IMPLANT PROSTHETICS

All Components From A Single Source
WE ASSUME THE RESPONSIBILITY

UP TO 30 YEARS WARRANTY ON IMPLANT ABUTMENTS AND IMPLANTS

For the manufacture of our implant-supported components, we use high-quality titanium Grade 5 (ASTM F136; DIN EN ISO 5832-2). As one of the world’s largest manufacturers, we meet the strictest quality criteria (ISO 13485 CMDCAS). We assume the responsibility for our products and grant therefore, in addition to the legally prescribed warranty obligation, voluntarily up to 30 years warranty on all Zirkonzahn implant abutments used (titanium bases, Multi Unit Abutments, Multi Unit Abutments Angled, Raw-Abutments® as well as the corresponding screws). Within the current Zirkonzahn warranty regulation, we explicitly include in our warranty also implants from other manufacturers used with Zirkonzahn implant abutments.

The Zirkonzahn warranty regulation can be viewed at www.zirkonzahn.com.
EVERYTHING FROM A SINGLE SOURCE

Especially when manufacturing implant restorations it is important to optimally adjust components to one another. From the software for planning the position of the implant, to analogues for capturing already placed implants, titanium bases and Multi Unit Abutments or blanks with a pre-milled implant connection: we produce and develop everything on our own. All components are available for all common implant systems and are fully integrated in our Zirkonzahn.Software. With the Zirkonzahn Library Download Center also 3shape and exocad® users can implement the libraries into their modelling software.
### ABUTMENTS FOR ALL COMMON IMPLANT SYSTEMS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEGO Semados® Mini</td>
<td>BEGO Semados® S/RS/SC/RS/ RSX-Line / MultiPlus System</td>
<td>BioHorizons® External</td>
<td>BioHorizons® Internal</td>
<td>BioHorizons® Multi-unit Abutment</td>
<td>Biomet 3i™ Certain® Implant System</td>
<td>Biomet 3i™ External Connection Implant System (OSSEOTITE®)</td>
<td>Biomet 3i™ Low Profile Abutment</td>
</tr>
<tr>
<td>Biotech Dental KONTACT</td>
<td>BrainBase Corporation MYTIS Arrow Implant</td>
<td>Bredent SKY® Classic / blueSKY</td>
<td>Bredent SKY® fast &amp; fixed</td>
<td>Bredent SKY® uni.cone</td>
<td>BTi® Conical Spacer</td>
<td>BTi® Externa®</td>
<td>BTi® Interna®</td>
</tr>
<tr>
<td>BTi® Multi-Im®</td>
<td>BTi® Multi-Im® Angled®</td>
<td>BTi® Tiny®</td>
<td>CAMLOG® Bar Abutments (COMFOUR®)</td>
<td>CAMLOG® CONELOG®</td>
<td>CAMLOG® J-Line/K-Line</td>
<td>CAMLOG® VARIO SR</td>
<td>Champions® Implants (R)Evolution</td>
</tr>
<tr>
<td>Conmet® Hex</td>
<td>Connect®</td>
<td>Cowellmedi INNO Internal Implant System™</td>
<td>Cummente</td>
<td>Dentalpoint AG Zeramex® P6</td>
<td>DentalTech ImpLassic®</td>
<td>DentalTech ImpLassic®/Implogic®</td>
<td>Dentium Implantium / SuperLine</td>
</tr>
<tr>
<td>Dentium Screw Abutment</td>
<td>Dentsply Sirona® Ankylös® (Friadent) / Balance Base Abutment Narrow</td>
<td>Dentsply Sirona® XIVE® MP/TG</td>
<td>Dentsply Sirona® XIVE®/Friallit</td>
<td>Dyna Dental® Octalock/Helix</td>
<td>FairImplant FairTwo™</td>
<td>GC Tech. Aadva™</td>
<td>Implant Direct™ Legacy™</td>
</tr>
<tr>
<td>Implant Direct™ Overdenture Abutment</td>
<td>Intra-Lock® International Internal Implants</td>
<td>Intra-Lock® International Unihex™</td>
<td>K3Pro® Mini Konus/Standard</td>
<td>Klockner® Essential® Cone</td>
<td>Klockner® NK2/3K2</td>
<td>MEDENTiKA® MedentiBASE®</td>
<td>MEDENTiKA® M-Implant</td>
</tr>
<tr>
<td>Medentis medical ICX®-templant</td>
<td>Medentis medical ICX-multi®-Konzept</td>
<td>Megagen AnyOne®</td>
<td>Megagen AnyRidge®</td>
<td>MIS® C1</td>
<td>MIS® Multi Unit Abutment</td>
<td>MIS® Multi Unit System</td>
<td>MIS® SEVEN</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------</td>
<td>----------------</td>
<td>----------------</td>
<td>--------</td>
<td>----------------------</td>
<td>-----------------------</td>
<td>------------</td>
</tr>
<tr>
<td>MIS® V3</td>
<td>Mozo-Grau® Tapered Screw®</td>
<td>Neo Biotech IS</td>
<td>Neoss® ProActive®</td>
<td>Nobel Biocare® Bränemark System® M3/3/5/5/7/6/8</td>
<td>Nobel Biocare® NobelActive®/NobelReplace® CC/Nobel Parallel CC</td>
<td>Nobel Biocare® NobelReplace®/NobelSpeedy® Select Tapered/NobelSpeedy®</td>
<td></td>
</tr>
<tr>
<td>Nobel Biocare® NobelZygoma</td>
<td>OSSTEM Implant Convertible Abutment</td>
<td>OSSTEM Implant GS/TS</td>
<td>OSSTEM Implant GS/TS Multi Abutment</td>
<td>OSSTEM Implant US</td>
<td>Paltop® Conical Active</td>
<td>Paltop® Internal HEX Connection</td>
<td>PHIBO® Oneplant</td>
</tr>
<tr>
<td>SiC® invent SiCace®</td>
<td>Southern Implants® Deep Conical</td>
<td>Southern Implants® Internal Hex</td>
<td>Southern Implants® IT Connection</td>
<td>Straumann® Bone Level®</td>
<td>Straumann® Multibase Abutment</td>
<td>Straumann® Screw-Retained Abutment</td>
<td>Straumann® Tissue Level (Standard Plus Narrow Neck CrossFit® / SynOcta®)</td>
</tr>
<tr>
<td>Sweden &amp; Martina Outlink2</td>
<td>Sweden &amp; Martina P.A.D® Multi Unit Abutment</td>
<td>Sweden &amp; Martina Premium Kohno®</td>
<td>Tekka® In-Kone®</td>
<td>Thommen Medical SPI®</td>
<td>Thommen Medical SPI® VARImulti</td>
<td>Warantec Oneplant</td>
<td>Zimmer Dental® Tapered Screw-Vent®</td>
</tr>
<tr>
<td>Zimmer Dental® Tapered Screw-Vent® Multi Unit Abutment</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

The system library is expanded continuously. An overview of all systems stored in the software and information regarding the torques are available at www.zirkonzahn.com/implant-systems or by telephone (+39 0474 066 680).
The laboratory analogues made from ASTM-approved titanium Grade 5 replicate the exact position and connection to the implant. This allows to check the fitting accuracy of the final restoration with implant abutments directly on the model. To distinguish the different diameters, the analogues are also available pre-coloured.
HEALING CAPS

Healing caps are used during the healing phase to seal the implant and to define the emergence profile. They can be anodised in different colours or are available already anodised in golden or pink.
The stable impression copings are used together with the laboratory analogues for the exact transfer of the implant position in the jaw onto the plaster model or combined with ScanAnalogs in the software.
SCANANALOGS

The ScanAnalogs unite the function of a laboratory analogue with the one of a scanmarker. In contrast to the conventional scanmarker, however, the ScanAnalogs scan directly the impression, not the model. The ScanAnalogs are screwed onto the traditional impression copings in the impression and digitised with the Zirkonzahn scanner. The captured implant position can be directly transferred into the software without a plaster model. Physical models can then be produced from the acquired data (CAD/CAM Model Maker software module). In their role as laboratory analogues they replicate the exact position and orientation of the implants on the model.
SCANMARKERS

Thanks to the extremely precise geometry of the Scanmarkers and with the aid of the Zirkonzahn scanners, it is possible to transfer the exact position and orientation of the implants from the model into the software.
The White Scanmarkers are used for scans to capture the position and orientation of the implant. The white surface of the scanbody is not reflective, therefore the White Scanmarkers are especially suitable for the application in the patient’s mouth. Since the geometry of the White Scanmarkers is held extremely small, scans are also possible with implants that are positioned very deeply or closely together. White Scanmarkers can also be used as Scanmarkers on the plaster model.
The use of titanium bases reduces the effect of transverse forces on the restoration, in contrast to restorations screwed directly on the implant. We generally recommend the use of titanium bases for all screw-retained implant structures, particularly though for those in the anterior tooth region.

Except for the Narrow titanium bases, the Zirkonzahn titanium bases are available in up to five different platform heights, in order to bring the implant to the desired gingival level. Due to their narrow geometry, the Narrow titanium bases are particularly suitable for use in the anterior tooth sector.
GOLD-PLATED AND ANODISED

All Zirkonzahn titanium bases are available with a high quality gold plating. The gold coating increases the biocompatibility and the golden shade reduces the grey value of the entire restoration.

Moreover, the titanium bases can also be anodised in different colours using the Zirkonzahn Titanium Spectral-Colouring Anodizer. The high biocompatibility of the material remains unchanged.
CONICAL CEMENTED TITANIUM BASE NON HEX

The Conical Cemented Titanium Bases NON HEX without anti-rotation device are ideal for the manufacturing of bridges and multi-unit restorations. The titanium bases are designed as short and conical as possible. Spiral grooves located on the surface increase the contact area and ensure optimum adhesion of the cement.

For multi-unit restorations

Conical shape with spiral grooves

Also available gold-plated for increased biocompatibility and reduced grey values

Without anti-rotation device

Available in different heights
PARALLEL CEMENTED TITANIUM BASE HEX

The Parallel Cemented Titanium Bases HEX are equipped with the required anti-rotation device depending on the implant system. This ensures that restorations can no longer be twisted once they are cemented. They are especially suitable for single crowns.

For single crowns

Parallel shaft

Also available gold-plated for increased biocompatibility and reduced grey values

With anti-rotation device

Available in different heights
NARROW TITANIUM BASE

The Narrow Titanium Bases are especially advantageous for implants on bone level, since their platform diameter is minimised. This helps to prevent bone atrophy. Thanks to their reduced gingiva height, their metal structure is not visible under the restoration, even if the gingival level is very low or in case of gingival atrophy. They are especially suitable for implants placed closely in the anterior sector where little space is available.
NARROW TITANIUM BASE NON HEX

Thanks to their reduced geometry, the Narrow Titanium Bases NON HEX without anti-rotation device are perfectly suitable for multi-unit restorations on implants placed very closely.

For multi-unit restorations

Conical shape with spiral grooves

Also available gold-plated for increased biocompatibility and reduced grey values

Without anti-rotation device
NARROW TITANIUM BASE HEX

The Narrow Titanium Bases HEX with anti-rotation device are characterised by their reduced geometry and therefore a perfect solution for single crowns placed next to each other in the anterior tooth region where little space is available.

For single crowns

Parallel shaft

Also available gold-plated for increased biocompatibility and reduced grey values

With anti-rotation device
The Raw-Abutments® made from ASTM-approved titanium Grade 5 are used for the production of individual abutments. The industrially prefabricated implant connection guarantees highest precision and fitting accuracy. The special milling strategies and milling burs ensure a particularly smooth surface structure. The abutment geometry is freely and individually customisable. Depending on the implant system, different Raw-Abutment® blanks are required.

For single crowns

With anti-rotation device

Available with 10 mm and 14 mm diameter

Can be anodised in different colours with the Titanium Spectral-Colouring Anodizer
SOFTWARE OVERVIEW
TITANIUM BASES
CAPTURE
MULTI UNIT ABUTMENTS
ACCESSORIES
OVERVIEW
SOFTWARE
25
The Zirkonzahn Multi Unit Abutments and Multi Unit Abutments Angled are especially suited for multi-unit restorations. Due to the fact that they are adapted to different implant systems and their connections for the secondary structure are unified, the secondary structure can be screwed directly, or with additional titanium bases, on different implants without any problems. A further advantage of the standardised connection is that using these abutments, also other components (e.g. titanium bases, Scanmarkers, etc.) are reduced to one connection and divergences can be compensated.
Restoration fixed on two Multi Unit Abutments and two Multi Unit Abutments 17° which allow to compensate the implants’ diverging axes.
FOR MULTI-UNIT RESTORATIONS

NON HEX

Conical Cemented Titanium Base NON HEX + Abutment Screw Metal

Multi Unit Abutment NON HEX + Abutment Screw Metal

Implant

FOR SINGLE CROWNS

HEX

Narrow Titanium Base HEX Six Position + Abutment Screw Metal

Narrow Titanium Base HEX One Position + Abutment Screw Metal

Multi Unit Abutment 17° HEX + Implant Screw + Insertion Tool

Implant
COMMON COMPONENTS

- Impression Coping
- Healing Cap Pink; anodised
- Scanmarker + Abutment Screw Metal
- White Scanmarker + Abutment Screw Metal
- Laboratory Analogue
- ScanAnalogue

TOOLS

- Screwdriver 0.05" short
- Torque Ratchet Wrench
- Screwdriver 0.05" medium
- Screw Driver Zirkonzahn MUA
- Screwdriver 0.05" long
The Multi Unit Abutments NON HEX without anti-rotation device are suited for multi-unit restorations. They are designed in one piece to prevent the ingress of bacteria. The application of the Multi Unit Abutments NON HEX is extremely easy, because all types of implants have been adapted on a standard port. They are available in five different gingival heights to offer the best possible solution for every case.
ZIRKONZAHN MULTI UNIT ABUTMENT ANGLED HEX

The Zirkonzahn Multi Unit Abutments Angled are available with a 17° angle and two differently angled hex-implant connections to compensate any inclinations of the implants. They can be used for single and multi-unit restorations.

For single crowns and multi-unit restorations

Conical Cemented Titanium Base, Parallel Cemented Titanium Base and Parallel Cemented Titanium Base One Position as components of the Multi Unit Abutment Angled HEX. The One Position titanium bases are used to screw single crowns on Multi Unit Abutments 17° with anti-rotation device

With anti-rotation device

Also available gold-plated for increased biocompatibility and reduced grey values

Available in different heights
Depending on the position of the implant, with the two different connection types (1 and 2) the number of connection possibilities has doubled.

**Hex connection Type 1**

- Side view
- Top view

**Hex connection Type 2**

- Side view
- Top view

The MUA can be positioned on every 60° of a HEX connection.

Having the possibility to choose between two different connection types, the MUA can be positioned on every 30° of a HEX connection.
ABUTMENT SCREW METAL

This abutment screw is suitable to fix titanium bases, Scanmarkers and Raw-Abutments®, but not zirconia structures.

For titanium bases, Scanmarkers and metal structures with direct connection, not for zirconia abutments

With conical or flat screw head

Available gold-plated for increased biocompatibility; gold-plating prevents cold welding as well as the unintended loosening of the screw

Abutment Screw Black: Screw for the final restoration in the patient’s mouth

Abutment Screw Laboratory: Provisional screw for fixing the structure on the model
ABUTMENT SCREW ZIRCONIA

This abutment screw with flat screw head is ideal for directly screwed zirconia or resin structures. However, we generally recommend the use of titanium bases for all implant-supported restorations.

For individual abutments made from zirconia and resin

With flat screw head

Available gold-plated for increased biocompatibility; gold-plating prevents cold welding as well as the unintended loosening of the screw

Abutment Screw Black: Screw for the final restoration in the patient’s mouth

Abutment Screw Laboratory: Provisional screw for fixing the structure on the model
Titanium bases, Raw-Abutments® and Scanmarkers can be fixed onto the implant using the Abutment Screw Metal. On full-contour zirconia abutments, screws with flat seating must be used, in order to avoid tensions in the zirconia which, in the worst case, can lead to cracks in the abutment.

**ABUTMENT SCREW METAL**

*The screw head can be conical or flat, depending on the implant system*

**ABUTMENT SCREW ZIRCONIA**

*Only with flat screw head for monolithic zirconia and resin*
TOOLS

- Torque Ratchet Wrench
- Screwdriver Zirkonzahn MUA
- Screwdriver 0.05" short
- Screwdriver 0.05" medium
- Screwdriver 0.05" long
- Universal Extractor 1.6 – 1.9
- Universal Extractor 2.0 – 2.4
- Sealing Screw Extractor
SOFTWARE OVERVIEW

TITANIUM BASES

CAPTURE ACCESSORIES

RAW-ABUTMENTS®

MULTI UNIT ABUTMENTS

RAW-ABUTMENTS®

TITANIUM BASES

CAPTURE

Titanium Base Extractor Biotech® 3,0-5,4

Titanium Base Extractor Camlog® Conelog® 3,3-4,3

Titanium Base Extractor Camlog® Conelog® 5,0

Titanium Base Extractor Dentsply Sirona Ankylos 3,5-7,0

Titanium Base Extractor K3® 2 mm

Titanium Base Extractor K3® 3 mm

Titanium Base Extractor NobelActive NP

Titanium Base Extractor NobelActive RP/WP

Titanium Base Extractor Tekka® In-Kone®
Abutments and laboratory analogues or implants are fitted on the master model or in the patient’s mouth and then screwed. If the abutment is fixed on an implant with a flat-angled connection, a frictional connection is created. In the conventional manual way, the two components cannot be separated from each other without sustaining some damage. By using the Titanium Base Extractor this is possible without overstressing the osseointegrated parts.

The Titanium Base Extractor is screwed into the internal thread of the abutment ...

... until the bottom of the implant is reached.

A further screwing ...

... ensures a gentle removal of the abutment from the implant or laboratory analogue.
UNIVERSAL EXTRACTOR

The Universal Extractor is used to remove directly screwed secondary structures (e.g. made of metal or resin) as well as titanium bases without internal threads from implants with flat-angle connection geometries.
SCREWDRIVER ZIRKONZAHN

The screwdrivers are used in combination with the Torque Ratchet Wrench torque wrench to fix the titanium bases and MUAs. The screwdrivers are available in different sizes.
The Sealing Screw Extractor can be used to loosen sealing screws out of zirconia structures without damaging the threaded screw channel.
**AVAILABLE SETS**

<table>
<thead>
<tr>
<th>ANALOGUES</th>
<th>SCANMARKER</th>
<th>RAW-ABUTMENTS®</th>
<th>TITANIUM BASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Analogue</td>
<td>Scanmarker + Abutment</td>
<td>Raw-Abutment® HEX + Abutment Screw Metal</td>
<td>Narrow Titanium Base HEX + Abutment Screw Metal</td>
</tr>
<tr>
<td></td>
<td>Screw Metal</td>
<td></td>
<td>Narrow Titanium Base HEX Gold + Abutment Screw Metal Gold</td>
</tr>
<tr>
<td>LOC-Connector</td>
<td>White Scanmarker + Abutment</td>
<td>Raw-Abutment® D14 HEX + Abutment Screw Metal</td>
<td>Parallel Cemented Titanium Base HEX + Abutment Screw Metal</td>
</tr>
<tr>
<td></td>
<td>Screw Metal</td>
<td></td>
<td>Conical Cemented Titanium Base NON HEX Gold + Abutment Screw Metal Gold</td>
</tr>
<tr>
<td>ScanAnalog</td>
<td></td>
<td>Narrow Titanium Base NON HEX + Abutment Screw Metal</td>
<td>Conical Cemented Titanium Base NON HEX Gold + Abutment Screw Metal Gold</td>
</tr>
</tbody>
</table>

44
<table>
<thead>
<tr>
<th>SCREWS</th>
<th>TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abutment Screw Metal</td>
<td>Screwdriver</td>
</tr>
<tr>
<td>Abutment Screw Metal Gold</td>
<td>Torque Ratchet Wrench</td>
</tr>
<tr>
<td>Abutment Screw Metal Laboratory</td>
<td>Universal Extractor or Titanium Base Extractor</td>
</tr>
<tr>
<td>Abutment Screw Zirconia</td>
<td></td>
</tr>
<tr>
<td>Abutment Screw Zirconia Gold</td>
<td></td>
</tr>
<tr>
<td>Abutment Screw Zirconia Laboratory</td>
<td></td>
</tr>
<tr>
<td>Abutment Screw Zirconia Black</td>
<td></td>
</tr>
<tr>
<td>Sealing Screw Extractor</td>
<td></td>
</tr>
</tbody>
</table>

SOFTWARE OVERVIEW
TITANIUM BASES
CAPTURE
RAW ABUTMENTS
MULTI UNIT ABUTMENTS
ACCESSORIES
OVERVIEW
## AVAILABLE SETS ZIRKONZAHN MUA

<table>
<thead>
<tr>
<th>ANALOGUES</th>
<th>SCANMARKER</th>
<th>TRANSFER</th>
<th>HEALING CAPS</th>
<th>MULTI UNIT ABUTMENT</th>
<th>TITANIUM BASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Analogue</td>
<td>Scanmarker + Abutment Screw Metal</td>
<td>Impression Coping</td>
<td>Healing Cap Grey; anodisable</td>
<td>Multi Unit Abutment NON HEX Gold + Abutment Screw Metal</td>
<td>Conical Cemented Titanium Base NON HEX + Abutment Screw Metal</td>
</tr>
<tr>
<td>White Scanmarker + Abutment Screw Metal</td>
<td></td>
<td></td>
<td>Healing Cap Golden; anodised</td>
<td>Multi Unit Abutment 17° HEX Gold + Implant Screw + Insertion Tool</td>
<td>Narrow Titanium Base HEX + Abutment Screw Metal</td>
</tr>
<tr>
<td>ScanAnalog</td>
<td></td>
<td></td>
<td>Healing Cap Pink; anodised</td>
<td>Multi Unit Abutment 17° HEX Gold + Implant Screw Gold + Insertion Tool</td>
<td>Narrow Titanium Base HEX One Position + Abutment Screw Metal</td>
</tr>
<tr>
<td>TITANIUM BASES</td>
<td>SCREWS</td>
<td>TOOLS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>---------------------------------------------</td>
<td>----------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conical Cemented Titanium Base NON HEX Gold +</td>
<td>Abutment Screw Metal Gold</td>
<td>Screw Driver Zirkonzahn MUA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abutment Screw Metal Gold</td>
<td></td>
<td>Screwdriver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Narrow Titanium Base HEX Gold + Abutment Screw</td>
<td>Abutment Screw Zirconia Gold</td>
<td>Torque Ratchet Wrench</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw Metal Gold</td>
<td>Abutment Screw Zirconia Laboratory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Narrow Titanium Base HEX One Position Gold +</td>
<td>Abutment Screw Zirconia Black</td>
<td>Titanium Base Extractor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abutment Screw Metal Gold</td>
<td>Abutment Screw Zirconia Laboratory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implant Screw</td>
<td>Implant Screw Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implant Screw Gold</td>
<td>Implant Screw Laboratory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implant Screw Laboratory</td>
<td>Implant Screw Black</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sealing Screw Extractor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
When developing the Zirkonzahn.Software we adapted the strict quality standards of our proven products to our software’s design and functionality. The user’s interface is clearly structured, has a simple design and is the same for each software component, which makes it the cornerstone for a familiar and reliable application. When it comes to the creation of different features, our developing team, which obviously includes also dental technicians, follows a practical and result-oriented principle, which guarantees the greatest possible freedom of choice and processing. Furthermore, complex technological processes are designed in a comprehensive and transparent way. The different software programmes with the corresponding modules are not only matched to each other but also to the related hardware components. This ensures a 100% smooth work process for the dental technician and the dentist – from the patient registration, articulation, modellation, realisation, to the insertion of the restoration in the patient’s mouth. Proven manual and digital working techniques are combined in order to achieve the best possible patient care.
ZIRKONZAHN.Implant-Planner

- 3D implant planning software on the basis of matched patient data (DICOM data, model scans and 3D facial scans etc.)
- Compatible with DICOM data of any CT and Cone Beam device
- Easy to use interface
- The software allows the import of any optical pre-operative scanning file, from intraoral or lab scanners
- Includes virtual implant libraries of the most common implant systems
- Open interface for exporting all planning data
- Safe and secure data exchange between the dentist and dental technician

ZIRKONZAHN Library Download Center

- Zirkonzahn implant components for exocad® and 3shape users
- Free programme to import and manage all of Zirkonzahn’s implant components (laboratory analogues, Scanmarkers, White Scanmarkers, titanium bases, MUAs) in the 3shape or exocad® modelling software
- Fast download: Implant libraries can be downloaded individually
- Always up to date: automatic update information for newly available systems or system components
THE CAD/CAM MODEL MAKER SOFTWARE MODULE

- Module for the manufacture of different physical models (e.g. Geller models, models with implant analogues, dies, full-arch bridges) based on intraoral scan data as well as impression scans and model scans
- Articulating scan data with different kinds of connections (e.g. special positioning plates for split-cast system or mini articulators)
- Automatic alignment of the scan data in occlusion
- Customised setting of the parameters (distance between model and die, model thickness etc.)
- Automatic margin and undercut identification (ditching)
- Exportable data for manufacturing models with 3D printers

THE CAD/CAM OCCLUSALLY SCREWED BRIDGES SOFTWARE MODULE

- Module for the creation of occlusally screwed bridges and bars with individual profiles
- Free shaping of the emergence profile, taking into account the anatomic tooth shape and gingiva
- With the help of the scanbodies, the software calculates the alignment of the already included implants and uses it for the exact alignment of the screw channels
- New! Creation of threaded screw channels in the zirconia structure for sealing the restoration with resin screw plugs
- Attention – only works in combination with the CAD/CAM Occlusally Abutments software module
THE CAD/CAM ABUTMENTS SOFTWARE MODULE

- Module for the manufacture of individualised abutments and their emergence profile
- Creates abutments by taking into account the secondary construction
- Adjustable parameters: distance to secondary construction, shrinkage, etc.
- Semi-transparent display of the outer tooth form, which makes the creation of abutments much easier
- Supports a variety of implant systems stored free of charge, that can be constructed either as directly screwed or as bonded titanium bases
- Implant positions that have been defined in the Zirkonzahn Implant-Planner software can be imported via Scanmarkers and can be used for the production of the model and the provisional (for immediate loading)
- Attention – only works in combination with the CAD/CAM Occlusally Screwed Bridges software module

THE CAD/CAM BARS SOFTWARE MODULE

- Module for the individual manufacture of primary and hybrid bars (also implant-supported)
- Freely customisable emergence profile
- Semi-transparent display of the outer tooth form or separate situation scans, this greatly facilitates the manufacture of bars
- Different types of bars which can easily be modified
- Adjustable parameters: Height, thickness, lingual and buccal angle, minimum size and thickness as well as many other individualisation options
- Fixing of attachments and retentions is possible as well as blanking out holes and anchorages
SOFTWARE APPLICATION

Our software supports more than 100 implant systems and always designs the bars in relation to the secondary structure. The two software modules “Bars” and “Occlusally Screwed Bridges” complement each other impeccably, giving technicians extensive operational freedom. Any kind of restoration from single crowns to 14-unit occlusally screw-retained full-contour zirconia bridges – everything can be manufactured with the Zirkonzahn CAD/CAM system in one’s own laboratory.

EXAMPLE: MODELLING A PRETTAU® BRIDGE WITH CEMENTED TITANIUM BAR ON SIX IMPLANTS

Creation of the patient case in the Zirkonzahn.Archiv software.

After selecting the kind of restoration, all suitable materials and appropriate parameters for the realisation of the restoration will be displayed.
The master model including the attached scanmarkers is scanned with the S600 ARTI scanner and then transferred into the Zirkonzahn.Scan software.

The virtual model is automatically uploaded into the Zirkonzahn.Modellier modelling software.

At this point, the implant system and, if required, the titanium bases can be selected.

In order to identify the emergence profiles, four points on the margins of the implants have to be defined according to a predefined sequence.
If desired, the bar can now be smoothed or occlusally modified.

Creation of the emergence profile.

The bar is brought in the right position. The posts and the parameters of the bar can be individually defined.
In this working step, the modellation is matched and can be loaded into the Zirkonzahn.Nesting software.

Milled titanium bar in the material blank.

In order to reduce the grey value of the titanium, the parallelised bar is gold-plated by means of the Titanium Spectral-Colouring Anodizer.
For the adaptation of the wax-up to the bar, the patient case is once again saved in the Zirkonzahn.Archiv software.

Now, the bar is digitised by means of the S600 ARTI scanner and the Zirkonzahn.Scan software.

After the scanning process, the virtual model and the bar are automatically loaded into the Zirkonzahn.Modellier modelling software.

The preparation line for the wax-up is set on the bar.
Subsequently, the insertion direction for the secondary structure is set.

The scanned wax-up is automatically adapted to the bar and can then be freely modified, if necessary.

The wax-up adjusted to the bar.
The final modellation is laser-melted for a second free shaping.

In this working step the screw channels can be blanked with the "attachment" function.

Now, the finished wax-up can be loaded into the Zirkonzahn Nesting software together with the blanked screw channels. Finally, the milling is carried out.