3D PRINTED DENTAL IMPLANTS
IUXTA-3D

SCREW-RETAINED AND SPECIFIC: CUSTOMIZED FOR YOUR PATIENTS

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IUXTA-3D

IUXTA-3D subperiosteal implant represents a real innovation in the solutions for maxilla and mandibular severe atrophy. Through a totally digital workflow, starting with the patient’s exams, specialist can perform an accurate project, custom made for the individual needs of the patient.

Thanks to over 20 years of experience in dental implants, and to many documented clinical cases, we update IUXTA-3D subperiosteal implants: from now they are offered for screw-retained protocol, allowing to obtain appropriate and reliable prosthetic solutions.

A revolution in iuxta-osseous medical devices, that takes full advantage on the quality and precision of digital methods, by supporting them with the best manufacturing technology.

It is possibile to perform any kind of rehabilitations: from small edentulism to full arches, for mandibular or maxilla.

Innovative features of IUXTA-3D:

► DEDICATED TECHNICAL ASSISTANCE
  Dedicated report for each case from the planning to the surgery.

► 100% DIGITAL WORKFLOW
  Customized on each patient.

► REPORT CUSTOMIZED FOR EVERY CASE
  With 3D previews of the project and a detailed analysis of the implant and screws in relation to critical anatomical structures.

► IN TITANIUM FOR MEDICAL USE
  To guarantee the highest standards of biocompatibility and mechanical resistance.

► HIGH CONTACT SURFACE
  Optimized by FEM studies on strength analysis.

► DESIGN-SHAPED SCREW HOLES
  To ensure the best precision and facilitate surgery.

► SCREW RETAINED PROSTHESYS
  To ensure accuracy and oral hygiene.

► WIDE RANGE OF PROSTHETIC COMPONENTS
  To meet all restoration requirements.

► IMMEDIATE LOADING PROSTHESYS
  Manufactured and supplied before the surgery.

Prosthetic components for IUXTA-3D:

<table>
<thead>
<tr>
<th>Component Type</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Covering Caps BS</td>
<td>H5.7 with screw Kit 4pcs</td>
<td>330BS0A0.04</td>
</tr>
<tr>
<td>Base BT Link BS</td>
<td>H1mm Ø4.8mm No Cap. Rot with screw</td>
<td>247BS1A1</td>
</tr>
<tr>
<td>Temporary Abutment BS</td>
<td>Rotating with screw</td>
<td>210BS1R0</td>
</tr>
<tr>
<td>Transfer Propick-Up BS</td>
<td>Huitie18.5mm Rot. Long Screw</td>
<td>323BS0R0</td>
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<tr>
<td>Impression Post Pick-Up Screw M2 Hex1.20 H18.2mm</td>
<td></td>
<td>690NA308</td>
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<tr>
<td>Implant Replica BS</td>
<td>Rotating</td>
<td>301BS0R0</td>
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<tr>
<td>Scan Abutment Intra-oral BS</td>
<td>Rotating</td>
<td>352BS1A1</td>
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<tr>
<td>Scan Abutment Extra-oral BS</td>
<td>Rotating</td>
<td>351BS1A1</td>
</tr>
<tr>
<td>BT Link BS</td>
<td>H1mm Ø4.8mm Rotating</td>
<td>246BS1A1</td>
</tr>
<tr>
<td>CoCr Abutment BS</td>
<td>H1.5mm Rotating</td>
<td>240BS1R0</td>
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<tr>
<td>Castable Plastic Abutment BS</td>
<td>Rotating</td>
<td>205BS0R0</td>
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<tr>
<td>Retentive Screw M2 Hex1.20 for standard prosthetics</td>
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<td>690NA307</td>
</tr>
<tr>
<td>Retentive Flat Head Screw M2 Hex1.20 H5.2mm Tp for BT Link (CAD CAM prosthesis)</td>
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<td>690NA306</td>
</tr>
</tbody>
</table>

The IUXTA-3D implant is supplied with a 3D PRINTED RESIN REPLICA of the device and with the patient’s BONE MODEL.

If clinician wants to perform bone modeling during surgery, BTK can provide a SURGICAL GUIDE, to drive the ostectomies.

The BTK Milling Center can also manufacture and deliver the temporary restoration for immediate loading for a fully-digital workflow.

Otherwise BTK can provide the technician the materials for the construction of the temporary restoration.

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DIGITAL WORKFLOW
IUXTA-3D

CONE BEAM CT AND PRODUCTION OF A 3D VIRTUAL BONE MODEL
The process starts with the acquisition of the patient’s tomographic imaging and of a DICOM file. During the examination, the patient must wear a dedicated radiological guide. The DICOM file is sent by the clinician to the BTK TEAM. The BTK TEAM checks the feasibility of the case and starts the design phase.

DIGITAL PROCESSING OF THE IUXTA-3D STRUCTURE
IUXTA-3D is virtually modelled on the anatomy of the patient by the BTK specialists, using a dedicated software. The layout of the device is designed to bear the prosthetic load while guaranteeing the best passive fit. Abutment and screw positions are carefully evaluated on the bases of the prosthetic restoration and in compliance with soft and hard tissues management. The final project is then shared with the Prescribing Doctor, who can make changes and who confirms it before production takes place.

TITANIUM LASER MELTING - 3D PRINTING
After receiving the doctor’s prescription, BTK produces the device by means of “Selective Laser Melting” technique. Homogeneous layers of highly pure titanium powder are melted using a laser in a selective way, based on the 3D virtual model. Then BTK milling centre finalizes the device screw-retained abutments through a five-axis machine, ensuring the maximum mechanical precision. The final object meets high purity and microstructural homogeneity standards that guarantee high mechanical performance.

CLEANING, DECONTAMINATION, PACKAGING AND SHIPPING
The IUXTA-3D implant is decontaminated in an automatic ultrasonic machine, it is packaged in a cleanroom under controlled atmosphere and delivered ready for sterilization in the clinician’s office. All BTK production cycles are controlled and registered so as to guarantee the traceability of the product, in compliance with the most restrictive standards in the Doctor’s practice.

TEMPORARY RESTORATION
If required BTK Milling Centre can produce temporary restoration for immediate loading. Built according to the needs of patient and clinician, it can be used even immediately after surgery.

SURGERY AND SURGICAL APPLICATION
The surgery is performed under local anaesthesia or conscious sedation by qualified doctors.

BT SCREW SURGICAL KIT
Cortical screws kit for advanced surgery.
Ref. kit 667NA001

Immediate uploading of the DICOM file of the patient’s tomography
http://upload.btk.dental/btk3d
FEM ANALYSIS is a tool that allows to analyze the three-dimensional model of the medical device by predicting its behavior once subjected to the chewing load. It is therefore possible to optimize the device by studying the best points of support, anchoring and the best morphology to ensure the success of the rehabilitation.

BTK PERSONAL TUTOR

A program for individual case planning and execution supported by experienced professionals in order to leverage know-how and maximize clinical experience with the aim to achieve sustainable high patient satisfaction rates.

BTK is always at your disposal for any request for further follow-up or information, promoting periodic and ad-hoc training course.

CERTIFIED QUALITY SYSTEM

BIOTEC is certified UNI EN ISO 9001 and UNI EN ISO 13485.

Custom-made device, in accordance with Directive 93/42/EEC and subsequent modifications and additions. The Company is registered at Italian Health Ministry Register, of custom-made medical device manufacturers. Some products may not be available for non-European countries, due to different current law. Contact Biotec for more information and to know the availability in your Country.

BIBLIOGRAPHY


Cerea M, Olivetti F, Olivetti M: trattamento di grave atrofia mascelare con griglia e pterigo, www. Italian Dental Journal J. Dental Academy.it


MADE IN ITALY

USED GLOBALLY

We constantly ensure that the quality of our products and services meet the high expectations of our customers and their patients.

Specialized professionals are taking care to offer comprehensive solutions in applied research, engineering, education and related activities.

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