS® Mark II, I12, A2C	10x12x15 mm	5 pcs.
760053	📦 VITABLOCS® Mark II, I12, A3C	10x12x15 mm	5 pcs.
760054	📦 VITABLOCS® Mark II, I12, 1M2C	10x12x15 mm	5 pcs.
760055	📦 VITABLOCS® Mark II, I12, 2M1C	10x12x15 mm	5 pcs.
760056	📦 VITABLOCS® Mark II, I12, 2M2C	10x12x15 mm	5 pcs.
760057	📦 VITABLOCS® Mark II, I12, 3M2C	10x12x15 mm	5 pcs.
760060	📦 VITABLOCS® Mark II, I14, A1C	12x14x18 mm	5 pcs.
760061	📦 VITABLOCS® Mark II, I14, A2C	12x14x18 mm	5 pcs.
760062	📦 VITABLOCS® Mark II, I14, A3C	12x14x18 mm	5 pcs.
760063	📦 VITABLOCS® Mark II, I14, 1M2C	12x14x18 mm	5 pcs.
760064	📦 VITABLOCS® Mark II, I14, 2M1C	12x14x18 mm	5 pcs.
760065	📦 VITABLOCS® Mark II, I14, 2M2C	12x14x18 mm	5 pcs.
760066	📦 VITABLOCS® Mark II, I14, 3M2C	12x14x18 mm	5 pcs.



VITABLOCS® TriLuxe forte

#### VITABLOCS® TriLuxe forte for Ceramill

760070	📦 VITABLOCS® TriLuxe forte, TF12, A1C	10x12x15 mm	5 pcs.
760071	📦 VITABLOCS® TriLuxe forte, TF12, A2C	10x12x15 mm	5 pcs.
760072	📦 VITABLOCS® TriLuxe forte, TF12, A3C	10x12x15 mm	5 pcs.
760080	📦 VITABLOCS® TriLuxe forte, TF14, A1C	12x14x18 mm	5 pcs.
760081	📦 VITABLOCS® TriLuxe forte, TF14, A2C	12x14x18 mm	5 pcs.
760082	📦 VITABLOCS® TriLuxe forte, TF14, A3C	12x14x18 mm	5 pcs.

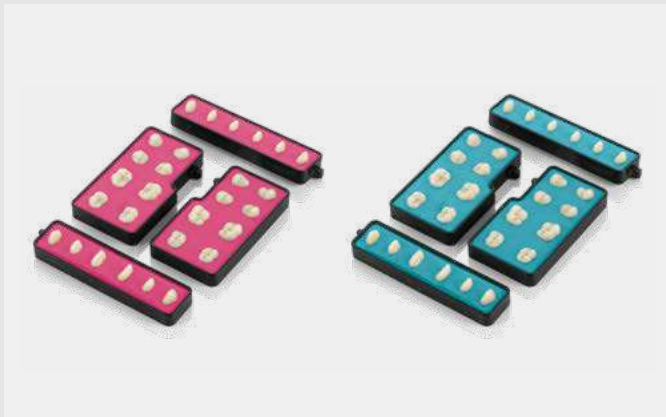


VITA SUPRINITY® PC

#### VITA SUPRINITY® PC for Ceramill

761001	VITA SUPRINITY® PC, PC-14, OM1-T	12x14x18 mm	5 pcs.
761002	VITA SUPRINITY® PC, PC-14, A1-T	12x14x18 mm	5 pcs.
761003	VITA SUPRINITY® PC, PC-14, A2-T	12x14x18 mm	5 pcs.
761004	VITA SUPRINITY® PC, PC-14, A3-T	12x14x18 mm	5 pcs.
761005	VITA SUPRINITY® PC, PC-14, A3.5-T	12x14x18 mm	5 pcs.
761006	VITA SUPRINITY® PC, PC-14, B2-T	12x14x18 mm	5 pcs.
761007	VITA SUPRINITY® PC, PC-14, C2-T	12x14x18 mm	5 pcs.
761008	VITA SUPRINITY® PC, PC-14, D2-T	12x14x18 mm	5 pcs.
761021	VITA SUPRINITY® PC, PC-14, OM1-HT	12x14x18 mm	5 pcs.
761022	VITA SUPRINITY® PC, PC-14, A1-HT	12x14x18 mm	5 pcs.
761023	VITA SUPRINITY® PC, PC-14, A2-HT	12x14x18 mm	5 pcs.
761024	VITA SUPRINITY® PC, PC-14, A3-HT	12x14x18 mm	5 pcs.
761025	VITA SUPRINITY® PC, PC-14, A3.5-HT	12x14x18 mm	5 pcs.
761026	VITA SUPRINITY® PC, PC-14, B2-HT	12x14x18 mm	5 pcs.
761027	VITA SUPRINITY® PC, PC-14, C2-HT	12x14x18 mm	5 pcs.
761028	VITA SUPRINITY® PC, PC-14, D2-HT	12x14x18 mm	5 pcs.





### Ceramill D-Set patented denture tooth blanks

#### VITA - VITA VIONIC® FRAME<sup>1</sup>

VITApán Excell DD Frame A1, A2, A3, A3.5, B3, D3

VITApán Lingoform DD Frame A1, A2, A3, A3.5, B3, D3

#### Merz Dental<sup>1</sup>

Polystar® Selection Edition anteriors A1, A2 light, A3 light, B1, B2

All other classic V-shades and BL1-BL4 available upon request.

DeltaForm® posteriors A1, A2, A3, B1, B2

All other classic V-shades and BL1-BL4 available upon request.

1) to be ordered directly from the manufacturer





### Starter Kit Hardware for Ceramill FDS / VITA VIONIC

<b>760020 Starter Kit Hardware for Ceramill FDS / VITA VIONIC</b>		
179283	Blank holder M2 5X D-Set	1 pc.
760631	Roto 1.0 Red	1 pc.
760633	Roto 3.0 Red	1 pc.
760609	Roto DMB DC 1.0	1 pc.
760608	Roto DMB DC 2.5	1 pc.
760642	Roto 2.5 pink	1 pc.
760643	Roto 1.5 pink	1 pc.
760630	Roto SF1.2 Green	1 pc.
760301	Ceramill Test (20mm)	1 pc.
179977	Spindle cap M2 3.0	1 pc.
179285	Storage bar blank holder	1 pc.



### Labor Starter Kit Hardware BDS for Ceramill

<b>760046 Labor Starter Kit Hardware BDS for Ceramill</b>		
179139	Impression Tray Holder Map400	1 pc.
179134	BD Key Scan Holder	1 pc.
179328	Blank holder M2 Baltic Denture	1 pc.
760642	Roto 2.5 pink	1 pc.
760643	Roto 1.5 pink	1 pc.
760630	Ceramill Roto SF1.2 Green	1 pc.
760301	Ceramill Test (20mm)	1 pc.
179285	Storage bar blank holder	1 pc.

**NextDent Cast**

3D print material for casting / pressing technique

NPAGCAPU01000	NextDent Cast / Purple	1,000g
---------------	------------------------	--------

**NextDent Ortho Rigid**

3D print material for bite splints

NPAGORBL01000	NextDent Ortho Rigid	1,000g
---------------	----------------------	--------

**NextDent C&B MFH**

3D print material for temporary crowns and bridges

NPAGCMN101000	NextDent C&B MFH / N1	1,000g
NPAGCMN1.501000	NextDent C&B MFH / N1.5	1,000g
NPAGCMN201000	NextDent C&B MFH / N2	1,000g
NPAGCMN2.501000	NextDent C&B MFH / N2.5	1,000g
NPAGCMN301000	NextDent C&B MFH / N3	1,000g
NPAGCMBL01000	NextDent C&B MFH / BL	1,000g

**NextDent Ortho SG**

3D print material for drilling templates

NPAGSGOR01000	NextDent SG / Orange	1,000g
---------------	----------------------	--------

**NextDent Gingiva Mask**

3D print material for gingival masks

NPAGMPI01000	NextDent Gingiva Mask	1,000g
--------------	-----------------------	--------

**NextDent Tray**

3D print material for individual trays

NPAGTRBL01000	NextDent Tray / Blue	1,000g
NPAGTRPI01000	NextDent Tray / Pink	1,000g

**NextDent Model 2.0**

3D print material for models

NPAGM2PE01000	NextDent Model 2.0 / Peach	1,000g
NPAGM2WH01000	NextDent Model 2.0 / White	1,000g
NPAGM2GR01000	NextDent Model 2.0 / Grey	1,000g

**NextDent Try-In**

3D print material for try-ins

NPAGTITI001000	NextDent Try-In / T10	1,000g
NPAGTITI101000	NextDent Try-In / T11	1,000g
NPAGTITI201000	NextDent Try-In / T12	1,000g

**NextDent Ortho IBT**

3D print material for orthodontic transfer splints

NPAGOICL01000	NextDent Ortho IBT	1,000g
---------------	--------------------	--------

**NextDent Denture 3D+**

3D print material for prosthetic bases

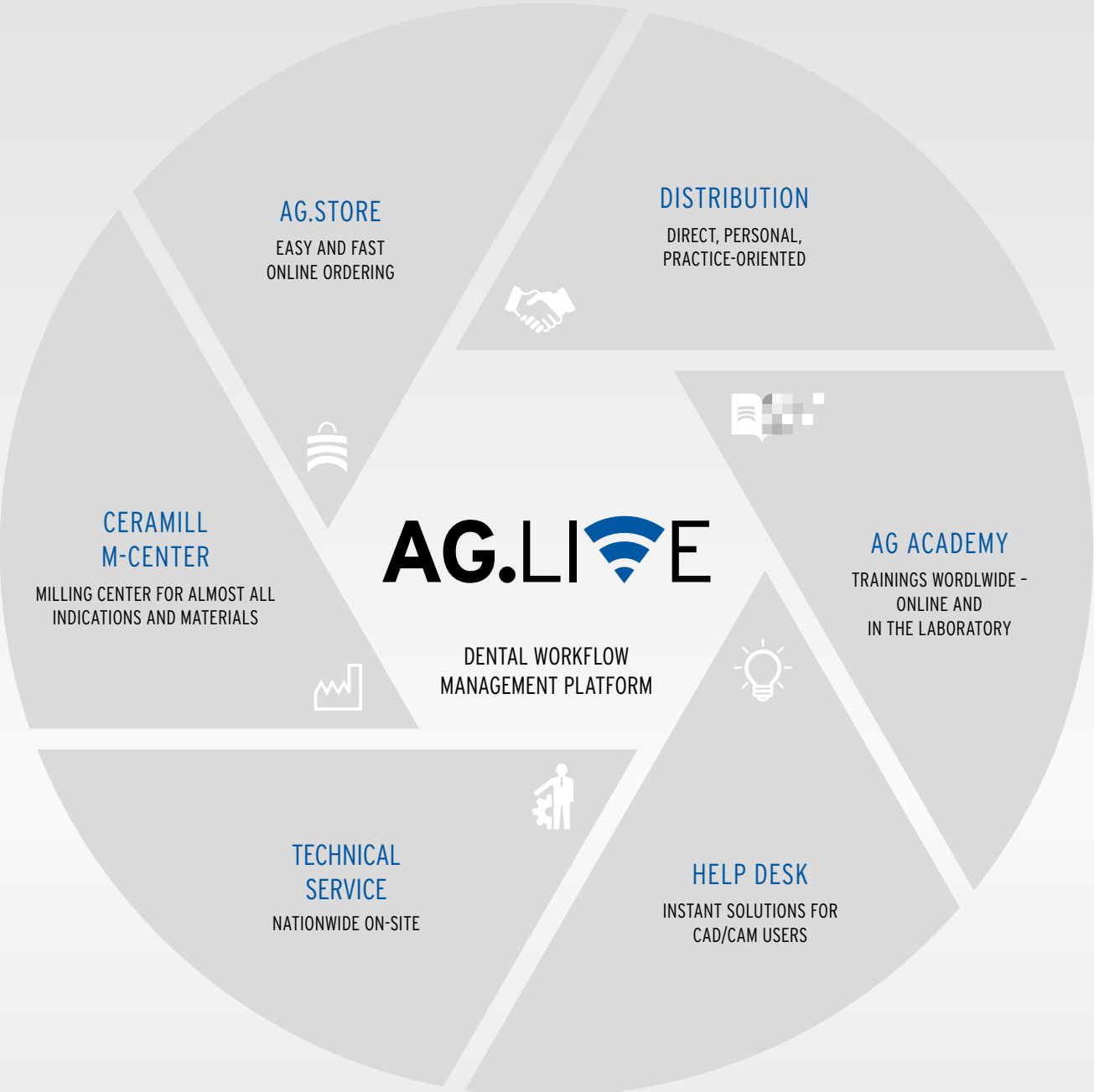
NPAG3DP01000	NextDent Denture 3D+ / Dark Pink	1000g
NPAG3LP01000	NextDent Denture 3D+ / Light Pink	1000g
NPAG3OP01000	NextDent Denture 3D+ / Opaque Pink	1000g
NPAG3TP01000	NextDent Denture 3D+ / Translucent Pink	1000g
NPAG3RD01000	NextDent Denture 3D+ / Red Pink	1000g



# SERVICES



PREMIUM SERVICE - BEFORE, DURING AND AFTER SALES



James Rushton  
Head of Global Service

Dear reader,


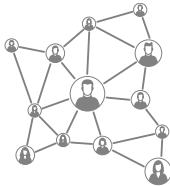


It is a very exciting time in the world of service. The need for exceptional quality in products and service in the dental world has never been higher; nor has Amann Girrbach ever had such an opportunity to deliver on that promise. As we enter the most digitally supported year in our history, we are motivated by the challenge of delighting and exceeding our partner expectations on every service interaction. We are committed to pushing the envelope on what it means to deliver extraordinary service to our dental professionals and thank you for trusting us with your business.



# DENTAL WORKFLOW MANAGEMENT PLATFORM

Amann Girrbach is all about making your dental professional life easier by organizing digital dental workflows. With AG.Live we elevate our promise to a new dimension. Our new digital platform helps you to manage all your digital activities in one place and will connect you to an expanding global network of digital dental professionals. Being part of this network will bring you more business and keeps you ahead of your competition.



			
DIGITAL CASE MANAGEMENT	CONNECTIVITY	CONSUMABLES / LAB INFRASTRUCTURE MANAGEMENT	SUPPORT & KNOWLEDGE DATABASE

Gain full control over your digital workflow in your lab with real time information from order to production and easy file management throughout the patient case—everything from one place.

Expand your digital workflow and range by easily connecting with your customers and partners to drive your business to the next level.

Manage your CAD/CAM consumables digitally and never miss an expiration date again. Keep your CAD/CAM equipment up-to-date and protect your investment.

Stay in tune with the times and keep your Amann Girrbach products working for your success.

You can find more information about the functions and installation of AG.Live at [www.amanngirrbach.com/ag-live](http://www.amanngirrbach.com/ag-live)

WE ARE CLOSE TO YOU.



**AMANN GIRRBACH AG**



- 01 Austria, Koblach | Headquarters**
- > Research & Development
  - > Production
  - > Marketing & Distribution International
  - > International Training Center



- 02 Austria, Rankweil | Dentistry One**
- > Mechanical engineering
  - > Sintron and zirconia production
  - > Technical Service



- 03 Germany, Pforzheim**
- > Warehousing | logistics
  - > Technical service
  - > Training Center for AT & DE
  - > Helpdesk worldwide



- 04 France, Jossigny**
- > Sales office
  - > Training Center for FR
  - > Helpdesk



- 05 Italy, Verona**
- > Sales office
  - > Training Center for IT
  - > Helpdesk



- 06 Lebanon, Beirut**
- > Training Center Middle East
  - > Helpdesk Middle East



- 07 Singapur (since 2011)**
- > Sales office
  - > Training Center Asia
  - > Helpdesk Asia



- 08 China, Peking (since 2013)**
- > Sales office
  - > Warehousing
  - > Training Center
  - > Helpdesk



**EXHIBITIONS & EVENTS**

09 **Japan, Tokyo**  
 > Sales office

10 **USA, Charlotte, NC (since 2007)**  
 > Service Department  
 > Training Center North America  
 > Helpdesk America

11 **Brazil, Curitiba (since 2013)**  
 > Sales office  
 > Warehousing  
 > Training Center

12 **USA, Chicago, IL**  
 > Midwinter Meeting  
 > LMT Lab Day Chicago

13 **Brazil, São Paulo**  
 > CIOSP Congresso Internacional de Odontologia de São Paulo

14 **Germany, Cologne**  
 > IDS - International Dental Show

15 **China, Shanghai**  
 > DenTech - Exhibition

All exhibitions and congresses with current information:



-  **Headquarters**
-  **Production**
-  **Distribution**
-  **Training center**
-  **Helpdesk**

 **Exhibitions & Events**

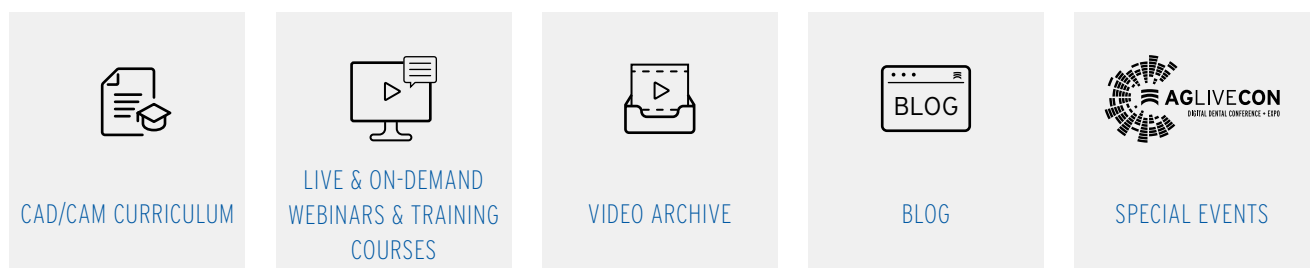
## DIGITAL DENTAL EDUCATION AT ITS BEST.

Ongoing product innovations, frequent training events, and suggestions from our customers and partners led us to establish the AG Academy.

We will gradually expand our range of analog training courses with live and on-demand webinars, videos, and a host of additional specialist content so that we can supplement our product portfolio with a digital knowledge platform. An essential function of the AG Academy will be to close any interdisciplinary gaps using the learning content provided, renowned academic lecturers, trainers, and key opinion leaders from actual practice. In this way, AG Academy safeguards the worldwide availability and consistently high standards that are demanded by the Ceramill community.



### THE SCOPE OF SERVICES OF THE AG ACADEMY AT A GLANCE



**\_Top quality training courses worldwide**

**\_Learn at any time of day, anywhere, and at your own pace**

**\_Extensive, academically-supported CAD/CAM curriculum and training content that showcases the Ceramill process and dental workflows**

**\_Renowned key opinion leaders in the industry, various cooperation partners and universities, as well as long-standing trainers from Amann Girschbach guarantee top-class, certified learning content**

**\_Interdisciplinary full service, across all indications and workflows**

## LEARNING MODULES AND CAD/CAM CURRICULUM

Participants are introduced to the learning content in a coordinated program using various modules and techniques such as video tutorials and interactive training sessions by Amann Girrbach trainers, specialists, and renowned university lecturers. Industry, academic institutions, as well as laboratories and dentists provide sound and validated knowledge with direct practical relevance.



All graduates receive an official certificate after successful participation, including a performance review, which is issued in cooperation with leading universities in the dental field.

### BASIC CURRICULUM:

<b>MODUL</b> <b>AV / MODELL</b> _Modell _Zebris _IOS _Abdruck		<b>MODUL</b> <b>SCAN</b> _Modell _Abdruck _Artiscan _Nachscan _Matching		<b>MODUL</b> <b>DATABASE</b> _Befüllen _Datenimport (Zebris) _Indikationen _AG-Live _Materialien	
<b>MODUL</b> <b>CAD</b> _Workflow _Tools _Expertenmodus _Brücke		<b>MODUL</b> <b>CAM</b> _Nesting _Wartung / Service		<b>MODUL</b> <b>NACHARBEIT/FINISH</b> _Finishing _Sintern/Sinteröfen _Lernzielkontrolle	

## BE PART OF THE AG ACADEMY

The AG Academy will open its doors in May 2021. Participants can register now, however, to receive detailed information and view initial content.

Registration also allows free participation in the AG.Live CON, a digital symposium with live presentations and an interactive trade fair stand that will introduce the innovations from Amann Girrbach for 2021.



Further information on the AG Academy and availability can be found at AG.Live CON

[academy.amanngirrbach.com/en/](https://academy.amanngirrbach.com/en/)





## SYSTEMATIC TRAINING

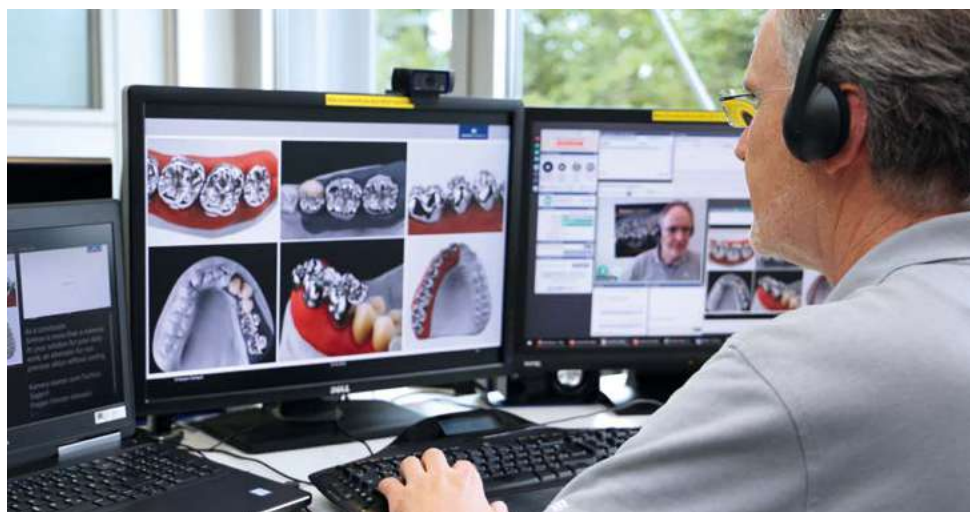
Training in the accustomed Amann Girrbach quality, selected speakers, a wide range of nationwide courses and special in-depth courses. Through a modular training concept that includes both classic face-to-face courses and digital elements, your knowledge will be expanded step by step.

We are also prepared for individual requests. Contact us for an individual (online) training with one of our speakers.


Regardless of whether you are a beginner or an "old hand", the Amann Girrbach training program offers a wide range and the right course opportunity for every situation:

- \_ Course at the training center
- \_ Online training
- \_ Course in the laboratory / in the practice
- \_ Further training at events

We would be pleased to advise you on the right choice of your course. You can also book directly online and see immediately whether the desired course still has places available.



 +49 7231 957-224

 [trainings@amanngirrbach.com](mailto:trainings@amanngirrbach.com)

 [www.amanngirrbach.com/en/services/training/dates](http://www.amanngirrbach.com/en/services/training/dates)

## NATIONWIDE ON-SITE

### CERAMILL HELPDESK. TARGETED AND SUCCESSFUL HELP FOR CAD/CAM USERS

The Ceramill Helpdesk provides information and help from installation to case-related problem solutions. A highly qualified international team of dental technicians are at the ready with a high degree of expert knowledge and competence in solving problems.

By phone or desktop sharing, we are directly in your laboratory and thus offer a high instant solution rate that makes you productive quickly.

Ceramill customers receive full support via the Ceramill Customer Center.



- \_ Contact via telephone or C3 Service Portal - with return call directly from the specialist**
- \_ Practical assistance when ordering**
- \_ Case-related problem solving**
- \_ Answering questions via e-mail and telephone**
- \_ Online support through desktop sharing - we show you the next steps live on your screen**

### TECHNICAL SERVICE. YOUR POINT OF INFORMATION AND ACCEPTANCE FOR REPAIR AND SERVICE ISSUES

Our in-house service comes into play for small devices or in "tricky cases". They are also all ears for service inquiries about Amann Girrbach devices and systems.

Rental devices are available on request during the repair period in order to keep up the production process at all times.

During the repair period of Ceramill milling units you will receive discounted conditions at the Ceramill M-Center.



## THE PRODUCTION CENTER FOR ALMOST ALL INDICATIONS AND MATERIALS: EXPERT, PRECISE, AND FAST

The M-Center of Amann Girrbach considers itself to be a reliable partner for laboratories and provides an optimal supplement to the fabrication of dental products.

Decide for yourself whether to opt for being simply a scanner customer or a complete system customer, for example, with increased incoming orders or machine downtime.

By means of an optimally coordinated system of precise fabrication systems and exclusive material portfolio, we guarantee dental restorations of the highest quality.

Experienced and specifically trained CAD/CAM dental technicians ensure products with consistently high quality that is safeguarded by quality testing conducted in parallel with production.



- \_Wide range of indications and materials**
- \_Optimally coordinated system made by Amann Girrbach**
- \_Lucrative discount scale system (discounts starting from just 11 units)**
- \_Production times within 24 hours**
- \_Express delivery by 12:00 p.m. on the following day**
- \_Excellent service provided by specially trained CAD/CAM dental technicians**
- \_Security: 5 year warranty**

**NEW**

**AG.LIVE**  
PORTAL

### UPLOAD DATA QUICK AND EASY AT AG.LIVE:

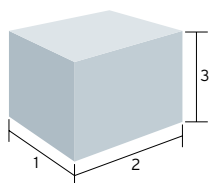
Workflow for Ceramill users: The data are transferred via the workflow of the CAD software Ceramill Mind to AG.Live and from there to the Ceramill M-Center.

### WORKFLOW FOR USERS OF OTHER SYSTEMS:

After completing registration in AG.Live, the Ceramill M-Center can be selected as a production partner. The patient case is then created. After entering the production data in STL format, the data can be uploaded to the Ceramill M-Center.

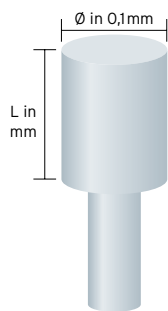
In both cases the order is confirmed with an e-mail notification.

# GENERAL INFORMATION



IN THIS CATALOGUE, THE PRODUCT INFORMATION IS RESTRICTED TO SOME ELEMENTARY FEATURES AND APPLICATIONS.

You will find more information in the according system brochures and/or leaflets.



## Technical data

In general, all dimensions are indicated in millimeters (mm) lined up in depth/length x width x height:

1. depth
2. width
3. height

If this is not the case, the differing indications are clearly defined (e.g. diameter =  $\emptyset$ , drilling, thickness, etc.)

## Delivery volume

Introductory kits of systems or basic equipment for units are presented, on one hand, as complete set and, on the other hand, as single articles with different article numbers for repeat orders.

## Replacement parts

...will be mentioned only in cases where there is high customer demand. All replacement parts are listed with article number in the unit's manual.

**Changes, in the sense of better function, performance, service life and technical improvements are subject to alterations.**

## Terms and Condition

Please find our Terms and Conditions at

[www.amangirrbach.com](http://www.amangirrbach.com)



AMANNGIRRBACH

**AUSTRIA (HEADQUARTERS)**

Amann Girschbach AG  
Koblach, Austria  
Fon +43 5523 62333-105  
austria@amanngirschbach.com

**GERMANY**

Amann Girschbach GmbH  
Pforzheim, Germany  
Fon +49 7231 957-100  
germany@amanngirschbach.com

**ITALY**

Amann Girschbach Italia srl  
Verona, Italy  
Fon +39 045 9813970  
europe@amanngirschbach.com

**FRANCE**

Amann Girschbach France SAS  
Jossigny, France  
Fon +43 5523 62333-105  
europe@amanngirschbach.com

**NORTH AMERICA**

Amann Girschbach North America, LP  
Charlotte, NC, U.S.A.  
Fon +1 704 837 1404  
america@amanngirschbach.com

**BRAZIL**

Amann Girschbach Brasil LTDA  
Curitiba, Brazil  
Fon +55 41 3287 0897  
brazil@amanngirschbach.com

**ASIA**

Amann Girschbach Asia PTE LTD.  
Singapore, Asia  
Fon +65 6592 5190  
singapore@amanngirschbach.com

**CHINA**

Amann Girschbach China Co., Ltd.  
Beijing, China  
Fon +86 10 8886 6064  
china@amanngirschbach.com