SHAPE TISSUE EFFECT

TRANSMUCOSAL ABUTMENT
FOR IMPLANT LINES

IMPLASSIC FT3
IMPLASSIC FTP
IMPLOGIC® AT
IMPLASSIC FT2 SHORT
IMPLOGIC® GII
TRANSMUCOSAL ABUTMENT
FEATURES AND BENEFITS

New prosthetic component that promotes the conditioning of peri-implant tissues, guaranteeing ample flexibility during the prosthetic phases.

It simplifies the prosthetic procedure for the benefit of the peri-implant tissue, since it moves the implants’ engagement platform from internal to external connection, from the bone level to the soft tissues level. Not suitable for single prostheses.

Once positioned, according to the prosthetic emergency, it is no longer removed, thus guaranteeing the stability of the surrounding peri-implant tissues.

By acting on the transmucosal abutment with a 30Ncm torque, a perfect intimacy of the abutment-implant interface is ensured. This prevents migration and bacterial colonization on the “pumping effect” action.

It can be prosthesis both with immediate loading, in a variety of secondary components suitable for the planned prosthetic project, and with deferred loading, preserved by a protective cap that leaves the soft tissue undisturbed for an optimal tissue adaptation and a complete implant integration. The external connection platform offers a wide range of prosthetic solutions to better manage the prosthetic needs of each project.

Available for FTP, ImpLassic And ImpLogic® implant connections, in different types of transgingival height.
Vertical and horizontal gap reduced to a minimum, thus minimizing the rotation between the components and the inflammatory infiltrate area, one of the major causes of peri-implant bone resorption. A lot of scientific literature produced in the 1990s by Paul Bynon in the United States, considers valid a matching between implant and abutment that does not exceed 4° of rotation. Working with minimum tolerances and making tight checks, Dental Tech manages to obtain a rotation between the parts in question ranging from 0.18° to 0.93°, ensuring excellent stability of the connection and excellent mechanical sealing of the prosthetic screw.

Hexagonal platform
Ø 4.1 mm standard
**TRANSMUCOSAL ABUTMENT**

**H height mm**

**ImplLassic FTP Implant Line**

<table>
<thead>
<tr>
<th>Height (H) mm</th>
<th>REF</th>
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<tbody>
<tr>
<td>2</td>
<td>003335</td>
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<td>4,5</td>
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*Prosthetic screw included and available as a replacement (REF VBT3700)

**H height mm**

**ImplLassic Ø 3.25 Implant Line**

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*Prosthetic screw included and available as a replacement (REF VBT3700)

**H height mm**

**Impllogic® and Impllassic Ø 3.75 Implant Lines**

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*Prosthetic screw included and available as a replacement (REF VBT3700)

**HEALING CAP**

<table>
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<tr>
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**PROSTHETIC SCREW**

<table>
<thead>
<tr>
<th>REF</th>
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</thead>
<tbody>
<tr>
<td>VBT3700</td>
</tr>
</tbody>
</table>

*Warning* Transmucosal abutments in combination with the prosthetic components must always use the prosthetic screw VBT3700
**OVERVIEW PROSTHETIC COMPONENTS**

### COMPONENTS FOR IMPRESSIONS AND MODELS

**PICK-UP IMPRESSION COPING**
- REF HTC4110 Cylindrical

**IMPLANT ANALOG**
- REF HLA4100

*VHTP5010 *VHTP2128

**FIXING SCREW**
- Included in the package REF VHTP5010 and REF VHTP2128
- With the Transmucosal abutment, use ONLY the REF VHTP2128 with shorter thread, also sold individually as a replacement.

### PROSTHETIC COMPONENTS

**TEMPORARY STRAIGHT ABUTMENT**
- Ø Peek

**STRAIGHT ABUTMENT**
- 4.1 REF HSA0041

**ANGLED ABUTMENT**
- 15° 25° REF HPA1541

**TEMPORARY ABUTMENT**
- Peek

**CYLINDER**
- REF HPP0060

**GOLD ABUTMENT**
- REF HGE6010

**CASTABLE ABUTMENT**
- REF HPE4160

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**OVERVIEW PROSTHETIC COMPONENTS**

**FIXING SCREW**
- Included in the package REF HFF2010.
- With the Transmucosal abutment, it must be replaced with REF VBT3700, also sold individually as a replacement.

**PROSTHETIC COMPONENTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>REF</th>
<th>Material</th>
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<tr>
<td>TEMPORARY STRAIGHT ABUTMENT</td>
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<td>STRAIGHT ABUTMENT</td>
<td>HSA4115</td>
<td>Pmma</td>
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<td>ANGLED ABUTMENT</td>
<td>HPA4121</td>
<td>Au</td>
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<td>TEMPORARY ABUTMENT</td>
<td>HKE4160</td>
<td>PMMA</td>
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<tr>
<td>CYLINDER</td>
<td>HPP0060</td>
<td>PMMA</td>
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<tr>
<td>GOLD ABUTMENT</td>
<td>HGE6010</td>
<td>PMMA</td>
</tr>
<tr>
<td>CASTABLE ABUTMENT</td>
<td>HPE4160</td>
<td>PMMA</td>
</tr>
</tbody>
</table>

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* While stocks last.
**CAD CAM COMPONENTS**

**BONDING BASE**
- REF *HFF2010*
- Digital CAD-CAM and Traditional Bonding technique, For single screwed and cemented elements. For multiple cemented elements.
- 20Nm Torque adapter REF TW0001

**ROTATIONAL BONDING BASE**
- REF *HFF2010*
- Digital CAD-CAM and Traditional Bonding technique, For multiple screwed and cemented elements.
- 20Nm Torque adapter REF TW0001

**DIGITAL ANALOG**
- REF 60.992
- Analog for digital models, specific for applications through the manufacture of models made with 3D printing/prototyping. The characteristic shape with rounded edges, allows easy insertion into the model seat, without interference and friction with the resinous material of the models. The apical screw allows to always obtain a total working stability. This prosthetic component must be used through the Dental Tech Libraries.

**SCAN ABUTMENT**
- REF *HFF2010*
- Suitable for digital CAD-CAM technique, for intraoral and laboratory scans. For single screwed and cemented elements. For multiple cemented elements.

**OVERVIEW PROSTHETIC COMPONENTS**

**DIGITAL ANALOGUE - INDICATIONS OF USE**

**CORRECT POSITIONING**

**WARNING**
DO NOT orient the Scan Abutment in the unsuitable and aligned secondary position

It is necessary to match up the smaller portion of the Scan Abutment, which is always oriented on the hexagonal side of the connection, with the side of the external square shape of the analogous digital body.

**FIXING SCREW**
Included in the package REF HFF2010. With the Transmucosal Abutment it must be replaced with REF VBT3700, also sold individually as a replacement.
The dynamometric ratchet, after each use, must be disassembled for cleaning. This maintenance operation does not require any tools. Completely unscrew the screw (A), remove the whole pawl (B) and then the flexible dynamometric bar (C). Once disassembled, clean according to the instructions for use and maintenance attached to the device, brush with non-metallic rigid bristles, even in hollow areas with pipe cleaner for a complete removal of biological residues.

Once the cleaning and disinfection phase has been completed, reassemble the ratchet using the reverse disassembly procedure, making sure to match the pin (D) in the housing dedicated.
**PREVENTION**

Besides correct and continuous long-term maintenance, wear and tear of the instruments can also be prevented and slowed down. In the first place every instrument must only be used for the envisaged and indicated use. The instruments used must be cleaned immediately after the end of surgery. Remove residue and encrustations only with soft brushes and NOT with metal brushes. When envisaged, disassemble the instruments and deeply clean the cavity. The devices must be fully immersed in the most appropriate detergents or disinfectants for the material, and left to rest for a period of time that never exceeds the manufacturer's instructions. After disinfecting them, rinse thoroughly with water and dry the devices with a clean and dry cloth. Complete with a jet of compressed air.

**PACKAGING AND STERILITY**

- Dental Tech tools are supplied as non sterile in heat-sealed Pouches in containing the leaflet.
- Dental Tech tools can be used again and therefore it has to be washed and sterilised prior to their usage.

Dental Tech validated the following cleansing and disinfection method:

**MANUAL CLEANING**

- Just after the use of Dental Tech equipment, place the equipment into a container with a peracetic acid based solution at concentration of 2% (NO GLUTARALDEHYDE OR SODIUM HYPOCHLORITE), as long as 18 minutes.
- After-ward rinse carefully.

**MANUAL DISINFECTION**

- Place the equipment into a container with a peracetic acid based solution at concentration of 4% (NO GLUTARALDEHYDE OR SODIUM HYPOCHLORITE), as long as 15 minutes.
- Rinse generously
- Examine the equipment and make sure there are no organic remains. Carefully scrub the outer parts with a non-metal bristled brush.

**MANUAL RINSE**

- Place the equipment into ultrasound bath, and wash it for approx. 18 minute and then rinse carefully.

**DRY**

- Perfectly dry the equipment, seal it individually with material suitable for moist heat sterilisation.

**STERILIZATION**

- Dental Tech validated the following Autoclave moist heat sterilization cycle: 3 minutes - 134 °C
- Since Dental Tech tools are manufactured in different materials, they shall be washed and sterilized one by one.

**CHECK**

After the cleaning phases, check that none of the instruments presents signs of corrosion, contamination or damage. Especially use a magnifying lens to check the most concealed areas, the joints and the handles. If any contamination is detected, repeat the cleaning procedure. In case of damage, dispose of the instrument as established by the laws in force for waste management.

**Warning** The use of suitable protection during cleaning and sterilisation of contaminated instruments enhances personal safety during these phases.

**PRESERVATION**

After the sterilisation phase, the instruments must be preserved in the sterilised package in a dry, dust-free place, far from heat sources. The bags must only be opened before use. The storage period of sterilised items must not exceed the period recommended and indicated on the bag.

**DISPOSAL PROCEDURES**

At the end of its life the medical device must be disposed of according to the methods established by national laws in force for waste management.
NON-ROTATING INSTRUMENT
The non-rotating instrument is compatible with all Dental Tech implant systems.

WARNINGS
RESPONSABILITY The use of non-original components, produced by third-parties may compromise the functionality of the implants and their elements, compromising the final result and voiding the guarantee of the manufacturer. The application of the product occurs outside the control of Dental Tech and is the sole responsibility of the end user. We accept no liability for any damage resulting from such activities.

INSTRUCTIONS FOR USE These are to be considered solely as recommendations. This information is not sufficient and does not exempt the user from ensuring the adequacy of the product for its intended use through continued training.

VALIDITY This nullifies all previous versions. The images, the content and the products illustrated are subject to modification without warning.

MATERIALS LEGEND

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<thead>
<tr>
<th>Character</th>
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<tbody>
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<td>Au</td>
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<tr>
<td>inox</td>
<td>Surgical Stainless Steel</td>
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<tr>
<td>Peek</td>
<td>Polytetereterrachetone</td>
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<tr>
<td>Pmma</td>
<td>Polymethylmethacrylate</td>
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<tr>
<td>Ti</td>
<td>Titanium gr.V ELI for medical use</td>
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PACKAGING SYMBOLS LEGEND

<table>
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<tr>
<th>Symbol</th>
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<tbody>
<tr>
<td>LOT</td>
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<tr>
<td>STERILE</td>
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<tr>
<td>RIVITILIZZABILE</td>
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<td>i</td>
<td>Attention, consult the supplied documentation</td>
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<td>Notified body identification</td>
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</table>

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BIBLIOGRAPHY


The Role of Surface Topography
Herman, J Perio 1997;68:1117-1130.


Topografia della neoformazione ossea perimplantare: studio sperimentale G Petrone, G. Iezzi, M. Piattelli, A. Scarano Dipartimento di scienze Odontostomatologiche, Università “ G. D’Annunzio” Chieti- Pescara.

Surface Chemistry Effects of topographic Modification of Titanium Dental Implant Surfaces:
1. Surface Analysis

Surface Chemistry Effects of topographic Modification of Titanium Dental Implant Surfaces:
2. In Vitro Experiments

Valutazione della precisione della connessione tra moncone ed impianto
Benedicenti S.* / Balboni C.** / Maspero F. * / Benedicenti A.* Quintessence International 3/4 bis 2001

Adesione cellulare epiteliale su superfici di titanio sabbiate e acidificate: studio in vitro
I. Vozza / A. Scarano* / S. Rossi / M. Quaranta
Supplemento n.1 a Doctor OS anno XIV n.1 gennaio 2003

Valutazione istologica della risposta ossea a una nuova superficie implantare sabbiatata e mordenzata: uno studio sperimentale sul coniglio Antonio Scarano / Giovanna Iezzi* / Alessandro Quaranta** / Adriano Piattelli*
Implantologia orale numero 2 marzo 2007

Dentista moderno ottobre 2011
Progettazione e realizzazione di una superficie impiativa dalla decontaminazione all’osteointegrazione
Chiara Giamberini / Angelo Tagliabue / Dino Azzalin / Giorgio Santarelli

Platform switching: a new concept in implant dentistry for controlling postrestorative crestal bone levels.
Lazzara RJ / Porter SS.

IVela-Nebot X, et al.
Benefits of an implant platform modification technique to reduce crestal bone resorption.
Implant Dent 2006;15:313–320

SALE CONDITIONS

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The Company reserves the right to modify the Pricelist at any time, and without prior warning.

The goods travel at the risk of the Customer, even if delivered postage free.

Payment must occur according to the agreed terms and method. In the event of non-fulfilment, the Company reserves the right to vary the conditions of payment for the new supplier or to suspend them and to resort to any other precautionary and executive measures for a total recovery of the sum owed.

The delivery terms have an indicative value. The Company reserves the right to make partial deliveries.

Each claim for defect or damage must be communicated in writing within 8 days of receiving the goods. Any returns must be previously authorized by the Company.

For everything not expressly stated in the General Terms of Sale the provisions of Italian law shall apply. All disputes fall under the jurisdiction of the Court of Monza.

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