Product Catalog
Dental bone and tissue regeneration
botiss biomaterials offers you a unique systematic BTR approach – the complete regenerative biomaterial portfolio for Implantology, Oral and CMF Surgery, and Periodontology at hand.

We all know – no single bone graft or soft tissue biomaterial can suit all medical needs, biological situations, and indications. Factors, such as indication, age, hygiene, biotype, bone height, and treatment plan, require a sophisticated approach with different, coordinated products.

To achieve optimal results, we offer you the botiss regeneration system. It includes all long-term proven biological materials (e.g., bovine, synthetic, allografts, collagen, granules, blocks, membranes, and soft tissue matrices), which can be used in various combinations for each specific indication. All products are manufactured according to the highest quality standards and are strictly biological (i.e., no chemical cross-linking).

Patient’s safety, ease of use and reliable treatment results – these are your and our first priorities. The products of the botiss regeneration system have proven their success in terms of safety, efficacy, and reliability in a multitude of preclinical and clinical studies and, most importantly, in the daily clinical work, with hundreds of thousands of patients worldwide.

We substantially invest in research and education. Unique innovations, such as mucoderm®, maxgraft® bonebuilder, and maxresorb® flexbone, the concept of high-quality learning and education with the botiss academy, and our international bone & tissue days are the results of our partnership with world-renowned academic research institutes, global opinion leaders, and practitioners in their daily clinical environment.

botiss biomaterials is one of the leading companies in the field of dental bone and tissue regeneration. The botiss regeneration system is available in over 100 countries worldwide via a global network of distribution partners and employees, who are committed experts in the field of oral surgery and implantology. botiss is an innovative, clinically oriented biotech company headquartered in Berlin, with R&D and production sites in Germany, Austria, and Great Britain. One focus lies on dental regeneration.

We proudly welcome you to the botiss regeneration system community. We invite you to share your experiences and suggestions with us, which are precious to further improve our products or develop new product concepts.

Dr. Drazen Tadic  Oliver Bielenstein
dt@botiss.com       ob@botiss.com

Development / Production / Distribution

360° – the botiss regeneration system:
Innovation, Safety, Reliability, and Aesthetics
bone substitutes

cerabone®
maxresorb®
maxresorb® inject
collacone® max
maxgraft®
maxgraft® bonering
maxgraft® cortico
maxgraft® bonebuilder

cerabone® is derived from the mineral phase of bovine bone, which shows strong resemblance to the human bone with regard to chemical composition, porosity, and surface structure. The pronounced hydrophilicity of the cerabone® surface supports a fast uptake of blood or saline, thus improving handling. Likewise, its three-dimensional porous network enables a fast penetration and adsorption of blood and serum proteins and serves as a reservoir for proteins and growth factors.

The unique manufacturing process based on high-temperature heating removes all organic and potentially antigenic components, making the material absolutely safe and free of proteins. cerabone® is the leading natural bovine bone grafting material of German origin, as demonstrated by its clinical and scientific success.

Properties
- Natural bovine bone grafting material
- Long-term volumetric stability
- No foreign body or inflammatory reaction
- Rough surface, optimal cell adhesion, and blood absorption
- Interconnective porosity for rapid revascularization
- Safe and sterile
- Easy handling

Indications:
- Implantology
- Periodontology
- Oral and CMF Surgery
- Sinus lift
- Horizontal and vertical augmentation
- Intraosseous defects
- Peri-implant defects
- Extraction sockets
- Furcation defects

cerabone® is an excellent bioceramic, superior hydrophilicity, and blood uptake

SEM: cerabone® macro- and micropores resembling human bone

SEM: cerabone® microporosity; ideal surface roughness for a fast cell attachment

cerabone® excellent bioceramic; superior hydrophilicity, and blood uptake

Histology of cerabone® six months after sinus lift: Optimal integration and bone healing with cerabone®

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maxresorb®
Synthetic biphasic calcium phosphate

maxresorb® is an innovative, safe, reliable, and fully synthetic bone substitute material that is characterized by controlled resorption properties and outstanding handling characteristics.

maxresorb® is composed of 60% hydroxyapatite (HA) and 40% beta-tricalcium phosphate (β-TCP).

The unique synthesis-based production process ensures a completely homogenous distribution of both mineral phases. The peculiar composition of maxresorb® promotes the fast formation of new vital bone, ensuring a long-term mechanical and volume stability. The osteoconductivity of maxresorb® is achieved by a matrix of interconnecting pores (with a size ranging between 200 and 800 μm) and a very high porosity of approx. 80%. The high microporosity and nano-structured surface facilitate the uptake and adsorption of blood, proteins, and stem cells. The macropores are ideal for the ingrowth of osteogenic cells and the bony integration.

Properties
- 100% synthetic and resorbable
- Volume and mechanical graft stability
- 60% HA/40% β-TCP
- Osteoconductive
- Ultra-high interconnected porosity
- Safe, reliable and sterile
- Hydrophilic surface

Indications:
- Implantology, Periodontology and Oral and CMF Surgery
  - Sinus lift
  - Ridge augmentation
  - Intraosseous defects
  - Extraction sockets
  - Osseous defects
  - Furcation defects

Product Specifications
maxresorb® granules
Art.-No.  Particle Size  Content
20005  0.5 – 1.0 mm (S) 1 × 0.5 ml
20010  0.5 – 1.0 mm (S) 1 × 1.0 ml
20105 0.8 – 1.5 mm (L) 1 × 0.5 ml
20120  0.8 – 1.5 mm (L)  1 × 2.0 ml

maxresorb® blocks
Art.-No.  Dimension  Content
21211  20 × 10 × 10 mm 1 × block
21221  20 × 20 × 10 mm 1 × block

maxresorb® inject
Synthetic injectable bone paste

maxresorb® inject is an innovative, injectable bone graft paste, with excellent resorption properties.

The gel-based composite includes active hydroxyapatite and granules (composed of 60% HA and 40% β-TCP). While maxresorb® promotes the fast formation of new vital bone and maintains the mechanical graft stability, maxresorb® inject is gradually replaced by mature new bone. The highly viscous maxresorb® inject paste allows the perfect shaping, molding, fitting, and complete bone bonding to the surrounding bone surface of the defect. maxresorb® inject is a non-hardening synthetic bone paste.

Properties
- Injectable and easy handling
- Non-hardening bone graft paste
- Synthetic, resorbable, and safe
- Viscous and moldable
- Active hydroxyapatite crystals
- 60% HA/40% β-TCP granules
- Osteoconductive
- Ultra-high interconnected porosity

Indications:
- Implantology, Periodontology and Oral and CMF Surgery
  - Sinus lift
  - Intraosseous defects
  - Extraction sockets
  - Osseous defects
  - Furcation defects

Product Specifications
maxresorb® inject
Art.-No.  Unit  Content
22005  1 × syringe 1  × 0.5 ml
22010  1 × syringe  1 × 1.0 ml
22025  1 × syringe 1  × 2.5 ml
maxgraft® is a sterile, high-safety allograft product, derived from human-donor bone, processed by Cells + Tissuebank Austria (C-TBA), a high-quality bone bank, is regulated, audited, and certified by the Austrian Federal Office for Safety in Health Care and fulfills the highest EU safety standards.

For experienced oral and maxillofacial surgeons, allograft bone blocks for block augmentation are the only real alternative to harvesting the patient’s own autologous bone. This helps preventing well-known risks such as donor-site morbidity, infection, post-operative pain, and bone-stability loss.

The biological regeneration capability of maxgraft® allows for excellent clinical outcomes.

**Properties**
- Preserved biomechanical properties
- Sterile – no antigenic effects
- Sterile and temperature-stable for five years
- Osteoconductive properties supporting natural and controlled tissue remodelling

**Indications:**
- Implantology
- Periodontology
- Oral and CMF Surgery

**maxgraft® granules:**
- Socket and ridge preservation
- Intraosseous defects
- Peri-implant defects
- Defects after root resection, apicectomy, and cystectomy

**maxgraft® blocks:**
- A predictable and highly effective alternative to traditional block grafting
- Ridge augmentation

**Product Specifications**

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**maxgraft® cortico-cancellous granules**

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**maxgraft® blocks**

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maxgraft® bonering
Processed allogenic bone ring

The maxgraft® bonering technique
maxgraft® bonering is a prefabricated ring of processed allogenic donor bone, which is placed press-fit into a trephine drill-prepared ring bed. At the same time, an implant is inserted into the ring. The bony integration of both maxgraft® bonering and the implant occurs via the surrounding vital bone.

Ring bed preparation
After the determination of the position of the implant with the planator tip, the ring bed is prepared with the trephine. Subsequently, the planator allows an even paving of the local bone for optimal contact with maxgraft® bonering and, in addition, removes the cortical layer; this ensures an improved graft revascularization.

The height of maxgraft® bonering is adjustable to the defect. The maxgraft® bonering technique enables vertical bone augmentation and direct implant insertion.

Advantages
- Simultaneous implant placement and bone augmentation
- No second surgical procedure
- Significant reduction of treatment time

Indications:
- Implantology
  - Vertical augmentation (in combination with horizontal augmentation)
  - Single tooth gap
  - Edentulous space
  - Sinus lift

Soft tissue management
After covering the graft with a collagen membrane (Jason® membrane), a tension-free suturing of the operation site must be applied to avoid tissue perforation and graft exposure.

The maxgraft® bonering technique enables vertical bone augmentation and direct implant insertion.

One-stage bone augmentation and implant placement

Smoothing
Sharp edges should be smoothed to avoid soft tissue perforation and to support wound healing. Moreover, maxgraft® bonering should be covered with a slowly resorbable bone regeneration material (e.g., cerabone®) to fill the residual defect volume and to avoid potential adaption resorption of the graft.

Soft tissue management
After covering the graft with a collagen membrane (Jason® membrane), a tension-free suturing of the operation site must be applied to avoid tissue perforation and graft exposure.

maxgraft® bonering surgical kit
With this surgical kit, botiss biomaterials provides all necessary instruments to apply the maxgraft® bonering technique. The kit includes two convenient sizes of trephines, which precisely match the maxgraft® bonering diameters. The planators allow the paving of the local bone to create a congruent and fresh contact surface of the implant area. The diamond disc and the diamond tulip can be used to shape maxgraft® bonering for an excellent adjustment to the local bone and for an improved soft tissue healing. Altogether, these instruments allow optimal preconditions for the bony ingrowth of maxgraft® bonering. All instruments are made of high-quality surgical steel.

Product Specifications
maxgraft® bonering 3.3 (height 10 mm, recommended for implant diameters from 3.3 - 3.6 mm)
- Art.-No. 33160 cancellous ring, Ø 6 mm 1 x
- Art.-No. 33170 cancellous ring, Ø 7 mm 1 x

maxgraft® bonering 4.1 (height 10 mm, recommended for implant diameters from 4.1 mm)
- Art.-No. 33000 maxgraft® bonering surgical kit 1 set
- Art.-No. 33010 bonering fix 1 x

maxgraft® bonering is suitable for vertical and horizontal augmentation and promotes new bone formation, therefore simplifying the surgical treatment.

www.botiss-bonering.com
maxgraft® cortico

Shell technique with allogenic bone plates

maxgraft® cortico is a prefabricated plate made of processed allogenic bone. Similarly to the autogenous bone, it can be used for the shell technique.

maxgraft® cortico was developed to avoid the donor-site morbidity and to prevent the time-consuming harvesting and splitting of autologous cortico-cancellous bone blocks.

Preparation of the augmentation area

The proper size of the plate is estimated after the elevation of the mucosal flap or preoperatively using a digital planning software. Using a diamond disc, the plate is then cut extraorally.

Fixation and adaption

The plate is positioned within a certain distance by predrilling through the plate and local bone. fixation is performed with osteosynthesis screws to create a fixed compartment. To prevent the perforation of the soft tissues, the sharp edges has to be removed, e.g., by using a diamond ball.

Indications:
- Vertical augmentation
- Horizontal augmentation
- Complex three-dimensional augmentations
- Single tooth gaps
- Fenestration defects

Augmentation of a frontal mandibular defect

Natural bone regeneration

To facilitate osteogenesis, allogenic particles can be used to fill the defect. The preserved human collagen provides an excellent osteoconductivity and enables a complete remodelling. Mixing with autologous chips or particulated PRF matrices can support the ossification.

Properties
- Osteoconductive
- Natural and controlled remodelling
- Conserved biomechanical parameters
- Sterile, no antigenic effect
- Five-year shelf life

Indications:
- Vertical augmentation
- Horizontal augmentation
- Complex three-dimensional augmentations
- Single tooth gaps
- Fenestration defects

Fixation and adaption

Advantages
- Established augmentation technique with new material
- Significant reduction of operation time
- No donor-site morbidity
- No limitation of augmentation material

Filling and wound closure

The space between local bone and cortical plate can be filled with a variety of different particulated bone grafting materials. Then, the augmentation area needs to be covered with a barrier membrane (Jason® membrane, colprotect® membrane) and a tension-free and saliva-proof closure must be applied.

Product Specifications

maxgraft® cortico

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cortico trimmer

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<td>34000</td>
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maxgraft® bonebuilder
Customized allogenic bone block

maxgraft® bonebuilder is a customized allogenic bone transplant, which is individually adjusted to the bone defect. With maxgraft® bonebuilder, harvesting of autologous bone and manual adjustment of the obtained transplant is no longer required for the treatment of extensive defects. Donor site morbidity, operation time and costs can be significantly reduced.

The maxgraft® bonebuilder technology
In-house planning
botiss virtually designs the patient customized allogenic bone transplant based on the CT/DVT-scan of the bone defect. The design of the bone transplant undergoes a final inspection by the clinical user and is, by individual order, released for production. The botiss partner Cells-Tissuebank Austria receives a *.stl milling file and the patient matched allogenic bone transplant is produced under cleanroom conditions. The resulting bone block is ready for insertion into the defect with only minor adjustments.

Indications
- Extensive bone defects
- Atrophic maxilla/mandible
- Horizontal/vertical augmentation

Advantages
- Individualized allogenic bone transplant
- Significantly reduced operation time
- Improved wound healing

After placement, the maxgraft® bonebuilder block is fixed with osteosynthesis screws. Residual defect volume should be filled with bone regeneration material and the augmentation site should be covered with a collagen membrane.

The strong capillary action of the three-dimensional, porous trabecular bone network enables fast and efficient penetration of nutrients and blood, resulting in excellent handling, as well as reliable and predictable outcomes.

Based on this model, botiss designs a virtual block, which matches the surface structure of the defect and allows stable implant insertion after augmentation.

The customized maxgraft® bonebuilder block allows precise horizontal and vertical reconstruction of the atrophic ridge.

1. Upload of CT/DVT-data on www.botiss-bonebuilder.com
After registration, CT/DVT-data of the patient can be uploaded on the botiss server. All radiological data have to single-frame data images. The only data type suitable for 3D planning is DICOM (*.dcm).

2. Block design
botiss designers create a three-dimensional model of the radiological images and design a virtual bone transplant in consultation with the clinical user.

3. Design quality check
The clinical user receives a 3D PDF file containing the virtually constructed maxgraft® bonebuilder block and has to confirm its design.

4. Individual order
The production of the block starts after the clinical user fills in the patient based order form for the bone block to the attention of botiss biomaterials.

5. Production of the individual bone block
At C-TBA the *.stl data of the design is imported into a milling machine and a block of maximally 23 x 13 x 13 mm is produced.

Product Specifications
maxgraft® bonebuilder

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<td>PMIa.2</td>
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www.botiss-bonebuilder.com
mucoderm®
Jason® fleece
collacone®
collprotect® membrane
Jason® membrane
permamem®
titan pin set

mucoderm® is a natural type I/III collagen matrix derived from porcine dermis that undergoes a multi-stage purification process, which removes all potential immunogens. The remaining matrix is a membrane that consists of collagen and elastin.

mucoderm® is integrated and remodelled into the patient’s own soft tissue through a natural enzymatic process. The natural collagen structure of mucoderm, which is the result of a multi-step purification/cleaning process, serves as scaffold for soft tissue cells and blood vessels. During the healing, the mucoderm matrix is vascularized and integrated into the surrounding tissue. mucoderm® represents a suitable and safe alternative to the autologous soft tissue graft for a variety of indications.

Properties
- Rapid revascularization and integration
- Soft tissue replacement without palatal autograft harvesting
- Complete remodeling into patient’s own tissue
- Resorption time of approx. six to nine months
- Can be easily applied and fixed
- Can be cut into procedure-specific shape

Indications:
- Implantology, Periodontology and Oral and CMF Surgery
- Treatment of gingival recessions
- Soft tissue grafting in combination with GBR/GTR
- Broadening of attached gingiva
- Closure of extraction sockets
- Thickening of the periimplant soft tissue

Product Specifications

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*Also available as bundle (Art.-No. 257110): mucoderm® soft tissue punch and collacone® max

mucoderm® is a 3D-stable soft tissue (collagen) graft that replaces soft tissue without the need for palatal autograft harvesting. It remodels completely into the patient’s own tissue and is resorbed within six to nine months. It can be easily applied and cut into a shape suitable for the procedure.

Immunohistological analysis three months after implantation of mucoderm® in a mouse-model shows excellent vascularization.

Easy handling properties of mucoderm® after rehydration with sterile saline.
collacone®
Collagen hemostat
(Cone)

collacone® is a wet-stable and moldable cone made of natural collagen. As a completely resorbable and hemostatic wound coverage, it is intended for application in fresh extraction sockets in the daily clinical practice.

Indications:
- Closure of extraction sites
- Biopsy sites
- Minor oral wounds
- Control and stop of bleeding in extraction sockets or biopsy sites
- Internal sinus lift

Properties
- Resorption within two to four weeks
- Stabilization of blood clot and efficient local hemostasis
- Maintains integrity in the presence of blood and during application
- Wound protection
- Three-dimensional matrix for tissue ingrowth
- Controlled wound healing process
- Native collagen cone
- Promoting hemostasis

Product Specifications

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Jason® fleece
Collagen hemostat
(Sponge)

Jason® fleece is a pH-neutral, wet-stable fleece made of native collagen with a highly efficient hemostatic effect. The well-known effect of collagen is induced by the adhesion of platelets to the collagen fibrils.

Indications:
- Closure of extraction sites
- Biopsy sites
- Minor oral wounds
- Control and stop of bleeding in extraction sockets or biopsy sites
- Internal sinus lift

Properties
- Highly effective hemostat
- Fast resorption by enzymatic degradation
- Easy application
- Maintains integrity in the presence of blood and during application
- Wound protection and support of wound healing

Product Specifications

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collprotect® membrane
Native collagen membrane

Properties
- Preserved native collagen structure
- Natural wound healing and blood clot support
- Easy application and handling in dry or wet status
- Rough and porous structure for cell guidance
- Natural collagen structure

Indications:
- Implantology,
- Periodontology and Oral and CMF Surgery
- Horizontal augmentation
- Socket and ridge preservation
- Sinus lift
- Protection and covering of Schneiderian membrane
- Fenestration and dehiscence defects
- Intraosseous defects (1 to 3 walls)
- Furcation defects (class I and II)

Product Specifications
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<td>603040</td>
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Histology of Jason® membrane 24 weeks after implantation in a rat model shows perfect integration without inflammatory reaction

Jason® membrane
Native pericardium GBR/GTR membrane

Properties
- Prolonged barrier function
- Low-thickness native structure
- Easy manipulation, can be applied dry or wet
- No stickiness after rehydration
- Fast vascularization due to three-dimensional structure
- Multi-directional strength and tear resistance
- Excellent surface adaptation and reduced risk of swelling

Indications:
- Implantology,
- Periodontology and Oral and CMF Surgery
- Horizontal and vertical augmentation
- Ridge reconstruction
- Socket and ridge preservation
- Sinus lift
- Protection and covering of Schneiderian membrane
- Fenestration and dehiscence defects
- Intraosseous defects (1 to 3 walls)
- Furcation defects (class I and II)

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**permamem®**
High-density PTFE barrier membrane

permamem® is an exceptionally thin, non-resorbable, biologically inert and biocompatible membrane made of 100% high-density polytetrafluoroethylene (PTFE). permamem® maintains its structural integrity both during the initial implantation and over time. Due to its small pore size the membrane acts as an efficient barrier against bacterial and cellular penetration, and may therefore be left in place for open healing in certain indications.

Open healing with permamem® in socket or ridge preservation enables maintenance of the soft tissue architecture and contours since no primary wound closure is required. Due to the missing flap closure, the mucogingival line will not be displaced and the attached/keratinized gingiva will be preserved.

Properties
- 100% synthetic PTFE barrier membrane
- Ultra-thin (~0.08 mm)
- Impervious to bacteria due to dense structure
- Easily removable due to minimal tissue ingrowth into the surface structure
- No need for primary soft tissue closure (indication-dependent)
- Easy recovery thanks to blue color
- Rounded edges for minimal tissue trauma
- Easy fixation with sutures or pins
- Either side may be placed towards the defect site

**Indications:**
- Implantology, Periodontology and Oral and CMF Surgery
- Socket and ridge preservation (open healing)
- Horizontal/vertical ridge augmentation
- Fenestration and dehiscence defects
- Intraosseous defects (1 to 3 walls)
- Furcation defects (classes I and II)

**Product Specifications permamem®**

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Size</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>801150</td>
<td>15 x 20 mm</td>
<td>1 membrane</td>
</tr>
<tr>
<td>802200</td>
<td>20 x 30 mm</td>
<td>1 membrane</td>
</tr>
<tr>
<td>800040</td>
<td>30 x 40 mm</td>
<td>1 membrane</td>
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The indication matrix supports you in choosing the most suitable treatment concept through an intelligent querying in the navigation bar on the left-hand side. The more specified the clinical situation, the more precise is the selection of treatment concepts displayed in the right-hand section.

The matrix contains > 150 clinical cases and videos as well as handling tips and recommendations of internationally recognized clinical experts.

**Share your case!**

INDICATION-MATRIX.COM
During the application of modern GBR and GTR techniques, barrier membranes are indispensable to achieve reliable results.

By fixation of the barrier membrane to the local bone, the application of the particulate bone regeneration material as well as the coverage of the augmentation site by the barrier membrane can be significantly simplified.

Using the one-piece applicator, titan pins can easily be taken up from the dispenser and applied to the fixation site. Distortion of the working-end during handling cannot occur.

Properties
- Utterly comfortable grip-ergonomics for easy uptake of titan pins
- Functional design
- Safe and easy opening by single-hand control
- Suitable for resorbable and non-resorbable membranes

Product Specifications

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>440000</td>
<td>titan pin set</td>
</tr>
<tr>
<td>1 × applicator</td>
<td></td>
</tr>
<tr>
<td>1 × dispenser for 15 titan pins</td>
<td></td>
</tr>
<tr>
<td>1 × titan pins 3 mm (10 pieces)</td>
<td></td>
</tr>
<tr>
<td>440310</td>
<td>titan pins 3 mm (10 pieces)</td>
</tr>
</tbody>
</table>

All parts are delivered unsterile and need to be sterilized before use.
## Bone substitutes

<table>
<thead>
<tr>
<th>cerabone® granules</th>
<th>Art.-No.</th>
<th>Particle Size</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>15700</td>
<td>0.5 – 1.0 mm</td>
<td>1 x 0.5 ml</td>
<td></td>
</tr>
<tr>
<td>15710</td>
<td>0.5 – 1.0 mm</td>
<td>1 x 1.0 ml</td>
<td></td>
</tr>
<tr>
<td>15800</td>
<td>1.0 – 2.0 mm</td>
<td>1 x 0.5 ml</td>
<td></td>
</tr>
<tr>
<td>15810</td>
<td>1.0 – 2.0 mm</td>
<td>1 x 1.0 ml</td>
<td></td>
</tr>
<tr>
<td>15900</td>
<td>1.0 – 2.0 mm</td>
<td>1 x 2.0 ml</td>
<td></td>
</tr>
<tr>
<td>15910</td>
<td>1.0 – 2.0 mm</td>
<td>1 x 2.0 ml</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>cereBone® Block</th>
<th>Art.-No.</th>
<th>Dimension</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1120</td>
<td>30 x 20 x 10 mm</td>
<td>1 x block</td>
<td></td>
</tr>
</tbody>
</table>

## Collagen & barriers

### Jason® fleece
- **Art.-No.** 800412
- **Size** 20 x 20 mm
- **Content** 12 Pieces

### collagen®
- **Art.-No.** S11112
- **Shape** 15 x 10 mm
- **Dimension** Height 15 mm, width on top ~15 mm, bottom width ~7 mm
- **Content** 12 pieces (single sterile units)

### mucoderm®
- **Art.-No.** 701520
- **Shape** 15 x 20 mm
- **Dimension** 1 matrix
- **Content** 1 matrix

### permax®
- **Art.-No.** 330500
- **Shape** 1 x mucoderm® soft tissue punch and collagen® max
- **Content** 1 x mucoderm® punch Ø 10 mm

## Instruments

### Jason® membrane
- **Art.-No.** 681020
- **Size** 15 x 20 mm
- **Content** 1 membrane

### permax®
- **Art.-No.** 682030
- **Size** 20 x 30 mm
- **Content** 1 membrane

### permax®
- **Art.-No.** 683040
- **Size** 30 x 40 mm
- **Content** 1 membrane

### titan pin set
- **Art.-No.** 440000
- **Shape** Titan pin set
- **Dimension** Titan pin set 3 mm
- **Content** 10 pieces

### bonering fix
- **Art.-No.** 330110
- **Shape** bonering fix
- **Dimension** 1 x

### maxgraft® bonering surgical kit
- **Art.-No.** 330300
- **Shape** cortico trimmer
- **Content** 1 x cortico trimmer

### cortico trimming
- **Art.-No.** 340300
- **Shape** cortical strut
- **Content** 1 x cortical strut
Innovation.
Regeneration.
Aesthetics.