# PROSTHETIC PROCEDURES



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### Welcome to this updated edition of DURAVIT prosthetic procedure manual.

B. & B. Dental S.r.l. is an Italian leading company in biomedical field specialized in the development of dental implants and materials for bone regeneration. The experience gained over the years has helped to provide high quality prosthetic implant technologies and innovative materials with affordable prices. Products and techniques are constantly improved, developed and innovated, paying attention to customer satisfaction and to meet customer needs. This is the main goal that B. & B. Dental aims to achieve.

B. & B. Dental produces and markets:

- B&B DENTAL SYSTEM: dental implant system.
- B&B DENTAL GUIDED SURGERY SYSTEM: guided surgery system.
- B&B DENTAL CRESTAL SINUS LIFT: system used for the sinus lift.
- NOVOCOR PLUS and materials for bone regeneration.
- T-BARRIER TITANIUM MEMBRANES.
- T-BARRIER COLLAGEN MEMBRANES.

B. & B. Dental promotes also training courses especially for dentists and dental technicians, during which implant-prosthetic techniques are taught step by step. Knowledge about the specific use of the individual components of the DURAVIT system are provided, as the opportunity to experience directly the wide range of the offered prosthetic solutions.

### CATALOG PRESENTATION

The awareness that the realization of a proper prosthesis on implant is a critical step for their longterm life time, has motivated the writing of this demonstrative catalog dedicated to dental technicians.

The catalog describes in details all the prosthetic components of the DURAVIT system and their use. Especially it is designed for being used by clinicians, who have undergone at least basic surgical and in-clinic implant training. All the information have specific illustrations in order to guide professionals through the wide range of options for the impression taking and the following built of the definitive prosthesis. Therefore it explains the essential steps regarding implant planning, surgical and prosthetic procedures.

B. & B. Dental has an interest to keep up-dated each doctor over the latest trends and treatment techniques about implants in order to provide the most simple implant solution even in case of complex cases.

# CONEXA THE REVOLUTIONARY CONNECTION



## UNIQUE PROSTHETIC CONNECTION

Thanks to the unique prosthetic connection (hole diameter 3 mm), the range is compatible with all prosthetic implants 3P, EV and WIDE, regardless of the stump or pillar chosen and the diameter of the implant.





### **UNLOCKING SYSTEM**

The morse taper is created by the friction between two conical surfaces (implant and abutment), that combined with the push and pressure applied in the insertion, locks them. The locking can be deleted only using an extractor screw "EXTRACTOR" (Ref. INN-6060).



Unscrew the prosthetic.



Screw clockwise the extractor screw until the abutment comes out.



Insert the extractor screw inside the abutment by using the hexagonal driver.



Once the abutment comes out unscrew the extractor.

0

# PROSTHETIC KIT Ref. KITPROTESICO





TORQUE RATCHET Ref. 00376DIN

SPHERICAL SCREW DRIVERS Ref. INN-00637

EXTRACTOR Ref. INN-6060



MANUAL DRIVERS Ref. INN-00604



PROSTHETIC SCREW DRIVER Ref. INN-61000 (short) Ref. INN-61000L (long)

# PROSTHETIC OPTIONS

## **CEMENT-RETAINED RESTORATION**

The cemented implant is defined as an intermediate element of cemented prosthesis (abutments), screwed directly on the implants.

#### Advantages:

- Improved esthetics due to compliance with the emergence profile;
- The concrete sealant facilitates the passivation of the structure;
- Easy occlusal balancing.

#### Disadvantages:

- Difficulty in the removal of the prosthesis;
- Risk that the concrete comes out below the gum line.



Abutment used for the cement-retained restoration in a cemented prosthesis.

## SCREW-RETAINED RESTORATION

The screwed implant is defined as an intermediate element of screwed prosthesis (abutments), in turn, screwed directly on the implant.

#### Advantages:

- Easy disassembly of the prosthesis;
- Connection through anatomical pillars;
- No use of sealant cements.

#### Disadvantages:

- Anatomical emergence profile sometimes difficult to achieve;
- Projection of the screws on the occlusal surface;
- Difficult to control the liability.



Abutment used for screw-retained restoration in a screwed prosthesis.

## ATTACHMENT-RETAINED RESTORATION

There are several indications for overdenture treatment in connection with implant therapy. Functionality, esthetics, phonetics and hygienic requirements in certain clinical situations require the use of the overdenture as an option of treatment.

#### Indications for overdenture treatment:

- An unfavorable jaw relation which makes treatment with a fixed bridge restoration difficult;
- Esthetic problems, e.g. the need for lip support in the upper jaw;
- Patient's dissatisfaction with removable

denture due to oral irritations and/or loss of bone for denture fixation

- Edentulous patients with a cracked palate;
- Economic constraints.



Abutment used for attachmentretained restorations of overdenture.

# HEALING COMPONENTS



#### **TIGHTENING:**

Insert the healing screw into the implant and tighten with only light finger force.





Ref. INN-6010





Ref. INN-6012



Ref. INN-6014

ø6



Ref. INN-6015



### **HEALING SCREWS Ø6** INDICATED FOR POSTERIOR AREA

Ref. INN-6011

These components are used to rehabilitate soft tissue on the implant in order to insert the final prosthetic abutment later on.

INN-6022







INN-6021



INN-6023



INN-6024





# **IMPRESSION COMPONENTS**

### **PULL-OFF TRANSFER** (CLOSED TRAY TECHNIQUE)

Made of plastic and single-use only. It provides an impression taking that is easy and fast for each patient.

t is packaged in 3 pieces. It ensures optimal fit and precise impression

Each package contains: 1 plastic cap, 1 screw and 1 metal transfer.

The transfer has to be combined with the analog INN-00585,

Each package contains 3 pieces. Ref. INN-00306

**TRANSFER FACILITY** 

taking in cases of large disparallelism.

Each package of plastic cap contains 2 pieces.

(CLOSED TRAY TECHNIQUE)

The transfer has to be combined with the analog. Ref. INN-00585





PULL-OFF TRANSFER INN-00306

ANALOG INN-00585



TRANSFER (Long) INN-00506L

## **PICK-UP TRANSFER**

(OPEN TRAY TECHNIQUE)

as shown above.

The pick-up transfers ensures an optimal fit and a precise impression taking for each patient.

The package contains: 1 pick-up transfer and 1 short pick-up screw. It is available even the long pick-up screw.

The transfer has to be combined with the analog INN-00585, as shown above.



METAL

TRANSFER

(Short)

INN-00506





COMPLETE SET - post screw hexagonal open tray transfer INN-00600

COMPLETE SET - post screw rotating open tray transfer INN-00601

\_

TRANSFER SCREW (Long) INN-00608L

## PULL-OFF IMPRESSION TRANSFER CLOSE TRAY TECHNIQUE





Clean the internal connection of the implant throughly from blood, tissue, etc. prior to the impression procedure.

Make little lateral movements to verify the correct insertion of the transfer.









Position the transfer in the analog and push until you feel the tactile response of engagement.

Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Note: Due to its low tensile strength, hydrocolloid is not suitable for this application.

Position the analog in the tray and smoothly push until you feel the tactile response of engagement.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).





Once the material is cured, carefully remove the tray.

The transfer remains in the impression material automatically when it is pulled off from the tray.

A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured.

## FACILITY TRANSFER CLOSE TRAY TECHNIQUE



Place the facility transfer accurately into the implant and tight the guide screw by hand or using the hexagonal screwdriver.

Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Note:

Due to its low tensile strength, hydrocolloid is not suitable for this application.



Unscrew and remove the facility transfer and send it together with the impression tray to the dental technician.

A gingival mask should always be used to ensure that the emergence profile is optimally contoured.









Place the plastic impression cap on the top of the transfer and push the impression cap in apical direction until it clicks.

The impression cap is now firmly seated on the facility transfer.

Once the material is cured, carefully remove the tray.

The impression cap remains in the impression material.

Mount the impression transfert on the analog using the transfer screw.

Place the transfer in the tray and push until you feel the tactile response of engagement. It is now firmly seated on the impression cap.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).

## PICK-UP TRANSFER OPEN TRAY TECHNIQUE





3

5

Clean the internal connection of the implant thoroughly from blood, tissue, etc. prior to the impression procedure.

Make perforations in the custom-made impression tray





Place the pick-up transfer accurately into the implant and by hand (Fig. A) or using the hexagonal screwdriver tight the pick-up screw.

Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Uncover the screws before the material is cured.

The pick-up transfer remains automatically in the impression material.

7

Once the material is cured, loosen the pickup screws and remove the tray.







A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured. Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).

# **TEMPORARY ABUTMENT - PEEK**

#### **INTENDED USE**

- Immediate load.

- Individual soft tissue management for esthetic cases.
- Screw- or cement-retained temporary crowns.
- Peek abutment has been designed as temporary abutment, easily customized by the clinician or in the laboratory by the dental technician.
- Easy to customize by the doctor during the surgery as well as by the technician in laboratory.

### CHARACTERISTICS

- Modifications of peek material can be realized immediately, easily and quickly.
- Easy-to-achieve esthetics due to tooth-colored and metal free.
- Conexa connection

#### NOTE

Maximum 121° sterilizable.



FV107.04/1



н. з



### **IMPORTANT NOTE**

The correct position of angled abutments can be checked considering that the external hexagon of the driver is in phase with the internal hex.

#### **TIGHTENING:**



The tightening of the prosthetic screw is realized with the 1.27 hex screwdriver and torque ratchet. For the final seating are recommended torques of 25 Ncm.

#### PEEK KIT 000.08 The box contains 1 pc for each code.





#### **PROSTHETIC SCREW**



INN-6050





Place the pre-selected abutment inside the analog.

Individualize the temporary abutment.



Hand-tighten the temporary abutment using the hexagonal screw.





Coat the internal configuration of the crown with temporary cement and cement it on the temporary abutment.



Cement the superstructure to the abutment and remove superfluous cement.

# TEMPORARY ABUTMENTS - TITANIUM

User-adjustable temporary abutments in titanium.

#### **INTENDED USE**

- User-adjustable both by doctor and technician.
- Anterior and posterior area
- Non-rotating abutments are used for:
- Screw- or cement-retained temporary crowns;
- Cement-retained temporary bridges.
- Rotating abutments are used for screw-retained temporary bridges.

#### **CHARACTERISTICS**

- Narrow diameter for interdental spaces.
- Precise fit and high stability due to titanium material.
- Conexa connection.

#### NOTE

Do not use for longer than 180 days.

Place temporary restorations out of occlusion. The temporary abutment can be shortened vertically no more than 6 mm with usual tools and technique. The devices are provided non-sterile and they are for single use only. Abutment can be steam sterilized ( $134C^{\circ}/5$  Min).

#### NON-ROTATING STRAIGHT ABUTMENTS



#### ROTATING STRAIGHT ABUTMENTS Complete with prosthetic screw









Fabricate the master cast including a gingival mask.



For optimal esthetic planning, model a full anatomical wax-up.

Make a sili the full was in order to optimal sh customized abutment.

Make a silicon key over the full wax-up in order to define the optimal shape of the customized temporary abutment.



Place the Try-Inn abutment on the implant or implant analog.

This will aid in checking the gingival height.

3





7

9

Mount the temporary abutment on the master cast or in patient's mouth. Mark the appropriate heights according to the individual situation.

Sandblast and coat with opaque.

Temporarily seal the screw channel.

Press the silicon key on

the model and use a standard technique to fabricate the temporary

crown.



10





Shorten the temporary abutment and then check the heights with the silicone key previously cut.

Fill the silicon key with acrylic resin.

Remove excess acrylic.

Place the temporary restoration on the implant and tighten the screw with torques of 25 Ncm.



Polish and clean the temporary restoration,

Reopen the screw channel.



Surgical procedures Laboratory procedures

# TRY-INN KIT ABUTMENTS

Try-Inn kit abutments helps the dental technician to select the most suitable abutment, based on the inclination and the transmucosal height of the implant that has been inserted.



Try-Inn abutments are color-coded, well-marked on the holder and easily readable.

The box contains 3 pcs for each code (see table beside) for a total of 27 abutments.

Place the Try-Inn abutment on the implant (intra-oral use) or on the implant analog (extra-oral use).

This will aid in checking the gingival height (H.1, H.2 e H.3 mm) and axial alignment of the potential restoration (0°,  $15^{\circ}$  e  $25^{\circ}$ ).



		0° Ref.	15° Ref.	25° Ref.
	H1	PC107.01/1	PC107.02/1	PC107.03/1
	H2	PC107.01/2	PC107.02/2	PC107.03/2
	H3	PC107.01/3	PC107.02/3	PC107.03/3





Try-Inn abutments are fabricated in sterilizable polymer material. Easy to handle thanks to the plastic holder.



Turn the plastic kit upside down to read the corresponding ø5 titanium abutment.

#### 16

## CEMENTED-RETAINED RESTORATION



### TITANIUM ABUTMENTS Ø 5 (CEMENT-RETAINED RESTORATION)

 $\varnothing$  5 indicated for anterior area.

They are available in 3 heights (H. 1, H. 2, H. 3 mm) according to the gingiva, mimicking optimal preparations of natural teeth, which provide the opportunity to create esthetics for all teeth.

The package contains: 1 abutment and 1 prosthetic screw.

		P		
	0° Ref.	15° Ref.	25° Ref.	Ref.
H1	INN-2000	INN-2015	INN-2025	INN-6050
H2	INN-2001	INN-2016	INN-2026	INN-6050
H3	INN-2002	INN-2017	INN-2027	INN-6050
H4	INN-2004	INN-2018	INN-2028	INN-6050
H5	INN-2005			INN-6050
H6	INN-2006			INN-6050

### TITANIUM ABUTMENTS Ø 6 (CEMENT-RETAINED RESTORATION)

 $\emptyset$  6 indicated for posterior area.

They are available in 3 heights (H. 1, H. 2, H. 3 mm) according to the gingiva, mimicking optimal preparations of natural teeth, which provide the opportunity to create esthetics for all teeth.

The package contains: 1 abutment and 1 prosthetic screw.



## TITANIUM ABUTMENT CEMENTED RESTORATION



Fabricate the master cast including a gingival mask.



3

Make a silicone key over the full wax-up in order to define the optimal shape of the customized titanium abutment.

Place the pre selected

abutment inside of the

analog.







For optimal esthetic planning, model a full anatomical wax-up.

Place the Try-Inn abutment on the implant or implant analog.

This will aid in checking the gingival height (H.1, H.2, H.3 mm) and axial alignment of the potential restoration (0°, 15° e 25°).

(See page 16)

Modify the abutment as required.

Wax an individual resin cap onto the abutment.



Sandblast the modified abutment.

Once the ceramic cap will be cemented, the sandblasting increase the mechanical attach.



5





11

Contour a wax model according to the anatomical circumstances of the individual cast.

Investment.

Cast the framework in the conventional manner.



12

Check the wax-up with the silicone key.

Gently divest the customized abutment with ultrasound, water jet, pickling acid or a glass fiber brush.



Verify that the metal crown fits precisely on the customized abutment.

Note: The long term success of the prosthetic work depends on the accurate fit of the restoration. The entire procedure will have to be repeated, if casting errors occur.

Veneer the superstructure.





Sandblast the metal crown in order to create a mechanical attach with the veneer.

Position the abutment in the implant and tighten the screws to 25 Ncm using the hexagonal screwdriver along with the torque ratchet.



# CASTABLE ABUTMENT - PLEXIGLASS

#### **INTENDED USE**

Cement-retained bridges via mesostructure (custom abutment technique).

#### **CHARACTERISTICS**

- Easy-to-achieve esthetics due to individual realization of the emergency profile and adaptation to the margin of the gingival contour.
- Superfluous cement easily removable by raising the cement margin using an individually designed mesostructure.





#### **PROSTHETIC SCREW**



## IMPORTANT NOTE

- The use of castable abutments for Duravit implant system is not advisable, due to the difficulty to obtain a perfect conical fitting between implant and abutment.
- Use the castable abutment only in cases of extreme disparallelism.
- Do not use for a single crown.

TIGHTENING:



The tightening of the prosthetic screw is realized with the 1.27 hex screwdriver and torque ratchet. For the final seating are recommended torques of **25 Ncm**.

20





Fabricate the master cast including a gingival mask.





For optimal esthetic planning, model a full anatomical wax-up.

Make a silicone key over the full wax-up in order to define the optimal shape of the abutment.

Modify the abutment as required.



Place the pre selected abutment inside the analog.



Invest the customized abutment.





Sandblast the modified abutment.

Sandblast the metal crown in order to create a mechanical attach with the veneer.

Veneer the superstructure.



Wax an individual resin cap onto the abutment.

Investment of the resin cap.

Cast the framework in the conventional manner.

Surgical procedures Laboratory procedures

### **INVESTMENT**



In order to avoid overflow of the cast-on alloy, clean the copings thoroughly prior to investment (removal of wax particles, insulating agents with a cotton pellet or brush moistened with alcohol).

Ensure that there is no wax on the delicate margin. The use of investment materials for rapid heating methods (speed investment materials) is not recommended.

When processing the investment material, follow the manufacturer's instructions. Observe the recommended mixing ratio and preheating time exactly.

Make sure the screw channel and the internal configuration of the copings are filled with investment material from the bottom to the top in order to avoid air bubbles (see images).

# MULTI-SCAN ABUTMENT



#### **INTENDED USE**

- Cemented-retained restoration.
- Screw-retained restoration.
- Single and multiple crowns

#### **CHARACTERISTICS**

- Possibility of creating a transmucosal profile customized for every single patient.
- NIMETIC CEM (3M Espe), PANAVIA 21 (Kuraray Medical Inc.) are the materials recommended for bonding the prosthetic manufacture.
- Conexa connection

#### **NON-ROTATING MULTI SCAN**

Complete with prosthetic screw



### **ROTATING MULTI-SCAN**

Complete with prosthetic screw



#### **TIGHTENING:**



The tightening of the prosthetic screw is realized with the 1.27 hex screwdriver and torque ratchet. For the final seating are recommended torques of **25 Ncm**.

The portion of the abutment can be customized as follows:

#### WITH TRADITIONAL METHOD

Utilization of a pre-fabricated castable placed on the abutment, that need to be adjusted and modeled with wax and/or acrylic, and fabrication of the portion of customized abutment through fusion.

#### WITH CAD/CAM

Scanbody allows to digitally get the abutment position on the model. The customized modelling includes a dedicated software and a laboratory working with drilling machine (CAM). Interface, link and B&B Dental scanbody are available for the following libraries:





INN-00651







INN-SCAN

# TI BASE **CEREC** (Linea L)

#### **INTENDED USE**

- Cemented-retained restoration.
- Screw-retained restoration.

#### **CHARACTERISTICS**

- Titanium base.
- Completely customized prostheses.
- Use of CAD/CAM technology for the production of zirconium abutments that has to be fixed on the central pillar.
- Conexa connection.

#### CEREC BASE

Complete with prosthetic screw



### PROSTHETIC SCREW



#### NOTE:

Scanbodies are included in ScanPost and TiBase for the implant optical acquisition. The grey cap is used with omnicam system. The white cap is used with bluecam system. 2 different connections are available: S (code: 6431295) and L (code: 6431303).

# UCLA ABUTMENT

#### **INTENDED USE**

- Ideal for overcasting.
- Cemented-retained restoration.
- Screw-retained restoration.
- Use for single or multiple crowns.

#### CARACTERISTICS

- Made of gold.
- Completely customizable.
- Model anatomically the gingiva.
- Conexa connection.

**UCLA ABUTMENT** 

Complete with prosthetic screw



INN-6048





INN-6050



## MULTI-SCAN ABUTMENT SCREWABLE RESTORATION WITH THE TRADITIONAL METHOD



For optimal esthetic planning, model a full anatomical wax-up.



5

Place the multi-scan abutment on the analog and hand-tighten the screw using the hexagonal screwdriver.

Place the castable cilinder onto the multi-scan abutment.

Casting and divestment. Cast the framework in the conventional manner.









Make a silicone key over the full wax-up in order to define the optimal shape of the customized titanium abutment.

Contour a wax model according to the anatomical circumstances of the individual cast.

Check the wax-up with the silicone key.

Check that the hole of the prosthetic screw is free of residues.

Verify that the metal crown fits precisely on the customized abutment.

Sandblast the metal crown in order to create a mechanical attach with the veneer.

Veneer the superstruture.

Position the abutment in the implant and tighten the screws to 25 Ncm using the hexagonal screwdriver along with the torque ratchet.



Cement the superstructure to the abutment.

Remove superfluous cement.



## MULTI-SCAN ABUTMENT SCREWABLE RESTORATION WITH CAD/CAM



Fabricating the scan model.

Fabricate a master cast with the corresponding analog.
Option A: Fabricate a duplicate model made from scan plaster.
Option B: Cast the master cast directly by using scan plaster.
For optimal esthetic planning, model a full anatomical wax-up and scan it too.
To determine the spacing available for further processing, the silicone key can be viewed on-screen.





С

Put the scan model in the laser scanner.

Shape the abutment on screen, using the software.



Based on the design data, the customized structure is manufactured by a melling center.

Cement the zirconium cap to the multi-scan

Check the zirconium

framework.

Veneer the superstructure.

abutment.

Remove superfluous cement.

Tighten the prosthetic screw to 25 Ncm using the hexagonal screwdriver along with the torque ratchet.





# MULTI-USE ABUTMENTS



#### **INTENDED USE**

- Screwed bridges
- "All-on-four" and "All-on-six" prosthesis
- Bar-retained overdentures.

#### STRAIGHT MULTI-USE ABUTMENT

The straight multi-use abutment has a conical top with an external hexagon, that allows to tighten it by mean of a multi-use driver (manual or ratchet connection).

#### ANGLED MULTI-USE ABUTMENT

The 17° and 30° angled multi-use abutments help to achieve parallelism for non-parallel implants. They are can be easily connected through a multi-use holder (Ref. 023MUA) and then fixed with a prosthetic screw.

#### STRAIGHT ABUTMENTS



#### **17° ANGLED ABUTMENTS**

Complete with prosthetic screw



ø 5

# H. 3

### **30° ANGLED ABUTMENTS**

Complete with prosthetic screw



INN-3050/1



INN-3050/2



INN-3050/3

#### **PROSTHETIC SCREW**





INN-5146

SHORT INN-5146S

### **IMPORTANT NOTE**

The correct position of angled abutments can be checked considering that the external hexagon of the driver is in phase with the internal hex.

**WARNING:** Implant with a lenght of 6,5 mm requires the use of a specific prosthetic screw, shorter than the standard one.

#### **TIGHTENING:**



The tightening of the prosthetic screw is realized with the 1.27 hex screwdriver and torque ratchet. For the final seating are recommended torques of **15 Ncm**.

### SURGICAL ACCESSORIES



HEALING CAP SCREW INN-6030



CLOSED TRAY TRANSFER INN-00611



MUA POST SCREW INN-00612



OPEN TRAY TRANSFER INN-00610 Complete with transfer screw

#### LABORATORY ACCESSORIES



CONNECTING SCREW INN-6051

MUA ANALOG INN-00586



TEMPORARY ABUTMENT INN-5144 Complete with connecting screw



CASTABLE ABUTMENT AN INN-5145 Complete with connecting screw



SPHERICAL ANCHOR Ø 2.3 INN-1023



SCAN BODY Compatible with the following libraries:3Shape/ Exocad/Dental Wings/Carestream/ Sicat

#### **IMPORTANT NOTE**

Il serraggio della vite protesica va effettuato con cricchetto dinamometrico e chiave protesica 1,27. Vengono raccomandati torques di **15 Ncm** per l'alloggiamento finale.





## BRIDGE SCREWABLE PROSTHESIS TAKING IMPRESSION



Position the multiuse abutments in the implants.

Tighten them to 25 Ncm using the screw driver (ref. INN- 00637) along with the torque ratchet.

Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Note: Due to its low tensile strength, hydrocolloid is not suitable for this application.

Unscrew close tray transfers from the mouth and send all to the dental technician.







Screw the close tray transfers onto the multiuse abutments.

Once the material is cured, carefully remove the tray.

The elastomer will take the conical shape of the close tray transfer for a safety reposition of the analog.

Screw the healing caps onto the multi-use abutments in order to keep opened the soft tissues until the final restoration is inserted.



Screw the transfer onto the multi-use analog.

Push the transfer and analog in the tray. It is now firmly seated in the impression tray.



A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).

## **TEMPORARY PROSTHESIS**



11

For optimal esthetic planning, model a full anatomical wax-up.

10

Place the temporary cylinder on the multiuse analog.

This will aid in checking the gingiva height



Make a silicon key over the full wax-up in order to fine the optimal shape of the customized temporary abutment.

Shorten the temporary abutment and then check the heights with the silicone key previously cut.



Sandblast and coat with opaque.

Remove excess acrylic.

temporary restoration.

Polish and clean the

Reopen the screw

. channel.





Fill the silicon key with acrylic resin and press it on the model and use a standard technique to fabricate the temporary crown.

Place the temporary restoration on the implant and tighten the screw with torques of 25 Ncm.





## **DEFINITIVE PROSTHESIS**



Fabricate the master cast including a gingival mask.

10









For optimal esthetic planning, model a full anatomical wax-up.

Place the castable cylinder on the analogs and hand tighten the occlusal screws using the screw driver.

Note: Do not over tighten the castable cylinder.

Fabricate the superstructure on the abutments using standard modeling methods.

Make sure that the wax layer on the abutment is sufficiently thick (at least 0.7 mm).

Check that the wax framework of the bridge is absolutely tensionfree before investing the framework.

This is accomplished according to commonly known bridge techniques.



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Shorten the castable cylinder to the height of the occlusal floor according to the individual situation.

15

Check the wax-up with the silicone key.



Invest the bridge framework according to standard methods without using wetting agents.



Gently divest the customized abutment with ultrasound, water jet, pickling acid or a glass fiber brush.

Sandblast and coat the superstructure.



Control for tension-free fitting on the master cast.

If the bridge is not tension-free and wiggles, cut the bridge and resplint it tension free.



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Veneer the superstructure.



Do an additional try-on of the tension-free fit of the framework in the patient's mouth.



Tighten the occlusal screws to 25 Ncm, using the hexagonal screwdriver along with the torque ratchet.

# EQUATOR ANCHOR SYSTEM





## EQUATOR INDIRECT TECHNIQUE



Select the height of the Equator abutment.

The top margin of the abutment should be 1 mm above the mucosa.

Tighten the abutment to 25 Ncm using the ratchet along with the torque control device.

Take the impression utilizing the mucodynamic technique (vinyl polysiloxane or polyether rubber).

Send the impression to the dental laboratory.



Place the impression copings on the Equator abutments.

Place the analogs inside the impression copings.





A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).

The dental technician returns the completed Equator overdenture to the doctor's office for final placement.



Place the denture caps with the black processing males onto the Equator abutments, or the analogs in the master cast.



# SPHERICAL ANCHOR SYSTEM



#### INTENDED USE

Dentures retained by implants in the mandible and maxilla.

#### **CHARACTERISTICS**

- Simple.
- Divergence compensation up to 20° between two implants.
- Minimum height for limited occlusal space.
- Reliable.
- Excellent long-term performances due to high wear on resistance of components.



#### Ø 1.8 METAL HOUSINGS

The prosthetic housings are available in three different retentions, achieved by using the appropriate silicon o-ring and metal housing.



Ø 2.3 ONLY PLASTIC CAPS

NOTE: The metal housing contains inside the plastic cap.

6pcs each package

Ø 2.3 PLASTIC CAPS AND METAL HOUSING

### Ø 2.5 PLASTIC CAPS AND METAL HOUSING

NOTE: The metal housing is sold individually, without having a plastic cap inside.

SOFT INN-00629/1

MEDIUM HARD INN-00629 INN-00629/3



SOFT INN-00630/S

MEDIUM HARD INN-00630/H INN-00630



ELASTIC

049PCN

(6 pieces)

SOFT 040CRN SN (6 pieces)

EXTRA SOFT 060CRN AY

(6 pieces)



041CAN (2 pieces)



## **O-BALL ABUTMENT INDIRECT TECHNIQUE**





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Select the height of the O-ball abutment.

The top margin of the abutment should be 1 mm above the mucosa.

Tighten the abutment to 25 Ncm using the ratchet along with the torque control device.

Take the impression utilizing the mucodynamic technique (vinyl polysiloxane or polyether rubber).

Send the impression to the dental laboratory.



Place the metal housing onto the spherical anchors.

Once the material is cured, carefully remove the tray.

The impression cap remains in the impression material.



A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).



Place the denture caps onto the O-ball abutments, or the analogs in the master cast.



The dental technician returns the completed o-ball overdenture to the doctor's office for final placement.

## EQUATOR DIRECT TECHNIQUE

## O-BALL ABUTMENT DIRECT TECHNIQUE



Select the height of the Equator abutment.

The top margin of the abutment should be 1 mm above the mucosa.

Tighten the abutment to 25 Ncm using the ratchet along with the torque control device.

Place the protection disc first and then the metal cap.





Select the height of the O-Ball abutment.

The top margin of the abutment should be 1 mm above the mucosa.

Tighten the abutment to 25 Ncm using the ratchet along with the torque control device.

Place the protection disc first and then the metal cap.





Hollow out the existing denture base in the areas of the denture caps.





The dental technician returns the completed o-ball overdenture to the doctor's office for final placement.



Hollow out the existing denture base in the areas of the denture caps.

The dental technician returns the completed o-ball overdenture to the doctor's office for final placement.

## BAR SYSTEM





## BAR SYSTEM SCREWABLE PROSTHESIS IMPRESSION TAKING



Select the height of the multi-use abutment.

The top margin of the abutment should be 1 mm above the mucosa.

Tighten the abutment to 25 Ncm using the ratchet along with the torque control device.

Make perforations in the custom-made impression tray.





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Place the impression post accurately into the implant and tight the transfer screw by hand (Fig. A) or using the hexagonal screwdriver.

Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

Note:

Due to its low tensile strength, hydrocolloid is not suitable for this application.

Fix the analog in the impression using the transfer screw.

A gingival mask should always be used to ensure that the emergence profile of the crown is optimally contoured.

Fabricate the master cast using standard methods and type 4 dental stone (DIN 6873).



Once the material is cured, loosen the transfer screws and remove the tray.



Analogs fixed inside the transfer.

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## **DEFINITIVE PROSTHESIS**



Place the castable cylinder on the analogs and hand tighten the occlusal screws using the screwdriver.

Shorten the castable cylinder according to the individual situation.



Fabricate the bar by using the parallelometer.

Note: The space between the bar and the gingiva must be at least 2 mm.



Use a residue-free burn-out plastic to fix the bar segments to the castable cylinder.



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Do an additional try-on of the tension-free fitting of the framework in the patient's mouth.



Check that the wax framework of the bar is absolutely tensionfree before investing the framework. This is accomplished according to commonly known techniques.

Tighten the occlusal screws to 25 Ncm using the hexagonal screwdriver along with the torque ratchet.





**B&B** DENTAL implant company

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