Bioblock®
A BIOMECHANICAL AND BIOLOGICAL CONCEPT
BioBlock®

- The prosthesis is joined to the implant by an intermediate transepithelial, screwed into the implant.
- The surface of each integral component (implant and transepithelial) is adapted specifically to the different tissues it will interact with.

**BIOLOGICAL SEAL**

The bond between the tissue and the transepithelial is established at the moment it is inserted. The prosthesis can be removed easily without damaging this junction, as the prosthetic platform is located at the gingival level.

**PROSTHETIC VERSATILITY AND REVERSIBILITY**

BTI transepithelials ensure the reversibility of the screw-retained prosthesis, enabling the height to be modified in situations of gingival morphology alterations.

**BIOMECHANICAL IMPROVEMENT**

By using 2 screws, the Bioblock concept ensures a better distribution of the stress in the joining components, optimising the mechanical behaviour.

*They are screw-retained to the implant at 35 Ncm and the screw that retains the prosthesis to the transepithelial at 20 Ncm*

**GUARANTEE OF HERMETIC SEAL**

The right design and high-precision machining of the BTI transepithelials’ connection provides a hermetic seal at the implant-platform level and therefore prevents bacterial invasion.

**INSTANT STABILITY**

The surface topography of the BTI implant system (triple roughness modified with calcium ions) maximises the initial anchoring of the implant to the bone.

**THE BEST CLINICAL DECISION FOR THE PREVENTION OF PERIIMPLANTITIS AND THE SUCCESS OF IMPLANT TREATMENTS.**
To achieve the biomechanical and biological advantages of the BioBlock® concept, BTI has developed a wide range of transepithelials, available for all platforms of its implant system.

SINGLE RESTORATIONS
(SCREW-RETAINED) AND COMPONENTS
OF CHOICE FOR IMMEDIATE LOADING

UNIVERSAL PLATFORM INTERNAL CONNECTION

**STRAIGHT UNIT**

- Internal connection to the prosthesis
- Tetra-lobed connection to the implant
- Heights: 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 mm

**EXPANDED UNIT UNIVERSAL**

- Prosthesis: 5.5 mm
- Gingival: 4.1 mm
- Heights: 2 - 2.5 - 3 - 3.5 - 4 mm

**EXPANDED transepithelials** change the platform (from Universal to Wide) and are indicated for rear-lower areas where a wider prosthetic emergence and greater preservation of soft tissue are needed.
WORKFLOW with UNIT®

Conventional workflow versus Digital workflow:

**IMPRESSION MAKING**
- Conventional: Manual impression
- Digital: Digital impression taking and scanning

**LABORATORY MODEL**
- Conventional: Physical model
- Digital: Computer design

**MODEL IMPRESSION AND ANALOGUE INSERTION**
- Conventional: Physical model
- Digital: Model impression and analogue insertion

**CONVENTIONAL MANUFACTURING PROCESS**
- Conventional: Manual manufacturing
- Digital: Machining
EXPANDED transepithelial change the platform (from Universal to Wide) and are indicated for rear-lower areas where a wider prosthetic emergence and greater preservation of soft tissue are needed.

It allows a divergence between implants of up to 56°, making it easier to take impressions and screw in the prosthesis with an excellent passive fit without the risk of stress on the implant or the prosthesis.

**MAXIMUM ANGULATION SUPPORTED BY A MULTI-IM®**

- **STRAIGHT MULTI-IM**
  - Rotating connection to the prosthesis

- **EXPANDED UNIVERSAL MULTI-IM**
  - Rotating connection to the implant
  - EXPANDED transepithelial change the platform (from Universal to Wide) and are indicated for rear-lower areas where a wider prosthetic emergence and greater preservation of soft tissue are needed.

- **ANGLED MULTI-IM**
  - ANGLED 17°
  - ANGLED 30°
  - Heights of Universal Platform Interna connection: 1.5 - 2 - 3 - 4 - 5 mm

**Heights of Universal Platform Interna connection:**

- 0.5 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 5 mm
- 1.5 - 2 - 3 - 4 - 5 mm
- 1.5 - 2 - 3 - 4 - 5 mm
WORKFLOW with Multi-Im®

Conventional workflow

1. IMPRESSION MAKING
2. LABORATORY MODEL
3. CONVENTIONAL MANUFACTURING PROCESS
4. MACHINING

Digital workflow

1. DIGITAL IMPRESSION TAKING AND SCANNING
2. COMPUTER DESIGN
3. MODEL IMPRESSION AND ANALOGUE INSERTION
4. MACHINING
Heights of Universal Platform Interna connection:
1.5 - 2 - 3 mm

MANUFACTURED FROM TITANIUM AND MADE UP OF 2 COMPONENTS:

1. A titanium nitriding treatment that gives biological and aesthetic advantages to the restoration.
2. A new tungsten carbide surface treatment that decreases the friction coefficient and improves the glide, which gives them the same properties as gold in terms of preload and resistance to fatigue.

The hermetic connection of the BTI Implant System and transepithelials provides a seal at the implant-platform level that prevents bacterial invasion. (in vitro studies)
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NOTE: consult your distributor for the availability of the product in the different markets.