PRODUCT CATALOG

SPINE

SPINE | 2018/2019

GMREIS
Quality for Life

GMReis

Quality for Life - this is GMReis' business vision, a company that, since 1989, has been: developing, producing and marketing its product line, classified in the following categories:

- Spine;
- Locking plates and cannulated screws, for traumatology of: upper limb, lower limb and pelvis;
- Intramedullary nails for traumatology of: upper and lower limbs, and ankle arthrodesis;
- External fixators for traumatology and limb resconstruction;
- Extremities: foot and hand;
- Orthopediatrics;
- Bioresorbable suture anchors and,
- Biologics.

GMReis constantly pursues technological innovations and quality products in order to meet customers, surgeons and patients expectations and needs.

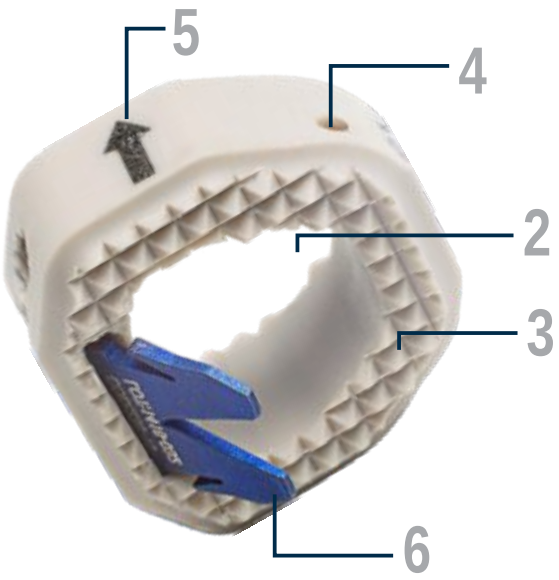
GMReis is located in Campinas/São Paulo – Brazil, with an area of 6.000 m², in a modern Technology Park. It has high-tech equipments, for quality control and production, an ISO Class 8 Cleanning Room of 600 square meters, where bone graft, spine PEEK cages and bioreabsorbable implants are manufactured.

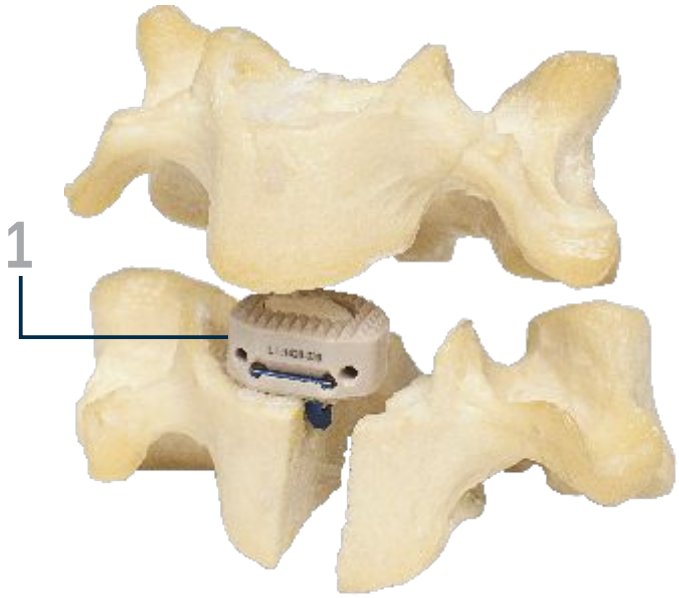
INDEX

Atrium C-Lock PEEK

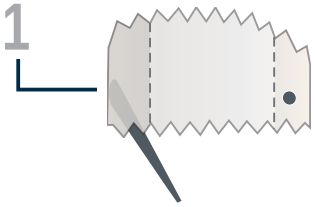
PEEK cervical intervertebral spacer with anti-migration locking system and anatomical shape

Atrium C-Lock PEEK was developed for discectomy and arthrodesys anterior approach procedures, up to 2 levels, to restore intervertebral height and support axial weight on treated level, with no need of plates and screws.





12 mm (small)
13 mm (medium)
14 mm (large)



ADVANTAGES AND CHARACTERISTICS

1. Anatomical design to fit perfectly on the intervertebral space and having maximum contact between the implant and the vertebral surface;
2. Wide central canal for bone graft;
3. "Toothed" surfaces increases implant fixation;
4. The titanium identification pin allows to assess the exact positioning of the implant by x-ray visualization;
5. Arrow Sign for positioning orientation from caudal to cranial spine region prevents placement mistakes and,
6. The titanium alloy locking system, offers immediate stability and prevents the implant from shifting after placement without any plates and screws, reducing surgery time.

Atrium C-Lock PEEK	
COD	h
236-45-P	Small 4,5 mm
236-50-P	Small 5,0 mm
236-60-P	Small 6,0 mm
236-70-P	Small 7,0 mm
236-45-M	Medium 4,5 mm
236-50-M	Medium 5,0 mm
236-60-M	Medium 6,0 mm
236-70-M	Medium 7,0 mm
236-45-G	Large 4,5 mm
236-50-G	Large 5,0 mm
236-60-G	Large 6,0 mm
236-70-G	Large 7,0 mm

Locking system for Atrium C-Lock PEEK
236-10

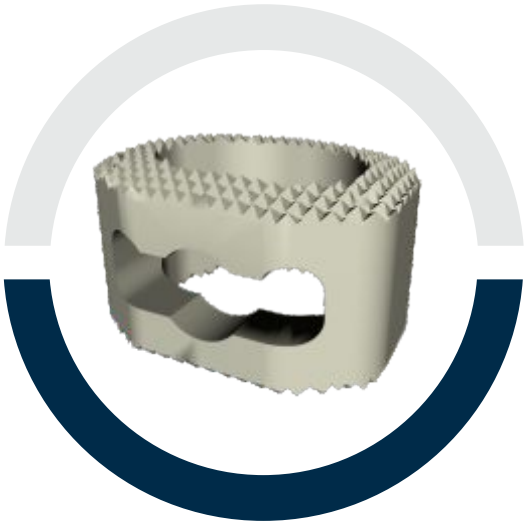
Made of PEEK conform ASTMF2026

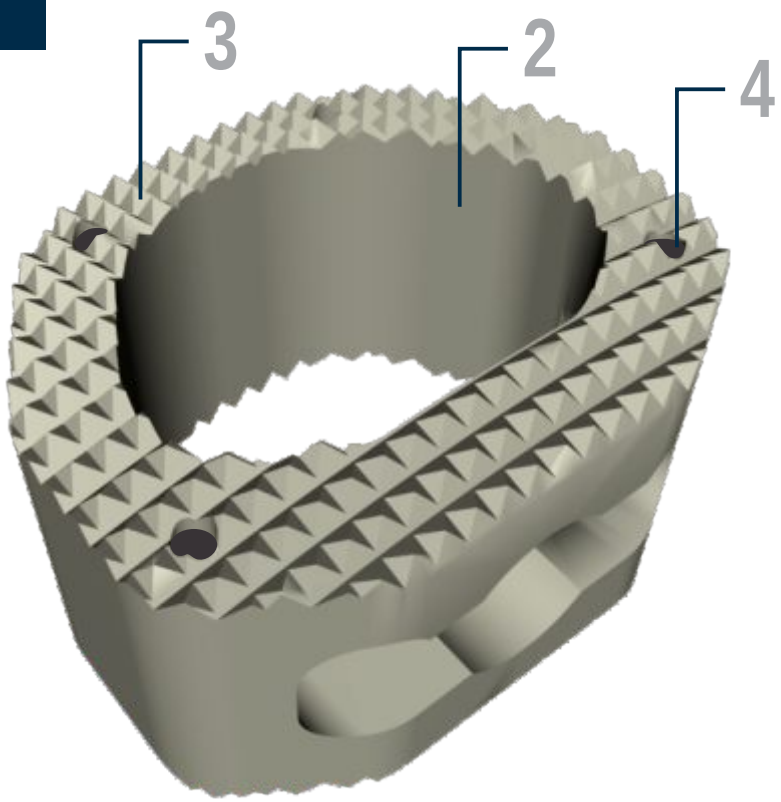
ATRIUM C-PEEK

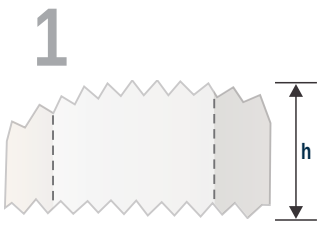
PEEK cervical intervertebral spacer with anatomical shape

Atrium C-PEEK was developed for discectomy and arthrodesis for anterior procedures to restore intervertebral height and support axial weight on treated level.

Made of PEEK conform ASTMF2026







ADVANTAGES AND CHARACTERISTICS

1. Anatomical design to fit perfectly on the intervertebral space and better contact between the implant and the vertebral surface;
2. Wide central canal for bone graft;
3. "Toothed" surfaces increases implant fixation and,
4. The titanium identification pins allow to assess the exact positioning of the implant by x-ray visualization.

Atrium C-PEEK	
COD	h
173-23-P	4,7 mm
173-15-P	5,7 mm
173-16-P	6,7 mm
173-17-P	7,7 mm
173-18-P	8,7 mm
173-29-P	9,7 mm

PEEK

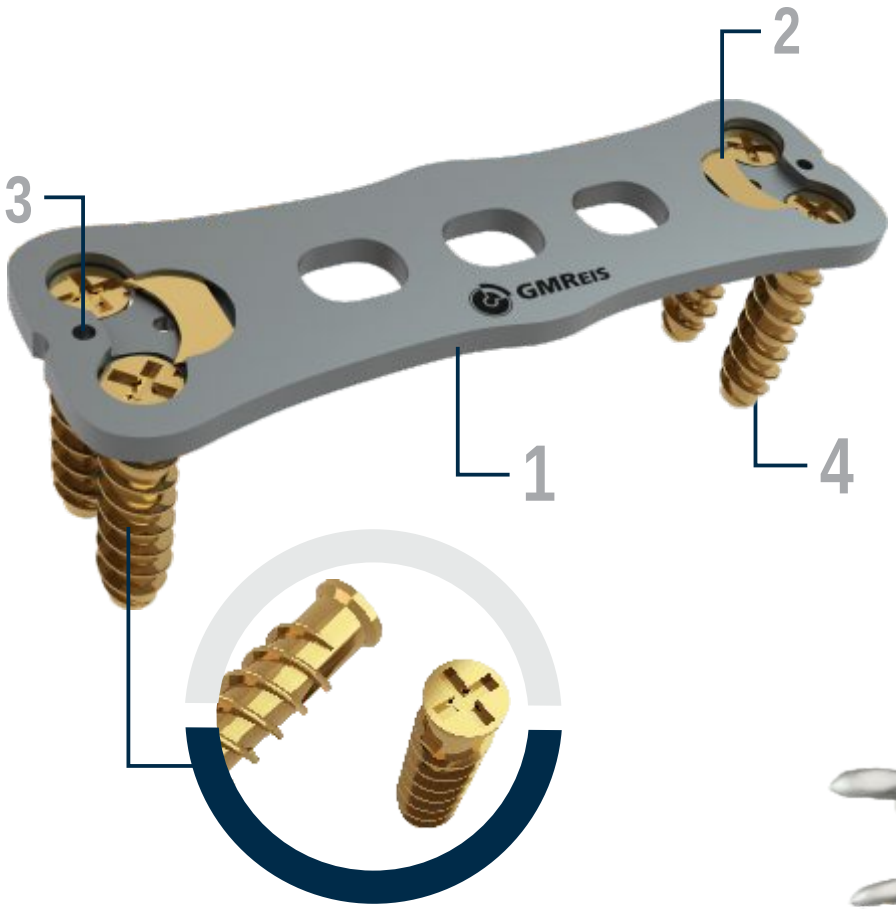
PEEK (polyether ether ketone) is a thermoplastic material, biocompatible due to the combination of its chemical and mechanical properties: this material has higher chemical stability and mechanical properties similarly to the cancellous bone, when compared to steel or titanium alloy.

The use of PEEK as raw material for surgical implants brings the advantage of its radiolucency, what allows to observe the intervertebral fusion on x-ray images.

Sophira Plates

Low Profile Anterior Cervical Plate with locking system

Sophira Plate was developed to treat of cervical spine pathologies by single or multi-level arthrodesis, improving the intervertebral fusion process.



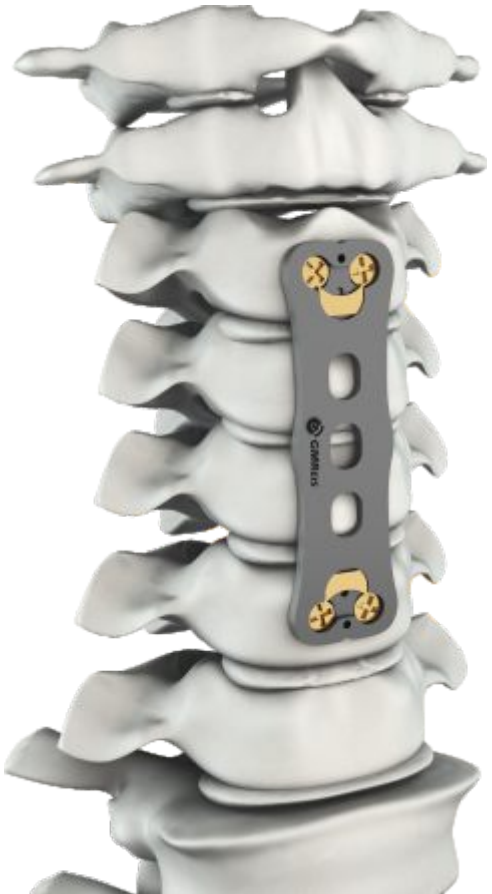
Sophira Plates	
192-01	22,5 mm 04 Holes
192-02	25,0 mm 04 Holes
192-03	27,5 mm 04 Holes
192-04	30,0 mm 05 Holes
192-05	32,5 mm 05 Holes
192-06	37,5 mm 05 Holes
192-07	40,0 mm 05 Holes
192-08	42,5 mm 05 Holes
192-09	45,0 mm 05 Holes
192-10	47,5 mm 05 Holes
192-11	52,5 mm 06 Holes
192-12	57,5 mm 07 Holes
192-13	62,5 mm 07 Holes
192-14	67,5 mm 07 Holes

Sophira Screws	
192-26	Ø3,5 x 13 mm
192-27	Ø3,5 x 15 mm
192-28	Ø3,5 x 17 mm
192-29	Ø4,0 x 13 mm
192-30	Ø4,0 x 15 mm
192-31	Ø4,0 x 17 mm

ADVANTAGES AND CHARACTERISTICS

1. Low-profile (1.7 mm) anatomic design for perfect adjust to the vertebra curvature and minimizes risks of soft tissue irritation;
2. In-plate locking system provides safety for patient and prevent screws migration;
3. Holes for temporary fixation facilitate the procedure, reducing surgical time and,
4. Ø3.5 and Ø4.0 mm (emergency) Screws, with 13.0, 15.0 and 17.0 mm length.

Made of titanium alloy (ti-6al-4v) conform ASTMF136



OCCIFIX II

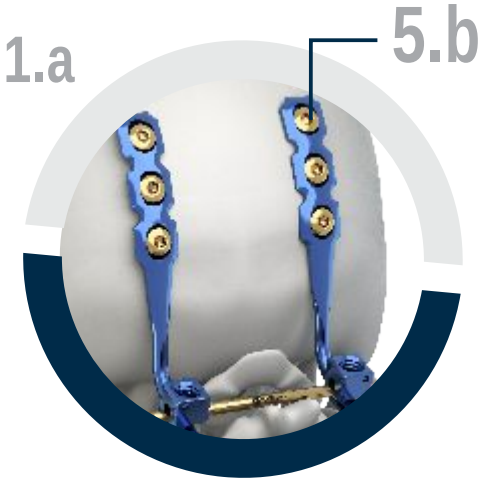
Occipitocervical Fixation System for cervical posterior fixation

OCCIFIX II was developed for posterior fixation of the cervical spine, from occipital to high thoracic spine (T2), with a variety of treatment possibilities.

ADVANTAGES AND CHARACTERISTICS

1. Three different options for occipital fixation: rod/plate (a); 1 and 2 holes plates (b), and central plates (c);
2. Ø3,5 mm longitudinal rods (a), and long rods with dual diameter for cervicothoracic fixation (b);
3. Lamina hooks with three size options, left and right;
4. Connectors with three angulation options (neutral, 15º and 35º), allow laterality and convergence ajustment of the lateral mass screws;
5. Polyaxial screws for lateral mass (a) and cancellous screws (b) which can be implanted on lateral mass or in the occipital;
6. Lateral connector allows transverse extension for longitudinal rod;
7. The same locking cap used for all system components and,
8. Crosslink hooks enhances fixation rigidity and biomechanical stability.

Made of titanium alloy (ti-6al-4v) conform ASTMF136



Occifix II Ø3.5 Polyaxial Micro Screws	
134-350-12	12 mm
134-350-14	14 mm
134-350-16	16 mm
134-350-18	18 mm
134-350-22	22 mm
134-350-26	26 mm
134-350-30	30 mm
134-350-35	35 mm
134-350-40	40 mm
134-350-45	45 mm
134-350-50	50 mm

Occifix II Ø4.0 Polyaxial Screw	
134-04-12	12 mm
134-04-14	14 mm
134-04-16	16 mm
134-04-18	18 mm
134-04-20	20 mm
134-04-22	22 mm
134-04-24	24 mm
134-04-26	26 mm
134-04-28	28 mm
134-04-30	30 mm
134-04-32	32 mm
134-04-34	34 mm
134-04-36	36 mm
134-04-38	38 mm
134-04-40	40 mm
134-04-45	45 mm
134-04-50	50 mm

Ø3.5 Longitudinal Rod	
134-123	60 mm
134-124	70 mm
134-21	80 mm
134-22	120 mm
134-23	240 mm
134-100	300 mm

Rod	
134-86	Ø3.5 / Ø4.5 x 300 mm
134-87	Ø3.5 / Ø4.5 x 500 mm
134-88	Ø3.5 / Ø6.0 x 300 mm
134-89	Ø3.5 / Ø6.0 x 500 mm

Locking Cap
134-80

Occifix II Hook	
134-243	Right Large
134-244	Left Large
134-233	Right Medium
134-234	Left Medium
134-209	Right Small
134-210	Left Small

Occifix II Lateral Connector	
134-10	10 mm
134-20	20 mm

Occifix II Connectors	
134-201	Neutral
134-202	Right 15° Anguled
134-203	Left 15°Anguled
134-204	Right 35°Anguled
134-205	Left 35°Anguled

Occifix II Ø3.5 Cancellous Screw	
134-35-06	06 mm
134-35-08	08 mm
134-35-10	10 mm
134-35-12	12 mm
134-35-14	14 mm
134-35-16	16 mm
134-35-18	18 mm
134-35-20	20 mm
134-35-24	24 mm
134-35-28	28 mm
134-35-35	35 mm
134-35-40	40 mm

Occifix Rod/Plate	
134-69	2 Holes
134-70	2 Holes Long
134-41	3 Holes
134-42	3 Holes Long
134-06	4 Holes
134-06L	4 Holes Long

Occifix II Occipital Plate	
134-05-S	1 Hole
134-05-D	2 Holes

Occifix II Occipital Central Plate	
134-05-50-M	3 Holes 50 mm
134-05-60-M	3 Holes 60 mm

Occifix II Occipital Central Plate	
134-05-50-L	4 Holes 50 mm
134-05-60-L	4 Holes 60 mm

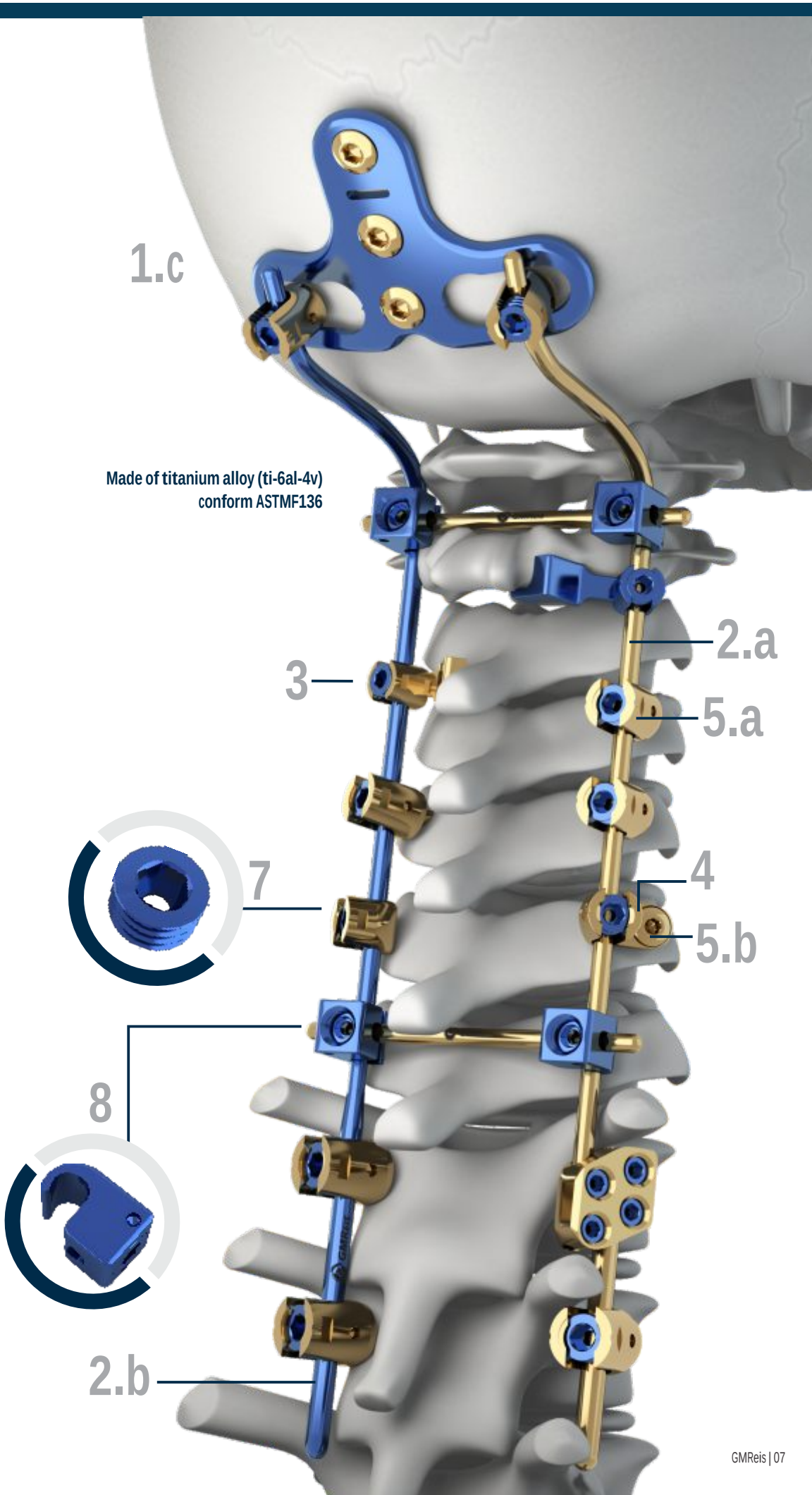
Occifix II Occiptal Screws for Central Plate	
134-45-04	Ø4.5 x 4 mm
134-45-06	Ø4.5 x 6 mm
134-45-08	Ø4.5 x 8 mm
134-45-10	Ø4.5 x 10 mm
134-45-12	Ø4.5 x 12 mm
134-45-14	Ø4.5 x 14 mm
134-45-16	Ø4.5 x 16 mm
134-45-18	Ø4.5 x 18 mm
134-50-04	Ø5.0 x 4 mm
134-50-06	Ø5.0 x 6 mm
134-50-08	Ø5.0 x 8 mm
134-50-10	Ø5.0 x 10 mm
134-50-12	Ø5.0 x 12 mm
134-50-14	Ø5.0 x 14 mm
134-50-16	Ø5.0 x 16 mm
134-50-18	Ø5.0 x 18 mm

Occifix II Crosslink Hook
134-216

Ø2.5 Transversal Rod	
134-24	40 mm
134-25	50 mm
134-26	60 mm
134-27	70 mm

OCCIFIX Rod Connector	
134-276	3.5-3.5 mm Left
134-277	3.5-3.5 mm Right

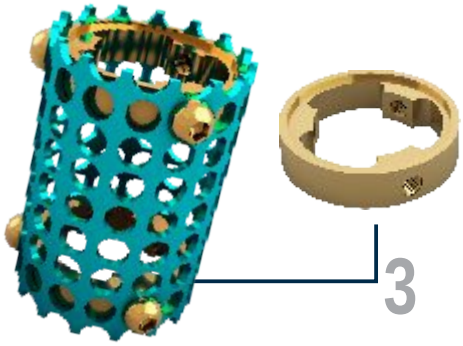
OCCIFIX Rod/Rod Connector	
134-278	3.5-4.5 mm Left
134-279	3.5-4.5 mm Right
134-228	3.5-6.0 Left
134-229	3.5-6.0 Right



ROM Mesh

Titanium vertebral spacer developed for cervical, thoracic and lumbar corpectomy procedures

ROM Mesh was developed to be used in corpectomy procedures on cervical, thoracic and lumbar spine levels to replace and to restore the height of a collapsed vertebral body. ROM Mesh is indicated for the treatment of infection, tumor and comminuted fractures.



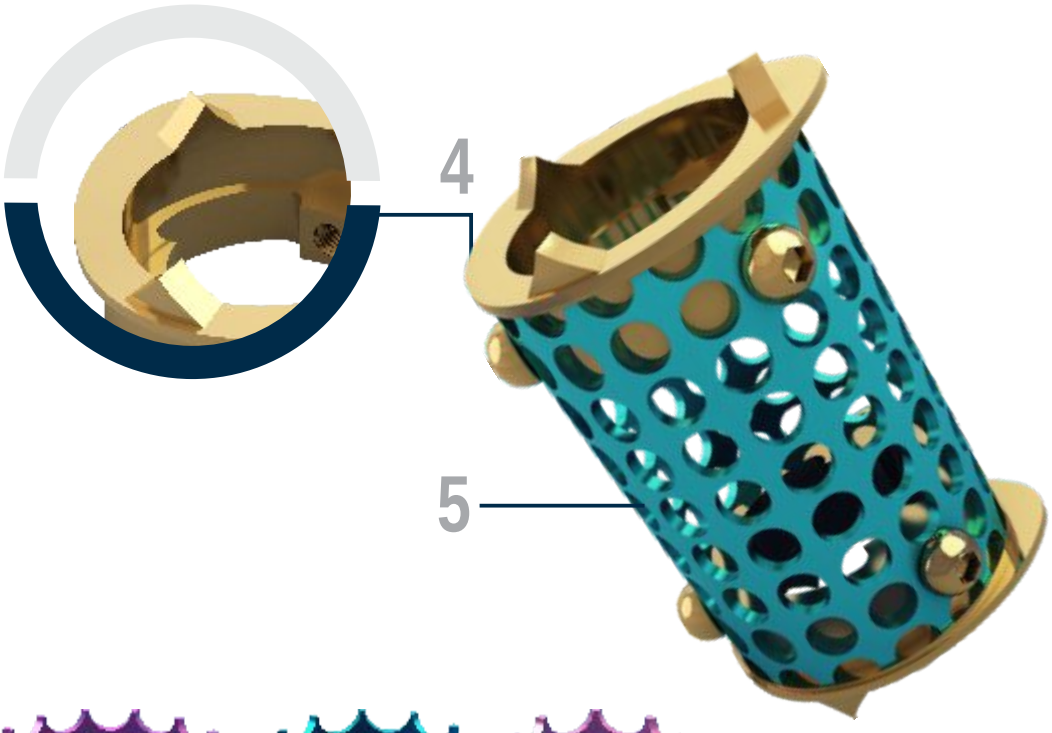
ADVANTAGES AND CHARACTERISTICS

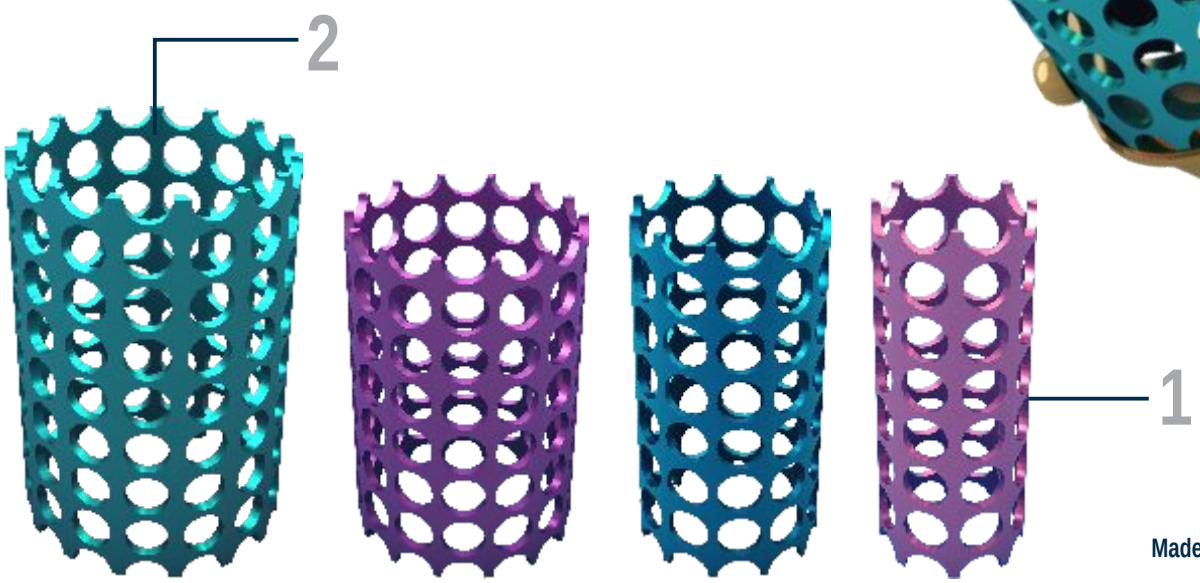
1. Four diameter options to fit on cervical, thoracic or lumbar spine;
2. Two length options and the possibility to shorten the spacer height in according to each patient needs, by cutting the desired size;
3. **ROM Rings** are placed on the spacer extremities to increase biomechanical resistance and reduce risks of implant insertion into the vertebral surfaces;
4. The 8º lordosis **ROM Ring** is used with Ø25 mm spacer to adapt the implant to the curvature of the lumbar spine and,
5. Large space for bone graft to promote intervertebral fusion.

ROM Mesh	
119-12-30-A	Ø12 x 30 mm
119-12-60-A	Ø12 x 60 mm
119-16-30-A	Ø16 x 30 mm
119-16-70-A	Ø16 x 70 mm
119-20-30-A	Ø19 x 30 mm
119-20-70-A	Ø19 x 70 mm
119-25-30-A	Ø25 x 30 mm
119-25-70-A	Ø25 x 70 mm

ROM Ring	
119-16-01-A	Ø16 x 16 mm
119-20-01-A	Ø19 x 20 mm
119-25-01-A	Ø25 x 30 mm
119-25-100-A	Ø25 mm 8º Lordosis

ROM Ring Screws
119-100

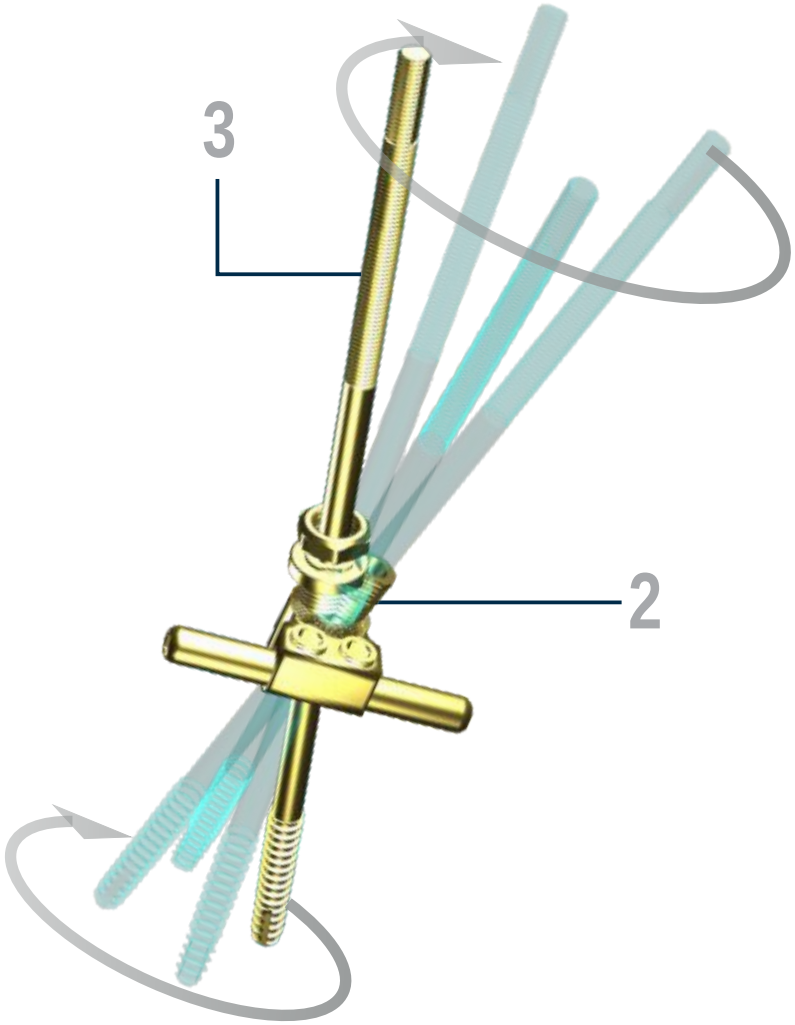




Made of titanium alloy (ti-6al-4v) conform ASTMF136

EXACTO

Pedicular Internal Fixation System With Polyaxial Schanz Pins



EXACTO fixation system was developed for treatment of pathologies of thoracic, lumbar and sacral spine. EXACTO is specifically indicated for procedures of fracture and spondylolisthesis correction.

Made of titanium alloy (ti-6al-4v) conform ASTMF136

ADVANTAGES AND CHARACTERISTICS

1. The Schanz Pins fixation system allows using the pins upper extension to fracture reduction;
2. The polyaxial connectors facilitates the system setting-up and helps to restore the anatomy of fractured vertebra and treated segment;
3. The Spondylo Pedicle Pins allow spondylolisthesis correction;
4. Connectors developed for using in the caudal extremity of the rods in sacral spine fixation;
5. The Crosslink hook increases fixation hardness and biomechanical stability and,
6. After the final locking, the pins are cutted off to reduce the system profile.

Crosslink Hook Pedimax II
112-44

Exacto Connectors	
150-01	Standard
150-30	Sacral

Pedicular Pins	
150-21	Ø5.0 mm
150-20	Ø6.2 mm
150-22	Ø7.0 mm

Spondylo Pedicular Pins	
150-03	Ø5.0 mm
150-02	Ø6.2 mm
150-04	Ø7.0 mm

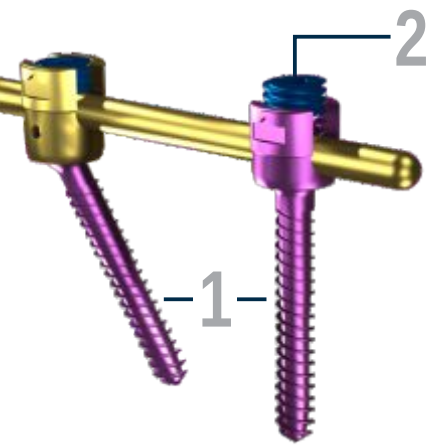
Ø6.0 mm Rod	
112-19	50 mm
112-21	70 mm
112-23	90 mm
112-24	110 mm
112-25	130 mm
112-26	150 mm

Ø3.2 mm Transversal Rod	
112-46	Ø3.2 x 60 mm
112-47	Ø3.2 x 80 mm

PEDIMAX II

Titanium Pedicle Screws System for thoracic, lumbar and sacral spine posterior arthrodesis

PEDIMAX II was developed for thoracic, lumbar and sacral spine posterior arthrodesis, for treating spinal pathologies: disc degenerative diseases, spondylolisthesis, trauma, tumor, stenosis, pseudarthrosis and deformities.

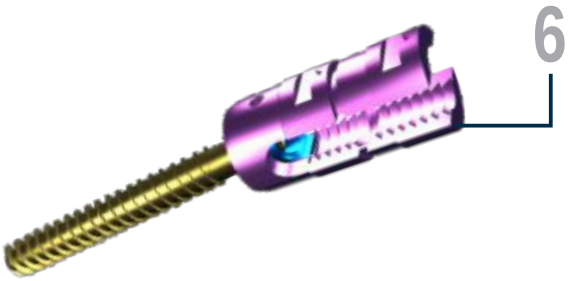


PEDIMAX II | Percutaneous

Cannulated Pedicle Polyaxial Screws for minimally invasive technique

PEDIMAX II | Spondylolisthesis

Pedicle Polyaxial Screws with extended tabs for spondylolisthesis reduction

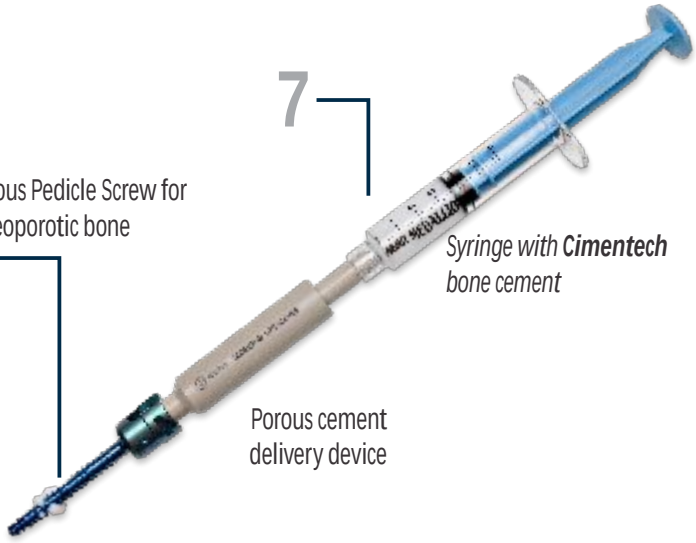


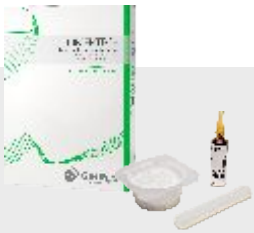
PEDIMAX II | POROUS

Cannulated and perforated pedicle screw for bone cement injection.

This product is indicated in cases of augmentation procedure in osteoporotic patients treatment

Porous Pedicle Screw for osteoporotic bone



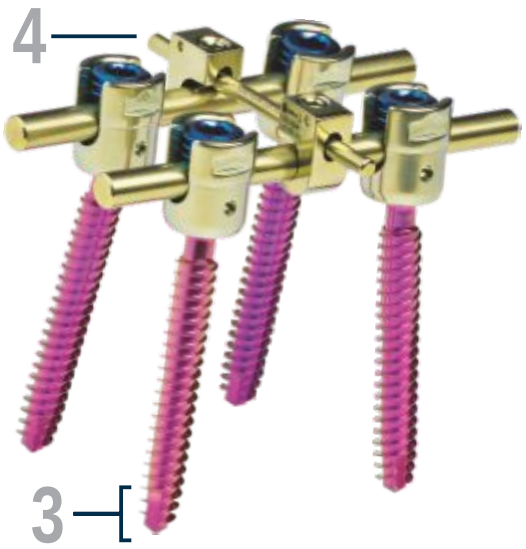


*GMReis indicates **Cimentech** bone cement (page 17) to be used with Porous*.*
**Product sold separately.*

Made of titanium alloy (ti-6al-4v) conform ASTMF136

ADVANTAGES AND CHARACTERISTICS

1. The set comes with polyaxial and monoaxial screws with different diameters and lengths to supply any surgical needs;
2. Internal locking cap provides higher stability to system fixation;
3. Self-tapping screws that reduce surgery time;
4. The Crosslink hook increases fixation hardness and biomechanical stability;
5. Cannulated polyaxial screws for percutaneous implantation;
6. Polyaxial screws with extended tabs, solid shaft and cannulated, for spondylolisthesis reduction and,
7. Polyaxial screws, cannulated with distal hole shaft and delivery device to bone cement augmentation for treatment of osteoporotic patients.



Pedimax II Crosslink Hook
112-44

Pedimax II Locking Cap
176-10

Pedimax II Percutaneous Polyaxial Pedicle Screw	
152-55-30	Ø5.5 x 30 mm
152-55-35	Ø5.5 x 35 mm
152-55-40	Ø5.5 x 40 mm
152-55-45	Ø5.5 x 45 mm
152-62-35	Ø6.2 x 35 mm
152-62-40	Ø6.2 x 40 mm
152-62-45	Ø6.2 x 45 mm
152-62-50	Ø6.2 x 50 mm
152-70-30	Ø7.0 x 30 mm
152-70-35	Ø7.0 x 35 mm
152-70-40	Ø7.0 x 40 mm
152-70-45	Ø7.0 x 45 mm
152-70-50	Ø7.0 x 50 mm

Pedimax II Spondylolisthesis Polyaxial Pedicle Screw	
175-55-30	Ø5.5 x 30 mm
175-55-35	Ø5.5 x 35 mm
175-55-40	Ø5.5 x 40 mm
175-55-45	Ø5.5 x 45 mm
175-55-50	Ø5.5 x 50 mm
175-62-35	Ø6.2 x 35 mm
175-62-40	Ø6.2 x 40 mm
175-62-45	Ø6.2 x 45 mm
175-62-50	Ø6.2 x 50 mm
175-70-30	Ø7.0 x 30 mm
175-70-35	Ø7.0 x 35 mm
175-70-40	Ø7.0 x 40 mm
175-70-45	Ø7.0 x 45 mm
175-70-50	Ø7.0 x 50 mm

Porous - Single Use Cement Delivery Device
221-102

Pedimax II Monoaxial Pedicle Screw	
176-10-30	Ø5.5 x 30 mm
176-10-35	Ø5.5 x 35 mm
176-10-40	Ø5.5 x 40 mm
176-10-45	Ø5.5 x 45 mm
176-10-50	Ø5.5 x 50 mm
176-11-30	Ø6.2 x 30 mm
176-11-35	Ø6.2 x 35 mm
176-11-40	Ø6.2 x 40 mm
176-11-45	Ø6.2 x 45 mm
176-11-50	Ø6.2 x 50 mm
176-11-55	Ø6.2 x 55 mm
176-11-60	Ø6.2 x 60 mm
176-12-30	Ø7.0 x 30 mm
176-12-35	Ø7.0 x 35 mm
176-12-40	Ø7.0 x 40 mm
176-12-45	Ø7.0 x 45 mm
176-12-50	Ø7.0 x 50 mm
176-12-55	Ø7.0 x 55 mm
176-12-60	Ø7.0 x 60 mm
176-13-40	Ø8.0 x 40 mm
176-13-45	Ø8.0 x 45 mm

Pedimax II Polyaxial Pedicle Screw	
176-45-20	Ø4.5 x 20 mm
176-45-25	Ø4.5 x 25 mm
176-45-30	Ø4.5 x 30 mm
176-45-35	Ø4.5 x 35 mm
176-45-40	Ø4.5 x 40 mm
176-45-45	Ø4.5 x 45 mm
176-50-30	Ø5.5 x 30 mm
176-50-35	Ø5.5 x 35 mm
176-50-40	Ø5.5 x 40 mm
176-50-45	Ø5.5 x 45 mm
176-50-50	Ø5.5 x 50 mm
176-50-55	Ø5.5 x 55 mm
176-50-60	Ø5.5 x 60 mm
176-60-30	Ø6.2 x 30 mm
176-60-35	Ø6.2 x 35 mm
176-60-40	Ø6.2 x 40 mm
176-60-45	Ø6.2 x 45 mm
176-60-50	Ø6.2 x 50 mm
176-60-55	Ø6.2 x 55 mm
176-60-60	Ø6.2 x 60 mm
176-70-30	Ø7.0 x 30 mm
176-70-35	Ø7.0 x 35 mm
176-70-40	Ø7.0 x 40 mm
176-70-45	Ø7.0 x 45 mm
176-70-50	Ø7.0 x 50 mm
176-70-55	Ø7.0 x 55 mm
176-70-60	Ø7.0 x 60 mm

Ø3.2 Transversal Rod	
112-46	60.0 mm
112-47	80.0 mm
112-48	100.0 mm

Ø6.0 Percutaneous Rod	
152-75	50.0 mm
152-76	55.0 mm
152-88	80.0 mm
152-89	90.0 mm

Pedimax II Spondylolisthesis Percutaneous Polyaxial Pedicle Screw	
152-55-30-E	Ø5.5 x 30 mm
152-55-35-E	Ø5.5 x 35 mm
152-55-40-E	Ø5.5 x 40 mm
152-55-45-E	Ø5.5 x 45 mm
152-62-35-E	Ø6.2 x 35 mm
152-62-40-E	Ø6.2 x 40 mm
152-62-45-E	Ø6.2 x 45 mm
152-62-50-E	Ø6.2 x 50 mm
152-70-30-E	Ø7.0 x 30 mm
152-70-35-E	Ø7.0 x 35 mm
152-70-40-E	Ø7.0 x 40 mm
152-70-45-E	Ø7.0 x 45 mm
152-70-50-E	Ø7.0 x 50 mm

Pedimax II Porous Polyaxial Pedicle Screw	
221-55-30	Ø5.5 x 30 mm
221-55-35	Ø5.5 x 35 mm
221-55-40	Ø5.5 x 40 mm
221-55-45	Ø5.5 x 45 mm
221-55-50	Ø5.5 x 50 mm
221-55-55	Ø5.5 x 55 mm
221-55-60	Ø5.5 x 60 mm
221-62-35	Ø6.2 x 35 mm
221-62-40	Ø6.2 x 40 mm
221-62-45	Ø6.2 x 45 mm
221-62-50	Ø6.2 x 50 mm
221-70-40	Ø7.0 x 40 mm
221-70-45	Ø7.0 x 45 mm
221-70-50	Ø7.0 x 50 mm

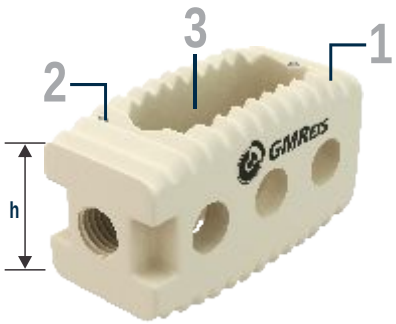
Ø6.0 Longitudinal Rod	
112-18	40.0 mm
112-19	50.0 mm
112-20	60.0 mm
112-21	70.0 mm
112-22	80.0 mm
112-23	90.0 mm
112-122	100.0 mm
112-24	110.0 mm
112-25	130.0 mm
112-26	150.0 mm
112-27	180.0 mm
112-28	210.0 mm
112-85	380.0 mm
112-86	450.0 mm

Rod/Rod Connector	
134-228	Ø3.5 / 6.0 mm Left
134-229	Ø3.5 / 6.0 mm Right
134-97	Ø6.0 / 4.5 mm Left
134-98	Ø6.0 / 4.5 mm Right
134-06-06-E	Ø6.0 / 6.0 mm Left
134-06-06-D	Ø6.0 / 6.0 mm Right

PLIFIX PEEK

Posterior Lumbar Interbody Fusion Spacer

Plifix PEEK	
COD	h
179-01P	9 mm
179-02P	10 mm
179-03P	11 mm
179-04P	12 mm
179-05P	13 mm
179-06P	14 mm
179-07P	15 mm



ADVANTAGES AND CHARACTERISTICS

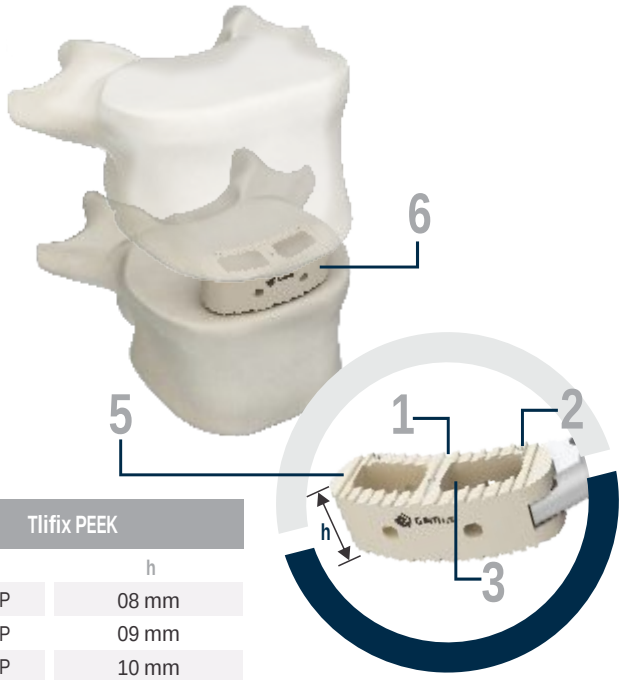
1. "Toothed" surfaces provide resistance to implant migration;
2. The titanium markers allow to assess the exact positioning of the implant by x-ray visualization;
3. Wide central canal for bone graft;
4. The set comes with seven implants height options to allow a better adaptation on patient anatomy and,
5. Implantation by posterior approach.

The **Plifix PEEK** and **Tlifix PEEK** spacers were developed for discectomy and lumbar fusion on spine, to restore intervertebral height and support axial weight on treated level.

Made of PEEK conform ASTMF2026

TLIFIX PEEK

Transforaminal Lumbar Interbody Fusion Spacer



Tlifix PEEK	
COD	h
187-01P	08 mm
187-02P	09 mm
187-03P	10 mm
187-04P	11 mm
187-05P	12 mm
187-06P	13 mm

ADVANTAGES AND CHARACTERISTICS

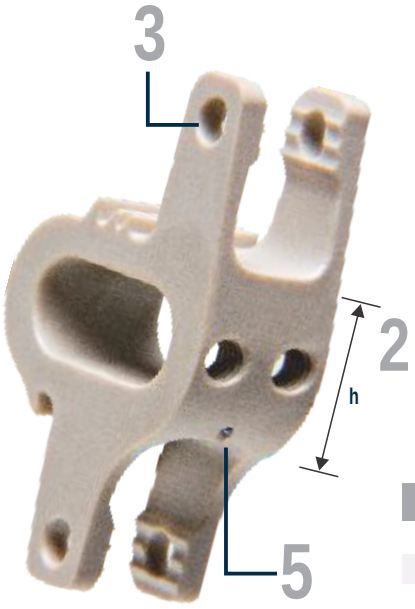
1. "Toothed" surfaces provide resistance to implant migration;
2. The titanium markers allow to assess the exact implant positioning, by x-ray visualization;
3. Wide central canals for bone graft;
4. The set comes with six implants height options to allow a better adaptation on patient anatomy;
5. Bullet nose for an easier implant insertion;
6. Anatomical curvature and lordotic angulation to fit perfectly on the intervertebral space and having maximum contact between the implant and the vertebral surface and,
7. Implantation by transforaminal approach.

DYNAFIX PEEK

PEEK Interspinous Space Spacer/Plate

Dynafix PEEK was developed for lumbosacral spine stabilization/ decompression procedures, to restore and maintain its biomechanical properties. The device is placed in interspinous space, partially restrincting mobility on treated level and reducing tension on posterior joints.

Made of PEEK conform ASTMF2026



Dynafix PEEK	
COD	h
162-07-P	08 mm
162-01-P	10 mm
162-02-P	12 mm
162-03-P	14 mm

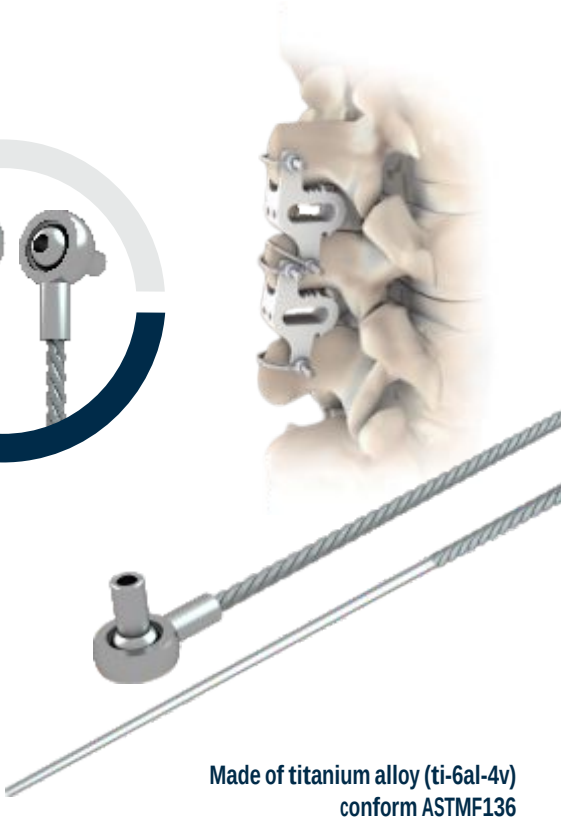
Gama Cable Ø1.1 mm
130-30

ADVANTAGES AND CHARACTERISTICS

1. The interspinous spacer extends the segmental extension on intervertebral foramen, treating radicular spinal stenosis;
2. The set comes with four size options and the spacer has anatomical shape to allow better placement on interspinous process;
3. The lateral wings are used for spacer fixation on spinous process, implant is designed to allow multilevel fixation;
4. The implants shape and raw matter provide physiological alike elasticity, improves implant flexibility, weight distribution and impact absorption and,
5. The titanium identification pin allows to assess the exact positioning of the implant by x-ray visualization.

GAMA CABLE

Titanium microfilament cerclage wire



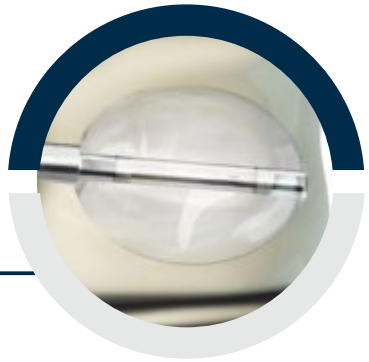
1. **Gama Cable** is indicated to fix Dynafix PEEK Interbody Spacer in the spinous process;
2. The end of the cable (100 mm) is solid and can be shaped for easier cerclage;
3. **Gama Cable** is 420 mm length, has high resistance and excellent biocompatibility and,
4. GMReis **Gama Cable** set has its own instrumental devices for tensioning, locking and cuting off the cable excess.

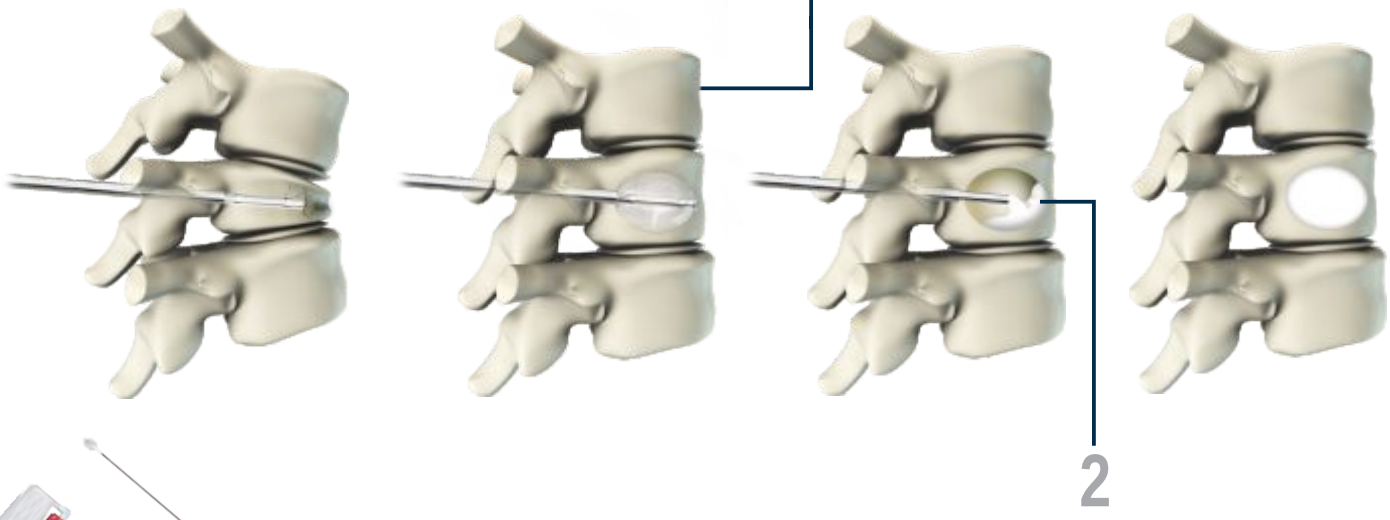
Made of titanium alloy (ti-6al-4v) conform ASTMF136

RESTORE SET

Sterile instrumental set for kyphoplasty procedures

RESTORE is a minimally invasive procedure designed to repair vertebral compression fractures, normally caused by osteoporosis or tumor.





ADVANTAGES AND CHARACTERISTICS

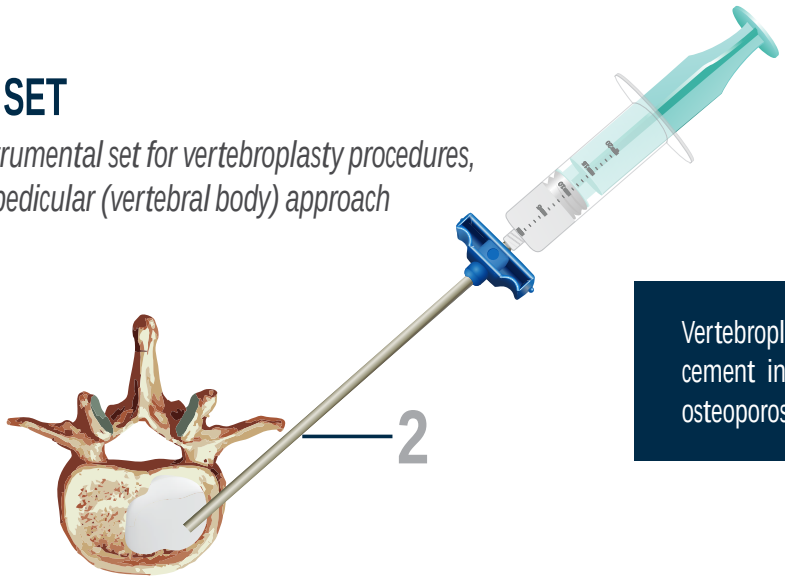
1. RESTORE utilizes orthopedic balloons for anatomical reduction of fractured vertebra, restoring vertebral body height and correcting angular deformity;
2. The cavities formed by the balloons, allow a safe and controlled filling of bone cement , under low-pressure, and in pre-defined quantity, reduce risk of leakage;
3. The balloons resist up to 300 psi on first use, and the pressure growth can be monitored on a digital display;
4. The balloons come in three length options: 10 , 15 and 20 mm and,
5. Full instrumental set for simultaneous (bilateral) kyphoplasty with two balloons, through the fractured vertebra pedicles.

Restore Set	
CIF-10RET	10 mm
CIF-15RET	15 mm
CIF-20RET	20 mm

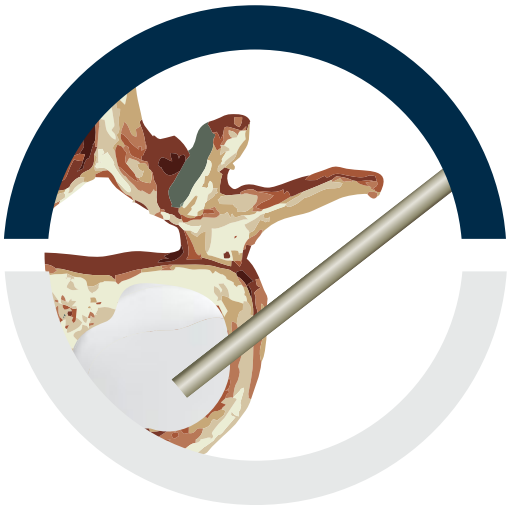
*GMReis indicates **Cimentech** bone cement (page 17) to be used with the Restore Set*.*
**Product sold separately.*

BPS-A SET

Sterile instrumental set for vertebroplasty procedures, with parapedicular (vertebral body) approach



Vertebroplasty procedures consist in a percutaneous injection of bone cement into the vertebral body for treating fractures caused by: osteoporosis, tumor and trauma.



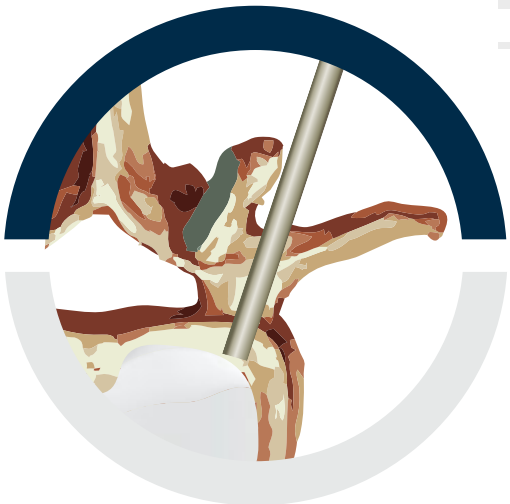
ADVANTAGES AND CHARACTERISTICS

1. Simple, safe and efficient instrumental set that comes with two approach options: transpedicular and parapedicular (vertebral body); for adequating the procedure and the surgical planning to the fracture specifications;
2. The larger diameter cannula from **BPS-A set** allows to make bone biopsy and,
3. The **BPS-P set**, with transpedicular approach, can be used to inject bone cement into osteoporotic vertebrae in order to enhance fixation with pedicular screws.

Percutaneous Single-Use Set	
151-20	BPS-A Set
151-50	BPS-P Set

BPS-P SET

Sterile instrumental set for vertebroplasty procedures, with transpedicular approach



*GMReis indicates **Cimentech** bone cement (page 17) to be used with BPS-A and BPS-P.*
**Product sold separately.*

Sponjosa

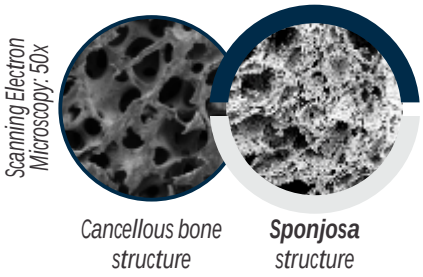
Synthetic bone graft made of beta-tricalcium phosphate (ß-TCP)

Biactive, biocompatible, biodegradable, radiopaque, osteoconductive and bioresorbable.

***Sponjosa** is indicated to fulfill bone cavities or bone deformities caused by trauma or surgical intervention.*

ANVISA/MS: 10247700020

Sponjosa	
167-01	Grain 10 cc
167-02	Grain 20 cc
167-24	Cunha 7 mm
167-27	Cunha 10 mm
167-29	Cunha 12 mm



Cancellous bone structure

***Sponjosa** structure*

New Osteo

Synthetic bone graft made of calcium sulfate.

Non-toxic, biocompatible, biodegradable, radiopaque, osteoconductive and bioresorbable.

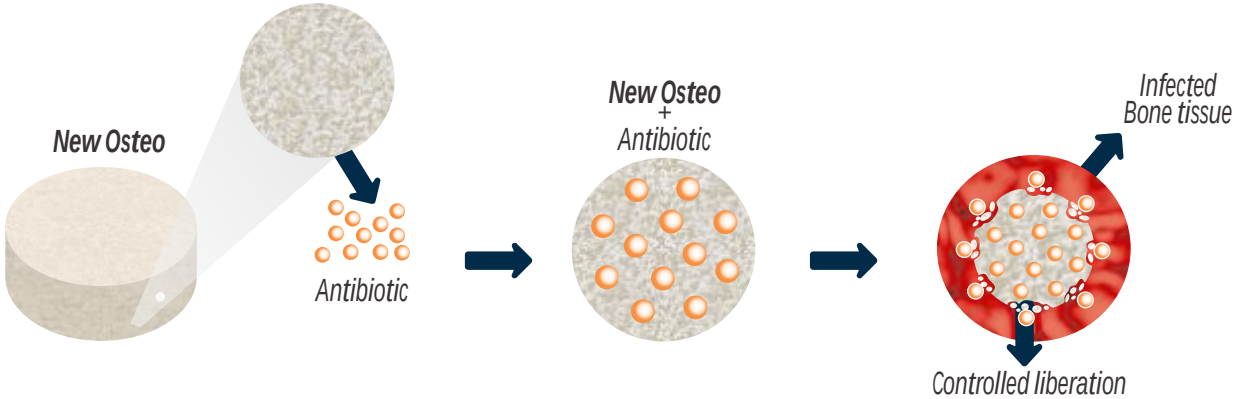
ANVISA/MS: 10247700020

New Osteo's á - hemihydrate crystalline structure

New Osteo	
149-01-05	Dust 5 cc
149-01-10	Dust 10 cc
149-01-20	Dust 20 cc
149-05-05	Grain 5 cc
149-05-10	Grain 10 cc
149-05-20	Grain 20 cc

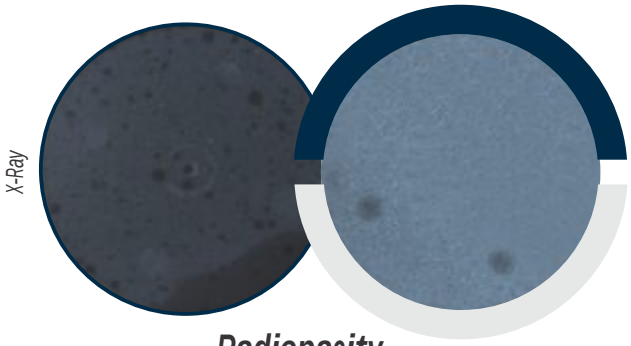
INFECTION TREATMENT

***New Osteo** can be used with antibiotics to control and prevent local osteomyelitis.*



Cimentech

Polymerizable radiopaque bone cement, non-resorbable, made of acrylic compounds and consisting of a liquid component (methyl methacrylate - MMA) and a powder component (Polymethyl Methacrylate – PMMA + Barium Sulfate – $BaSO_4$).

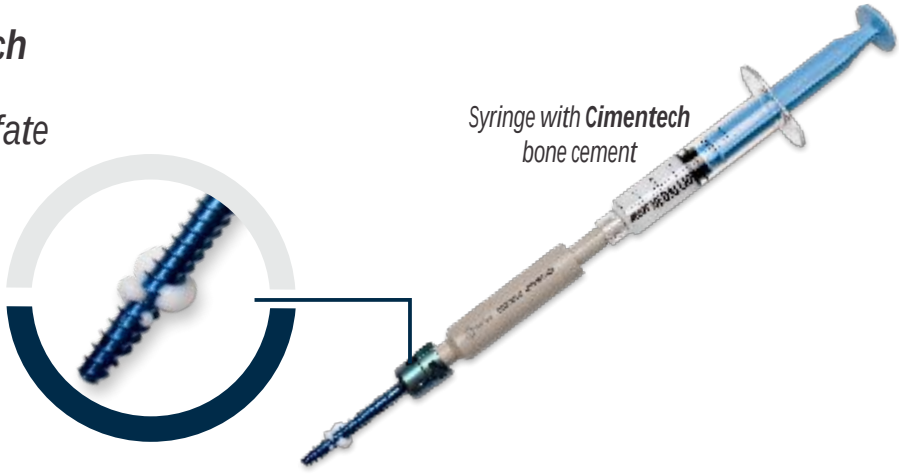


Radiopacity

Another bone cement
10%
Barium sulfate

Cimentech
20%
Barium sulfate

Cimentech is indicated for these procedures: vertebroplasty, kyphoplasty and as an anchor for restoring mechanical conditions in osteoporotic bones, using a specific implant.



*Syringe with **Cimentech** bone cement*

Porous Pedicle Screw for osteoporotic bone

ADVANTAGES AND CHARACTERISTICS

1. **Cimentech** is developed in according to ABNT NBR ISO 5833;
2. **Cimentech** has initially low viscosity (what makes syringe charge easier), high intrusion (fundamental for its fixation on bone tissue) and higher radiopacity than other bone cements and,
3. The bone cement polymerization occurs progressively between 3 and 15 minutes depending on the enviroment conditions.

Cimentech
250-01

GMREIS

Quality for Life

GMREIS

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