

Biomaterials

Product catalog

biohorizons camlog group

BIOHORIZONS®

BIOHORIZONS®



A global leader for biologic-based solutions

Committed to science, innovation and service, BioHorizons has become one of the fastest-growing companies in the dental industry.

Highest quality standards

BioHorizons partners with national tissue banks that 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 more than 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

IntraSpin® System

IS110Z	IntraSpin® Centrifuge, 110 Volts



Tissue Regeneration Kit

BDTRKZ	Tissue Regeneration Kit

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

BAT	Medical Tourniquet, latex-free
BRACK	Test Tube Rack
BCN21G	Safety Blood Collection Needle with Pre-attached Holder, 21G, Pack of 25

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 more than 40 publications. It is processed utilizing the Medtronic proprietary aseptic process which has provided over 6.5 million allografts since 1986.

- Mineralized cancellous chips with maximum surface area and early osteoconductive properties[1]
- Mineralized cortical chips for space maintenance and long-term stability[1]
- 50:50 ratio of cortical and cancellous bone chips[2]

Applications[3]

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



MinerOss Blend

MO-C0.5DOM	0.5cc Vial
MO-C1.0DOM	1.0cc Vial
MO-C2.5DOM	2.5cc Vial

Particle size range: 600-1250µm

Bone grafting options

MinerOss® family of allografts

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 in which 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.

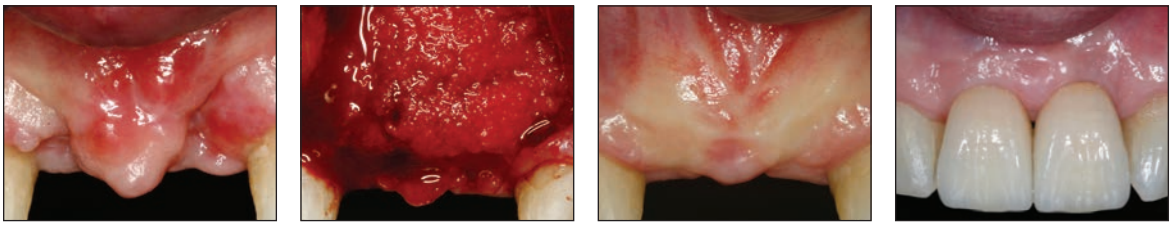


Applications[3]

- 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

MinerOss Cancellous

MIN-CAN0.5	0.5cc Vial
MIN-CAN1.0	1.0cc Vial
MIN-CAN2.5	2.5cc Vial

Particle size range: 300-1000µm

MinerOss Cortical

MIN-COR0.5	0.5cc Vial
MIN-COR1.0	1.0cc Vial
MIN-COR2.5	2.5cc Vial

Particle size range: 300-1000µm

MinerOss Cancellous Syringe

MIN-CANSYR0.25	0.25cc Syringe
MIN-CANSYR0.5	0.5cc Syringe

Particle size range: 300-600µm

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

Applications[3]

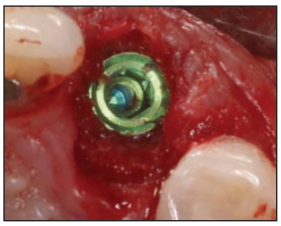
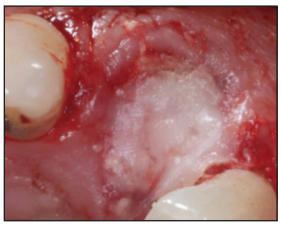
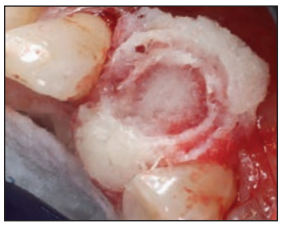
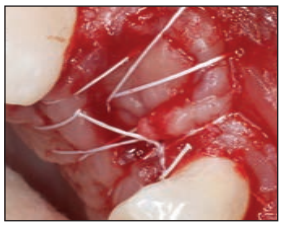
- Ridge and sinus augmentation
- Peri-implant defects
- Extraction socket grafting
- Periodontal defects



MinerOss Putty

MIN-PT0.5	0.5cc Syringe
MIN-PT1.0	1.0cc Syringe
MIN-PT2.5	2.5cc Syringe
MIN-PT5.0	5.0cc Syringe

100% pure allograft

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

> *"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

Bone grafting options

MinerOss® family of allografts

MinerOss Flex

MinerOss Flex is a thin, demineralized allograft cortical sheet that is rigid when dry and flexible when hydrated. The structure allows for controlled handling while maintaining bone contour, with the healing mechanism of osteoconductive and osteoinductive remodeling.

- Structural stability and flexible contour laminar bone structure allow for stability and screw retention while conforming to the bone surface.
- Osteoconductive remodeling from rigid mineralized cortical bone allows for scaffolding during bone regeneration.
- Demineralization for osteoinductivity is capable of inducing bone formation, verified by post-sterilization in-vivo lot testing.[2]

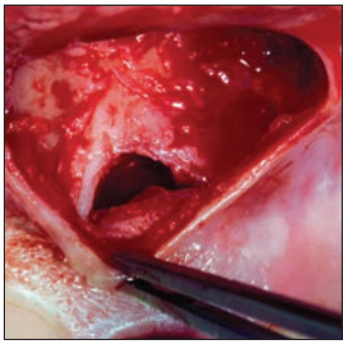
Applications[3]

- Periodontal defects
- Graft coverage
- Extraction sockets
- Ridge augmentation
- Sinus augmentation

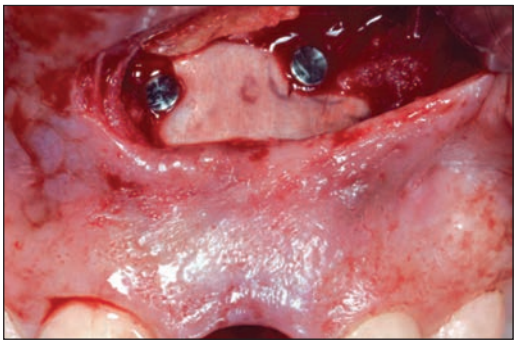


MinerOss Flex

MIN-F1010	10mm x 10mm
MIN-F1017	10mm x 17mm
MIN-F1515	15mm x 15mm



Vestibular access incision connected to the socket orifice via a subperiosteal tunnel.[5]



Bone shield stabilized to the apical bone using membrane tacks.[5]

Bone grafting options

MinerOss® family of allografts

MinerOss Block

MinerOss Block restores bone volume[6] and provides an alternative to harvesting an autogenous block graft from the patient, eliminating the need for a second surgical procedure.



Applications[3]

- Bone remodeling
- Block grafting procedures
- Bony defects

MinerOss Block

MO-BLH10	15mm x 10mm x 10mm
MO-BLH15	15mm x 10mm x 15mm

Bone grafting options

Grafton® DBM

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 provides the ability to preserve bone height and width.[7] Proven in published, peer-reviewed clinical studies, Grafton DBM in multiple forms gives clinicians options for bone grafting applications.[8]

- Indicated as a bone void filler, bone graft extender and bone graft substitute[9]
- Available in multiple forms to give the desired handling characteristics for multiple clinical indications

Grafton DBM Matrix Plugs

GR-MTX-1DOM	8mm x 8mm x 10mm Plugs

Grafton DBM Putty in a syringe

GR-SYR.25-1DOM	0.25cc Syringe

Grafton DBM Putty in a vial

GR-PT.5DOM	0.5cc Vial
GR-PT1DOM	1.0cc Vial
GR-PT2.5DOM	2.5cc Vial

Grafton DBM Flex Sheet

GR-FL1.5DOM	1.5cm x 1.5cm Sheet



Matrix Plugs

Applications[3]

- Extraction socket grafting
- Ridge and sinus augmentation
- Cystic defects
- Craniofacial augmentation
- Filling of periodontal defects

Bone grafting options

Prolifica™

Allogenic growth factors

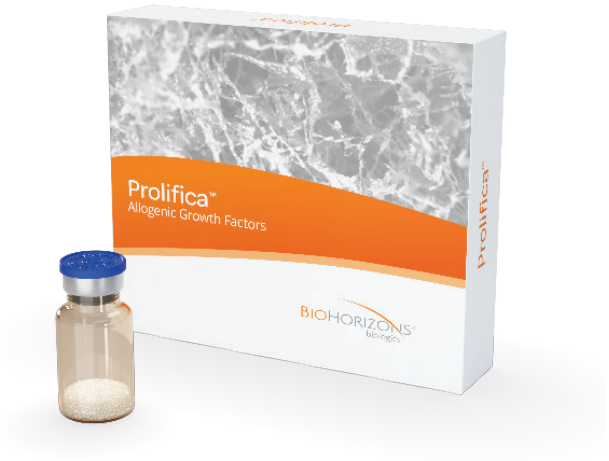
Prolifica is a naturally occurring blend of allogenic growth factors, stabilized by native human collagen and delivered in their intrinsic structure, concentration and composition. Processed to preserve the natural biphasic release of proteins, this advanced allograft supports bone healing and regeneration across a range of clinical applications.

Prolifica retains a minimum of 16 unique proteins that are known to support different aspects of cell growth, division and the complex biological processes involved in bone healing and tissue regeneration.[3, 10, 11, 12]

Prolifica delivers an initial surge of proteins and growth factors to support the initiation of the healing cascade, followed by a prolonged, sustained release for continued regenerative support.[10]

Applications[3]

- Standalone bone grafting procedures
- Bone grafting procedures in combination with autologous bone or other forms of allograft bone



Prolifica

PGF-0.5	0.5cc Vial
PGF-1.0	1.0cc Vial
PGF-2.5	2.5cc Vial

Collagen-stabilized allogenic proteins detected in Prolifica[10]

Protein	Osteogenesis/ Osteoinduction	Angiogenesis	Chemotaxis	Cell Proliferation
BMP-2[11]	✓	✓	✓	-
BMP-4[11]	✓	✓	✓	✓
BMP-6[12]	✓	✓	-	-
BMP-7[11]	✓	✓	✓	✓
BMP-9[12]	✓	✓	✓	✓
TGF-β1[11]	✓	-	✓	✓
IGF-1[11]	✓	✓	✓	✓
IGF-2[12]	✓	✓	✓	✓
PDGF-BB[11]	-	✓	✓	✓
VEGF[11]	✓	✓	✓	-
IL-1 α[11]	✓	✓	✓	✓
IL-1β[11]	✓	✓	✓	✓
IL-6[12]	✓	-	-	-
TNF-α[11]	✓	-	✓	✓
IFN-γ[12]	-	-	✓	✓
FGF-1[11]	✓	✓	-	-

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.[4] 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[4]
- Mineralized cortical chips for space maintenance and long-term stability[4]

Genate Min/Demin

Genate Min/Demin Cortical Bone is a 70/30 blend of mineralized and demineralized cortical allograft bone. It provides a space-maintaining osteoconductive scaffold with the added benefit of osteoinductive potential for volume maintenance while facilitating penetration of blood vessels for revascularization of the site.

- 70% mineralized cortical and 30% demineralized cortical allograft bone
- Demineralized cortical chips introduce osteoinductive potential to the site
- Mineralized cortical chips for space maintenance and stability

Applications[3]

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



Genate Blend

MIN-C0.5	0.5cc Vial
MIN-C1.0	1.0cc Vial
MIN-C2.5	2.5cc Vial

Particle size range: 300-1000µm

Genate Min/Demin

GEN-MD0.25	0.25cc Vial
GEN-MD0.5	0.5cc Vial
GEN-MD1.0	1.0cc Vial
GEN-MD2.5	2.5cc Vial

Particle size range: 300-1000µm

Bone grafting options

MinerOss® family of xenografts

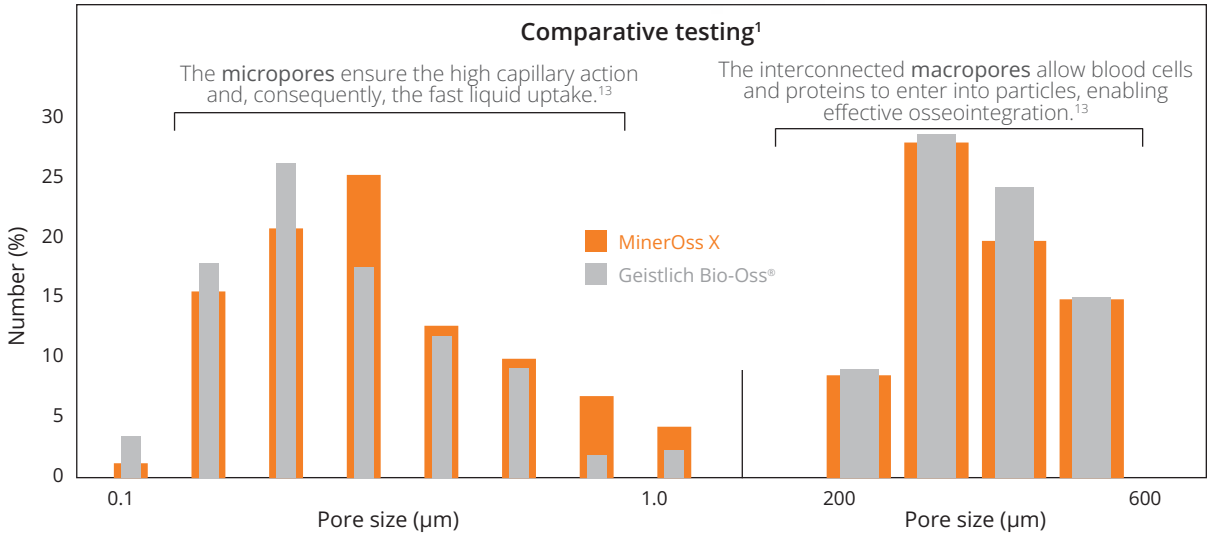
MinerOss X

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[3]

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





MinerOss X Cancellous

MINX-CAN0.25GR	0.25g/0.6cc
MINX-CAN0.5GR	0.5g/1.2cc
MINX-CAN1.0GR	1.0g/2.4cc
MINX-CAN2.0GR	2.0g/4.7cc

Particle size ranges from 250-1000µm

MinerOss X Cancellous

MINX-CAN0.5GRL	0.5g/1.7cc
MINX-CAN2.0GRL	2.0g/6.8cc

Particle size ranges from 1000-2000µm

MinerOss X Syringe

MINX-SYR0.25	0.25cc
MINX-SYR0.5	0.5cc

Particle size ranges from 250-1000µm

MinerOss X Collagen

MINX-COLLAGEN-SM	6mm x 7mm x 8mm
MINX-COLLAGEN-MED	8mm x 9mm x 9mm
MINX-COLLAGEN-LG	10mm x 11mm x 12mm

95% anorganic cancellous bone mineral and 5% highly purified Type I collagen

MinerOss X Cortical

MINX-COR0.25GR	0.25g/0.4cc
MINX-COR0.5GR	0.5g/0.8cc
MINX-COR1.0GR	1.0g/1.6cc
MINX-COR2.0GR	2.0g/3.2cc

Particle size ranges from 500-1000µm

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[3]

- Ridge and sinus augmentation
- Extraction socket grafting
- Infrabony periodontal defects
- Periodontal defects
- Peri-implant defects

MinerOss X Plugs

MINX-SCPLUG	Straight (pack of 5)	10mm x 20mm
MINX-TCPLUG	Tapered (pack of 5)	9mm x 15mm

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[3]

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

MinerOss XP Cancellous

MINXP-CAN0.5SM	0.5cc Vial
MINXP-CAN1.0SM	1.0cc Vial
MINXP-CAN2.0SM	2.0cc Vial
MINXP-CAN4.0SM	4.0cc Vial

Particle size ranges from 250-1000µm

MinerOss XP Cancellous

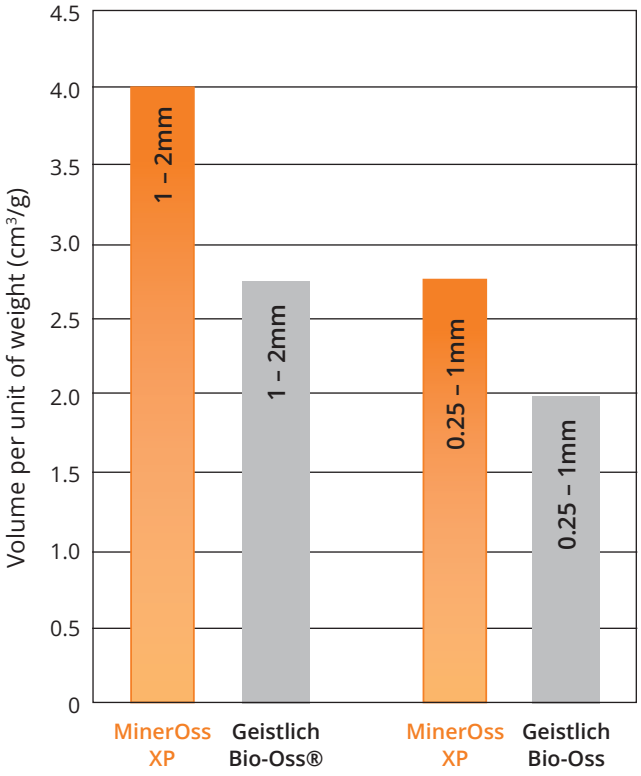
MINXP-CAN1.0LG	1.0cc Vial
MINXP-CAN2.0LG	2.0cc Vial

Particle size ranges from 1000-2000µm

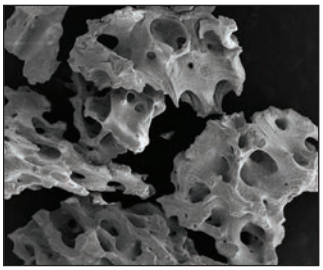
MinerOss XP Syringe

MINXP-SYR0.25	0.25cc Syringe
MINXP-SYR0.5	0.5cc Syringe

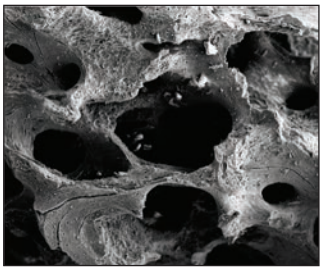
Particle size ranges from 250-1000µm



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



SEM at 25x



SEM at 75x

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.[2]

Bone grafting options

Applications

	Periodontal defects	4-wall extraction sockets	3-wall extraction sockets	Sinus augmentation	Ridge augmentation	Grafting for implant placement	Peri-implant defects	Dehiscence defects	Block grafting
MinerOss Blend	✔	✔	✔	✔	✔	✔			
MinerOss Cancellous	✔	✔	✔	✔	✔	✔			✔
MinerOss Cancellous Syringe	✔	✔				✔			
MinerOss Cortical			✔	✔	✔				
MinerOss Putty	✔			✔	✔	✔			
MinerOss Flex	✔	✔	✔	✔	✔	✔			
MinerOss Block									✔
Grafton DBM Matrix Plug	✔	✔	✔	✔					
Grafton DBM Matrix Putty	✔	✔	✔	✔					
Prolifica	✔	✔	✔	✔	✔	✔	✔	✔	
Genate Blend & Min/Demin	✔	✔	✔	✔	✔	✔			
MinerOss X Cancellous	✔	✔	✔	✔	✔		✔	✔	✔
MinerOss X Cortical	✔	✔	✔	✔	✔		✔	✔	
MinerOss X Syringe	✔	✔	✔	✔	✔		✔	✔	✔
MinerOss X Collagen	✔	✔	✔	✔					
MinerOss X Plug	✔	✔		✔	✔		✔	✔	
MinerOss XP Cancellous	✔	✔	✔	✔	✔		✔	✔	✔
MinerOss XP Syringe	✔	✔	✔	✔	✔		✔	✔	✔

NOTE: Please refer to the official Instructions for Use for description, indications, contraindications, warnings, precautions and other important information.

Soft tissue options

PerioMatrix™

PerioMatrix is a resorbable, cross-linked soft tissue augmentation matrix that is engineered from highly purified type I collagen fibers derived from porcine Achilles tendon. It is designed for use in periodontal, oral and maxillofacial surgery. It is intended to increase keratinized tissue (KT) around teeth or implants (in situations like thin gingival tissue around implant, gingival recession and compromised keratinized tissue width) and thicken tissue for thin phenotypes.

- Composed of two structures: a smooth outer layer that acts as a barrier membrane and a porous matrix layer to allow cell invasion and tissue ingrowth
- Available in various sizes and easily trimmed for appropriate fit to be sutured or pinned into place during surgery
- Designed so the porous layer is in contact with host tissue, including bone, bone graft or periosteum, to facilitate tissue integration
- The stability of the barrier membrane layer allows for placement without the need for primary closure

Applications[3]

- Localized gingival augmentation to increase keratinized tissue around teeth and implants
- Covering of implants placed in immediate or delayed extraction sockets

PerioMatrix (Thin)

PMN-1520	15mm x 20mm (Thin)
PMN-2030	20mm x 30mm (Thin)
PMN-3040	30mm x 40mm (Thin)

Thickness range: 2.5mm - 3.5mm

PerioMatrix (Thick)

PMK-1520	15mm x 20mm (Thick)
PMK-2030	20mm x 30mm (Thick)
PMK-3040	30mm x 40mm (Thick)
PMK-10	10mm (Round Thick)

Thickness range: 4mm - 5mm



Soft tissue options

AlloDerm SELECT™ Regenerative Tissue Matrix (RTM) / AlloDerm SELECT™ THICK

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.*[14, 15] AlloDerm SELECT™ RTM is available with a thickness range of 1.6mm ± 0.4mm.

AlloDerm SELECT™ THICK maintains the same properties and indications as AlloDerm SELECT™ RTM, but it is thicker in size. The available thickness range for this product is 2.4mm ± 0.4mm.

- Use of AlloDerm SELECT™ RTM results in reduced postoperative bleeding and swelling as reported in a case series[16, †]
- 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[17, ‡]
- Most published ADM in implant dentistry[18]
- Sterile and ready to use

Applications[3]

- Root coverage
- Gingival augmentation
- Soft tissue ridge augmentation
- Soft tissue augmentation around implants



AlloDerm SELECT™ RTM can be stored at room temperature.[3]

AlloDerm SELECT™ RTM

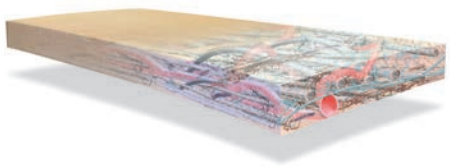
RTU-0101	1cm x 1cm
RTU-0102	1cm x 2cm
RTU-0104	1cm x 4cm
RTU-0204	2cm x 4cm

Thickness range: 1.6mm ± 0.4mm

AlloDerm SELECT™ THICK

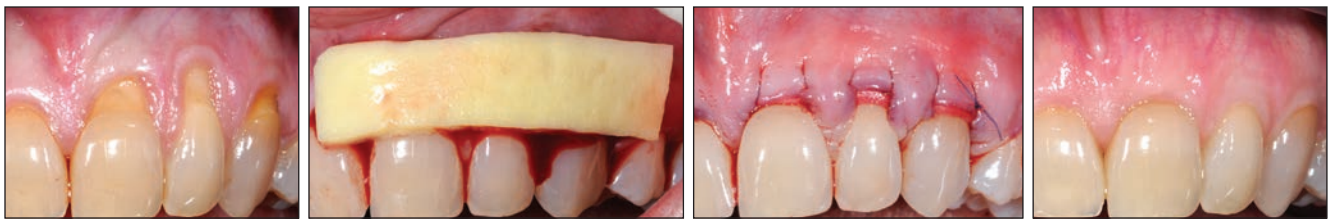
RTU-THK0101	1cm x 1cm
RTU-THK0102	1cm x 2cm
RTU-THK0104	1cm x 4cm
RTU-THK0204	2cm x 4cm

Thickness range: 2.4mm ± 0.4mm



Regenerative Tissue Matrix

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



AlloDerm SELECT™ RTM case images courtesy of Edward P. Allen, DDS, PhD

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™ RTM utilizes the same proprietary processing that maintains tissue integrity and supports tissue regeneration by allowing rapid revascularization, fibroblast repopulation and a minimal inflammatory response.[14, 15] 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).[19]

- Benefits soft tissue quality and serves as a barrier membrane[19]
- Enhances esthetics while also providing support to the bone regeneration process[20]
- Demonstrated alternative to bioabsorbable membranes[20]

Applications[3]

- Graft protection and containment
- Flap extender to achieve primary closure

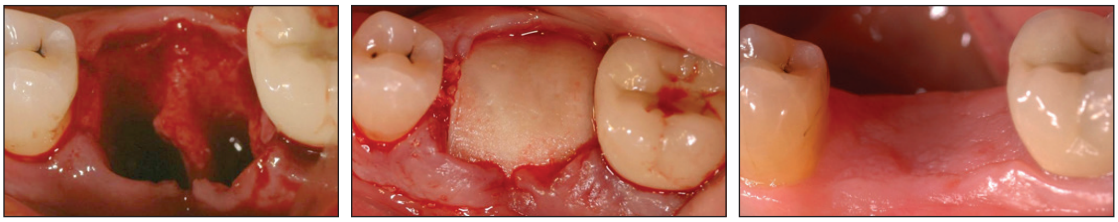
AlloDerm SELECT GBR™ RTM

RTU-GBR0101	1cm x 1cm
RTU-GBR0102	1cm x 2cm
RTU-GBR0104	1cm x 4cm
RTU-GBR0204	2cm x 4cm

Thickness range: 1.0mm ± 0.2mm



AlloDerm SELECT GBR™ RTM can be stored at room temperature.[3]



AlloDerm SELECT GBR™ RTM case images courtesy of Lewis C. Cummings, DDS, MS

Soft tissue applications

	Root coverage	Gingival augmentation	Soft tissue augmentation around implants	Soft tissue ridge augmentation	Graft protection & containment	Flap extender to achieve primary closure
PerioMatrix		✔	✔	✔		✔
AlloDerm SELECT RTM	✔	✔	✔	✔		
AlloDerm SELECT THICK	✔	✔	✔	✔		
AlloDerm SELECT GBR RTM	✔				✔	✔

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[3]

- Extraction sockets
- Denture sores
- Oral ulcers
- Periodontal surgical wounds
- Burns
- Surgical wounds
- Traumatic wounds



BioPlug

BIOPLUG	**Pack of 10**

BioStrip

BIOSTRIP	**Pack of 10**



2.5cm x 7.5cm

BioStrip size reference



1cm x 2cm

BioPlug size reference

Membranes

Striate+™

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[21]
- Bi-layer membrane readily conforms to bone surfaces
- Dense barrier layer prevents infiltration of gingival cells while allowing passage of bioactive molecules and proteins[21]
- Bioactive chamber allows early integration of bone-forming cells and provides a favorable environment for osteogenesis[21]

Applications[3]

- Immediate extraction sites
- Delayed extraction sites
- Graft containment of bone defects
- Guided bone regeneration
- Guided tissue regeneration
- Periodontal defects



Striate+

OCG-152	15mm x 20mm
OCG-203	20mm x 30mm
OCG-304	30mm x 40mm



15mm x 20mm 20mm x 30mm 30mm x 40mm

Striate+ size reference

Membranes

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

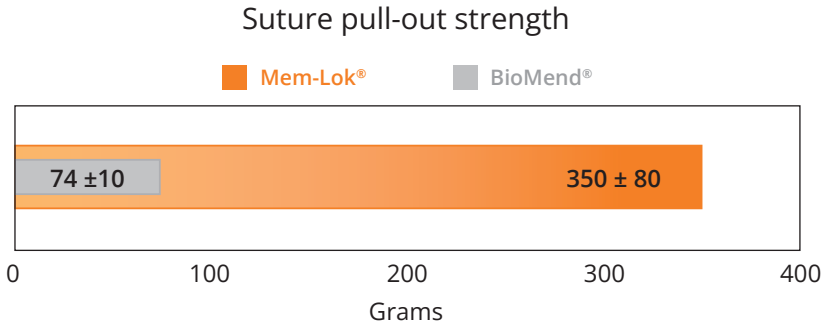


Applications[3]

- Extraction sockets
- Ridge reconstruction
- Bone augmentation around implants
- Bony defects
- Periodontal defects

Mem-Lok RCM

RCM-ML1520	15mm x 20mm
RCM-ML2030	20mm x 30mm
RCM-ML3040	30mm x 40mm



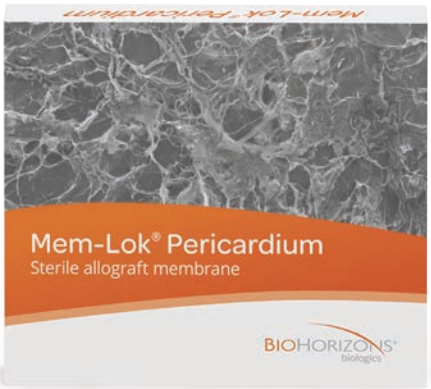
Suture pull-out strength of the collagen membrane-dense fibers provide high mechanical strength.[24]

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[25]
- 5-year shelf life[2]
- Can be stored at room temperature[3]



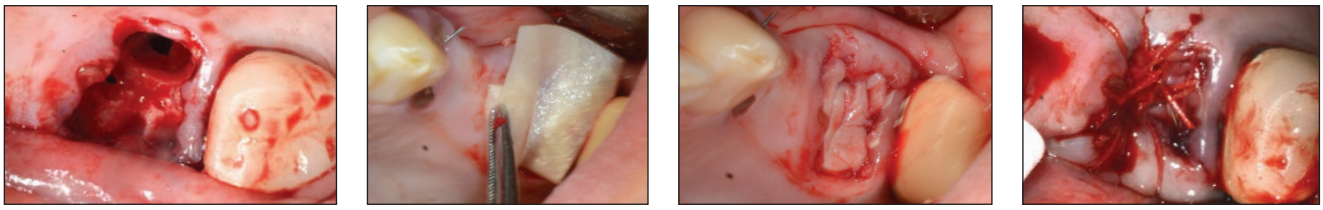
Applications[3]

- Extraction sites
- Periodontal defects
- Block graft coverage
- Ridge reconstruction

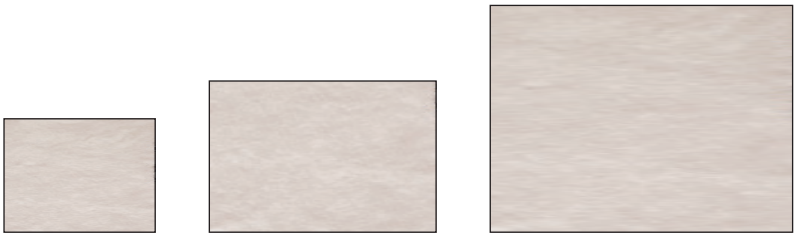
Mem-Lok Pericardium

PERI-ML1520INT	**15mm x 20mm**
PERI-ML2030INT	**20mm x 30mm**
PERI-ML3040INT	**30mm x 40mm**

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



Mem-Lok Pericardium case images courtesy of Guy Rosenstiel, DMD



15mm x 20mm 20mm x 30mm 30mm x 40mm

Mem-Lok RCM and Pericardium size reference

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.[26] This elastic and lightweight membrane acts as a scaffold and possesses unique non-immunological properties.[26, 27]

- Amnion and chorion layers act as protective barriers to facilitate ultimate care[26]
- Multiple preserved growth factors and cytokines are naturally present within the membrane[26, 28]
- Minimally manipulated to preserve the antibacterial properties[26, 29]

Applications[3]

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



Mem-Lok Amnio

AMN-ML1212	12mm x 12mm
AMN-ML1520	15mm x 20mm
AMN-ML2030	20mm x 30mm



12mm x 12mm 15mm x 20mm 20mm x 30mm

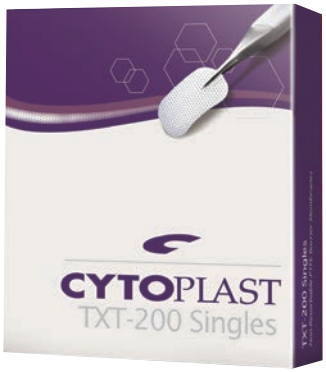
Mem-Lok Amnio size reference

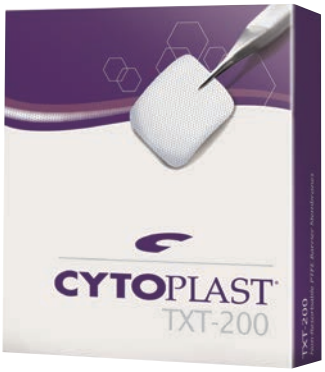
Membranes

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





Cytoplast Dense PTFE membranes

OG-TXT1224-1	Cytoplast TXT-200 Singles 12mm x 24mm
OG-TXT1224	Cytoplast TXT-200 Singles (pack of 10) 12mm x 24mm
OG-TXT2530-1	Cytoplast TXT-200 25mm x 30mm
OG-TXT2530	Cytoplast TXT-200 (pack of 4) 25mm x 30mm



TXT-200
12mm x 24mm



TXT-200
25mm x 30mm

Cytoplast Dense PTFE membrane size reference

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[3]

OG-TI250ANL-2	Ti-250 Anterior Narrow (pack of 2)	12mm x 24mm

Coverage of narrow single-tooth extraction sites, especially where one bony wall is missing.

OG-TI250AS-2	Ti-250 Anterior Singles (pack of 2)	14mm x 24mm

Coverage of single-tooth extraction sites, especially where one or more bony walls are missing.

OG-TI250ATC-2	Ti-250 Anterior Trans Crestal (pack of 2)	24mm x 38mm

Designed for bony defects between adjacent teeth, including ridge augmentation.

OG-TI250BL-2	Ti-250 Buccal (pack of 2)	17mm x 25mm

Treatment of large buccal defects.

OG-TI250PD-2	Ti-250 Posterior Distal (pack of 2)	38mm x 38mm

Designed for large bony defects, including distal extension of the posterior ridge.

OG-TI250PL-2	Ti-250 Posterior Large (pack of 2)	25mm x 30mm

Suited for treating large bony defects, including ridge augmentation.

OG-TI250PS-2	Ti-250 Posterior Singles (pack of 2)	20mm x 25mm

Suited for covering posterior extraction sites and limited ridge augmentation.

OG-TI250PST-2	Ti-250 Posterior Singles T2 (pack of 2)	25mm x 36mm

Designed for grafting extraction sites and limited ridge augmentation.

OG-TI250PTC-2	Ti-250 Posterior Trans Crestal (pack of 2)	38mm x 38mm

Designed for large bony defects between adjacent teeth, including ridge augmentation.

OG-TI250XL-2	Ti-250 XL (pack of 2)	30mm x 40mm

Sized to cover very large bony defects, including ridge augmentation. Larger titanium spans more of the PTFE membrane for additional rigidity.

OG-TI250XLK-2	Ti-250 XLK (pack of 2)	30mm x 40mm

Sized to cover large bony defects, including ridge augmentation. Smaller titanium frame allows for greater versatility when shaping.

Membranes

Cytoplast™ Titanium-Reinforced Dense PTFE membranes



OG-TI250ANL-2
Ti-250 Anterior Narrow
12mm x 24mm



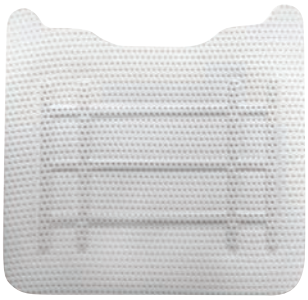
OG-TI250AS-2
Ti-250 Anterior Singles
14mm x 24mm



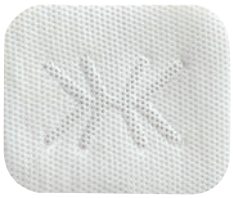
OG-TI250ATC-2
Ti-250 Anterior Trans Crestal
24mm x 38mm



OG-TI250BL-2
Ti-250 Buccal
17mm x 25mm



OG-TI250PD-2
Ti-250 Posterior Distal
38mm x 38mm



OG-TI250PL-2
Ti-250 Posterior Large
25mm x 30mm



OG-TI250PS-2
Ti-250 Posterior Singles
20mm x 25mm



OG-TI250PST-2
Ti-250 Posterior Singles T2
25mm x 36mm



OG-TI250PTC-2
Ti-250 Posterior Trans Crestal
38mm x 38mm



OG-TI250XL-2
Ti-250 XL
30mm x 40mm



OG-TI250XLK-2
Ti-250 XLK
30mm x 40mm

Cytoplast Titanium-Reinforced Dense PTFE membrane
Size reference

Membranes

Applications

	Striate+	Mem-Lok RCM	Mem-Lok Pericardium	Mem-Lok Amnio	Cytoplast TXT-200 & TXT-200 Singles	Cytoplast Ti-250
Graft protection & containment	✔	✔	✔		✔	✔
Bone augmentation		✔				
Periodontal defects	✔	✔	✔	✔		
Ridge preservation/ reconstruction		✔	✔			
Bony defects		✔	✔	✔		
Sinus perforations				✔		
Socket preservation				✔		
Gingival recession				✔		
Immediate/ delayed extraction sites	✔					
Guided bone regeneration	✔					
Guided tissue regeneration	✔					

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

Cytoplast™ PTFE sutures

16mm
3/8 Circle Precision
Reverse Cutting USP 4-0



OG-CS-0618RC **16mm 3/8 Circle Precision Reverse Cutting USP 4-0**

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

13mm
3/8 Circle Precision
Reverse Cutting USP 4-0



OG-CS-0618PREM **13mm 3/8 Circle Precision Reverse Cutting USP 4-0**

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

19mm
3/8 Circle
Reverse Cutting USP 3-0



OG-CS-051819 **19mm 3/8 Circle Reverse Cutting USP 3-0**

Most popular needle in dentistry and most popular suture size.

16mm
3/8 Circle
Reverse Cutting USP 3-0



OG-CS-0518 **16mm 3/8 Circle Reverse Cutting USP 3-0**

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 Perma Sharp® sutures

For use in oral plastic surgery procedures



10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN1816C — **6-0 Gut, Chromic 18 C-1 Premium Suture**

6-0 Chromic Gut 18", C-1 Premium. Finer point geometry for smoother penetration



10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN8697P — **6-0 Polypropylene, Blue 18 C-1 Premium Suture**

6-0 Polypropylene 18", C-1 Premium. Finer point geometry for smoother penetration.



10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN8696P — **7-0 Polypropylene, Blue 18 C-1 Premium Suture**

7-0 Polypropylene 18", C-1 Premium. This suture is used to secure coronally positioned flap/pouch over the graft.



12mm
3/8 Circle Reverse Cut

HF-PSN8384P — **6-0 Polypropylene, Blue 18 C-17 Suture**

6-0 Polypropylene 18", C-17. Finer point geometry for smoother penetration.

Dr. Carl E. Misch's recommended Perma Sharp® sutures

For use in implant and bone graft related procedures



23mm
1/2 Circle Reverse Cut

HF-PSN460V — **3-0 Violet PGA, 27 C-9 Suture**

3-0 Violet PGA Suture. 27", C-9. Finer point geometry for smoother penetration.



18.7mm
3/8 Circle Reverse Cut

HF-PSN392V — **4-0 Violet PGA, 18 C-6 Suture**

4-0 Violet PGA Suture. 18", C-6. Finer point geometry for smoother penetration.

**Data on file with Hu-Friedy*

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.

160-900 **Bone Fixation Screw Kit**

includes:

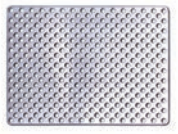
- Flexible micro mesh
- Screwdriver body
- Comprehensive instrument set
- Autoclavable screw block with lid
- 24 screws:
  - (6) 1.4mm x 8.0mm micro screws
  - (6) 1.4mm x 10.0mm micro screws
  - (6) 2.0mm x 10.0mm mini screws
  - (6) 2.0mm x 12.0mm mini screws



Bone Fixation Screw Kit reorder items



BSV-14X4	1.4mm x 4.0mm micro screw (pack of 6)
BSV-14X6	1.4mm x 6.0mm micro screw (pack of 6)
BSV-14X8	1.4mm x 8.0mm micro screw (pack of 6)
BSV-14X10	1.4mm x 10.0mm micro screw (pack of 6)
BSV-14X12	1.4mm x 12.0mm micro screw (pack of 6)
BSV-2X8	2.0mm x 8.0mm mini screw (pack of 6)
BSV-2X10	2.0mm x 10.0mm mini screw (pack of 6)
BSV-2X12	2.0mm x 12.0mm mini screw (pack of 6)
BSV-2X14	2.0mm x 14.0mm mini screw (pack of 6)



BS-MMESH	Micro mesh for guided bone regeneration 24.0mm x 35.0mm, 0.1mm thick



BS-MCSSFT-HND	Micro screwdriver shaft for screwdriver body
BS-MCSSFT-ANG	Micro screwdriver shaft for latch-type handpieces
BS-1MCDB-ANG	1.0mm micro drill bit for latch-type handpieces
BS-MNSSFT-HND	Mini screwdriver shaft for screwdriver body
BS-MNSSFT-ANG	Mini screwdriver shaft for latch-type handpieces
BS-16MMDB-ANG	1.6mm mini drill bit for latch-type handpieces
BS-16X54.8MDB-STR	1.6 x 54.8mm mini drill bit for friction-grip handpieces (Ø2.35mm)
BS-16X67MDB-STR	1.6 x 67.0mm mini drill bit for friction-grip handpieces (Ø2.35mm)
BS-SDRIVER	Screwdriver body

Instruments

Allen Oral Plastic Surgery Kit



HF-ALLENKIT Allen Oral Plastic Surgery Kit

Developed by Dr. Edward P. Allen, this comprehensive kit provides precision microsurgical instruments specifically designed for invasive soft tissue grafting procedures.

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-KPAX Allen End-Cutting Intrasulcular Knife, 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-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

HF-KO12KPO3AR Allen Modified Orban Knife 1/2, Round, #6 Satin Steel® Handle



Instruments

Basic Hard Tissue Grafting Kit



HF-IMPMOODYK **Basic Hard Tissue Grafting Kit**

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

HF-CSEUWES6 Euwe Bone Scoop/Plugger, #6 Satin Steel® Handle



HF-IM8121C4 Gray Signa-Stat, 4 clips

HF-CL856 #85 Lucas DE Surgical Curette, #6 Satin Steel® Handle



HF-CRM Retractor University of Minnesota



HF-MIR5HD #5 High Definition Cone Socket Mirror, Single-sided (1 per kit)



HF-MH6 #6 Satin Steel® Mirror Handle



HF-P24GSP6 #24G Periosteal, #6 Satin Steel® Handle



HF-DP17 #17 Dressing Pliers



HF-NH5038 Crile-Wood Perma Sharp® Needle Holder



HF-F1XS #1 Atraumair Extraction Forceps



HF-PCP126 Color-Coded SE Probe 3-6-9-12, #6 Satin Steel® Handle



HF-S18 Iris Scissors, Curved



HF-CM116 #11 Miller Bone Curette, #6 Satin Steel® Handle



HF-10-130-05 #5 Scalpel Handle, Round Straight



Instruments

Miscellaneous

Allen/Johnston Suture Removal Kit

HF-AJSRKIT **Allen/Johnston Suture Removal Kit**

Dr. Edward P. Allen, a recognized expert in periodontal surgery, and Shanon Johnston, CDA, designed this complete suture removal kit. Microsurgery has 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.



Crestal-Lift-Control Basic Kit

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

MS-BCLBA2 **Crestal-Lift-Control Basic Kit includes:**

- 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

Miscellaneous

Bone Scraper

The Bone Scraper provides a simple method for collecting autologous cortical bone for use in oral surgery with a minimally invasive technique. The device accelerates harvesting time and is effective on various bone surfaces (plane, concave, convex) as it has a round cutting blade, with a curved design that allows access to posterior areas.



Applications[3]

- Sterile, single use, disposable
- Stainless steel cutting blade
- 360° blade rotation allows four sharp edges for maximum efficiency
- Ergonomic handle for comfortable grip and control

BSF-5P	Bone Scraper (5 pack)

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.

BSMTDR	Manual Tack Driver
BSMTDRT	Replacement Tack Driver Tip



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 fixates membranes.

400-270	AutoTac System Kit includes:

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



AutoTac 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

Notes

Notes

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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).

Additional Warranties: BioHorizons warranties surgical drills, taps and other surgical and restorative instruments.

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