


2013/2014

DIGITAL LAB EQUIPMENT

**AMANNGIRRBACH** **ceramill map** **ceramill mind** **ceramill motion 2** **ceramill artex®** **ceramill sintron®** **ceramill zolid**

Inhouse. Now is the time!



CERAMILL

YOUR + points

- _Redeems expenditure in record time thanks to the massive savings achieved per unit
- _Full value creation in-house in the laboratory - also for CAD/CAM-based non-precious metal
- _Efficient and easily controllable workflow (Ceramill Mind Workflow)
- _System matched throughout the entire fabrication process
- _System concept for hardware and software components safeguarded in the future
- _Open for external data (stl) from third-party systems (scanner, intraoral etc.)
- _DFP - The CAD/CAM based method for interference-free prosthetic restorations

CERAMILL AND DFP

The method which leads to success

DFP "Digital Functional Prosthetics" describes the end product in the Ceramill fabrication chain - the functional, interference-free prosthetic restoration fabricated digitally in the laboratory.

The Ceramill Artex® - the virtual Artex® CR articulator - enables highly precise occlusal surfaces to be designed also using digital techniques. The right method - easily learned in every laboratory.

- _Protects residual dentition
- _Avoids chipping and guarantee cases
- _Retains the aesthetic and functional parameters



For more information about DFP, please refer to our new brochure "Digital, but without loss of function." (at: www.amanngirrbach.com or download directly onto smartphone, tablet or PC)



Ceramill puts the creative work back into your laboratory.



CAD-CAM production in your laboratory has never been so easy and profitable.

Functional precision chain.

PRECISION MODEL

PRECISION



artex®cr

Model management articulator and masticatory loading simulator for the dental practice and laboratory

- _Provides all functions for analysing the free spaces and excursion patterns
- _Variable sideshift function for transversal clearance, adjustable



giroform®

Precise, low-priced and quick for cost-optimised precision models

- _Overcomes expansion of dental stone due to segmentation of the dental arch
- _Model made in just six minutes
- _Perfect "basis" (precision model) for digitisation



ceramill transferkit

Loss-free transfer of patient data into the Ceramill Map 400

- _Digitisation of the model situation in Splitex precision
- _Reliable, quick and uncomplicated handling

DATA TRANSFER

DESIGN (CAD) VIRTUAL OCCLUSION



ceramill map400

ceramill mind

ceramill artex®

The "function scanner" - precise, quick and with Splitex® integration

- _Large measuring field also scans models in intermaxillary relationship
- _ "ISS" (Intelligent Scan Strategy) for even quicker scan times
- _ Ceramill MultiCap - multiple holder for scanning up to 12 dies simultaneously

The brain of the system: The construction software

- _Economizing time through intuitive dental technical workflow
- _Large functional scope
- _Comprehensive indication range

The function interface between manual and digital dental technology

- _Virtual Artex CR® with unlimited range of functions
- _Dynamic occlusal contouring avoids high spots
- _Space is automatically planned for the veneering porcelain during the design

PRODUCTION (CAM)



ceramill motion 2

Wet and dry machining in a compact unit

- _ Wet/dry milling/grinding - Material-appropriate machining for all types of material
- _ Unlimited range of indications, also upgradable for future indications
- _ 5-AXIS-Simultaneous Technology - future proof and affordable





MATERIAL OVERVIEW

ceramill material

In-house material range



Material:	The most important features at a glance:	The most important indications:	
Ceramill Sintron® (CoCr sinter metal)	<ul style="list-style-type: none"> _ Dry millable CoCr blanks due to the wax-like texture _ Processing analogous to Ceramill Zi _ Can be veneered with any standard non-precious bonding porcelain _ Homogeneous, distortion-free frameworks without contraction cavities 	<ul style="list-style-type: none"> _ Single crowns _ Bridges* up to 4-unit _ Telescope crowns _ Custom abutments on titanium bases _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill ZOLID (Monolithic zircon oxide)	<ul style="list-style-type: none"> _ High translucency _ Flexural strength similar to Ceramill Zi _ Sinter temperature analogous to Ceramill Zi 	<ul style="list-style-type: none"> _ Fully anatomical crowns and bridges as aesthetic alternative to full cast crowns and as reasonably priced alternative to veneered zirconia restorations _ Anatomically reduced and veneered crowns and bridges have better optical translucency _ Anatomically reduced and veneered crowns and bridges _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill Zi (Zirconium oxide)	<ul style="list-style-type: none"> _ High strength, rigidity, and biocompatibility _ On request tooth coloured framework by staining _ Conventional and adhesive fixation 	<ul style="list-style-type: none"> _ Crowns and bridges in the anterior and posterior region _ Telescope and conical crowns _ Abutments and attachments 	
VITABLOCS Mark II / Triluxe forte for Ceramill Motion 2	<ul style="list-style-type: none"> _ No crystallisation firing required _ Shade characterisation and customisation possible _ Excellent antagonist-friendly abrasion properties _ Very good polishability _ Mark II available in seven different tooth shades and Triluxe forte available in three 	<ul style="list-style-type: none"> _ Inlay / onlay _ Veneer _ Partial crown _ AC-Anterior crown _ PC-Posterior crown 	



Material:	The most important features at a glance:	The most important indications:	
Ceramill TEMP (dyed PMMA) 	<ul style="list-style-type: none"> _ Suitable for long-term temporary restorations, period of use: 6 months _ Coloured resin available in 3 different dentine shades _ Can be veneered with conventional crown and bridge composites _ Easy, quick high-lustre polish _ Luting: can be luted using all commercially available temporary luting materials 	<ul style="list-style-type: none"> _ Crowns and bridges up to 14 units (max. 2 intermediate elements) _ Custom abutments on titanium bases _ Suitable for veneer bonding _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill PMMA (Acrylic which burns out without residue) 	<ul style="list-style-type: none"> _ For checking the fit and function intraorally _ Perfect casting results and ceramic overpressing/veneering _ Suitable for CAD/CAM and conventional techniques (casting technique, press and overpress technique) 	<ul style="list-style-type: none"> _ Crowns and bridges up to a maximum of 14 units _ Frameworks for intraoral try-in _ Frameworks for the casting and overpress technique 	
Lithium disilicate (e-max) (Via Ceramill Motion 2 or Ceramill M-Center) 	<ul style="list-style-type: none"> _ High aesthetics _ Industrially prefabricated material _ Quick, easy crystallisation process _ Conventional and adhesive luting 	<ul style="list-style-type: none"> _ Inlay / onlay _ Veneer _ Partial crown _ Anterior and posterior crowns 	
Ceramill WAX (Milling wax - burned out without residue) 	<ul style="list-style-type: none"> _ Easily millable _ Grey _ Non-smearing _ Burns out without residue _ For the casting technique, press and overpress technique 	<ul style="list-style-type: none"> _ Bridges up to 14 units can be fabricated _ Custom abutments on titanium bases _ Multi-unit, screw-retained restorations on titanium bases 	

ceramill material

Manufacturing centre material range

Ceramill M-Center materials:	The most important features at a glance:	The most important indications:	
Ceramill NP L units CoCr - laser sintered 	<ul style="list-style-type: none"> _ High strength, rigidity _ Complex frameworks possible _ Beryllium and nickel-free _ For veneering with conventional metal bonding porcelains _ Frameworks supplied almost ready for veneering _ Finer grains than with cast alloys _ Easy preparation 	<ul style="list-style-type: none"> _ Crowns and bridges in the anterior and posterior region _ Telescope and conical crowns _ Approved as a framework for veneering up to 7 units 	
Ceramill NP M units CoCr - milled 	<ul style="list-style-type: none"> _ High strength, rigidity _ Complex frameworks possible _ Beryllium and nickel-free _ High corrosion resistance _ High temperature stability _ Low hardness, easy finishing _ Veneering with conventional bonding porcelain; frameworks supplied almost ready for veneering 	<ul style="list-style-type: none"> _ Crowns and bridges in the anterior and posterior region _ Telescope and conical crowns _ Frameworks for veneering or fully anatomical _ Custom abutments on titanium bases _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill TI alloy units TiAlNb 	<ul style="list-style-type: none"> _ High strength, rigidity and biocompatibility _ Homogenous structure _ Can be veneered with all conventional porcelains for titanium bonding alloys _ Low density - minimal weight of restorations _ Low thermal conductivity _ Frameworks supplied almost ready for veneering 	<ul style="list-style-type: none"> _ Crowns and bridges in the anterior and posterior region _ Telescope and conical crowns _ Custom abutments on titanium bases _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill TI units Grade 2 	<ul style="list-style-type: none"> _ High biocompatibility _ Homogenous structure _ Can be veneered with all conventional porcelains for titanium bonding alloys _ Low density - minimal weight of frameworks _ Low thermal conductivity _ Frameworks supplied almost ready for veneering 	<ul style="list-style-type: none"> _ Crowns and bridges in the anterior and posterior region _ Telescope and conical crowns _ Individual abutments on titanium bases _ Multi-unit, screw-retained restorations on titanium bases 	
Ceramill COMP units Composite 	<ul style="list-style-type: none"> _ Can be fitted as a permanent restoration _ Very low susceptibility to abrasion - very close to the natural enamel _ Coloured composite available in three different dentine shades _ Can be veneered or stained using conventional, light-curing crown and bridge resins 	<ul style="list-style-type: none"> _ Inlays / onlays _ Veneers _ Crowns and bridges (max. 3-unit) 	

PRECISION MODEL



Model management articulator and universal diagnosis and therapy unit in Arcon design

Produced by the dental technician in an articulator, a dental prosthesis must function without a problem for the patient. An articulator is a great way to emulate the patient's movements, saving the dentist chair-side time and the patient quite a bit of pain.

The reproducible centric relation ensures safe starting and end positions of every jaw movement. The Artex® articulator can discover, check and remove any defects smaller than 20 µm.

Lightweight, stable, ergonomic and very precise - the Artex® articulator facilitates and accelerates work on the model. It is practice-oriented, reliable and competitively priced. For these reasons, the Artex® brand enjoys such a good reputation and its articulators are among the most popular world-wide. The Artex® product range employs a modular design and is focused on features that are really necessary.



- _ Provides comprehensive adjustment possibilities to reproduce the patient's clearance and movement dynamics
- _ True masticatory simulator for practice and laboratory
- _ 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
 - > Artex®-Carbon - lightweight and robust, providing perfect handling, also combining all the Artex® CP advantages
 - > Adjustable inclination of the condyle track inclination from -20° to +60°
 - > Bennett angle adjustable from -5° to +30°



Our entire Artex range can be found in the "Lab Equipment Classics" catalogue





Perfect operation, highly precise and economical

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.



- _Fast and easy to use
- _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
- _Semi-automatic drilling at the press of a button (0.5 seconds per hole)
- _Automatic drill advance guarantees identical boreholes in the plates
- _Robust device providing many years of reliability



Our entire Giroform range can be found in the "Lab Equipment Classics" catalogue



Strong, practical and aesthetic - stainless steel housing



Laser beam for easy drill positioning



Plate holder is secured magnetically and automatically when drilling starts



PRECISION TRANSFER

ceramill transferkit

1:1 Transfer of patient data into the Ceramill Map400

1:1 transfer of the model situation from the “real articulator” into the scanner is absolutely essential to utilise the functionality of the virtual articulator. The Ceramill system enables correct transfer using the Ceramill Transfer kit – a combination of transfer stand (Ceramill Fixator) and model holder on a Splitex® base, which is used for holding the scan model in the scanner. The Ceramill Fixator enables transfer of the model in the scanner while retaining the axis relation of the “real articulator”. As the Ceramill Fixator is specially dimensioned for the Ceramill Map400 scanner with integrated Splitex® holder, it guarantees maximum precision when digitising the model situation.



- _ Transferring the articulated situation in Ceramill Fixator without loss of precision
- _ Maximum precision due to patient analogous working
- _ Scanning in Splitex precision with exact patient data



QR-Code

For more information about DFP, please refer to our new brochure “Digital, but without loss of function.” (at: www.amannbirnbach.com or download directly onto smartphone, tablet or PC)



Articulated models in the Ceramill Fixator and Artex® CR. The models were synchronised using the Splitex® key



Ceramill Fixator with articulated model in the Ceramill Map400 (Symbol illustration of the Ceramill Fixator)



Ceramill Map400 with model in the Ceramill Fixator – for lossless transfer of the model situation

ceramill map400



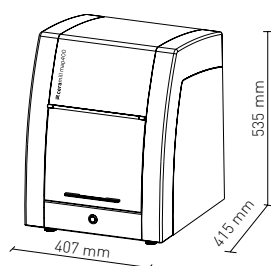
The “functional scanner” - precise, quick and with Splitex® integration

The Ceramill Map400 stands for a high degree of operating comfort and high-resolution scan data, which are created using strip light projection. Highly sensitive 3D sensors provide a precise image of the model. A particularly large measuring field enables quick, efficient scanning of dental stone models using only 2 axes, which greatly reduces the scan times. This type of scanner also easily records articulated models in an occlusal relationship - a prerequisite if a “virtual articulator” is used in the design software for an automatic, fully anatomical framework design.

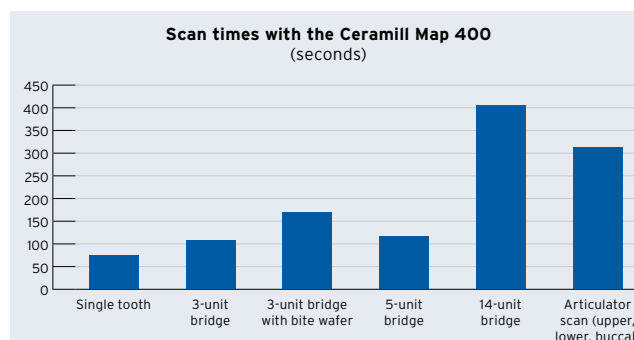
The Ceramill Map400 has an open interface, so that scans (STL files) can also be loaded in other CAD programmes.



- _ Fully automatic, compact strip light scanner
- _ Articulated models can be scanned in relation to the articulator, then downloaded into the CAD software in the Ceramill Artex® CR for the automatic fabrication of fully anatomical frameworks
- _ Bite registration, situation model, gingiva and wax-up-scan possible for optimal framework fabrication
- _ Automatic user navigation through the scan programme ensures an easy, high degree of operating comfort
- _ The scanner comes with an open interface, scans (stl-files) can also be downloaded into other CAD software
- _ Large measuring field provides high precision and quick scan times



Measurement range guide for recording the measuring field



Scan times according to indication

ceramill map400

Speed and precision in harmony

ISS (Intelligent Scan Strategy) is a scan mode for a shortened scan process due to reduced manual intervention during scanning.

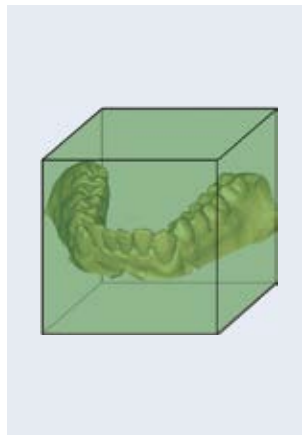
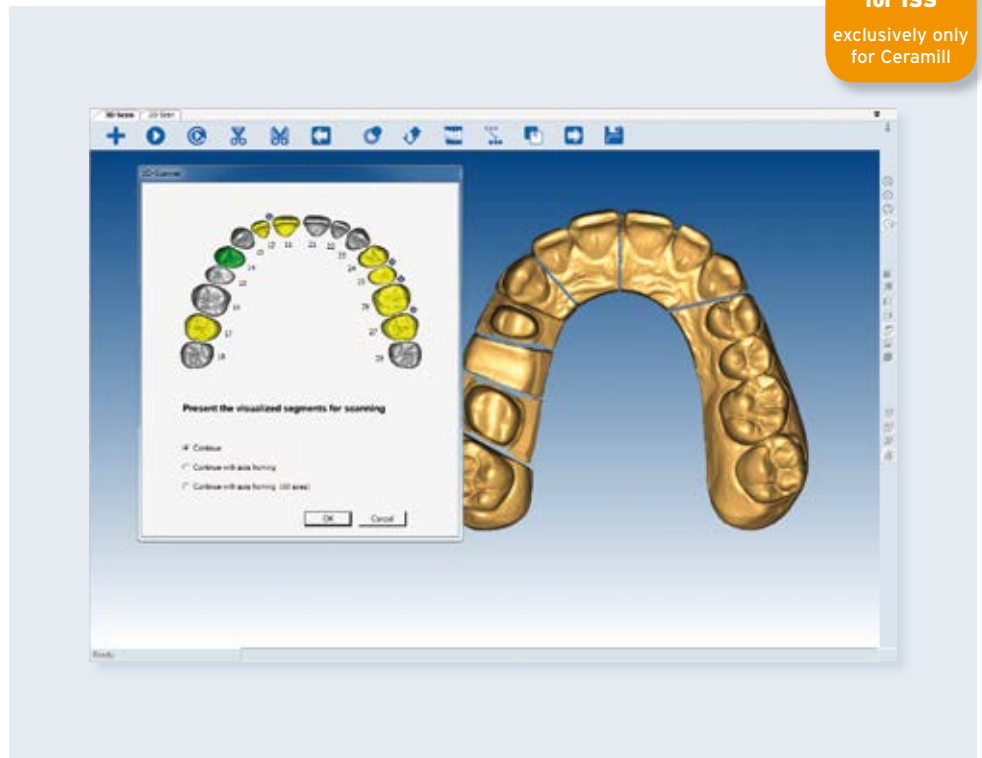
In the ISS mode the directly adjacent (jaw) segment of every second tooth is removed from the model of the jaw. The gap created provides sufficient free space for scanning the proximal regions.

Example: in the case of a model with 16 segmented teeth up to 8 teeth are scanned in one scanning cycle without manual intervention. This reduces manual intervention to 2 working stages.



**Segment-
definition
for ISS**

exclusively only
for Ceramill



A particularly large measuring field enables quick, precise scanning of the entire model.





ceramill multicap

Ceramill MultiCap is a scan mode, which with the aid of a special multiple holder simultaneously scans individual dies independent of the jaw or patient. This allows rapid digitisation of dies, which are intended for offset crowns and which do not require any relationship to adjacent teeth or opposing dentition.

Placing the dies in the multiple holder allows up to 12 dies to be scanned in one scanning cycle without manual intervention.



DESIGN CAD

 ceramill mind	D 20
 ceramill artex®	D 21
 ceramill m-plant	D 23

The intelligent design software - developed according to the principles of dental technology

The Ceramill CAD software was created in close collaboration with dental technicians and dental engineers. The special user navigation, which was adapted to the workflow of the dental laboratory, ensures smooth operation from the outset - without a long period of adjustment or learning.

The functions are also ideal: Precise recognition of the prepared margin, automatic bridge and connector design, tooth library compilation and the open system structure are just some of the highlights.



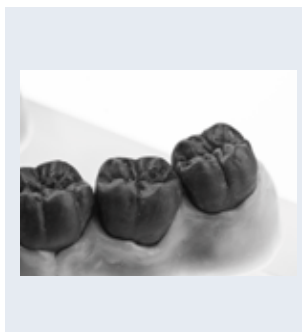
Ceramill Mind is available in the following languages:



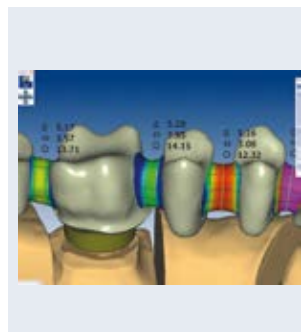
- _ Large range of indications (fully anatomical and anatomically reduced crowns and bridges, inlays / onlays, reducing wax-ups, overpressing, telescope crowns, virtual articulator, custom abutments)
- _ Different library teeth are available, e.g. from Knut Miller and VITA
- _ TruSmile mode enables aesthetic visualisation of the designed restoration before production
- _ Automatic defining of the preparation margins
- _ Intuitive dental technical work-flow for comfortable and reliable use
- _ The virtual articulator simulates the mandibular excursions and automatically constructs a full anatomical framework proposal, according to the dynamic occlusion, therefore reducing the necessity to grind the surfaces after milling
- _ The order button integrated in the programme makes sending the construction data simple
- _ Open for every type of construction data (File type: stl), increases flexibility

COURSES CAD/CAM

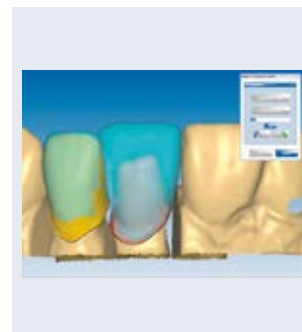
Please also note our course offers on this subject on Page 65



Ceramill library teeth from Knut Miller are specially tailored to the requirements of CAD design



Automatic display of the connector dimensions



Automatic adaptation of the library teeth to the teeth of the scanned diagnostic model



Virtual Artex® CR as Upgrade for Ceramill Map400 and Ceramill Mind. 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 Map400-scanner while holding the same Artex mode by means of the Ceramill transferkit; it is subsequently scanned-in in the appropriate proportion.

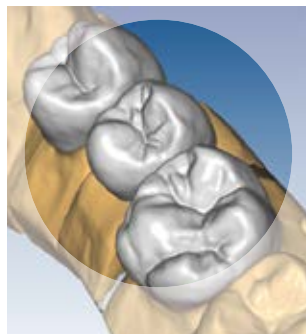
The movement options of the Artex® CR are thus synchronised digitally and manually. Interfering structures can already be removed, reducing time-consuming grinding in at the chairside to a minimum.



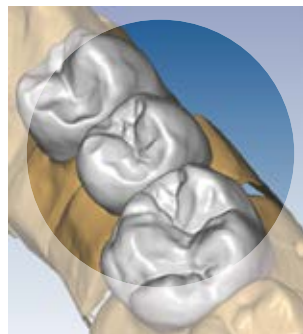
- _ Fully visualised Artex® CR for a quick introduction to the digital world
- _ The virtual articulator offers the same functional scope as compared to the real Artex® CR (Adjustment modes of the horizontal inclination of condylar guidance (Bennett Angle; Retrusion; Immediate Side Shift)
- _ The transfer 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 porcelain built-up is automatically foreseen during the construction - thus an optimal framework basis is established for veneers with high stability and a consistent layer thickness.

VIDEO

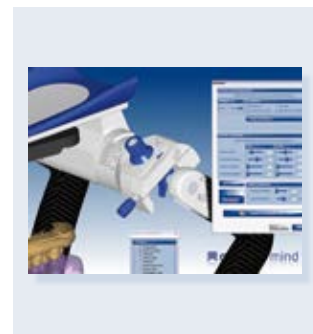
Demonstration video at
www.amanngirrbach.com



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)



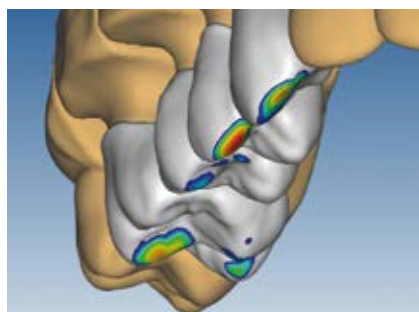
A) Artex®CR condyle in centric position viewed from below



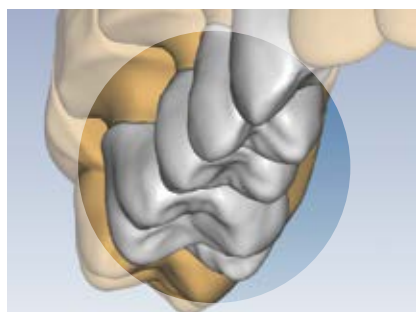
B) Virtual Artex®CR condyle in centric position as starting point for each excursion



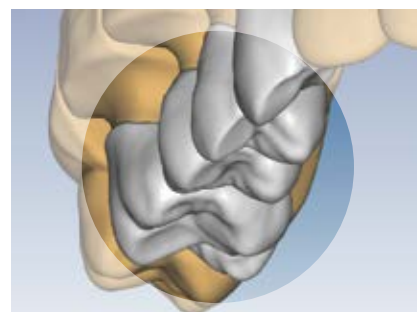
C) Artex®CR condyle in (animated in real time) lateral excursion



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®



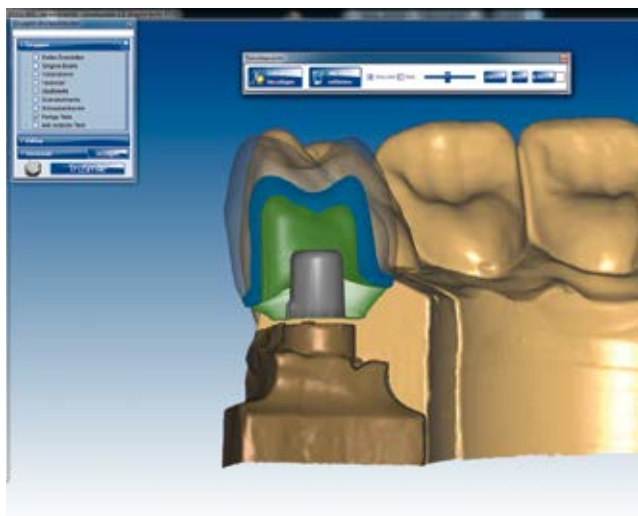
ceramill m-plant

Abutment module for Ceramill Mind

Producing customised abutments and screw-retained bridges digitally with the Ceramill System

Ceramill M-Plant is an upgrade module for the Ceramill Mind design software and expands its functions to design customised hybrid abutments and customised screw-retained bridges on conical titanium bases fabricated using zirconia, translucent zirconia, CoCr sinter metal, PMMA (stained), wax, titanium and milled CoCr. Durable, stable fit of the design in the implant is guaranteed by adhesive bonding the titanium bases with the custom abutments or SR adhesive copings with the bridges.

ceramill ti-connect



ceramill ti-connect sr



- _ Design of all the required components for implant prosthetics in the software in a single stage: abutment, anatomical framework, if necessary wax framework for the overpress technique
- _ All from a single source - software and titanium bases are perfectly coordinated, ensuring high process reliability
- _ Emergence profile is individually adapted to the gingiva
- _ Continually increasing titanium base library

Overview of the implant systems and components see Page B 54



Further information about Ceramill M-Plant can be found in our brochure

COURSE

Webinar available:
Information can be found
on our website
www.amanngirrbach.com

INFO

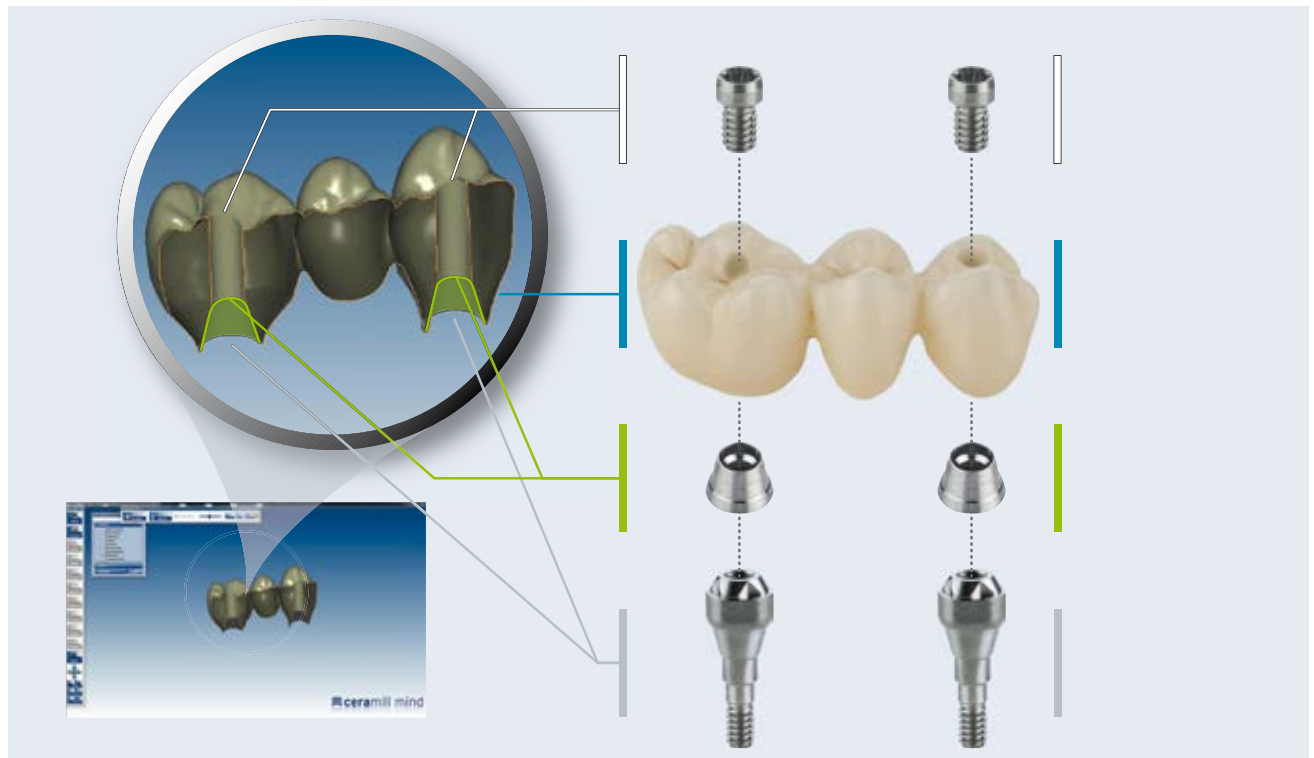
Detailed step-by-step instruction with information on adhesive bonding can be found on our website
www.ceramill-m-center.com
(only for registered customers)

INFO

Comprehensive video tutorial with narrator on
www.ceramill-m-center.com
(only for registered customers)

ceramill ti-connect sr

Conical SR titanium bases and SR adhesive copings for multi-unit, screw-retained restorations



- _ SR titanium bases with conical SR adhesive copings for fabricating screw-retained bridges and bar elements on implants
- _ Can be fabricated using the Ceramill Motion 2 (5-axis) or in the Ceramill M-Center
- _ The SR adhesive coping and SR screw are used to guarantee a screw fit in metal
- _ The conical shape of the SR adhesive coping and SR titanium base enables restorations to be fabricated on divergent implants
- _ The SR titanium bases are available in 3 different gingival heights to allow optimal adaptation to the vertical implant position and emergence profile
- _ The SR adhesive copings are available in 2 different heights to provide optimal support for the restoration



ceramill ti-connect sr

A finished custom abutment bridge in 4 steps

1 Model preparation



Model with removable gingival mask and integrated laboratory analogue.

The SR titanium base is screw retained on the implant with the aid of the SR insertion instrument (2 part).

2 Scanning



The model is digitised in the usual way with the Map300 and Map400. First the gingival mask is scanned. The jaw is then scanned. Finally the SR scan body is scanned.



Note:
Implant-supported, occlusally screw-retained bridges are only possible with SR titanium bases and can only be milled using the Ceramill Motion 2.

3 Designing



Selection of the type of implant for the respective tooth position given. Selection of the height of the SR adhesive coping.

Example:

- Amann Girrbach Range Ten
(= Dentsply Friadent, Frialit/Xive)
- SR | Kit c | 4.5mm

4 Adhesive retention



Prepare the design in the usual way.

The individual design stages are shown in the video tutorial on the homepage www.ceramill-m-center.com



Place the finished design in the blank.

Positioning and calculation of the design in the blank is completed in the usual way.



Checking the fit



Adhesive bonding the restoration with the SR adhesive copings on the model.

The individual steps for adhesive bonding can be found in the step-by-step instructions on our homepage www.ceramill-m-center.com

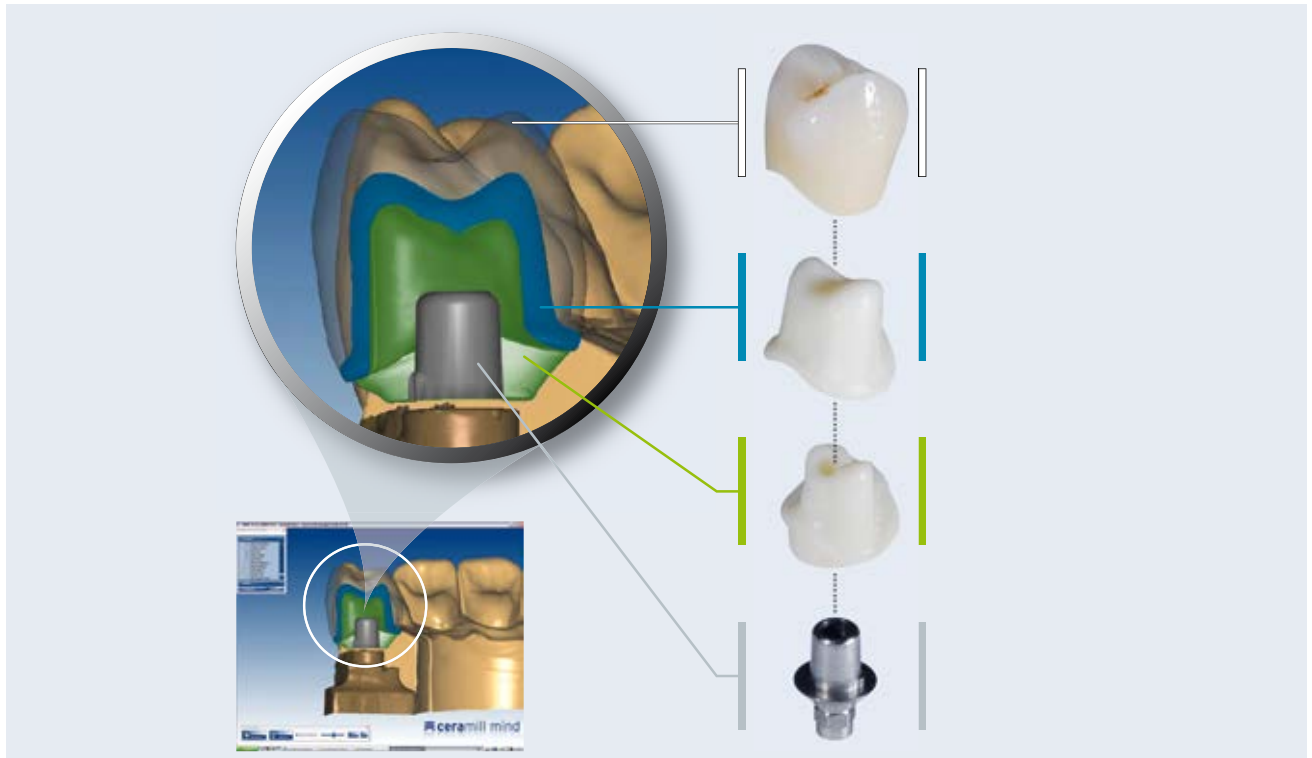
Recommendation: Adhesive bonding should be completed intraorally by the treating dentist.



Finished restoration

ceramill ti-connect

Titanium bases for custom single abutments



- _ The hybrid technique (adhesive bonding) ensures reliable, durable fit of the abutment on the implant
- _ The custom abutments can be fabricated via the Ceramill Motion or Ceramill M-Center
- _ The design can be started immediately, even if the titanium bases have not yet been received in the laboratory
- _ Ti-Connect titanium bases can also be used for the Ceramill base and Ceramill Multi-x
- _ Biocompatible restorations, no black metal margins in the patient's mouth
- _ Aesthetic advantage, emergence profile of the abutment from the gingiva can be customised for each individual case, perfect gingiva, perfect papillae after healing



ceramill ti-connect

4 steps to a finished customised abutment

1 Model preparation



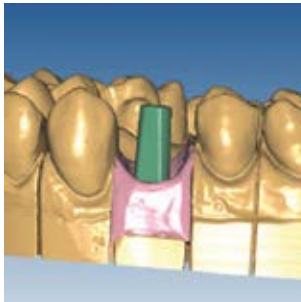
Model with removable gingival mask and integrated laboratory implant.



Fit the scan body onto the laboratory implant.

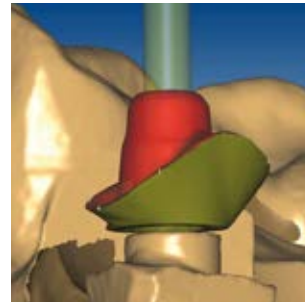
Note: Check that the scan body fits exactly and fix it in position using a screw. Recommended: order a separate screw extra for each scan body for fixing in position and subsequent adhesive retention.

2 Scanning



The model is scanned in the Ceramill Map100, Map300 or Map400 scanner. Simply follow the instructions of the software.

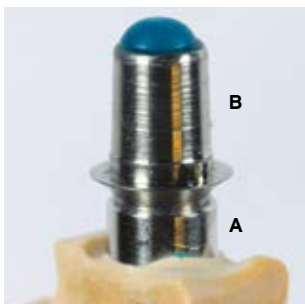
3 Designing



Designing the abutment using the Ceramill M-Plant software. The individual design steps are illustrated in the video tutorial on the homepage www.ceramill-m-center.com.

The abutment can be fabricated in the Ceramill M-Center or using the Ceramill Motion.

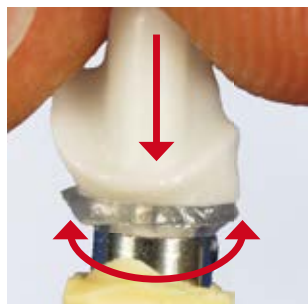
4 Adhesive retention



Protect the connection geometry of the titanium base (A) with separating agent and fix in position on the laboratory implant using a screw.

Sandblast the adhesive surface of the base (B) and abutment using Al₂O₃ blasting medium 50 µm at max. 2 bar. Clean the adhesive surfaces thoroughly. Seal the screw channel with wax.

RelyX™ Unicem® (3M Espe), Panavia® F2.0 (Kuraray) or other similar luting materials are recommended for adhesive retention (use a metal primer, if necessary). Adhere to the manufacturer's instructions.



Apply adhesive to the upper edge (B) of the titanium base.

Rotate the abutment when fitting it to the titanium base, to ensure distribution of the adhesive. Once resistance is felt, detect the final position by rotating the abutment.

The abutment must fit flush with the titanium base. Remove large amounts of adhesive residue immediately.



Remove the excess after the adhesive has cured using a silicone polisher. Remove the wax in the screw channel and clean the abutment together with the titanium base.





CAM PRODUCTION

≡ ceramill motion 2	D 30
≡ ceramill match 2	D 35
≡ ceramill upload-tool	D 37
≡ ceramill m-center	D 38
≡ ceramill zi / zolid	D 39
≡ ceramill therm	D 40
≡ ceramill sintron®	D 41
≡ ceramill argovent	D 42
≡ ceramill argotherm	D 42

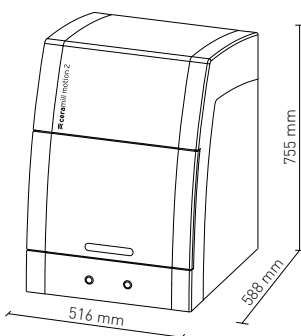
ceramill motion 2

Keep the value creation chain in your laboratory:
5-axis wet and dry milling - compact, versatile and future-proof

With the Ceramill Motion 2 it will be possible to retain the value creation chain of prosthetic and framework digital fabrication almost entirely in-house - for any size of laboratory.

Ceramill Motion 2 combines the 5-axis milling technique (wet/dry) with the wet-grinding technique in a compact machine.

The machine can be used not only as a purely dry or wet system, but can also be operated in the wet and dry combination mode. In the combination mode operation can be easily changed between milling and grinding mode (by exchanging the blank holder).



- _ Material-appropriate processing for each material (e.g. zirconia dry, plastics wet)
- _ Extremely compact design (small installation space, fits in any type of laboratory)
- _ Modular and upgradable with other material blank holders (e.g. for processing glass ceramic)
- _ Newly developed "speed boost" milling strategies for maximum productivity
- _ Tool holder with automatic tool changer
- _ Low maintenance, very precise and extremely robust Jäger spindle
- _ Highly efficient blow-out function and tool cooling provided by integrated air nozzles on the spindle as well as a coolant unit in wet operation
- _ Automatic tool length measurement and broken tool detection
- _ Also ideal for practice laboratories (grinding technique inlays, onlays, etc)
- _ Can be used with open CAD/CAM systems (3Shape®, Dental Wings®)*
- _ Future-proof machine concept for new indications (e.g. models, full-denture prosthetics, splints...)



ceramill motion 2

Tool length measurer
incl. broken tool detection
and calibration

Blank holder
exchangeable, according to
material or indication

6 tool places
with automatic
tool changer

Speed boost
highly optimised milling and grinding
paths for short processing times

Jäger® high frequency spindle
extremely robust and precise

Suction cup
for increased suction power and
reduction of the water spray



Easy exchange of the blank holder
for changing from milling to grinding



5-axis operation (including simulta-
neous) with sufficiently large rotation
path for future indications (models,
full-denture prosthetics etc.)



Suction cup provides improved
suction power and minimises the
dust entering the machine during
dry processing



Ceramill Coolstream - coolant lubri-
cant preparation integrated in the
trolley supports the Motion 2 and can
also incorporate the Airstream
extraction for dry processing

ceramill motion 2

Upgrade for VITABLOCS for Ceramill Motion 2 and lithium disilicate blanks

The Ceramill Motion 2 processes glass-ceramic and lithium disilicate blanks (e.g. VITABLOCS for Ceramill Motion 2 or IPS e-max) in the wet grinding mode reliably and precisely. The processing of glass-ceramic blanks has been optimally integrated in the machine concept and is supported both by the Ceramill Mind CAD software and the Ceramill Match 2 CAM software.

A special blank holder with integrated tool holder ensures high process reliability. Equipped with 3 controllable slots in direct sequence the blanks are processed efficiently.

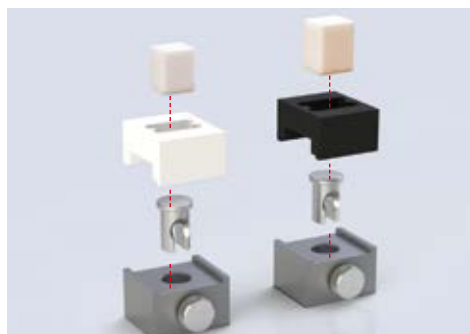
It is possible to work without models using the interface to the iTero intraoral scanner.



Starter kit glass-ceramic for Ceramill Motion 2



QR code to the Vita homepage



GCER Universal Bonding kit - for adhesive retention of glass-ceramic blanks or lithium disilicate blanks with the Amann Girrbach holder



VITABLOCS Mark II & Triluxe forte for Ceramill Motion 2

ceramill motion 2

Ceramill Motion Rack - maximum capacity and back-up assurance with up to 16 Ceramill Motions

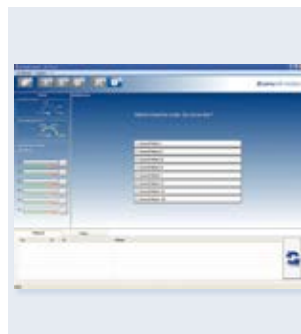


Single Multi Disk disadvantages:

No parallel milling possible,
Production downtime with failure of the system, capacity is difficult to gauge, contamination of the different materials due to only one milling chamber

Ceramill Motion Rack

- _Massive increase in productivity due to parallel milling
- _Parallel mill different materials/indications
- _No complete failure of the system possible
- _Capacity can be gauged cost-effectively (in both directions)
- _USB network up to 16 units - controllable via only one computer
- _3 x manual blank change with an 8.5 h working day



Parallel milling of several Ceramill Motion 2



Milling of different materials and indications possible

ceramill motion 2

NEW at the

IDS
2013

The 4-axis entry-level model to digital fabrication of dental restorations - versatile and future-proof

The Motion 2 machine concept has been successfully on the market since 2012. The Ceramill Motion 2 entry-level version combines the processing modes milling (wet/dry) and grinding (wet) in a compact machine and so also belongs to the second generation of Ceramill Motion milling machines.

Equipped with the same technically high-quality, precise and high-performance components as its big sister - the 5-axis Motion 2.



- _ 4-axis in-house production champion
- _ Diverse materials can be machined due to the choice of wet/dry machining (zirconia, CoCr, resin, wax, glass-ceramic, lithium disilicate etc.)
- _ Material-appropriate processing of a wide range of materials by milling or grinding
- _ Rapid "speed boost" milling strategy for high productivity
- _ Entry-level machine in the digital fabrication of dental restorations
- _ Modularly expandable for the grinding technique using a special glass-ceramic blank holder
- _ Extensive range of indications: inlays/onlays, crown and bridge frameworks, crowns and bridges anatomically reduced and fully anatomical, telescope crowns, custom abutments



Ceramill Motion 2 / 4-axis version
4-axis machining



Nesting and CAM software
Ceramill Match 2



Spindle and interior are equipped for
wet and dry processing



ceramill match 2

Inhouse milling with premium performance, usability and precision

The automatic operator guidance and the transparent user interface of the Ceramill Match 2 CAM software form the basis for a reliable and easy operation. No CAM or milling know-how is required to use it. Even users with little experience may quickly and easily establish the milling programs to manufacture crowns and bridge frameworks. An elaborated collision control (and evasion) of Ceramill Match® ensures a high degree of process reliability.



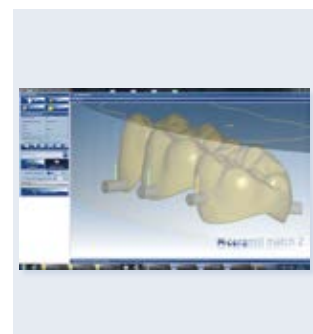
- _ Quick and practical nesting of the design in the blank
- _ Simplified handling with a focus on the essential elements for use in the dental laboratory
- _ Easy positioning and alignment of designs in the blank
- _ Easy adjustment of the position, size and alignment of connectors
- _ Nesting for different shapes of blank (size 71 and glass-ceramic)
- _ Quick calculation of the milling path
- _ Sinter support block for long-span zirconia restorations
- _ Quick milling times for excellent surface quality of the milling result



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



Calculation process with sinter support block



Easy positioning of the connector posts on the designs

ceramill motion 2

The perfect machine for everyone

In order to fully utilise a dental CAM machine in the laboratory it is important to select a system with the appropriate range of functions, which optimally covers the individual requirements of the laboratory – no more and no less.



Group of materials/indications	Material*	Availability	Motion 2 / 5-axes version		Motion 2 / 4-axes version	
			Dry modus	Wet modus	Dry modus	Wet modus
Crowns and bridges, abutments	Ceramill ZI - Zirconia	available	+++	+	+++	+
Crowns and bridges, abutments	Ceramill ZOLID - Translucent zirconia	available	+++	+	+++	+
Crowns and bridges, abutments	CoCr sinter metal	available	+++	---	+++	---
Crowns and bridges, abutments	Ceramill WAX	available	+++	+	+++	+
Crowns and bridges	Ceramill PMMA	available	+	+++	+	+++
Crowns and bridges	Ceramill TEMP	available	+	+++	+	+++
Crowns and bridges, inlays, onlays, veneers	Glass ceramic Vita Mark II - Vitablocs	available	---	+++	---	+++
Crowns and bridges, inlays, onlays, veneers	Glass ceramic general and lithium disilicate	available	---	+++	---	+++
Crowns and bridges, inlays, onlays, veneers	Hybrid ceramic	available 2013	---	+++	---	+++
Splints	PMMA biocompatible	available 2013	+	+++	---	---
Crowns and bridges	New type of polymer plastics	in development	---	+++	---	+++
Models	Model plastic	in development	+++	+++	---	---
Full-denture prosthetics	New denture acrylic (PMMA optimised)	in development	+	+++	---	---

* referring to the product range of Amann Girrbach

+++ = very good | + = possible | --- = not possible

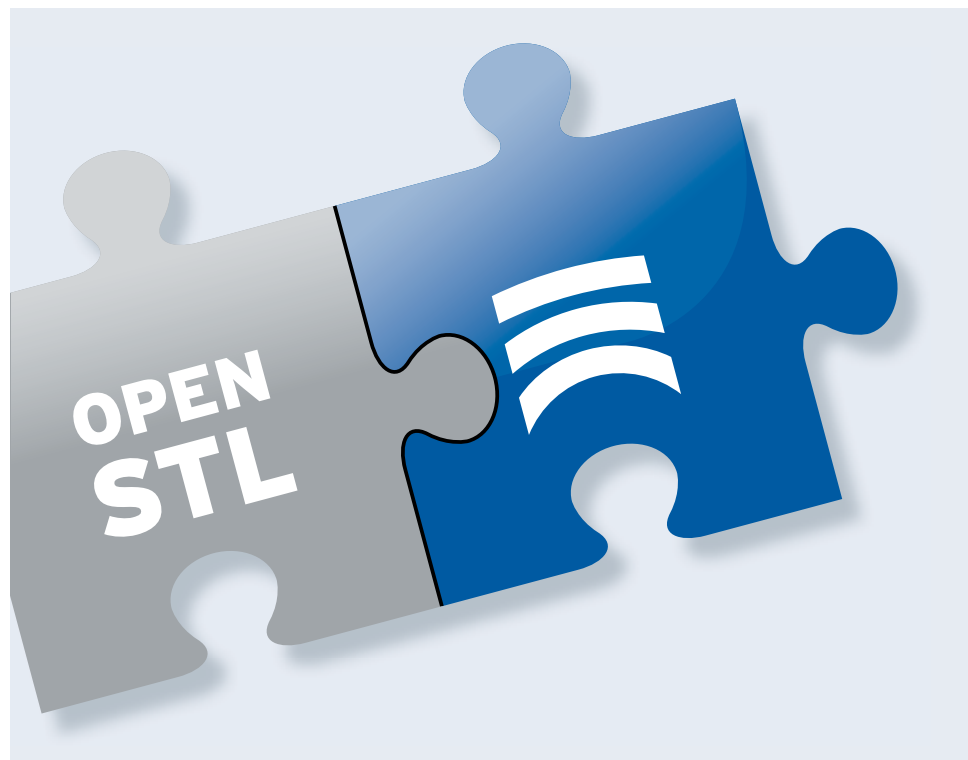
ceramill upload-tool

The convenient interface to the Ceramill Motion and Ceramill M-Center for 3-Shape and Dental Wings users

The "Ceramill Upload Tool" software module allows users of open scanners (3Shape®, Dental Wings®) to fabricate design data in their own laboratory using the Ceramill Motion milling machine or in the Ceramill M-Center manufacturing centre.

+ PRO Amann Girrbach Consumables

- + Specially developed, produced and adapted for the Ceramill CAD/CAM system
- + High-quality consumables at reasonable prices
- + Guaranteed batch traceability



ceramill map400

Creates STL data (open)

ceramill mind

Reads STL data (open)
Sends STL data (open)

ceramill match 2

Reads STL data (open)
Sends STL data (open)

ceramill motion 2

Processes and produces STL data (open)



ceramill m-center

The manufacturing centre for all indications and materials: Versatile, reliable and fast

The prosthetic restoration still bears the individual technician's signature - the milling center will only produce a piece of work which has been previously approved by him.

A procedure using state-of-the-art technology and specially trained processing engineers. Not without dental technical quality control, which takes place before the finished framework is dispatched.

Naturally, various AG support media is available on all aspects in the Ceramill M-Center: Online help, tracking the status of each order, the Ceramill help desk.

www.ceramill-m-center.com



Ceramill M-Center
- now located at
the company
headquarters to
ensure an even
more efficient
service.

- _ The wide spectrum of different materials available (zirconium oxide, glass ceramic, CoCr, titanium, composite, PMMA) cover almost the entire framework fabrication spectrum
- _ Diverse indications (anatomically reduced and fully anatomical crowns and bridges, telescope crowns, inlays/onlays, press-on technique, individual abutments)
- _ Quick processing times - good planning safety
- _ State-of-the-art production techniques produce optimal and precise frameworks
- _ Video-tutorials, CAD-CAM forum and exclusive services for M-Center customers



Ceramill M-Center is equipped with the latest laser melting and ultrasonic® milling technology and produces to the highest quality standards

Quality control by professionals

ceramill zi

Zirconium-oxide



Ceramill ZI material features high strength, rigidity and biocompatibility. The pre-sintered zirconia blanks can be easily processed - they do not splinter and provide optimum edge stability. This makes them ideal for fabricating frameworks for removable and not removable prosthetic restorations such as crowns and bridges in the anterior and posterior region, telescope and conical crowns as well as custom abutments on titanium bases. Tooth-coloured frameworks are possible on request. Four different levels of brightness are available for customised staining. Different sizes of blank provide a very wide range of indications and help to save material. This is because areas that have not been processed can be efficiently re-used.

ceramill zolid

Monolithic zircon oxide



Impressive features of Ceramill Zolid are its stability and aesthetically pleasing translucency. This translucency, which is achieved by sintering at a relatively low 1450 degrees, is very close to that of a natural tooth and can fulfil the demand for a greater depth effect of the artificial tooth. The material stability of Ceramill Zolid makes it suitable for non-veneered, fully anatomical restorations, which are functionally fabricated from one piece in combination with the Ceramill CAD/CAM system.

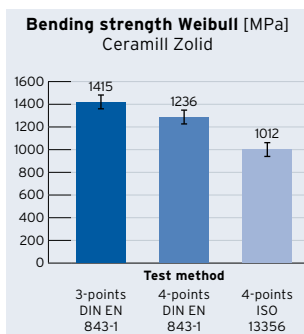
The material can be used as an alternative to full cast crowns, veneered zirconia crowns or anatomically reduced crowns.

Further information about Ceramill Zolid at www.amanngirrbach.com

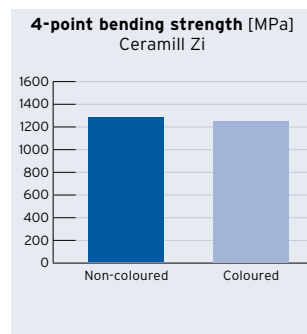
- _ High-grade, certified raw material
- _ Optimal fit due to coded information of the expansion factor on the blanks
- _ Can be used with all conventional zirconia veneering porcelains
- _ Precisely matched to the dental arch contour
- _ The ideal blank for long-span bridges
- _ It covers up to 90% of the large restorations in the laboratory, without loss of material



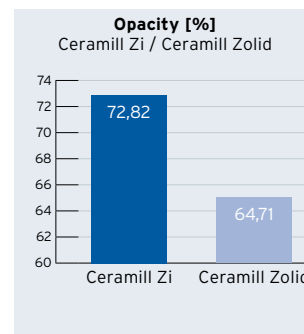
- _ Fabricate fully anatomical zirconia restorations highly efficiently in your laboratory
- _ Non-veneered, without the risk of chipping and easily fabricated
- _ Optimum translucency and light refraction
- _ Sinter temperature analogous to Ceramill Zi
- _ Flexural strength similar to Ceramill Zi



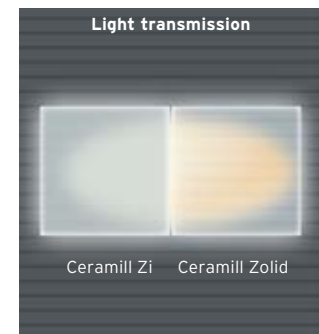
Flexural strength of Ceramill Zolid up to 1500 MPa (Source: internal tests)



Flexural strength of Ceramill Zi unstained and Ceramill Zi stained with Ceramill Liquid (Source: internal tests)



Comparison of Ceramill Zi and Ceramill Zolid (Source: internal tests)





Fully automatic high-performance furnace for final sintering of distortion-free zirconia frameworks

The Ceramill Therm is a high temperature furnace with additional features.

The milled Ceramill zirconium-oxide frameworks are dense-sintered with the Ceramill Therm and thus obtain their final density and the resulting excellent material properties. For sintering, the objects are placed onto sintering beads, which ensures a frictionless sintering process and thus distortion-free frameworks. The Ceramill Therm offers maximum process reliability due to constant temperature control, even temperature distribution in the firing chamber and notification in case of termination of the sintering programme due to e.g. power failure. 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.

The user has 4 sintering programme locations at his disposal; one of them can be individually programmed.



- _ Maximum process reliability due to constant temperature control, even temperature distribution in the firing chamber and notification in case of termination of the sintering programme
- _ Maximum process reliability due to optimally coordinated, fully-automated sintering programmes for different restoration sizes
- _ 4 sintering programme locations; one of them individually programmable by the user
- _ 2 stackable sintering bowls for maximum utilisation of the furnace
- _ Minimum required space and installation time (supply required)



For maximum utilisation of the furnace, the Ceramill Therm exhibits a large firing chamber, in which 2 sintering bowls can be stacked on each other and thus the double amount of frameworks can be sintered in one cycle. With the aid of the sinter forceps, the sinter shell can be transferred easily and safely in and out of the furnace.





The non-precious metal revolution. CoCr sinter metal for in-house dry processing using the Ceramill Motion

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 in-house 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.



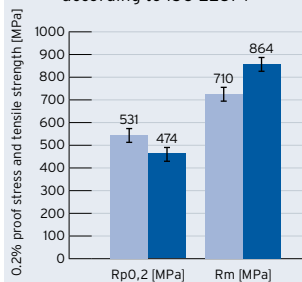
Further information about Ceramill Sintron® can be found in our leaflets



- _ Effortless dry milling on benchtop machines due to “wax-like” texture of the blanks
- _ Maximum convenience - the entire conventional crown and bridge non-precious metal casting procedure is no longer required
- _ Maximum in-house value creation - outsourcing for non-precious metal is no longer required, no dispatch times
- _ Great saving in time during manufacturing of non-precious restorations due to in-house production and computer-based design process
- _ Predictable, reproducible fit and framework quality thanks to the digital processing technique

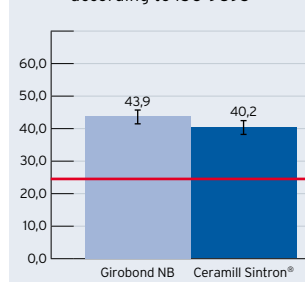


Mechanical properties
according to ISO 22674



■ Girobond NB
■ Ceramill Sintron®

Bond strength
according to ISO 9693



Chemical composition

Components [%]	Casting alloy	Sinter alloy
	Girobond NB	Ceramill Sintron®
Cobalt (Co)	62	66
Chrom (Cr)	25	28
Molybdenum (Mo)	5	5
Tungsten (W)	5	-
Silicon (Si)	1	< 1
Cerium (Ce)	< 1	-
Iron (Fe)	< 1	< 1
Niobium (Nb)	< 1	-
Manganese (Mn)	-	< 1

The chemical composition of Ceramill Sintron® is comparable to that of CoCr casting alloys. Source: Amann Girrbach R&D

ceramill argotherm/argovent

Shielding gas sinter furnace and flood chamber for Ceramill Sintron®

Ceramill Argotherm is a high-temperature furnace and was specially developed for sintering Ceramill Sintron®. The Ceramill Argotherm is easily operated at the press of a button and controls the sinter programme of the milled CoCr units. The compact furnace that requires minimum space is used as a benchtop model and cools actively after sintering.

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



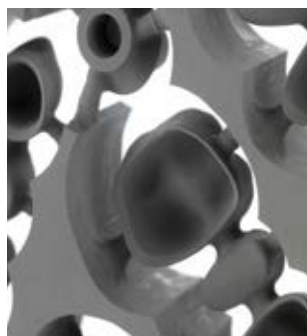
Ceramill Sintron® was developed in collaboration with the Fraunhofer IFAM Dresden.

- _ Controls the sinter programme, which was specially developed for Ceramill Sintron®
- _ Controls the shielding gas supply of the Ceramill Argovent sinter chamber
- _ Actively cools after sintering
- _ Sintering at the press of a button - very easy operation
- _ Sintering under shielding gas
- _ Minimal shielding gas consumption
- _ Perfect shielding gas flushing at the sinter framework

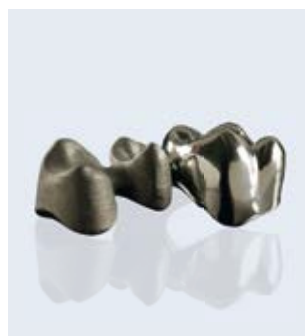


QR-Code

Ceramill Sintron® Video



Ceramill Sintron®-blanks before sintering process.



Restoration milled from Ceramill Sintron® with and without polishing



Veneered and polished Ceramill Sintron® restoration

INFORMATION ORDERS

**Artex® Artikulator**

218760	Artex Typ CR
--------	--------------

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

**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)

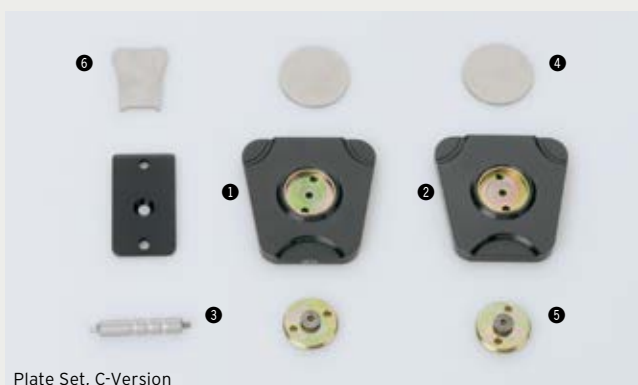


Plate Set, C-Version



Mounting tool

Splitex® Disc Set

216100C	① - ⑥ Splitex Plate Set, C-version
216100	Splitex Plate Set (without picture)
216110C	① Splitex Base Plate (TOP) without magnet
216120C	② Splitex Adjust. Plate mandibular without magnet
216160	③ 1 Magnet Removal Pin, 2/pkg.
216150	④ Retention Disks, 100 pcs. (Set: 2 pcs. included)
216111C	⑤ Splitex Magnet (Set: 2 pcs. included)
216112C	⑥ Assembly wrench

216170	Splitex Screws max./mand.
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216140	Splitex Magnets, 6 pcs.
--------	-------------------------

216113C	⑦ Mounting tool for magnetic holder
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**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 (<10µm!).

_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	Splitex-Counter Plate, 10 pcs. Premium white
216235	Splitex-Counter plates 100 pcs. Classic black
216150	Retention Disks, Ø 36,5 x 1,5 for Splitex 100 pcs.



Our entire Artex range can be found in the "Lab Equipment Classics" catalogue



ORDER INFORMATION



Technical Data

Dimension: 250 x 183 x 370
Weight: 9,6kg
Mains supply:
230(100/115)V/0,32W
Motor speed: 2.800 min⁻¹
Laser class: 3A < 5mW

Giroform® Pin Drill

176700 Giroform Pin Drill

Delivery volume: Tungsten carbide burr 176710, plate support - L 176712, impression carrier 176733, Tubular socket wrench 176702, holding pin 176703, screw driver for adjustment 176004

176710 Giroform-Tungsten Carbide Burr

176712 Giroform-attachment for plates L

176733 Giroform-Impression carrier

Accessories:

176712 Giroform-attachment for plates L

176722 Giroform-attachment for plates XL

176711 Giroform-attachment for plates Quadrant



Giroform® Starter Kit

576702 Giroform-Starterkit

176710 ❶ Tungsten carbide burr

176733 ❷ Impression Carrier 2x

321070 ❸ NT-Cutter

359010 ❹ Hammer with Aluminium handle

576450 ❺ Giroform-Pins, 1.000 pkg.

576461 ❻ Giroform putty 1kg

576710 ❼ Giroform base plate Premium +, 100 pkg.

5767501 ❽ Giroform secondary plate 5x

576765 ❾ Adjustment plate clear, 2 pkg.

576950 ❿ Giroform sleeve "kombi"

576805 ⓫ Giroform space retainer foil, 50 pkg.

815300 ⓬ Arbor band mandrel 2.35mm

815330 ⓭ Arbor band, grain 120, 50 pkg.

990252 ⓮ Timer

576702INT Giroform Starter Kit International

= Starter Kit 576702 + Classic Plate 576720 (10 pcs.),
Magnets 512511 (10 pcs.), Sockets 512512 (10 pcs.),
576716 Magnetic plates incl. screw (10 pcs.)



Giroform® Base Plates, 100 pcs.

576710 ❶ Giroform Premium+ L, 100 pcs.

576745 Giroform Premium+ XL, 100 pcs.

576720 ❷ Giroform Classic L, 100 pcs.

576740 Giroform Classic XL, 100 pcs.

576726 ❸ Giroform Classic L blue, 100 pcs.

576765 ❹ Giroform adjustment plate L, 2 pcs.

576766 Giroform adjustment plate XL, 2 pcs.



Giroform® Secondary Plate

576750 L with Magnet, 50 pcs.

576751 XL with Magnet, 50 pcs.



Giroform® Pins

576450 1.000 pcs.

576451 10.000 pcs.

Our entire Giroform range can
be found in the "Lab Equipment
Classics" catalogue





Ceramil Mind

Ceramil Motion 2 /
4-axes version

Ceramil Inhouse Digital Motion | SET

- | | |
|--------|--|
| 179008 | - Ceramil Motion 2 / 4x incl.
Ceramil Match 2 (Milling device incl. CAM Software) * |
| | - PC incl. monitor, keyboard, mouse |

* without furnace and extraction



Ceramil Mind

Ceramil Motion 2 /
5-axes version

Ceramil Inhouse Digital Motion 2 | SET

- | | |
|--------|--|
| 179015 | - Ceramil Motion 2 / 5x incl.
Ceramil Match 2 (Milling device incl. CAM Software) * |
| | - PC incl. monitor, keyboard, mouse |

* without furnace and extraction



Ceramil Map400

Ceramil Mind

Ceramil Motion 2 /
4-axes version

Ceramil Inhouse Digital 400 | SET

- | | |
|--------|--|
| 179009 | - Ceramil Map400 (Scanner incl. transferkit) |
| | - Ceramil Artex (Softwareupgrade virtual articulator) |
| | - Ceramil Mind (CAD Software) |
| | - Ceramil Motion 2 / 4x incl.
Ceramil Match 2 (Milling device incl. CAM Software) * |
| | - PC incl. monitor, keyboard, mouse |

* without furnace and extraction



Ceramil Map400

Ceramil Mind

Ceramil Motion 2 /
5-axes version

Ceramil Inhouse Digital 400 Motion 2 | SET

- | | |
|--------|--|
| 179017 | - Ceramil Map400 (Scanner incl. transferkit) |
| | - Ceramil Artex (Softwareupgrade virtual articulator) |
| | - Ceramil Mind (CAD Software) |
| | - Ceramil Motion 2 / 5x incl.
Ceramil Match 2 (Milling device incl. CAM Software) * |
| | - PC incl. monitor, keyboard, mouse |

* without furnace and extraction



Ceramil Map400

Ceramil Mind

Ceramil Outsource Digital 400 | SET

- | | |
|--------|---|
| 179006 | - Ceramil Map400 (Scanner incl. transferkit) |
| | - Ceramil Artex (Softwareupgrade virtual articulator) |
| | - Ceramil Mind (CAD Software) |
| | - PC incl. monitor, keyboard, mouse |

Technical Data:



Ceramill	Map400	Motion 2 / 4-axes version	Motion 2 / 5-axes version
Art.Nr.	179140	179280	179250
Dimensions D/W/H (mm)	closed: 415 x 407 x 535 open: 415 x 407 x 606	588 x 516 x 755	588 x 516 x 755
Weight (kg)	31	75	78
Power supply (V/A)	100-240/2x1,25	230/3,15 100; 115/6,3	230/3,15 100; 115/6,3
E-fuse	T 2x1,25A	T3, 15A / T6, 3A	T3, 15A / T6, 3A
Output (W)	80	250	250
Compressed air connection		dry, clean compressed air 6 bar max. 50 L/min	dry, clean compressed air 6 bar max. 50 L/min
Engine speed (U/min ⁻¹)		60.000	60.000
Torque (Ncm)		4	4
Collet chuck (Ø mm)		3	3
Sound level (max. dbA)		60	60
Accuracy (µm)	<20	<20	<20
Axes	2	5	5
Recommended installation site	Table, no direct sunlight	Table, no direct sunlight	Table, no direct sunlight
Recommended temperature	15-30 °C	18-30 °C	18-30 °C

System requirements:

- _ Internet connection (minimum DSL) 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)

Processor speed/model	One Intel Xeon, 2,8 GHz
Memory	16 GB RAM
Hard drive	500 GB RAID1
Graphics	NVIDIA Quadro 2000
Operating system	Installed Windows 7 system Recovery software on request
Virus protection	Microsoft Security Essentials
Installed software package	Windows 7 Ultimate 64bit, Service Pack 1, .Net Framework 4.0
Display/Resolution pixel	22 Zoll / 1680x1050
Recommended installation site	away from the floor, not on the wall
Weight (kg)	27

Upgrades for Ceramill Mind

- 179151 ① Ceramill Artex (virtual articulator, contained in the pack contents of the 300 version sets)
- 179152 ② Ceramill M-Plant (Abutmentmodul)
- 179154 ③ Ceramill Mindforms by Knut Miller incl. tooth mould book
- 179155 ④ Ceramill Mind TruSmile

Upgrades for Ceramill Map

- 179115 Ceramill MultiCap



**Technical Data**

Dimensions: 656 x 518 x 651mm
 Weight: 36 kg
 Electrical connection values:
 100-230V/T 1,0A / 50-60Hz
 Power: 150W

Ceramill Coolstream

- _ Integrated coolant preparation in trolley
- _ Supports the Motion 2
- _ Incorporates the Airstream extractor for dry milling

178630 Ceramill Coolstream

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

**Technical Data**

Dimensions: 654 x 382 x 525mm
 Weight: 35kg
 Furnace chamber volume: 1,1l
 Max. power consumption: 2kW
 Max. temperature: 1530°C

Ceramill Therm

178350 Ceramill Therm

Delivery volume: Ceramill Therm sintering furnace; Sintering shell, Sintering pearls, 200g, Ø 1mm

Accessories:

178360 ① Stackable sintering bowl, 1 pcs.

178370 Ceramill ZOLID Stackable sintering bowl, 1 pcs. 1x
 178360 and 178370: stackable only in Ceramill Therm (178350)

178361 ② Gripper for Sintering shell, stackable

178311 ③ Sintering pearls 200g, Ø 1mm
 for Ceramill ZI and Ceramill ZOLID 1x

**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

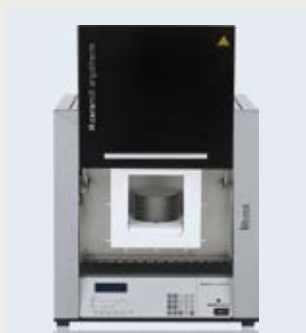
Ceramill Airstream

- _ Suction for Ceramill Motion, Multi-x and Smartbox Invest
- _ May also be used for other devices with attached adapter

178600 Ceramill Airstream 230 V
(100-120V = 178600V100-V120)

178610 Airstream Suction Bag (5 pcs.)

178611 Airstream Microfilter (1 pcs.)

**Technical Data**

Dimensions (DxWxH) incl. service unit:
 385 x 400 x 465mm
 Weight: 23kg
 Electrical connections: V/Hz 220-
 240/50-60
 Power: 3,5kW
 Max. temperature: 1.550°C
 Fuse (time-delayed): 4A
 Degree protection - IP20
 Thermal protection class according to
 DIN EN 60519-2: Class 0
 Sound pressure level: < 80 db(A)
 Ambient conditions:
 - temperature: +5 - +40°C
 - humidity: 80 %

Ceramill Argotherm

178700 Ceramill Argotherm (incl. Ceramill Argovent)

Delivery volume: Sinter furnace Ceramill Argotherm, sinter chamber
 Ceramill Argovent

178710 Ceramill Argovent
(Ceramill Argotherm delivery includes)

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

178711 Ceramill Argovent sintering tray

178712 Ceramill Argovent sinter hood

178713 Ceramill Argovent tongs

178714 Ceramill Sintron® sinter beads

**Ceramill Sintron Starterkit**

1760016 Ceramill Sintron® Starterkit for Ceramill Motion ◆ 1x

1760017 Ceramill Sintron® Starterkit for Ceramill Motion 2 ▲ 1x

Accessories

179272 Drip tray Ceramill Motion 2 ▲ 1x

**Ceramill Scanmarker**

Ceramill 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.

760562 Ceramill Scanmarker 50ml

**Ceramill Coolant**

178650 Ceramill Coolant

**Ceramill Motion Starterkit**


760012 Ceramill Motion Starterkit
Delivery specification: see label ★

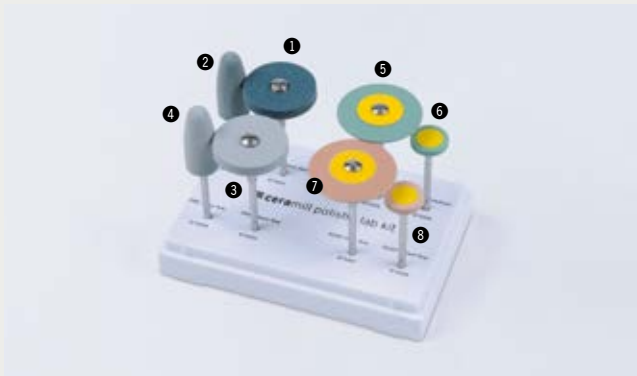
**Ceramill Zolid Starterkit**

760013 Ceramill Zolid Starterkit
Delivery specification: see label □




Starterkit Glaskeramik for Ceramill Motion 2

760050 Starterkit Glaskeramik for Ceramill Motion 2
Delivery specification: see label 



Ceramill Polish - Lab Kit


Zircon oxide-polishing set for the dental technician

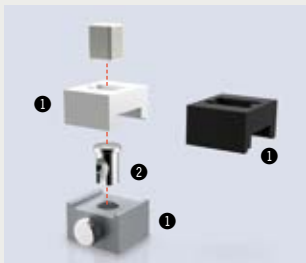
875500	Ceramill Polish - Lab Kit Delivery includes: as shown in the photograph	 1x
875501	❶ PRE-Wheel medium (without mandrel) wheel, grain: medium, before sintering	10 pcs.
875502	❷ PRE-Cone medium cone, grain: medium, before sintering	10 pcs.
875503	❸ PRE-Wheel fine (without mandrel) wheel, grain: fine, before sintering	10 pcs.
875504	❹ PRE-Cone fine cone, grain: fine, before sintering	10 pcs.
875505	❺ POST-Disc medium disc, grain: medium, after sintering	2 pcs.
875506	❻ POST-Wheel medium wheel, grain: medium, after sintering	4 pcs.
875507	❼ POST-Disc fine disc, grain: fine, after sintering	2 pcs.
875508	❸ POST-Wheel fine wheel, grain: fine, after sintering	4 pcs.



Ceramill Polish - Dent Kit



Zircon oxide-polishing set for the dentist

875509	Ceramill Polish - Dent Kit Delivery includes: as shown in the photograph	 1x
875510	❶ Cup medium, cup, grain: medium	4 pcs.
875511	❷ Disc medium, disc, grain: medium	4 pcs.
875512	❸ Cup fine, cup, grain: fine	4 pcs.
875513	❹ Disc fine, disc, grain: fine	4 pcs.



GCER Universal Bonding Kit


Adhesive aid for adhering glass ceramic blanks or lithium disilicate blanks to the Amann Girrbach holder incl. 2 attachments for different sizes of blank (10x12x15, 12x14x18)

760973	❶ Adhesive aid for glass ceramic blanks incl. 2 attachments	 1x
760974	❷ Universal holder for glass ceramic blanks (10 pcs.)	 1x



**Blank holder glass ceramic blanks (3x)
incl. storage bar**

for clamping glass ceramic blanks or lithium disilicate blanks in the Ceramill Motion 2

179260	Blank holder glass ceramic blanks (3x) incl. storage bar	 1x
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Ceramill Stain & Glaze Kit (set of painting colours)

Stains and glaze powders for customising zirconia.

760350	Ceramill Stain & Glaze Kit, 12 pcs.	□ 1x
Content:		
760351	Ceramill Stain yellow 4g	
760352	Ceramill Stain orange 4g	
760353	Ceramill Stain blue 4g	
760354	Ceramill Stain grey 4g	
760355	Ceramill Stain white 4g	
760356	Ceramill Stain A 4g	
760357	Ceramill Stain B 4g	
760358	Ceramill Stain C 4g	
760359	Ceramill Stain D 4g	
760360	Ceramill Glaze, glaze powder 4g	
760361	Ceramill Stain & Glaze Working Liquid Liquid for mixing the stain and glaze powders 25 ml	
760362	Ceramill Stain & Glaze Reflow Liquid Liquid for restoring the initial consistency	



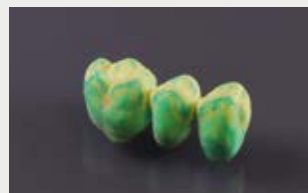
Other colour solutions x 100 ml:

760476	Ceramill Liquid CL OR	□ 1x
760477	Ceramill Liquid CL GR	□ 1x
Accessories:		
760450	Ceramill Liquid colour jar (10 pcs.)	□ 1x
760478	Ceramill Liquid Brush, Size 1 (4 pcs.)	
760479	Ceramill Liquid Brush, Size 3 (4 pcs.)	

Ceramill Liquid

Four dilutable, water-based, colour solutions for reliable handling and customised staining of Ceramill ZI and Ceramill ZOLID restorations before sintering.

760470	Ceramill Liquid complete set 4 colour solutions à 100 ml + jars + forceps + Ceramill Liquid Brush (Size 1+3, 1x each size)	★ 1x
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Ceramill Liquid Eye

Code colours for Ceramill Liquid

760480	Ceramill Liquid Eye complete set, 4 x 25 ml	□ 1x
Code colours complete set:		
760481	Ceramill Liquid Eye red	760483 Ceramill Liquid Eye blue
760482	Ceramill Liquid Eye green	760484 Ceramill Liquid Eye yellow



Ceramill Marker - Excellent adhesion during processing with a water-cooled laboratory turbine. Marks imperfections without depositing anything.

Ceramill Marker

Blue, oil-based contact paste for fitting zirconium oxide crowns (e.g. Ceramill ZI).

760021	Ceramill Marker, blue 3g, contact paste, 1 pcs.	★ 1x
583150	Pastebrush, brush for Ceramill Marker, 1 pcs.	★ 1x



Ceramill Motion Milling cutter

760604	Ceramill Roto Motion 1,0 Cutter with magnet holder	Ø 1,0 mm	1 pcs.	★ 2x
760605	Ceramill Roto Motion 2,5 Cutter with magnet holder	Ø 2,5 mm	1 pcs.	★ 2x
760606	Ceramill Roto Motion 0,6 Cutter with magnet holder	Ø 0,6 mm	1 pcs.	★ 2x □ 1x



Ceramill Motion 2 Diamant

Diamond rotary instruments for milling glass ceramics or lithium disilicate ceramics

760621	Ceramill Motion 2 Diamant 1,4 - Rotary instrument with magnet holder	Ø 1,4 mm	1 pcs.	□ 1x
760622	Ceramill Motion 2 Diamant 1,8- Rotary instrument with magnet holder	Ø 1,8 mm	1 pcs.	□ 1x
760623	Ceramill Motion 2 Diamant 1,8- Rotary instrument with magnet holder	Ø 1,0 mm	1 pcs.	□ 1x

**Ceramil Sintron®**

CoCr-blank, dental arch shape

761101	Ceramil Sintron 71XXS	h = 10 mm	1 pcs.
761102	Ceramil Sintron 71XS	h = 12 mm	1 pcs. ◆▲ 1x
761103	Ceramil Sintron 71S	h = 14 mm	1 pcs.
761104	Ceramil Sintron 71	h = 16 mm	1 pcs. ◆▲ 1x
761105	Ceramil Sintron 71M	h = 18 mm	1 pcs.
761106	Ceramil Sintron 71L	h = 20 mm	1 pcs.

**Ceramil ZI**

Zirconium-oxide blank, dental arch shape

760172	Ceramil ZI 71 XS	h=12 mm	1 pcs. ☒ 1x
760173	Ceramil ZI 71 S	h=14 mm	1 pcs.
760174	Ceramil ZI 71	h=16 mm	1 pcs. ☒ 1x
760176	Ceramil ZI 71 M	h=18 mm	1 pcs.
760184	Ceramil ZI 71 L	h=20 mm	1 pcs.
760175	Ceramil ZI 71 XL	h=25 mm	1 pcs.

**Ceramil Zolid**

Zirconium-oxide blank, dental arch shape

760162	Ceramil ZOLID 71 XS	h=12 mm	1 pcs.
760163	Ceramil ZOLID 71 S	h=14 mm	1 pcs. ■ 1x
760164	Ceramil ZOLID 71	h=16 mm	1 pcs.
760165	Ceramil ZOLID 71 M	h=18 mm	1 pcs.
760166	Ceramil ZOLID 71 L	h=20 mm	1 pcs.
760167	Ceramil ZOLID 71 XL	h=25 mm	1 pcs.
760301	Ceramil TEST 71 L	h=20 mm	1 pcs.

**Ceramil Wax**

Wax blank, dental arch shape

760307	Ceramil WAX grey 71 XS	h=13 mm	1 pcs.
760302	Ceramil WAX grey 71 L	h=20 mm	1 pcs.
760315	Ceramil WAX white 71 XS	h=13 mm	1 pcs.
760316	Ceramil WAX white 71 XS	h=13 mm	8 pcs.
760313	Ceramil WAX white 71 L	h=20 mm	1 pcs.
760314	Ceramil WAX white 71 L	h=20 mm	8 pcs.

**Ceramil PMMA**

Acrylic which burns out without residue, dental arch shape

760311	Ceramil PMMA 71 XS	h=13 mm	1 pcs.
760303	Ceramil PMMA 71 L	h=20 mm	1 pcs. ☒ 1x

Ceramil TEMP

Dyed PMMA, dental arch shape

760309	Ceramil TEMP middle 71 XS	h=13 mm	1 pcs.
760305	Ceramil TEMP middle 71 L	h=20 mm	1 pcs. ☒ 1x
760310	Ceramil TEMP light 71 XS	h=13 mm	1 pcs.
760306	Ceramil TEMP light 71 L	h=20 mm	1 pcs.
760308	Ceramil TEMP dark 71 XS	h=13 mm	1 pcs.
760304	Ceramil TEMP dark 71 L	h=20 mm	1 pcs.



VITABLOCS Mark II



VITABLOCS TriLuxe forte

VITABLOCS Mark II for Ceramill Motion 2

760051	VITABLOCS Mark II, I12, A1C	10x12x15 mm	5 pcs.
760052	VITABLOCS Mark II, I12, A2C	10x12x15 mm	5 pcs. ● 1x
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. ● 1x
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 for Ceramill Motion 2

760070	VITABLOCS TriLuxe forte, TF12, A1C	10x12x15 mm	5 pcs.
760071	VITABLOCS TriLuxe forte, TF12, A2C	10x12x15 mm	5 pcs. ● 1x
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.

Titanium base for all conventional implant systems

Condition: Ceramill Motion 1 und 2 Titanium bases and components für individual single abutments			
Products for restorations		Products for the scan	
Screw		Screw	
Titanium base		Scan body	
Condition: Ceramill Motion 2 Conical SR titanium bases and components for multi-unit, screw-retained restorations.. (SR = Screw retained)			
Products for restorations		Products for the scan	
Screw SR		Screw SR	
Adhesive coping SR		Scan body SR	
Titanium base SR		Titanium base SR	

Range	Implant manufacturer	Implant system	Compatible titanium bases from AG	Compatible conical titanium bases SR from AG
1	Astra Tech	Osseo Speed®	x	x
2	Biomet 3i	Osseotite® Certain®	x	x
3	Straumann	BoneLevel®	x	x
4	Nobel Biocare	Nobel Active®	x	x
5	Straumann	SynOcta®	x	x
6	Nobel Biocare	Replace Select®	x	x
7	Biomet 3i	Osseotite®	x	x
8	Nobel Biocare	Branemark®	x	x
9	Zimmer	Tapered Screw-Vent®	x	x
10	Dentsply Friadent	Frialit / Xive®	x	x
11	Camlog	Camlog®	☒	x
12	Camlog	Conelog®		x
13	Dentsply-Friadent	Ankylos®		x
14	Bredent Medical	Sky®		x
-	Thommen Medical	SPI®ELEMENT SPI®CONTACT SPI®ONETIME	☒	
-	Prowital	Prowital-Implantate	☒	
-	MIS	SEVEN M4 C1	☒	
-	medentis medical GmbH	ICX-templant®	☒	
-	Dentaurum Implants GmbH	tioLogic®	☒	
-	OSSTEM Implant	GS US SS	☒	
-	Dentium	Implantium	☒	

☒ To be ordered from the implant manufacturer or manufacturer of the titanium bases

All components, which are not listed in our product catalogue, can be purchased directly from the manufacturer. Screwdrivers should be purchased from the manufacturer of the respective implant systems. All product brands labelled with TM/® are registered trademarks of the manufacturer named. All original implants should be purchased from the respective manufacturer.



ORDER INFORMATION

Range	CAD/CAM System	Range one Ceramill ti-connect for Astra Tech® OsseoSpeed®				Range two Ceramill ti-connect for Biomet 3i® Osseotite® Certain®			
		Kit a 3,5/4,0 mm	Kit b 4,5/5,0 mm			Kit a 3,4 mm	Kit b 4,1 mm	Kit c 5,0 mm	

Laboratory implant for titanium base and titanium base SR									
		792131	792132			792231	792232	792233	

Titanium basis and components for individual abutments

Titanium base incl. screw	Ceramill Motion 1 und 2								
		792111	792112			792211	792212	792213	
Scan body	Ceramill Motion 1 und 2								
		792121	792122			792221	792222	792222	
Screw	Ceramill Motion 1 und 2								
		792141	792142			792241	792241	792241	

Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 0,5 mm	Ceramill Motion 2								
		7921511	7921521			7922511	7922521		
Titanium base SR H 1,5 mm	Ceramill Motion 2								
		7921512	7921522			7922512	7922522		
Titanium base SR H 2,5 mm	Ceramill Motion 2								
		7921513	7921523			7922513	7922523		
Adhesive coping SR (incl. screw SR) H 3 mm	Ceramill Motion 2								
		792161	792161			792261	792261		
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2								
		792162	792162			792262	792262		
Scan body SR	Ceramill Motion 2								
		792171	792171			792171	792171		
Screw SR	Ceramill Motion 2								
		792181	792181			792281	792281		

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All original implants should be purchased from the respective manufacturer.

Range	CAD/CAM System	Range three Ceramill ti-connect for Straumann® BoneLevel®				Range four Ceramill ti-connect for Nobel Biocare® Nobel Active™			
		Kit a 3,3mm (NC)	Kit b 4,1/4,8mm (RC)			Kit a 3,5mm (NP)	Kit b 4,3/5,0mm (RP)		
Laboratory implant for titanium base and titanium base SR									
		792331	792332			792431	792432		

Titanium basis and components for individual abutments

Titanium base incl. screw	Ceramill Motion 1 und 2	 792311	 792312			 792411	 792412		
Scan body	Ceramill Motion 1 und 2	 792321	 792322			 792421	 792422		
Screw	Ceramill Motion 1 und 2	 792341	 792341			 792441	 792442		

Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 0,5 mm	Ceramill Motion 2	 7923511	 7923521			 7924511	 7924521		
Titanium base SR H 1,5 mm	Ceramill Motion 2	 7923512	 7923522			 7924512	 7924522		
Titanium base SR H 2,5 mm	Ceramill Motion 2	 7923513	 7923523			 7924513	 7924523		
Adhesive coping SR (incl. screw SR) H 3 mm	Ceramill Motion 2	 792361	 792361			 792461	 792461		
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2	 792362	 792362			 792462	 792462		
Scan body SR	Ceramill Motion 2	 792171	 792171			 792171	 792171		
Screw SR	Ceramill Motion 2	 792381	 792381			 792481	 792481		

All components, which are not listed in our product catalogue, can be purchased directly from the manufacturer.
Screwdrivers should be purchased from the manufacturer of the respective implant systems.
All product brands labelled with TM/® are registered trademarks of the manufacturer named.
All original implants should be purchased from the respective manufacturer.



ORDER INFORMATION

Range	CAD/CAM System	Range five Ceramill ti-connect for Straumann® SynOcta®				Range six Ceramill ti-connect for Nobel Biocare® Replace Select®			
		Kit a 3,5 mm (NN)	Kit b 4,8 mm (RN)	Kit c 6,5 mm (WN)		Kit a 3,5 mm	Kit b 4,3 mm	Kit c 5,0 mm	Kit d 6,0 mm



















Laboratory implant for titanium base and titanium base SR

							
792531	792532	792533		792631	792632	792633	792634

Titanium basis and components for individual abutments

Titanium base incl. screw	Ceramill Motion 1 und 2								
		792511	792512	792513		792611	792612	792613	792614
Scan body	Ceramill Motion 1 und 2								
		792521	792522	792523		792621	792622	792623	792624
Screw	Ceramill Motion 1 und 2								
		792541	792542	792542		792641	792642	792642	792642

Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 0 mm	Ceramill Motion 2								
			7925520						
Titanium base SR H 0,5 mm	Ceramill Motion 2								
						7926511	7926521		
Titanium base SR H 1,5 mm	Ceramill Motion 2								
						7926512	7926522		
Titanium base SR H 2,5 mm	Ceramill Motion 2								
						7926513	7926523		
Adhesive coping SR (incl. screw SR) Range 5 - H 3,75 mm Range 6 - H 3 mm	Ceramill Motion 2								
			792561			792661	792661		
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2								
						792662	792662		
Scan body SR	Ceramill Motion 2								
			792571			792171	792171		
Screw SR	Ceramill Motion 2								
			792581			792681	792681		

All components, which are not listed in our product catalogue, can be purchased directly from the manufacturer.
Screwdrivers should be purchased from the manufacturer of the respective implant systems.
All product brands labelled with TM/® are registered trademarks of the manufacturer named.
All original implants should be purchased from the respective manufacturer.


ORDER INFORMATION

Range	CAD/CAM System	Range seven Ceramill ti-connect for Biomet 3i Osseotite®				Range eight Ceramill ti-connect for Nobel Biocare Brånemark®			
		Kit a 3,4 mm	Kit b 4,1 mm	Kit c 5,0 mm		Kit a 3,5 mm	Kit b 4,1 mm	Kit c 5,1 mm	

Laboratory implant for titanium base and titanium base SR

							
792731	792732	792733		792831	792832	792833	

Titanium basis and components for individual abutments

Titanium base incl. screw	Ceramill Motion 1 und 2								
		792711	792712	792713		792811	792812	792813	
Scan body	Ceramill Motion 1 und 2								
		792721	792722	792722		792821	792822	792823	
Screw	Ceramill Motion 1 und 2								
		792741	792741	792741		792841	792842	792843	








Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 2,5 mm	Ceramill Motion 2								
		7927513	7927523			7928513	7928523		
Adhesive coping SR (incl. screw SR) 3 mm	Ceramill Motion 2								
		792761	792761			792861	792861		
Adhesive coping SR (incl. screw SR) 4 mm	Ceramill Motion 2								
		792762	792762			792862	792862		
Scan body SR	Ceramill Motion 2								
		792171	792171			792171	792171		
Screw SR	Ceramill Motion 2								
		792781	792781			792881	792881		














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ORDER INFORMATION

Range	CAD/CAM System	Range nine Ceramill ti-connect for Zimmer Tapered Screw-Vent®				Range ten Ceramill ti-connect for Dentsply Friadent Frialit/Xive®			
		Kit a 3,5 mm	Kit b 4,5 mm	Kit c 5,7 mm		Kit a 3,4 mm	Kit b 3,8 mm	Kit c 4,5 mm	Kit d 5,5 mm
Laboratory implant for titanium base and titanium base SR		 792931	 792932	 792933		 7921031	 7921032	 7921033	 7921034

Titanium basis and components for individual abutments

Titanium base incl. screw	Ceramill Motion 1 und 2	 792911	 792912	 792913		 7921011	 7921012	 7921013	 7921014
Scan body	Ceramill Motion 1 und 2	 792921	 792922	 792923		 7921021	 7921022	 7921023	 7921023
Screw	Ceramill Motion 1 und 2	 792941	 792941	 792941		 7921041	 7921041	 7921041	 7921041

Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 0,5 mm	Ceramill Motion 2	 7929511	 7929521			 79210511	 79210521	 79210531	
Titanium base SR H 1,5 mm	Ceramill Motion 2	 7929512	 7929522			 79210512	 79210522	 79210532	
Titanium base SR H 2,5 mm	Ceramill Motion 2	 7929513	 7929523			 79210513	 79210523	 79210533	
Adhesive coping SR (incl. screw SR) H 3 mm	Ceramill Motion 2	 792961	 792961			 7921061	 7921061	 7921061	
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2	 792962	 792962			 7921062	 7921062	 7921062	
Scan body SR	Ceramill Motion 2	 792171	 792171			 792171	 792171	 792171	
Screw SR	Ceramill Motion 2	 792981	 792981			 7921081	 7921081	 7921081	




































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ORDER INFORMATION

Range	CAD/CAM System	Range eleven Ceramill ti-connect for Camlog				Range twelve Ceramill ti-connect for Conelog			
		Kit a 3,3 mm	Kit b 3,8 mm	Kit c 4,3 mm		Kit a 3,3 mm	Kit b 3,8/4,3 mm		

Laboratory implant for titanium base and titanium base SR	To be ordered directly from Camlog	To be ordered directly from Camlog
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Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)



Titanium base SR H 0,5 mm	Ceramill Motion 2								
		79211511	79211521	79211531		79212511	79212521		
Titanium base SR H 1,5 mm	Ceramill Motion 2								
		79211512	79211522	79211532		79212512	79212522		
Titanium base SR H 2,5 mm	Ceramill Motion 2								
		79211513	79211523	79211533		79212513	79212523		
Adhesive coping SR (incl. screw SR) H 3 mm	Ceramill Motion 2								
		7921161	7921161	7921161		7921261	7921261		
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2								
		7921162	7921162	7921162		7921262	7921262		
Scan body SR	Ceramill Motion 2								
		792171	792171	792171		792171	792171		
Screw SR	Ceramill Motion 2								
		7921181	7921181	7921181		7921281	7921281		

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ORDER INFORMATION

Range	CAD/CAM System	Range thirteen Ceramill ti-connect for Dentsply Friadent Ankylos®				Range fourteen Ceramill ti-connect for Bredent Medical Sky®			
		Kit a 3,5 - 7,0 mm				Kit a 3,5 - 5,5 mm			

Laboratory implant for titanium base and titanium base SR		7921331					7921431		

Conical SR titanium bases and components for multi-unit, screw-retained restorations (SR = Screw retained)

Titanium base SR H 0,5 mm	Ceramill Motion 2		79213511					79214511			
Titanium base SR H 1,5 mm	Ceramill Motion 2		79213512					79214512			
Titanium base SR H 2,5 mm	Ceramill Motion 2		79213513					79214513			
Adhesive coping SR (incl. screw SR) H 3 mm	Ceramill Motion 2		7921361					7921461			
Adhesive coping SR (incl. screw SR) H 4 mm	Ceramill Motion 2		7921362					7921462			
Scan body SR	Ceramill Motion 2		792171					792171			
Screw SR	Ceramill Motion 2		7921381					7921481			

Accessories for all kits

792999 Insertion device for titanium basis SR, for all reanges

792998 Torque ratchet for insertion device

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TRAINING KNOW-HOW COURSES

The Ceramill Helpdesk: Targeted, effective help for CAD/CAM users

The Ceramill Helpdesk provides information and support from the putting into operation to the case related problem solving. A highly qualified team of dental technicians is ready to provide specific information and expert knowledge. Via phone or by desktop sharing via the Internet we are present in your laboratory and thus may offer an immediate solution that renders you productive within no time.

Ceramill Forum

The Ceramill Forum is an exchange medium for all Ceramill users – the forum is available around the clock and contains many valuable contents. The Forum is staffed by the AG trainers, so that expert contact partners are always at hand.

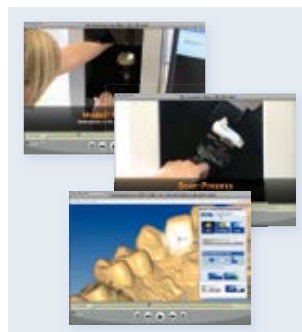


- _ Easy contact by ticket system - return call directly from specialists
- _ Practical support during the putting into operation
- _ Case-related problem solving
- _ Answering of questions via e-mail and phone
- _ Online support by desktop sharing - we demonstrate the next working steps on your screen
- _ Comprehensive information via Internet (www.ceramill-m-center.com)

CAD-CAM FORUM

Exchange of ideas between Ceramill users and tips and tricks from the CAD-CAM trainers:

www.ceramill-m-center.com/de/service/cad-cam-forum/



Video tutorials on
www.ceramill-m-center.com



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the Ceramill Helpdesk



Live support on your PC



Know the technique - master the manual skills

State-of-the-art technologies, growing expectations of patients and not least global competition step up the pace in our business sector as well. For those who want to meet the demands of the market in the long run, it is vital to be flexible and stay at the cutting edge of technology.

The entry into the digital age has also been accompanied by wide-ranging changes to training requirements and we have addressed these changes.

"Webinar" is the keyword for an efficient learning method for CAD-CAM courses that not only save you an enormous amount of effort but are mainly held on the medium which is used for working procedures. A mixture of demonstrations, training videos, live streaming and individual consultation enable you to use the system immediately after 2-3 hours.

Our contact persons are available if you have any questions or would like to register. They ensure a smooth procedure and that you can fully concentrate on your training at our locations in Germany and Austria or in the "AG training center Middle East" in Beirut (Lebanon).



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Intern. course organization



Silja Vielsack
Intern. course organization



Université Antonine

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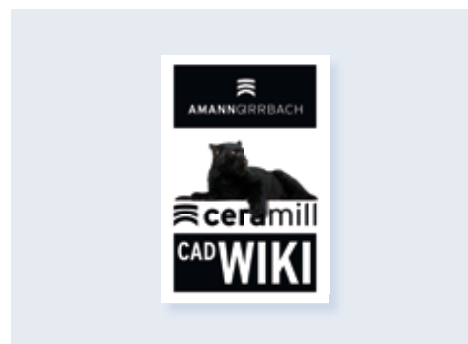
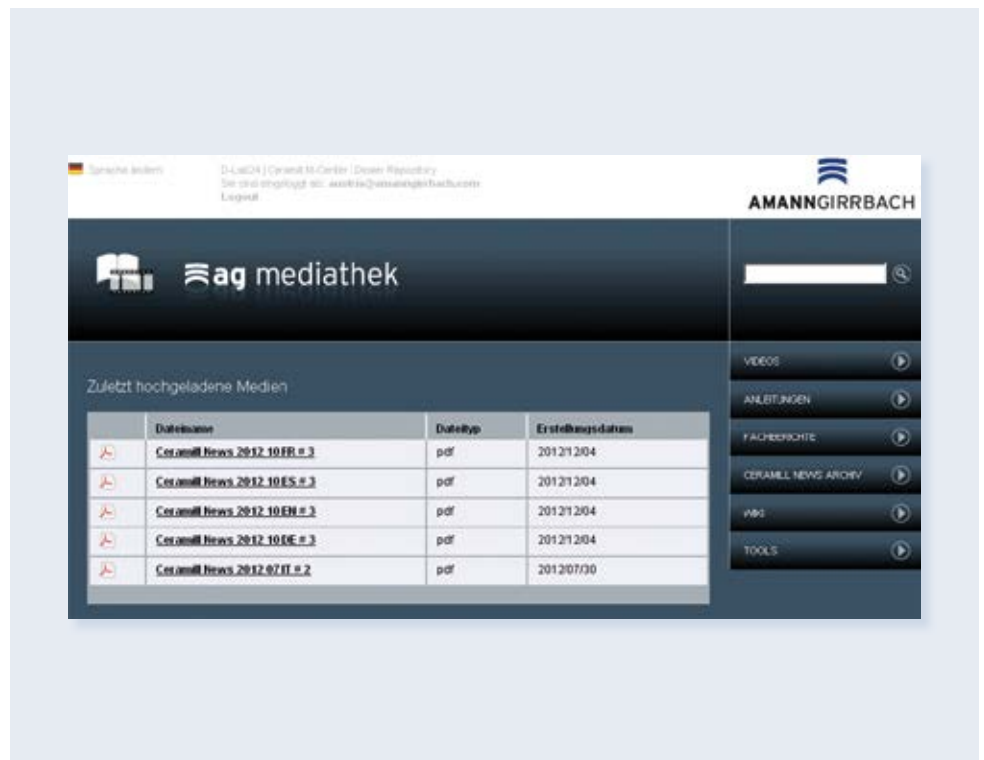
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The virtual font of knowledge from Amann Girschbach.

The AG Media Library is a digital archive with a concentrated store of dental knowledge from the contents of the old Ceramill M-Center website, D-Lab24 and the download area of the AG homepage.

All the valuable knowledge of the dental branch collected over the years can be easily and concisely retrieved from the library - whether print or video instructions on software, hardware, specialist reports, studies, Wikis, user cases etc.



...the Ceramill CAD Wiki and much more



The AG Media Library is available around the clock with videos and application tutorials...



...specialist reports, studies...

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Amann Girrbach Products can only be acquired outside of Germany and Austria from our authorised dealers

You can find a specialist dealer in your area through our world-wide network of Amann Girrbach dealers.

If you do not have an active Internet access or if you cannot find a dealer in your area, please contact our export department at the Amann Girrbach headquarters in Koblach, Austria:

INFOLINE

Dealer directory:

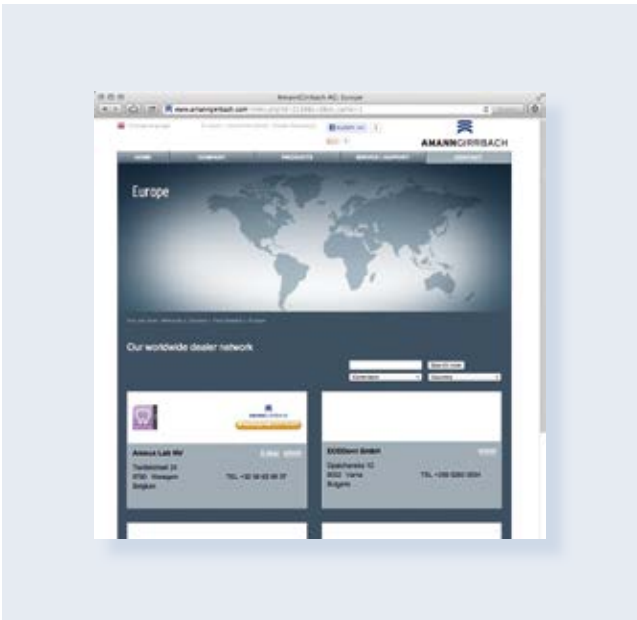
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Amann Girrbach Headquarter:

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If you cannot find your service company, please contact our in-house technical service department:

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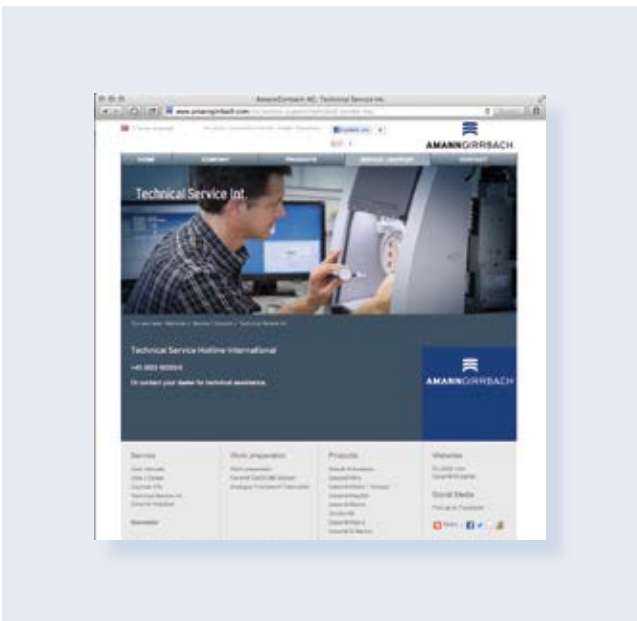
Technical Service/Servicepartner:

Hr. Jürgen Nachbaur

Fon: +43 5523 62333-207

juergen.nachbaur@amannqirrbach.com

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Information days are being held in certified laboratories worldwide. They are among the leading dental laboratories in their region in terms of size, quality, equipment and innovative capability.

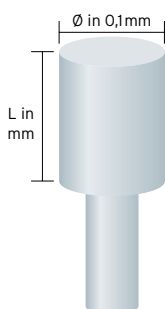
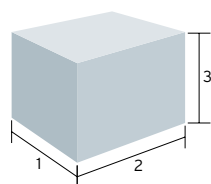
Exchange of experiences between colleagues - this describes the service provided by the new Amann Girrbach Live Labs.

Registrations and current dates are available from your dealer or you can find a current list of all AG Live Labs at www.amanngirrbach.com

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 = Ø, 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.



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