OSTEOGENICS

BIOMEDICAL | EST. 1996

Regeneration Products Catalog

osteogenics.com

Welcome to Osteogenics Biomedical

We are Osteogenics Biomedical, makers of Cytoplast™. Established in 1996 with a goal to create a more predictable alternative to Gore-Tex® membranes, we have grown to be a leader in barrier membrane and PTFE suture technologies in the United States. After 20 years of product development focused on surgical predictability, we are expanding globally. We encourage you to try Cytoplast™ regenerative products to see why thousands of surgeons rely on us. We guarantee your satisfaction – or your money back. *To find the distributor nearest you, go to www.osteogenics.com/GlobalNetwork.*

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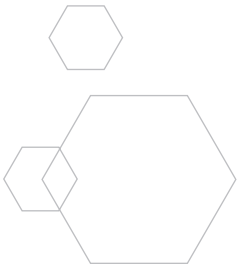


Zcore™ Porcine Xenograft Particulate

.25 mm - 1.0 mm Particle Size

ZS050	0.5 cc
ZS100	1.0 cc
ZS200	2.0 cc
ZS400	4.0 cc

Zcore™ Porcine Xenograft Particulate

1.0 mm - 2.0 mm Particle Size

ZL100	1.0 cc
ZL200	2.0 cc

Zcore™ Porcine Xenograft Particulate in Syringe

.25 mm - 1.0 mm Particle Size

ZY025	0.25 cc
ZY050	0.5 cc

not actual size.

Features & Benefits of Zcore™

Zcore™ is an osteoconductive, porous, anorganic bone mineral with a carbonate apatite structure derived from porcine cancellous bone.

Interconnecting pores

Interconnecting macroscopic and microscopic porous structure supports the formation and ingrowth of new bone

88% to 95% void space

88% to 95% Void Space: hyper-porosity of porcine cancellous matrix and intra-particle space facilitated by rough particle morphology reduce bulk density of the graft, allowing greater empty space for new bone growth*

Porcine cancellous bone

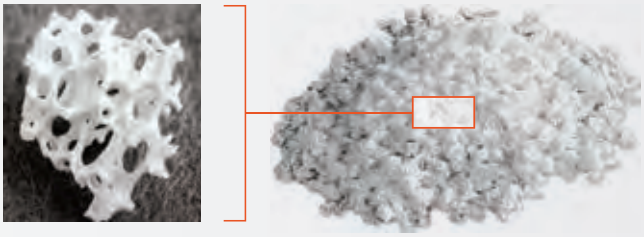
Derived from porcine cancellous bone, eliminating risk of BSE transmission

Processed using minimal heat

Heat treated to an optimal temperature that ensures a degree of crystallinity[1] consistent with native bone mineral to allow for remodeling of the healing bone

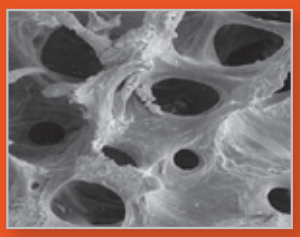
*0.25 mm – 1.0 mm particle size = 88% void space, 1.0 mm – 2.0 mm = 95% void space

1. Li ST, Chen HC, Yuen D. Isolation and Characterization of a Porous Carbonate Apatite From Porcine Cancellous Bone. Science, Technology, Innovation, Aug. 2014: 1–13.



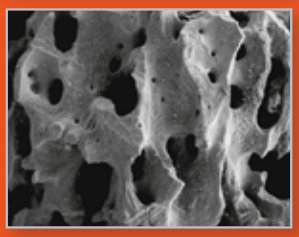
SEM of Processed Human Bone

Magnification x50



SEM of Zcore™ Porcine Xenograft Particulate

Magnification x50



Cytoplast™ RTM Collagen

Type I bovine collagen membrane

shown actual size.

15 mm x 20 mm

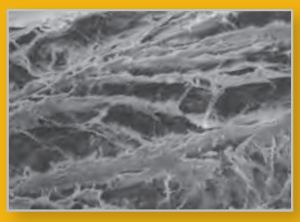
RTM1520 (2 membranes per box)

20 mm x 30 mm

RTM2030 (2 membranes per box)

30 mm x 40 mm

RTM3040 (2 membranes per box)



Multi-layer construction allows tissue integration into outer layer, while preventing direct passage of bacteria and epithelial cells.

"...I am impressed with its *handling*, but most importantly, I am impressed with its *results*."

Jerald Rosenberg, DMD; Periodontist

Features & Benefits

Manufactured from highly purified type I bovine achilles tendon

Safe for the patient

26 – 38 week resorption time

Long predictable resorption time limits the risk of particle loss due to premature resorption

High tensile strength

You can suture or tack the membrane in place without tearing

Cell occlusive

Prevents epithelial down growth

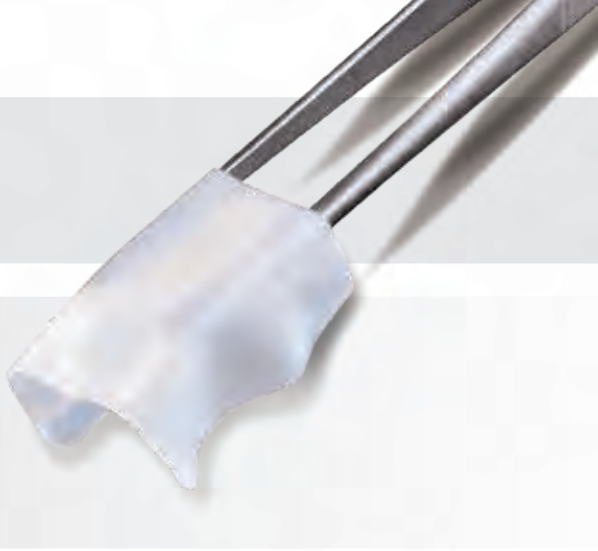
Optimized flexibility

Stiff enough for easy placement, yet easily drapes over ridge

Zmatrix™

Porcine peritoneum collagen membrane

A perfectly soft consistency that drapes without the usual self-adherence experienced with other natural collagen membranes



shown actual size.

15 mm x 20 mm
ZM1520

20 mm x 30 mm
ZM2030

30 mm x 40 mm
ZM3040

Features

Extracellular Components
Processed to preserve extracellular components including laminin, fibronectin, elastin, and glycosaminoglycans*

Easy to Handle
Designed to drape without adhering to itself

Elastic
Natural peritoneum collagen structure allows for elasticity

Natural, Native Collagen Membrane

*Zmatrix™ is a natural, native collagen membrane; cross-linking chemicals and agents are unnecessary. Proprietary processing technology allows preservation of collagen as well as extracellular components including laminin, fibronectin, elastin, and glycosaminoglycans.**

*Hoganson DM, Owens GE, O'Doherty EM, Bowley CM, Goldman SM, Harilal DO, Neville CM, Kronengold RT, Vacanti JP. Preserved extracellular matrix components and retained biological activity in decellularized porcine mesothelium. Biomaterials. 2010, 27: 6934–6940.

Vitala®

Porcine pericardium collagen membrane | Substantially resorbed in 26 weeks

shown actual size.

10 mm x 10 mm
VIT1010

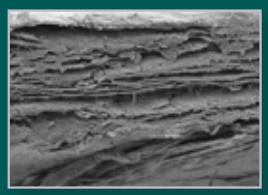
vitala mini

15 mm x 20 mm
VIT1520

13 mm x 25 mm
VIT1325

20 mm x 30 mm
VIT2030

30 mm x 40 mm
VIT3040



1000x magnification

Excellent tensile strength

Supple and flexible

Features & Benefits

Natural

Manufactured using a proprietary protocol designed to maintain the natural, microporous, 3-layered architecture of the tissue without the need for cross-linking chemicals and agents

Durable

Designed to resist tearing during placement,
Vitala® is naturally strong

Adaptable

The natural collagen structure provides a unique combination of supple handling and ideal defect adaptability. Because both sides are smooth, either side may be placed against the defect

Cytoplast™ TXT-200 & TXT-200 Singles

Micro-textured, high-density PTFE membrane

Most popular membrane for socket grafting

TXT-200 Singles
12 mm x 24 mm

TXT1224-1 (1 membrane per box)

TXT1224 (10 membranes per box)

shown actual size.

TXT-200
25 mm x 30 mm

TXT2530-1 (1 membrane per box)

TXT2530 (4 membranes per box)

Features & Benefits

Non-Resorbable
Won't resorb prematurely – you dictate healing time

100% Dense (non-expanded) PTFE
Impervious to bacteria (pore size less than 0.3 µm)

Data on file

Purposely leave the membrane exposed
Preservation of the soft tissue architecture and keratinized mucosa

Soft tissue attaches, but doesn't grow through the membrane
Exposed membrane allows for non-surgical removal; no anesthesia required

Hexagonal dimples increase surface area
Designed to increase membrane stabilization

The patented Regentex™ surface helps stabilize the membrane and the soft tissue flap. Hexagonal surface dimples provide a textured surface that increases the area available for cellular attachment without increasing porosity. U.S. Patent # 5,957,690

"I always know, *in advance*, the results of my bone grafting when I use Cytoplast™ TXT-200 as a membrane. *Why bother with other membranes?*"

Mark Cohen, DDS; Periodontist

Cytoplast™ Titanium-Reinforced

Titanium-reinforced, high-density PTFE membrane

	Ti-250 (250 µm thick)	Ti-150 (150 µm thick)	
ANL 12 mm x 24 mm Designed for narrow single-tooth extraction sites, especially where one bony wall is missing	*Ti250ANL-1*	*Ti150ANL-1*	*(1 membrane per box)*
	Ti250ANL-2	*Ti150ANL-2*	*(2 membranes per box)*
ANL30 12 mm x 30 mm Designed for narrow single-tooth extraction sites, especially where one bony wall is missing	*Ti250ANL30-1*		*(1 membrane per box)*
	Ti250ANL30-2		*(2 membranes per box)*
PS 20 mm x 25 mm Designed for large extraction sites and limited ridge augmentation	*Ti250PS-1*	*Ti150PS-1*	*(1 membrane per box)*
	Ti250PS-2	*Ti150PS-2*	*(2 membranes per box)*
PL 25 mm x 30 mm Designed for large bony defects, including ridge augmentation	*Ti250PL-1*	*Ti150PL-1*	*(1 membrane per box)*
	Ti250PL-2	*Ti150PL-2*	*(2 membranes per box)*

Versatile Rectangular Shapes

These configurations can be trimmed to fit a variety of defects.

Shown actual size.

**Ti-150 membranes are 40% thinner than Ti-250 membranes, providing clinicians another handling option in Cytoplast™ Titanium-Reinforced Membranes.*

	Ti-250 (250 µm thick)	Ti-150 (150 µm thick)	
XL 30 mm x 40 mm Designed for very large bony defects, including ridge augmentation	*Ti250XL-1*	*Ti150XL-1*	*(1 membrane per box)*
	Ti250XL-2	*Ti150XL-2*	*(2 membranes per box)*
XLK 30 mm x 40 mm Designed for very large bony defects, including ridge augmentation	*Ti250XLK-1*	*Ti150XLK-1*	*(1 membrane per box)*
	Ti250XLK-2	*Ti150XLK-2*	*(2 membranes per box)*
K2 40 mm x 50 mm Designed for the largest bony defects, including ridge augmentation	*Ti250K2-1*	*Ti150K2-1*	*(1 membrane per box)*
	Ti250K2-2	*Ti150K2-2*	*(2 membranes per box)*

Versatile Rectangular Shapes

These configurations can be trimmed to fit a variety of defects.

Shown actual size.

Cytoplast™ Titanium-Reinforced

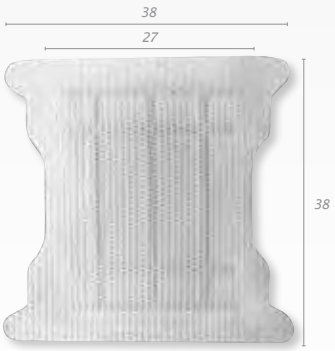
Titanium-reinforced, high-density PTFE membrane

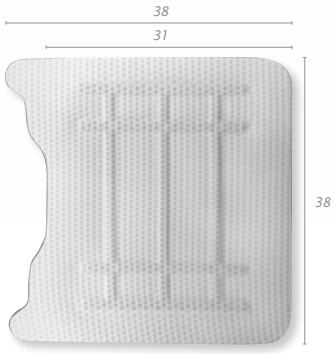
	Ti-250 (250 µm thick)	Ti-150 (150 µm thick)	
AS 14 mm x 24 mm Designed for single-tooth extraction sites, especially where one or more bony walls are missing	Ti250AS-1	Ti150AS-1	(1 membranes per box)
	Ti250AS-2	Ti150AS-2	(2 membranes per box)
ATC 24 mm x 38 mm Designed for large extraction sites, including ridge augmentation	Ti250ATC-1	Ti150ATC-1	(1 membranes per box)
	Ti250ATC-2	Ti150ATC-2	(2 membranes per box)
PTC 38 mm x 38 mm Designed for large bony defects, including ridge augmentation	Ti250PTC-1	Ti150PTC-1	(1 membranes per box)
	Ti250PTC-2	Ti150PTC-2	(2 membranes per box)
PD 38 mm x 38 mm Designed for large bony defects, including distal extension of the posterior ridge	Ti250PD-1	Ti150PD-1	(1 membranes per box)
	Ti250PD-2	Ti150PD-2	(2 membranes per box)

Interproximal Shapes

These configurations are designed to fit between existing teeth.

Dimensional measurements shown in mm Width measurements noted at widest point and narrowest point. Shown actual size.





Cytoplast™ Titanium-Reinforced

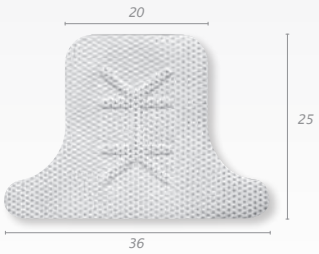
Titanium-reinforced, high-density PTFE membrane

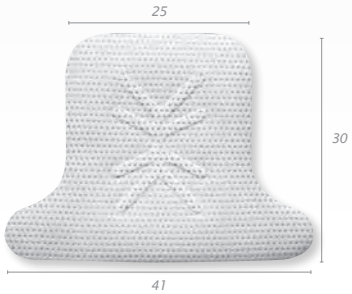
	Ti-250 (250 µm thick)	Ti-150 (150 µm thick)	
BL 17 mm x 25 mm Designed for large buccal defects	Ti250BL-1	Ti150BL-1	(1 membranes per box)
	Ti250BL-2	Ti150BL-2	(2 membranes per box)
PST 36 mm x 25 mm Designed for large extraction sites and limited ridge augmentation in the anterior maxilla	Ti250PST-1	Ti150PST-1	(1 membranes per box)
	Ti250PST-2	Ti150PST-2	(2 membranes per box)
PLT 41 mm x 30 mm Designed for large bony defects, including ridge augmentation in the anterior maxilla	Ti250PLT-1	Ti150PLT-1	(1 membranes per box)
	Ti250PLT-2	Ti150PLT-2	(2 membranes per box)

Shapes with Fixation Points

These configurations are designed with fixation points outside of the defect area.

Dimensional measurements shown in mm Width measurements noted at widest point and narrowest point. Shown actual size.



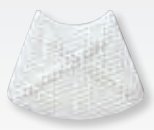


	Ti-250 (250 µm thick)	Ti-150 (150 µm thick)	
AP 13 mm x 19 mm Designed for periodontal defects in the anterior	Ti250AP-1	Ti150AP-1	(1 membranes per box)
	Ti250AP-2	Ti150AP-2	(2 membranes per box)
PP 13 mm x 18 mm Designed for periodontal defects in the posterior	Ti250PP-1	Ti150PP-1	(1 membranes per box)
	Ti250PP-2	Ti150PP-2	(2 membranes per box)

Perio Shapes

These configurations are designed for grafting perio defects.

Shown actual size.



RPM™

Reinforced PTFE mesh

NEW

Versatile Rectangular Shapes

These configurations can be trimmed to fit a variety of defects.

Shown actual size.

- **PS**
  20 mm x 25 mm
  Designed for large extraction sites and limited ridge augmentation
  RPM250PS

- **PL**
  25 mm x 30 mm
  Designed for large bony defects, including ridge augmentation
  RPM250PL

- **XL**
  30 mm x 40 mm
  Designed for very large bony defects, including ridge augmentation
  RPM250XL

- **XLK**
  30 mm x 40 mm
  Designed for very large bony defects, including ridge augmentation
  RPM250XLK

- **XLKM (mandible)**
  30 mm x 40 mm
  Designed for very large bony defects, including mandibular ridge augmentation *NOTE: Non-perforated region is designed for lingual aspect*
  RPM250XLKM

RPM's unique circular macroporous design allows for direct contact between the bone graft and periosteum, allowing naturally occurring revascularization and infiltration of cells into the bone graft.

Versatile Rectangular Shapes

- **K2**
  40 mm x 50 mm
  Designed for the largest bony defects, including ridge augmentation

RPM250K2

Shapes with Fixation Points

These configurations are designed with fixation points outside of the defect area.

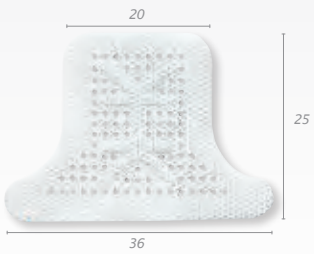
Dimensional measurements shown in mm Width measurements noted at widest point and narrowest point. Shown actual size.

- **BL**
  17 mm x 25 mm
  Designed for large buccal defects

RPM250BL

- **PST**
  36 mm x 25 mm
  Designed for large extraction sites and limited ridge augmentation in the anterior maxilla

RPM250PST



- **PLT**
  41 mm x 30 mm
  Designed for large bony defects, including ridge augmentation in the anterior maxilla

RPM250PLT

NEW

RPM™

Reinforced PTFE mesh

Interproximal Shapes

These configurations are designed to fit between existing teeth.

Dimensional measurements shown in mm Width measurements noted at widest point and narrowest point. Shown actual size.

- **ATC**
  24 mm x 38 mm
  Designed for large extraction sites, including ridge augmentation

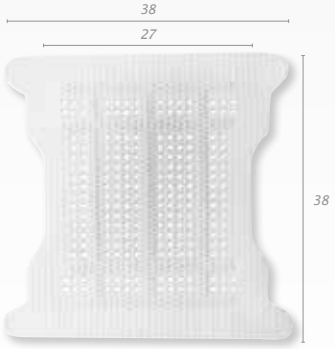
RPM250ATC

- **ATCM (mandible)**
  24 mm x 38 mm
  Designed for large extraction sites, including mandibular ridge augmentation
  NOTE: Non-perforated region is designed for lingual aspect

RPM250ATCM

- **PTC**
  38 mm x 38 mm
  Designed for large bony defects, including ridge augmentation

RPM250PTC



- **PTCM (mandible)**
  38 mm x 38 mm
  Designed for large bony defects, including mandibular ridge augmentation *NOTE:*
  NOTE: Non-perforated region is designed for lingual aspect

RPM250PTCM

RPM™

Reinforced PTFE mesh

NEW

Interproximal Shapes

These configurations are designed to fit between existing teeth.

Dimensional measurements shown in mm Width measurements noted at widest point and narrowest point. Shown actual size.

- **PD**
  38 mm x 38 mm
  Designed for large bony defects, including distal extension of the posterior ridge

  RPM250PD

- **PDMR (mandible right)**
  38 mm x 38 mm
  Designed for large bony defects, including distal extension of the right posterior mandibular ridge
  NOTE: Non-perforated region is designed for lingual aspect

  RPM250PDMR

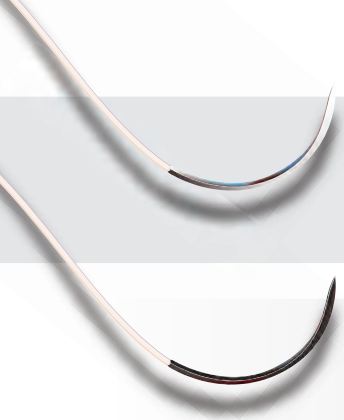
- **PDML (mandible left)**
  38 mm x 38 mm
  Designed for large bony defects, including distal extension of the left posterior mandibular ridge
  NOTE: Non-perforated region is designed for lingual aspect

  RPM250PDML

Circular Macropores *allow direct contact between bone graft and periosteum, allowing naturally occurring revascularization and infiltration of cells into the bone graft*

Titanium Frame *maintains space essential for horizontal and vertical ridge augmentation*

PTFE Mesh *easily conforms to tissue contours*



Cytoplast™ PTFE Suture

The soft monofilament suture

300 Series Stainless Steel Needles

All Cytoplast™ PTFE Sutures now have 300 series stainless steel needles, the gold standard material for suture needles. Tests comparing the new needles to previous needles show a substantial increase in needle strength, initial needle sharpness, and sustained needle sharpness. Tests show that the new 300 series needles are less likely to bend, require less force to penetrate, and maintain sharpness longer. Additionally, CS0618RC and CS06PREM now have longer (121% and 41%, respectively) and geometrically finer precision cutting edges. Data on file

Cytoplast™ undyed 19 mm precision RC 2/0 USP	*CS0418*
Cytoplast™ undyed 16 mm precision RC 3/0 USP	*CS0518*
Cytoplast™ undyed 19 mm precision RC 3/0 USP	*CS051819*
Cytoplast™ undyed 16 mm RC black needle 3/0 USP	*CS0518BK*
Cytoplast™ undyed 19 mm RC black needle 3/0 USP	*CS051819BK*
Cytoplast™ undyed 13 mm TP 4/0 USP	*CS0618PERIO*
Cytoplast™ undyed 13 mm precision RC 4/0 USP	*CS0618PREM*
Cytoplast™ undyed 16 mm precision RC 4/0 USP	*CS0618RC*
• Cytoplast™ undyed 13 mm precision RC 5/0 USP	*CS071813*
• Cytoplast™ undyed 16 mm precision RC 5/0 USP	*CS071816*

NEW

Needle Code Detail

RC 3/8 Circle Reverse Cutting

TP 1/2 Circle Round-Bodied

Features & Benefits

100% Medical Grade PTFE
Biologically inert

Monofilament
Doesn't wick bacteria

Soft (not stiff)
Comfortable for patients

Little to no package memory
Excellent handling, knots securely

Non-resorbable
Keeps the surgical site reliably closed

Pro-Fix™ Membrane Fixation

Precision Fixation System

Pro-fix™ Membrane Fixation Screws are designed as an attractive alternative to using tacks for membrane stabilization. Easy pick-up, solid stability of the screw during transfer to the surgical site, and easy placement make membrane fixation fast and easy.

Tray and organizer dial are designed to store all Pro-fix™ components including up to 100 membrane fixation, tenting, and bone fixation screws

Blades are designed to work universally with all Pro-fix™ membrane fixation, tenting, and bone fixation screws

Membrane Fixation Kit *PFMK20*

(1) Autoclavable Tecapro™ storage tray w/ screw organizer dial
(1) Stainless steel driver handle
(1) 76 mm cruciform driver blade
(1) 56 mm cruciform driver blade
(20) 1.5 x 3.0 mm self-drilling membrane fixation screws

Self-Drilling Membrane Fixation Screws

1.5 mm x 3.0 mm *actual size*

5 screws	*PFMF-5*
10 screws	*PFMF-10*
20 screws	*PFMF-20*

Individual Components

Stainless Steel Driver Handle	*PFDH*
76 mm Cruciform Driver Blade	*PFDB*
56 mm Cruciform Driver Blade	*PFDB56*
Contra Angle Blade	*PFDBCA*
(24 mm long; 10 mm exposed distal length)	
Autoclavable Tecapro™ storage tray	*PFT*
1.2 mm diam. Latch Type Pilot Drill	*PFPD*

Tenting Kit

PFTK12

(1) Autoclavable Tecapro™ storage tray w/ screw organizer dial
(1) Stainless steel driver handle
(1) 76 mm cruciform driver blade
(1) 56 mm cruciform driver blade
(4) 1.5 x 3.0 mm self-drilling tenting screws *(7 mm total length: see below)*
(4) 1.5 x 4.0 mm self-drilling tenting screws *(8 mm total length: see below)*
(4) 1.5 x 5.0 mm self-drilling tenting screws *(9 mm total length: see below)*

For individual Pro-Fix™ driver and container components, see page 19.

Pro-fix™ Tenting Screws are designed with a self-drilling tip, polished neck, and broader head to maintain space under resorbable and non-resorbable membranes in horizontal and vertical bone regeneration procedures.

Self-Drilling Tenting Screws

1.5 mm x 3.0 mm

3.0 mm polished neck + 4.0 mm threaded portion = 7 mm total length

1 screw	*PFT3*
5 screws	*PFT3-5*


actual size

1.5 mm x 4.0 mm

4.0 mm polished neck + 4.0 mm threaded portion = 8 mm total length

1 screw	*PFT4*
5 screws	*PFT4-5*


actual size

1.5 mm x 5.0 mm

5.0 mm polished neck + 4.0 mm threaded portion = 9 mm total length

1 screw	*PFT5*
5 screws	*PFT5-5*


actual size

Fully Threaded Tenting Screws

1.5 mm x 8.0 mm

1 screw	*PFT8*


actual size

1.5 mm x 10.0 mm

1 screw	*PFT10*


actual size

Pro-Fix™ Bone Fixation

Precision Fixation System

Bone Fixation Kit

PFBK12

(1) Autoclavable Tecapro™ storage tray w/ screw organizer dial
(1) Stainless steel driver handle
(1) 76 mm cruciform driver blade
(1) 56 mm cruciform driver blade
(1) 1.2 mm diameter latch type pilot drill
(2) 1.5 x 8 mm bone fixation screws
(4) 1.5 x 10 mm bone fixation screws
(4) 1.5 x 12 mm bone fixation screws
(2) 1.5 x 14 mm bone fixation screws

For individual Pro-Fix™ driver and container components, see page 19.

Pro-fix™ Bone Fixation Screws are designed with finer pitched, self-tapping threads that give the screws greater clamping force while using less driver torque. The screws' threads are equipped with a cutting flute that allows for easier insertion into harder bone. The screws are placed into a 1.2 mm pre-drilled pilot hole.

Self-Tapping Bone Fixation Screws

1.5 mm x 8 mm

1 screw	*PFB8*
5 screws	*PFB8-5*


actual size

1.5 mm x 10 mm

1 screw	*PFB10*
5 screws	*PFB10-5*


actual size

1.5 mm x 12 mm

1 screw	*PFB12*
5 screws	*PFB12-5*


actual size

1.5 mm x 14 mm

1 screw	*PFB14*
5 screws	*PFB14-5*


actual size

Selection of Applicable References

Membrane References

· Wu IH, Bakhshalian N, Galaustian R, Naini RB, Min S, Freire M, Zadeh HH. Retrospective Analysis of the Outcome of Ridge Preservation with Anorganic Bovine Bone Mineral: Marginal Bone Level at Implants Placed Following Healing of Grafted Extraction Sockets. Int J Periodontics Restorative Dent. 2019 Jan/Feb;39(1):131-140.

· Phillips DJ, Swenson DT, Johnson TM. Buccal bone thickness adjacent to virtual dental implants following guided bone regeneration. J Periodontol. 2018 Dec 21.. [Epub ahead of print]

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