biologics
product catalog
BioHorizons commitment to science, innovation and service has helped us become one of the fastest-growing companies in the dental industry.

**highest quality standards**
BioHorizons partners with national tissue banks who take extraordinary measures to ensure the recovery and processing of all tissue meets or exceeds the guidelines set forth by the AATB and FDA.

**clinically proven**
BioHorizons is committed to developing evidence-based and scientifically proven products. With research published in more than 300 publications, our comprehensive product portfolio is backed by proven results for a wide range of hard and soft tissue applications.

**novel solutions**
BioHorizons has a history of identifying and developing game-changing products to enhance practices' clinical outcomes. This commitment started in 2000 when BioHorizons introduced AlloDerm™, the first soft tissue augmentation product in the dental industry.

**partner for success**
BioHorizons understands the importance of providing excellent service. Our global network of professional representatives and our highly trained customer care support team are well-equipped to meet the needs of patients and clinicians.
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Biologic device
IntraSpin® System

FDA-cleared medical device for the production of L-PRF®
The IntraSpin System is intended to be used for the safe and rapid preparation of autologous Leukocyte- and Platelet-Rich Fibrin® (L-PRF) from a small sample of blood taken chairside.

- Offers high-quality German-engineering and manufacturing with a set of parameters for the proper consistencies of L-PRF
- Features an optimized protocol that was scientifically developed and clinically proven from more than 290 studies over 15+ years to ensure predictable results
- Utilizes FDA-cleared components that have been optimized to ensure proper material biocompatibility and clinical performance
- Includes a quality guarantee

“L-PRF, a human living tissue that challenges the paradigm of osseointegration and tissue regeneration. What we thought impossible yesterday, could be routine tomorrow with L-PRF and natural guided regeneration therapy.”
Nelson Pinto, DDS

Ordering information

<table>
<thead>
<tr>
<th>IntraSpin® System</th>
<th>Tissue Regeneration Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS110Z</td>
<td>BDTRKZ</td>
</tr>
<tr>
<td>IntraSpin® Centrifuge, 110 Volts</td>
<td>Tissue Regeneration Kit</td>
</tr>
</tbody>
</table>

Includes the following:
- CTRZ Xpression® Box
- BSTFZ Surgical Tissue Forceps
- BSCSZ Surgical Curved Scissors
- BDBCZ Dual Biomaterial Carrier Spatula
- BDBPZ Dual Biomaterial Packer
- BRSSMTZ Round Stainless-steel Bowl
- BSSSMTZ Rectangular Stainless-steel Bowl

Blood Collection System

<table>
<thead>
<tr>
<th>Blood Collection System</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAT</td>
</tr>
<tr>
<td>Medical Tourniquet, latex-free</td>
</tr>
<tr>
<td>BRACK</td>
</tr>
<tr>
<td>Test Tube Rack</td>
</tr>
</tbody>
</table>

A simple three-step processing protocol includes drawing blood, spinning blood and forming a thin, compressed layer of L-PRF in the Xpression® box.
Bone grafting options
MinerOss® Family of Allografts

MinerOss Blend
In 2004, BioHorizons pioneered the combination of mineralized cortical and cancellous chips. Today, MinerOss Blend is one of the most popular allograft blends in the USA. MinerOss Blend forms an osteoconductive scaffold for volume enhancement and effective site development to place dental implants.

Same trusted product, many reasons why
MinerOss Blend is clinically proven for a wide range of hard tissue applications in over 40 publications. It is processed utilizing the Medtronic proprietary aseptic processing which has processed over 6.5M allografts since 1986.

• Mineralized cancellous chips with maximum surface area and early osteoconductive properties
• Mineralized cortical chips for space maintenance and long-term stability
• 50:50 ratio of cortical and cancellous bone chips

Applications include:
• Extraction site grafting
• Periodontal defects
• Lateral and vertical ridge augmentation
• Sinus grafting
• Peri-implant defects
• Composite grafting

Ordering information
Particle size range: 600-1250μm

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<tr>
<td>MO-C1.0DOM</td>
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<tr>
<td>MO-C2.5DOM</td>
<td>2.5cc Vial</td>
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</tbody>
</table>
Bone grafting options
MinerOss® Family of Allografts

MinerOss Putty
MinerOss Putty is uniquely a 100% allograft that includes a powerful combination of mineralized cortical/cancellous chips with demineralized cortical fibers for optimal implant site development. MinerOss Putty is designed for enhanced regenerative capacity.

- Over 80% bone graft weight\(^2\)
- 50:50 ratio of mineralized cortical/cancellous chips and demineralized cortical bone\(^2\)
- All-natural carrier with no extraneous fillers or binding agents
- Moldable and cohesive handling characteristics
- Time-saving delivery method with reliable clinical outcomes

MinerOss Putty case images courtesy of Steve Wallace, DDS, MHS

Applications include:\(^3\)
- Ridge and sinus augmentation
- Peri-implant defects
- Extraction socket grafting
- Periodontal defects

MinerOss Putty has changed my perception of putty bone products. The handling characteristics are truly unique. I was impressed in how the putty easily molded and maintained its shape with such a high mineralized content. These features make it a good option for sockets, ridge augmentation and sinus graft procedures."
Craig Misch, DDS, MDS

Ordering information
100% pure allograft

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<th>Product Code</th>
<th>Volume</th>
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<td>MIN-PT1.0</td>
<td>1.0cc Syringe</td>
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<tr>
<td>MIN-PT2.5</td>
<td>2.5cc Syringe</td>
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<tr>
<td>MIN-PT5.0</td>
<td>5.0cc Syringe</td>
</tr>
</tbody>
</table>

shop online at store.biohorizons.com
MinerOss Cancellous
MinerOss Cancellous is a mineralized allograft cancellous bone particle. The osteoconductive properties along with the fast remodeling time allow for rapid revascularization and predictable results.\(^4\) MinerOss Cancellous provides ideal handling characteristics for regeneration procedures of all sizes.

MinerOss Cortical
The strength of a cortical allograft is ideal in procedures where structural integrity and long lasting stability is needed for proper regeneration.\(^4\) MinerOss Cortical is available in 300 to 1,000 microns to allow for easy handling and fast hydration.

Applications include:\(^3\)
- Ridge and sinus augmentation
- Socket grafting
- Periodontal defects
- Grafting for implant placement

“MinerOss Cancellous is an outstanding choice for particulate grafting. Its exceptional handling and predictable results have proven to be an asset in my practice.”
Bach Le, DDS, MD, FICD, FACD

MinerOss Cancellous case images courtesy of Bach Le, DDS, MD, FICD, FACD

Ordering information

MinerOss Cancellous
Particle size range: 300-1000μm

<table>
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<th>Code</th>
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<td>MIN-CAN0.5</td>
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<td>MIN-CAN1.0</td>
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<tr>
<td>MIN-CAN2.5</td>
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MinerOss Cortical
Particle size range: 300-1000μm

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<tr>
<td>MIN-COR1.0</td>
<td>1.0cc Vial</td>
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<tr>
<td>MIN-COR2.5</td>
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MinerOss Cancellous Syringe
Particle size range: 300-600μm

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<th>Code</th>
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<tr>
<td>MIN-CANSYR0.5</td>
<td>0.5cc Syringe</td>
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</tbody>
</table>

shop online at store.biohorizons.com
Bone grafting options
MinerOss® Family of Allografts

MinerOss Block Allograft
MinerOss Block Allograft restores bone volume and provides an alternative to harvesting an autogenous block graft from the patient, therefore eliminating the need for a second surgical procedure.

Applications include:• Bone remodeling
• Block grafting procedures
• Bony defects

Bone grafting options
Grafton® DBM

Grafton DBM incorporates potent DBF (demineralized bone fibers) technology to ensure superior osteoconductivity. With more than 20 years of clinical history, Grafton DBM gives you the ability to preserve bone height and width. Proven in published, peer-reviewed clinical studies, Grafton DBM in multiple forms gives clinicians options for bone grafting applications.

• Indicated as a bone void filler, bone graft extender and bone graft substitute
• Available in multiple forms to give the desired handling characteristics for multiple clinical indications

Ordering information
Grafton DBM Matrix Plugs
GR-MTX-1 8mm x 8mm x 10mm Plugs

Grafton DBM Putty in a syringe
GR-SYR.25-1 0.25cc Syringe

Grafton DBM Putty in a vial
GR-PT.5 0.5cc Vial
GR-PT1 1.0cc Vial
GR-PT2.5 2.5cc Vial

Grafton DBM Flex Sheet
GR-FL1.5 1.5cm x 1.5cm Sheet

Applications include:
• Extraction socket grafting
• Ridge and sinus augmentation
• Cystic defects
• Craniofacial augmentation
• Filling of periodontal defects

Grafton DBM in multiple forms gives clinicians options for bone grafting applications.
Bone grafting options
Genate™ Allografts

Genate Blend
Genate Blend is intended to generate an osteoconductive scaffold for volume enhancement while facilitating penetration of blood vessels for revascularization of the site. The Blend offers a regenerative balance of approximately 70% cortical and 30% cancellous allograft chips similar to the natural structure of human bone.

- Mineralized cancellous chips with maximum surface area and early osteoconductive properties
- Mineralized cortical chips for space maintenance and long-term stability

Applications include:
- Extraction site grafting
- Periodontal defects
- Lateral and vertical ridge augmentation
- Sinus grafting
- Peri-implant defects
- Composite grafting

Ordering information
Particle size range: 300-1000μm

<table>
<thead>
<tr>
<th>MIN-C0.5</th>
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<tbody>
<tr>
<td>MIN-C1.0</td>
<td>1.0cc Vial</td>
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<tr>
<td>MIN-C2.5</td>
<td>2.5cc Vial</td>
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</table>
Bone grafting options
MinerOss® Family of Xenografts

MinerOss X
MinerOss X is an anorganic, bovine bone mineral matrix that is physically and chemically comparable to the mineral structure of human bone. The formation and ingrowth of new bone at the implantation site of MinerOss X is favored because of its trabecular architecture, interconnecting macro- and micropores and its natural consistency.

Applications include:
- Ridge and sinus augmentation
- Extraction socket grafting
- Infrabony periodontal defects
- Periodontal defects
- Peri-implant defects
- Dehiscence defects

Comparative testing

The micropores ensure the high capillary action and, consequently, the fast liquid uptake.9

The interconnected macropores allow blood cells and proteins to enter into particles, enabling effective osseointegration.9

Ordering information

MinerOss X Cancellous
Particle size ranges from 250-1000μm

<table>
<thead>
<tr>
<th>Product</th>
<th>Volume</th>
<th>Packaging</th>
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<tr>
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MinerOss X Cancellous
Particle size ranges from 1000-2000μm

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<th>Product</th>
<th>Volume</th>
<th>Packaging</th>
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<td>0.25g/0.9cc</td>
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<td>0.5g/1.7cc</td>
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<td>MINX-CAN1.0GRL</td>
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<tr>
<td>MINX-CAN2.0GRL</td>
<td>2.0g/6.8cc</td>
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MinerOss X Cortical
Particle size ranges from 500-1000μm

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<tr>
<th>Product</th>
<th>Volume</th>
<th>Packaging</th>
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<tbody>
<tr>
<td>MINX-COR0.25GR</td>
<td>0.25g/0.4cc</td>
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<td>MINX-COR0.5GR</td>
<td>0.5g/0.8cc</td>
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<tr>
<td>MINX-COR1.0GR</td>
<td>1.0g/1.6cc</td>
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</tr>
<tr>
<td>MINX-COR2.0GR</td>
<td>2.0g/3.2cc</td>
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MinerOss X Collagen
95% anorganic cancellous bone mineral and 5% highly purified Type I collagen

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<tr>
<th>Product</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>MINX-COLLAGEN-SM</td>
<td>6mm x 7mm x 8mm</td>
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<tr>
<td>MINX-COLLAGEN-MED</td>
<td>8mm x 9mm x 9mm</td>
</tr>
<tr>
<td>MINX-COLLAGEN-LG</td>
<td>10mm x 11mm x 12mm</td>
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MinerOss X Syringe
Particle size ranges from 250-1000μm

<table>
<thead>
<tr>
<th>Product</th>
<th>Volume</th>
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<tbody>
<tr>
<td>MINX-SYR0.25</td>
<td>0.25cc</td>
</tr>
<tr>
<td>MINX-SYR0.5</td>
<td>0.5cc</td>
</tr>
</tbody>
</table>
Bone grafting options
MinerOss® Family of Xenografts

MinerOss X Plugs
MinerOss X Plugs are designed to simplify and streamline the grafting process with two size options conveniently shaped for a variety of graft sites. The plugs are composed of 80% bovine cancellous particulate and 20% bovine Type I collagen.

Optimal clinical handling
• Easily trim and shape to fit the morphology of a socket defect
• No rehydration needed before implantation

Dependable delivery
• Particulate embedded in the collagen may prevent particulate migration
• Bovine Type I Achilles collagen allows for blood absorption and delivery to the particulate

High particulate content
The cancellous bone matrix has macro- and microscopic structures that support the formation and ingrowth of new bone at the implantation site.

Applications include:
• Ridge and sinus augmentation
• Extraction socket grafting
• Infrabony periodontal defects
• Periodontal defects
• Peri-implant defects

Ordering information

<table>
<thead>
<tr>
<th>Particular</th>
<th>Description</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>MINX-SCPLUG</td>
<td>Straight (pack of 5)</td>
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<tr>
<td>MINX-TCPLUG</td>
<td>Tapered (pack of 5)</td>
<td>9mm x 15mm</td>
</tr>
</tbody>
</table>
Bone grafting options
MinerOss® Family of Xenografts

MinerOss XP
Highly porous anorganic porcine bone mineral matrix designed for hard tissue grafting applications. Increased porosity allows for optimal osteoconductivity and adequate space for new bone deposition.

Applications include:
- Ridge and sinus augmentation
- Extraction socket grafting
- Infrabony periodontal defects
- Periodontal defects
- Peri-implant defects
- Dehiscence defects

Ordering information

MinerOss XP Cancellous
Particle size ranges from 250-1000μm

<table>
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<tr>
<th>Product Code</th>
<th>Vial Size</th>
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<tr>
<td>MINXP-CAN1.0SM</td>
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<tr>
<td>MINXP-CAN2.0SM</td>
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<tr>
<td>MINXP-CAN4.0SM</td>
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MinerOss XP Cancellous
Particle size ranges from 1000-2000μm

<table>
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<tr>
<th>Product Code</th>
<th>Vial Size</th>
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<td>MINXP-CAN2.0LG</td>
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MinerOss XP Syringe
Particle size ranges from 250-1000μm

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<th>Product Code</th>
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<tr>
<td>MINXP-SYR0.5</td>
<td>0.5cc Syringe</td>
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</table>

Of the compared materials, MinerOss XP provides more intra- and interparticle space for osteoconduction and the formation of new bone.2

SEM images of MinerOss XP illustrate a structure similar to a natural bone mineral. It is highly porous to provide more space for new bone deposition and a rough surface, which facilitates cell adhesion and spread for bone in-growth.3
### Bone grafting options

#### Bone grafting applications

<table>
<thead>
<tr>
<th>Product</th>
<th>Periodontal defects</th>
<th>4-wall extraction sockets</th>
<th>3-wall extraction sockets</th>
<th>Sinus augmentation</th>
<th>Ridge augmentation</th>
<th>Grafting for implant placement</th>
<th>Peri-implant defects</th>
<th>Dehiscence defects</th>
<th>Block grafting</th>
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</thead>
<tbody>
<tr>
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<td>yes</td>
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</table>

**NOTE:** Please refer to the official Instructions for Use for description, indications, contraindications, warnings, precautions and other important information.
AlloDerm SELECT™ RTM processing maintains tissue integrity and supports tissue regeneration by allowing rapid revascularization, fibroblast repopulation and a minimal inflammatory response — ultimately being transformed into host tissue for a strong repair.\(^*\)\(^{10,11}\) AlloDerm SELECT™ RTM is available with a thickness range of 1.6mm ± 0.4mm.

- Use of AlloDerm SELECT™ RTM results in reduced postoperative bleeding and swelling as reported in a case series\(^{12,1}\)
- No recognizable difference between AlloDerm SELECT™ RTM and connective tissue in terms of recession reduction, clinical attachment gain and reduction in probing depth at six months\(^{13,4}\)
- Most published ADM in implant dentistry\(^{14}\)
- Sterile and ready to use

AlloDerm SELECT™ RTM applications include:\(^3\)
- Root coverage
- Gingival augmentation
- Soft tissue ridge augmentation
- Soft tissue augmentation around implants

### Ordering information

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<th>Item Code</th>
<th>Description</th>
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<td>RTU-0204</td>
<td>AlloDerm SELECT™ RTM 2cm x 4cm</td>
</tr>
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</table>

Regenerative Tissue Matrix

Complex acellular heterogenous scaffold and blood vessel architecture; prehydrated and ready to use

---

Before use, physicians should review all risk information, which can be found in the AlloDerm SELECT™ RTM Instructions for Use. * Correlation of these results, based on animal studies, to results in humans has not been established.† Based on questionnaire given to 228 patients at 1 week post-treatment covering 331 procedures who received an AlloDerm SELECT™ RTM (n=89 procedures) or autogenous soft tissue (n=242 procedures) graft for gingival augmentation. ‡ Results obtained from 30 gingival recessions in 9 patients treated with AlloDerm SELECT™ RTM (15 recessions) or autogenous soft tissue (15 recessions).
Soft tissue options
AlloDerm SELECT GBR™ RTM

AlloDerm SELECT GBR™ Regenerative Tissue Matrix utilizes that same proprietary processing that maintains tissue integrity and supports tissue regeneration by allowing rapid revascularization, fibroblast repopulation and a minimal inflammatory response. AlloDerm SELECT GBR™ RTM is used as an effective barrier membrane that transitions into the patient’s own tissue (Thickness range of 1.0 ± 0.2mm).

- Benefits soft tissue quality and serves as a barrier membrane
- Enhances esthetics while also providing support to the bone regeneration process
- Demonstrated alternative to bioabsorbable membranes

AlloDerm SELECT GBR™ RTM applications include:
- Graft protection and containment
- Flap extender to achieve primary closure

Ordering information

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Soft tissue applications

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<tr>
<th></th>
<th>Root coverage</th>
<th>Gingival augmentation</th>
<th>Soft tissue augmentation around implants</th>
<th>Soft tissue ridge augmentation</th>
<th>Graft protection &amp; containment</th>
<th>Flap extender to achieve primary closure</th>
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</table>

Soft tissue options

Root coverage
Gingival augmentation
Soft tissue augmentation around implants
Soft tissue ridge augmentation
Graft protection & containment
Flap extender to achieve primary closure

AlloDerm SELECT GBR™ RTM can be stored at room temperature.
Soft tissue options
AlloDerm SELECT™ Regenerative Tissue Matrix (RTM) &
AlloDerm SELECT GBR™ RTM

INDICATIONS AND IMPORTANT SAFETY INFORMATION

INDICATIONS
ALLODERM SELECT™ Regenerative Tissue Matrix (ALLODERM SELECT™ RTM refers to both ALLODERM SELECT™ RTM and ALLODERM SELECT GBR™ RTM products) is intended to be used for repair or replacement of damaged or inadequate integumental tissue or for other homologous uses of human integument including gingival. This product is intended for one patient on a single occasion. ALLODERM SELECT™ RTM is not indicated for use as a dural substitute or intended for use in veterinary applications.

IMPORTANT SAFETY INFORMATION

CONTRAINDICATIONS
ALLODERM SELECT™ RTM should not be used in patients with a known sensitivity to any of the antibiotics listed on the package and/or Polysorbate 20.

WARNINGS
Processing of the tissue, laboratory testing, and careful donor screening minimize the risk of the donor tissue transmitting disease to the recipient patient. As with any processed donor tissue, ALLODERM SELECT™ RTM is not guaranteed to be free of all pathogens. No long-term studies have been conducted to evaluate the carcinogenic or mutagenic potential or reproductive impact of the clinical application of ALLODERM SELECT™ RTM.

DO NOT re-sterilize ALLODERM SELECT™ RTM. DO NOT reuse once the tissue graft has been removed from the packaging and/or is in contact with a patient. Discard all open and unused portions of the product in accordance with standard medical practice and institutional protocols for disposal of human tissue. Once a package or container seal has been compromised, the tissue shall be either transplanted, if appropriate, or otherwise discarded. DO NOT use if the foil pouch is opened or damaged. DO NOT use if the seal is broken or compromised. DO NOT use if the temperature monitoring device does not display "OK". DO NOT use after the expiration date noted on the label. Transfer ALLODERM SELECT™ RTM from the foil pouch aseptically. DO NOT place the foil pouch in the sterile field.

PRECAUTIONS
Poor general medical condition or any pathology that would limit the blood supply and compromise healing should be considered when selecting patients for implanting ALLODERM SELECT™ RTM as such conditions may compromise successful clinical outcome. Whenever clinical circumstances require implantation in a site that is contaminated or infected, appropriate local and/or systemic anti-infective measures should be taken.

ALLODERM SELECT™ RTM has a distinct basement membrane (upper) and dermal surface (lower). When applied as an implant, it is recommended that the dermal side be placed against the most vascular tissue. Soak the tissue for a minimum of 2 minutes using a sterile basin and room temperature sterile saline or room temperature sterile lactated Ringer's solution to cover the tissue. If any hair is visible, remove using aseptic technique before implantation.

ALLODERM SELECT™ RTM should be hydrated and moist when the package is opened. DO NOT use if this product is dry. Use of this product is limited to specific health professionals (e.g., physicians, dentists, and/or podiatrists). Certain considerations should be made to reduce the risk of adverse events when performing surgical procedures using a tissue graft. Please see the Instructions for Use (IFU) for more information on patient/product selection and surgical procedures involving tissue implantation before using ALLODERM SELECT™ RTM.

ADVERSE EVENTS
Potential adverse events which may result from surgical procedures associated with the implant of a tissue graft include, but are not limited to the following: wound or systemic infection; dehiscence; hypersensitive, allergic or other immune response; and sloughing or failure of the graft.

ALLODERM SELECT™ RTM is available by prescription only.

For more information, please see the Instructions for Use (IFU) for ALLODERM SELECT™ RTM and ALLODERM SELECT GBR™ RTM or call 1.800.678.1605 for a copy of the IFU.

To report an adverse reaction, please call BioHorizons Customer Care at 1.888.246.8338.
Resorbable wound dressings
BioPlug & BioStrip

BioPlug and BioStrip are wound dressings made from bovine collagen. They are designed to absorb blood or fluids and to protect the site for optimal regeneration.

• Fully resorbed in 10 to 14 days
• Quantity of 10 units per box
• Packaged sterile

Applications Include:
• Extraction sockets
• Denture sores
• Oral ulcers
• Periodontal surgical wounds
• Burns
• Surgical wounds
• Traumatic wounds

Ordering Information

BioPlug
BIOPUG Pack of 10

BioStrip
BIOSTRI Pack of 10

BioPlug
1cm x 2cm
BioPlug size reference

BioStrip
2.5cm x 7.5cm
BioStrip size reference
Membranes

Striate+ is the next generation of collagen membranes expertly processed to remove all traces of DNA and immunogenic contaminants to create a favorable environment for rapid regeneration of high-quality bone and soft tissue.

- Non-crosslinked, acellular Type I collagen does not induce abnormal inflammatory response
- Bi-layer membrane readily conforms to bone surfaces
- Dense barrier layer prevents infiltration of gingival cells while allowing passage of bioactive molecules and proteins
- Bioactive chamber allows early integration of bone-forming cells and provides a favorable environment for osteogenesis

Applications Include:
- Immediate extraction sites
- Delayed extractions sites
- Graft containment of bone defects
- Guided bone regeneration
- Guided tissue regeneration
- Periodontal defects

Ordering Information

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<td>OCG-304</td>
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</table>

shop online at store.biohorizons.com
Membranes
Mem-Lok® Amnio

Mem-Lok Amnio is a dehydrated, multilayered amniotic membrane that acts as a protective covering and provides simplified handling, superior flexibility and numerous other clinical benefits. This elastic and lightweight membrane acts as a scaffold and possesses unique non-immunological properties.  

- Amnion and chorion layers act as protective barriers to facilitate ultimate care
- Multiple preserved growth factors and cytokines are naturally present within the membrane
- Minimally manipulated to preserve the antibacterial properties

Applications include:
- Socket preservation
- Sinus perforations
- Ridge augmentation
- Periodontal regeneration
- Gingival recession
- Endodontic applications

Ordering information

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<th>Item</th>
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<td>AMN-ML1520</td>
<td>15mm x 20mm</td>
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<tr>
<td>AMN-ML2030</td>
<td>20mm x 30mm</td>
</tr>
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</table>
Mem-Lok® Resorbable Collagen Membrane (RCM)

Mem-Lok RCM is engineered from highly purified, Type I bovine collagen to provide a predictable resorption period and ensure optimal bone regeneration. Clinicians can be confident that Mem-Lok RCM will serve as an effective barrier membrane for bone regeneration. Mem-Lok RCM supports graft stabilization and bone growth by providing soft tissue support and space maintenance over a predictable time frame. Because of its *in-vivo* stability, it enables easy handling in demanding indications.

- Predictable resorption time period of 26 to 38 weeks\(^{22}\)
- Macromolecular pore size permeability that permits the exchange of essential nutrients during healing
- Adapts easily to various bony defects\(^{23}\)
- Membrane only 0.3mm thick, yet rigid\(^{23}\)
- Easy placement since membrane is not side-specific\(^{23}\)
- Cell-occlusive for supporting bone regeneration

**Applications include:**
- Extraction sockets
- Ridge reconstruction
- Bone augmentation around implants
- Bony defects
- Periodontal defects

**Ordering information**

<table>
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<th>Membrane Code</th>
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<tr>
<td>RCM-ML3040</td>
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**Suture pull-out strength**

![Graph showing suture pull-out strength](image)

Suture pull-out strength of the collagen membrane-dense fibers provide high mechanical strength.\(^{22}\)
Mem-Lok Pliable is a strong, conformable collagen barrier membrane. Manufactured from highly purified, intact porcine collagen and minimally cross-linked, it is biocompatible and predictably resorbable. It drapes easily for graft site contours and can easily be repositioned. Mem-Lok Pliable offers flexibility, strength and is easy to handle.

- Cell-occlusive\textsuperscript{2}
- Predictable resorption time period of 12 to 16 weeks\textsuperscript{3}
- High suture pull-out strength\textsuperscript{3}
- Easily repositionable for precise placement\textsuperscript{3}
- Can be placed dry or hydrated\textsuperscript{3}

Applications include:\textsuperscript{3}
- Extraction sites
- Ridge reconstruction
- Dehiscence defects
- Periodontal defects

Ordering information

<table>
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<tr>
<th>Mem-Lok Pliable</th>
<th>Bio-Gide®</th>
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<tr>
<td>PBLE-ML1520</td>
<td>Not side-specific</td>
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<tr>
<td>15mm x 20mm</td>
<td>Dense, uniform single layer</td>
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<td>PBLE-ML2030</td>
<td>Fibrous side</td>
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<td>20mm x 30mm</td>
<td>Lower density</td>
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<td>PBLE-ML3040</td>
<td>Smooth side</td>
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<tr>
<td>30mm x 40mm</td>
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</table>

In preclinical testing, suture pullout strength was three times higher than a comparable collagen membrane.\textsuperscript{3}
Membranes
Mem-Lok® Pericardium

Mem-Lok Pericardium is a long-lasting, conformable barrier membrane that drapes easily for graft site contours. It has excellent strength and stability for optimal graft site protection.

• Tear-resistant, can be sutured
• 5-year shelf life
• Can be stored at room temperature

Applications include:
• Extraction sites
• Periodontal defects
• Block graft coverage
• Ridge reconstruction

“*The hydrated Mem-Lok Pericardium had excellent handling and adaptability to the graft site.*”
Guy Rosenstiel, DMD

Ordering information

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<td>PERI-ML3040INT</td>
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Mem-Lok Pericardium case images courtesy of Guy Rosenstiel, DMD

Mem-Lok RCM, Mem-Lok Pliable and Mem-Lok Pericardium size references
Membranes
Cytoplast™ Titanium-Reinforced Dense PTFE Membranes

The traditional frame design, which incorporates delicate and strategically placed titanium "struts," has more than 25 years of clinical history and successful use in guided bone regeneration. Cytoplast Ti-250 membranes provide a wide range of coverage solutions for cases involving extraction sites, bony defects and ridge augmentation (250 microns thick).

- Non-resorbable material allows the clinician to dictate healing time
- Passive fit with no memory retention
- Lightweight framework is easy to trim and is compliant with overlying soft tissues

Ordering information & applications

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<th>Description</th>
<th>Dimensions</th>
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<tr>
<td>OG-TI250AS-2</td>
<td>Ti-250 Anterior Singles (pack of 2)</td>
<td>14mm x 24mm</td>
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<td>OG-TI250ATC-2</td>
<td>Ti-250 Anterior Trans Crestal (pack of 2)</td>
<td>24mm x 38mm</td>
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<td>OG-TI250BL-2</td>
<td>Ti-250 Buccal (pack of 2)</td>
<td>17mm x 25mm</td>
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<td>OG-TI250PD-2</td>
<td>Ti-250 Posterior Distal (pack of 2)</td>
<td>38mm x 38mm</td>
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<td>OG-TI250PS-2</td>
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<td>OG-TI250XLK-2</td>
<td>Ti-250 XLK (pack of 2)</td>
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Membranes
Cytoplast™ Titanium-Reinforced Dense PTFE Membranes

Cytoplast Titanium-Reinforced Dense PTFE Membranes

- Ti-250 Anterior Narrow
  - 12mm x 24mm

- Ti-250 Anterior Singles
  - 14mm x 24mm

- Ti-250 Anterior Trans Crestal
  - 24mm x 38mm

- Ti-250 Buccal
  - 17mm x 25mm

- Ti-250 Posterior Distal
  - 38mm x 38mm

- Ti-250 Posterior Large
  - 25mm x 30mm

- Ti-250 Posterior Singles
  - 20mm x 25mm

- Ti-250 Posterior Singles T2
  - 25mm x 36mm

- Ti-250 Posterior Large
  - 25mm x 30mm

- Ti-250 Posterior Trans Crestal
  - 38mm x 38mm

- Ti-250 Posterior Distal
  - 38mm x 38mm

- Ti-250 Posterior Trans Crestal
  - 38mm x 38mm

- Ti-250 XL
  - 30mm x 40mm

- Ti-250 XLK
  - 30mm x 40mm

Shop online at store.biohorizons.com
Membranes
Cytoplast™ Dense PTFE Membranes

The micro-textured TXT-200 & TXT-200 Singles provide a textured surface to increase the area available for cellular attachment during dental bone grafting procedures (200 microns thick).

- Patented Regentex™ surface for increased stability
- Impervious to bacteria (membrane pore size less than 0.3 microns)
- Designed to withstand exposure for easy, nonsurgical removal
- For socket grafting and grafting where primary closure is not possible

<table>
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Cytoplast Dense PTFE Membrane size reference

[Image of Cytoplast Dense PTFE Membrane size reference]
## Membranes

### Membrane applications

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<thead>
<tr>
<th></th>
<th>Striate+</th>
<th>Mem-Lok Amnio</th>
<th>Mem-Lok RCM</th>
<th>Mem-Lok Pliable</th>
<th>Mem-Lok Pericardium</th>
<th>Cytoplast TXT-200 &amp; TXT-200 Singles</th>
<th>Cytoplast Ti-250</th>
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<td>Bone augmentation</td>
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<td>Guided bone regeneration</td>
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Recommended sutures
Cytoplast™ PTFE sutures

• Manufactured using 100% non-resorbable, medical grade PTFE for a biologically inert suture that prevents bacterial wicking into surgical sites
• 300 series stainless-steel needle provides a substantial increase in needle strength as well as initial and sustained needle sharpness
• Soft monofilament ensures little to no package memory for excellent handling, secure knots and increased patient comfort

For dental implant and bone grafting procedures.
Designed to have longer and geometrically finer precision-cutting edges.

For dental implant and bone grafting procedures where a smaller reverse cutting needle is desired.
Designed to have longer and geometrically finer precision-cutting edges.

Most popular needle in dentistry and most popular suture size.

Most popular size for dental implant and bone-grafting procedures.
Recommended sutures

Hu-Friedy® sutures

- 300 series stainless steel, the ideal alloy for dental suture needles, ensures a strong sharp needle pass after pass
- Manufactured from a stronger alloy composition, increasing ductile strength — if the needle does bend, it is less likely to break when reshaping
- Finer point geometry for smooth tissue penetration, requiring up to 20% less force* than other suture needles
- Laser-drilled needles for reduced tissue disruption

Dr. Edward P. Allen’s recommended sutures

- Perma Sharp® Suture
  - 6-0 Chromic Gut 18”, C-1 Premium. Finer point geometry for smoother penetration.
  - HF-PSN1816C

- Perma Sharp Suture
  - 7-0 Polypropylene 18”, C-1 Premium. This suture is used to secure coronally positioned flap / pouch over the graft.
  - HF-PSN8696P

- Perma Sharp Suture
  - 6-0 Polypropylene 18”, C-17. Finer point geometry for smoother penetration.
  - HF-PSN8384P

For use in oral plastic surgery procedures

- Perma Sharp Suture
  - 6-0 Polypropylene 18”, C-1 Premium. Finer point geometry for smoother penetration.
  - HF-PSN8697P

Dr. Carl E. Misch’s recommended sutures

- Perma Sharp Suture
  - 3-0 Violet PGA Suture. 27”, C-9. Finer point geometry for smoother penetration.
  - HF-PSN460V

- Perma Sharp Suture
  - 4-0 Violet PGA Suture. 18”, C-6. Finer point geometry for smoother penetration.
  - HF-PSN392V

For use in implant and bone graft related procedures

- Perma Sharp Suture
  - 3-0 Violet PGA Suture. 27”, C-9. Finer point geometry for smoother penetration.
  - HF-PSN460V

For use in oral plastic surgery procedures

- Perma Sharp Suture
  - 4-0 Violet PGA Suture. 18”, C-6. Finer point geometry for smoother penetration.
  - HF-PSN392V

*Data on file with Hu-Friedy
Developed by Dr. Edward P. Allen, this comprehensive kit provides precision microsurgical instruments specifically designed for invasive soft tissue grafting procedures.

**Instruments**

**Allen Oral Plastic Surgery Kit**

- **HF-IMN4160** 16 Instrument Infinity Series Cassette
- **HF-IM1000** Sig. Series Hinged Instrument Clip (2-pack)
- **HF-NHM-5026R** Micro Castroviejo, Straight, Diamond Dusted
- **HF-S5080** Goldman-Fox Perma Sharp® Scissors, Straight
- **HF-PPAELPX** Allen Periosteal Elevator, Posterior, Black Line
- **HF-PPAELAX** Allen Periosteal Elevator, Anterior, Black Line
- **HF-SYG7/89E2** Younger-Good 7/8, #9 Handle, EverEdge® (2 per kit)
- **HF-MCUPE** Immunity Steel Cup, Modified (2 per kit)
- **HF-KO12KPO3R9** Allen Modified Orban Knife 1/2, Round, EverEdge®
- **HF-KO12KPO3AR** Allen Modified Orban Knife 1/2, Round, #6 Satin Steel® Handle
- **HF-SYRCW** Cook-Waite Anesthetic Aspirating Syringe, 1.8ml
- **HF-10-130-05** #5 Scalpel Handle, Round, Straight
- **HF-PCP116** Color-Coded Probe 3-6-8-11
- **HF-SP20** Corn Suture Pliers
- **HF-8-905DD** Precision Dressing Forceps, Diamond Dusted
- **HF-MIR5/3** #5 Front Surface Mouth Mirror (3 pack)
- **HF-MH6** #6 Satin Steel® Mirror Handle (2 per kit)
- **HF-PPAELX** Allen Periosteal Elevator, Black Line
- **HF-ALLENCARD** Allen Membrane Measurement Card
- **HF-KO12KP3R49** Allen Arrowhead Knife, EverEdge®

**Available individually**
Developed by Drs. Nico Geurs and Justin Moody, this comprehensive kit provides essential instrumentation for standard hard tissue grafting applications.

**Instruments**

**Basic Hard Tissue Grafting Kit**

- **HF-CSEUWES6** Euwe Bone Scoop/Plugger, #6 Satin Steel® Handle
- **HF-CL856** #85 Lucas DE Surgical Curette, #6 Satin Steel® Handle
- **HF-MIR5HD** #5 High Definition Cone Socket Mirror, Single-sided (1 per kit)
- **HF-P24GSP6** #24G Periosteal, #6 Satin Steel® Handle
- **HF-NH5038** Crile-Wood Perma Sharp® Needle Holder
- **HF-PCP126** Color-Coded SE Probe 3-6-9-12, #6 Satin Steel® Handle
- **HF-CM116** #11 Miller Bone Curette, #6 Satin Steel® Handle
- **HF-IM8121C4** Gray Signa-Stat, 4 clips
- **HF-CRM** Retractor University of Minnesota
- **HF-MH6** #6 Satin Steel® Mirror Handle
- **HF-DP17** #17 Dressing Pliers
- **HF-F1XS** #1 Atraumair Extraction Forceps
- **HF-S18** Iris Scissors, Curved
- **HF-10-130-05** #5 Scalpel Handle, Round Straight

shop online at store.biohorizons.com
Dr. Edward P. Allen, a recognized expert in periodontal surgery, and Shanon Johnston, CDA, designed this complete suture removal kit. Microsurgery has recently been introduced into oral plastic surgery. Among the benefits are refined instruments and materials, which allow for finer, more precise surgical procedures that can result in predictable outcomes.

**Titanium Tack Driver System**

The titanium tack driver system is used for the fixation of barrier membranes and soft tissue in the oral cavity. The system was designed with a durable, long-lasting driver handle with a strong, tack-retaining feature to reduce lost tacks.

- Sterilization tray
- Autoclavable tack cassette (preloaded with 21 titanium tacks)
- Dressing pliers, utility pick-up
- Delivery handle

**AutoTac® System Kit**

The AutoTac System Kit is used to secure membranes with the push of a button. The efficient “no-touch” tack system with a convenient one-handed delivery mechanism effectively fixes membranes.

**Reorder items**

- **400-248** Autoclavable Tack Cassette (tacks not included)
- **400-260** Titanium Tacks with Cassette (pack of 21)
- **400-240** Titanium Tack Vial (pack of 5)
- **HF-DPU17** Dressing Pliers, Utility Pick-up

**Crestal-Lift-Control Basic Kit**

The Crestal-Lift-Control system supports safe and easy access for internal sinus lift procedures.

- 2.0 pilot drill for initial engagement of bone
- 3.3/3.6/3.8/4.1mm diameter side-cutting crestal drills
- 3mm to 9mm depth stops for accurate access
- Graft spreader to assist with sinus membrane elevation and placement of graft material
Instruments

Bone Fixation Screw Kit

Indicated for use in fixation of cortical onlay grafts and meshes and for membrane tenting used in Guided Bone Regeneration. The kit is compact and conveniently organized for the efficient retrieval of instruments and screws. It includes cortical bone drills for latch-type and friction-grip handpieces.

**Bone Fixation Screw Kit includes:**

- Flexible micro mesh
- Screwdriver body
- Comprehensive instrument set
- Autoclavable screw block with lid
- 24 screws:
  - (6) 1.4mm x 8.0mm micro screws
  - (6) 1.4mm x 10.0mm micro screws
  - (6) 2.0mm x 10.0mm mini screws
  - (6) 2.0mm x 12.0mm mini screws

**Bone Fixation Screw Kit reorder items**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<tbody>
<tr>
<td>BSV-14X4</td>
<td>1.4mm x 4.0mm micro screw (pack of 6)</td>
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<tr>
<td>BSV-14X6</td>
<td>1.4mm x 6.0mm micro screw (pack of 6)</td>
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<tr>
<td>BSV-14X8</td>
<td>1.4mm x 8.0mm micro screw (pack of 6)</td>
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<td>BSV-14X10</td>
<td>1.4mm x 10.0mm micro screw (pack of 6)</td>
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<tr>
<td>BSV-14X12</td>
<td>1.4mm x 12.0mm micro screw (pack of 6)</td>
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<tr>
<td>BSV-2X8</td>
<td>2.0mm x 8.0mm mini screw (pack of 6)</td>
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<td>BSV-2X10</td>
<td>2.0mm x 10.0mm mini screw (pack of 6)</td>
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<td>BSV-2X12</td>
<td>2.0mm x 12.0mm mini screw (pack of 6)</td>
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<tr>
<td>BSV-2X14</td>
<td>2.0mm x 14.0mm mini screw (pack of 6)</td>
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<tr>
<td>BS-MMESH</td>
<td>Micro mesh for guided bone regeneration</td>
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<tr>
<td></td>
<td>24.0mm x 35.0mm, 0.1mm thick</td>
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<tr>
<td>BS-MCSSFT-HND</td>
<td>Micro screwdriver shaft for screwdriver body</td>
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<tr>
<td>BS-MCSSFT-ANG</td>
<td>Micro screwdriver shaft for latch-type handpieces</td>
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<tr>
<td>BS-1MCDB-ANG</td>
<td>1.0mm micro drill bit for latch-type handpieces</td>
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<tr>
<td>BS-MNSSFT-HND</td>
<td>Mini screwdriver shaft for screwdriver body</td>
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<tr>
<td>BS-MNSSFT-ANG</td>
<td>Mini screwdriver shaft for latch-type handpieces</td>
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<tr>
<td>BS-16MMDB-ANG</td>
<td>1.6mm mini drill bit for latch-type handpieces</td>
</tr>
<tr>
<td>BS-16X54.8MDB-STR</td>
<td>1.6 x 54.8mm mini drill bit for friction-grip handpieces (Ø2.35mm)</td>
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<tr>
<td>BS-16X67MDB-STR</td>
<td>1.6 x 67.0mm mini drill bit for friction-grip handpieces (Ø2.35mm)</td>
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<tr>
<td>BS-SDRIVER</td>
<td>Screwdriver body</td>
</tr>
</tbody>
</table>
References


2. Data on file with the manufacturer.

3. Reference manufacturer’s Instructions for Use (IFU) package insert.


7. Grafton DBM forms and Grafton Plus DBM Paste are FDA 510(k) cleared for use as a bone void filler, bone graft extender and bone graft substitute.

8. FDA 510(k) K051188 and K051195 Indications for Use statements and summaries of safety and effectiveness for use as a bone void filler, bone graft extender and bone graft substitute.


21. R41197b. Ashraf H, Font K, Powell C, Schurr M. Antimicrobial Activity of an Amnion-Chorion Membrane to Oral Microbes. *International Journal of Dentistry*. 2019; p. 7. (Amnion-chorion membrane (ACM) was proven to be as bactericidal as paper discs inoculated with tetracycline at its minimum bactericidal concentration. The ACM bactericidal property may be beneficial in the early wound healing process.)


BioHorizons Lifetime Warranty on Implants and Prosthetics for Clinicians: All BioHorizons implants and prosthetic components include a Lifetime Warranty. BioHorizons implant or prosthetic components will be replaced if removal of that product is due to failure (excluding normal wear to overdenture attachments).

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(2) Instruments: The BioHorizons manufactured instrument warranty extends for a period of one (1) year from the date of initial invoice. Instruments include drivers, implant site dilators and BioHorizons tools used in the placement or restoration of BioHorizons implants.

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