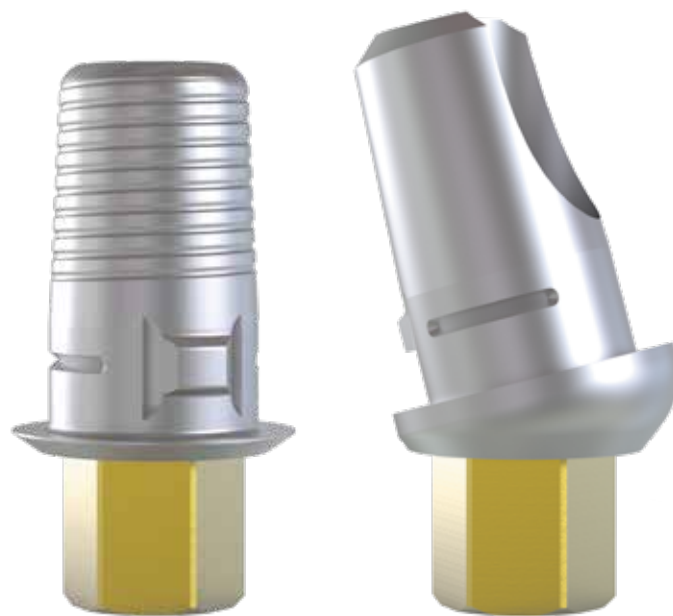




bonetrust®

IMPLANT  
SYSTEMS

# PROSTHETIC MANUAL



medical ins+inct®

... WE ARE IMPLANTOLOGY!

# INTRODUCTION

## GENERAL INFORMATION ABOUT IMPLANT PROSTHETICS

Nowadays, implant prosthetics are an indispensable part of modern dentistry. Whether the replacement of a single tooth or the treatment of partially or even fully edentulous jaws and thus very complex restorations – the individual expectations and demands by users and patients are continually increasing.

The objective is always the restoration of aesthetic, functional and phonetic functions. New technologies, materials and also specialisations require close collaboration and an exchange of information between the prosthodontist, surgeon, dental technician as well as dental assistants. With regard to planning, production and function, implant-supported dental replacement should be designed to be as easy and thus as safe as possible. The necessary number and dimensioning of the implants is determined by the planned prosthetic restoration as well as the individual anatomic structures. Medical Instinct® recommends exclusively prosthesis-oriented planning (backward planning).

Since dental implants are not connected elastically by the periodontium, like natural teeth, but rather are firmly attached to the bone with a type of ankylotic connection, chewing forces are directly transferred to the bone via implant superstructures. For this reason, it should be ensured through corresponding statics and occlusion design that force transmission to the bone that is as physiological as possible occurs in order to support the long-term success of the osseointegrated implants.

## REGULAR CHECKS OF THE SUPERSTRUCTURES

Resiliently mounted prostheses in connection with implant-fixed retention elements should be regularly checked – every three months, if possible. As a result, any movements of the prosthesis can be identified early on and stopped with suitable measures, such as relining or replacing matrices.

Significantly shorter examination intervals may be indicated in particular in the case of patients with motor impairments. Patients with inadequate oral hygiene should be encouraged and correspondingly instructed.

### IMPORTANT NOTE:

Please note that the descriptions and illustrations below may not be sufficient for the immediate and full application of the Medical Instinct® implant systems. Instruction in the handling of the Medical Instinct® implant systems by a specialist is recommended. System components of the Medical Instinct® implant systems may only be used by adequately trained dentists, surgeons and dental technicians. Methodological application errors may lead to the loss of the implants and injury to the patient.

Prosthetic components are not sterile when delivered and have to be sterilized prior to usage on the client. The (fractionated pre-vacuum process 132°C, duration 4 min. with a drying time of 20 min.).



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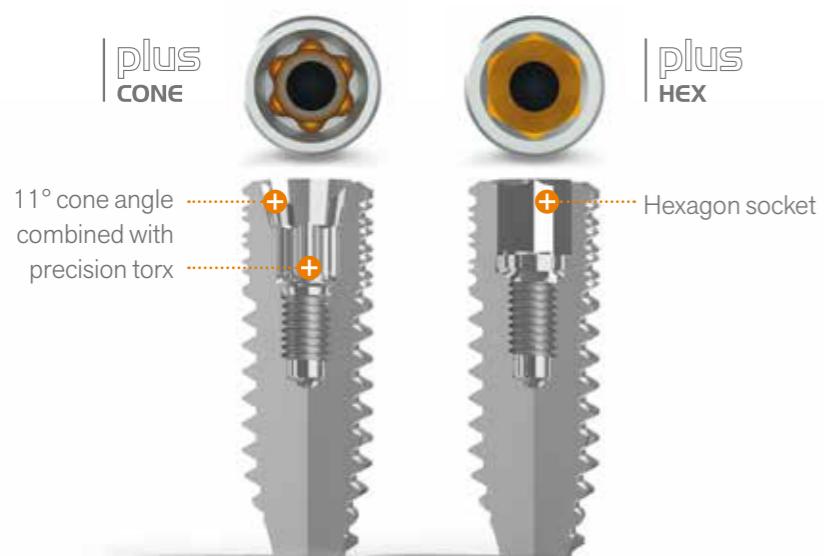
# SYSTEM OVERVIEW

bonetrust® | plus

# SYSTEM OVERVIEW

## BONETRUST® PLUS

Through the crestal bevelling of the implant body which is accompanied by an optimized diameter connection design of the prosthetic components, a harmonized platform switching for long-term stable bone preservation is realizable. An internal cone with torx or a precision hexagon socket are optionally available for the BoneTrust® plus implants as an anti-rotational mechanism.



### COLOUR CODING

Starting with the healing screw, all prosthetic components of the BoneTrust® plus systems have colour-coding to facilitate selection and allocation.

- 3.0 mm
- 3.4 mm
- 4.0 mm
- 5.0 mm



Integrated platform switching in the case of the BoneTrust® plus hex and cone implants

### GOOD TO KNOW!

The BoneTrust® plus hex and plus cone implants are each available in the diameters 3.0/3.4/4.0 and 5.0 mm. However, the internal connection and prosthetic platform differ in the hex and cone variants.

The hexagon socket in the BoneTrust® plus hex implants 3.4/4.0/5.0 is the same size. The hexagon socket of the 3.0 mm implant is smaller. In the case of the prosthetic platform, there are three sizes: 3.0 is smaller, 3.4 and 4.0 are equally large and 5.0 mm is larger. For this reason, some prosthetic elements (for example, the „Lucky Lock“ Abutment or the CAD/CAM titanium adhesive base) are

marked with 3.4/4.0 mm or yellow and red. This means that this component can be used on the implants indicated.

However, this is not the case for the BoneTrust® plus cone implants, due to the tapered internal connection. Here the internal connection in the case of the 5.0 mm implant is larger than in the case of the 3.4 and 4.0 mm implants. However, in the case of the cone implants as well, 3.4 and 4.0 mm implants have the same internal connection and the same prosthetic platform.

IMPLANTS:	● 3.0 mm	● 3.4 mm	● 4.0 mm	● 5.0 mm
bonetrust® plus HEX				
	Smaller internal connection 	Same internal connection 		
IMPLANTS:	● 3.0 mm	● 3.4 mm	● 4.0 mm	● 5.0 mm
bonetrust® plus CONE				
	Smaller internal connection 	Same internal connection 		Larger internal connection 



# PROSTHETIC SPECTRUM BONETRUST® PLUS HEX & CONE

ABUTMENTS	Seating Coping	Impression Coping RT	Impression Coping OT	Direct Impression Coping RT	Direct Impression Coping OT	Laboratory Analog	Laboratory Analog Direct			Esthetic Abutment 0°/15°/20°	Ceramic Base	Wide Body Abutment	UCLA Abutment Hex/Torx	UCLA Abutment Classic	TI-UCLA -Base Classic
INDICATION															
Single tooth restoration, cemented										+	+	+	+		
Single tooth restoration, occlusally screwed													+		
Bridge restoration, cemented										+	+	+	+		
Bridge restoration, occlusally screwed														+	+
Hybrid constructions															+
Temporary restoration single tooth	+									+	+				
Temporary restoration, splinted				+											+
Bar restoration															+
Occlusally screwed hybrid prosthesis															+
Telescopic restoration													+		
Prosthesis fixation				+	+										+
Impression/model fabrication		+	+	+	+	+	+								

RT= Repositioning Technique OT= Open Technique

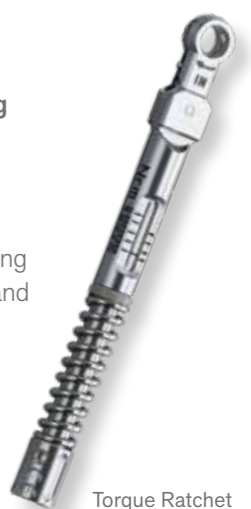
## IMPORTANT:

Available for Torx/Cone and internal Hex-connection



The recommended torque of all BoneTrust® retaining screws is 20 N/cm.

Implant cover screw, healing abutments and the retaining screw of the impression coping should only be screwed in hand tight.



Torque Ratchet

ABUTMENTS	CAD/CAM Flex Base 0°/15°	CAD/CAM Ti-Base 0°/15°	CAD/CAM Ti-Base short	CAD/CAM Ti-Base slim	CAD/CAM Ti-Base for Cerec®*	Milling Blank	Telescopic Abutment			Direct Abutment 0°/20°/30°	AuroBase Direct	Direct Ti-Base	Direct „Lucky Lock“ Abutment	„Lucky Lock“ Abutment
INDICATION														
Single tooth restoration, cemented		+	+	+	+	+								
Single tooth restoration, occlusally screwed		+	+	+	+	+								
Bridge restoration, cemented		+	+	+	+	+								
Bridge restoration, occlusally screwed	+								+	+	+			
Hybrid constructions	+	+	+	+	+				+	+	+			
Temporary restoration single tooth														
Temporary restoration, splinted	+									+				
Bar restoration	+									+	+	+		
Occlusally screwed hybrid prosthesis	+									+	+	+		
Telescopic restoration						+	+							
Prosthesis fixation											+	+	+	+
Impression/model fabrication														

\* Cerec® is a registered trademark of Sirona Dental GmbH.

The emergence profile of the BoneTrust® plus standard gingiva former precisely matches the anatomical shape and emergence profile of the Esthetic Abutments, depending on the respective gingival height.

(Image: Overlap of healing abutment with Esthetic Abutments)



# HEALING ABUTMENT BONETRUST® PLUS

## HEALING ABUTMENT DIFFERENCES



plus  
HEX

plus  
CONE

## STANDARD HEALING ABUTMENTS

Available in the heights 1.5/3.0/5.0/7.0 mm



1.5 mm

3.0 mm

5.0 mm

7.0 mm

## HEALING ABUTMENT WIDE BODY

The emergence profile of the Bone-Trust® Wide Body healing abutment precisely matches the anatomical shape and the emergence profile of the Wide Body Abutments.

Available for BoneTrust® plus hex or cone and the implants 3.4/4.0/5.0 mm.

Choose from the gingival heights 3.0 and 5.0 mm. ▼



## „SWISS“ HEALING ABUTMENT

The „swiss“ model has four strategically positioned holes for suturing the mucosa higher up on the healing abutment.

Available in the gingival heights 3.0 and 5.0 mm. Can be used for the implants 3.4/4.0/5.0 mm. ▶



## LABELLING OF THE BONETRUST® PLUS HEALING ABUTMENT

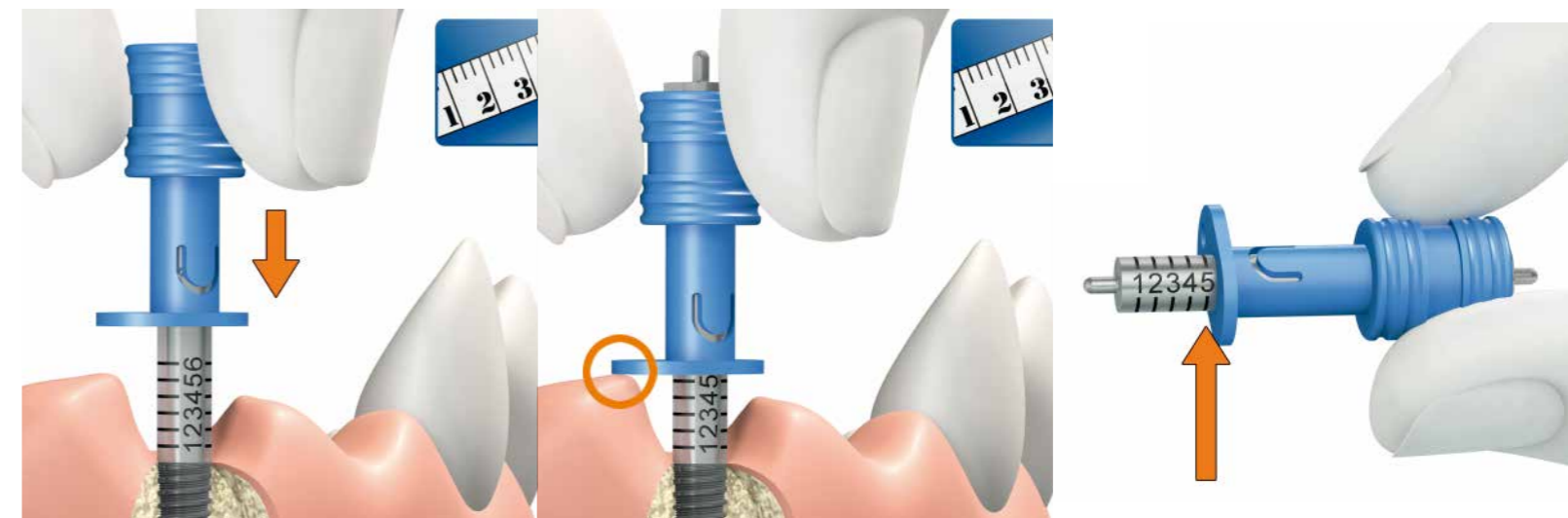


## ALTUS™ GAUGE

The Altus gauge enables precise measurement of the gingival height over the implant for precise determination and selection of the abutment height. As a result, abutments that are too low or too high are a thing of the past.

The gauge can be used for all diameters of BoneTrust® plus implants.

Article no.: 190-301700 ▼



# IMPRESSION

## OPEN TRAY TECHNIQUE BONETRUST® PLUS

Three versions of the impression posts for the open tray technique are available. A standard version with short or long screw and additionally an XL version with a long screw – to be used in the case of thicker gingiva.

The OT retaining screws are screwed through the actual impression posts and for this reason, they cannot become loose. As a result, the component can be easily and securely fastened with only two fingers or a screwdriver.



\* Impression posts OT with fixation screw, short  
\*\* Impression posts OT with fixation screw, long



**TIP:**

The perforation made in the impression tray can be gently sealed with wax prior to taking the impression. The retaining screw of the impression post is pressed through the wax and is easier to locate. In addition, no impression material will run out of the tray uncontrolled as a result and this makes neater work possible.

**TIP:**

To simplify the workflow and save time, it is recommended to send the dental laboratory the corresponding laboratory analogue at the same time.

**BONETRUST® PLUS LABORATORY ANALOGUES**

hex 3.0 mm  
Article no.: 185-030000

hex 3.4 mm  
Article no.: 185-034000

hex 4.0 mm  
Article no.: 185-040000

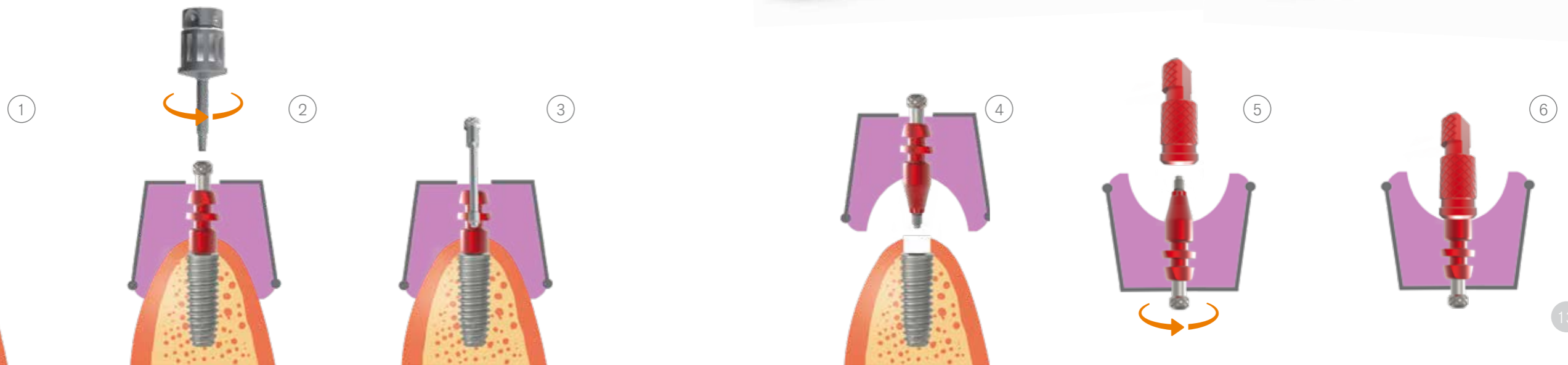
hex 5.0 mm  
Article no.: 185-050000

cone+ 3.0 mm  
Article no.: 285-030000

cone+ 3.4 mm  
Article no.: 285-034000

cone+ 4.0 mm  
Article no.: 285-040000

cone+ 5.0 mm  
Article no.: 285-050000





# IMPRESSION

## REPOSITIONING TECHNIQUE BONETRUST® PLUS

The impression posts for the repositioning technique are available in two lengths. The enclosed, precision-machined transfer cap can be felt and heard clicking into place which allows secure and precise repositioning in the impression.

The transfer abutment is provided with a standard retaining screw and transfer cap. When inserting the transfer cap, it should be ensured that the lugs of the cap point towards the flat sides of the impression post. During later repositioning of the long impression post in the impression, it should be ensured that the vertical guide groove on one side is once again correctly positioned. A screwdriver, hex 1.2 mm, is needed to screw the impression post for the open tray technique as well as for the repositioning technique.

**WARNING:** It must be absolutely ensured that the colour coding on the impression posts and transfer caps matches.

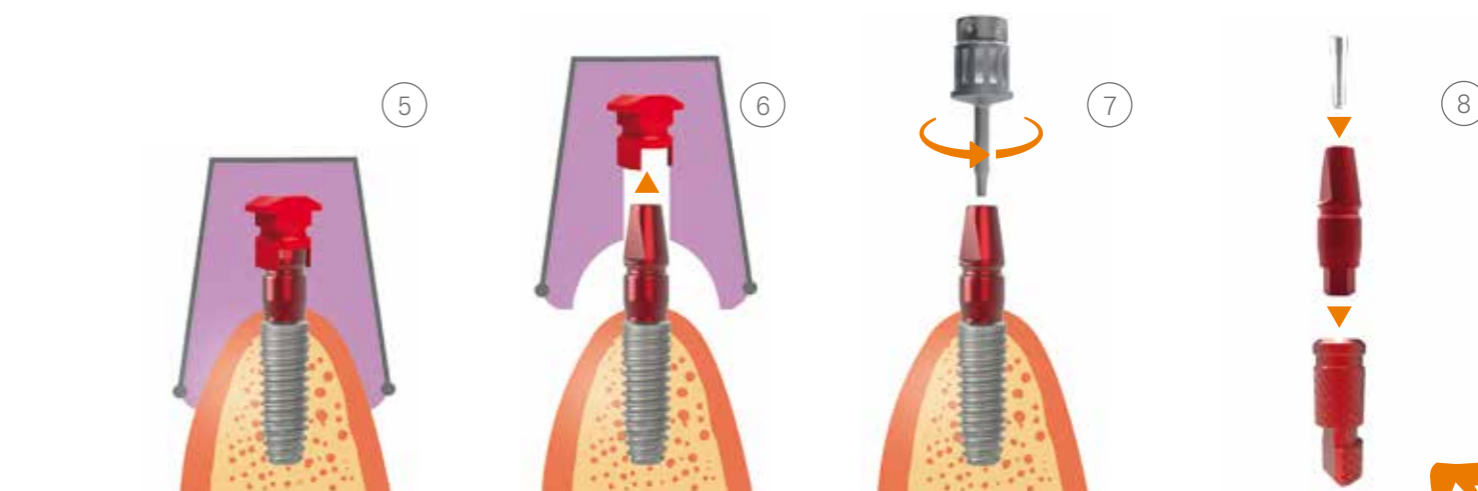
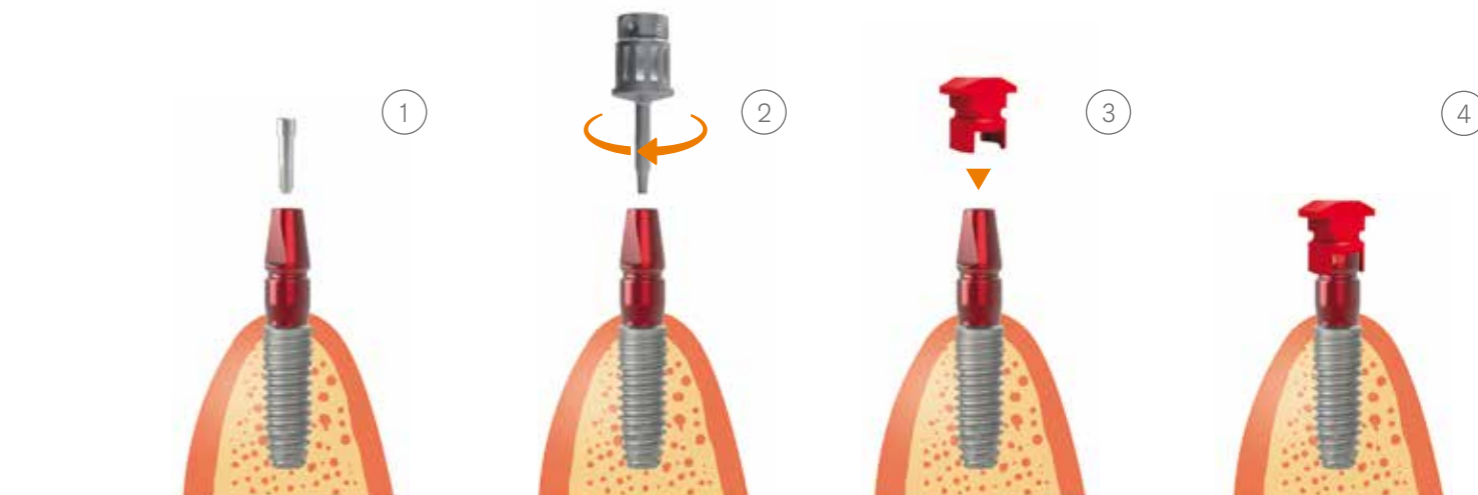
plus  
CONE



plus  
HEX



Unilateral guide groove for long repositioning posts



**TIP FOR STEP 8:**

After releasing the impression post from the implant, it can be screwed in immediately at the chair with the laboratory analogue and put back into the impression in order to directly verify correct positioning.

# ABUTMENTS FOR TEMPORARY RESTORATIONS

## IMPLANT ADAPTER (TEMPORARY ABUTMENT)

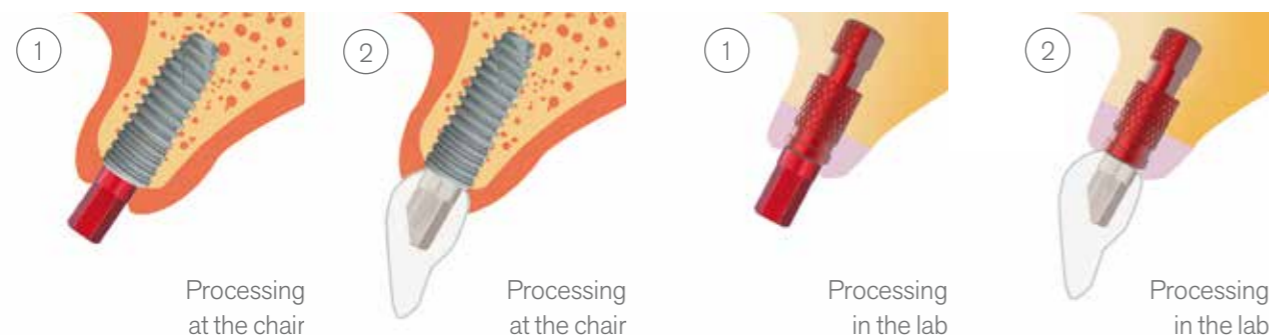
For secure insertion, all BoneTrust® plus implants are provided with a colour-coded implant adapter made of titanium which is secured using the retaining screw standard. The implant adapter can also be used for the insertion of temporary crowns.

Therefore, it should be removed after the exact positioning of the implants and ground down outside of the mouth. The customizing aid is recommended for a secure hold during grinding (page 19). Afterwards, the implant adapter can be covered with Opaker and once again screwed in with the implant.

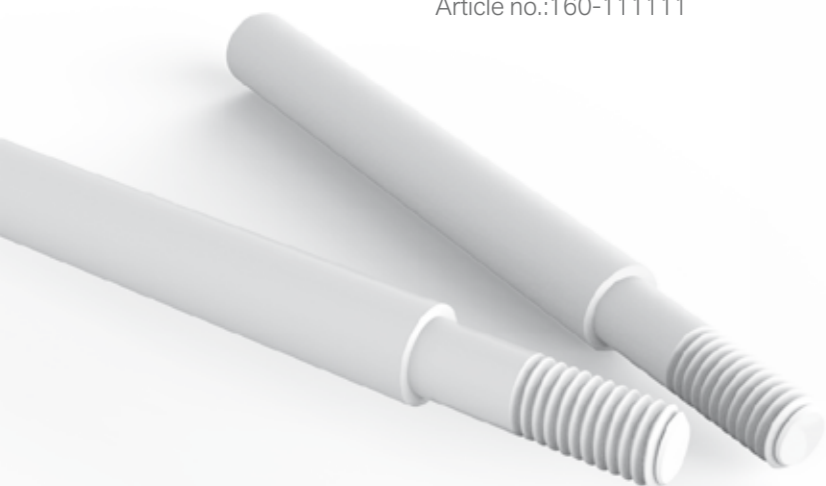
A temporary crown (e.g. Frasaco strip crown) can then be secured with a suitable plastic. To prevent plastic from flowing into the screw channel of the construction, the construction should be sealed beforehand with wax or a BoneTrust® POM-Stix.

Alternatively, the temporary restoration – according to the conventional procedure for the traditional crown technique – can be created in a dental laboratory on a corresponding working model.

**INDICATION:** Single tooth



**POM-STIX**, 10 pcs  
Article no.:160-111111



## TITANIUM SLEEVE CLASSIC (WITHOUT ANTI-ROTATIONAL MECHANISM)

A pattern resin key to check the impression can be made using the titanium sleeve including the enclosed OT screw. Likewise, the component for splinted temporary bridges and temporary prostheses can be used. In this case, the titanium sleeve can be shortened as desired and secured with the retaining screw standard.

**Titanium sleeve classic** 3.4 / 4.0 / 5.0 mm  
Article no.: 163-203440

**Titanium sleeve cone+** 3.4 / 4.0 mm  
Article no.: 263-203440



Production of a pattern resin key on the model



Checking the pattern resin key in the mouth



Occlusally screwed interim prosthesis which has been ground free basally

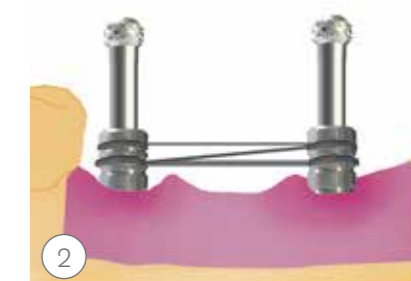
The Classic titanium sleeves are secured on the plaster model with the associated OT screw and can then be shortened and adapted, if needed.

The titanium sleeves can be connected with orthodontic wire to support a bridge tooth. Alternatively, a reinforcement structure can be modelled in wax and moulded.

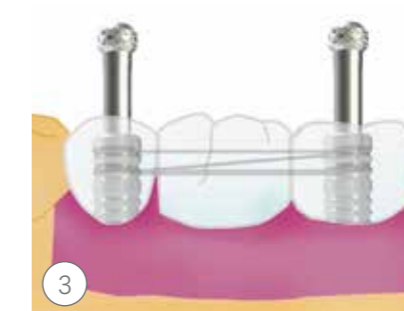
Now the temporary bridge can be created on the plaster model with plastic. It is inserted in the mouth using the retaining screw standard and a torque of 20 N/cm.



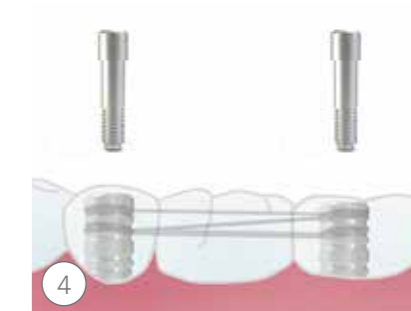
Classic titanium sleeves screwed on



Shortened titanium sleeves, splinted with wire



Creation of the temporary bridge on the model

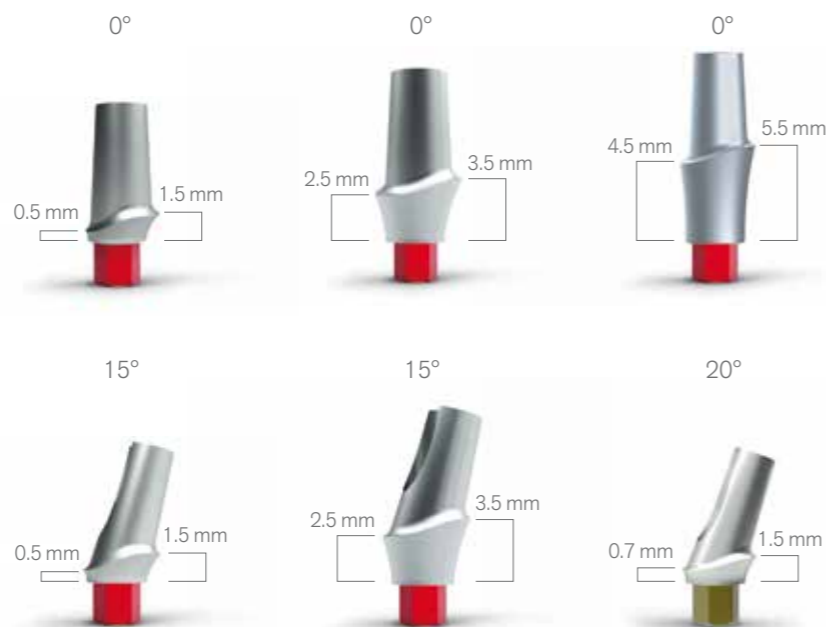


Placement of the finished temporary bridge in the mouth

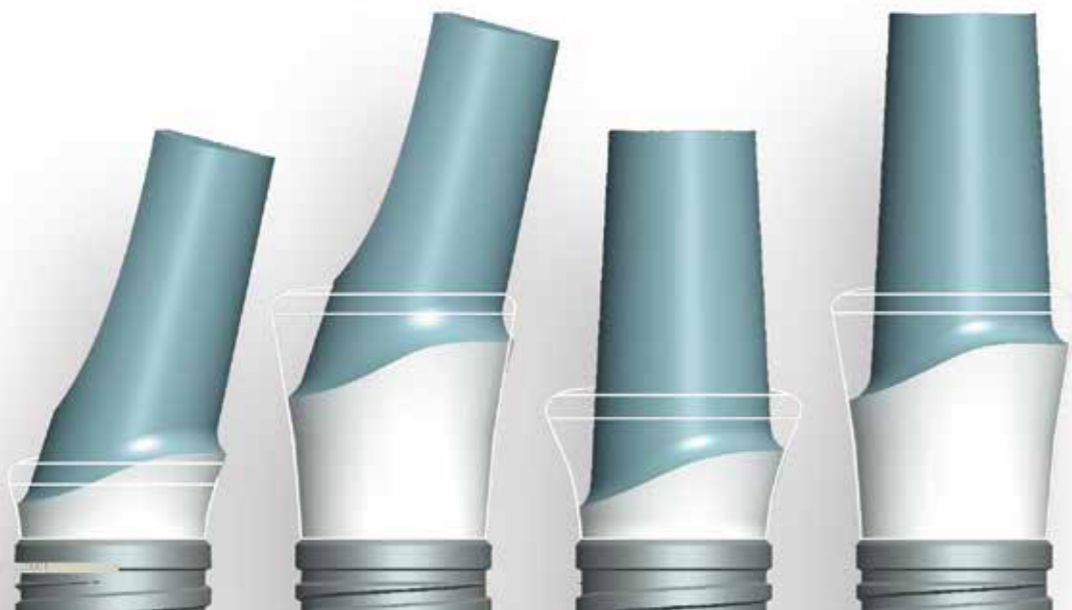
# BONETRUST<sup>®</sup> PLUS ESTHETIC ABUTMENTS

The BoneTrust<sup>®</sup> Esthetic Abutments are available in different gingival heights and angulations. They are characterized by an anatomical garland-shaped course which generally makes customisation unnecessary.

You can choose between optimised designs for PFM or all-ceramic crowns. For perfect esthetics, the soft tissue can be preconditioned with the coordinated healing abutments corresponding to the type of construction. These abutments have a very delicate design. They are available in 0°, 15° and 20° and in the gingival heights.



These abutments have a very delicate design. They are available in 0°, 15° and 20° and in the gingival heights 0.5 mm, 2.5 mm and 4.5 mm. The gingival height (GH) indicated in the catalogue refers to the lowest point of the abutment.



## CREATION OF A CEMENTED SINGLE TOOTH RESTORATION

Screwing into the working model



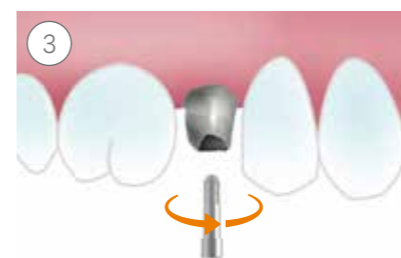
After the suitable Medical Instinct<sup>®</sup> Esthetic Abutment is selected, it is screwed onto the working model.

Customisation on the working model



Individually modified, taking the original anatomical position into account. For better grinding, the customisation tool is very helpful here as well. Afterwards, a PFM or all-cast crown can be made as usual.

Screwing the abutment into the mouth



For final insertion in the mouth, the abutment is inserted using a retaining screw standard and a torque of 20 N/cm.

**IMPORTANT:** A new retaining screw should always be used for final insertion in the mouth.

Cementing the crown



### HOLDER AND CUSTOMISATION TOOL

This tool is used to securely hold and customise implant abutments. In the stainless-steel handle, corresponding sockets for the various diameters and anti-rotational mechanisms (cone & hex) of the BoneTrust<sup>®</sup> implant systems can be used. The set can be used for all BoneTrust<sup>®</sup> plus abutments (cone & hex).



# UCLA ABUTMENTS

## HEX/CONE BONETRUST® PLUS

### WIDE BODY ABUTMENTS

Wide Body abutments make it possible to switch to a wide prosthetic platform. Specially developed for restorations with all-ceramic crowns. Harmonious, rounded design (chamfer) Triangular, rounded modelling aid as an anti-rotational mechanism for the crown.

For optimal shaping of soft tissue, correspondingly dimensioned healing abutments are available. Available for BoneTrust® plus hex and cone implants 3.4/4.0/5.0 mm in the gingival heights 3.0 mm and 5.0 mm. Diameter 6.0 mm and 7.0 mm. ▶

**NOTE:** The retaining screw standard is necessary for fixation

Article no.: 160-100001



For implants 3.4 und 4.0 mm

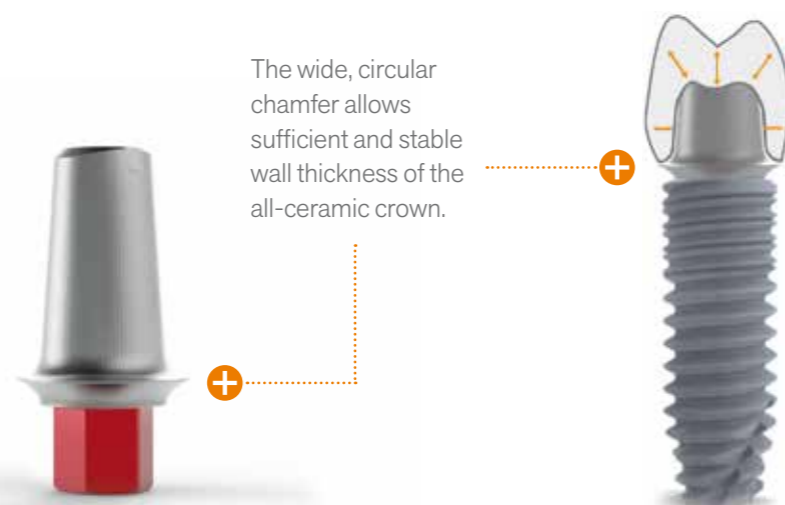


For implants 5.0 mm



### CERAMIC BASE

The extremely low distance height of only 0.7 mm, the oval modelling aid as an antirotational mechanism for the crown and the harmoniously rounded design were specially developed for restorations with all-ceramic crowns. ▼



Medical Instinct® UCLA Abutments are available with and without an anti-rotational mechanism and enable the individual production of abutments as well as bar and bridge constructions. Components for casting with high-fusing alloys HFA (PA) and non-precious metals NPM(NPA) are available.

Due to the extremely low distance height, it is possible to extend ceramic veneers to the lowermost points. The plastic modelling aid can be removed from the abutment when the adhesive technique (passive fit) is used. ▼



**NOTE:** The retaining screw standard is necessary for fixation

Article no.: 160-100001

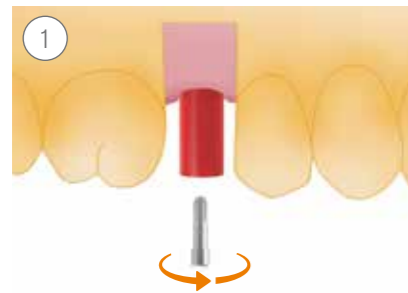


The BoneTrust® UCLA Abutments are available with and without an antirotational mechanism for the hex and cone connection in 3.0 mm, 3.4 mm, 4.0 mm and 5.0 mm. ▶



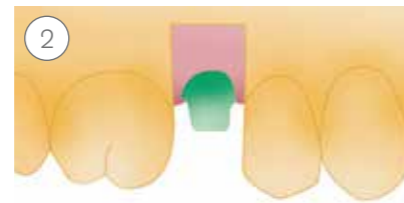
## MAKING AN INDIVIDUALLY CAST ABUTMENT

Insertion of the abutment into the laboratory analogue



The UCLA Abutment is placed on the working model in the laboratory analogue and the retaining screw is tightened by hand.

Individual mode

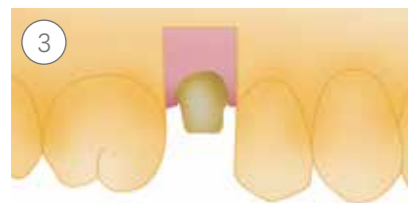


After shortening the modelling channel, the abutment is modelled in the desired shape with wax. The wax model may not extend over the metal plate and the metal plate may also not be ground.

**INDICATIONS:** For screwed and cemented prosthetics, occlusally screwed individual crowns, telescope restorations and individually cast abutments. Can also be used as an adhesive base.

**NOTE:** For processing in the laboratory, a separate retaining screw standard (working screw) should always be used.

Cast and completed abutment



The finished model is now cast and prepared in a low-precious-metal alloy or precious metal alloy.

Cementing the crown in the mouth



After completing the individual abutment, the PFM crown can now be conventionally made.

**NOTE:** The retaining screw standard is necessary for fixation.

Article no.: 160-10001



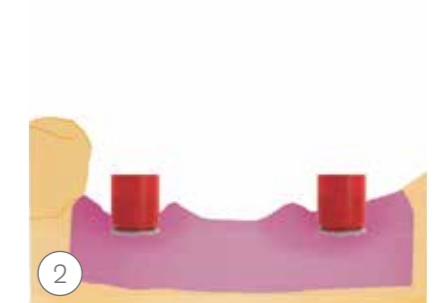
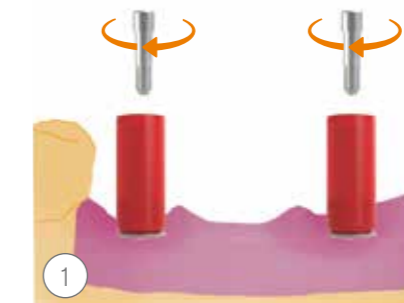
UCLA Abutments with an anti-rotational mechanism



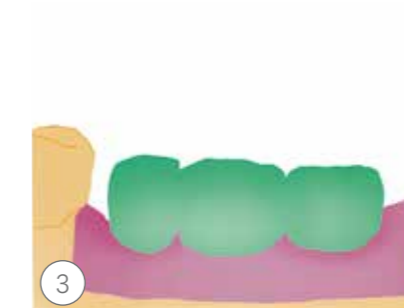
## PRODUCTION OF AN OCCLUSALLY SCREWED BRIDGE RESTORATION

After shortening the modelling channel, the veneer framework is modelled in wax. If a ceramic veneer is intended, it should be ensured that underdimensioned models allow the thickness of the ceramic to be sufficient and even. ▶

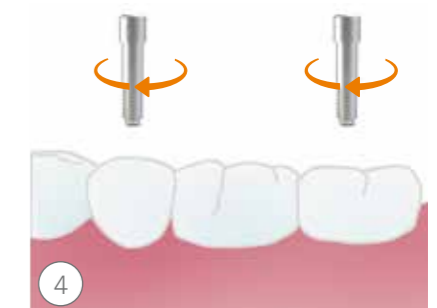
**INDICATIONS:** For screwed, splinted prosthetics, occlusally screwed bridges, cast bars and occlusally screwed hybrid prostheses.



Shortening the modelling channels



Modelling the veneer framework in wax



Occlusal screwing of the finished PFM bridge in the mouth

## PRODUCTION OF A CAST, MILLED BAR

The UCLA Abutments without an anti-rotational mechanism are screwed to the model analogue in the working model and appropriately shortened.

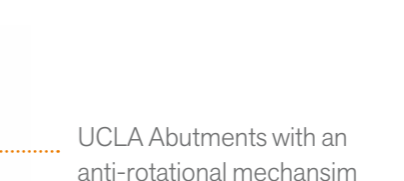
Then the bar is correspondingly modelled in wax in the desired shape, milled and cast in a metal alloy and completed. ▶



UCLA Abutments on the model, splinted with plastic or wax without tension



Finished bar wax model



Finished metal bar



UCLA Abutments with an anti-rotational mechanism

# PROCESSING INSTRUCTIONS FOR UCLA ABUTMENTS

## PROCESSING

Be sure that no ceramic components of the UCLA Abutment tower the surfaces to be veneered, because ceramic does not adhere to Platinum/Gold. This excludes the risk of cracks in the ceramic.

Align the casting channel according to the regulations of the metal producer. Ensure that your cast alloy reaches the UCLA Abutment by the shortest path for providing the efficient amount of the thermal energy for an optimal sprue.

If you use a wax degreasing agent, ensure that you apply it only on the wax model. Under no circumstances the wax degreasing agent shall be applied to the UCLA Abutment, as there is danger that during the casting process metal flows to these areas.

Mix the required embedding compound. Hold the rubber pads vertically on the dental vibrator. Let the embedding component flow through the UCLA with a tube. Put a casting ring on fill up the muffle with the embedding compound.

**To achieve an exact casting on Pt/Au UCLA Abutment, during the preheating let the final temperature take effect on the muffle with a minimum of 45 minutes.**

Ensure that during the divesting, the embedding compound in the region of the UCLA Abutment is removed, if possible, only in ultrasonic bath.

Should you blast the framework in the region of the UCLA Abutment, use only the fine blasting agent and reduced working pressure of maximum 2 bar.



## UCLA ABUTMENTS “CLASSIC” AND “HEX/TORX” (PRECIOUS ALLOY)

UCLA (Pt/Au) / (PA) Abutments, Platinum-Gold alloy, are capable of being cast on exclusively precious alloys. Plastic modeling aid is combustible without residues.

### ALLOY DATA (STATUS: 03/2011)

Composition	Au 61,0%, Pt 23,8%, Pd 15,0%, Ph 0,2 %
Color	white
Melting range (°C)	1 360–1 460 °C
CTE value	13.2
Vickers hardness HV	250
0,2 % yield strength (daN/mm <sup>2</sup> )	78
Tensile strength (daN/mm <sup>2</sup> )	82
Break elongation (%)	15
Heat treatment	0–700 °C, 30 min. slow cooling

## UCLA ABUTMENTS „CLASSIC“ UND „HEX“ (NON-PRECIOUS ALLOY)

UCLA (Pt/Ir) / (NPA) Abutments, Platinum-Iridium alloy, are capable of being cast on exclusively non-precious alloys. Plastic modeling aid is combustible without residues.

### ALLOY DATA (STATUS: 09/2011)

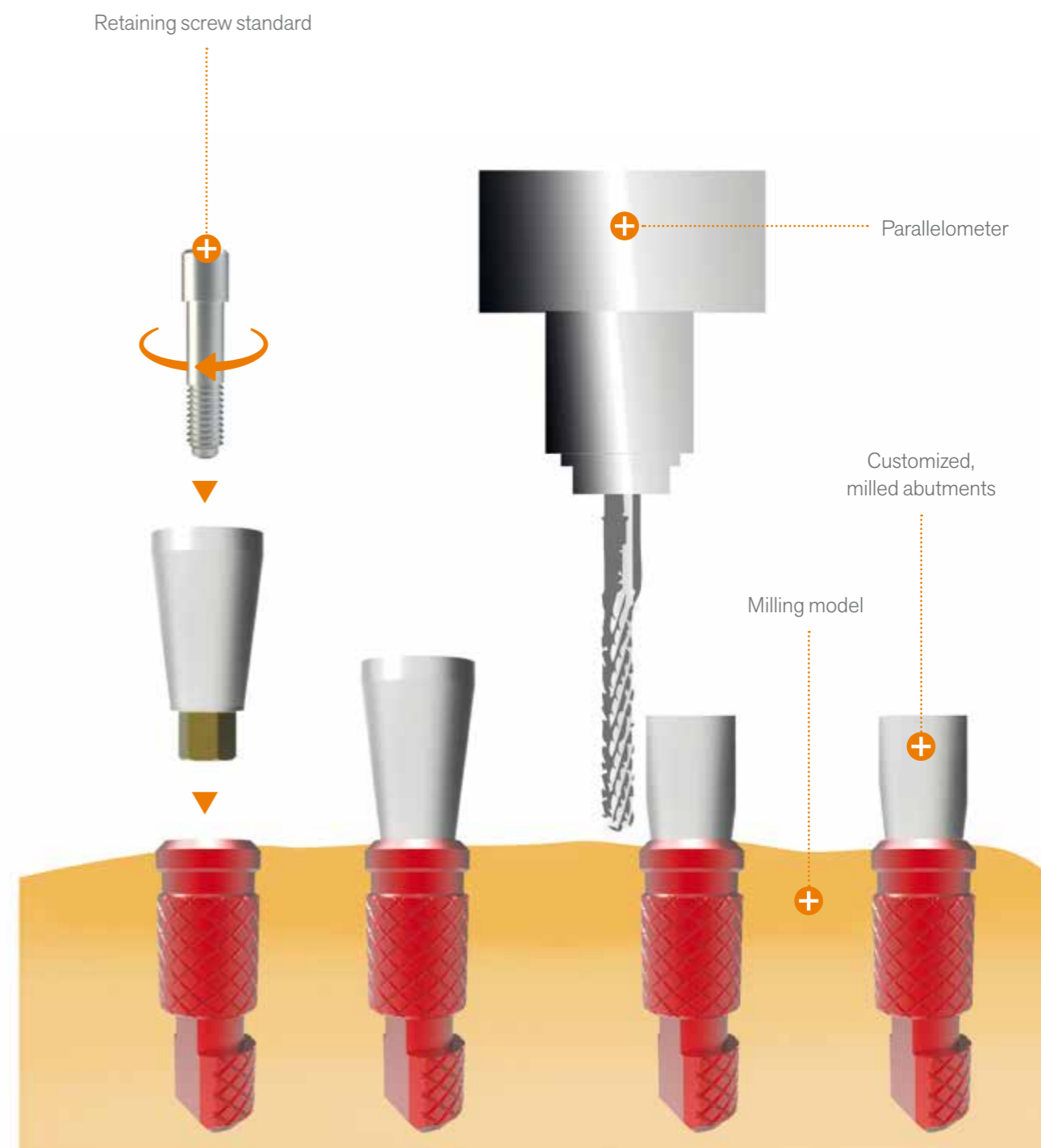
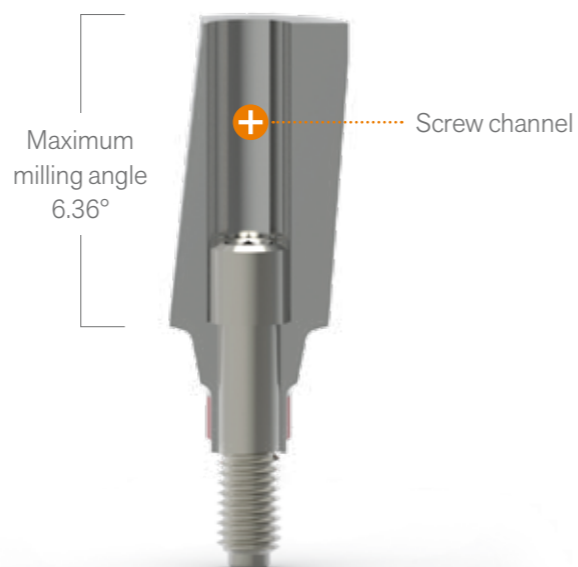
Composition	Pt 80,0%, Ir 20,0 %
Color	white
Melting range (°C)	1 830–1 855 °C
CTE value	8,4
Vickers hardness HV	225
0,2 % yield strength (daN/mm <sup>2</sup> )	55
Tensile strength (daN/mm <sup>2</sup> )	72
Break elongation (%)	18
Heat treatment	0–700 °C, 30 min. slow cooling

# BONETRUST<sup>®</sup> PLUS TELESCOPIC ABUTMENT TITANIUM

The reverse-tapered Telescopic Abutment Titanium fits BoneTrust<sup>®</sup> plus hex, cone implants and is used for simple and convenient production of primary parts for the telescope technique.

**NOTE:** The retaining screw standard is necessary for fixation.

Article no.: 160-100001





# BONETRUST® PLUS CAD/CAM ABUTMENTS OVERVIEW

## CAD/CAM LIBRARIES

Digitalization is becoming more and more important in the production of superstructures.

As your innovative partner in dental implantology, Medical Instinct® offers a variety of prefabricated structural concepts and digital solutions which will allow you to react optimally to requirements in a rapidly changing market.

Would you like to utilize the CAD software and libraries of leading suppliers or work completely freely with „open STL data“? We offer you digital freedom!

Medical Instinct® Original CAD/CAM Abutments facilitate your workflow and ensure the highest standards of quality and precision.

The downloads are available on our website free of charge.

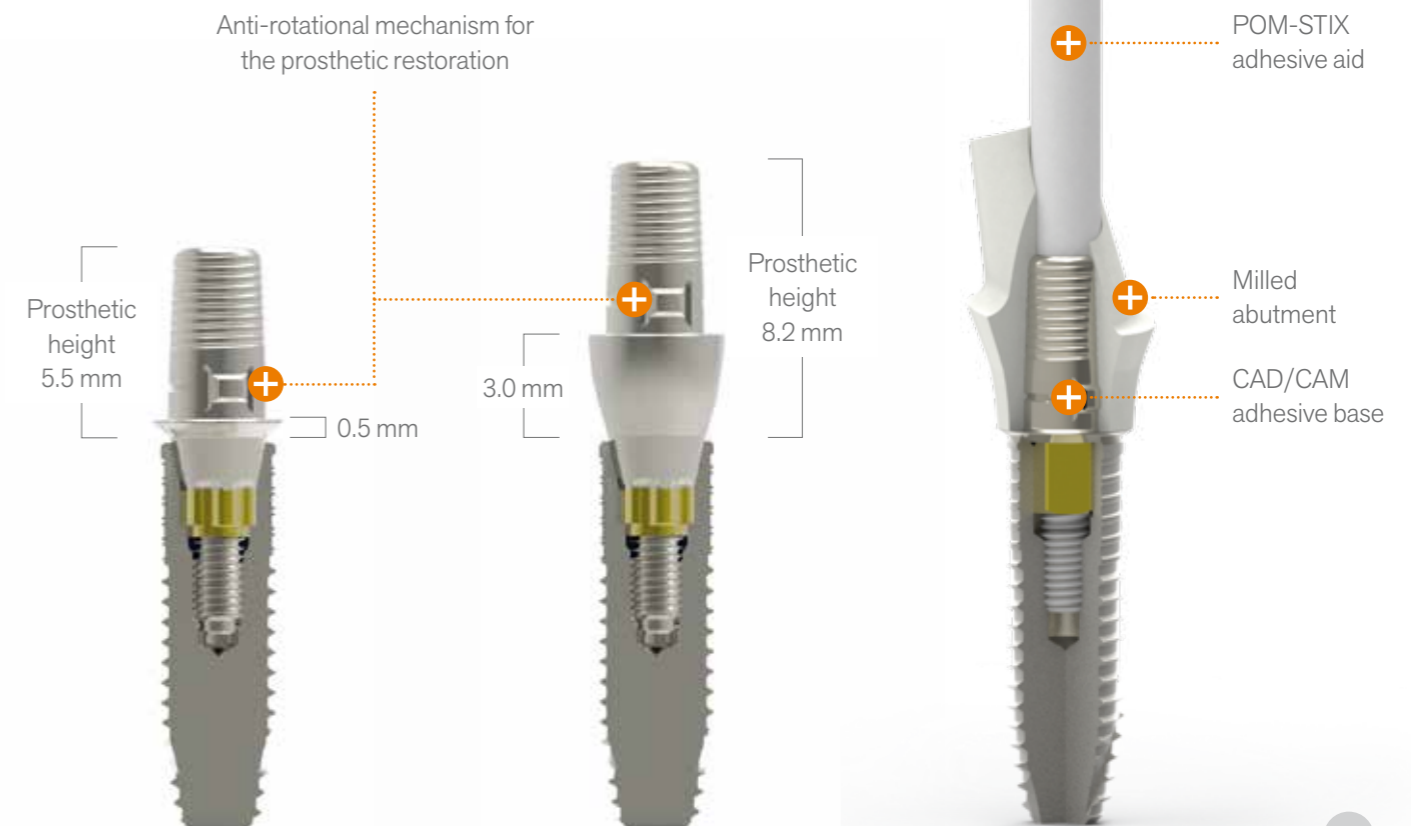
[Medical Instinct® > Downloads](#)



## ADHESIVE BASES TITANIUM

Original BoneTrust® CAD/CAM adhesive bases are the optimal base for individual hybrid abutments or adhered all-ceramic crowns and bridges. The transfer is performed using the corresponding scan cap. Fits BoneTrust® plus hex and cone implants and available for all diameters in 0° and 15°. Delivery includes standard retaining screw.

The CAD/CAM adhesive bases titanium Slim Line are ideally suited for small holes and poor mucosal conditions due to the reduced plate angle and narrow design. CAD/CAM adhesive bases titanium Slim Line ▶



### SCANNING THE BONETRUST® CAD/CAM TITANIUM ADHESIVE BASES ON THE MODEL

The BoneTrust® CAD/CAM titanium bases can be directly scanned with conventional dental scanners and the digitally recorded geometry can be used to produce a prosthetic restoration with CAD/CAM techniques.

Although the screw channel must be sealed with a removable material prior to scanning. The retention grooves and the undercut of the anti-rotational mechanism are blocked. The surface to be scanned is wetted with scan spray and then the CAD/CAM titanium base can be scanned.

However, to achieve precise results, scanning must be performed using the Scan Abutment PEEK or the scan cap for the adhesive base titanium. The corresponding geometries are already stored in or can be entered into many dental CAD systems.

**NOTE:** The processing of angulated adhesive bases requires 5-axis milling machines and special requirements regarding the milling software. Please inquire with your milling machine manufacturer whether your milling system meets these preconditions.

**NOTE:** When scanning angulated ti-bases the nose of the scan abutment has to be in the same angle as the ti-base.

### SCAN CAP FOR CAD/CAM ADHESIVE BASE TITANIUM

For scanning and transferring the implant position in conjunction with the CAD/CAM adhesive base titanium. Suitable for BoneTrust® plus hex and cone.

Delivered in packs of 2. ▶

□ Scan-Cap for CAD/CAM adhesive bases titanium 3.0 mm  
Art no.: 166-344052

**NOTE:** Also suitable for CAD/CAM adhesive bases titanium slim line

□ Scan cap for CAD/CAM adhesive bases titanium 3.4/4.0/5.0 mm  
Art no.: 166-344053



### SCAN ABUTMENT

For easy scanning and transferring of the implant position without an adhesive base. Available for BoneTrust® plus hex and cone. Delivery includes retaining screw.

#### Scan-Abutment hex

3.0 mm | Art no.: 166-300000

3.4/4.0/5.0 mm | Art no.: 166-344000

#### Scan-Abutment cone+

3.0 mm | Art no.: 166-300000

3.4/4.0 mm | Art no.: 266-344000

#### Scan-Abutment cone+

5.0 mm | Art no.: 266-500000



### CAD/CAM ADHESIVE BASES TITANIUM SHORT

The adhesive base for extremely minimally vertical space conditions. Available, as a scan set, consisting of an adhesive base titanium short, scan cap, and standard, retaining screw.

#### Adhesive bases titanium short

3.4/4.0 mm | Art no.: 166-203440

#### Adhesive bases titanium short cone+

3.4/4.0 mm | Art no.: 266-203440 ▼



### POM-STIX – ADHESIVE AIDS FOR ADHESIVE BASES

The new POM-STIX greatly facilitate the handling of adhesive bases. They protect the screw channel from grit, composite materials and adhesives. The adhesive aids have a thread, can be easily screwed in by hand or using the hex screwdriver and they hold the abutment in place securely. The POM-STIX can be easily released later since they do not adhere to conventional composites. Can be used with BoneTrust® plus hex and cone CAD/CAM titanium adhesive bases.

Packaging unit: Pack of 10. | Article no.: 160-111111

- + Secure fixation of the abutment
- + Protection of the screw channel from adhesives and grit
- + Can be easily released/ does not bind to composite materials

**NOTE REGARDING ADHESION:** To adhere the BoneTrust® CAD/ CAM titanium bases and the prosthetic restoration, we recommend Multilink® Hybrid Abutment\* from Ivoclar Vivadent AG, or PANA VIA™ F 2.0\*\* from Kuraray Europe GmbH. For the adhesion, please follow the respective manufacturer's instructions for handling its adhesive.



### RETAINING SCREW TORX

Different scopes of designs can be offered during the production of crowns, bridges and bar constructions due to the BoneTrust® retaining screw torx. In combination with the special Screwdriver torx Handpiece a shifting of the screw canal access is possible. It allows an angulation up to 20° for esthetic and functional purposes.

Article no.: 160-100111 ▶

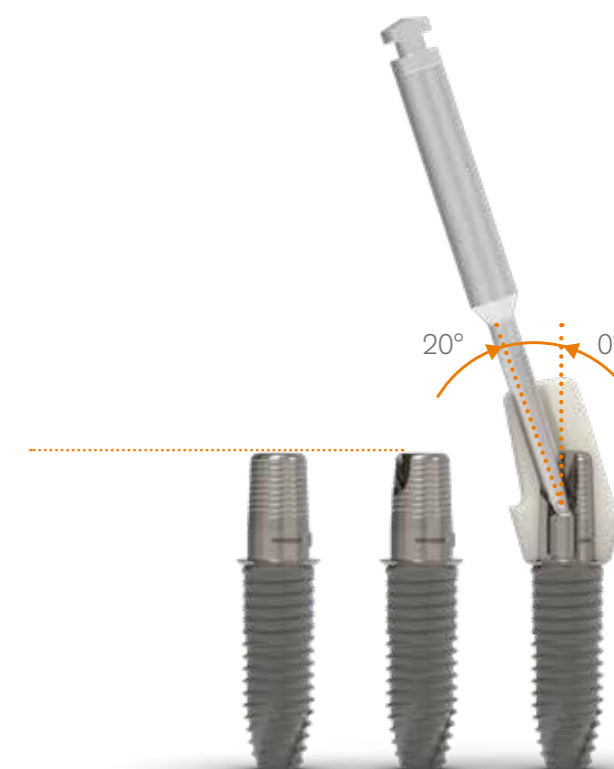


**NOTE:** The screw canal of titanium adhesive bases needs to be opened according to the bending.

**ATTENTION:** Retaining screws torx can only be used in addition to the usage of the BoneTrust® screwdriver torx handpiece. The tightening torque is 20 N/cm.

### SCREWDRIVER TORX HANDPIECE

Article no.: 190-101215 ▼



\* Multilink® Hybrid Abutment is a registered trademark of Ivoclar Vivadent AG.  
\*\* PANA VIA™ F 2.0 is a registered trademark of Kuraray Europe GmbH.

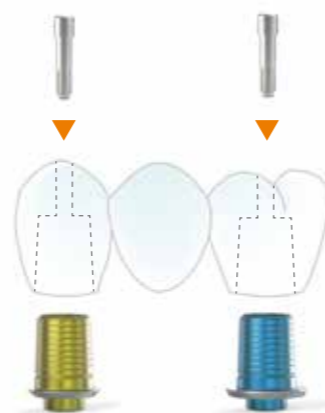


## CAD/CAM FLEXBASES

FlexBase Abutments offer maximum flexibility for milled and tension-free adhered framework constructions, such as bars, occlusally screwed bridges or hybrid solutions.

Since the abutments do not have anti-rotational mechanisms and since they are available in straight as well as angled versions, angulations can be easily compensated. Delivery includes standard retaining screw.

The all-ceramic bridge is adhered to the FlexBases and can then be occlusally screwed in the mouth. ▶

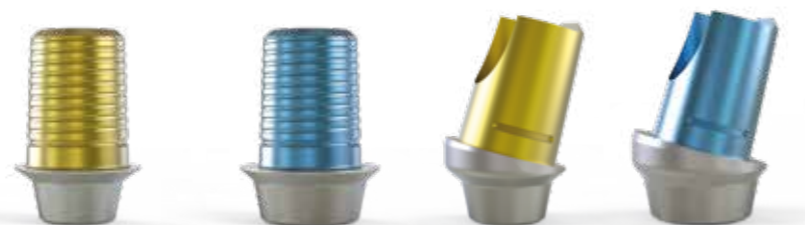


plus  
HEX



FlexBase for BoneTrust® plus hex and BoneTrust® plus cone 0° and 15°

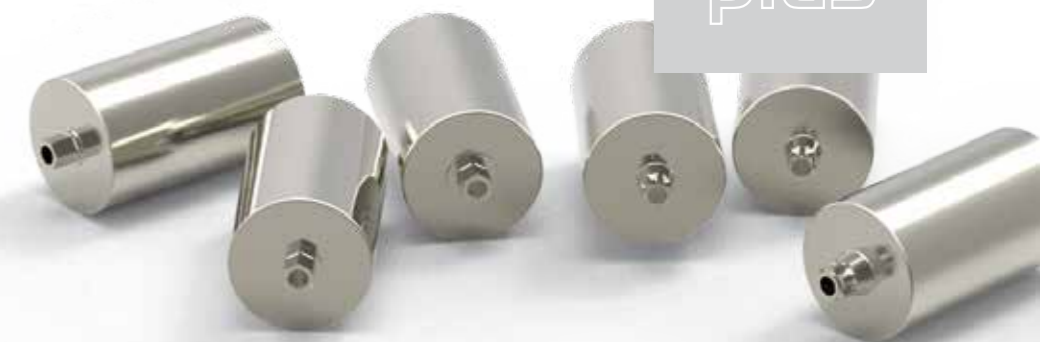
plus  
CONE



## SCAN-CAP FOR CAD/CAM FLEXBASE

Scan cap for transferring the position of the implant/ construction of all FlexBase Abutments. Suitable for BoneTrust® plus hex and cone. Delivery in packs of 2.

Article no.: 166-344051



## MEDICAL INSTINCT® MILLING BLANKS

The original BoneTrust® plus milling blanks, made of grade 5 titanium, allow you to produce one-piece, customised titanium abutments. As a result, the prefabricated BoneTrust® plus original connection guarantees you maximum precision and an accurate fit.

**YOUR BENEFIT:** Perfectly fitting abutments and the Medical Instinct® original parts guarantee.

Available for a variety of abutment holders.

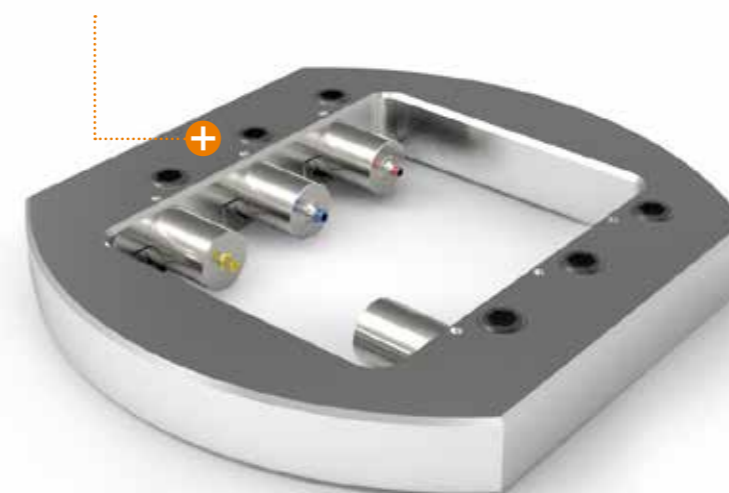
The Scan Abutment PEEK is used for the model scan.

The premilled BoneTrust® plus milling blanks are compatible with Medentika® PreFace® Abutment holders.

The downloads with the CAM strategies are available on our website free of charge.

[Medical Instinct® > Downloads](#)

Medentika® PreFace® alignment for milling blanks. These need to be ordered directly from the machine manufacturer.



## MILLING BLANKS

**BoneTrust® plus hex**  
3.4/4.0 mm  
Article no.: 166-MH3440

**BoneTrust® plus hex**  
5.0 mm  
Article no.: 166-MH5000

**BoneTrust® cone+**  
3.4/4.0 mm  
Article no.: 266-MC3440

**BoneTrust® cone+**  
5.0 mm  
Article no.: 266-MC5000

**NOTE:** The retaining screw standard is necessary for fixation.

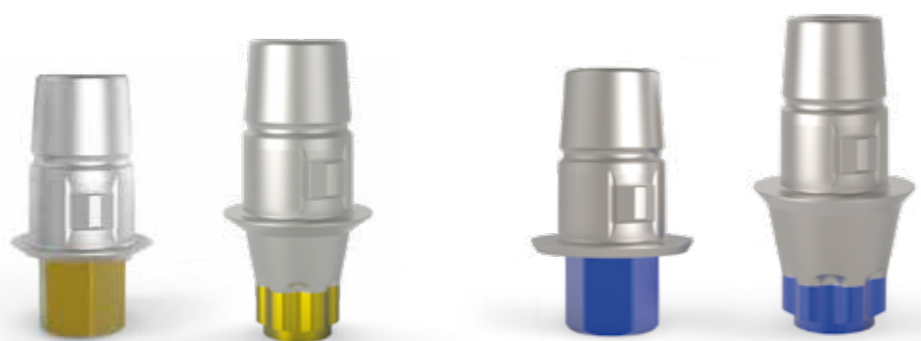
Article no.: 160-100001



\* Medentika® PreFace® is a registered trademark of Medentika GmbH.

# CAD/CAM TI - BASE FOR CEREC<sup>®</sup> \*

For the BoneTrust<sup>®</sup> plus im-plant system, the CAD/CAM titanium bases for CEREC<sup>®</sup> are available exclusively from Medical Instinct<sup>®</sup>. Delivery includes standard retaining screw.



## INDICATIONS:

- + Single tooth and bridge restoration, cemented
- + Single tooth supply occlusally screwed
- + Individual Hybrid Abutments

**Scanbody S for Omnicam**  
(36 Pieces) – color gray  
Article no.: 64 31 311



**Scanbody S for Bluecam**  
(36 Pieces) – color white  
Article no.: 64 31 295



## Healing cap for CAD/CAM Titanium base CEREC<sup>®</sup>

Cap for protection of the abutment and sensitive soft tissue structures during the superstructure production. Fast and easy treatment plan. There is no need to remove the abutment again.

Healing cap for CAD/CAM Titanium base CEREC<sup>®</sup>, 3.4/4.0 mm  
Article no.: 166-313440

Healing cap for CAD/CAM Titanium base CEREC<sup>®</sup>, 5.0mm  
Article no.: 166-315000

Packaging unit: Set of 2 ▶



**NOTE:** Please contact your dealer/ dental depot for Scanbodies and ceramic blocks.

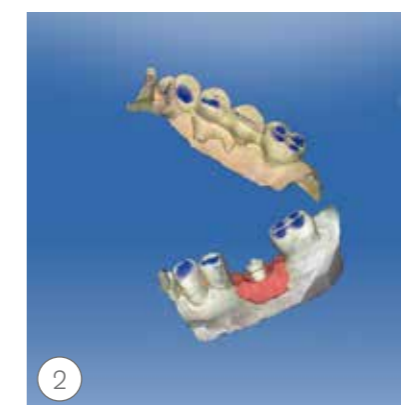
Always use blocks size S ▼



# MANUFACTURING OF AN OCCLUSALLY SCREW-RETAINED BRIDGE RESTORATION



- + Administration
- + Define restoration
- + Abutment



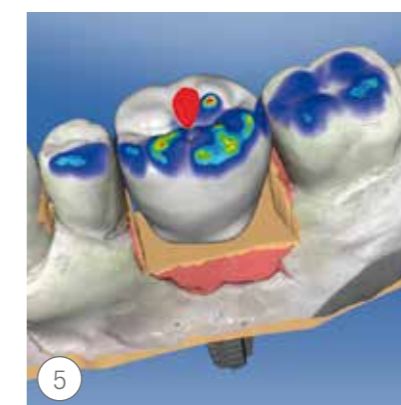
- + Scan Plaster model or intra-oral
  - + Use Scanbody S for Bluecam (64 31 295)
  - + Use Scanbody for Omnicam (64 31 311)
  - + Scanbodies are available from your dealer/dental depot



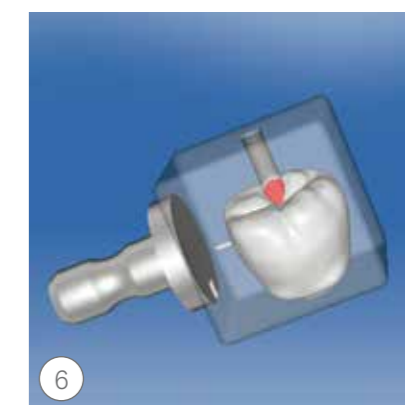
- + Material selection
  - + Sirona inCoris ZI meso
  - + Ivoclar Vivadent IPS e.max
  - + Always use blocks size S



- + Scanbodytyp TiBase
- + Choose Camlog<sup>®</sup>\*\*
  - + Camlog<sup>®</sup>\*\* 3.8 mm for Medical Instinct<sup>®</sup> Ti-Base 3.0/4.0 mm
  - + Camlog<sup>®</sup>\*\* 4.3 mm for Medical Instinct<sup>®</sup> Ti-Base 5.0 mm



- + Abutment Design



- + Milling Abutment

\* CEREC<sup>®</sup> is a registered trademark of Sirona Dental GmbH.  
\*\* Camlog<sup>®</sup> is a registered trademark of Camlog AG.

# BONETRUST<sup>®</sup> PLUS DIRECT ABUTMENTS



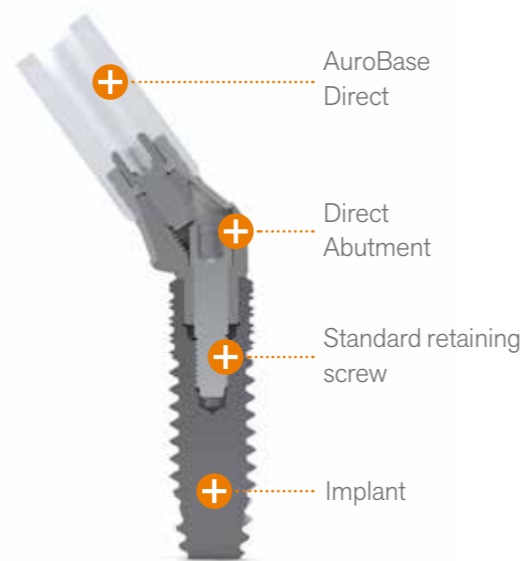
AuroBase Direct ▲



## DIRECT ABUTMENTS/CONCEPT

Within the direct concept, the distal implants can be intentionally positioned obliquely to fully utilize local bone if less bone is available and possibly avoid a complicated augmentation. The angulation of the abutments of up to 30° ensures a uniform insertion direction. The impression post was designed as a Universal Abutment and can, for example, be directly incorporated via polymerisation in the available prosthesis as an interim restoration. For extensive restorations, crown bases or casting with high-fusing alloys (HFA) and non-precious metals (NPM) are available.

The abutments are available in 0°, 20° and 30°.



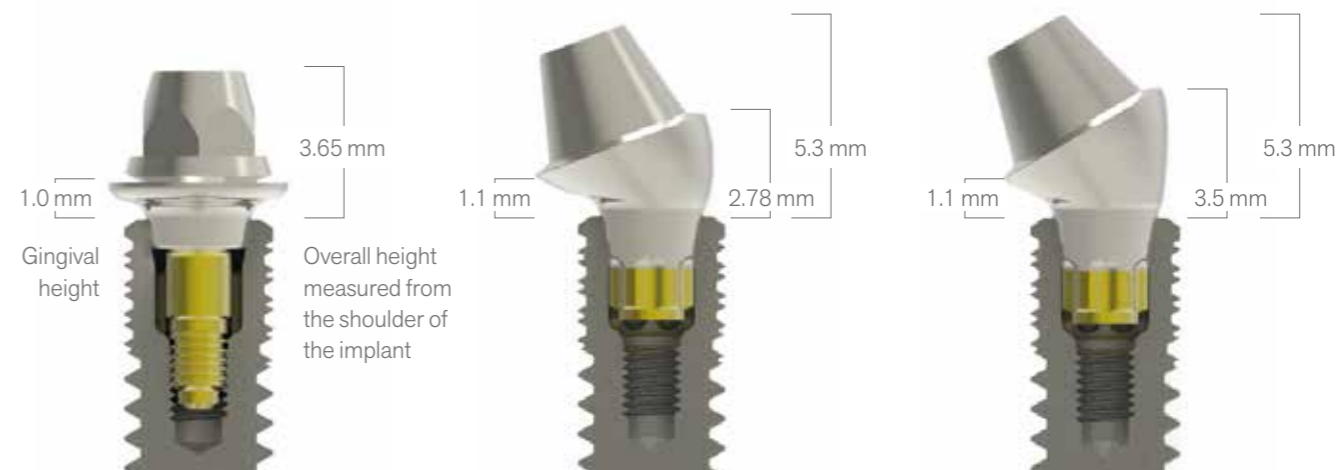
**NOTE:** Only a limited direct construction program is available for the 3.0 mm BoneTrust<sup>®</sup> plus implants in order to avoid overloading these reduced-diameter implants. Please take this into consideration during your prosthetic planning.

The 3.0 mm BoneTrust<sup>®</sup> plus implants should only be used for support in combination and for additional abutments with the reduced amount of bone volume.



## INDICATIONS:

- For splinted and occlusally screwed prosthetics, such as bridges, hybrid prostheses and cast bars, for example



Direct Abutment  
0°, Ø 3.0 mm, GH 1.0 mm

Direct Abutment  
0°, Ø 3.4/4.0 mm, GH 1.0 mm

Direct Abutment  
0°, Ø 3.4/4.0 mm, GH 3.0 mm

Direct Abutment  
20°, Ø 3.4/4.0 mm, GH 2.0 mm

**NOTE:** The retaining screw standard is needed to secure the 20-degree and 30-degree Direct Abutments.

Direct Abutment  
30°, Ø 3.4/4.0 mm, GH 2.0 mm

Article no.: 160-100001

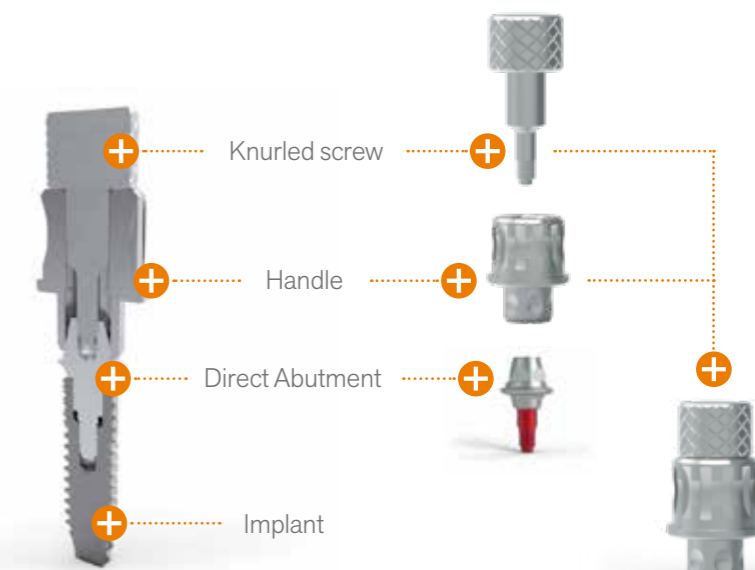


## DIRECT INSERTION TOOL

Medical Instinct<sup>®</sup> offers a two-part special instrument for easier insertion of Direct Abutments.

The handle is placed on the Direct Abutment and tightened with the knurled screw. In this way, the abutments can be easily inserted even in poorly accessible areas and tightened with the prosthetic ratchet with the specified torque of 20 N/cm.

Article no.: 190-101220





### DIRECT IMPRESSION POSTS OPEN TRAY TECHNIQUE

For taking open impressions of the Direct Abutments above the mucosal level. Can also be used as an all-in-one abutment for polymerisation and fixation of complete dentures during immediate restoration. In this case, please also order the direct retaining screw. Suitable for BoneTrust® plus implants in connection with the Direct Abutment. Includes OT retaining screw.

Article no.: 165-103440

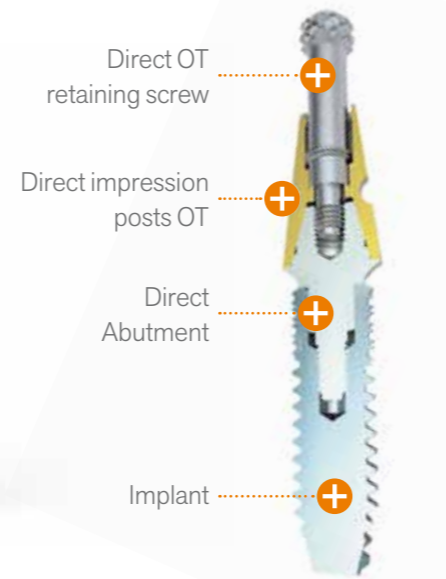
#### INDICATION:

+ For taking open impressions. Can also be used for splinted temporary bridges and restorations on Direct Abutments.

**NOTE:** The direct impression posts do not fit on the Direct Abutments 3.0 mm.

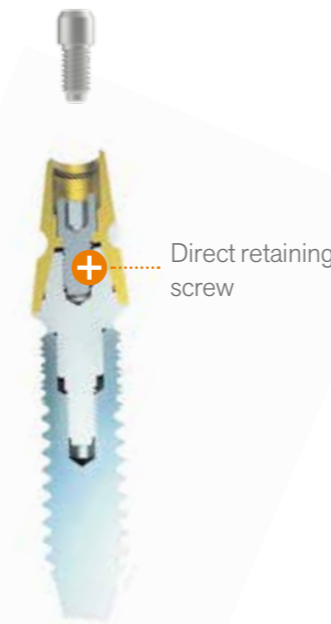


Cross section of Direct Abutment 0° on implant with impression posts OT. Once with OT retaining screw and once with direct retaining screw ▼



**NOTE:** The AuroBase Direct retaining screw is needed for fixation on the direct Abutments.

Article no.: 165-344055



### DIRECT TITANIUM BASE

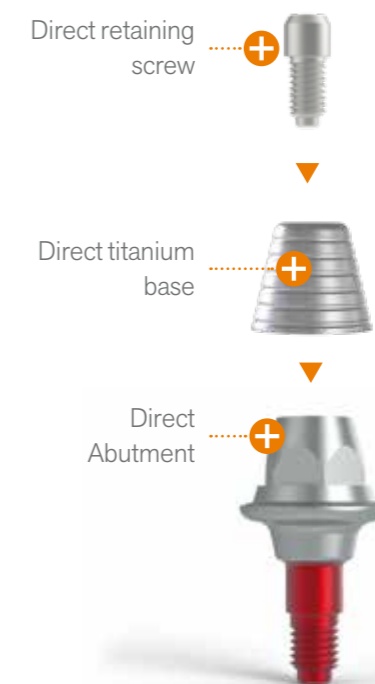
The „passive fit“ concept for individually milled and adhered bar and hybrid constructions at the level of the mucosa. The transfer is performed using Direct Scanbody delivery includes direct retaining screw. Suitable for BoneTrust® plus hex and cone implants in connection with the Direct Abutment.

**Direct titanium base 3.0 mm**

Article no.: 165-003000

**Direct titanium base 3.4/4.0 mm**

Article no.: 165-003400



### SCANBODY FOR DIRECT ABUTMENT

For the creation of individually milled bar or hybrid constructions, the Direct Scanbody is needed to transfer the exact position of the implant.

If desired, we will provide the corresponding STL data for entry into open milling systems. Suitable for BoneTrust® plus hex and cone implants in connection with the Direct Abutment.

**Scanbody for Direct Abutment 3.0 mm**

Article no.: 165-203030

**Scanbody for Direct Abutment 3.4/4.0 mm**

Article no.: 165-203440 ▼

### DIRECT LABORATORY ANALOGUE

Suitable for BoneTrust® plus hex and cone implants in connection with the Direct Abutment.

Article no.: 165-300000

Article no.: 165-344000 ▼



### DIRECT IMPRESSION POSTS REPOSITIONING TECHNIQUE

For taking closed impressions of the Direct Abutments above the mucosal level. Can also be used as an all-in-one abutment for polymerisation and fixation of complete dentures during immediate restoration. Suitable for BoneTrust® plus hex and cone. This impression post is significantly narrower than the version for the „open tray technique“. Includes retaining screw and transfer cap.

Article no.: 165-153000

Article no.: 165-153440

#### INDICATION:

+ For taking closed impressions. Can also be used for splinted temporary bridges and restorations on Direct Abutments.



The all-ceramic bridge is adhered to the direct titanium bases and is then occlusally screwed in the mouth on the Direct Abutments using the direct retaining screws. ▼



Prosthesis made of plastic with cemented direct titanium base



## AUROBASE DIRECT

This construction is for casting with high-gold HFA (PA) or nonprecious metal (NPA) alloys. For bridge and bar constructions. Suitable for BoneTrust® plus hex and cone implants in connection with the Direct Abutment. Delivery includes a direct retaining screw.

Example: Production of a cast bar

### AuroBase Direct 3.0 mm, HFA

Article no.: 165-003015

### AuroBase Direct 3.0 mm, NPM

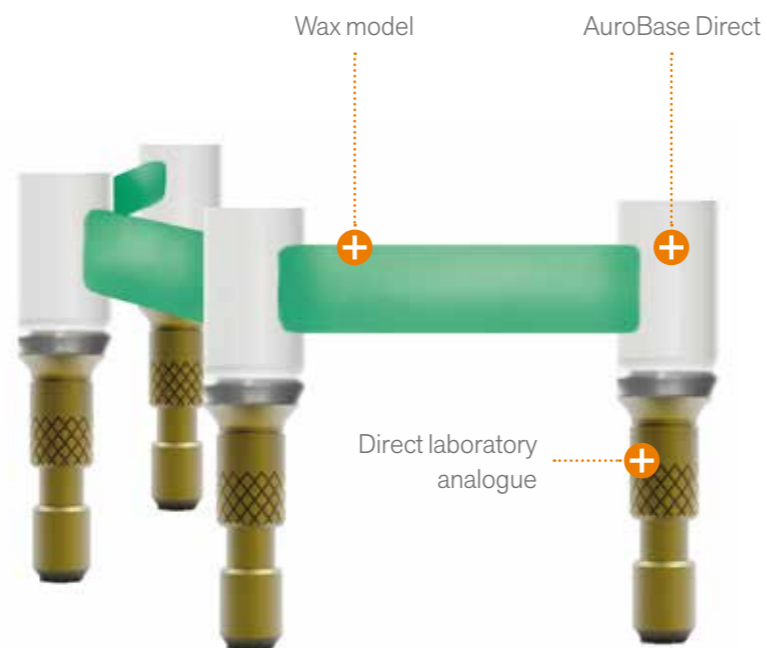
Article no.: 165-053015

### AuroBase Direct HFA

Article no.: 165-344050

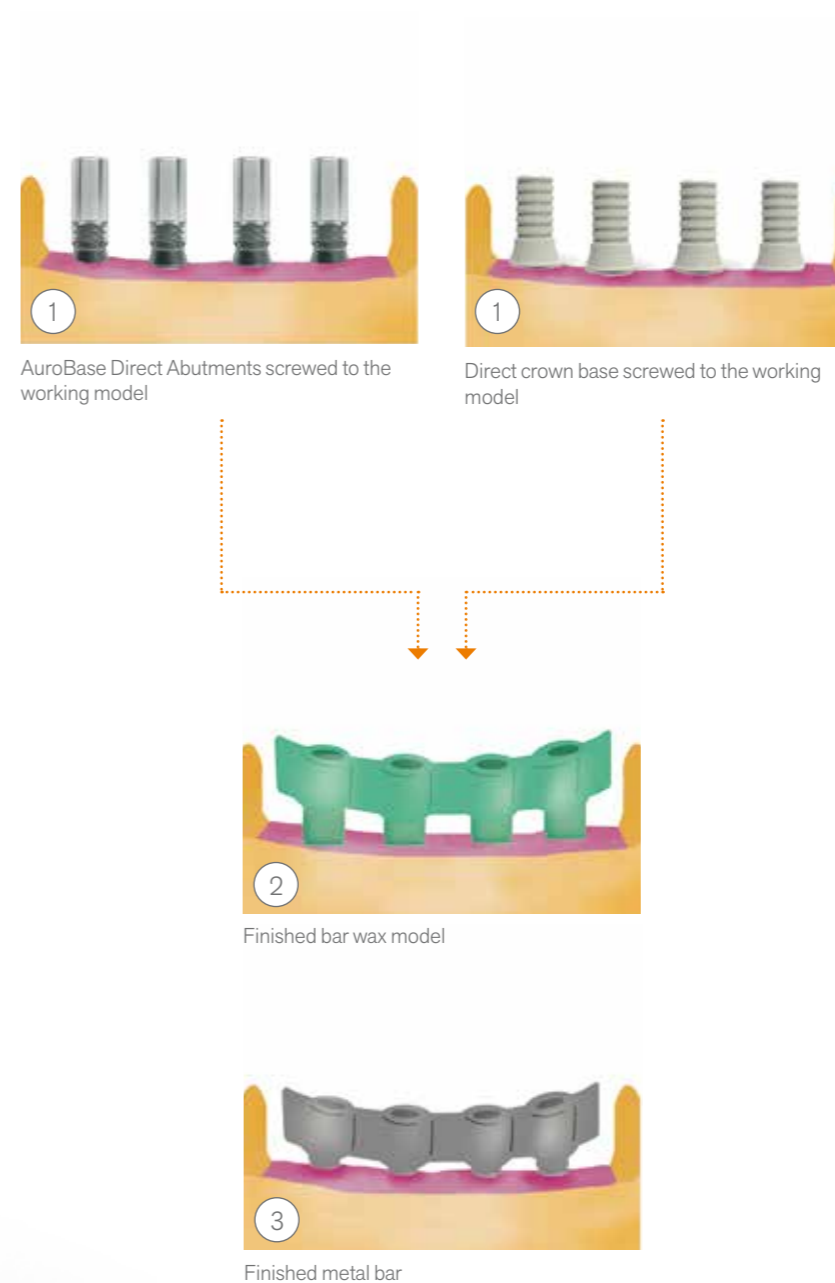
### AuroBase Direct NPM

Article no.: 165-344051



## PRODUCTION OF A CAST, MILLED BAR

The AuroBase Direct Abutments or the direct waxing sleeves castable are screwed onto the direct laboratory analogue in the working model and appropriately shortened. Then the bar is correspondingly modelled in wax in the desired shape, milled, and cast in a metal alloy and completed.



## DIRECT WAXING SLEEVE CASTABLE, SET OF 2

The component can also be used as a castable alternative to AuroBase for the creation of screwed and splinted prosthetics such as, for example, a cast bar or occlusally screwed bridges and hybrid prostheses. The direct retaining screw is needed.

### Direct crown base 3.4/4.0 mm

Article no.: 165-344052





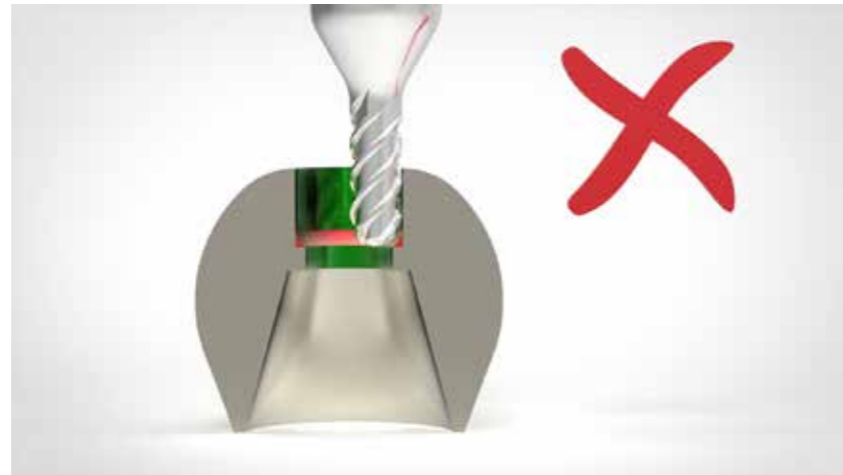
## IMPORTANT INFORMATION!

FOR THE PRODUCTION OF MILLED SUPERSTRUCTURE WHICH ARE BEING MANUFACTURED DIRECTLY ON THE „DIRECT ABUTMENTS“, THE FOLLOWING HAS TO BE CONSIDERED:

The placement of the screw head within the superstructure can NOT be milled with the usually used round drill.

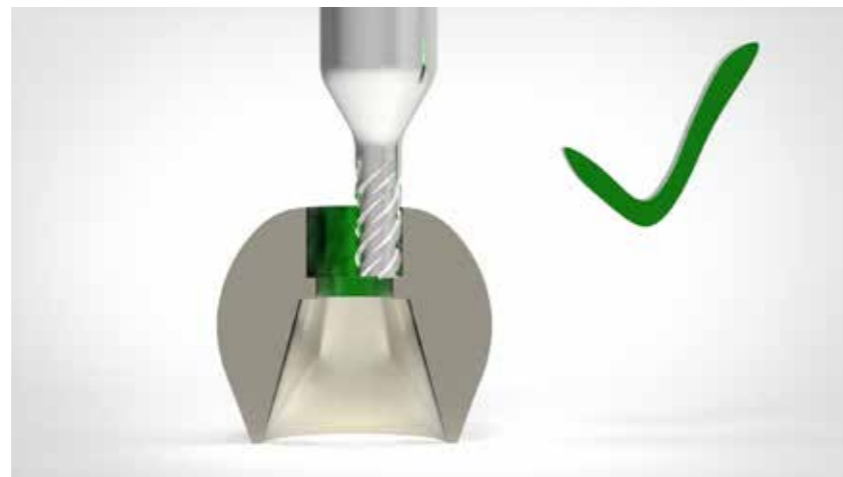
The zone marked in red in the picture (red X) would stay when a round drill is being used.

A safe screw connection of the superstructure would not be warranted.

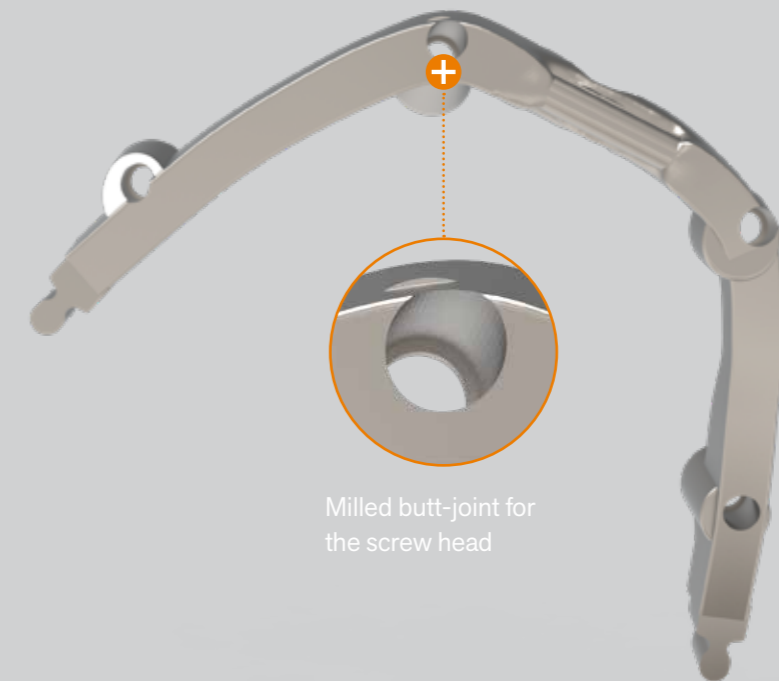


The needed profile can only be achieved with an appropriate shaft drill (image with the green checkmark).

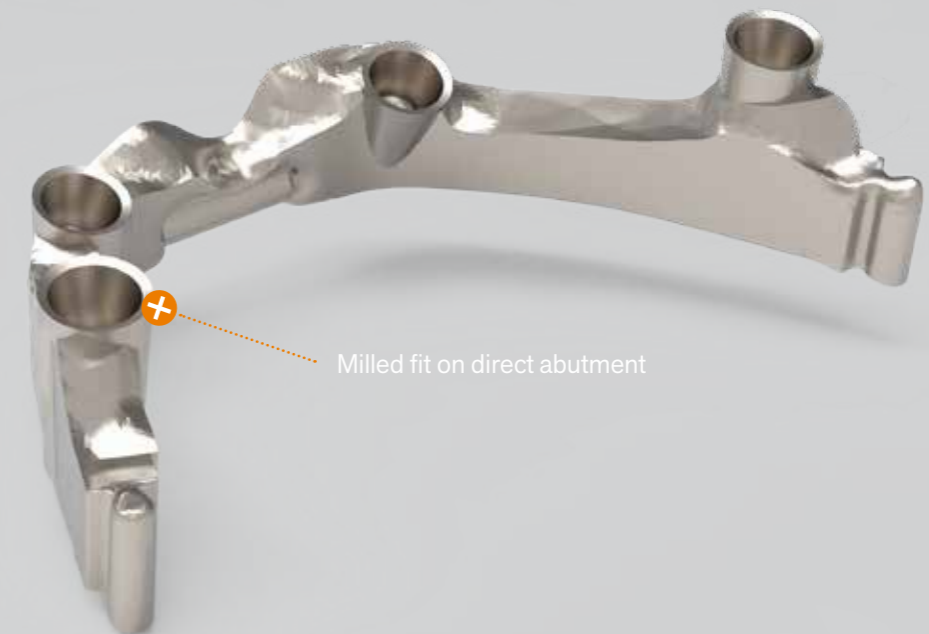
While using some planning tools to correct the milled radius, it can happen that the screw canal gets milled to wide (“over milling”) but it rather has to be sharp-edged. This is not acceptable and has to be prevented.



## CAD/CAM MILLED BAR ON „DIRECT ABUTMENTS“



Milled butt-joint for the screw head

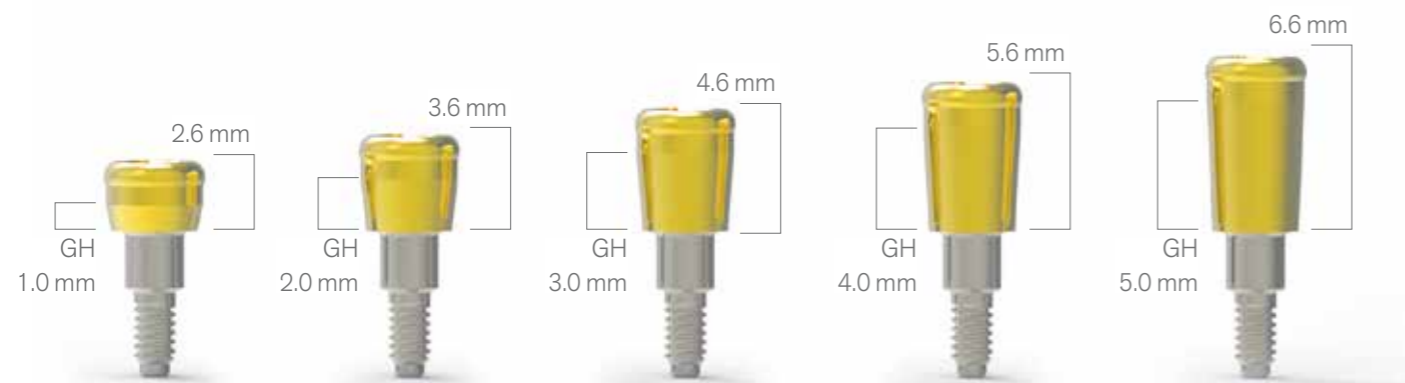


Milled fit on direct abutment



# BONETRUST® PLUS „LUCKY LOCK“ ABUTMENTS

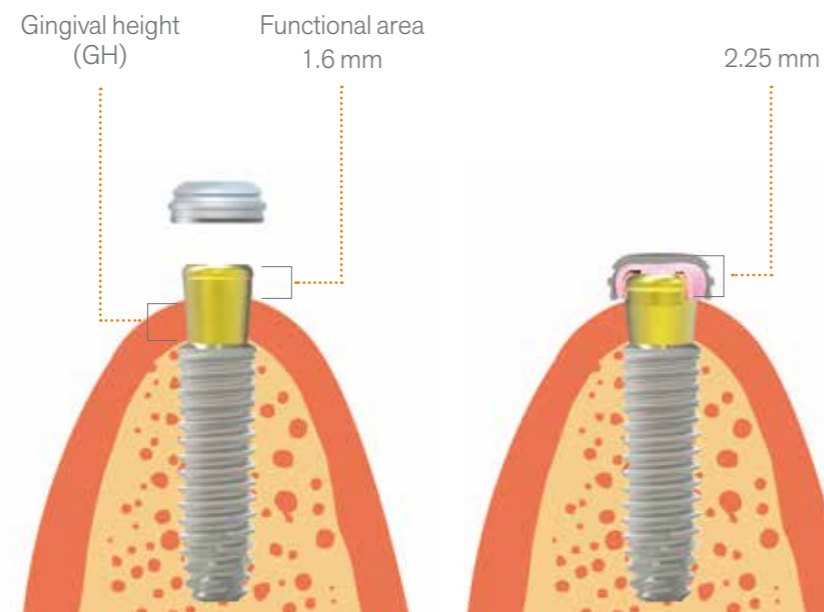
„Lucky Lock“ Abutments are used to secure implant supported overdentures in the upper and lower jaw and can be polymerised in the patient's mouth (direct method) as well as in the laboratory (indirect method).



The „Lucky Lock“ Abutments are available in gingival heights (GH) of 1 – 5 mm. The gingival height indicated is measured without the functional area of the abutment which must be above the mucosa.

Using the retention plug-in part provided, it is possible to compensate for angulations up to 20 degrees.

Retention plug-in parts for the expanded application area (significant angulation) are available as an option. These can compensate for a divergence of up to 40 degrees.



## „Lucky Lock“ universal instrument

Article no.: 161-010001



Retentive tip for the removal of inserts

Centre piece for repositioning inserts

Gold-coloured end piece (insertion aid)

Each „Lucky Lock“ Abutment is delivered with a multipart matrix set.

**Contents:** 1 × Retention housing with processing plug-in part, black 1 × Spacer ring 1 × Retention plug-in part, transparent 1 × Retention plug-in part, pink 1 × Retention plug-in part, blue



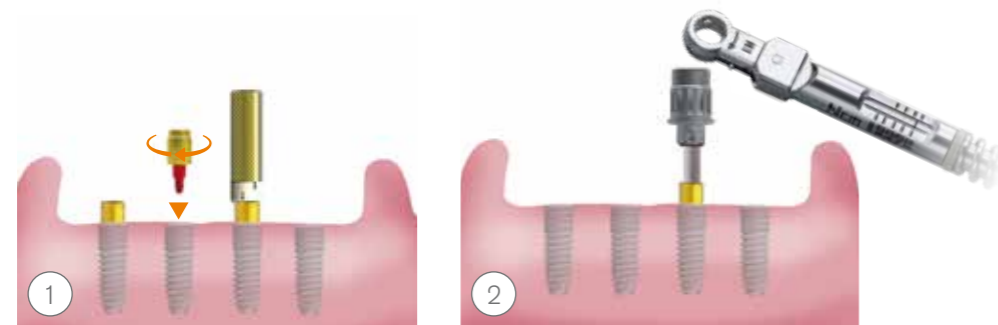
## MATRIX PULL-OFF FORCES

- Normal retention, 2 300 grams
- Expanded angulation, mild, 700 grams
- Mild retention, 1 400 grams
- Use in non-parallel implants up to 40° divergence (20° per implant)
- Extra mild retention, 700 grams
- Processing plug-in part
- Expanded angulation, 1 800 Gramm
- Use in non-parallel implants up to 40° divergence (20° per implant)

**NOTE:** The black processing plug-in parts are to be used exclusively as an aid for the incorporation/polymerization and should never remain in the patient's mouth.



## PROCESSING – INSERTION OF THE „LUCKY LOCK” ABUTMENT



1 Threading in the „Lucky Lock” Abutments with the placement tool

2 Torque down the „Lucky Lock” Abutments with torque

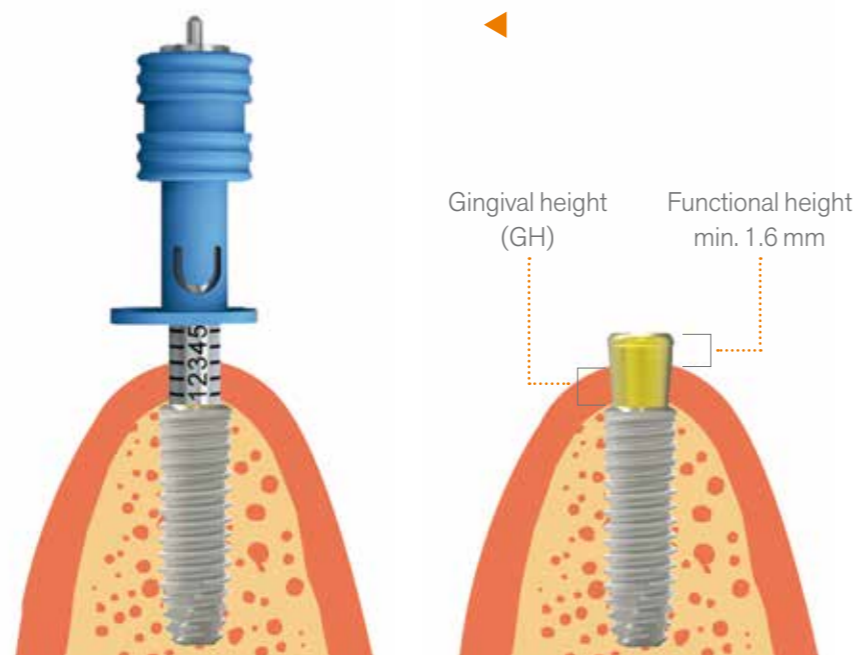
After removing the healing abutment, it must be ensured that the surface of the implant that faces the construction is completely clean. To ensure correct positioning of the construction of the implant later, the implant should not be covered with bone or soft tissue.

The „Lucky Lock” Abutment is inserted in the implants using the gold-coloured insertion aid which is a part of the „Lucky Lock” universal instrument. During final tightening of the „Lucky Lock” Abutment, it should be ensured that the mandatory torque of 20 N/cm is precisely maintained. This can be done using the insertion tool „Lucky Lock” adapter HP (Handpiece) and a suitable surgical machine or alternatively with the torque ratchet and corresponding adapter, which has a DIN coupling and accepts all conventional contra-angle instruments.

**NOTE:** For optimal support and long-term function free of complications, it is recommended to perform a „Lucky Lock” restoration only on 4 implants.

To select the appropriate „Lucky Lock” Abutment, the implant diameter and exact gingival height must be known.

The mucosal height corresponds to the indicated abutment height in millimeter intervals. In case of doubt, the higher abutment should always be used in order to ensure the necessary functional area of the matrix of 1.6 mm.



Insertion tool, short, ratchet adapter with contra-angle inserts

Article no.: 190-202001



Insertion tool „Lucky Lock” adapter contra-angle piece

Article no.: 161-010022



For easy measurement of the gingival height, you can use the **Altus™ gauge**.

Article no.: 190-301700



## PROCESSING IN THE LABORATORY „INDIRECT METHOD“

### IMPRESSION

When taking impressions of the „Lucky Lock” Abutments using „Lucky Lock” impression posts, the posts are placed on the abutments and then an impression is taken with suitable materials such as silicone or polyether. After the impression material has cured and the tray has been removed from the mouth, the „Lucky Lock” impression posts remain in the impression material.

### CREATING A MODEL

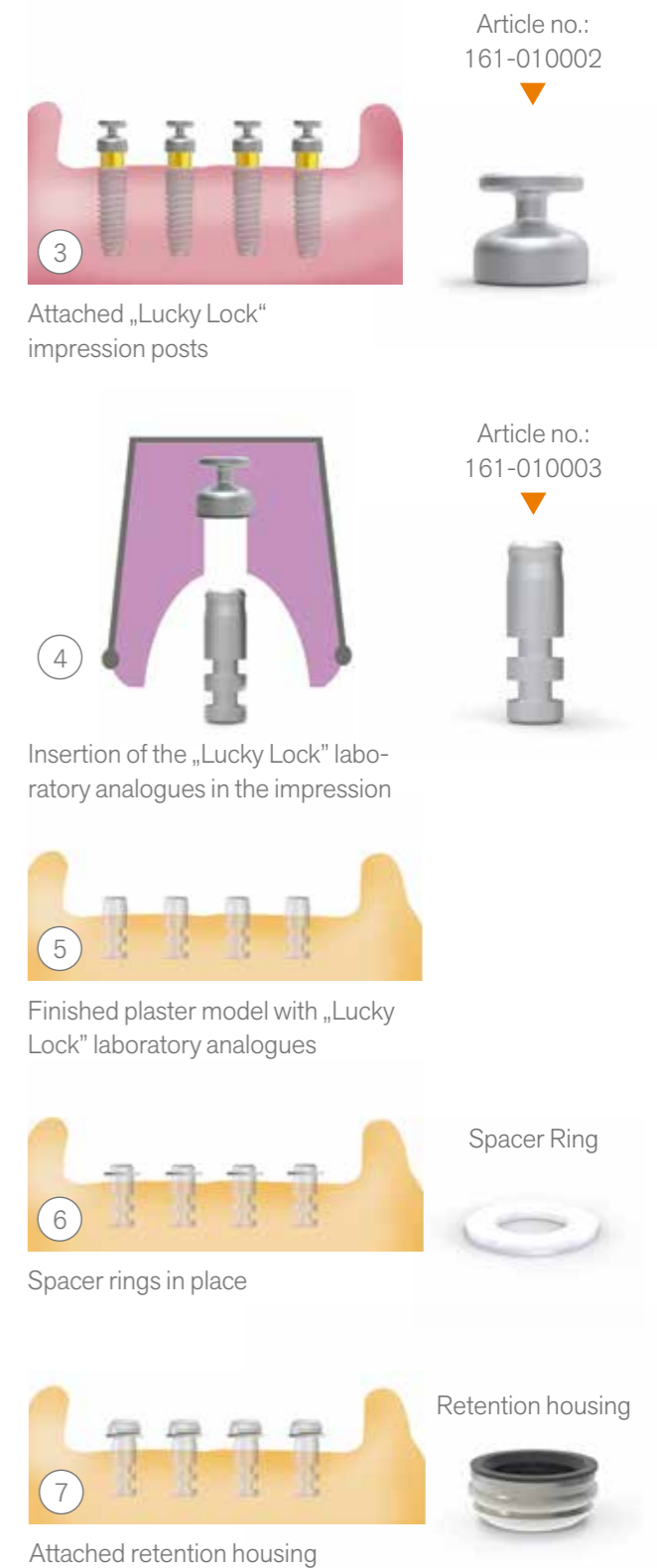
After the impression has been taken, the model is created with „Lucky Lock” laboratory analogues. To do this, the analogues are inserted into the impression posts remaining in the impression. After the correct position of the laboratory implants has been checked once again, the model can be made using a suitable modelling material.

The spacer rings supplied are placed over the functional areas of the „Lucky Lock” analogues to prevent plastic from getting into the retention housing.

Afterwards, the retention housing is attached to the „Lucky Lock” laboratory analogue using the black processing plug-in parts. The black processing plug-in parts secure the retention housing and determines the resilience of the prosthesis.

**WARNING:** Undercut areas between the retention housings (matrices) and the surrounding tissue which are not covered by the spacer rings must be blocked out. During the creation process, no plastic should get into the retention housing!

**NOTE:** The correct positioning of the prosthesis and „Lucky Lock” Abutments should be checked during a follow-up appointment approx. 1 week later. At that time, the „Lucky Lock” Abutments should be retightened once again with the specified torque of 20 N/cm.



Article no.: 161-010002

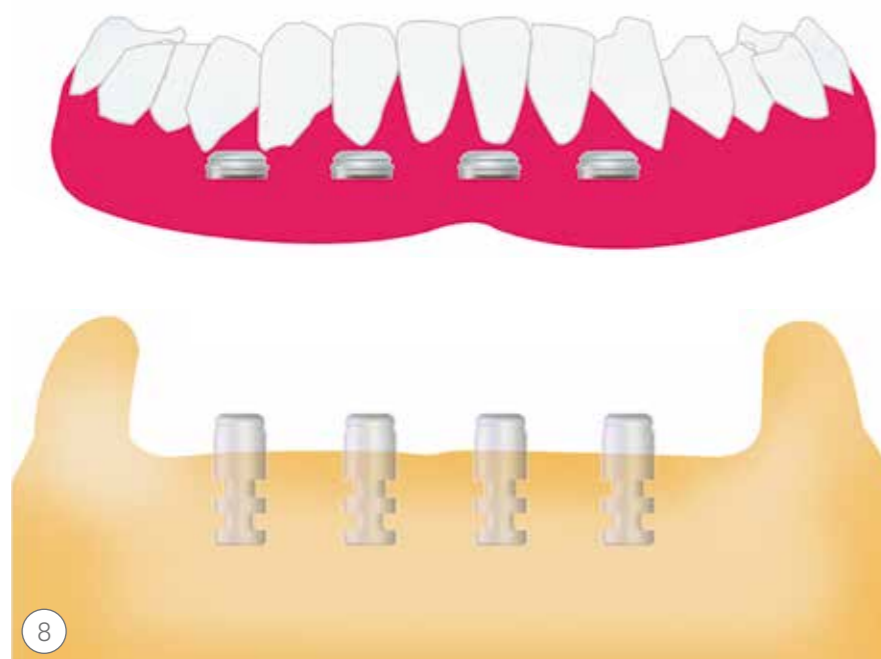
Article no.: 161-010003

### INSERTING THE COLOURED RETENTION PLUG-IN PARTS

After completing the full prosthesis, the white spacers are removed and the black processing plug-in parts are also removed from the retention housing using the „Lucky Lock“ universal instrument.

This is done by rotating the screwed-in tip of the instrument counter-clockwise for three rotations and then pushing the retentive tip into the black processing plug-in part and pulling out the black plug-in part.

Then the centre piece of the locator universal instrument can be used to insert the correspondingly coloured plug-in part into the retention housing. To do this, the tip of the instrument is unscrewed and the retention insert is used by placing it on the selected retention plug-in part and then pushing it in.



8 Completed full prosthesis



9 Removal of the processing plug-in part



10 Insertion of the definitive matrix

### PROCESSING IN THE DENTAL OFFICE „DIRECT METHOD“

„Lucky Lock“ components can be integrated in an available total prosthesis directly at the treatment chair in the dental praxis. Following the insertion of the „Lucky Lock“ Abutments in the BoneTrust® implants as described above, the spacer rings provided in the matrix sets are placed over the functional area of the „Lucky Lock“ Abutments to prevent plastic from flowing into the retention housing.

**WARNING:** Undercut areas between the retention housings and the surrounding tissue which are not covered by the spacer rings must be blocked out. During the modification, no plastic should get into the retention housing! The matrices with the black processing insert are now placed on the „Lucky Lock“ Abutments. The retention housing is secured by and the resilience of the prosthesis is determined by the black processing insert. The existing full prosthesis is ground and perforated specifically in the area of the retention housing.

During the trial in the mouth, the prosthesis should not touch the retention housing. Contact with the housings can impair the exact positioning of the prosthesis in the mouth. The influx of the plastic can then occur from an occlusal direction through the perforations.

Polymerisation of the retention housing must be performed using a suitable self-curing resin, taking the manufacturer's instructions into account. We recommend first wetting the retention housing with plastic.

Then the prosthesis should be immediately inserted, the exact positioning checked and the perforated areas filled with plastic. As soon as the plastic has cured, the prosthesis is taken out of the mouth, excess plastic is removed and the corresponding areas are smoothed and polished.

Then the black processing inserts are replaced with appropriate coloured retention inserts. Then, with the prosthesis inserted, the occlusion is checked.



1 Screwed-in „Lucky Lock“ Abutment with attached spacer rings and retention housings



2 Ground or perforated prosthesis in the area of the retention housing



3 Prosthesis with mounted retention housings



4 Removal of the processing plug-in part



5 Insertion of the definitive matrix



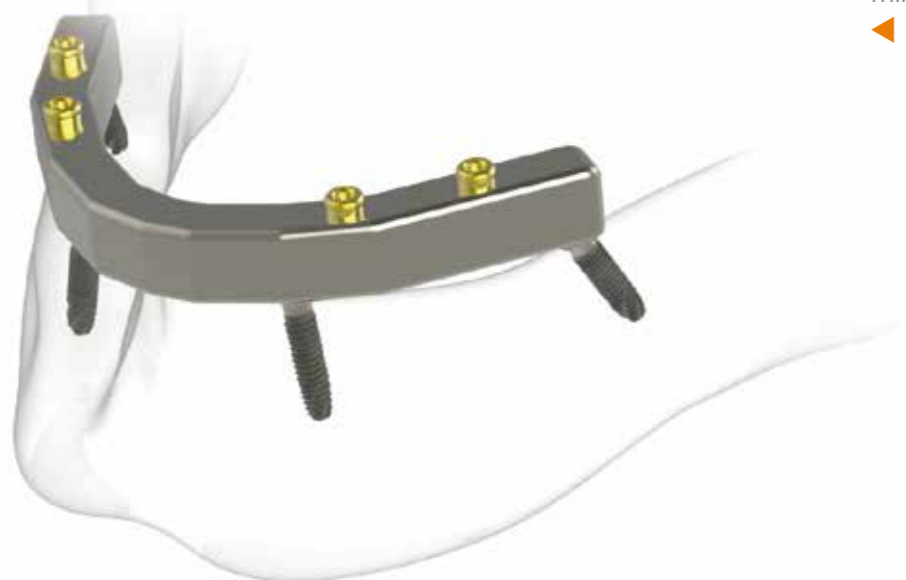
### LUCKY LOCK™ MINI ABUTMENTS

The „Lucky Lock“ Mini Abutments represent an ideal fixation option for removable superstructures in connection with bar or hybrid constructions for all implant systems.

The extremely flat (1.75 mm) retaining element can also be used in the case of extremely poor space conditions. Thread: M2 × 0.4 mm.

„Lucky Lock“ Mini Abutments are only available as sets of 2.

Article no.: 161-00MINI

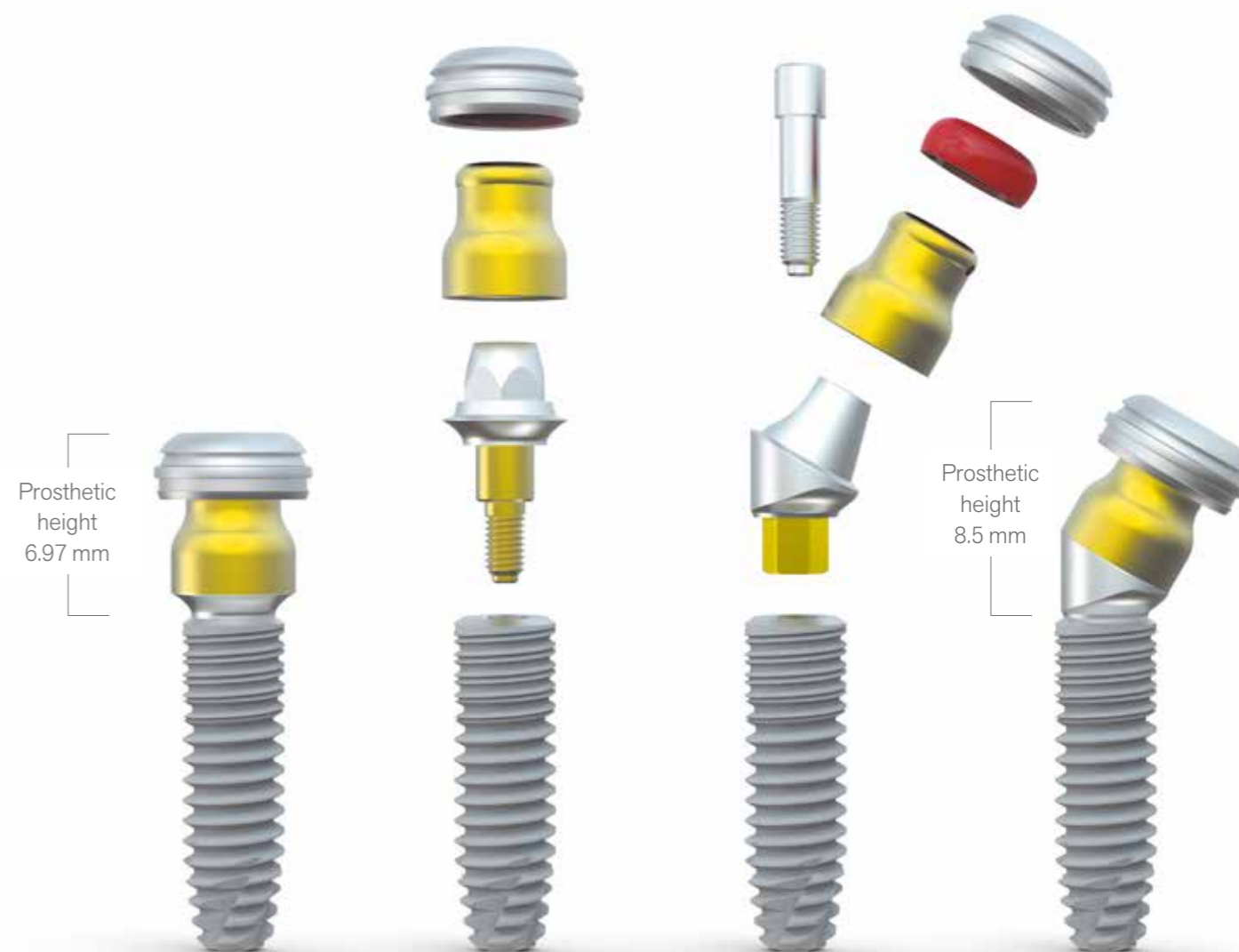


Milled bar with a screwed in mini „Lucky Lock“ Abutment

### DIRECT „LUCKY LOCK™ ABUTMENTS

Specially designed for the direct concept. The abutments can be screwed onto the 0°/20°/30° abutments. In this way, divergences of up to 30° can be compensated. Delivery includes a 4-piece matrix set. The Direct „Lucky Lock™ Abutments are only available as sets of 4.

Article no.: 165-161000 ▶



# PROSTHETIC OVERVIEW

## BONETRUST® ONE

### BONETRUST® ONE

The one-part, reduced-diameter BoneTrust® one implant was specially developed for social indications and restorations with CAD/CAM superstructures. It combines the surgical advantages of the BoneTrust® plus implants and enables very cost-effective prosthetic constructions.

A variety of prefabricated superstructure components is available. The delivery includes the Universal Abutment with OT screw which can be used as open impression posts as well as for economical prosthesis fixation.



BoneTrust® one  
BoneTrust® one Laboratory Analogue  
BoneTrust® one incl. Universal Abutment  
BoneTrust® one „Lucky Lock“ Abutment  
BoneTrust® one Esthetic Abutment 17.5°  
BoneTrust® one HSL Basis classic  
BoneTrust® one Bar Basis, Titanium  
BoneTrust® one Scan Cap

### BONETRUST® ONE HEALING ABUTMENT

To protect the implant cone or to shape the soft tissue, corresponding healing abutments/cover caps are available for the time during which the dental prosthesis is being produced.

Article no.: 220-170030



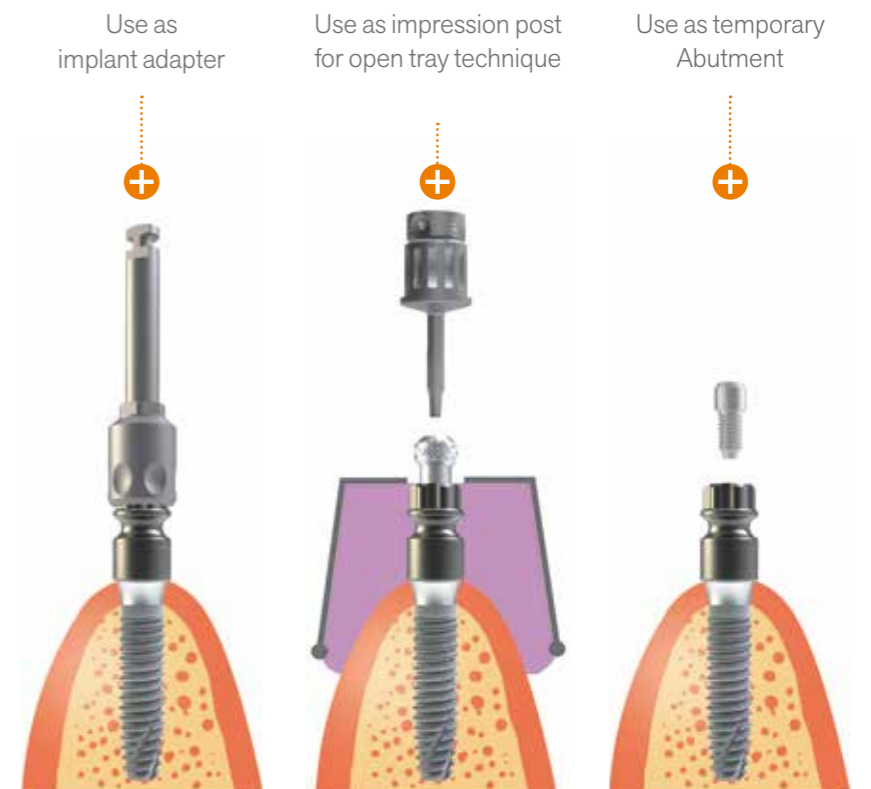
### BONETRUST® ONE UNIVERSAL ABUTMENT

The Universal Abutment is already premounted on the implant as an implant adapter and is also used as an impression post for the open tray technique.

The knurled screw additionally has a hexagon on the top for screwing tightly.

The impression can also optionally be taken using a plastic transfer cap or scan cap. The Universal Abutment can also be used to make a control key.

For the Medical Instinct® direct concept, the Universal Abutment is used for polymerisation in the existing prosthesis and finally it is occlusally screwed with the BoneTrust® one retaining screw.



Polymerisation of the Universal Abutment in the prosthesis using knurled screw.



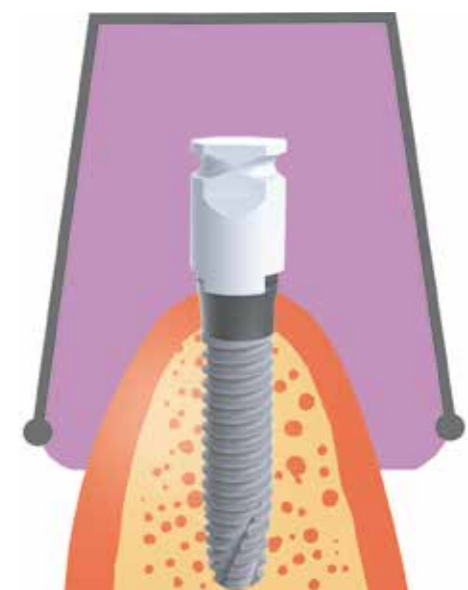
Finished prosthesis, occlusally screwed using BoneTrust® one retaining screw.

### TRANSFERCAP

Rapid and simple reposition impression can be performed using the BoneTrust® one transfer cap. The transfer caps securely snap onto the implants and laboratory analogues. Delivered in a 2-piece set.

Article no.: 220-180030

Reposition impression ▼



### BONETRUST® TITANIUM BAR ABUTMENT

The bar segments are fitted between the bar bases with the smallest possible joint gap and welded together with sufficient argon gas purging.

**WARNING:** The welded seams may not have any blue discolourations. These indicate insufficient argon gas purging and thus oxygen uptake by the metal. This leads to embrittlement of the welded seam and thus to weakening of the bar structure. Please follow the operating instructions of your laser device.



1 Screw the titanium bar base onto the BoneTrust® one laboratory analogue in the working model



2 Adjust the bar elements



3 Screw on the finished bar in the mouth



4 Fully integrated bar

### BONETRUST® ONE LABORATORY ANALOGUE (2-PC. SET)

Article no.: 220-185030 ▼



### BONETRUST® ONE TITANIUM BAR ABUTMENT

This construction does not have any anti-rotational mechanism and has been specially developed for the laser technique for the production of bar structures.

Article no.: 220-163050 ▼



**NOTE:** The BoneTrust® one retaining screw is necessary for fixation.

Article no.: 220-100001



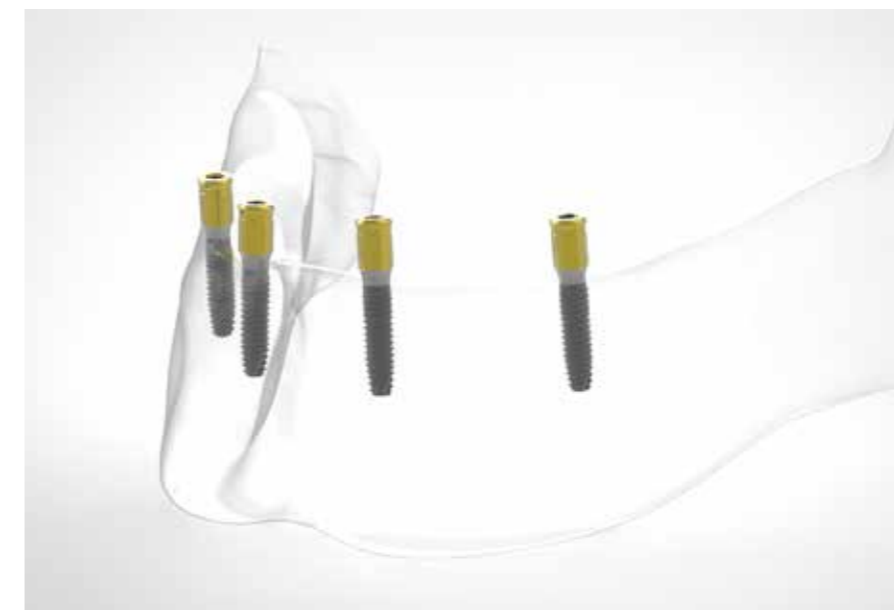
### BONETRUST® ONE „LUCKY LOCK“ ABUTMENTS

The BoneTrust® one „Lucky Lock“ Abutments are available in two gingival heights (3.5 mm and 5.0 mm). They are permanently adhered to the implants. Delivery includes a multipart matrix set.

For the adhesion, please follow the respective manufacturer's instructions for handling its adhesive. Suitable adhesives include Multilink®\* Hybrid Abutment, or PANA VIA™ F 2.0\*\*.

**BoneTrust® one „Lucky Lock“ Abutment Set, GH 3.5 mm**  
Article no.: 220-161303 ▶

**BoneTrust® one „Lucky Lock“ Abutment Set, GH 5.0 mm**  
Article no.: 220-161305 ▶



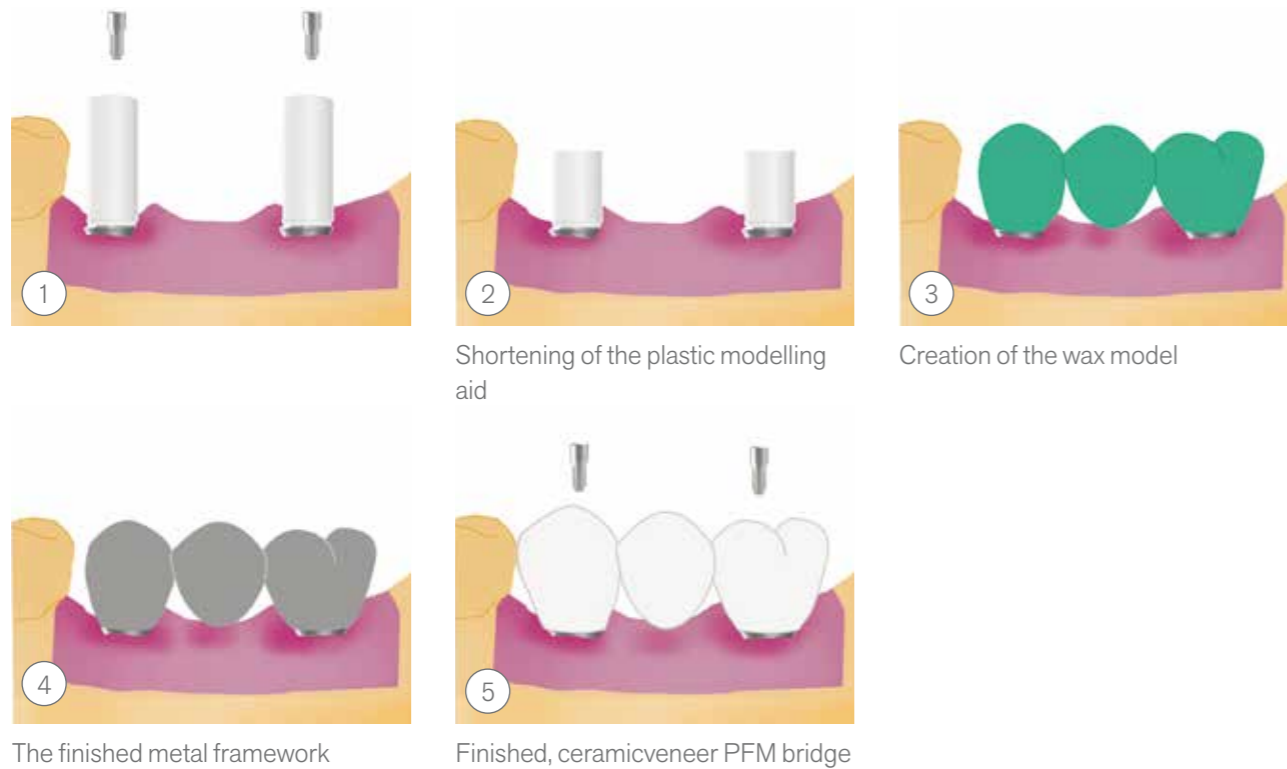
**NOTE:** After adhering the BoneTrust® one „Lucky Lock“ Abutments on the implants, it is directly or indirectly inserted in the prosthesis using the same procedure as for regular „Lucky Lock“ Abutments.

\* Multilink® Hybrid Abutment is a registered trademark of Ivoclar Vivadent AG.  
\*\* PANA VIA™ F 2.0 is a registered trademark of Kuraray Europe GmbH.



### HSL BASIS CLASSIC

Using the example of a screwed on, multi-unit bridge construction.



### HSL BASIS CLASSIC

This construction does not have any anti-rotational mechanism and is intended for casting with high-gold alloys HFA (PA) to create bridge or bar construction.

The BoneTrust® one retaining screw is needed for fixation.

Article no.: 220-163030 ▼



### HSL BASIS CLASSIC

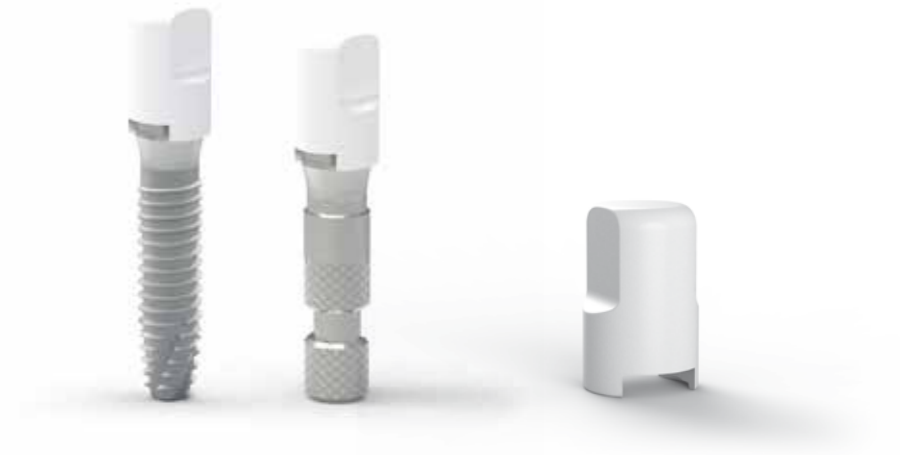
Using the example of a bar construction:



### BONETRUST® ONE SCAN CAP

The BoneTrust® one scan cap can be used to transmit the implant position in the mouth as well as on the model. It can also be used as an impression cap.

Article no.: 220-166030 ►



Article no.:  
220-160300

Article no.:  
220-160317

### BONETRUST® ONE ESTHETIC ABUTMENT

The BoneTrust® one Esthetic Abutments are available in straight and angled versions. The abutments have an anti-rotational mechanism and are permanently adhered to the implants in the mouth.

For the adhesion, please follow the respective manufacturer's instructions for handling its adhesive. Suitable adhesives include Multilink®\* Hybrid Abutment, or PANAVIA™ F 2.0\*\*.

The downloads are available on our website free of charge.

[Medical Instinct® > Downloads](#)

### BONETRUST® ONE SCAN LABORATORY ANALOGUE

The plastic BoneTrust® one scan laboratory analogues can be used directly for scanning and producing the superstructure. If desired, we will provide you with the corresponding STL files (positioning of the screw head/connection design, etc.). After „matching“ the corresponding files, you can easily and quickly mill individual solutions in your laboratory yourself.

Article no.: 220-185040 ►



\* Multilink® Hybrid Abutment is a registered trademark of Ivoclar Vivadent AG.  
\*\* PANAVIA™ F 2.0 is a registered trademark of Kuraray Europe GmbH.

# BONETRUST® MINI INTERIM IMPLANTS

With the BoneTrust® mini implants, Medical Instinct® offers a unique concept for interim restorations. In collaboration with the private dental clinic Schloss Schellenstein in Olsberg, a design was developed which enables restoration with prosthetic components with the aid of a screw connection.

The only 2.3mm or 2.5mm gauged Implant consists of grade 4 pure titanium and is available in three different lengths. The new system offers a prosthetic range which is unique to date, ranging from standard components for prosthesis fixation to esthetic bridge restorations.



## BONETRUST® MINI LABORATORY ANALOGUES

Article no.: 240-185023 ▶

There are two different impression options available. Along with the option of taking an impression of the abutments using the impression cap, it is also possible to take impressions of the BoneTrust® mini implants directly.



## Insertion tool, short, ratchet adapter with contra-angle inserts

Article no.: 190-202001 ▶

## 0.9 mm hex screwdriver (contra-angle insert) short/long ▶

short: Article no.: 190-101209  
long: Article no.: 190-101213



## BONETRUST® MINI LABORATORY ANALOGUES, SCREWED IN

Article no.: 240-185123 ▼



## BONETRUST® MINI TI-BASE

The ti-bases are available in 0° (without rotation stop) and 16° (with rotation stop). To screw in an interim prosthesis on the BoneTrust® mini implants, the BoneTrust® mini crown base can be shortened if needed and then directly polymerised in the existing prosthesis. The 16° angulated ti-base additionally has a longer clip retention part that can be trimmed. It aids in assimilating cemented and temporary crowns and bars.

**BoneTrust® mini Ti-Base 0°**  
Article no.: 240-165000

**BoneTrust® mini Ti-Base 16°**  
Article no.: 240-165017

## BONETRUST® MINI ABUTMENTS

The abutments are available in 0 degrees and 17.5 degrees and aid in assimilating cemented and temporary crowns and bars.

The retaining screw and impression cap are included in the delivery. The impression cap can also be used as a polymerisation cap.

**BoneTrust® mini Abutment 0°**  
Article no.: 240-162300

**BoneTrust® mini Abutment 17.5°**  
Article no.: 240-162317

## BONETRUST® MINI SPHERICAL HEAD SCREW

The spherical head screw is screwed in using the 0.9 mm hex screwdriver with 20 N/cm and the O-ring matrix is incorporated via polymerisation into an existing prosthesis.

Article no.: 240-161230

Placement of the abutments (0° or 17.5°) and tightening of the retaining screw with the 0.9 mm hex screwdriver (contra-angle insert). This can be used with the adapter for the torque ratchet as well.

1. The impression is taken using the impression cap (also available separately). However, this can also be used as a polymerisation cap.
2. To create a model, the BoneTrust® mini laboratory analogue is available.



## BONETRUST® MINI TRANSFER IMPRESSION POSTS COMPLETE

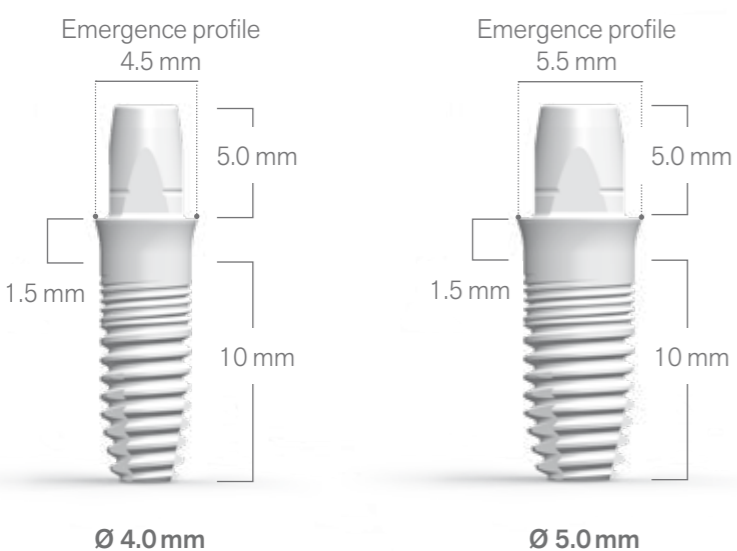
The transfer impression posts offer the option of taking an impression of the implant directly. To create a model, a corresponding laboratory analogue is available. Article no.: 240-180123 ▼

# PROSTHETIC OVERVIEW BONETRUST® BALANCE

Medical Instinct® offers with the BoneTrust® balance a zirconium implant for restoration where classic titanium implants cannot or should not be used. The abutment zone of the implant has a rotation stop and shows an optimized CAD/CAM design.

A click indicates the correct fit of the prosthetic components on the implant.

**IMPORTANT INFORMATION:** It is crucial to pay attention to the correct and axially aligned positioning of the BoneTrust® balance implant since the prosthetic part of the implant cannot be modified. When the primary stability is not sufficient enough it is recommended to manufacture a guarding stent.



**CAD/CAM NOTE:** For the **BONETRUST® BALANCE** implant is no scan cap available. The implant or laboratory implant is scanned directly.

To achieve an ideal outcome a scan-spray should be used prior to the scan of the laboratory implant.

## BONETRUST® BALANCE LABORATORY ANALOGUE

Delivered in a 2-piece set  
Article no.: 320-185040 ▶



## BONETRUST® BALANCE PROVICAP PEEK

Latches into the implant which eases the creation and fixation of temporary constructions. The provicap can be shortened individually.

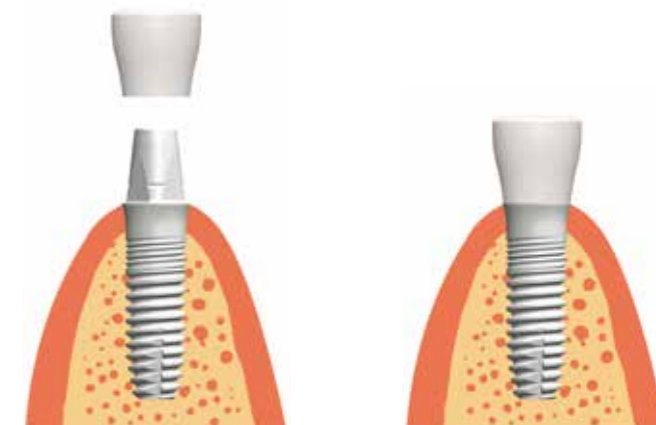
Delivered in a 4-piece set  
Article no.: 320-194040 ▶



## BONETRUST® BALANCE SOFT TISSUE FORMER PEEK

To protect the prosthetic implant part during the healing phase, the BoneTrust® balance healing abutment should be clicked into the implant.

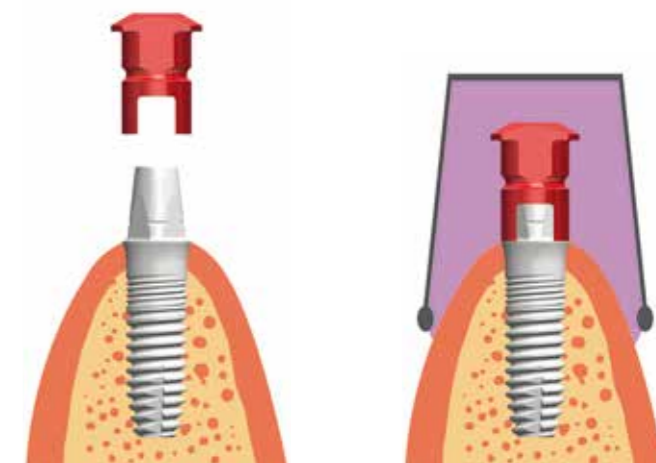
Delivered in a 4-piece set  
Article no.: 320-170065 ▶



## BONETRUST® BALANCE TRANSFERCAP

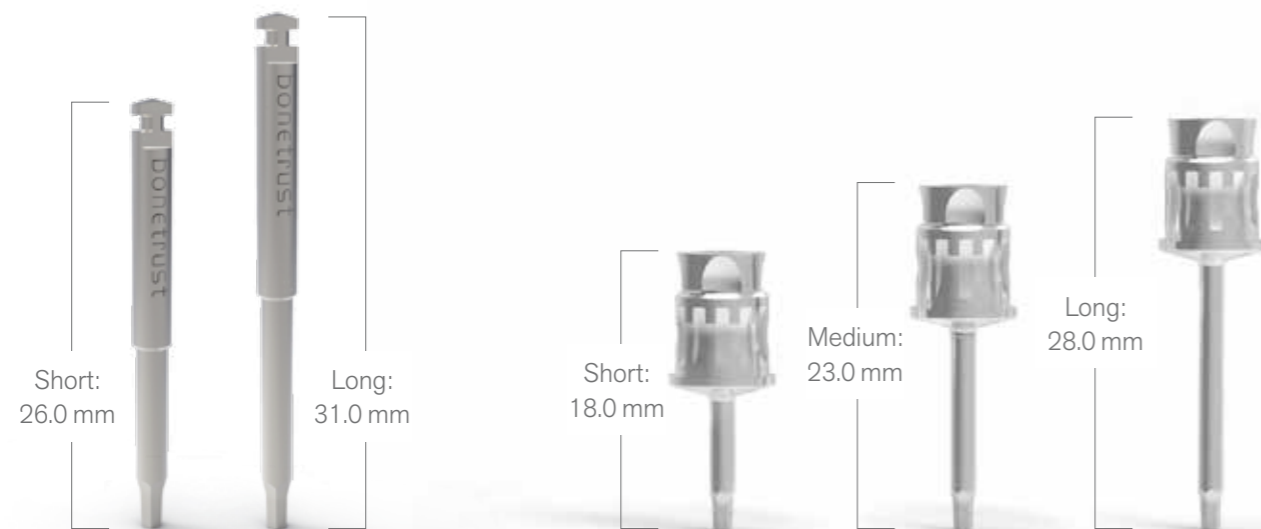
Allows easy impression when the superstructure was built by a laboratory on a laboratory implant. The transfercap latches audible and noticeable into place on the abutment cone. The matching laboratory analogue is available for model fabrication.

Delivered in a 4-piece set  
Article no.: 320-180040 ▶





# TOOLS AND EQUIPMENT



## CONTRA-ANGLE PIECE, SHORT AND LONG

Available in the lengths: 26.0mm, 31.0mm ▲

**Short:** Article no.: 190-101210

**Long:** Article no.: 190-101212

## SCREWDRIVER 1.2 MM

Available in the lengths: 18.0 mm, 23.0 mm und 28.0 mm ▲

**Short:** Article no.: 190-101200

**Medium:** Article no.: 190-101201

**Long:** Article no.: 190-101202

## INSERTION TOOL, SHORT

Ratchet adapter for  
contra-angle inserts

Article no.: 190-202001 ▶



## TORX SCREWDRIVER HANDPIECE

The torx screwdriver offers in combination with the torx retaining screw the possibility to screw an angulation up to 20°.

Article no.: 190-101215 ▶



## NSK PROSTHETIC SCREWDRIVER ISD 900

The wireless iSD 900 prosthetic screwdriver from NSK, with its torque calibration, is the optimal solution for precise tightening of retention screws in the implant prosthesis.

The iSD 900 has a DIN coupling for contra-angle instruments and can thus be used for all implant systems. Wireless, incl. battery.

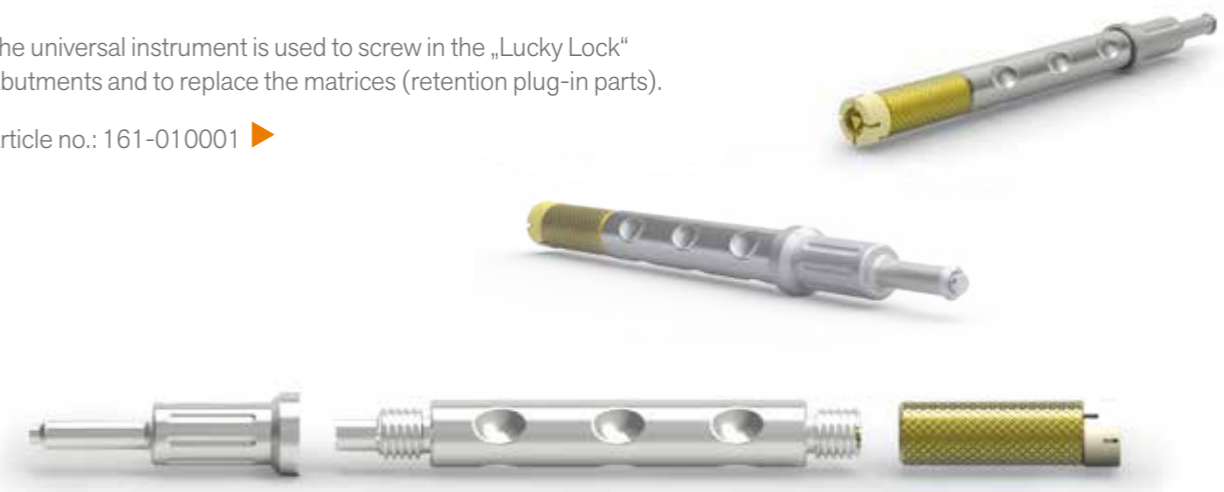
Article no.: 192-ISD900 ▶



## „LUCKY LOCK“ UNIVERSAL INSTRUMENT

The universal instrument is used to screw in the „Lucky Lock“ Abutments and to replace the matrices (retention plug-in parts).

Article no.: 161-010001 ▶

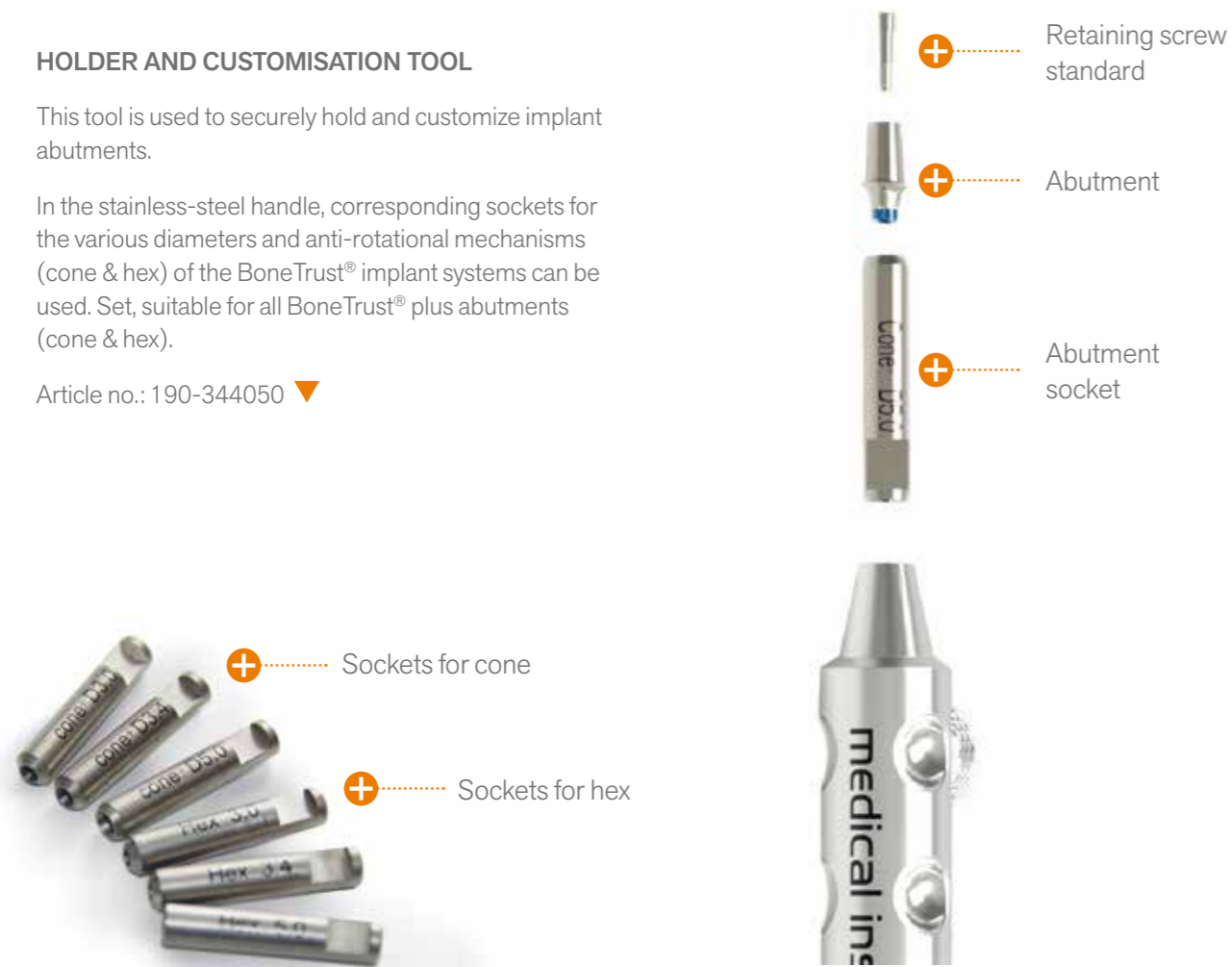


### HOLDER AND CUSTOMISATION TOOL

This tool is used to securely hold and customize implant abutments.

In the stainless-steel handle, corresponding sockets for the various diameters and anti-rotational mechanisms (cone & hex) of the BoneTrust® implant systems can be used. Set, suitable for all BoneTrust® plus abutments (cone & hex).

Article no.: 190-344050 ▼



### BONETRUST® PROSTHETIC SET

The sterilisable prosthetic box contains a torque ratchet and a short and long hexagon screwdriver.

Thanks to the gradually adjustable torque and an optionally available universal adapter with DIN fitting for contra-angle instruments, you will only need a single prosthetic set in the future for prosthetic restorations of a variety of implant systems.

Article no.: 190-300334 ▼



### BONETRUST® TORQUE RATCHET

Torque range: 15 – 80 Ncm.

Article no.: 190-303050 ▶



### ONE-PIECE BONETRUST® TORQUE RATCHET

The one-piece ratchet is for the surgical and prosthetic demand. The torque is well readable on the member. For the washtray preparation a one-piece construction was used to fulfill the requirements and hygiene regulations. Only a minimum cleaning effort is needed because the ratchet does not need to be disjoined which means a huge saving of time.

Torque range: 10 – 50 N/cm.

Article no.: 190-303051 ▶



# MATERIAL DATA SHEET

## MATERIAL DATA SHEET FOR:

- + Impression coping RT and OT
- + Esthetic Abutments (0°/15°)
- + Direct Abutments (0°/20°/30°)
- + Ti-UCLA-Base
- + Ti-Bases

## MATERIAL SELECTION:

- + **Titan Grade 5** (TiAl6V4)  
W.Nr.: 3.7165

The material corresponds to the ISO norm:

**ISO 5832-3** und **ASTM F 136**

## CHEMICAL COMPOSITION IN VOLUME PERCENT

C	max. 0.08
Fe	max. 0.25
O	max. 0.13
N	max. 0.05
H	max. 0.015
Al	5.50 – 6.50
V	3.50 – 4.50
Ti	Rest

## MECHANICAL PROPERTIES (FROM RAW MATERIAL)

Tensile strength (rm)	≥ 900 MPa
Yield strength (Rp 0.2)	≥ 795 MPa
Break elongation (E)	≥ 10%

The „Lucky Lock“ Abutments are characterized by a particularly hard and abrasion-resistant titanium nitride coating.

## Coating on „Lucky Lock“ Abutments:

- + Colour: Gold-coloured
- + Layer thickness: 2 – 3 µm
- + Material: Titanium nitride
- + Chemical components: Titanium (Ti) ≈ 80%  
Nitrogen (N) ≈ 20%

## MATERIAL SELECTION:

- + **Titan Grade 5** (TiAl6V4)  
W.Nr.: 3.7165

The material corresponds to the ISO norm:

**ISO 5832-3** und **ASTM F 136**

## MATERIAL DATA SHEET FOR:

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## CHEMICAL COMPOSITION IN VOLUME PERCENT



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## MECHANICAL PROPERTIES (FROM RAW MATERIAL)

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Yield strength (Rp 0.2)	≥ 795 MPa
Break elongation (E)	≥ 10%



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