GBR MESHES

3D-MESH

THE IDEAL, CUSTOMISED SOLUTION FOR GUIDED BONE REGENERATION (GBR).

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It allows the biomaterial to adapt perfectly to the patient’s bone anatomy and reduces the duration of surgery, thereby enhancing the success of bone regeneration.

The 3D-MESH bone regeneration mesh is an implantable medical device made to measure for each single patient, in compliance with Directive 93/42/EEC and its subsequent amendments and integrations.

It is used by dentists in GBR procedures and it is applied where there is the need to make up for the lack of autologous bone of edentulous patients.

The specific purpose of the GBR mesh is to keep the regeneration material inside the bone defect cavity identified by the clinician and to guide the remodelling process according to specifically defined morphology and volume parameters. Furthermore, the device permits to keep the bone tissue separate from the soft tissue, thereby protecting the inserted biomaterial and favouring bone regeneration.

3D-MESH is developed based on the clinician’s plan and it is made in compliance with the specific treatment needs of each individual patient.

CHARACTERISTICS

• 100% DIGITAL WORK FLOW
• HIGH CAD-CAM PRECISION
• TITANIUM LASER MELTING
• OPEN/CLOSED WEAVE
• DEDICATED OSTEOSYNTHESIS SCREWS
• THIN, STRONG, FLEXIBLE

<table>
<thead>
<tr>
<th>TYPOLOGY</th>
<th>DIMENSION</th>
<th>CODE</th>
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<tbody>
<tr>
<td>SMALL</td>
<td>20x20x25 mm (for small reconstructions)</td>
<td>C32TL10.00</td>
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<tr>
<td>MEDIUM</td>
<td>30x30x25 mm (for medium reconstructions)</td>
<td>C32TL20.00</td>
</tr>
<tr>
<td>LARGE</td>
<td>60x30x25 mm (for big reconstructions)</td>
<td>C32TL30.00</td>
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AVAILABLE WITH OPEN OR CLOSED WEAVE
On request, the BONE MODEL and a COPY OF THE MESH in resin can also be produced, by means of 3D printing.

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Titanium meshes are used in GBR procedures to favour the regeneration of bone volumes. They are usually associated with the usage of chips of autologous or heterologous bone or synthetic biomaterial. The assessment of the type of defect and suitable surgical skills in managing soft tissues are fundamental elements in achieving successful surgery.

**INSERTION SEQUENCE**

1. Anaesthesia and preparation of the surgical field.
2. Incision of tissues.
3. Raising of the flap and skeletisation.
4. Preparation of the recipient bed and possible harvesting of autologous bone.
5. The sterilised mesh is taken out of the package.
6. Use of biomaterial.
7. Placement of the mesh and insertion of the cortical screws.
8. Covering of the mesh with resorbable membrane (recommended procedure).

**REMOVAL SEQUENCE**

1. Anaesthesia and preparation of the surgical field.
2. Incision of tissues and uncovering of the mesh.
3. Removal of fixation screws using the dedicated drivers.
4. Removal of the bone regeneration mesh.
5. Checking of the state of regeneration.
6. Possibly, implant techniques chosen by the surgeon.
7. Suture of the surgical flaps.
Immediate uploading of the DICOM file of the patient’s tomography.

For more INFO write to: btk3d@btk.dental
DIGITAL DENTISTRY
CUSTOM-MADE MEDICAL DEVICES

TITANIUM MESHES FOR BONE REGENERATION.

The digital future of guided bone regeneration.

**BTK 3D-MESH** is an innovative customized titanium mesh.

Based on the patient’s CBCT, the mesh is designed using CAD-CAM technology and can be used for small and medium sized bone reconstructions. 3D-MESH is printed in TITANIUM using SELECTIVE LASER MELTING technology, thereby guaranteeing top quality, performance and precision.

100% DIGITAL, 100% CUSTOMIZED.

MEETS THE EXPECTATIONS OF CLINICIANS AND PATIENTS.

CONTROLLED AND VALIDATED PRODUCTION PROCESS.

STATE OF THE ART PRECISION AND CUSTOMIZATION.

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BIBLIOGRAPHY


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.

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.