

# ORTHOPAEDICS & TRAUMATOLOGY

GENERAL CATALOG - 2020



**GMREIS**

*Qualidade para Vida*

*Calidad para Vida Quality for life الجودة للحياة*





30 years ago GMReis was founded by its current CEO, Eng. Geraldo Marins dos Reis Jr., based technically and scientifically on a product developed during his master's degree in biomedical engineering at State University of Campinas, through a project approved by CNPQ.

Since its foundation GMReis has focused on its core values for building a solid company and recognized worldwide for its quality, constantly investing in: technology, human resources and medical education to continually maintain its commitment to its brand.

GMReis has been a pioneer in Brazil and Latin America in the development of innovative orthopedic implants, with the main goal of providing patients Quality for Life.

Today GMReis maintains two quality systems in place, GMP-ANVISA/RDC 16 and ISO 13485/2016, to ensure that its medical products are designed and manufactured with highly qualified production processes control to ensure that its products are effective, safe and meet the expectations and needs of its customers.

The company holds over 100 registered products in Anvisa - as well as FDA-USA and Invima-Colombia registrations.

GMReis' product portfolio is classified in the following categories:

- Sports Medicine,
- Variable angle locking plates,
- Cannulated screws,
- Intramedullary nails,
- External fixators for traumatology and limb reconstruction,
- Foot & Ankle,
- Hand & Wrist,
- Orthopediatrics,
- Spine,
- Battery Power Tools system and;
- Biologicals.

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



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## Fastlock - Knotless PEEK Anchor To Perform Internal Ligament Support - ILS

The GMReis Fastlock anchors were developed for procedures of Internal Ligament Support - ILS, through the implantation of fully threaded knotless PEEK anchors with high resistance surgical wires and surgical suture tapes, providing safety and effectiveness to the treatment.



### EARLY RETURN TO SPORT WITH ILS<sup>12</sup>

Accelerated rehabilitation for ankle instability<sup>12</sup>



STANDARD

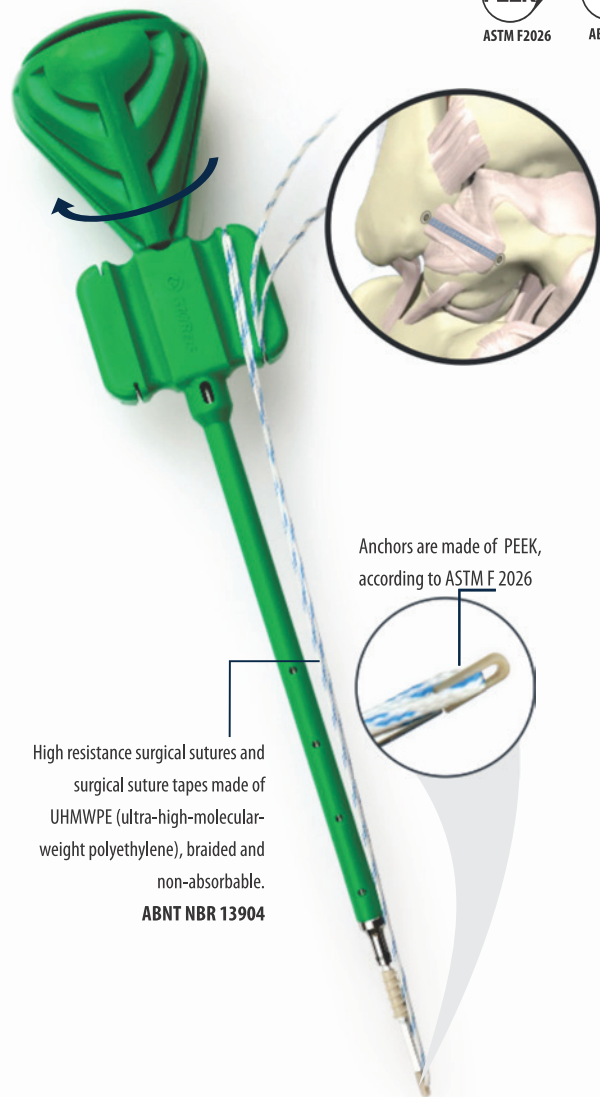


ILS - INTERNAL  
LIGAMENT SUPPORT

<sup>1</sup> Coetzee, J. C., Ellington, J. K., Ronan, J. A., & Stone, R. M. (2018). Functional Results of Open Broström Ankle Ligament Repair Augmented With a Suture Tape. *Foot & Ankle International*, 39(3), 304–310. <https://doi.org/10.1177/1071100717742363>

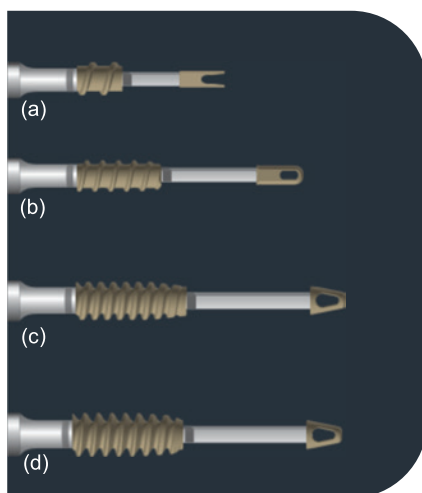
<sup>2</sup> White, W.J., McCollum, G.A. & Calder, J.D.F. Return to sport following acute lateral ligament repair of the ankle in professional athletes. *Knee Surg Sports Traumatol Arthrosc* (2016) 24: 1124.

<https://doi.org/10.1007/s00167-015-3815-1>



Anchors are made of PEEK, according to ASTM F 2026

High resistance surgical sutures and surgical suture tapes made of UHMWPE (ultra-high-molecular-weight polyethylene), braided and non-absorbable.  
**ABNT NBR 13904**



a) Ø 3.5x4.0/8.5mm	open eyelet	COD 320-35085-SA
b) Ø 3.5x10.1/15.8mm	closed eyelet w/ blue and white suture tape	COD 320-351580-PE1
	closed eyelet w/ black and white suture tape	COD 320-351580-PE2
c) Ø 4.75x15.0/19.1mm	closed eyelet w/ #2 black and white wire and blue and white suture tape	COD 320-475191-PE4
	closed eyelet w/ #2 blue and white wire and black and white suture tape	COD 320-475191-PE5
d) Ø 5.5x15.0/19.1mm	closed eyelet w/ #2 blue and white wire and black and white suture tape	COD 320-55191-PE3
	closed eyelet w/ #2 black and white wire and black and white suture tape	COD 320-55191-PE4

## GMReis Titanium Anchors

GMReis titanium anchors are designed with a fully threaded length to create maximum cortical purchase in smaller bones. Using an internal drive mechanism and suture eyelet, these anchors provides a contactless with soft tissue avoiding tissue irritation.

Available sizes:

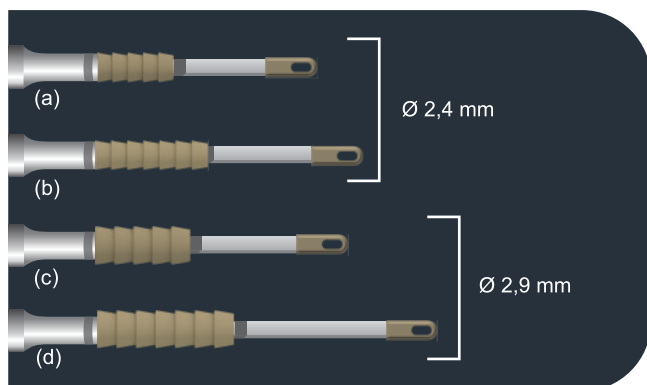
Ø 1.7 mm  
Ø 2.2 mm  
Ø 2.7 mm  
Ø 3.5 mm  
Ø 5.0 mm



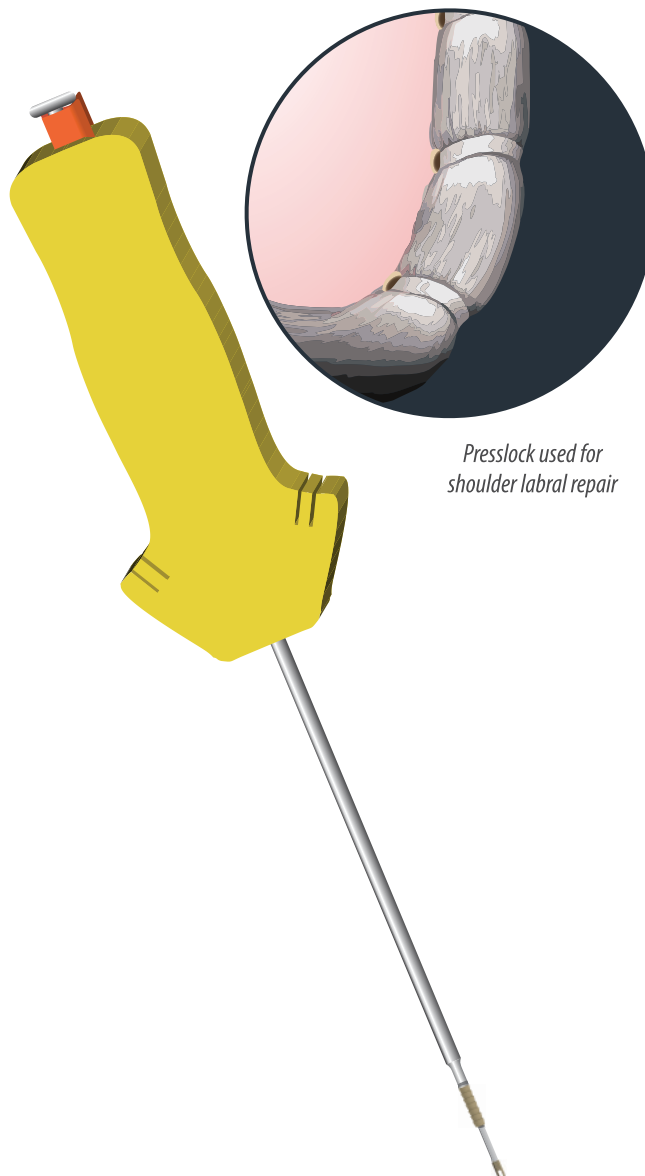


## Presslock - Knotless PEEK Anchor

Developed to provide safe repair of soft tissue lesions in: shoulder, wrist, ankle, elbow, hip and knee; reducing surgery time while eliminating arthroscopic knots and any potential damage it may cause.



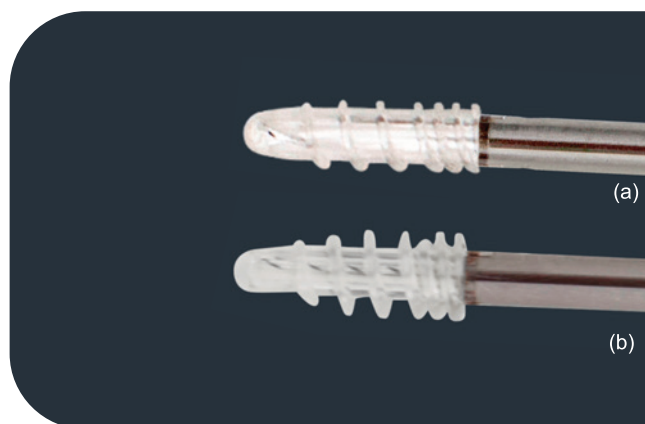
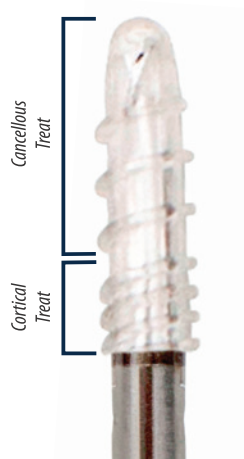
a) Ø 2.4 x 6.8 / 11.3 mm closed eyelet Indication: Thumb UCL repair / reconstruction Arthroscopic procedures	CÓD 320-24113
b) Ø 2.4 x 9.5 / 14.0 mm closed eyelet Indication: SLAP repair; Bankart lesion repair Arthroscopic procedures	CÓD 320-24140
c) Ø 2.9 x 7.5 / 12.5 mm closed eyelet	CÓD 320-29125
d) Ø 2.9 x 10.5 / 15.5 mm closed eyelet	CÓD 320-29155



Presslock used for shoulder labral repair

## Bioanchor Ø5.0 and Ø6.5 mm

Bioanchor GMReis are PLLA bioresorbable anchors with high strength suture strand, made of UHMWPE – Ultra High Molecular Weight Polyethylene.



a) Bioanchor Ø 5.0 x 17.0 mm	COD 300-5017
b) Bioanchor Ø 6.5 x 17.0 mm	COD 300-6517



## Expert - Flexible Joint Fixation System

The Expert - Flexible Joint Fixation System offers adjustable fixation by button and titanium plate with braided and non-absorbable UHMWPE (ultra-high molecular weight polyethylene) ABNT NBR 13904 wire.



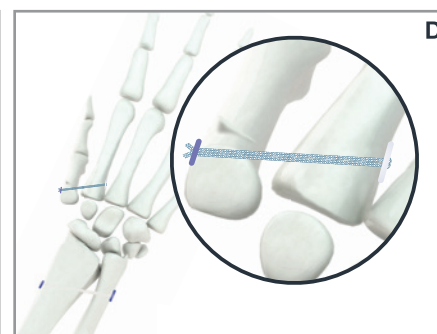
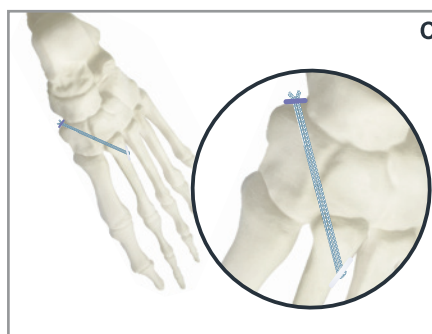
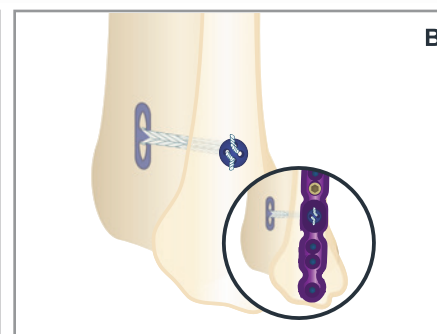
**Expert Knotless Dual (A)** consists of two joint fixators Knotless attached to the support plate, indicated for the treatment of syndesmosis lesions with greater instability.

For the treatment of syndesmosis lesions with less instability, the use of **Expert Knotless (B)** is indicated, singularly, paired and coupled to one of the holes of the GMReis fibular osteosynthesis plate - when there is syndesmosis injury associated with fibular fracture.

In the foot, **Mini-Expert (C)** can be used for Lisfranc instability and correction of deformities such as 'hallux varus' and 'hallux valgus'.

In the hand and wrist, the **Mini-Expert (D)** is indicated for suspensionoplasty procedures in the treatment of rhizarthrosis with trapezectomy or hemithrapezectomy, as well as for treatment of ARUD interosseous membrane lesions.

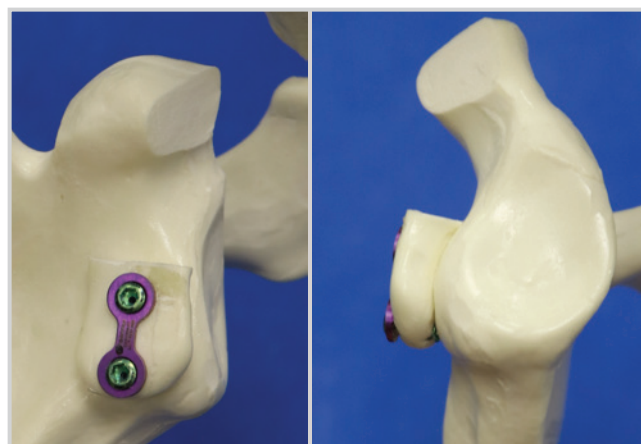
**Expert AC (E)** is used to perform coracoclavicular fixation in the treatment of acromioclavicular injury / dislocation.



A   Expert Knotless Dual	COD 314-2000
B   Expert Knotless	COD 312-2000
C / D   Mini Expert	COD 311-2000
E   Expert AC	NEW!

## Latarjet

GMReis Latarjet kit consists of full and partial thread cannulated screws, washer and support plate for the treatment of recurrent shoulder instability.





## VERSALOCK PLATING SYSTEM 2.4/2.7 mm

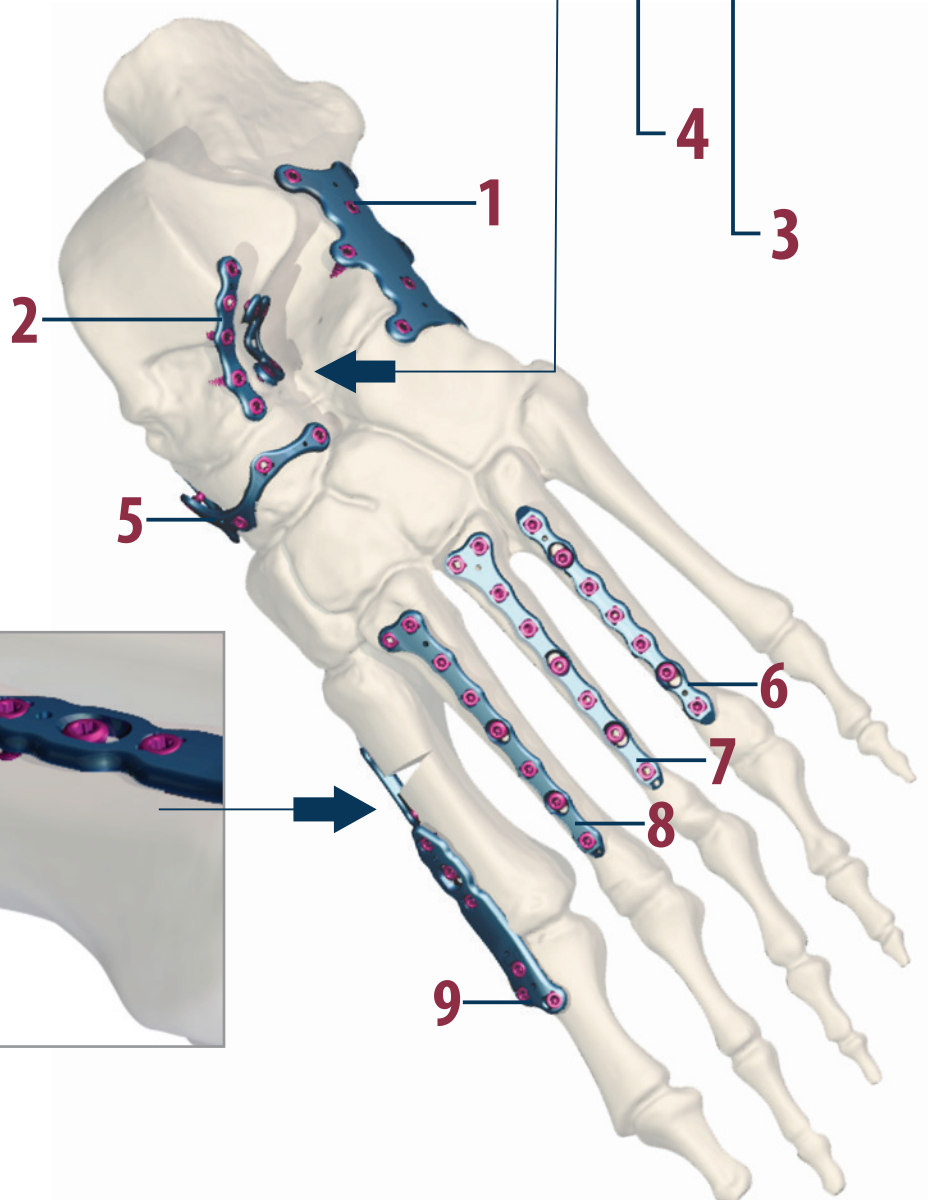
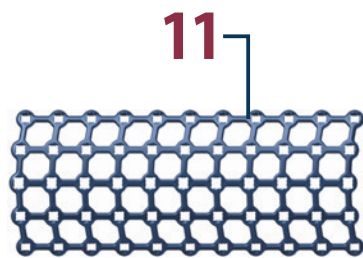
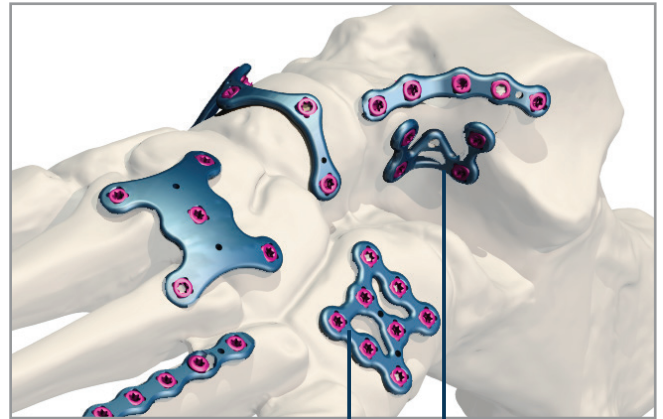


The Versalock Plating System 2.4/2.7 mm provides solution for fractures, arthrodesis, pseudoarthrosis and osteotomies of forefoot, midfoot and hindfoot.



### Versalock Plating System 2.4/2.7 mm

- 1 Versalock H Versatile Plate
- 2 Versalock Semilunar Versatile Plate
- 3 Versalock Talar Neck Plate
- 4 Versalock Cuboid Butterfly Plate
- 5 Versalock Navicular Snake Plate
- 6 Versalock Mini Straight Plate
- 7 Versalock Mini T Versatile Plate
- 8 Versalock Mini L Versatile Plate
- 9 Versalock Angled T Plate for 1st MTP arthrodesis
- 10 Versalock Low Profile U opening wedge plate 0.0, 2.0, 4.0, 6.0 and 8.0 mm
- 11 Versalock Mesh Plate



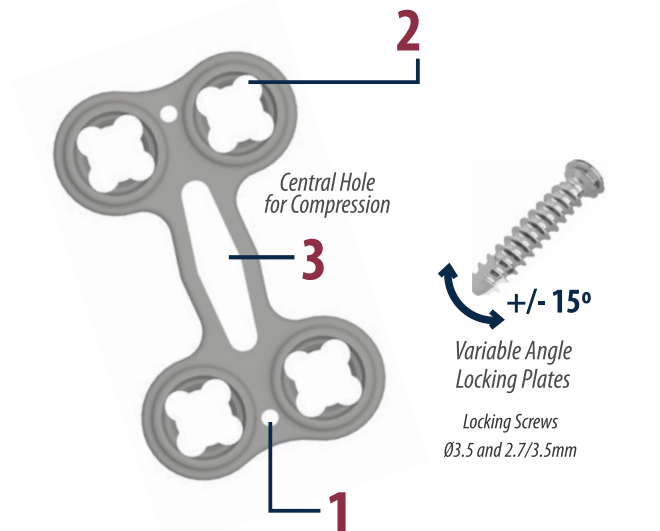


## VERSALOCK FOOT COMPRESSION PLATING SYSTEM 2.7/3.5 mm

The Versalock Foot Compression Plating System 2.7/3.5 mm was developed to be a safe and effective option, with shorter surgery time, for treating fractures, osteotomies, pseudoarthrosis and arthrodesis of forefoot, midfoot and hindfoot.

### Versalock Foot Compression Plating System 2.7/3.5 mm

- 1 Holes for guidewires intended for temporary plate fixation;
- 2 Versalock holes for variable angle locking plates  $\pm 15^\circ$ , with options for thread diameters: 2.7 and 3.5 mm;
- 3 After implant fixation, the plate's central hole is intended for compression of the treated joint by using a special designed compression spreader and,



**Versalock Polyaxial  
Compression Plate 2 Holes**



**Versalock Polyaxial  
Compression Plate 3 Holes**



**Versalock T Polyaxial  
Compression Plate 3 Holes**



**Versalock T Extended Polyaxial  
Compression Plate 4 Holes**



**Versalock X Polyaxial  
Compression Plate 4 Holes**



**Versalock U Polyaxial  
Compression Plate 4 Holes**



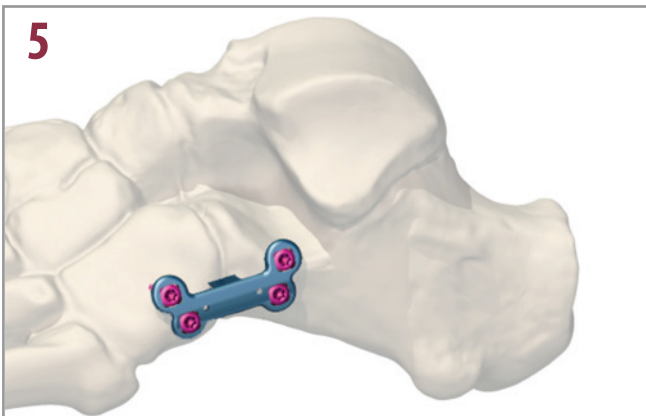
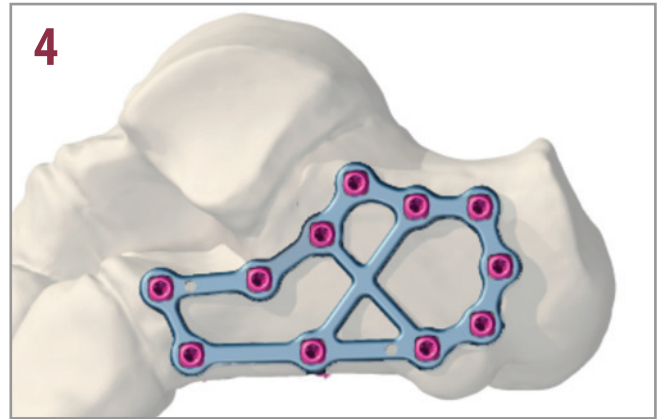
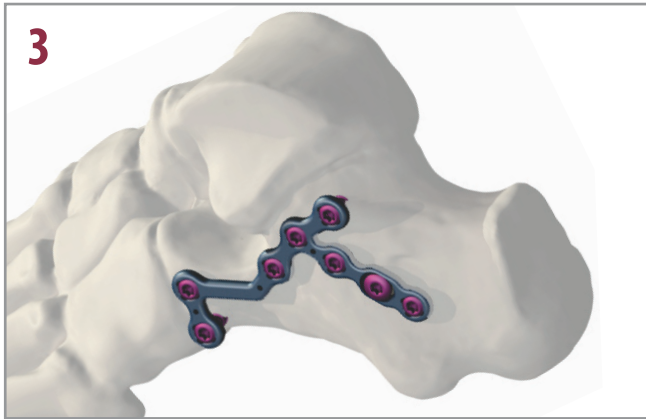
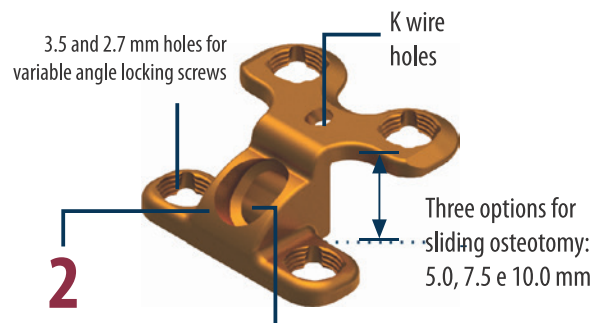
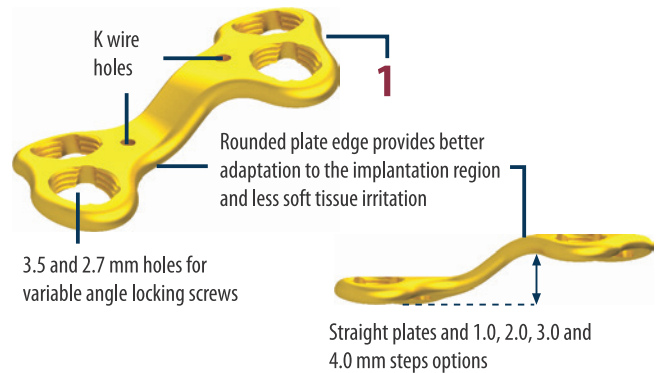


## VERSALOCK PLATING SYSTEM 2.7 / 3.5 mm

The Versalock Plating System 2.7/3.5 mm provides solution for: fractures, arthrodesis, pseudoarthrosis and osteotomies in regions that demand higher mechanical resistance of the implants, such as midfoot and hindfoot bones.

### Versalock Plating System 2.7/3.5 mm

- 1 Versalock Lapidus Arthrodesis Plate
- 2 Versalock Calcaneal Sliding Osteotomy Plate
- 3 Versalock Minimally Invasive Calcaneal Plate
- 4 Versalock Calcaneal Plate
- 5 Versalock U Plate for calcaneocuboid arthrodesis with 0.0, 6.0, 8.0 and 10.0 mm wedge
- 6 Versalock T Plate for medial column arthrodesis





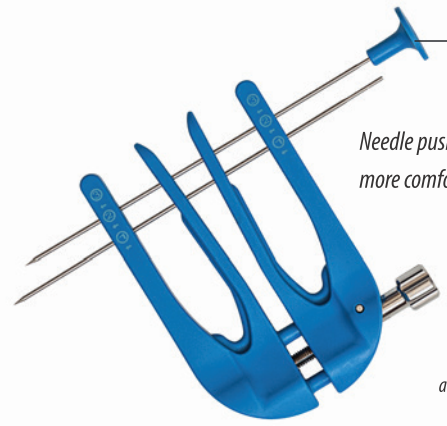
## MISCELANEOUS

### STA

The STA was developed for minimally invasive surgical treatment for the rupture of Achilles tendon with minimal soft tissue injury and fast rehabilitation of the patient.



Holes with progressive diameters ensure the correct insertion of needles for the four arms of STA.



Needle pusher makes safer and more comfortable procedure.

NOTE: The STA Kit does not accompany the suture wires, which must be purchased separately and mounted on the needles at the time of surgery.

STA

COD 233-01



### Artrom

Artrom GMReis is a conical subtalar titanium cannulated screw for talocalcaneal arthroereisis developed for the treatment of various disorders related to flat foot, resulting in subtalar joint instability and excessive pronation.



### PDR Ø3.0 mm

Ø3.0 mm PDR Cannulated Screw provides a solution for arthrodesis and interfragmentary compression in regions where no prominence of the screw head is desired, such as joints.



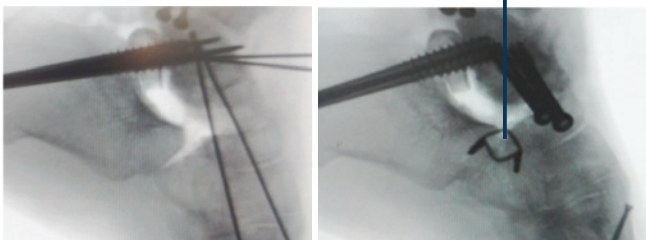
## STAPLES

The ALC and Compress Staples provide solution for stabilization and compression.

- 1 Staple Impactors are specially designed to provide a better stability during implantation;
- 2 Distraction spreader provides higher precision for compression and,
- 3 The compression is achieved by the opening of the compress staple.

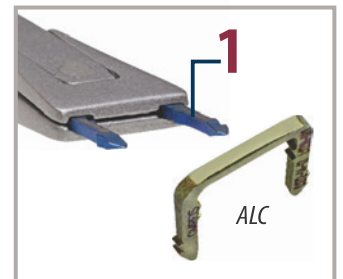
### CLINICAL CASE

Calcaneocuboid arthrodesis with Compress Staple.



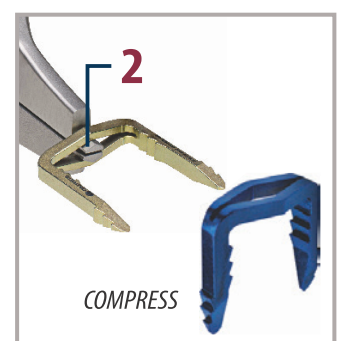
### ALC Staple

ALC Staple for osteotomies stabilization.



### Compress Staple

Compress Staple for osteotomies stabilization and arthrodesis.





## PERCUTANEOUS FIXATION



### MIS Micro Burrs

*The Minimally Invasive Foot Surgery GMReis was designed for treatment of several pathologies and deformities in forefoot, midfoot and hindfoot.*



Short Shannon  
Micro Burr Straight Ø1.9 x 10 mm COD 317-01



Wedge  
Micro Burr Cylindrical Ø3.1 x 15 mm COD 317-03



Straight Shannon  
Micro Burr Straight Ø2.0 x 15 mm COD 317-02



Extra Wedge  
Micro Burr Cylindrical Ø4.1 x 15 mm COD 317-04



Straight Shannon  
Micro Burr Straight Ø2.0 X 20mm COD 317--28



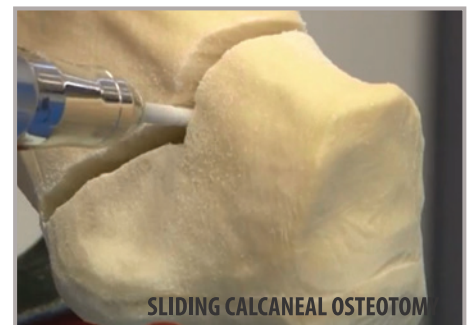
Conical  
Micro Burr Conical Ø3.1/1.0 x 12 mm COD 317-05



Long Shannon  
Micro Burr Straight Ø2.6 X 20mm COD 317-07



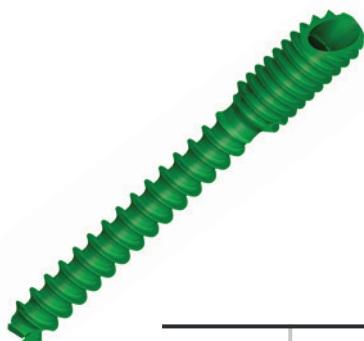
Conical  
Micro Burr Conical Ø4.1/1.0 x 12 mm COD 317-06



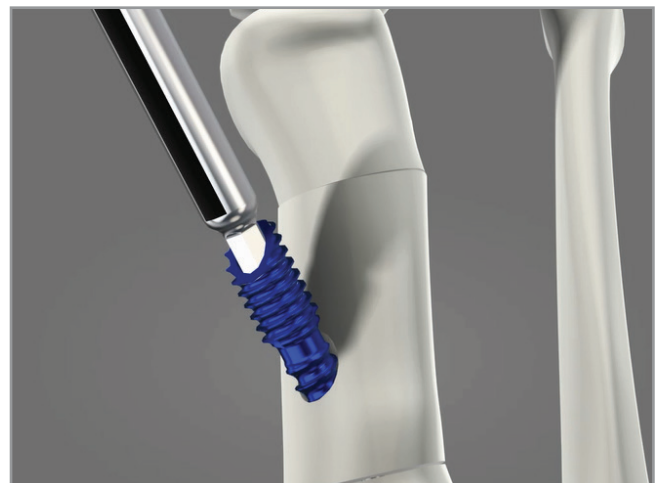
### CUT SCREW - Foot MIS Fixation System



*CUTSCREW Foot MIS Fixation System is a cannulated fully-threaded titanium screw system that is indicated for use in bone reconstruction, osteotomy, arthrodesis, joint fusion, fracture repair, and fracture in a percutaneous foot procedure. The Cutscrew's threaded and cut head allows for better cortical fixation performance without screw prominence, reducing soft tissue irritation.*



Ø 3.0 mm	16.0 mm to 50.0 mm lenght
Ø 4.0 mm	16.0 mm to 80.0 mm lenght





## ANKLE PLATING SYSTEM

### PBA-S MIS Medial Distal Tibia



### PBA-S Anterolateral Distal Tibia



### PBA-S MIS Fibula



### PBA Calcaneal



## ANKLE VERSALOCK ARTHRODESIS PLATING SYSTEM 4.5 / 5.5 mm

- 1 Compression holes for 4.5 mm cortex screw
- 2 Tibiotarsal compression hole for 5.5 mm cortex screw
- 3 Variable angle locking holes for 4.5 mm versalock screw

### Lateral Tibiotalar Plate



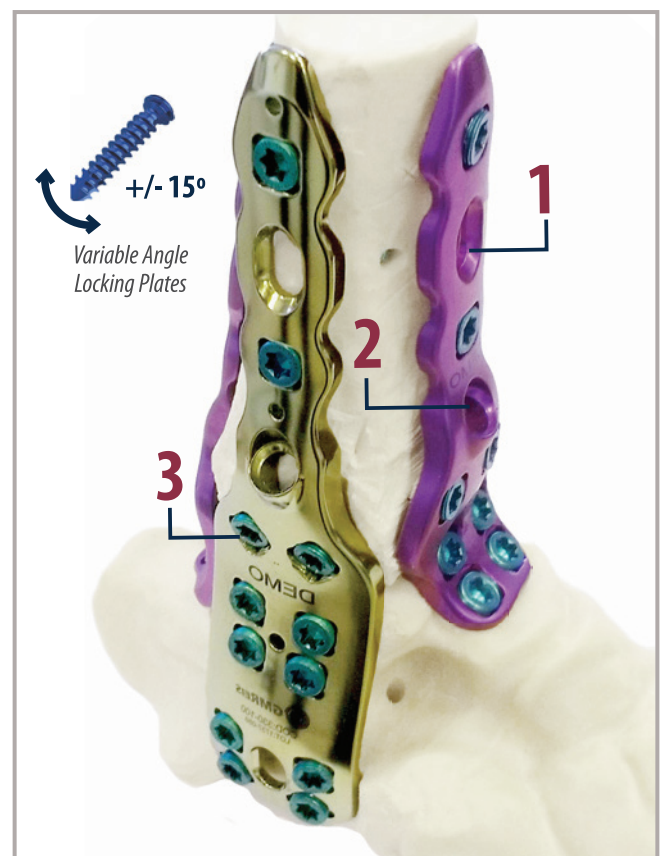
### Anterior Tibiotalar Plate



### Lateral Tibiototalcalcaneal Plate



### Posterior Tibiototalcalcaneal Plate





## HAND 1.5 / 2.0 | VERSALOCK VARIABLE ANGLE ANATOMIC PLATES



**Versalock Ø 1.5 mm Scaphoid**



**Versalock Ø 1.5 mm Phalangeal Head**



**Versalock Ø1.5 mm Lateral 1st Metacarpal**



**Versalock Ø 1.5 mm Metacarpal Neck**



**Versalock Ø1.5 mm Dorsal 1st Metacarpal**



**Versalock Ø2.0 mm Dorsal 1st Metacarpal**



**Versalock Ø 1.5mm Rotation /  
Angulation Correction Plate**



**Versalock Ø 2.0 mm Rotation /  
Angulation Correction Plate**





## HAND 1.5 / 2.0 | VERSA & VERSALOCK PLATING SYSTEM

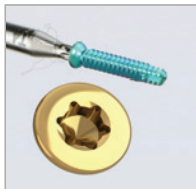
Complete Versa (non-locking) and Versalock Plating System (locking plates with +/- 15° variable angle), 1.5 mm and 2.0 mm, made of titanium, indicated for: fractures, osteotomies, deformities and pseudoarthrosis of hand bones.



### Versa and Versalock Plating System 1.5/2.0 mm

The anatomic "T", "L" and "Y" plates with different dimensions and shapes

- 1 provide the appropriate treatment for different types of metacarpals and phalanges fractures,
- 2 Quincunx plates with no-straight hole alignment has a smaller risk of fissure fracture,
- 3 Plates designed with double aligned rectangular and trapezoidal holes,
- 4 Plate designed with transversal oblong hole for rotation correction and;
- 5 Hook Plate for small fragments of phalange extremities.



#### Self-retain - Torxdrive

The Torxdrive self-retain connexion allows: better coupling between screw and screwdriver, better tightening torque and facilitates surgeon's handling during procedure.

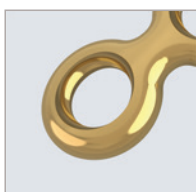


#### Self-tapping



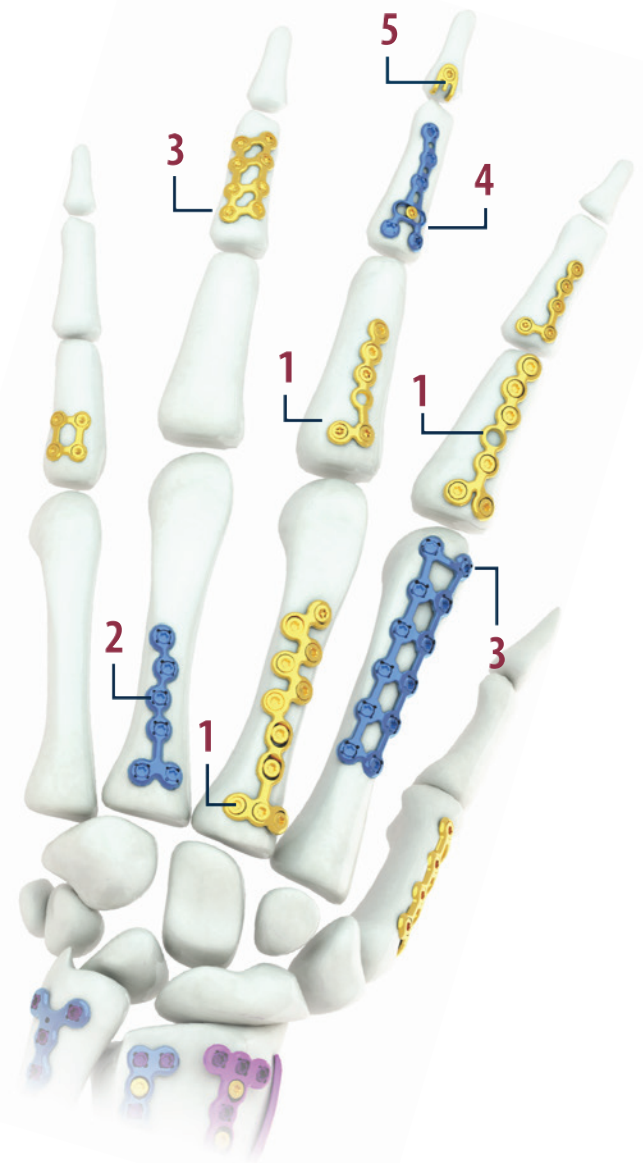
#### Versalock System

Versalock Plates allows to use variable angle locking screws with +/- 15°. Diameters: 1.5 mm and 2.0 mm.



#### Versa Hole

Polyaxial non-locking



Versa 1.5 mm Micro Plates with 0.6 mm Low Profile

\*Versa Screws Ø1.3, 1.5 and 1.8mm

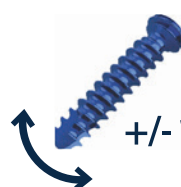


Versalock 1.5 mm Micro Plates with 0.8 mm Low Profile



Versa and Versalock Ø2.0 mm Micro Plates with 1.0 mm low profile





Variable Angle  
Locking Plates  
Locking Screws  
Ø1.5/2.0 mm



## Versalock Ø 1.5 mm Micro Plates

	Versalock Straight Micro Plate 4 holes
	Versalock Straight Micro Plate 7 holes
	Versalock Y Rotation Micro Plate 6 holes
	Versalock T Micro Plate 8 holes
	Versalock Trapezoidal Micro Plate 8 holes
	Versalock Trapezoidal Micro Plate 10 holes

## Versalock Ø2.0 mm Mini Plates

	Versalock Straight Mini Plate 6 holes
	Versalock T Mini Plate 6 holes
	Versalock T Mini Plate 7 holes
	Versalock Y Mini Plate 7 holes
	Versalock Rectangular Mini Plate 4 holes
	Versalock Y Rectangular Mini Plate 8 holes
	Versalock Y Rectangular Mini Plate 12 holes

## Versa Ø 1.5 mm Micro Plates

	Versa Straight Micro Plate 4 holes
	Versa Straight Micro Plate 6 holes
	Versa Straight Micro Plate 16 holes
	Versa Quincunx Micro Plate 16 holes
	Versa L Quincunx Micro Plate 5 holes - Left
	Versa L Quincunx Micro Plate 5 holes - Right
	Versa Y Quincunx Micro Plate 6 holes
	Versa T Quincunx Micro Plate 7 holes
	Versa T Quincunx Micro Plate 8 holes
	Versa Pin Micro Plate 5 holes - Left
	Versa Pin Micro Plate 5 holes - Right
	Versa Rectangular Micro Plate 4 holes
	Versa Rectangular Micro Plate 6 holes
	Versa Trapezoidal Micro Plate 8 holes - Left
	Versa Trapezoidal Micro Plate 8 holes - Right
	Versa Rectangular Micro Plate 10 holes
	Versa Rectangular Micro Plate 12 holes
	Versa Hook Micro Plate

## Versa Ø 2.0 mm Mini Plates

	Versa Straight Mini Plate 4 holes
	Versa Straight Mini Plate 6 holes
	Versa Straight Mini Plate 16 holes
	Versa Quincunx Mini Plate 16 holes
	Versa L Mini Plate 6 holes - Left
	Versa L Mini Plate 6 holes - Right
	Versa T Quincunx Mini Plate 7 holes
	Versa T Quincunx Mini Plate 11 holes
	Versa Y Quincunx Mini Plate 7 holes
	Versa Pin Mini Plate 6 holes - Left
	Versa Pin Mini Plate 6 holes - Right
	Versa Rectangular Mini Plate 4 holes
	Versa Rectangular Mini Plate 6 holes
	Versa Y Rectangular Mini Plate 8 holes
	Versa Trapezoidal Mini Plate 8 holes - Left
	Versa Trapezoidal Mini Plate 8 holes - Right
	Versa Y Rectangular Mini Plate 10 holes
	Versa Y Rectangular Mini Plate 12 holes

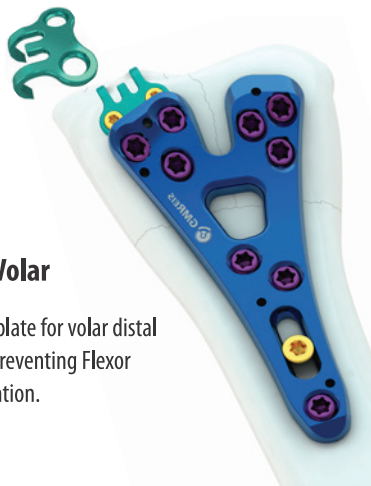


# HAND & WRIST

## VERSALOCK WRIST SYSTEM - VARIABLE ANGLE LOCKING PLATES - DISTAL RADIUS

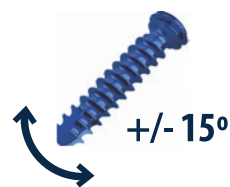
### Versa Micro Hook Plate

Versa Ø 1.5 mm Micro Screws



### Versalock "Protect FLP" Volar

Variable angle anatomic locking plate for volar distal radius fractures - developed for preventing Flexor Pollicis Longus Tendon (FLP) irritation.

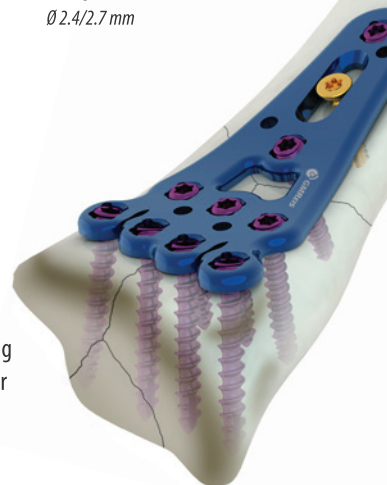


Variable Angle  
Locking Plates  
Locking Screws  
Ø 2.4/2.7 mm



### Versalock "Baby Foot" Volar Distal Radius

Variable angle anatomic locking and compression plate for volar distal radius fractures.



### Versalock Lunate Facet



### Versalock MIS Volar

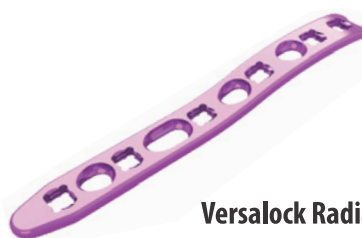
Minimally invasive variable angle locking plate for volar distal radius fractures.



### Versalock "T" Distal Radius



### Versalock "L" Distal Radius



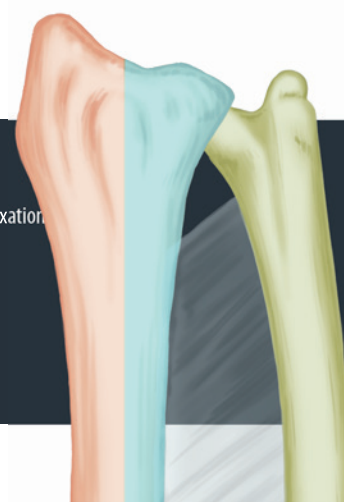
### Versalock Radial Styloid

Variable angle anatomic locking and compression plate for lateral distal radius fractures.

## THREE COLUMN THEORY

The treatment of distal radius and ulna fractures requires a meticulous reconstruction of the joint surface, as well as stable internal fixation and early functional post-operative treatment. The distal radius and distal ulna form a three-column biomechanical construction:

- Radial or lateral column: distal radius with the scaphoid fossa and the styloid process;
- Intermediate column: medial part of the distal radius, with the lunate fossa and the sigmoid notch and,
- Ulnar or Medial Column: distal ulna, the triangular fibrocartilage and the distal radio-ulnar joint.

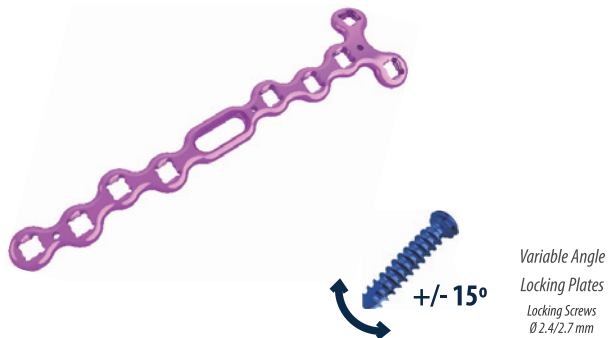




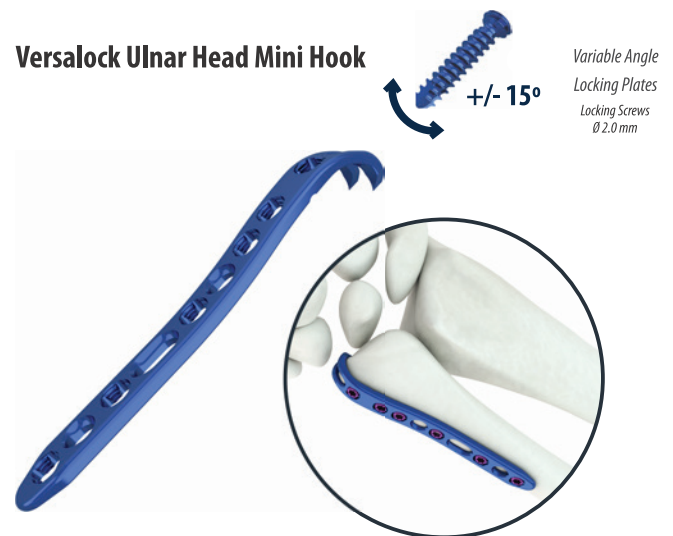
## VERSALOCK WRIST SYSTEM - VARIABLE ANGLE LOCKING PLATES - DISTAL ULNA



### Versalock "Y" Distal Ulna



### Versalock Ulnar Head Mini Hook



## VERSALOCK ARTHRODESIS PLATES - VARIABLE ANGLE

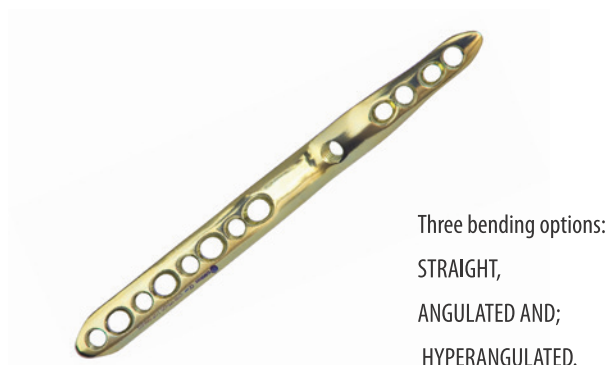
### Versalock RSL Fusion



### Versalock Partial Wrist Arthrodesis



### PBA-S Wrist Arthrodesis





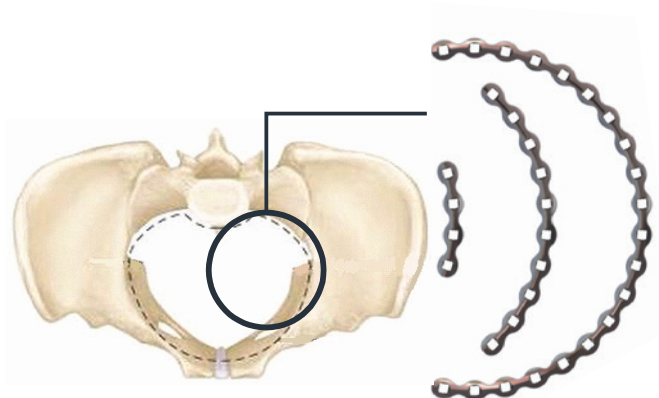
## VERSALOCK PELVIC RECONSTRUCTION SYSTEM

The Versalock Pelvis Reconstruction Plating System 3.5/4.5 mm was developed to offer the surgeon a versatile option for treating fractures, osteotomies, pseudoarthrosis and arthrodesis of pelvis and acetabulum.

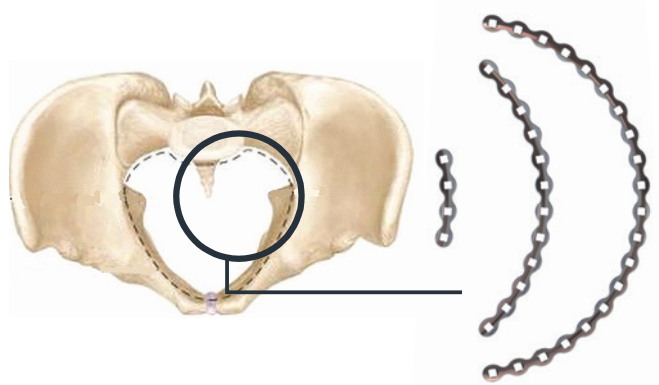


**PBA-S 3.5 mm Straight Variable Angle Locking Plate**

The plates and screws of the Versalock Pelvic Reconstruction System are made of high chromium stainless steel alloy that presents excellent corrosion and fatigue resistance and present low profile and rounded edges, reducing soft tissue irritation.



**Versalock Curved Reconstruction Variable Angle Locking Plate (R88 for woman)**



**Versalock Curved Reconstruction Variable Angle Locking Plate (R108 for men)**



**Versalock Screws**  
Ø3.5 mm

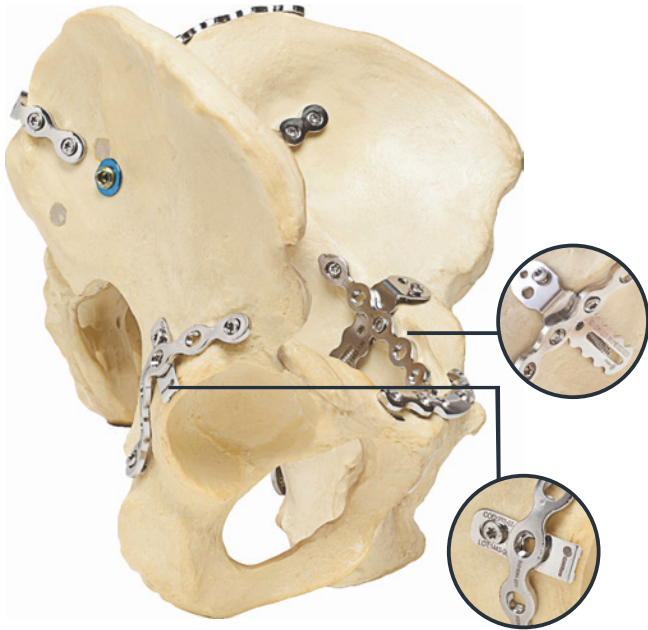


**Cortex Screws**  
Ø3.5 mm and Ø4.5 mm



**Variable angle locking plates**

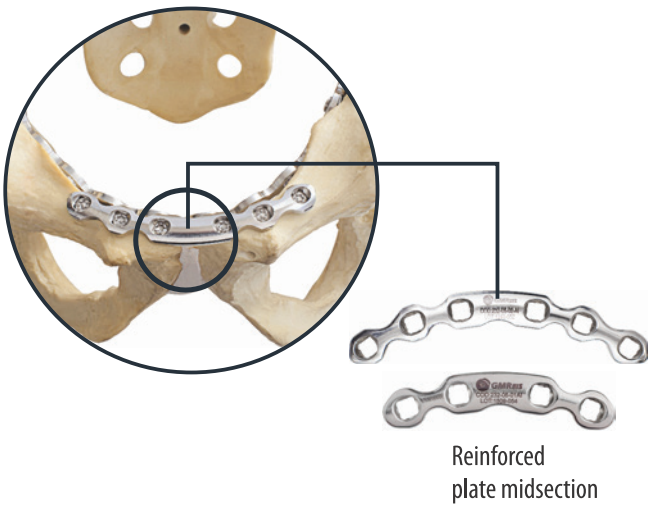




**Versalock 3.5 mm  
Quadrilateral Surface Plate**



**Versalock 3.5 mm  
Spring Plate**



**Versalock Pubic Symphysis Variable  
Angle Locking Plate (R75)**

**Quadrilateral Surface Versalock Infrapectineal Plate**



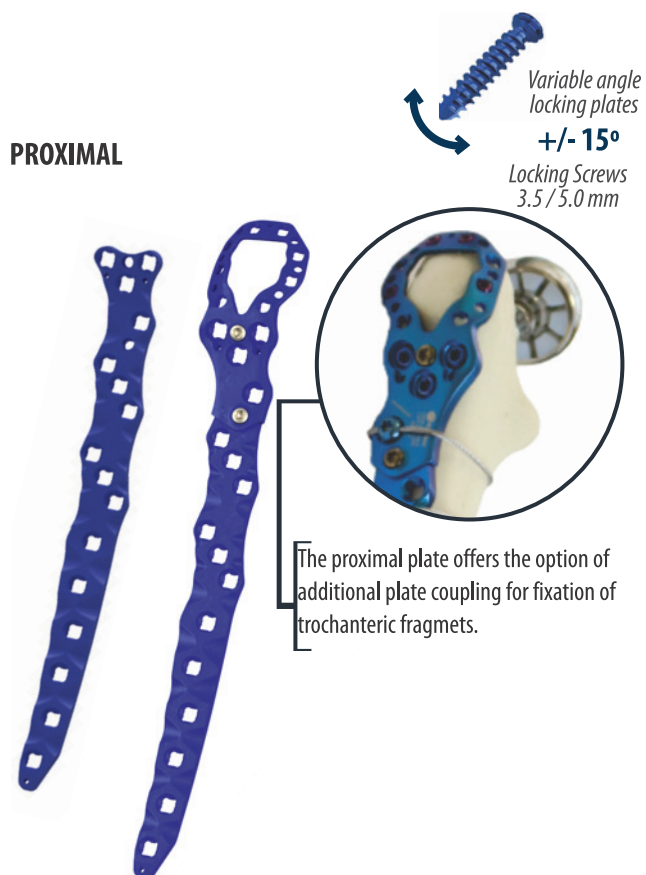
**Quadrilateral Surface Versalock Suprapectineal Plate**



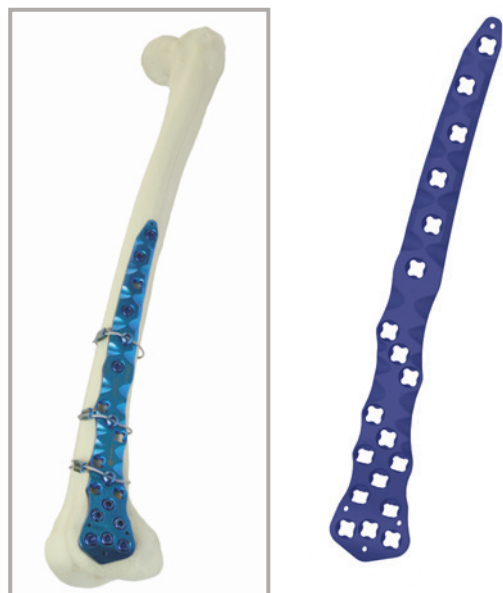


## VERSALOCK PERIPROSTHETIC VARIABLE ANGLE LOCKING PLATES

### PROXIMAL



### DISTAL



## VERSALOCK CONDYLAR FEMORAL VARIABLE ANGLE LOCKING PLATE



## DHS / DCS LOCKING PLATES

DHS



DCS



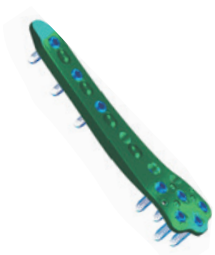


# KNEE OSTEOTOMY

## KNEE OSTEOTOMY - LOCKING PLATES



**PBA-S Lateral Distal Osteotomy - Femur**



**PBA-S Medial Proximal Osteotomy - Tibia**



**PBA-S Lateral Proximal Osteotomy - Tibia**



**Versalock Tibial Osteotomy Plate**



Steps: 5.0 mm  
7.5 mm  
10.0 mm  
12.5 mm  
15.0 mm

## TIBIAL PLATEAU

### FIXED ANGLE LOCKING PLATES 4.5 mm

**PBA-S 4.5 mm "T" - MEDIAL**



**PBA-S 4.5 mm "L" Proximal Tibia LATERAL**



### VARIABLE ANGLE LOCKING PLATES 3.5 mm

**Versalock 3.5 mm Medial Proximal Tibia**



**Versalock 3.5 mm Posteromedial Proximal Tibia**



**Versalock 3.5 mm Lateral Proximal Tibia**





**PBA-S Clavicle Locking Plate**



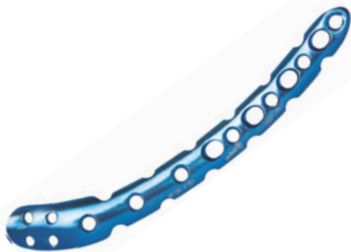
**PBA-S Proximal Humerus Locking Plate**



**PBA-S Medial Distal Humerus Locking Plate**



**PBA Lateral Distal Humerus Locking Plate**



**PBA-S Posterolateral Distal Humerus Locking Plate**



**PBA-S Olecranon Locking Plate**



**PBA Coronoid Plate**



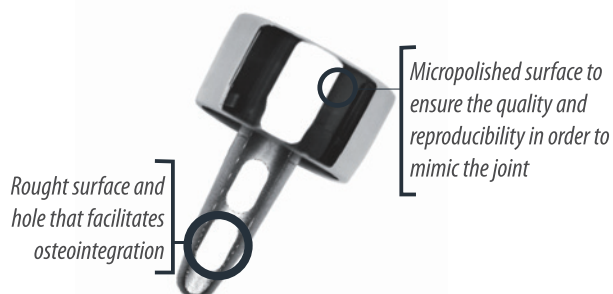
**PBA-S Radial Head Locking Plate**



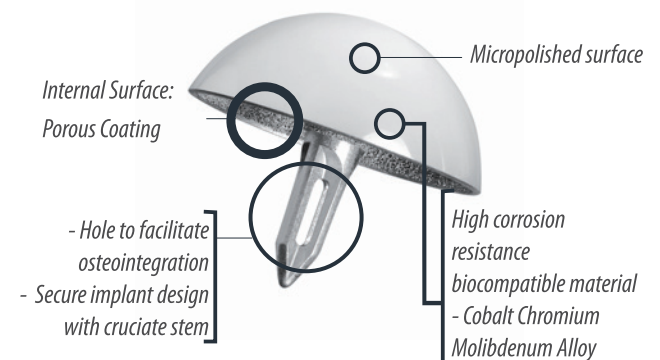
## ARTHROPLASTY

**RADIUS - Partial Prosthesis for Radius Head**

Anatomical surface to restore the exchanging of adequate charge to the elbow and the foramen with annular ligament



**AQUARIUS - Humeral Resurfacing Prosthesis**

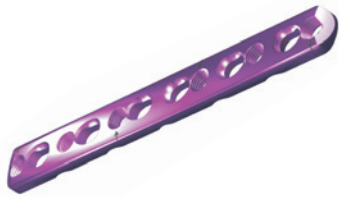




# STRAIGHT PLATES



**PBA-S 3.5 mm Straight Fixed-Angle Locking Plate**



**PBA-S 3.5 mm Reconstruction Fixed-Angle Locking Plate**



**PBA-S 4.5 mm Narrow Straight Fixed-Angle Locking Plate**



**PBA-S 4.5 mm Wide Straight Fixed-Angle Locking Plate**



## CANNULATED SCREWS

**PDR Headless Cannulated Screw**

Self-tapping  
Self-drilling

Available sizes:

Ø 1.7 mm  
Ø 2.2 mm  
Ø 3.0 mm  
Ø 5.5 mm  
Ø 7.5 mm



**4.0 mm Interfragmentary Compression Cannulated Mini Screw**

Self-tapping  
Self-drilling



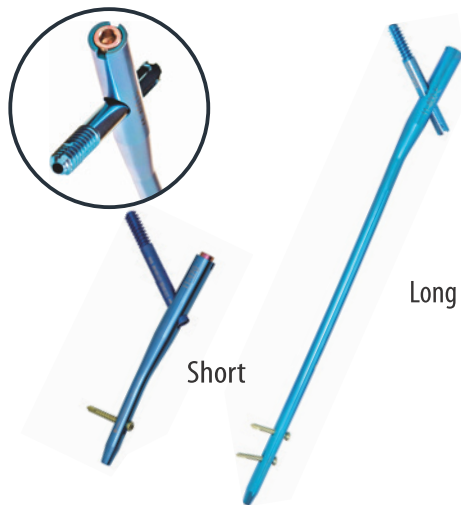
**7.3 mm Interfragmentary Compression Cannulated Screw**

Self-tapping  
Self-drilling

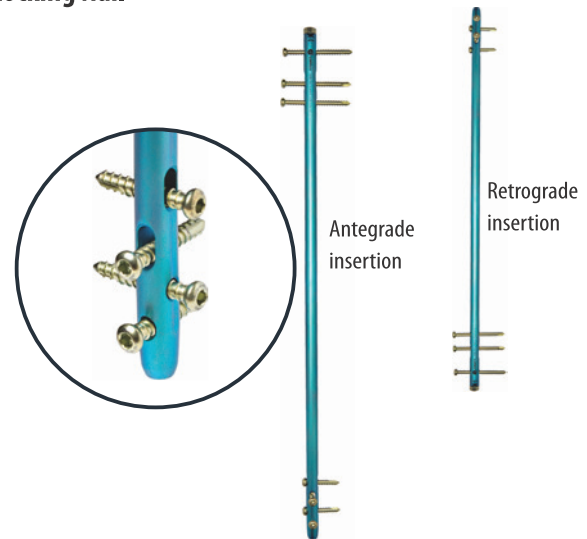




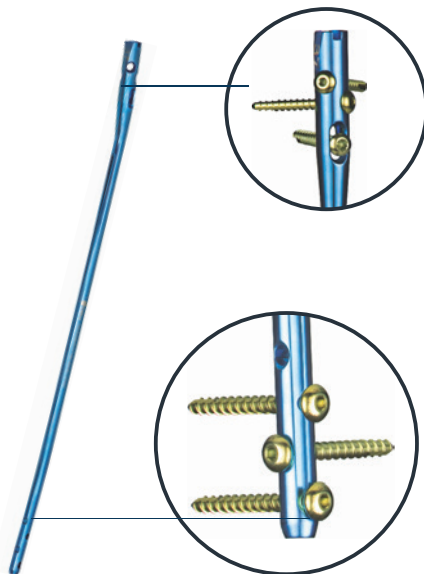
**TRANSLOCK - Cannulated  
Trochanteric Femoral Locking Nail**



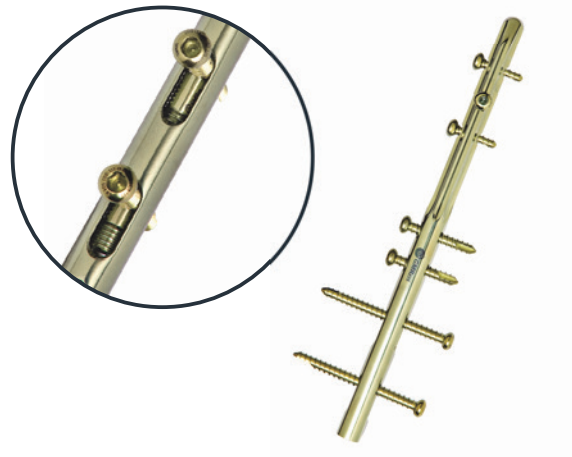
**HBFC - Cannulated Femoral Antegrade and Retrograde  
Locking Nail**



**TIBIAMAX C  
Cannulated Tibial Locking Nail**



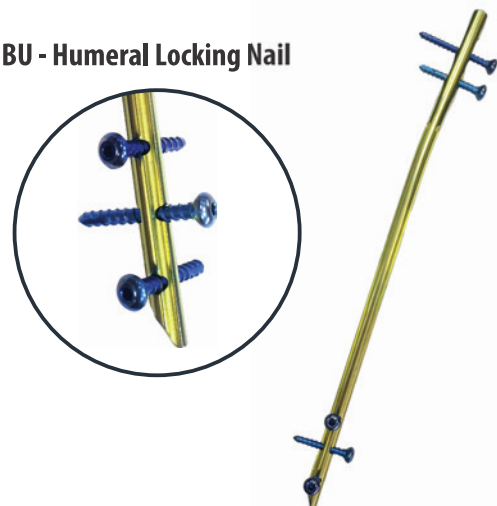
**RETROFIX - Cannulated Tibiotarsal  
Fusion Locking Nail**



**Fibula Locking Nail**



**HBU - Humeral Locking Nail**

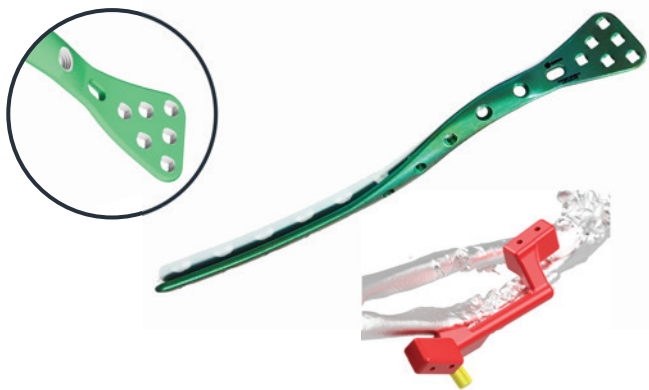




# CUSTOM MADE IMPLANTS

The custom implant is a solution for exceptional cases where the surgeon does not find products on the market that are suitable to the needs of his patients.

## Custom Variable Angle Locking Plate and Drill Guide, developed for radius reconstruction



### CLINICAL CASE

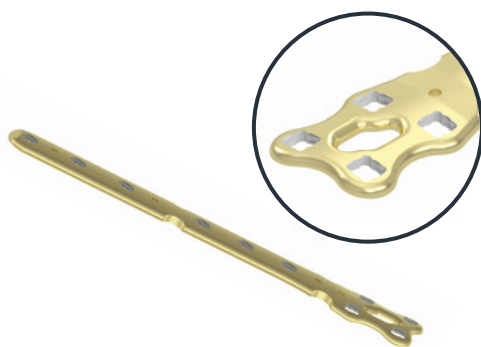


Patient with fractures of the radius and ulna diaphyses, both treated with conventional plates that progressed to pseudarthrosis. Angular deformity and shortening of the radius with consequent dislocation of the distal radioulnar joint.

### Patient's needs

- Extra-articular and extra-long titanium distal radius plate with fixation on the distal metaphysis on the volar surface and on the proximal diaphysis on the dorsolateral surface,
- Radiolucent guide developed for perfect coupling at pseudarthrosis focus to accurately guide proximal and distal drilling,
- Tailor-made plate based on opposite radius images to restore equal axial length as well as perfect adjustment of bone rotation and translation and;
- Locking holes for Ø2.4 / 2.7 mm and Ø3.5 mm screws distributed according to implant region and implant biomechanics.

## Custom Locking Plate, developed for hallux reconstruction



### CLINICAL CASE



Patient with bone failure due to osteomyelitis in the hallux proximal phalanx after osteosynthesis with plate. Risk of amputation. The implants were removed and the region stabilized with GMReis external fixator.

### Patient's needs

- Titanium plate,
- Variable angle locking holes for Ø2.4 and Ø2.7 mm screws,
- Three holes for the metatarsal,
- Three holes for the proximal phalanx graft,
- Tailor-made plate with exact dimensions to fix the small bone residue on the distal extremity of the proximal phalanx and the distal phalanx and;
- Reduced profile at the distal extremity of the plate to do not to damage the root of the nail.



## ART- Epiphysiodesis Plates

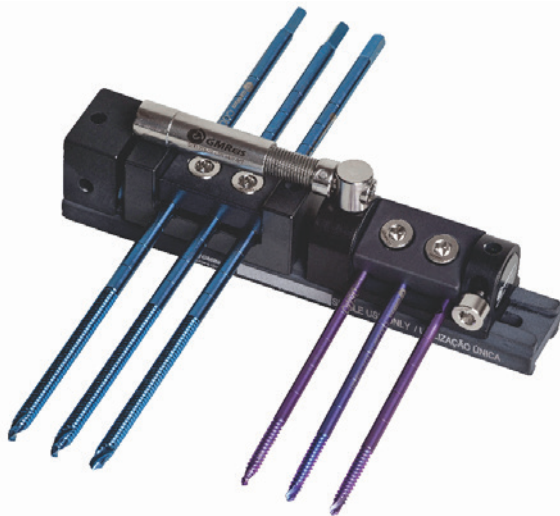
*Two and four holes epiphysiodesis plates.*



## Pediatric Ergofix - Limb Reconstruction

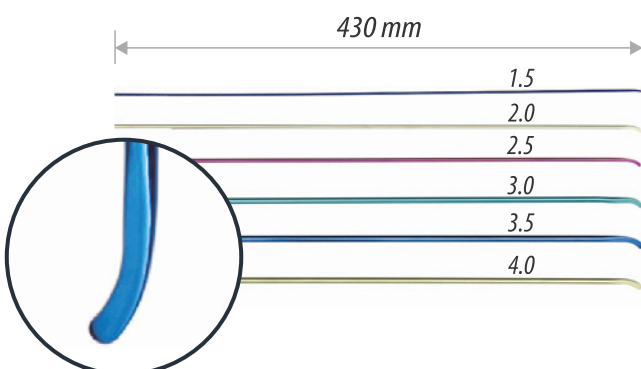
### External Fixator

*Pediatric external fixator.*



## H-Flex - Flexible Nail

*Pediatric titanium flexible intramedullary nail.*



## Petit Nail - Cannulated Pediatric Femoral Locking Nail

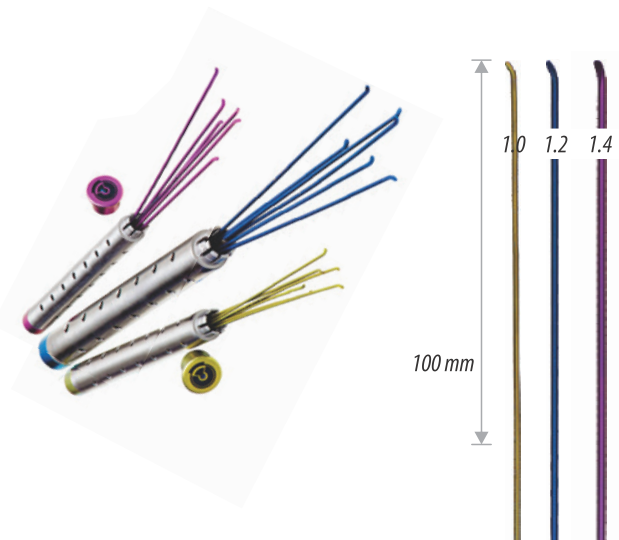
**Two options  
for proximal locking**

*Diameters: Ø 7.0 mm, Ø 8.0 mm and Ø 9.0 mm*



## Mini H-Flex - Mini Flexible Nail

*Pediatric titanium flexible intramedullary nail for extremities.*





# EXTERNAL FIXATION

## ERGOFIX

*Ergofix is a monolateral and modular external fixator for upper and lower limbs bone reconstruction. The standard Ergofix kit provides callus mass lengthening (and hence bone lengthening) by a process of slow, symmetrical distraction (callotaxis), bone transport and interfragmentary compression; the special Ergofix clamps kit increases treatment possibilities, with asymmetrical distraction, angular deformities correction, translation and varus and valgus deformity.*

### Product Information

- 1 Monolateral: Quick and easy application, highly stable device;
- 2 Osteogenic Distraction: slow lengthening of the callus mass (callotaxis), without harm to soft tissue;
- 3 Modular system with different types of staples provides versatility for applying Ergofix in simple or complex procedures;
- 4 Dynamization: easy exchange between the static compression-distraction mode and the dynamic mode stimulates the callus development;
- 5 The Inclination Clamp provides ideal positioning of the Schanz Pins even for curved bones like femur and,
- 6 The Ring Hinge allows to combine Ergofix application with another GMReis Hybrid External Fixator.



### BASIC FRAME DEVICES



Straight Clamp



Inclination Clamp



Dyna Clamp



Compression Distraction Device 40 mm  
Compression Distraction Device 80 mm



120 mm | 200 mm | 250 mm |  
300 mm | 350 mm | 400 mm Rail

### SPECIAL DEVICES



Ring Hinge



Metaphyseal Clamp



8 mm Sandwich Clamp  
15 mm Sandwich Clamp



Multiplanar Clamp



Micrometric Clamp



Translation Clamp



Translation / Angulation Clamp



Ball-Joint Coupling 'T' Clamp



'T' Clamp



Ball-Joint Coupling Straight Clamp



# EXTERNAL FIXATION

## EXTERNAL FIXATORS



**Carbon Fiber Rods**  
**Titanium Pins**

### Hybrid External Fixator

Distal Tibia Frame



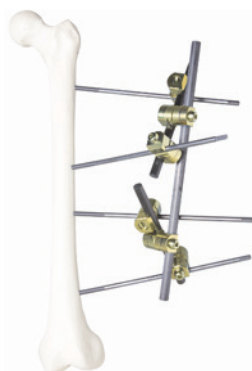
Proximal Tibia Frame



*The Hybrid External Fixator can be combined with the Ergofix fixator for bone reconstruction: deformity, arthrodesis, bone transport and lengthening.*



### Large External Fixator



### Medium External Fixator



### Small External Fixator





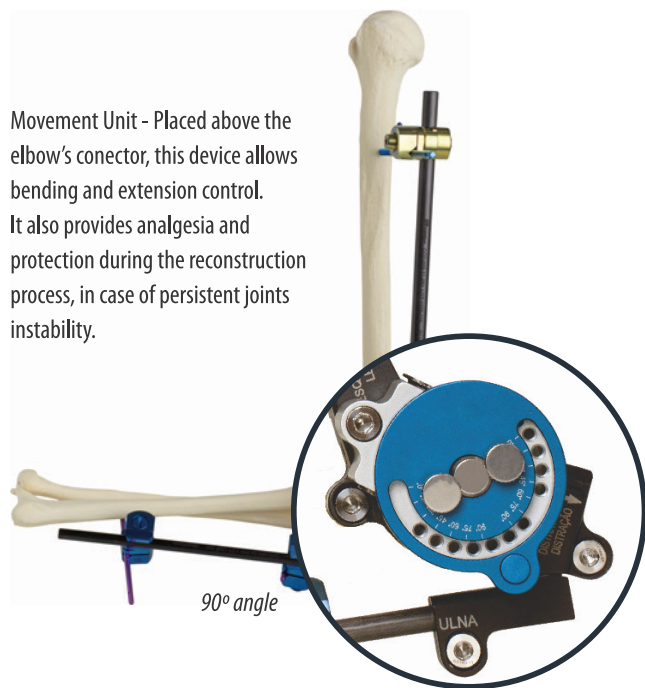
# EXTERNAL FIXATION



**Carbon Fiber Rods**  
**Titanium Pins**

## Floating Elbow External Fixation System

Movement Unit - Placed above the elbow's connector, this device allows bending and extension control. It also provides analgesia and protection during the reconstruction process, in case of persistent joints instability.



**Maximum bending position**



**Maximum extension position**

## CLINICAL CASE



66-year-old patient with severe osteoporosis suffered distal humeral comminuted supracondylar fracture.



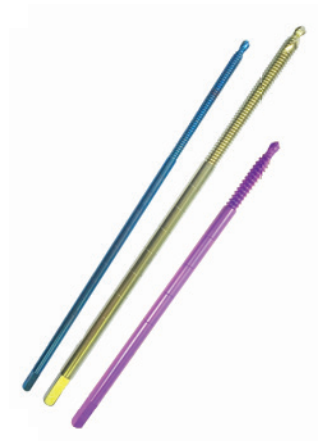
Fracture stabilization with internal synthesis and articulation protection, using articulated external fixator for six weeks, until consolidation; immediate limb mobilization was achieved.

## Schanz Pins

ASTM F136 Titanium "self-tapping" "self-drilling" Schanz Pins.

$\varnothing 2,5\text{ mm}$   
 $\varnothing 3,0\text{ mm}$   
 $\varnothing 4,0\text{ mm}$   
 $\varnothing 5,0\text{ mm}$   
 $\varnothing 6,0\text{ mm}$

Lenght:  
80 mm to 250 mm



## HA-PIN - Hydroxyapatite Coated Schanz Pin

Stainless Steel Schanz Pins (ASTM F138) coated with hydroxyapatite (ASTM F1609—08 ).

Thread diameter options:

$\varnothing 5.0/4.0/3.0\text{ mm}$   
 $\varnothing 6.0/5.0/4.0\text{ mm}$   
 $\varnothing 6.0/5.0\text{ mm}$   
 $\varnothing 3.5/3.2\text{ mm}$   
 $\varnothing 3.3/3.0\text{ mm}$   
 $\varnothing 6.0\text{ mm}$   
 $\varnothing 5.0\text{ mm}$

Total Diameter:  $\varnothing 6.0\text{ mm}$   
 Total Lenght: 80 mm to 260 mm  
 Thread Lenght: 35 mm to 90 mm





# ARTHROSCOPY

## NeedleScope - Disposable in Office Arthroscope

In office arthroscopy diagnosis for: hand, wrist, knee, shoulder and ankle.

### Product Features

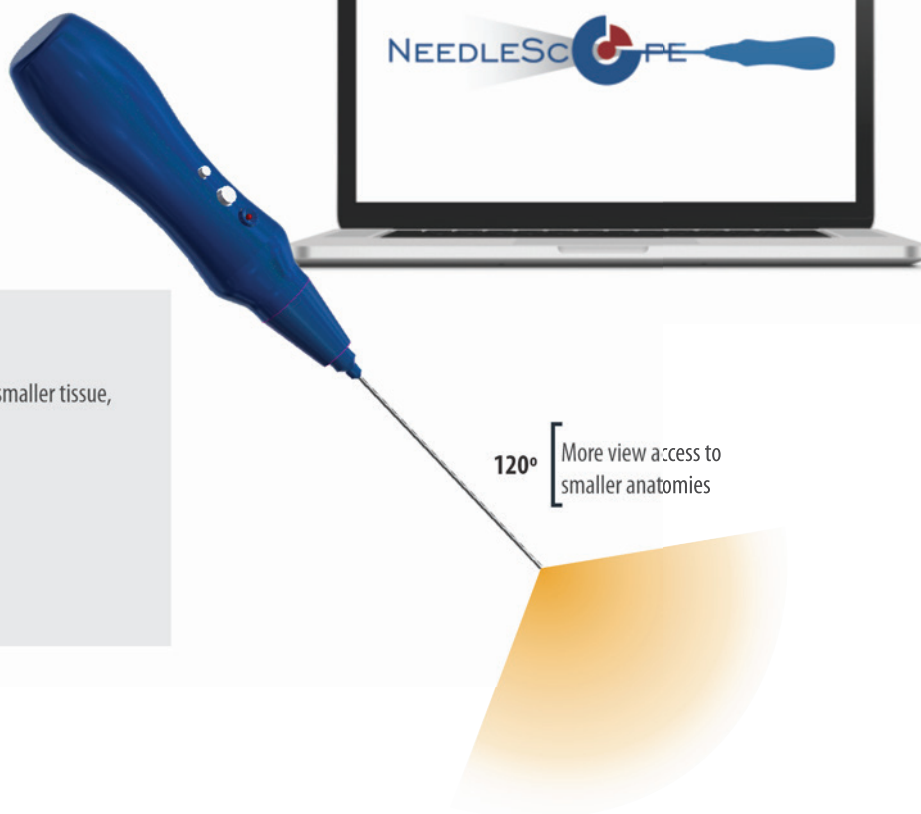
- 1 High quality image - CMOS Technology
- 2 Disposable
- 3 Ø 1.9 mm outer diameter
- 4 0° optics
- 5 120° field of view
- 6 Semi-Flexible
- 7 70 – 130 cm length
- 8 3 - 100 mm field depth

### BENEFITS

Disposable - less risk of cross infection,  
Thinner tip - less collateral tissue damage due smaller tissue,  
Reduced time to diagnosis and;  
Reduced cost (no MMR, no Hospital Cost).

### For the patient

Reduced recovery time,  
Reduced diagnosis time and;  
Avoids general anesthetic.



## BATTERY POWER EQUIPMENT

### Solaris - Orthopaedic Battery Power Tools System

Drill  
Surgical Saw  
Oscilating Saw  
1.6 mm and 4.0 mm pin drivers







## Sponjosa

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

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

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



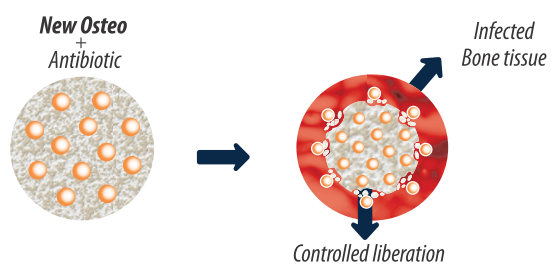
## New Osteo

Synthetic bone graft made of calcium sulfate.

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

## INFECTION TREATMENT

New Osteo, when used with antibiotics, provides control and prevention of 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 -  $\text{BaSO}_4$ ).





## GMREIS

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ZIP CODE: 13069-320 | Campinas/SP - Brazil  
Phone: +55 (19) 3765 9900

### Export

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Colombia: [export1@gmreis.com](mailto:export1@gmreis.com)  
Worldwide: [export2@gmreis.com](mailto:export2@gmreis.com)

 **GMReisBrasil**

[www.gmreis.com.br](http://www.gmreis.com.br)

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