

INDICATIONS OF USE

GUIDED BONE REGENERATION (GBR) 3D-MESH

The 3D-MESH bone regeneration mesh is an implantable medical device made to measure for each single patient. It is made of biomedical titanium using the innovative Selective Laser Melting technology. The specific purpose of the GBR mesh is to keep the regeneration material inside the bone defect cavity and to guide the remodelling process according to specifically defined morphology and volume parameters. 3D-MESH is developed based on the dentist' plan and it is made in compliance with the specific treatment needs of each individual patient.

3D-BONE CUSTOMIZED BONE GRAFTS

The "3D-BONE" service offers clinicians not only innovative, synthetic bone grafts made to measure, modelled with utmost precision based on the patient's bone defect, but also a complete work flow that simplifies surgical procedures and drastically reduces the duration of surgery. Based on the patient's CBCT, the bone graft is produced using CAD-CAM technology. It can be used for small and medium sized bone reconstructions and to prepare the site for receiving one or several dental implants needed to replace missing teeth.

IUXTA-3D SUB-PERIOSTEAL IMPLANTS

The IUXTA-3D service permits to solve cases of extreme atrophy of the upper and lower jaw when the bone is not sufficient for conventional endosseous titanium implants. The juxta-osseous implant is designed based on the patient's examination, it is customized following the patient's anatomical features and prosthetic needs and it is made of biocompatible, certified titanium. It is placed during one surgical session and therefore it reduces the time and biological costs of conventional bone regeneration techniques.

IMPLANTABLE DEVICES FOR CRANIO-MAXILLO-FACIAL SURGERY

BTK can produce implantable medical devices for individual patients, in compliance with Directive 93/42/EEC and subsequent amendments and integrations. These devices are developed following the request of practitioner, based on the examination and needs of individual patients. They are made of biomedical titanium and are prepared via a verified and traced production process. These titanium restorations are a custom-made solution for patients needing major surgical rehabilitations.

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SURGICAL PROCEDURE

DRILLS	PIN / SCREW			
	 PIN Ø0.65mm	 SCREW Ø1.5mm	 SCREW Ø2mm	 SCREW Ø2.3mm
 Drilling Tool for Pins Ø0.5mm L29mm 415HR050				
 Lance Drill HR Ø1.2mm L36mm 415HR120				
 Lance Drill HR Ø1.5mm L36mm 415HR152				

In order to achieve a successful fixation of the screw with the bone site, a precise and low-trauma surgical technique is required. BTK suggests to prepare the fixation site using the adequate lance drills combined with a proper drilling process (suggested speed 800 rpm). During insertion of the fixation screw, do not exceed the maximum torque value (10 Ncm). The screws are tightened to a maximum value of 30 Ncm.

SURGICAL KIT BT SCREW

BTK's BT SCREW kit contains the more common medical and dental surgical tools suitable for the correct management of surgical procedure for the fixation of bone grafts, metallic grid and membranes on the mandible or maxilla. The kit contains also a set of fixation screws and pins, with several diameters and length, in order to cover all the surgical needs.



OVERVIEW

- COMPLETE**
with drills, screwdrivers, tools, etc.
- VERSATILE**
screw insertion using handpiece, wrench or manual driver
- FREE SLOTS**
for additional tools and spare parts
- SMALL DIMENSION**
19.0 x 13.8 x 6.0 cm
- AUTOCCLAVABLE**
Plastic box

SCREW ORGANIZER



- EASY ORGANIZATION**
up-to 150 fixation screws e 30 pins
- SCREW WITH Ø 1.5**
L=4,6,8, 10,12 and 14 mm
- SCREW WITH Ø 2.0**
L= 4, 6, 8 and 10 mm
- SCREW WITH Ø 2.3**
L= 4, 6 and 8 mm
- INNOVATIVE & SAFE**
detachable screw holder with cover
- 1:1 SCALE SKETCH**
check of screws dimension



**KIT CODE
667NA001**

INSTRUMENTS

DRILLING TOOL FOR PINS		
	Ø0.5mm L29mm	415HR050
LANCE DRILLS HR		
	Ø1.2mm L36mm	415HR120
	Ø1.5mm L36mm	415HR152
INSERTION DEVICE FOR PINS		
	L29mm	530HS020
HANDPIECE DRIVER		
	CR0.41 L29mm	530HS021
	CR0.41 L49mm	530HL004
MANUAL SCREWDRIVER		
	HEX1.20 L140 mm	530MA001

OPTIONAL INSTRUMENTS

DRILL EXTENSION HS		
	L28 mm	520HS003
TORQUE WRENCH JD		
	Reversible, 90 Ncm	501JD003
SURGICAL RETRACTOR		
	70x16mm / 50x12mm	502MA008
ADAPTER CONNECTION		
	ISO/HEX3.10-JD L10mm	530JD033

SCREW PORTFOLIO

PIN AND CORTICAL SCREW INCLUDED IN THE KIT					
	Ø0.65mm L2mm	30 pcs	167NA65A		Ø2mm L4mm CR0.41 10 pcs 167NA20C
	Ø1.5mm L4mm CR0.41	10 pcs	167NA15C		Ø2mm L6mm CR0.41 20 pcs 167NA20G
	Ø1.5mm L6mm CR0.41	10 pcs	167NA15G		Ø2mm L8mm CR0.41 20 pcs 167NA20J
	Ø1.5mm L8mm CR0.41	10 pcs	167NA15J		Ø2mm L10mm CR0.41 10 pcs 167NA20L
	Ø1.5mm L10mm CR0.41	10 pcs	167NA15L		Ø2.3mm L4mm CR0.41 10 pcs 167NA23C
	Ø1.5mm L12mm CR0.41	10 pcs	167NA15N		Ø2.3mm L6mm CR0.41 10 pcs 167NA23G
	Ø1.5mm L14mm CR0.41	10 pcs	167NA15Q		Ø2.3mm L8mm CR0.41 10 pcs 167NA23J

NOTE
Pins and fixing screws can be ordered separately in 10pc and 5pc packages respectively. Fixing screws are also available with dual acid etched surface. For more information, contact BTK.



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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.



CE marked product, in accordance with Directive 93/42/EEC and subsequent modifications and additions.

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.