



Zirkonzahn®

## VARIETY OF IMPLANT-SUPPORTED COMPONENTS

*Everything 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 a high-quality medical titanium alloy (Ti-6Al-4V ELI according to ASTM F136 and DIN EN ISO 5832-3). As one of the world's largest manufacturers, we meet the strictest quality criteria (ISO 13485 MDSAP; Medical Device Directive 93/42/EEC). 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](http://www.zirkonzahn.com).

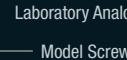
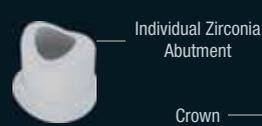
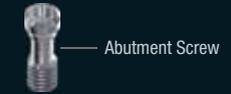
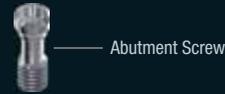
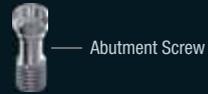
## EVERYTHING FROM A SINGLE SOURCE

*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 design software.*



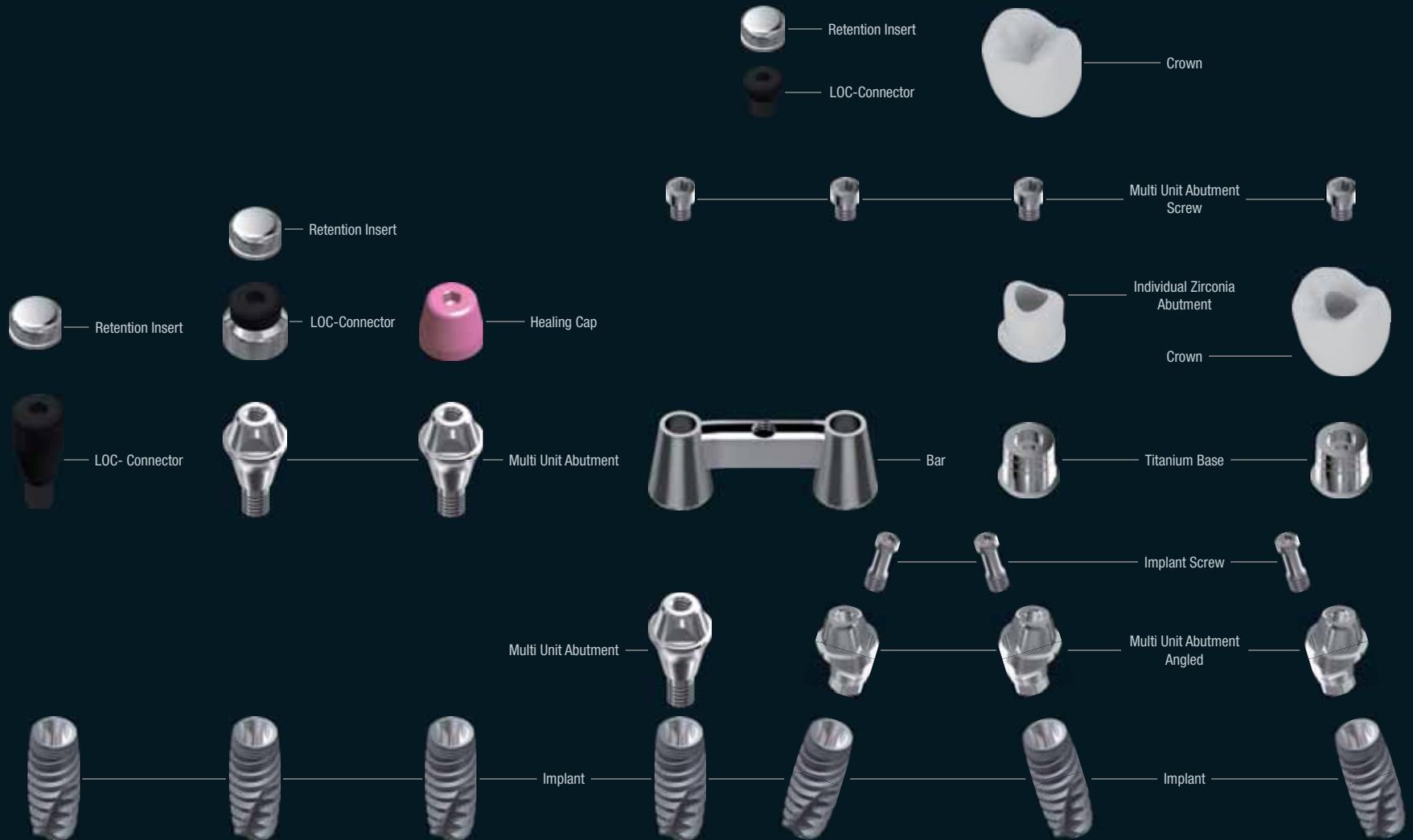


CAPTURE			TITANIUM BASES			RAW-ABUTMENTS®		
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LOC- CONNECTOR

MULTI UNIT ABUTMENTS



CAPTURE

TITANIUM BASES

RAW-ABUTMENTS®

MUA

LOC-CONNECTOR

TITANIUM POSTS

ACCESSORIES

OVERVIEW

SOFTWARE

# ABUTMENTS FOR ALL COMMON IMPLANT SYSTEMS

Zirkonzahn Multi Unit Abutments (ZZ MUA)	Alpha-Bio Tec® SPI/DFI/ATID	Anthogyr® Axiom®	ASTRA TECH Implant System EV/UniAbutment® EV	ASTRA TECH Implant System OsseoSpeed™	ASTRA TECH UniAbutment®	A-Z Implant® MC	A-Z Implant® VL
BEGO Semados® Mini	BEGO Semados® S/RI/SC/SCX/RS/RSX-Line / MultiPlus System	BioHorizons® External	BioHorizons® Internal	BioHorizons® Multi-unit Abutment	Biomet 3i™ Certain® Implant System	Biomet 3i™ External Connection Implant System (OSSEOTITE®)	Biomet 3i™ Low Profile Abutment
Biotech Dental KONTACT	BrainBase Corporation MYTIS Arrow Implant	Bredent SKY® Classic / blueSKY	Bredent SKY® fast & fixed	Bredent SKY® uni.cone	BTI® Conical Spacer	BTI® Externa®	BTI® Interna®
BTI® Multi-Im®	BTI® Multi-Im® Angled®	BTI® Tiny®	Btk the smile system® – BT-Klassik	Btk the smile system® – BT-Konic	Btk the smile system® – BT-Isykone	Btk the smile system® – BT-Safe	CAMLOG® Bar Abutments (COMFOUR®)
CAMLOG® CERALOG® Hexalobe	CAMLOG® CONELOG®	CAMLOG® J-Line/K-Line	CAMLOG® VARIO SR	Champions® Implants (R)Evolution	Conmet® Hex	Connect®	Cowellmedi INNO Internal Implant System™
Cumdente	Dentalpoint AG Zeramex® P6	Dentalpoint AG Zeramex® XT	Dental Ratio® OKTAGON® Bone Level	Dental Ratio® OKTAGON® Multi Units Abutment	Dental Ratio® OKTAGON® Tissue Level	DentalTech ImpLassic®	DentalTech ImpLassic®/Implogic®
Dentium Implantium / SuperLine	Dentium Screw Abutment	Dentsply Sirona® Ankylos® (Friadent) / Balance Base Abutment Narrow	Dentsply Sirona® XiVE® MP/TG	Dentsply Sirona® XiVE®/Frialit	Dyna Dental® Octalock/Helix	FairImplant FairTwo™	GC Tech. Aadva™

Implant Direct™ Legacy™	Implant Direct™ Overdenture Abutment	Intra-Lock® International FlatOne®	Intra-Lock® International Internal Implants	Intra-Lock® International Unihex™	K3Pro® Mini Konus/Standard	Klockner® Essential® Cone	Klockner® NK2/SK2
MEDENTIKA® MedentiBASE®	MEDENTIKA® M-Implant	Medentis medical ICX®-templant	Medentis medical ICX- multi®-Konzept	Megagen AnyOne®	Megagen AnyRidge®	Megagen ExFeel® External	Megagen ExFeel® Internal
MIS® C1	MIS® Multi Unit Abutment	MIS® Multi Unit System	MIS® SEVEN	MIS® V3	Moza-Grau® Tapered Screw®	Neo Biotech IS	Neoss® ProActive®
Nobel Biocare® Bränemark System® MkII/Shorty/ Groovy® / NobelSpeedy Shorty/Groovy®	Nobel Biocare® Multi-unit Abutment	Nobel Biocare® NobelActive®/ NobelReplace® CC/ Nobel Parallel CC	Nobel Biocare® NobelReplace®/ Replace Select Tapered/NobelSpeedy®	Nobel Biocare® NobelZygoma	OSSTEM Implant Convertible Abutment	OSSTEM Implant GS/TS	OSSTEM Implant GS/TS Multi Abutment
OSSTEM Implant US	Paltop® Conical Active	Paltop® Internal HEX Connection	PHIBO® TSA® Advance	SIC® invent SICace®	SGS Dental Conical Platform	Southern Implants® Deep Conical	Southern Implants® External Hex
Southern Implants® Internal Hex	Southern Implants® IT Connection	Straumann® Bone Level®	Straumann® Multibase Abutment	Straumann® Screw-Retained Abutment	Straumann® Tissue Level (Standard Plus Narrow Neck CrossFit® / SynOcta®)	Sweden & Martina Outlink2	Sweden & Martina P.A.D® Multi Unit Abutment
Sweden & Martina Prama	Sweden & Martina Premium Kohno®	Tekka® In-Kone®	Thommen Medical SPI®	Thommen Medical SPI® VARIOmulti	Warantec Oneplant	Zimmer Dental® Tapered Screw-Vent®	Zimmer Dental® Tapered Screw-Vent® Multi Unit Abutment
...	<p>The system library is expanded continuously. An overview of all systems stored in the software and information regarding the torques are available at <a href="http://www.zirkonzahn.com/implant-systems">www.zirkonzahn.com/implant-systems</a> or by telephone (+39 0474 066 680).</p>						

CAPTURE

TITANIUM BASES

RAW-ABUTMENTS®

MUA

LOC-CONNECTOR

TITANIUM POSTS

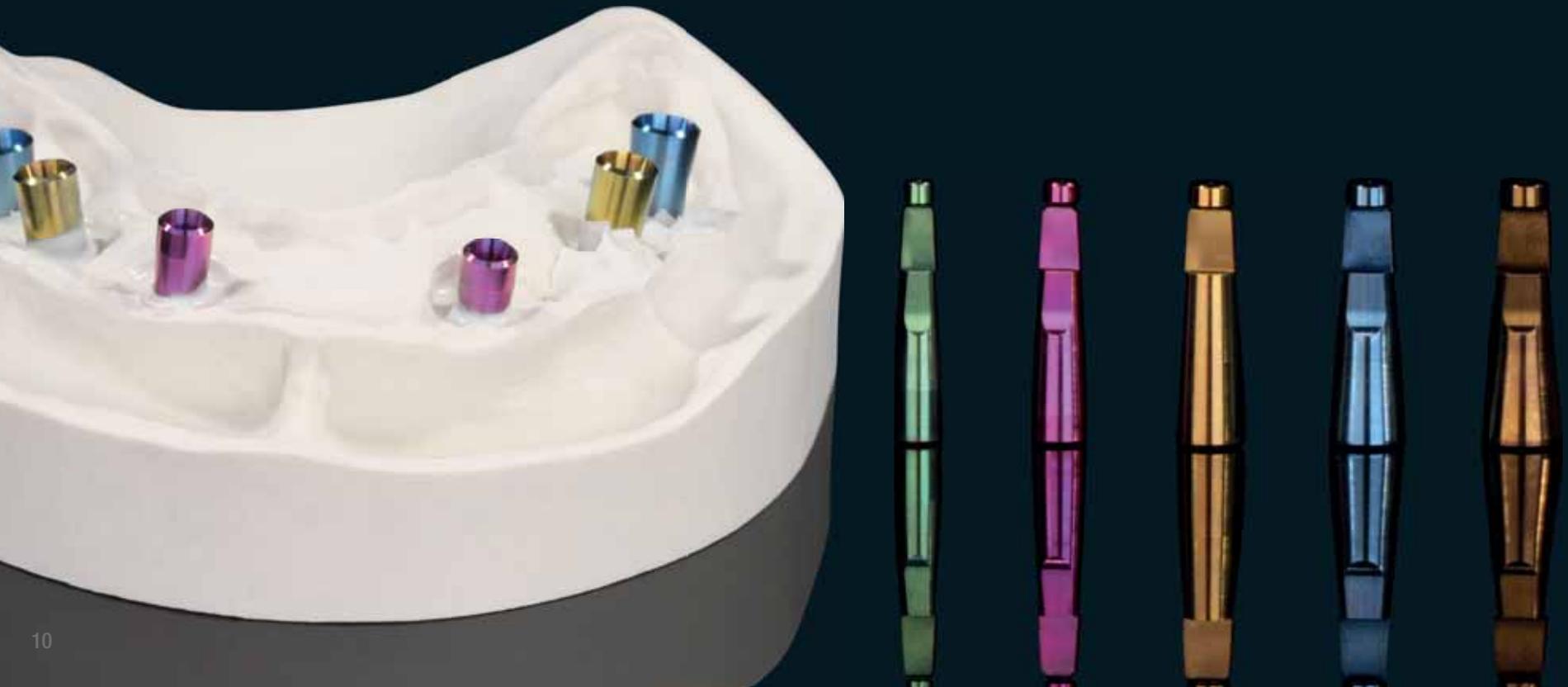
ACCESSORIES

OVERVIEW

SOFTWARE

## LABORATORY ANALOGUES

*The laboratory analogues made from a medical titanium alloy 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.*



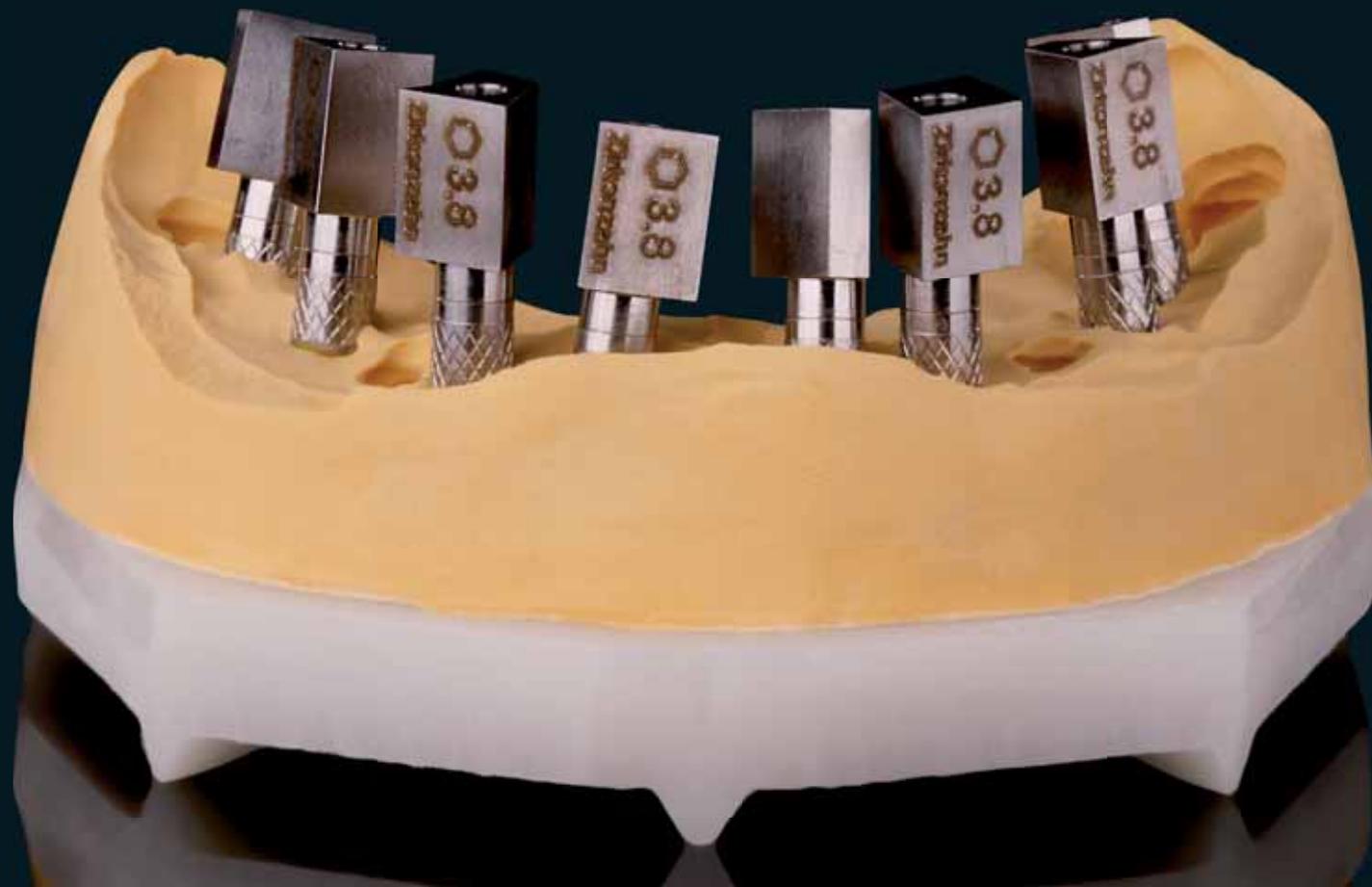
## SCANANALOGS

*The ScanAnalogs unite the function of a laboratory analogue with the one of a scanmarker. In contrast to the conventional scanmarker, however, the ScanAnalogs are scanned directly on 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 analogue they replicate the exact position and orientation of the implants on the model.*



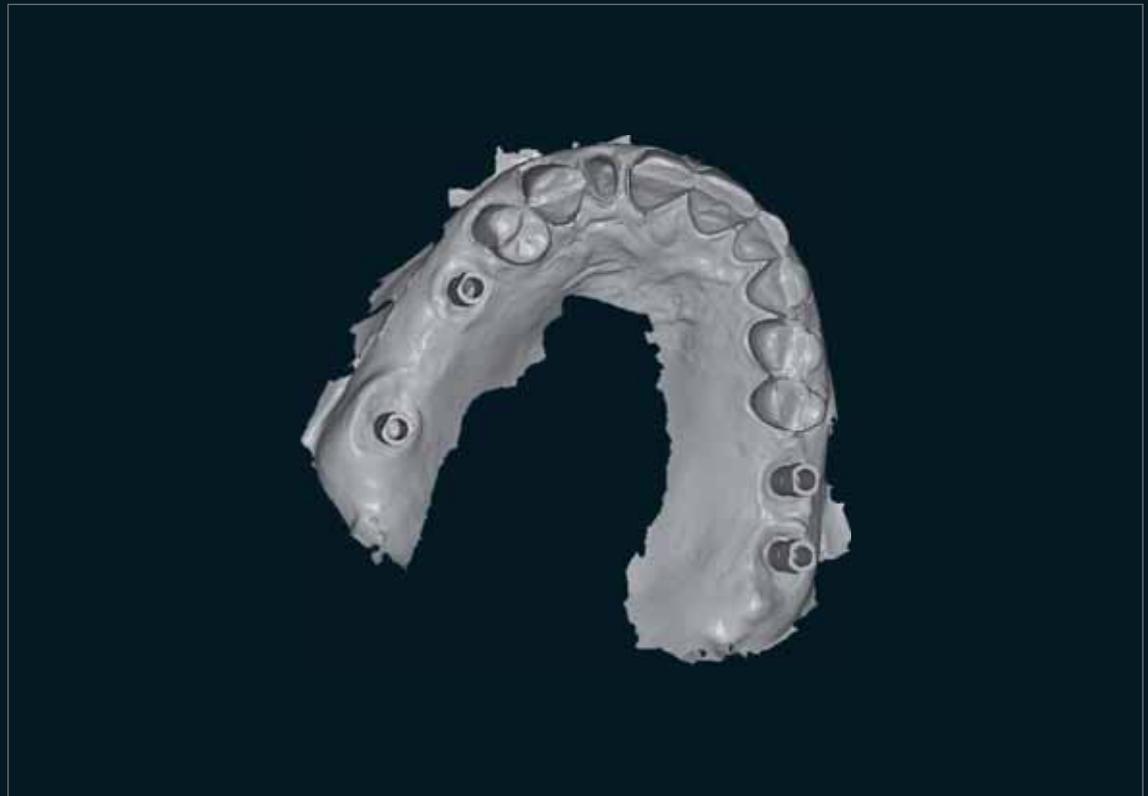
# SCANMARKER

*Thanks to the special geometry of the Scanmarkers and the precision of the Zirkozahn scanners, it is possible to transfer the exact position and orientation of the implants from the model into the software.*



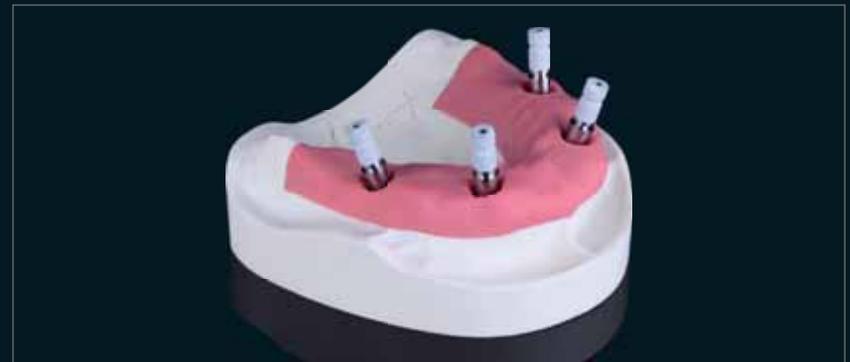
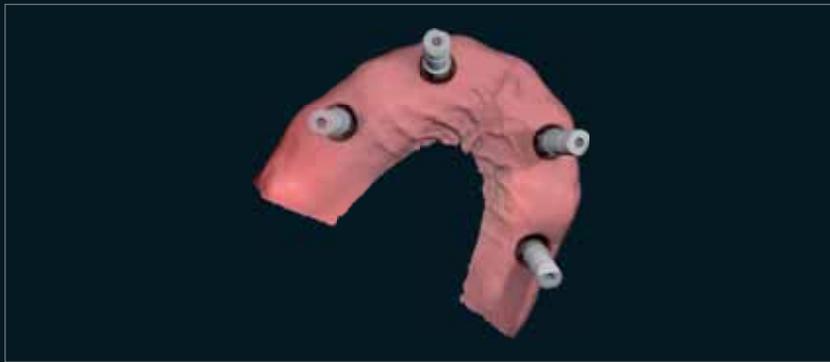
## WHITE SCANMARKER

*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.*



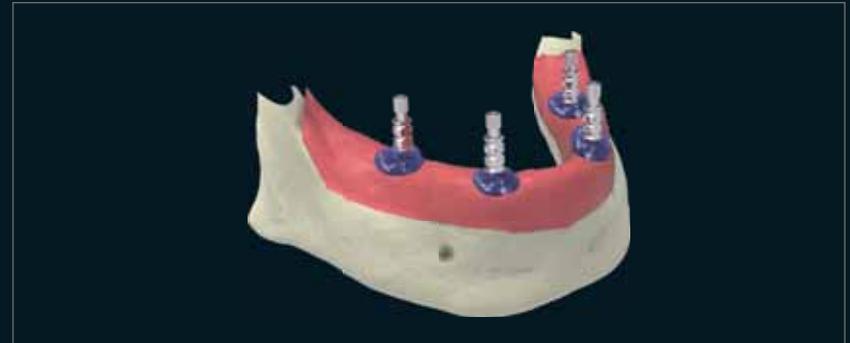
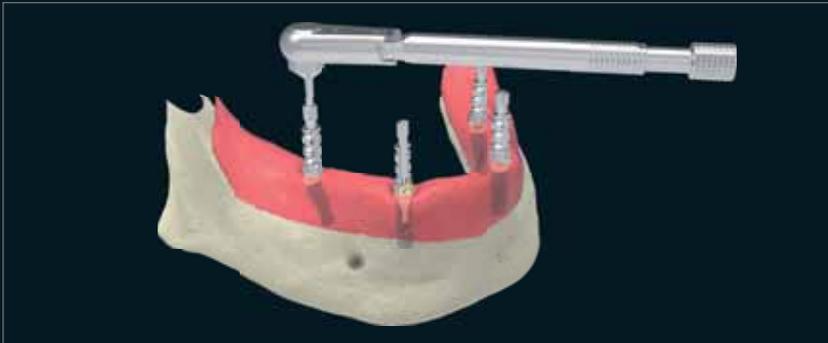
# WHITE METAL SCANMARKER

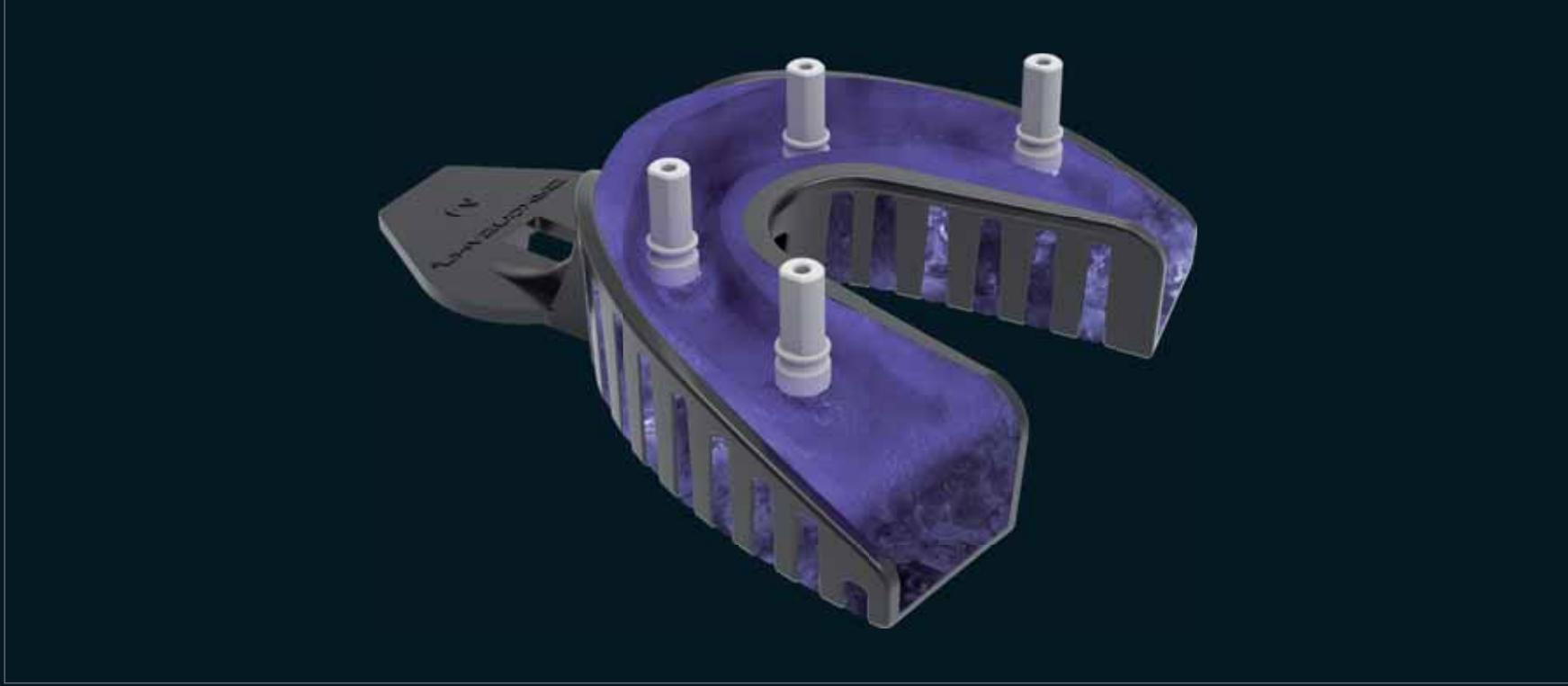
*White Metal Scanmarkers are used to capture the position and orientation of the implants during intraoral or model scanning. After appropriate treatment, they can be reused several times. As they are manufactured from plasma-coated medical titanium, they are particularly resistant, accurately fitting, dimensionally stable and easily visible on x-rays. The white plasma coating prevents light reflection during scanning and improves the scanning quality.*



## IMPRESSION COPINGS

*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.*

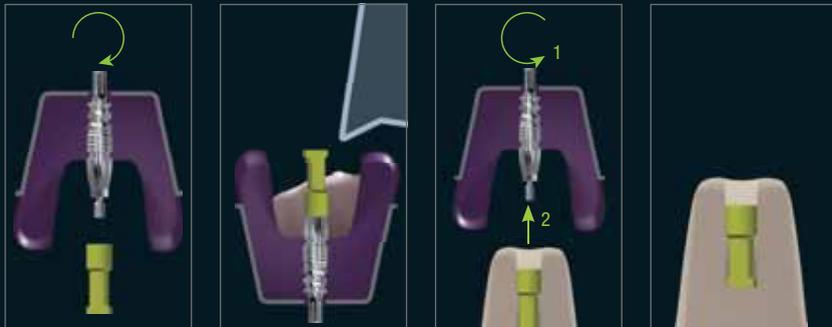




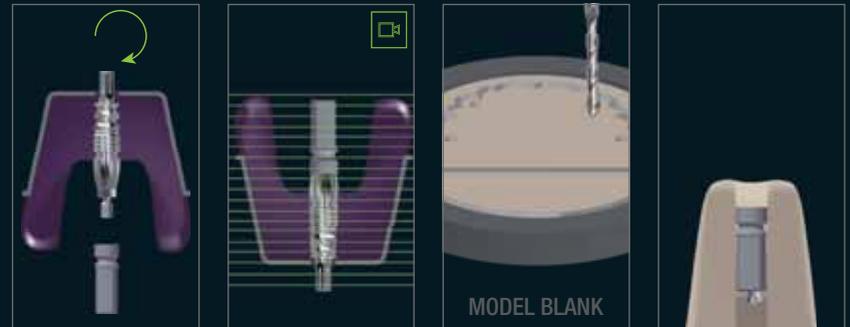
# IMPRESSION TAKING WITH OPEN/CLOSED TRAYS AND IMPRESSION COPINGS



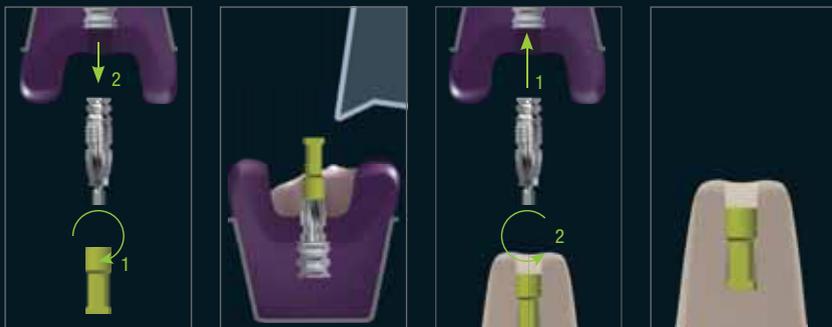
### LABORATORY ANALOGUES



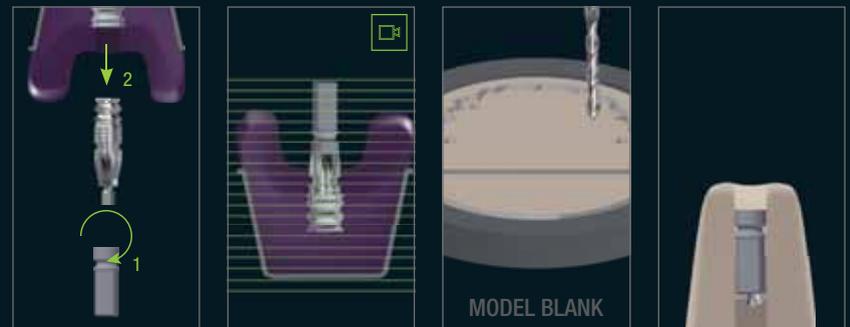
### SCANANALOGS



### LABORATORY ANALOGUES



### SCANANALOGS

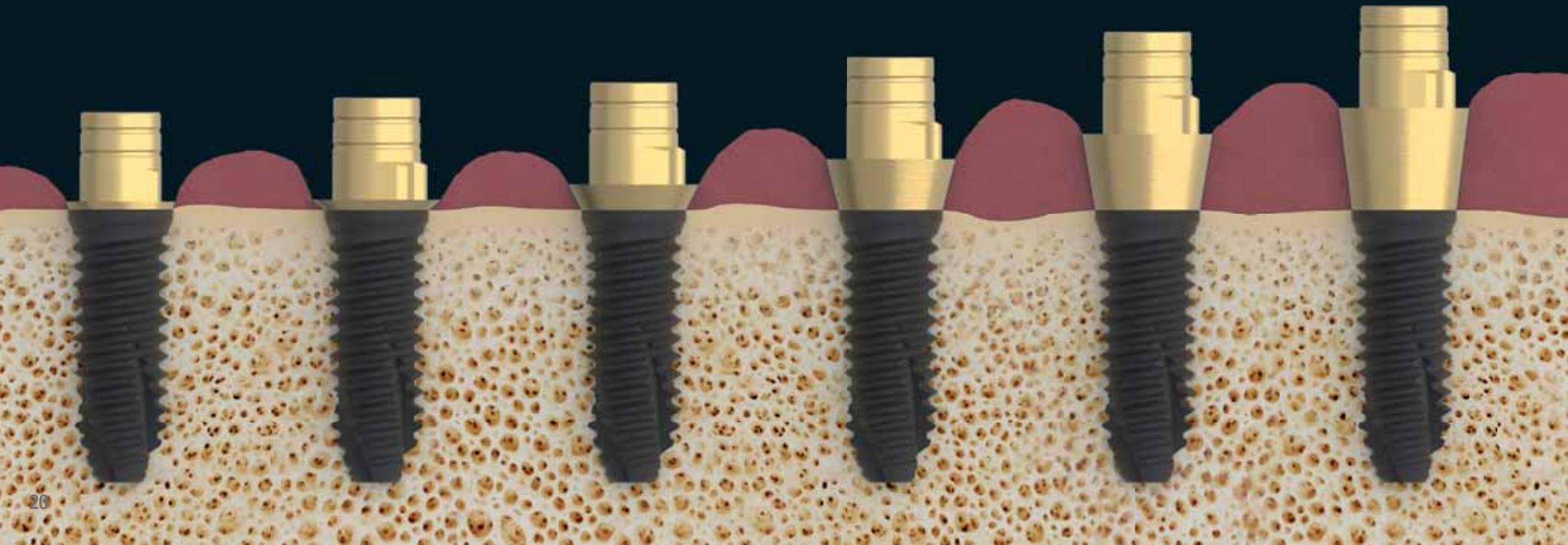


## TITANIUM BASES

*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.*

### TITANIUM BASES IN 5 HEIGHTS ...

*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 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.*

*Alternatively, titanium bases can also be anodised in different colours using the Titanium Spectral-Coloring Anodizer or the Metal Colourizer. 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 gingival 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*



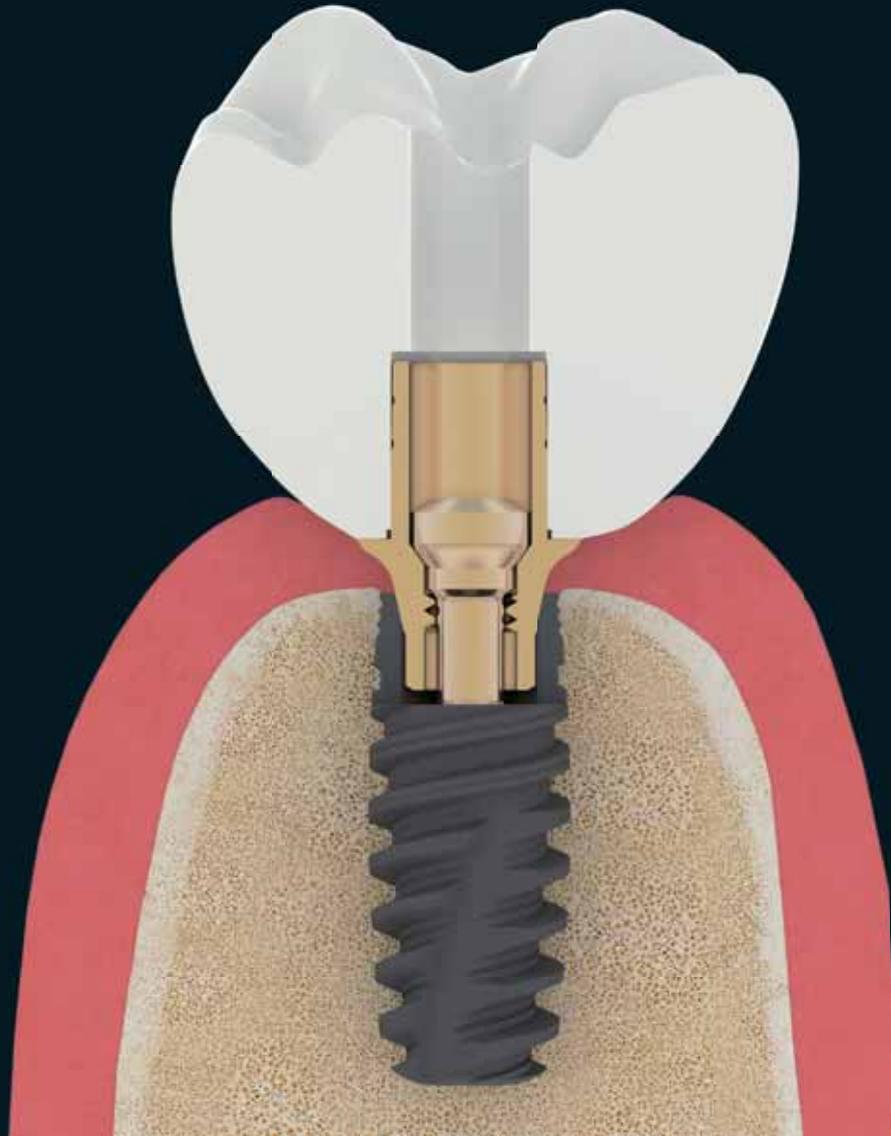
*With anti-rotation device*



*Available in different gingival heights*



PARALLEL CEMENTED TITANIUM BASE HEX



NARROW TITANIUM BASE HEX



# 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, e.g. in the lower anterior sector where little space is available.*



## NARROW TITANIUM BASE NON HEX

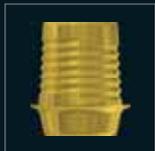
*Thanks to their reduced geometry, the Narrow Titanium Bases NON HEX without anti-rotation device are perfectly suitable for multi-unit structures on implants placed very closely.*



*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*



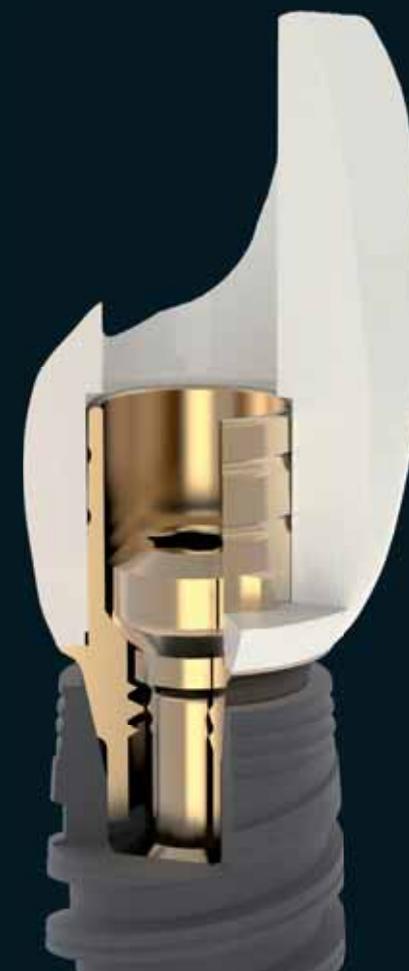
*Parallel shaft*



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

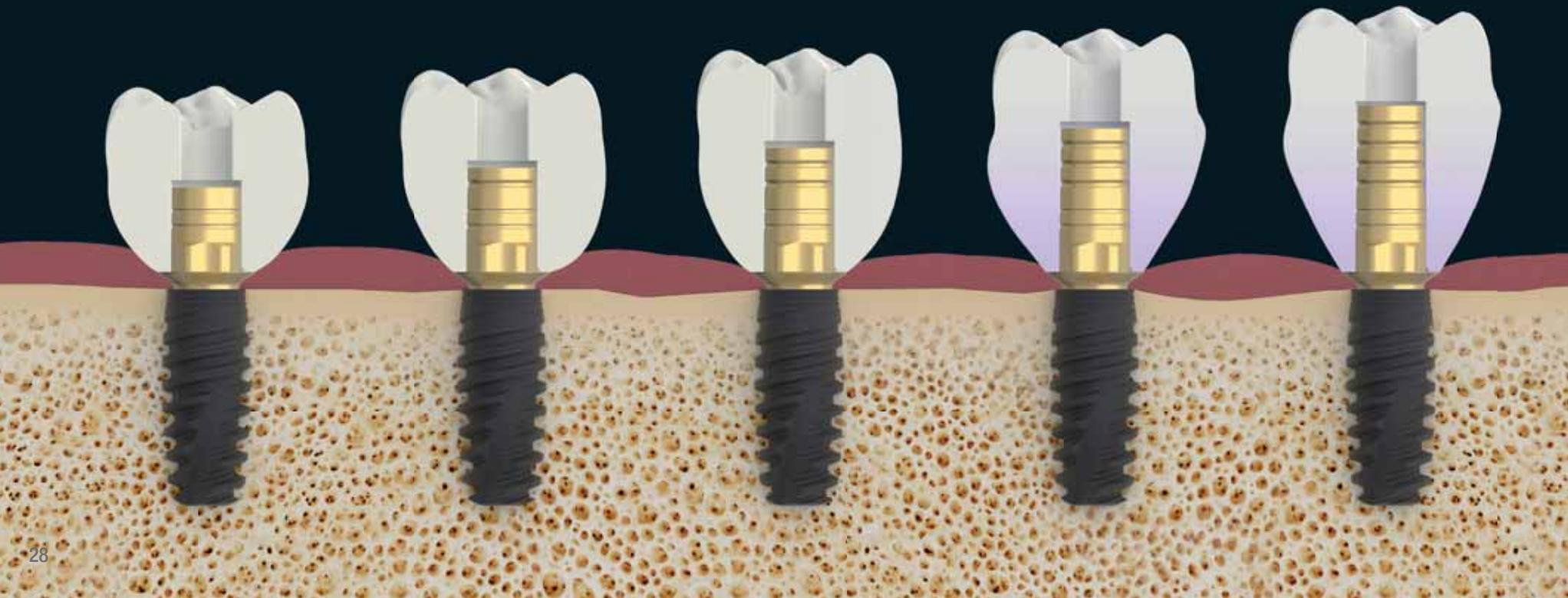


*With anti-rotation device*



## TITANIUM BASE K85

*The Titanium Bases K85 can be shortened individually and thus optimally adapted to the respective tooth length. This ensures optimum force distribution and stabilises the whole structure. Depending on the intended use, the titanium bases are available with or without anti-rotation device.*





# CONICAL CEMENTED TITANIUM BASE NON HEX K85

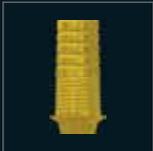
*The Conical Cemented Titanium Bases NON HEX K85 without anti-rotation device are ideal for the manufacturing of bridges and multi-unit restorations. Spiral grooves located on the surface increase the contact area and ensure optimum adhesion of the cement.*



*For multi-unit restorations*



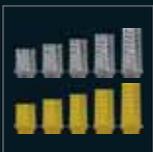
*Conical shape with spiral grooves*



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



*Without anti-rotation device*



*Shaft height can be adjusted to tooth length*



# PARALLEL CEMENTED TITANIUM BASE HEX K85

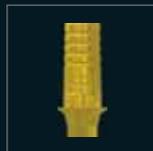
*The Parallel Cemented Titanium Bases HEX K85 are equipped with the required anti-rotation device depending on the implant system. This ensures that restorations can no longer be twisted once they are cemented. They are especially suitable for single crowns.*



*For single crowns*



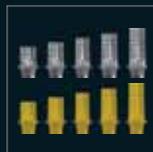
*Parallel shaft*



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



*With anti-rotation device*



*Shaft height can be adjusted to tooth length*



## ABUTMENT SCREW METAL

*This abutment screw is suitable to fix titanium bases, Scanmarkers and Raw-Abutments®, but it is not suitable for 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*



## APPLICATION

*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.*



*or*



### ABUTMENT SCREW METAL

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

*only*



### ABUTMENT SCREW ZIRCONIA

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

RIGHT

Abutment Screw  
Zirconia



Zirconia  
abutment



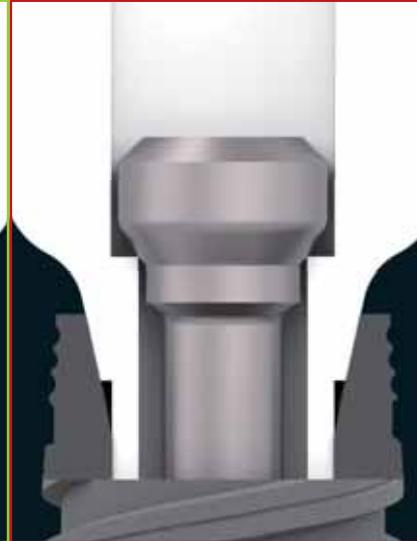
Implant



RIGHT



WRONG



WRONG

Abutment Screw  
Metal



Zirconia  
abutment



Implant



## RAW- ABUTMENT® HEX

*Our Raw-Abutments® are made from a high-quality medical titanium alloy (Ti-6Al-4V ELI according to ASTM F136 and DIN EN ISO 5832-3). They enable the manufacture of customised one-piece abutments thanks to their industrially prefabricated implant connections, which guarantee the highest precision and fitting accuracy. Special milling strategies and milling burs ensure a particularly smooth surface structure. Depending on the implant system, different Raw-Abutment® blanks are required.*



*For single crowns*



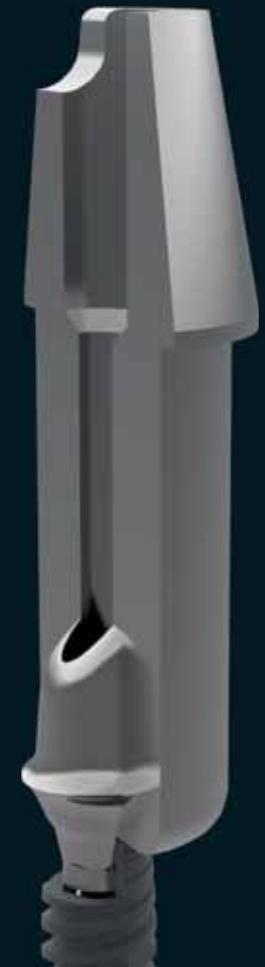
*With anti-rotation device*



*Available with 10 mm and 14 mm diameter*



*Can be anodised in different colours with the Titanium Spectral-Colouring Anodizer or the Metal Colourizer*





## ZIRKONZAHN MULTI UNIT ABUTMENTS

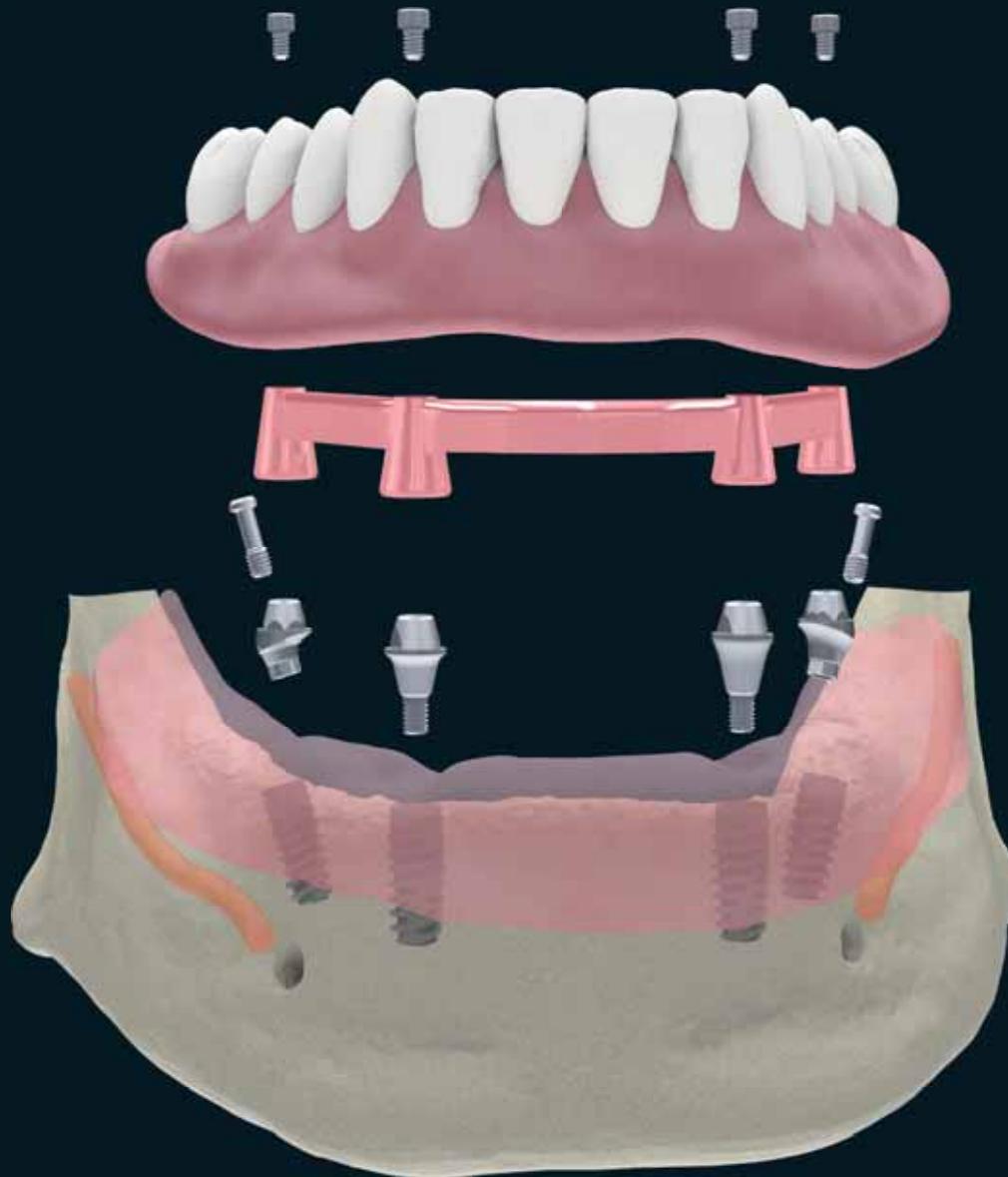
*The Zirkonzahn Multi Unit Abutments and Multi Unit Abutments Angled are especially suited for multi-unit restorations. Due to the fact that they are adapted to different implant systems and their connections for the secondary structure are unified, the secondary structure can be screwed directly, or with additional titanium bases, with 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.*



ZIRKONZAHN MULTI UNIT  
ABUTMENT NON HEX



ZIRKONZAHN MULTI UNIT  
ABUTMENT 17°



*Restoration fixed on two Multi Unit Abutments and two Multi Unit Abutments Angled 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 Golden; anodised



Scanmarker + Abutment Screw Metal



White Scanmarker + Abutment Screw Metal



Laboratory Analogue



ScanAnalog

## TOOLS



Screwdriver 0,05" short



Torque Ratchet Wrench



Screwdriver 0,05" medium



Screw Driver Zirkonzahn MUA



Screwdriver 0,05" long

## ZIRKONZAHN MULTI UNIT ABUTMENT NON HEX

*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.*



*For multi-unit restorations*



*Conical Cemented Titanium Base as component of the Multi Unit Abutment*



*Without anti-rotation device*



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



*Available in different gingival heights*



# ZIRKONZAHN MULTI UNIT ABUTMENT ANGLED HEX

The Zirkonzahn Multi Unit Abutments Angled HEX 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*



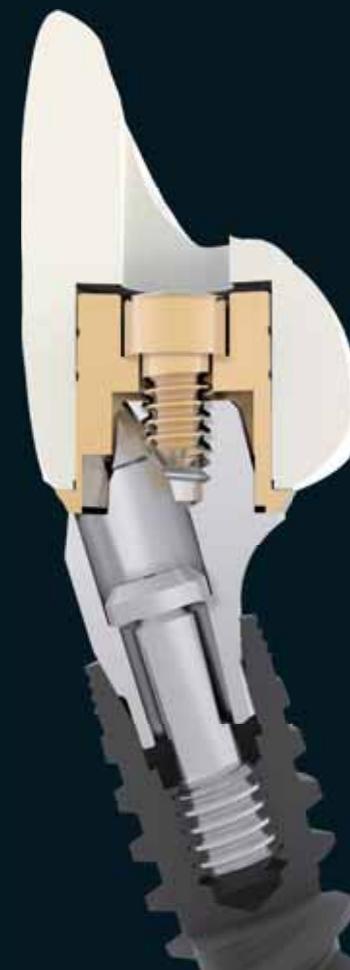
*With anti-rotation device*



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



*Available in different gingival heights*



# CONNECTION POSSIBILITIES MULTI UNIT ABUTMENT

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

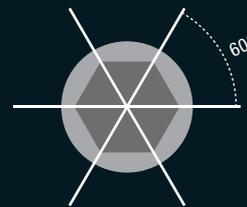
*Side view*

*Top view*

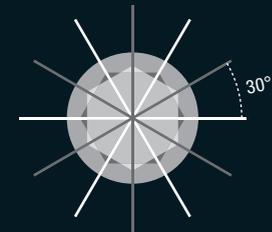
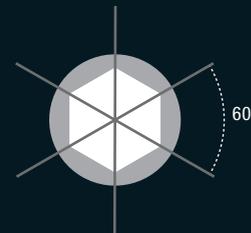
*The MUA can be positioned on every 60° of a HEX connection.*

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

*HEX connection  
Type 1*



*HEX connection  
Type 2*



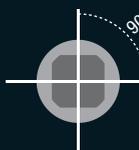
Triangular connection  
Type 1



Triangular connection  
Type 2



Square connection  
Type 1



Square connection  
Type 2



Octagonal connection  
Type 1

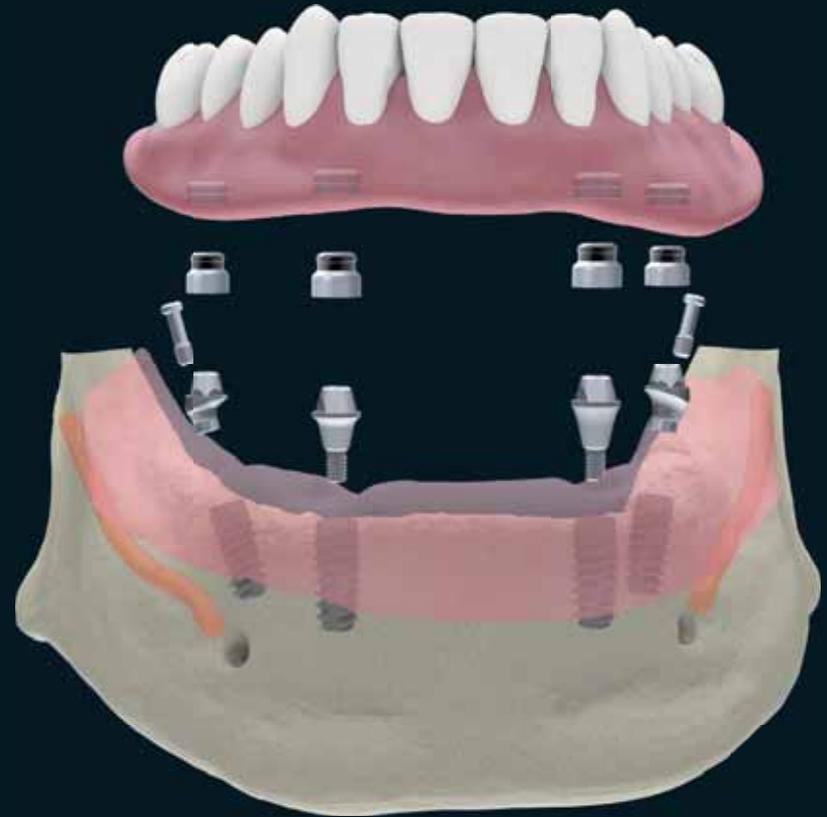


Octagonal connection  
Type 2

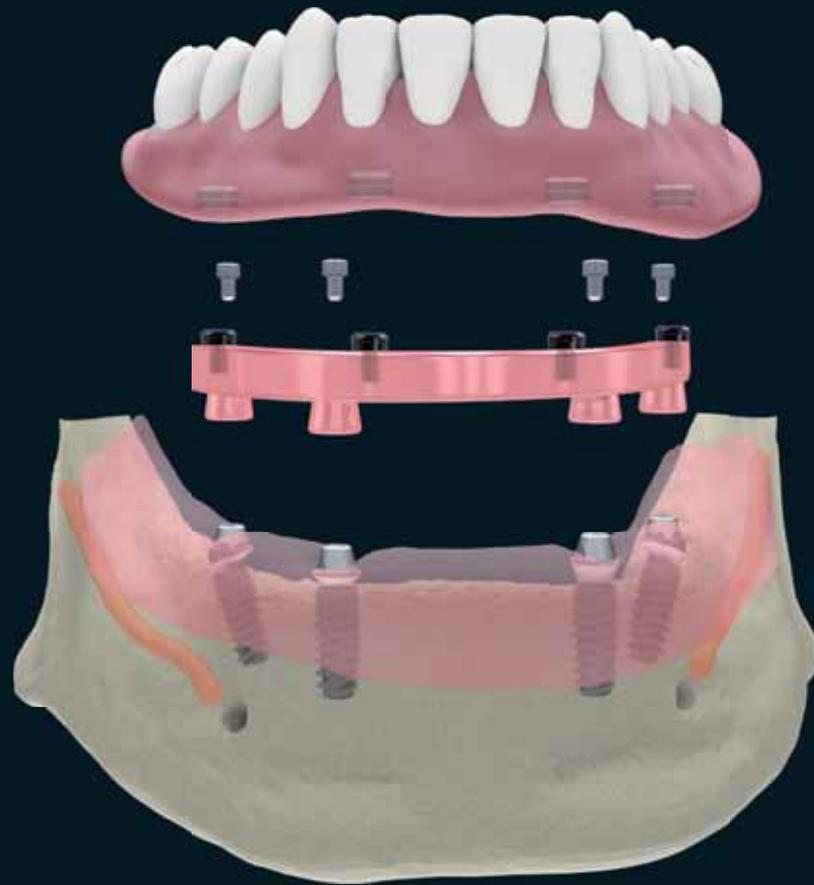


## ZIRKONZAHN LOC-CONNECTOR

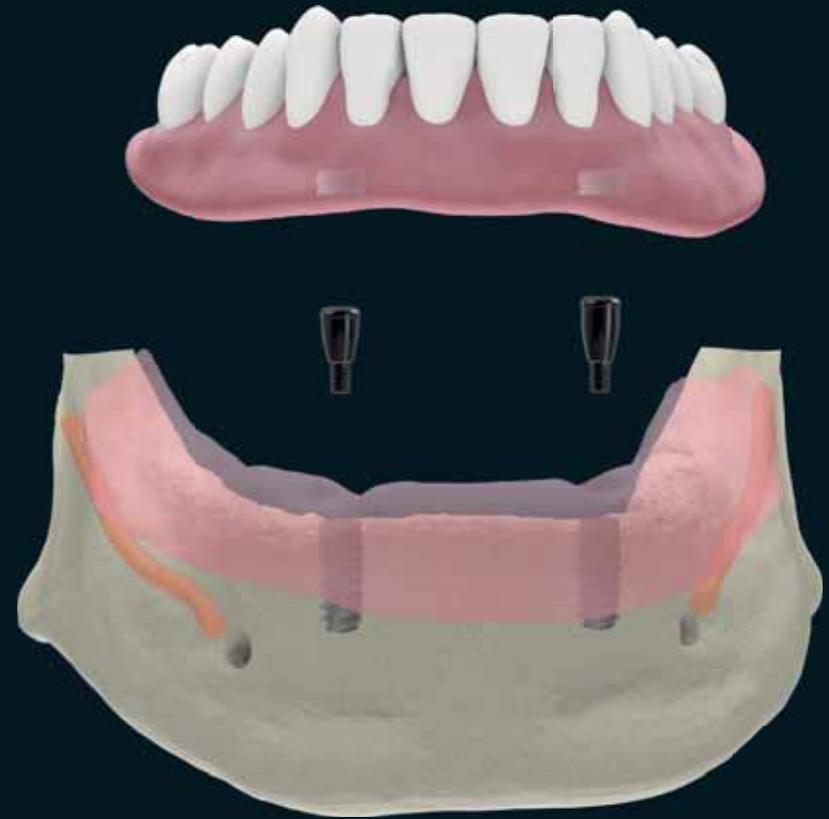
*The Zirkonzahn LOC-Connector is a snap attachment for implants and bars that is used to connect complete overdentures to dental implants. Zirkonzahn LOC-Connectors thus combine the advantages of removable and fixed prostheses. Their snap-on mechanism allows both patients and dentists to insert and remove the restoration effortlessly. The Zirkonzahn LOC-Connectors can be used for bridges only and are available both upright (for Multi Unit Abutments and implants) and oblique (for implants only).*



*Zirkonzahn LOC-Connectors on Zirkonzahn Multi Unit Abutments*



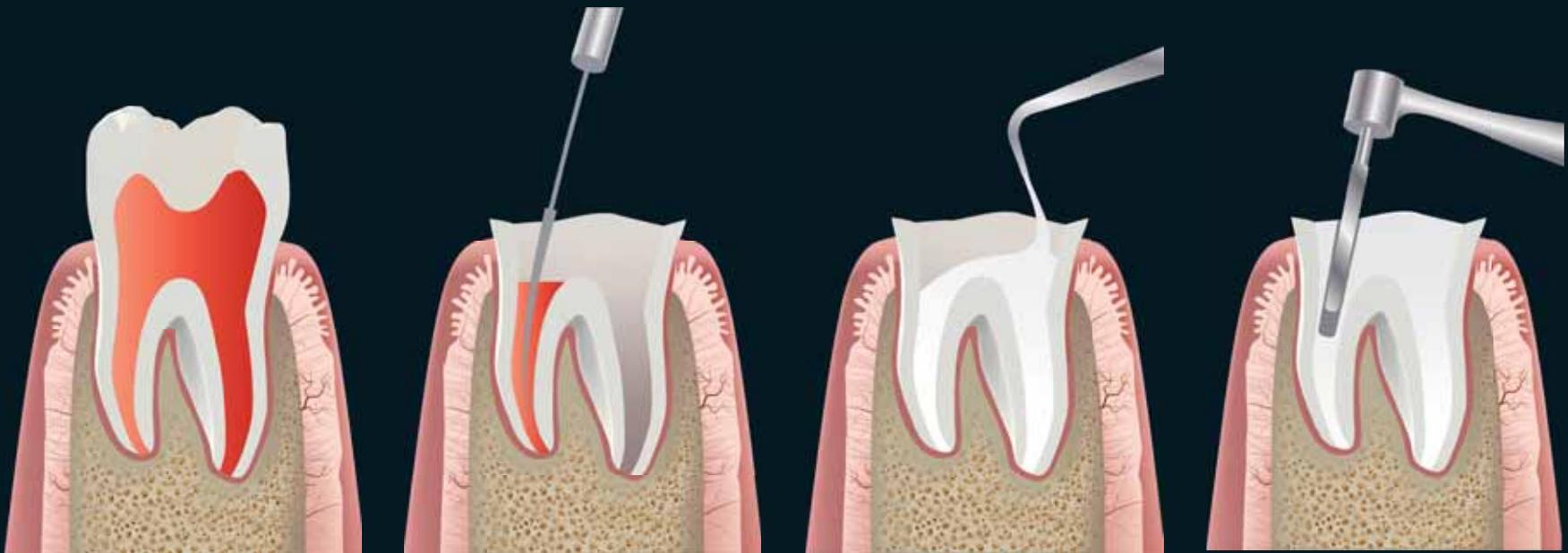
*Zirkonzahn LOC-Connectors on a titanium bar*



*Zirkonzahn LOC-Connectors on implants*

## ZIRKONZAHN TITANIUM POSTS

*The Zirkonzahn Titanium Posts are root posts made from a medical titanium alloy. They are used to reconstruct endodontically treated teeth with extensive coronal defects. The position and inclination of the posts can be determined using special attachments, in order to make them available in the design software for the subsequent working steps.*



*Inflamed tooth*

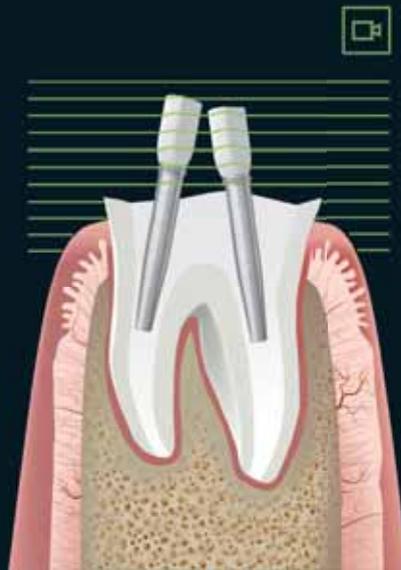
*The nerves are removed and the canals are cleaned*

*The root is filled with a special filling material*

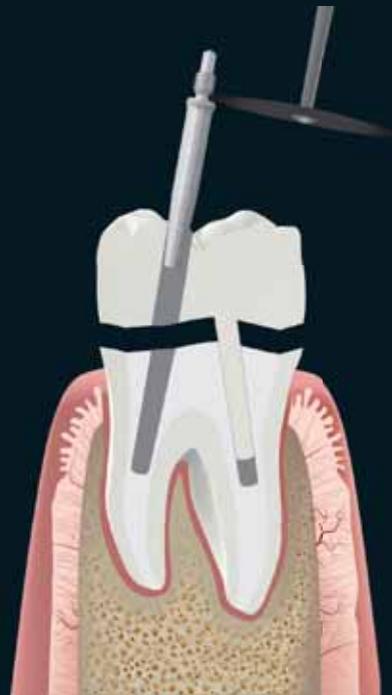
*Drilling the root canal*



*Preparing the post canals*



*Insertion of the Titanium Posts with special attachments; digitisation*

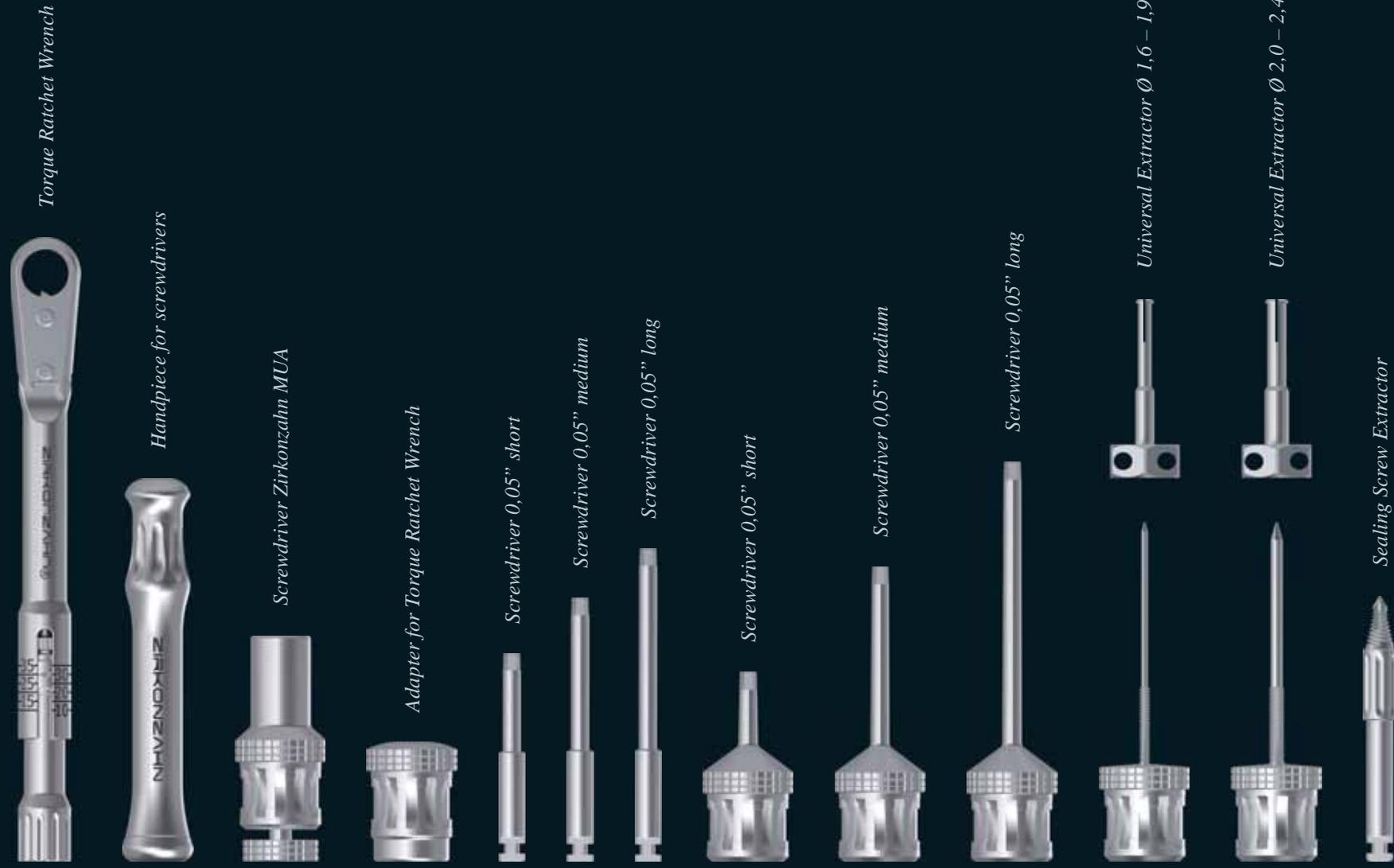


*Shortening the titanium post; insertion of the crown, designed with a fixed post*



*Sealing the post canal in the crown*

## TOOLS





*Titanium Base Extractor Biotech 3.0*



*Titanium Base Extractor Biotech 3.6-5.4*



*Titanium Base Extractor Camlog Conelog 3.3-4.3*



*Titanium Base Extractor Camlog Conelog 5.0*



*Titanium Base Extractor Friadent Dentsply Ankylos 3.5-7.0*



*Titanium Base Extractor K3 Mini*



*Titanium Base Extractor K3 Standard*



*Titanium Base Extractor MIS Narrow*



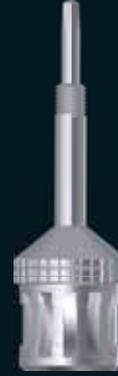
*Titanium Base Extractor MIS Standard/Wide*



*Titanium Base Extractor Nobel Biocare Nobel Active NP*



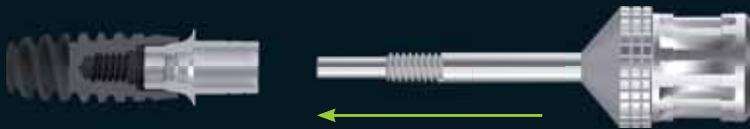
*Titanium Base Extractor Nobel Biocare Nobel Active RP/WP*



*Titanium Base Extractor Tekka In-Kone 3.5-5.5*

# TITANIUM BASE EXTRACTOR

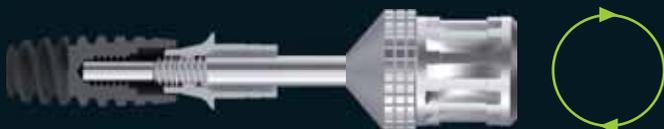
*Abutments are fitted to laboratory analogues or implants directly on the model or in the patient's mouth and then screwed. If the abutment is fixed on an implant with a flat-angled connection, a frictional connection is created. In the conventional manual way, the two components cannot be separated 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.*

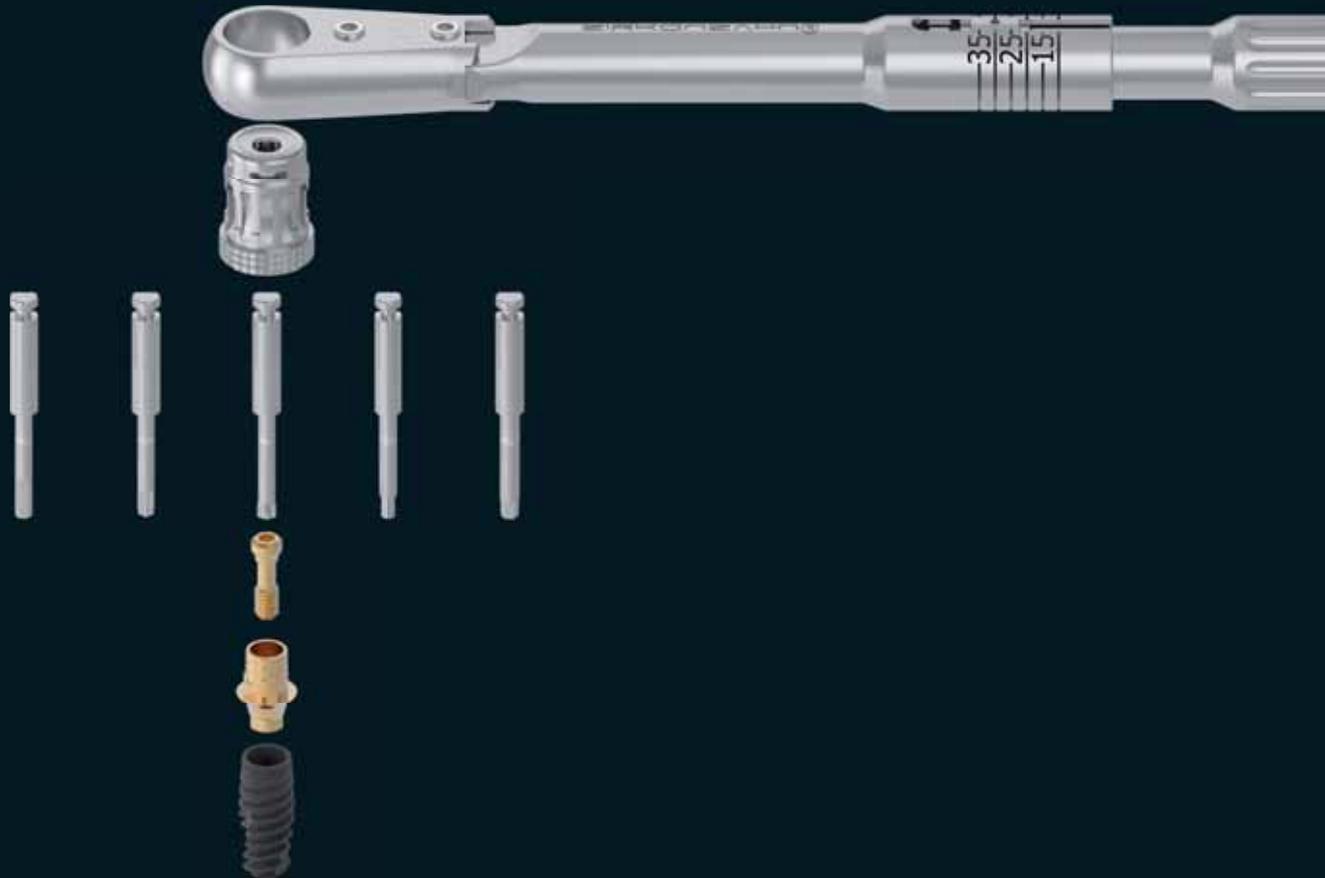
# UNIVERSAL EXTRACTOR

*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.*



# UNIVERSAL SCREWDRIVER SET

*Set for all types of restorations including the new Torque Ratchet Wrench, the Ratchet Wrench Adapter and several screwdrivers; available for different implant systems and lengths.*





ZIRKONZAHN

ZIRKONZAHN

RAZORSET WIREBOND

OUT

## SCREWDRIVER ZIRKONZAHN FOR MUA

*The screwdrivers are used in combination with the Torque Ratchet Wrench torque wrench to fix the titanium bases and MUAs.*

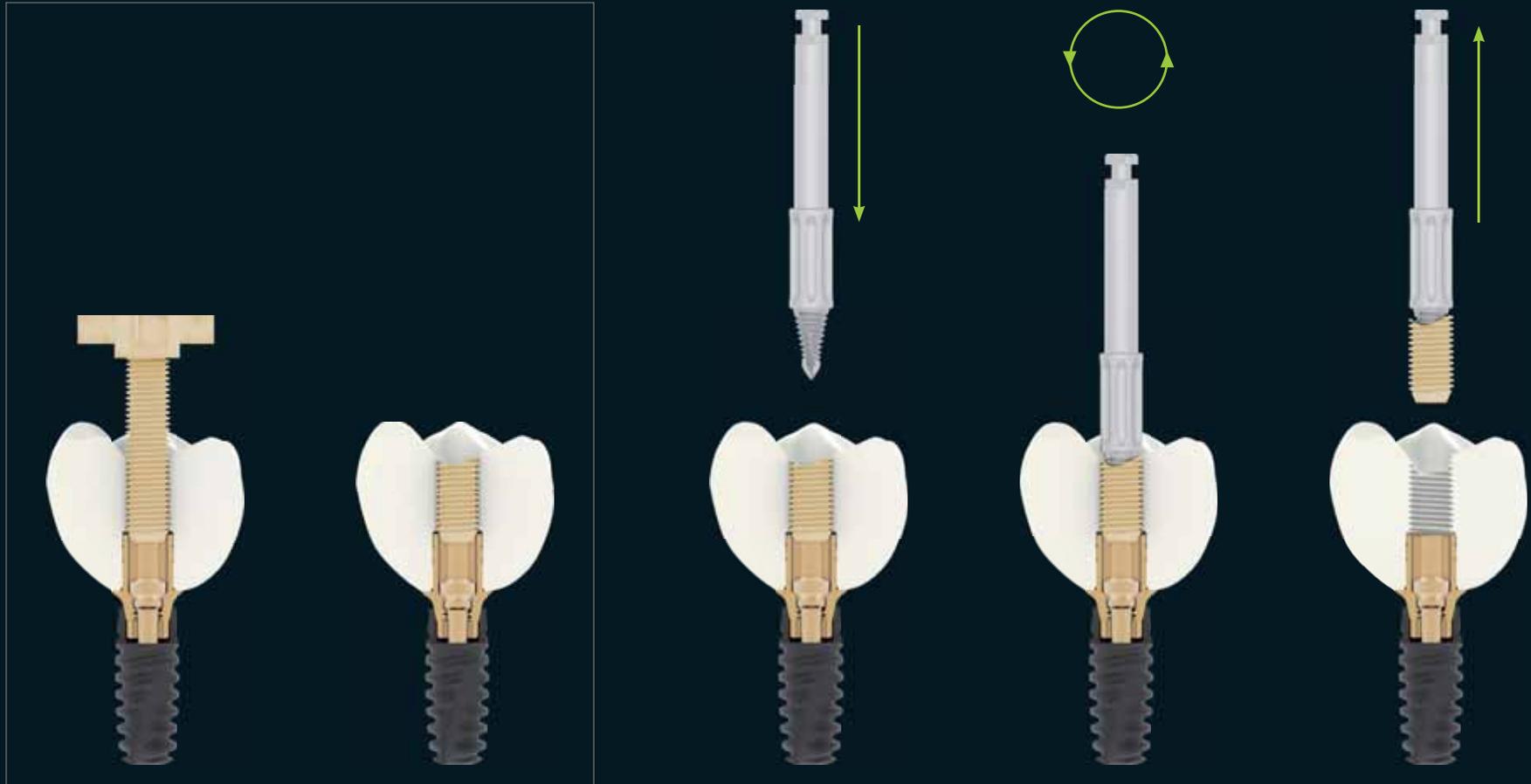
*The screwdrivers are available in different sizes.*



*Screwdriver MUA*

# SEALING SCREW EXTRACTOR

*The Sealing Screw Extractor can be used to loosen sealing screws out of zirconia structures without damaging the threaded screw channel.*



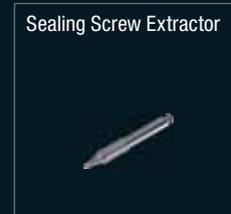
## AVAILABLE SETS

ANALOGUES	SCANMARKERS	TRANSFER	RAW-ABUTMENTS®	TITANIUM BASES			
<p>Laboratory Analogue</p> 	<p>Scanmarker + Abutment Screw Metal</p> 	<p>Impression Coping</p> 	<p>Raw- Abutment® HEX + Abutment Screw Metal</p> 	<p>Narrow Titanium Base HEX + Abutment Screw Metal</p> 	<p>Narrow Titanium Base HEX Gold + Abutment Screw Metal Gold</p> 	<p>Parallel cemented titanium base HEX + Abutment Screw Metal</p> 	<p>Parallel cemented Titanium Base HEX Gold + Abutment Screw Metal Gold</p> 
<p>LOC- Connector</p> 	<p>White Scanmarker + Abutment Screw Metal</p> 		<p>Raw- Abutment® D14 HEX + Abutment Screw Metal</p> 	<p>Narrow Titanium Base NON HEX + Abutment Screw Metal</p> 	<p>Narrow Titanium Base NON HEX Gold + Abutment Screw Metal Gold</p> 	<p>Conical cemented Titanium Base NON HEX + Abutment Screw Metal</p> 	<p>Conical Cemented Titanium Base NON HEX Gold + Abutment Screw Metal Gold</p> 
	<p>White Metal Scanmarker</p> 					<p>Parallel cemented titanium base HEX K85+ Abutment Screw Metal</p> 	<p>Parallel cemented Titanium Base HEX K85 Gold + Abutment Screw Metal Gold</p> 
<p>ScanAnalog</p> 						<p>Conical cemented Titanium Base NON HEX K85+ Abutment Screw Metal</p> 	<p>Conical Cemented Titanium Base NON HEX K85 Gold + Abutment Screw Metal Gold</p> 

SCREWS

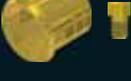


TOOLS



# AVAILABLE SETS ZIRKONZAHN MUA

ANALOGUES	SCANMARKERS	TRANSFER	HEALING CAPS	MULTI UNIT ABUTMENT		TITANIUM BASES
<p>Laboratory Analogue</p> 	<p>Scanmarker + Abutment Screw Metal</p> 	<p>Impression Coping</p> 	<p>Healing Cap Grey; anodisable</p> 	<p>Multi Unit Abutment NON HEX + Abutment Screw Metal</p> 	<p>Multi Unit Abutment NON HEX Gold + Abutment Screw Metal Gold</p> 	<p>Conical cemented Titanium Base NON HEX + Abutment Screw Metal</p> 
	<p>White Scanmarker + Abutment Screw Metal</p> 		<p>Healing Cap Golden; anodised</p> 	<p>Multi Unit Abutment 17° HEX + Implant Screw + Insertion Tool</p> 	<p>Multi Unit Abutment 17° HEX Gold + Implant Screw Gold + Insertion Tool</p> 	<p>Narrow Titanium Base HEX + Abutment Screw Metal</p> 
<p>ScanAnalog</p> 			<p>Healing Cap Golden; anodised</p> 			<p>Narrow Titanium Base HEX One Position + Abutment Screw Metal</p> 

TITANIUM BASES	SCREWS				TOOLS	
Conical Cemented Titanium Base NON HEX Gold + Abutment Screw Metal Gold 	Abutment Screw Metal 	Abutment Screw Metal Gold 	Abutment screw Metal Laboratory 	Abutment Screw Metal Black 	Screw Driver Zirkonzahn MUA 	Screwdriver 
Narrow Titanium Base HEX Gold + Abutment Screw Metal Gold 	Abutment Screw Zirconia 	Abutment Screw Zirconia Gold 	Abutment Screw Zirconia Laboratory 	Abutment screw Zirconia Black 	Torque Ratchet Wrench 	Titanium Base Extractor 
Narrow Titanium Base HEX One Position Gold + Abutment Screw Metal Gold 	Implant Screw 	Implant Screw Gold 	Implant Screw Laboratory 	Implant Screw Black 	Sealing Screw Extractor 	

## ZIRKONZAHN.SOFTWARE

*When developing the Zirkonzahn.Software we adapted the strict standards of our proven products to design and functionality of our software.*

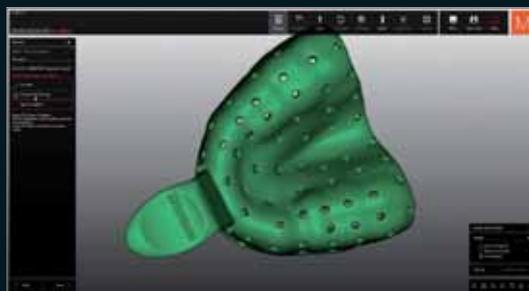
*The user's interface is clearly structured, has a simple design and is the same for each software component, which makes it the cornerstone for a familiar and reliable application. When it comes to the creation of different features, our developing team, which obviously includes also dental technicians, 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 user can decide whether he wants to use a step by step guide or if he wants to proceed individually. 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 can be combined in order to achieve the best possible patient care.*





## ZIRKONZAHN LIBRARY DOWNLOAD CENTER

- *Zirkonzahn implant components for exocad® and 3shape users*
- *Free programme to import and manage all of Zirkonzahn's implant components in the 3shape or exocad® design software*
- *Fast download: implant libraries can be downloaded individually*
- *Always up to date: automatic update information for newly available systems or system components*



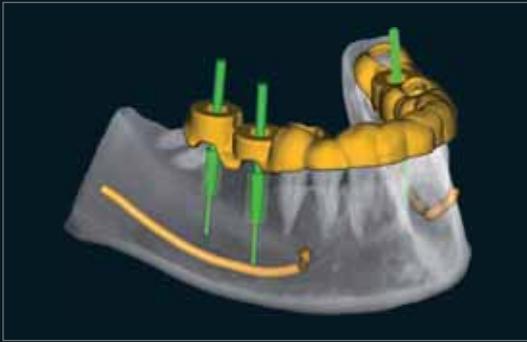
## ZIRKONZAHN.TRAY SOFTWARE

- *Step-by-step guided, open software for the fabrication of individual impression trays*
- *Open STL data format – compatible with various manufacturing processes (e.g. 3-D printing) and systems*
- *Individual design possibilities (edges, dimensions, retentions, holes) possible*
- *Adjustable tool sizes for rapid design*



## HEROES COLLECTION VIRTUAL TOOTH LIBRARY

- *Virtual tooth library including natural and aesthetic tooth sets (for upper and lower jaw) as a base for the design of any kind of restoration; also for the creation of set-ups to be considered during the implant planning*
- *Rooted teeth set available*



## ZIRKONZAHN IMPLANT-PLANNER SOFTWARE

*With the Zirkonzahn.Implant-Planner, the cooperation between the dentist and the dental laboratory can be taken to new levels, reconciling the planned aesthetic design of a prosthetic restoration with the planned implant situation.*

- *3D implant planning software approved as medical device*
- *Intuitive-to-use software with step-by-step guidance (Wizard)*
- *Compatible with all open DICOM data from CT-, CBCT-, DCM-devices*
- *Determining the ideal implant position on the basis of bone density and patient individual data such as DICOM data, wax-up, intraoral and model scans as well as 3D facial scans.  
Manual adjustments are possible*
- *Conversion of DICOM data into STL data records for further processing with other CAD software (CAD/CAM STL- software module required).*
- *Extensive implant libraries with varied implant-prosthetic components compatible with all common implant systems; library with a wide range of drilling sleeves. The libraries are being continually expanded*
- *Exporting the implant planning for further processing in the Zirkonzahn.Modellier software or another CAD software for planning the prosthetic restoration and the models with laboratory analogues. Manufacturing with Zirkonzahn CAD/CAM milling units, with CAD/CAM systems of other manufacturers or with 3D printers*
- *Creation of surgical guides: The surgical guides can be created either tooth-borne, bone-borne or mucosa-borne and can be fixed with pins*
- *Creation of custom impression trays (CAD/CAM Z-Tray software module required)*



*Download Viewer for free and try out the software immediately!*



## ZIRKONZAHN.IMPLANT-PLANNER

*Full version for the laboratory, with relevant tools for implant planning and for the production of surgical guides*



## ZIRKONZAHN.IMPLANT-PLANNER PRACTICE

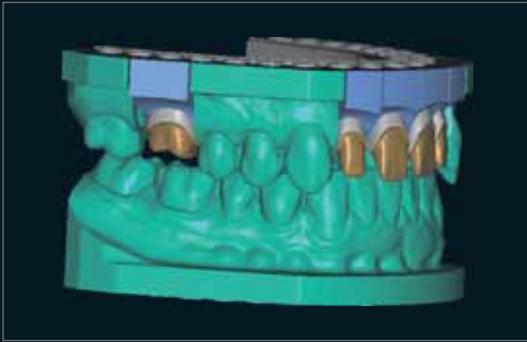
*Software version for the dental practice, with all relevant functions for implant planning only*



## ADDITIONAL ZIRKONZAHN.IMPLANT-PLANNER SOFTWARE MODULES (OPTIONAL)\*

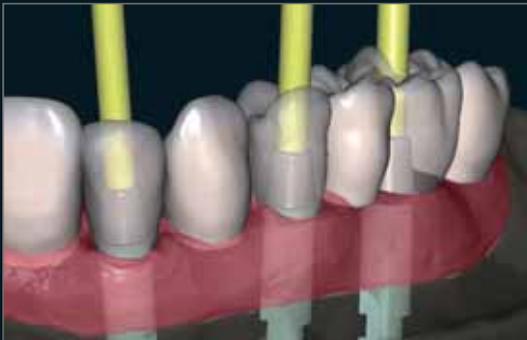
*CAD/CAM STL Converter software module – module for converting DICOM data into STL data for the further processing with different CAD software types  
CAD/CAM Z-Tray software module – for the manufacture of custom impression trays*

*\*at extra charge*



## NEW! THE CAD/CAM MODEL MAKER SOFTWARE MODULE

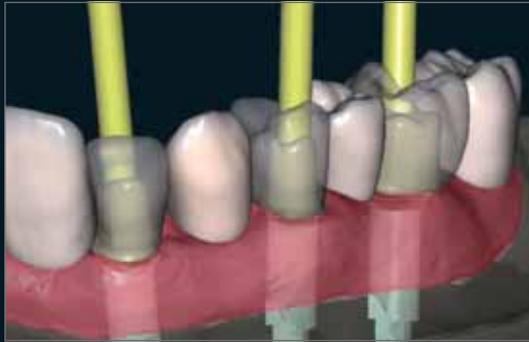
- Module for the manufacture of different physical models (e.g. Geller models, models with implant analogues, dies, full-arch bridges) based on intraoral scan data as well as impression scans and model scans
- Customised setting of the parameters: e.g. distance between model and die, model thickness
- Automatic margin and undercut identification (ditching)
- Exportable data for manufacturing models with 3-D printers
- Creation of positioning pins for transferring the digitally recorded occlusion into the laboratory articulator
- In combination with the Zirkonzahn.Implant-Planner: Service package for the dentist consisting of implant model, impression tray, surgical guide and temporary restoration



## THE CAD/CAM OCCLUSALLY SCREWED BRIDGES SOFTWARE MODULE

- Module for the creation of occlusally screwed bridges and bars
- 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 implants and uses it for the exact alignment of the screw channels
- Creation of threaded screw channels in the zirconia structure for sealing the restoration with sealing screws (made of Screw Blank) in the patient's mouth. The restoration can be easily removed by unscrewing the screws with the extractor

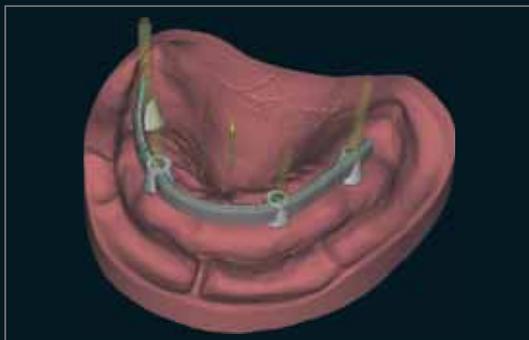
*Attention – only works in combination with the CAD/CAM Occlusally Abutments software module*



## THE CAD/CAM ABUTMENTS SOFTWARE MODULE

- Module for the manufacture of individual abutments and their emergence profile
- Design of abutments by taking into account the secondary construction; adjustable crown bottom parameters
- Semi-transparent display of the outer tooth form, which makes the creation of abutments much easier
- Supports all common implant systems stored, that can be constructed either as directly screwed or as bonded titanium bases

*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 bar profiles are already included and can easily be modified
- Adjustable parameters: height, thickness, lingual and buccal angle, as well as many other individualisation options
- Fixing of attachments and retentions is possible as well as blanking out holes and anchorages

## DIGITAL WORKFLOW FOR EDENTULOUS CASES

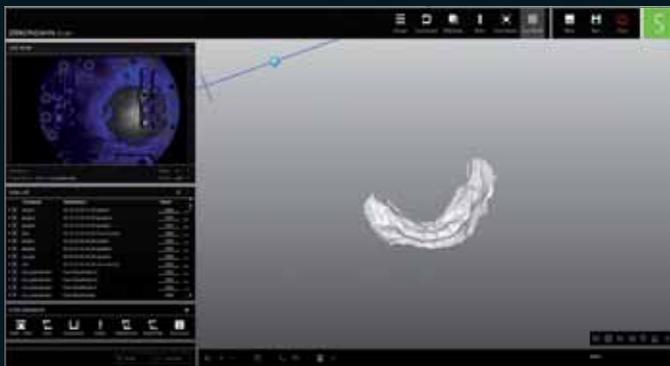
*Our software supports all common implant systems and the bars design is done in relation to the secondary structure. From single crowns to 14-unit occlusally screw-retained bridges, everything can be manufactured with Zirkonzahn's CAD/CAM system in ones's own laboratory.*

*An example of workflow for the treatment of edentulous cases is shown below.*

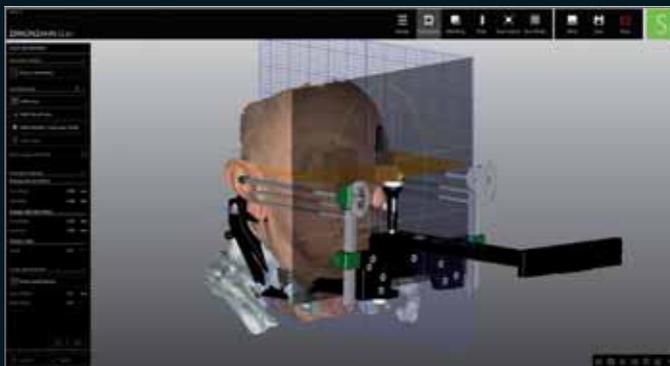
*Case made by Dr. Francesco Mintrone, Sassuolo, Italy and MDT Antonio Corradini, Zirkonzahn Education Center Brunico, Italy*



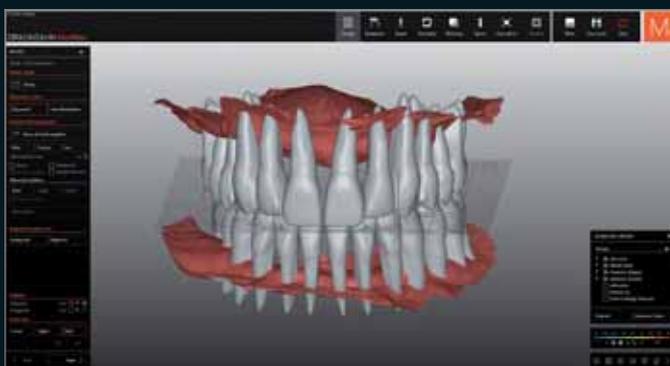
*Creation of the patient case in the Zirkonzahn.Archiv archive software. All kind of data (intraoral scans, facial scans) can be imported and collected into the software.*



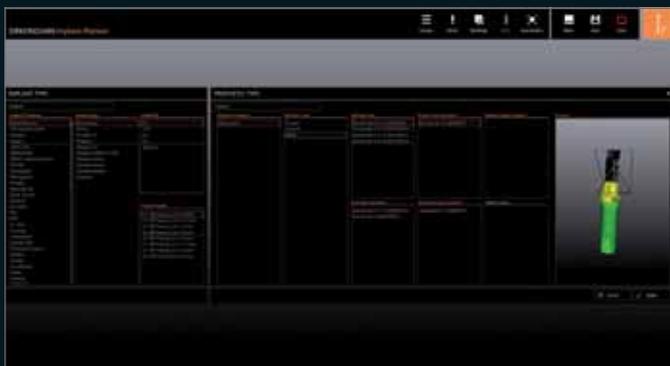
*Digital acquisition of the gingiva. The scan is transferred into the Zirkonzahn.Scan software and matched with all other patient data available. As an alternative to the intraoral scanner, conventional capturing methods with models and impressions can be used.*



*Digital acquisition of the patient's Natural Head Position and reference planes based on the PlaneSystem® concept (Udo Plaster, MDT). The patient's acquired data are transferred 1:1 into the Zirkozahn.Scan software in the correct position and matched with 3D facial scans for the virtual articulation.*



*Based on the digitally recorded patient data, set-ups are designed in the Zirkozahn.Modifier software for a first evaluation of aesthetics and function. The tooth anatomies are selected from the Heroes Collection virtual tooth library.*



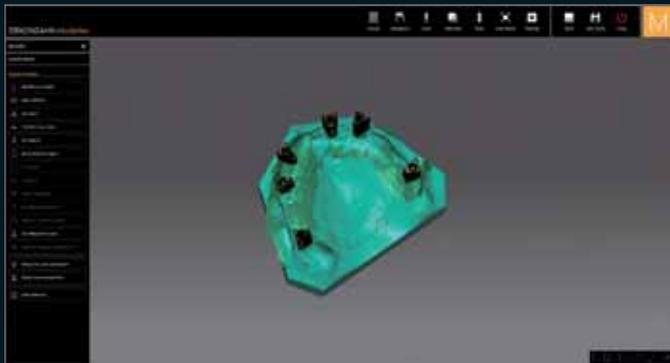
*During implant planning, the dentist can choose the implant system, pins and drilling sleeves directly from the extensive libraries included in the software.*



*In the Zirkonzahn.Implant-Planner software, the implants positions are set by the dentist or proposed by the dental technician, taking bone density, function and aesthetics into account.*



*However, only after the dentist's approval concerning the implants positions and inclinations can the dental technician design and mill (or print with the 3D printer) the surgical guides.*



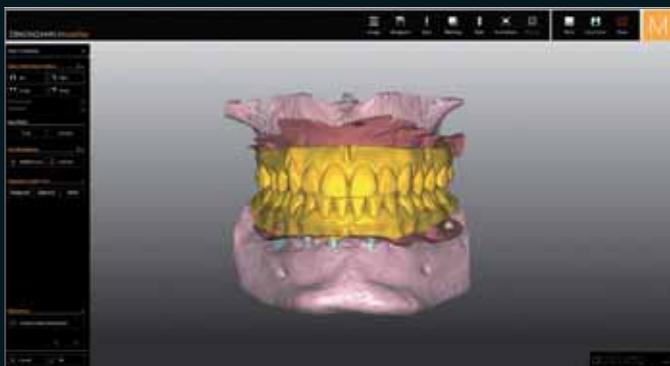
*The correct implants positions are imported in the CAD software with virtual scanmarkers. The models are designed with ScanAnalog in the CAD/CAM Model Maker software module.*



*The physical models can be milled or printed and are provided with ScanAnalogs to reproduce the implant positions. The ScanAnalog and the models are used to check the fit of the surgical guides, the prototypes and the final restoration.*



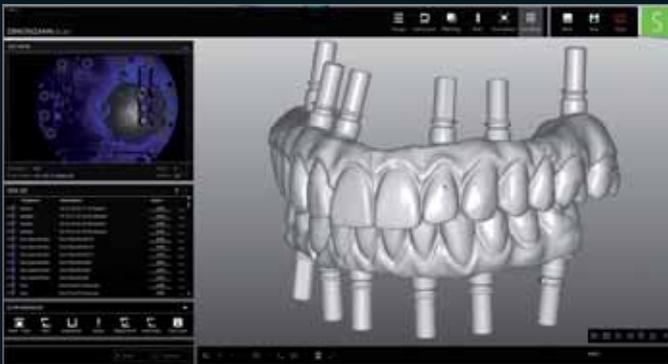
*In the Zirkonzahn.Modellier software, the dental technician selects the same system and components used during the implant planning phase.*



*The resin prototypes for immediate loading are designed and milled.*

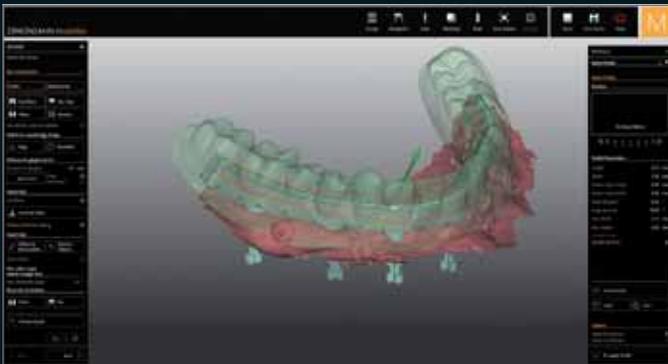


*The patient wears the prototypes until the implants have fully integrated into the bone.*



*After the healing phase, the new situation is recorded by scanning the immediate prototypes with ScanAnalog. The impression of the gingiva is also taken and after matching these scan data, the provisionals of the final restorations are created.*

*Alternatively, the intraoral scanner with White Scanmarkers can be used.*



*Once the provisionals are functionalised by the patient, they are scanned. Wax-ups are created to design the final zirconia restorations. The bar is designed, milled and then anodised with the Titanium Spectral-Colouring Anodizer or the Metal Colourizer.*



*The final restorations in Prettau® 2 zirconia, with anodised titanium bar and bases, are then manufactured. The maxillary restoration is provided with threaded screw channels.*



*To seal the Prettau® Bridges' screw channels, special resin screws are milled and applied directly in the patient's mouth.*



*The final Prettau® Bridges in-situ.*





Zirkonzahn®

## IMPLANT PROSTHETICS

*Zirkonzahn Worldwide - Via An der Ahr 7 - 39030 Gais/Südtirol*

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*All information is subject to change. Errors and omissions excepted. Version: 02/09/2019*

ENGLISH