As it starts its operations in 2005, Razek it became famous for offering a wide range of national solutions, both in electro-mechanical technology equipment, and in single-use products for different segments of Orthopedics - Shoulder, Knee, Hip, Fist, Ankle and ATM Arthroscopy Surgery, several minimally invasive approaches for spine surgery, materials for foot, hand surgery, as well as solutions for neurology and otorhinolaryngology.

The offered product line faced such growth, that required massive investment towards the construction of a new headquarters that would reflect the innovative philosophy of the company and the growth rate.

In the year 2015 the company presents to the market the first line of implantable materials, represented by an extensive range of cannulated screws and/or SnapOff screws for feet, in order to fill a huge gap in national manufacturing scenario, and in 2017 we present a varied range of plates, screws and clamps for various types of lower extremity surgery.

The construction of the new headquarters, designed with the state-of-the-art engineering concepts and already in finishing stage, the significant expansion of the range of single-use products and release of the first line of implantable materials, crowning this notable trajectory of provided services to the brazilian medical community.

Renaldo Massini Junior
Artur Cesar Sassoli
RZ FEET RIGID PLATES SYSTEM

The Rz Feet Rigid Plates System was developed for trauma, osteotomy and arthrodesis procedures in the various regions of the foot.

The plates have anatomical geometry and low profile, which eliminates the need for conformation, facilitates the surgical procedure, minimizes prominence and gives patients a greater comfort. In addition, they are presented in different sizes and different orientations, in order to adapt the different anatomies of patients. Its locked and compression holes are positioned strategically, providing maximum fixing stability, even in complex cases.

Plate Features
- Made of ASTM F136 / NBR ISO 5832-3 titanium alloy and anodized
- Anatomic contour and low profile, reducing prominence and minimizing soft tissue irritation;
- Compatible with all locking and non-locking bolt models;
- They have three orientations (right, left, and single), identified through color-coding: Right → anodized in golden color
  Left → anodized in pink color
  Single → anodized in green color
- Osteotomy plates are anodized in aqua color.

Locking and Non-locking Bolts

- Made of titanium alloy
- Not cannulated
- Screw with self-tapping thread
- Screw with hexalobular socket

**Locking Bolts**
Designed to be used in blocked holes. Their thread is specially designed for attachment to the cortical portion of the bone.

<table>
<thead>
<tr>
<th>Distal Thread (Diameter)</th>
<th>Proximal Thread (Diameter)</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,5 mm</td>
<td>5,1 mm</td>
<td>8 to 50 mm</td>
</tr>
</tbody>
</table>

**Non-locking Bolts**
Designed to be used in blocked or compression holes. Their thread is specially designed for attachment to the cortical spongy portion of the bone.

<table>
<thead>
<tr>
<th>Distal Thread (Diameter)</th>
<th>Head Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,7 mm</td>
<td>4,8 mm</td>
<td>8 to 30 mm</td>
</tr>
<tr>
<td>3,5 mm</td>
<td>4,8 mm</td>
<td>8 to 50 mm</td>
</tr>
<tr>
<td>4,0 mm</td>
<td>4,8 mm</td>
<td>8 to 60 mm</td>
</tr>
</tbody>
</table>
Osteotomy Plate of Cotton and Evans - OTC

Used in procedures for correction of pes planus (also called flat feet of fallen arches), through wedge osteotomies in the calcaneus (Evans) and medial cuneiform (Cotton).

- Color: aqua
- Thickness: 1,5 mm
- Wedge spacing variations: 2, 4, 5, 6, 7, 8, 10 and 12 (mm)

Models
- Osteotomy of Cotton and Evans - 2 Holes - 23 x 2 mm - OTC 00-A-02-U
- Osteotomy of Cotton and Evans - 2 Holes - 25 x 4 mm - OTC 00-A-04-U
- Osteotomy of Cotton and Evans - 2 Holes - 26 x 5 mm - OTC 00-A-05-U
- Osteotomy of Cotton and Evans - 2 Holes - 27 x 6 mm - OTC 00-A-06-U
- Osteotomy of Cotton and Evans - 2 Holes - 28 x 7 mm - OTC 00-A-07-U
- Osteotomy of Cotton and Evans - 2 Holes - 29 x 8 mm - OTC 00-A-08-U
- Osteotomy of Cotton and Evans - 2 Holes - 31 x 10 mm - OTC 00-A-10-U
- Osteotomy of Cotton and Evans - 2 Holes - 33 x 12 mm - OTC 00-A-12-U

Osteotomy Plate for Bunion - OTB

Used in procedures for correction of Hallux Valgus, through wedge osteotomies at the base of the first metatarsus.

- Color: aqua
- Thickness: 1,5 mm
- Wedge spacing variations: 2, 3, 4, 5 and 6 (mm)

Models
- Osteotomy for Bunion 4 Holes 32 x 2 mm - OTB 00-A-02-U
- Osteotomy for Bunion 4 Holes 33 x 3 mm - OTB 00-A-03-U
- Osteotomy for Bunion 4 Holes 34 x 4 mm - OTB 00-A-04-U
- Osteotomy for Bunion 4 Holes 35 x 5 mm - OTB 00-A-05-U
- Osteotomy for Bunion 4 Holes 36 x 6 mm - OTB 00-A-06-U

Osteotomy Plate for Heel - OIC

Used in procedures for correction of hindfoot valgus, through sliding osteotomy in the calcaneus.

- Color: aqua
- Thickness: 1,5 mm
- Height variations for osteotomy: 6, 8 and 10 (mm)

Models
- Osteotomy Plate for Heel 5 Holes 24 x 6 mm - OIC 00-A-06-U
- Osteotomy Plate for Heel 5 Holes 24 x 8 mm - OIC 00-A-08-U
- Osteotomy Plate for Heel 5 Holes 24 x 10 mm - OIC 00-A-10-U
Metatarsophalangeal Combination Plate - MTP

Used in procedures for treatment of Hallux Rigidus, by combination of the first metatarsophalangeal joint.

• Color: golden (right) and pink (left)
• Thickness: 1.4 mm
• Plate size: S and M
• Direction: right and left

Models
- Metatarsophalangeal Combination Plate 6 Holes Right 45 mm - MTP 05-D-00-U
- Metatarsophalangeal Combination Plate 6 Holes Left 45 mm - MTP 05-E-00-U
- Metatarsophalangeal Combination Plate 6 Holes Right 50 mm - MTP 50-D-00-U
- Metatarsophalangeal Combination Plate 6 Holes Left 50 mm - MTP 50-E-00-U

Combination Plate for Cuneiform Metatarsus - MTC

Used in bone combination procedures medial cuneiform and first metatarsus.

• Color: golden (right) and pink (left)
• Thickness: 1.4 mm
• Plate size: S and M
• Direction: right and left

Models
- Cuneiform Metatarsus Combination Plate 5 Holes Right 39 mm - MTC 05-D-00-U
- Cuneiform Metatarsus Combination Plate 5 Holes Left 39 mm - MTC 05-E-00-U
- Cuneiform Metatarsus Combination Plate 5 Holes Right 42 mm - MTC 50-D-00-U
- Cuneiform Metatarsus Combination Plate 5 Holes Left 42 mm - MTC 50-E-00-U

Medial Columnar Combination Plate - MCF

Used in treatment for the foot of Charcot, through the combination of navicular bones, cuneiform medial and first metatarsus.

• Color: golden (right) and pink (left)
• Thickness: 1.4 mm
• Plate size: S and M
• Direction: right and left

Models
- Medial Columnar Combination Plate 9 Holes Right 61 mm - MCF 05-D-00-U
- Medial Columnar Combination Plate 9 Holes Left 61 mm - MCF 05-E-00-U
- Medial Columnar Combination Plate 9 Holes Right 66 mm - MCF 50-D-00-U
- Medial Columnar Combination Plate 9 Holes Left 66 mm - MCF 50-E-00-U
Tarsometatarsal Combination Plate - TMT

Used in Lisfranc fracture treatment procedures, through combinations of the tarsal and metatarsal bones.

- Color: golden (right) and pink (left)
- Thickness: 1,4 mm
- Plate size: S and M
- Direction: right and left
- Insertion in the metatarsals: 1° and 2° - 2° and 3°
- Geometry: curved and flat

Models
- Tarsometatarsal Combination Plate 12 Curved 4 Holes Left 36 mm - TMT 05-E-12-C
- Tarsometatarsal Combination Plate 12 Curved 4 Holes Right 36 mm - TMT 05-D-12-C
- Tarsometatarsal Combination Plate 12 Curved 4 Holes Left 41 mm - TMT 50-E-12-C
- Tarsometatarsal Combination Plate 12 Curved 4 Holes Right 41 mm - TMT 50-D-12-C
- Tarsometatarsal Combination Plate 12 Flat 4 Holes Left 36 mm - TMT 05-E-12-P
- Tarsometatarsal Combination Plate 12 Flat 4 Holes Right 36 mm - TMT 05-D-12-P
- Tarsometatarsal Combination Plate 12 Flat 4 Holes Left 41 mm - TMT 50-E-12-P
- Tarsometatarsal Combination Plate 12 Flat 4 Holes Right 41 mm - TMT 50-D-12-P

Notes: Tarsometatarsal Combination Plate 1st and 2nd

- Tarsometatarsal Combination Plate 23 Curved 4 Holes Left 35 mm - TMT 05-E-23-C
- Tarsometatarsal Combination Plate 23 Curved 4 Holes Right 35 mm - TMT 05-D-23-C
- Tarsometatarsal Combination Plate 23 Curved 4 Holes Left 38 mm - TMT 50-E-23-C
- Tarsometatarsal Combination Plate 23 Curved 4 Holes Right 38 mm - TMT 50-D-23-C
- Tarsometatarsal Combination Plate 23 Flat 4 Holes Left 35 mm - TMT 05-E-23-P
- Tarsometatarsal Combination Plate 23 Flat 4 Holes Right 35 mm - TMT 05-D-23-P
- Tarsometatarsal Combination Plate 23 Flat 4 Holes Left 38 mm - TMT 50-E-23-P
- Tarsometatarsal Combination Plate 23 Flat 4 Holes Right 38 mm - TMT 50-D-23-P

Notes: Tarsometatarsal Combination Plate 2nd and 3rd

Universal Single Plate - PSU

Used in a variety of bone fracture and combination procedures.

- Color: aqua (single)
- Thickness: 1,4 mm
- Plate size: S, M and L
- Number of holes: 2 and 3
- Form of stabilization: compression and fixation

Models
- Universal Single Plate Compression 2 Holes 21 mm - PSU 05-A-02-C
- Universal Single Plate Compression 2 Holes 29 mm - PSU 50-A-02-C
- Universal Single Plate Fixing 2 Holes 27 mm - PSU 50-A-02-F
- Universal Single Plate Compression 3 Holes - PSU 95-A-03-C
- Universal Single Plate Compression 2 Holes 37 mm - PSU 95-A-02-C
Y Universal Plate - PCY

Used in a variety of bone fracture and combination procedures.
- Color: golden (right) and pink (left)
- Thickness: 1.4 mm
- Plate size: S and M
- Direction: right and left

Models
- Y Universal Plate 4 Holes Right 37 mm - PCY 05-D-00-U
- Y Universal Plate 4 Holes Left 37 mm - PCY 05-E-00-U
- Y Universal Plate 4 Holes Right 53 mm - PCY 50-D-00-U
- Y Universal Plate 4 Holes Left 53 mm - PCY 50-E-00-U

Universal Double Plate - PCU

Used in a variety of bone fracture and combination procedures.
- Color: aqua (single), golden (right) and pink (left)
- Thickness:
  - PCU 00-A-14-U / PCU 00-A-11-U / PCU 00-A-08-U
    1.8 mm (flaps) and 2.3 mm (body)
  - Other plates: 1.8 mm
- Direction: single, right and left
- Number of holes: 4, 5, 6, 7, 8, 11 and 14

Models
- Universal Double Plate 4 Holes Right 29 mm - PCU 00-D-04-U
- Universal Double Plate 4 Holes Left 29 mm - PCU 00-E-04-U
- Universal Double Plate 5 Holes Right 35 mm - PCU 00-D-05-U
- Universal Double Plate 5 Holes Left 35 mm - PCU 00-E-05-U
- Universal Double Plate 6 Holes Right 48 mm - PCU 00-D-06-U
- Universal Double Plate 6 Holes Left 48 mm - PCU 00-E-06-U
- Universal Double Plate 7 Holes 60 mm - PCU 00-A-07-U
- Universal Double Plate 8 Holes 66 mm - PCU 00-A-08-U
- Universal Double Plate 11 Holes 94 mm - PCU 00-A-11-U
- Universal Double Plate 14 Holes 122 mm - PCU 00-A-14-U
Posterior Heel Plate - PPC

Used in procedures to treat fractures in the calcaneus.

- Color: golden (right) and pink (left)
- Thickness: minimum 1.4 mm and maximum 2.3 mm
- Plate size: S, M, and L
- Direction: right and left

Models
- Posterior Heel Plate 13 Holes Left 59 mm - PPC 05-E-00-U
- Posterior Heel Plate 13 Holes Right 59 mm - PPC 05-D-00-U
- Posterior Heel Plate 13 Holes Left 70 mm - PPC 50-E-00-U
- Posterior Heel Plate 13 Holes Right 70 mm - PPC 50-D-00-U
- Posterior Heel Plate 14 Holes Left 80 mm - PPC 95-E-00-U
- Posterior Heel Plate 14 Holes Right 80 mm - PPC 95-D-00-U

Posterior Single Heel Plate - PSC

Used in procedures to treat fractures in the calcaneus, through a percutaneous approach.

- Color: golden (right) and pink (left)
- Thickness: minimum 1.4 mm and maximum 2.3 mm
- Plate size: S, M, and L
- Direction: right and left

Models
- Posterior Single Heel Plate 8 Holes Left 59 mm - PSC 05-E-00-U
- Posterior Single Heel Plate 8 Holes Right 59 mm - PSC 05-D-00-U
- Posterior Single Heel Plate 8 Holes Left 70 mm - PSC 50-E-00-U
- Posterior Single Heel Plate 8 Holes Right 70 mm - PSC 50-D-00-U
- Posterior Single Heel Plate 9 Holes Left 80 mm - PSC 95-E-00-U
- Posterior Single Heel Plate 9 Holes Right 80 mm - PSC 95-D-00-U
FEET RZ TRAUMA INSTRUMENT SET

Provides the surgeon with the necessary instruments for the implantation of the items destined to the treatment of traumas of the System of Rigid Fixing Plates Feet RZ. Each item was developed for a specific purpose during surgery.

Support Instrument Tray
- Quick Coupling Cable 4,5 mm
- Quick Coupling Driver T Cable 4,5 mm
- Plate Shaper (2 units)
- Freer Paddle
- Periosteal Detacher 7 mm
- Strong Single Gilles Hook
- Backaus Reduction Forceps with Rack 13 cm
- Bone Fixation Clamp Forceps (Spanish)

- Adson Forceps with Knurl
- Adson Forceps with Tooth (1x2)
- Hohmann Fine-Tipped Spreader for Bone Surgery - nº 03
- Hohmann Fine-Tipped Spreader for Bone Surgery - nº 01
- Weitlaner Autostatic Spreader with teeth Rhombus - 14 cm 2x3 teeth
- Bruns Bone Curet nº 0
- Bruns Bone Curet nº 3
- Quick Hitch Chuck Guides

Instruments
Bracket for Screws
Note: Locking Bolt and Non-Locking Bolt Screws are not part of the Feet RZ Trauma Instrument Kit.

Trauma Plate Tray
Note: Rigid Plates are not part of the Feet RZ Trauma Instrument Kit.

Trauma Instrument Tray
• Posterior Single Heel Guide Plate 05-D
• Posterior Single Heel Guide Plate 05-E
• Posterior Single Heel Guide Plate 50-D
• Posterior Single Heel Guide Plate 50-E
• Posterior Single Heel Guide Plate 95-D
• Polyaxial Drilling Guide 3,5 mm
• Polyaxial Drilling Guide 4,0 mm
• Drilling Guide with Cable 2,7 mm
• Drilling Guide with Cable 3,5 mm
• Drilling Guide with Cable 4,0 mm
• Straight Drilling Guide 2,7 mm
• Straight Drilling Guide 3,5 mm
• Straight Drilling Guide 4,0 mm
• Depth Gauge 70 mm

General Instrument Tray
• Solid Hexalobular 10 Screw Driver 70 mm
• Bone Burr 2,7 mm
• Bone Burr 3,5 mm
• Bone Burr 4,0 mm
• Drilling Guide with Scale 2,7 mm
• Drilling Guide with Scale 3,5 mm
• Drilling Guide with Scale 4,0 mm
• Polyaxial Drilling Guide 2,7 mm

Heel Box
• Positioner Pin Ø 4,5 mm

Images merely illustrative
FEET RZ OSTEOTOMY AND ARTHRODESIS INSTRUMENT SET

Provides the surgeon with the instruments necessary for the implantation of the items destined to the accomplishment of osteotomies and arthrodesis of the Rz Feet Rigid Plates System. Each item was developed for a specific purpose during surgery.

Instruments

Osteotomy and Arthrodesis Instrument Tray
- Metatarsal Elevator
- Osteotome for Finishing
- Osteotome for Edging
- Spacing Meter for Osteotomy
- Metatarsal Reamer 16 mm
- Metatarsal Reamer 18 mm
- Metatarsal Reamer 20 mm
- Metatarsal Reamer 22 mm
- Falangeal Reamer 16 mm
- Falangeal Reamer 18 mm
- Falangeal Reamer 20 mm
- Falangeal Reamer 22 mm
- Osteotomy Template of Cotton and Evans
- Osteotomy Template for Bunion - A
- Osteotomy Template for Bunion - B
- Osteotomy Template for Heel

General Instrument Tray
- Solid Hexalobular 10 Screw Driver 70 mm
- Bone Burr 2,7 mm
- Bone Burr 3,5 mm
- Bone Burr 4,0 mm
- Drilling Guide with Scale 2,7 mm
- Drilling Guide with Scale 3,5 mm
- Drilling Guide with Scale 4,0 mm
- Polyaxial Drilling Guide 2,7 mm
- Polyaxial Drilling Guide 3,5 mm
- Polyaxial Drilling Guide 4,0 mm
- Drilling Guide with Cable 2,7 mm
- Drilling Guide with Cable 3,5 mm
- Drilling Guide with Cable 4,0 mm
- Straight Drilling Guide 2,7 mm
- Straight Drilling Guide 3,5 mm
- Straight Drilling Guide 4,0 mm
- Depth Gauge 70 mm
Support Instrument Tray
- Quick Coupling Cable 4.5 mm
- Quick Coupling Driver T Cable 4.5 mm
- Plate Shaper (2 units)
- Freer Paddle
- Periosteal Detacher 7 mm
- Strong Single Gilles Hook
- Backaus Reduction Forceps with Rack 13 cm
- Bone Fixation Clamp Forceps (Spanish)
- Adson Forceps with Knurl
- Adson Forceps with Tooth (1x2)
- Hohmann Fine-Tipped Spreader for Bone Surgery - nº 03
- Hohmann Fine-Tipped Spreader for Bone Surgery - nº 01
- Weitlaner Autostatic Spreader with teeth Rhombus - 14 cm 2x3 teeth
- Bruns Bone Curet nº 0
- Bruns Bone Curet nº 3
- Spacer for Osteotomy
- Joint Retractor
- Quick Hitch Chuck Guides

Images merely illustrative
NitFix RAZEK

Developed for fixation and stabilization of the bones of the upper and lower extremities, due to its specific geometry, the NitFix Razek allows the surgeon to perform the bone consolidation of the fragments, in the correct anatomical position. It is an implantable component that provides a means of osteosynthesis in the treatment of fractures, osteotomies and arthrodesis.

**Technical Specifications**

- Made of Superelastic Nitinol Alloy BB (ASTM F2063)
- Several sizes to fit the different anatomical structures
- Elastic properties at room temperature
- Low profile design, reducing soft tissue irritation
- Constant bone compression after implantation

*Images merely illustrative*

<table>
<thead>
<tr>
<th>Graphic Design</th>
<th>Model Description</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Graphic Design](1,5 mm)</td>
<td>NitFix Razek 1,5 x 9 x 7 x 7</td>
<td>1,5 mm</td>
</tr>
<tr>
<td>![Graphic Design](AGS 09-07-07)</td>
<td>NitFix Razek 1,5 x 9 x 10 x 10</td>
<td>1,5 mm</td>
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<tr>
<td>![Graphic Design](AGS 11-10-10)</td>
<td>NitFix Razek 1,5 x 11 x 10 x 10</td>
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<td>![Graphic Design](AGS 11-15-13)</td>
<td>NitFix Razek 1,5 x 11 x 15 x 13</td>
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<td>![Graphic Design](AGS 13-10-10)</td>
<td>NitFix Razek 1,5 x 13 x 10 x 10</td>
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<td>![Graphic Design](AGS 15-12-12)</td>
<td>NitFix Razek 1,5 x 15 x 12 x 12</td>
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<td>![Graphic Design](AGL 15-15-15)</td>
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<tr>
<td>![Graphic Design](AGL 25-20-20)</td>
<td>NitFix Razek 2,0 x 25 x 20 x 20</td>
<td>2,0 mm</td>
</tr>
</tbody>
</table>
The NitFix Razek Instrumental Set has the function of providing the surgeon with the tools needed to quickly and accurately deploy NitFix Razek. The kit consists of the following items:

- Nitifix Sizing Guide
- AGS/AGA 9 Drilling Guide
- AGS/AGA 11 Drilling Guide
- AGS 13 Drilling Guide
- AGS 15 Drilling Guide
- AGL 15 Drilling Guide
- AGL 18 Drilling Guide
- AGL 20 Drilling Guide
- AGL 25 Drilling Guide
- Quick Hitch Chuck Guides
- AGS/AGA Bone Burr (2 units)
- AGL Bone Burr (2 units)

- AGS/AGA Positioner Pin (2 units)
- AGL Positioner Pin (2 units)
- AGS/AGA Insertion Tool
- AGL Insertion Tool
- AGS/AGA Tamp
- AGL Tamp
- NitFix Cable
- Adson Forceps with Knurl
- Depth Gauge
- Sterilization Tray

Images merely illustrative
RAZEK CANNULATED COMPRESSION SCREW

They are screws for bone synthesis made of titanium alloy ASTM F136. They have features of non-rigid fixation and hexalobular fit, are cannulated, non-resorbable and self-sealing. They are designed to offer the surgeon the possibility of fast and precise fixation and compression in fractures, fusions and corrections of deformities. The MM Razek Cannulated Compression Screw is used in fractures with mini and micro fragments, while PG Razek Cannulated Compression Screws are used in small and large fragments.

With head
- Spherical head with low profile
- Compatible with MM and PG Razek Compression Screw Washer
- Together with the washer, it allows a greater distribution of the contact force with the bone surface

Double thread
- Headless design, in which the proximal end is conical and threaded
- Total screw housing, minimizing prominence and tissue irritation
- Provides excellent inter-fragmentation compression during insertion
- Excellent intra-fragmentation compression during insertion
Images merely illustrative

<table>
<thead>
<tr>
<th>Distal Thread Diameter</th>
<th>Screw Type</th>
<th>Head Diameter</th>
<th>Shaft Diameter</th>
<th>Thread Length (minimum➡️maximum)</th>
<th>Size (minimum➡️maximum)</th>
<th>Washer Diameter</th>
<th>Wire Guide</th>
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</thead>
<tbody>
<tr>
<td>2,2 mm</td>
<td>With head</td>
<td>3,6 mm</td>
<td>1,8 mm</td>
<td>4,0 mm ➡️ 15 mm</td>
<td>10 mm ➡️ 40 mm</td>
<td>5,6 mm</td>
<td>0,9 x 100 mm</td>
</tr>
<tr>
<td></td>
<td>Double thread</td>
<td>3,0 mm</td>
<td></td>
<td></td>
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</table>

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<tbody>
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<td>3,0 mm</td>
<td>With head</td>
<td>4,4 mm</td>
<td>2,2 mm</td>
<td>3,5 mm ➡️ 15 mm</td>
<td>10 mm ➡️ 40 mm</td>
<td>6,6 mm</td>
<td>1,1 x 100 mm</td>
</tr>
<tr>
<td></td>
<td>Double thread</td>
<td>3,8 mm</td>
<td></td>
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<tr>
<td>Distal Thread Diameter</td>
<td>Screw Type</td>
<td>Head Diameter</td>
<td>Shaft Diameter</td>
<td>Thread Length</td>
<td>Size</td>
<td>Washer Diameter</td>
<td>Wire Guide</td>
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<tr>
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</tr>
<tr>
<td>4,5 mm</td>
<td>With head</td>
<td>5,9 mm</td>
<td>3,1 mm</td>
<td>7,0 mm total</td>
<td>20 mm ⨅ 70 mm</td>
<td>8,8 mm</td>
<td>1,6 x 150 mm</td>
</tr>
<tr>
<td></td>
<td>Double thread</td>
<td>5,5 mm</td>
<td></td>
<td>7,0 mm 28 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5,5 mm</td>
<td>With head</td>
<td>6,9 mm</td>
<td>3,7 mm</td>
<td>7,0 mm total</td>
<td>20 mm ⨅ 80 mm</td>
<td>10,6 mm</td>
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</tr>
<tr>
<td></td>
<td>Double thread</td>
<td>6,6 mm</td>
<td></td>
<td>8,0 mm 32 mm</td>
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<td></td>
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<tr>
<td>7,0 mm</td>
<td>With head</td>
<td>8,9 mm</td>
<td>4,8 mm</td>
<td>16 mm total</td>
<td>40 mm ⨅ 110 mm</td>
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<tr>
<td></td>
<td>Double thread</td>
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<td></td>
<td>16 mm 32 mm</td>
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</table>
RAZEK CANNULATED COMPRESSION SCREW INSTRUMENT SET

The Razek Cannulated Compression Screw Instrument Set has the function of providing the surgeon with the necessary instruments for the implantation of the MM (2,2) and PG (3,0) Razek Cannulated Compression Screws in the fixation of fractures, osteoarthritis or deformities in bones with mini and micro or small and large fragments.

Images merely illustrative

Instruments

- Solid Hexalobular 7 Screw Driver 70 mm
- Solid Hexalobular 10 Screw Driver 70 mm
- Hexalobular 7 Canulated Driver 70 mm
- Hexalobular 10 Canulated Driver 70 mm
- Burr for Compression Screw 2,2
- Burr for Compression Screw 3,0
- Drilling Guide 2,2
- Drilling Guide 3,0
- Compression Screw Countersink 2,2
- Compression Screw Countersink 3,0
- Adson Forceps
- Verbrugge Forceps
- Quick Coupling Cable 4,5 mm
- Quick Hitch Chuck Guides
- Periosteal Elevator
- Perforation Restrictor
- Depth Gauge 40 mm
- Sterilization Tray
RAZEK SNAP OFF SCREW

The Razek Snap Off Screw family comprises osteosynthesis screws that have rigid fixture and non-absorbable characteristics. The screws have a system that breaks at the end of insertion. They are used in fractures with small fragments.

Images merely illustrative

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Razek Snap Off Screw D2,0 X 11,5 mm</td>
<td>Diameter 2,0 mm, Length 11,5 mm</td>
</tr>
<tr>
<td>Razek Snap Off Screw D2,0 X 12,5 mm</td>
<td>Diameter 2,0 mm, Length 12,5 mm</td>
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<tr>
<td>Razek Snap Off Screw D2,0 X 13,5 mm</td>
<td>Diameter 2,0 mm, Length 13,5 mm</td>
</tr>
<tr>
<td>Razek Snap Off Screw D2,7 X 13,5 mm</td>
<td>Diameter 2,7 mm, Length 13,5 mm</td>
</tr>
<tr>
<td>Razek Snap Off Screw D2,7 X 15,5 mm</td>
<td>Diameter 2,7 mm, Length 15,5 mm</td>
</tr>
<tr>
<td>Razek Snap Off Screw D2,7 X 17,5 mm</td>
<td>Diameter 2,7 mm, Length 17,5 mm</td>
</tr>
</tbody>
</table>

Instrumental Set for Snap Off Screw

- Adson Forceps
- Verbrugge Forceps
- Metatarsal Elevator
- Quick Hitch Key
- Tip for Snap Off Screws
- Tip for Snap Off Screws Chuck fitting
- Depth Gauge
- Sterilization Tray
The Power C Straight Drill, along with the Burrs for Percutaneous Foot Surgery and the RZ System Foot Deviation Instrumental Set, are minimally invasive devices for percutaneous foot surgery.
Technical Specifications - Power C Straight Drill

- Power socket system
- Maximum speed: 30,000 rpm

Images merely illustrative

Simulation of Percutaneous Surgery for Hallux Valgus Treatment

RAZEK UPPER DISTRACTION HOOK

The Razek Upper Distraction Hook is a device intended to assist in tissue retraction, according to the needs during surgical procedures.

Models

- Razek Upper Distraction Hook 20 x 20 x 5 - 2
  This model contains 2 hook units 20 x 20 x 5 mm with a cord 250 mm

- Razek Upper Distraction Hook 20 x 20 x 5 - 4
  This model contains 4 hook units 20 x 20 x 5 mm with a cord 250 mm

- Razek Upper Distraction Hook 30 x 30 x 8 - 2
  This model contains 2 hook units 30 x 30 x 8 mm with a cord 250 mm

- Razek Upper Distraction Hook 30 x 30 x 8 - 4
  This model contains 4 hook units 30 x 30 x 8 mm with a cord 250 mm

- Razek Upper Distraction Hook 40 x 30 x 12 - 2
  This model contains 2 hook units 40 x 30 x 12 mm with a cord 350 mm

- Razek Upper Distraction Hook 40 x 30 x 12 - 4
  This model contains 4 hook units 40 x 30 x 12 mm with a cord 350 mm

- Razek Upper Distraction Hook 50 x 40 x 15 - 2
  This model contains 2 hook units 50 x 40 x 15 mm with a cord 350 mm

- Razek Upper Distraction Hook 50 x 40 x 15 - 4
  This model contains 4 hook units 50 x 40 x 15 mm with a cord 350 mm

Images merely illustrative
RZ WIREGUIDE

Has the function of guiding the instruments through the access portal.

Technical Specifications

- Sterilization: gamma ray
- Sterilization expires in: 3 years

Images merely illustrative

<table>
<thead>
<tr>
<th>Models</th>
<th>Diameter</th>
<th>Lenght</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>minimum</td>
<td>maximum</td>
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<tr>
<td>Switch Tip RZ Guide Wire</td>
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</tr>
<tr>
<td>Switch TP with Thread RZ Guide Wire</td>
<td>2,0 mm</td>
<td>2,4 mm</td>
</tr>
<tr>
<td>Double Switch Tip with Thread RZ Guide Wire</td>
<td>2,0 mm</td>
<td>2,4 mm</td>
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<tr>
<td>Diamond Tip RZ Guide Wire</td>
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<tr>
<td>Double Diamond Tip RZ Guide Wire</td>
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<tr>
<td>Diamond Tip with Thread RZ Guide Wire</td>
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<td>2,4 mm</td>
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<tr>
<td>Double Diamond Tip with Thread RZ Guide Wire</td>
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<td>Calibrated RZ Guide Wire</td>
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<td>Diamond Tip Rigid RZ Guide Wire</td>
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<td>Drill Tip Rigid RZ Guide Wire</td>
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<td>Drill Tip Three Holes RZ Guide Wire</td>
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<td>Diamond Tip Three Holes RZ Guide Wire</td>
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<td>3,0 mm</td>
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<tr>
<td>Drill Tip Four Holes RZ Guide Wire</td>
<td>2,0 mm</td>
<td>3,0 mm</td>
</tr>
<tr>
<td>Diamond Tip Four Holes RZ Guide Wire</td>
<td>2,0 mm</td>
<td>3,0 mm</td>
</tr>
</tbody>
</table>
TRIPLET HD

Triplet HD is a device designed to provide the complete solution for surgical procedures, i.e. to illuminate, capture and record images, and to rotate a slide for arthroscopy by means of a motor. The equipment has display with touch screen, through which the professional visualizes and executes all the configurations and functions of the same.

• Voltage: 100 - 240 V~
• Imaging system: CCD 1/3"
• Video output: connector DVI-D or BNC or Mini-DIN4
• Standard connection for image recording: A-type USB
• Compatible USB flash drive devices
  • File system: FAT32
  • Capacity: up to 16GB
• Image format: 16:9
• Resolution: 1080 lines
• Minimum sensitivity: 0,1 Lux
• Led power: 75W
• Light intensity: 3.600 lumens
• Speed (oscillating mode)
  • Min.: 500 rpm and max.: 3.000 rpm
• Speed (direct and reverse modes)
  • Min.: 500 rpm and max.: 8.000 rpm (shaver handpiece)
  • Min.: 500 rpm and max.: 10.000 rpm (mini shaver handpiece)

Images merely illustrative
MEDICAL MONITOR

Reproduces accurate and high fidelity color images in surgical endoscopic medical procedures and general diagnostics. Can be used with Duet HD and Triplet HD equipment.

Technical Specifications
- Analog and digital video input
- Anti-reflex filter
- Height and rotation adjustment (portrait or landscape)
- Design that allows easy cleaning and disinfection
- VESA fastening standard, compatible with operating rooms

Models:
- Monitor 19” (HD) - 1280 x 1024 lines (medical grade)
- Monitor 23.6” (FHD) - 1920 x 1080 lines (medical grade)

Images merely illustrative
DUET HD

Duet HD is a device designed to provide light, capture and record images in endoscopic surgical procedures and general diagnostics. The equipment has display with touch screen, through which the professional visualizes and executes all the configurations and functions of the same.

- Voltage: 100 - 240 V~
- Image System: CCD 1/3"
- Video output: connector DVI-D or BNC or Mini-DIN4
- Standard connection for image recording: A-type USB
- Compatible USB flash drive devices
  - File system: FAT32
  - Resolution: up to 16GB
- Image format: 16:9
- Resolution: 1080 lines
- Minimum sensitivity: 0.1 Lux
- Led power: 75W
- Light intensity: 3.600 lumens

Images merely illustrative
OSTEOMAX

Osteomax is a machine suitable for microshaving of tissue and bone thinning in general. It has a Micro Electric Motor, which must be used with the Power Micro Saws, Power C Drills and Razek Mini Drill. It also allows the connection of a handpiece, which must be used with Mini Microdebridement Cannula.

Technical Specifications

- Voltage: 100 - 240 V~, 50/60 Hz
- Images merely illustrative

Micro Electric Motor
- Speed (direct and reverse modes)
  - Min.: 2.000 rpm and max.: 45.000 rpm

Handpiece
- Speed (oscillating mode)
  - Min.: 500 rpm and max.: 3.000 rpm
- Speed (direct and reverse modes)
  - Min.: 500 rpm and max.: 8.000 rpm
RAZEK PUMP EVOLUTION - RPE-I

Together with the Evolution Irrigation Kit, the Razek Pump Evolution RPE-I is indicated for endoscopic procedures that require good visibility and easy handling. This equipment irrigates the interior of the cavity guaranteeing its clarity and a constant distension. Its new interface features a touchscreen liquid crystal display that provides easy and convenient control, and its light buttons provide intuitive use throughout the procedure.

Razek Pump Evolution - RPE-I
- Maximum Flow: 2 L/min
- Pressure Adjustment Range: 0 to 150 mmHg
- Voltage: 100 - 240V~, 50/60 Hz
- Dimensions: 18 x 26 x 32 cm
  (Height x Width x Depth)
- Net Weight: 6.3 kg

Images merely illustrative

Evolution Disposable Irrigation Set
- Sterilization: ethylene oxide
- Sterilization expires in: 2 years
- Single-use product

Models:
- 2 Way Evolution Disposable Irrigation Set
- 4 Way Evolution Disposable Irrigation Set
RAZEK CUFF
INSUFFLATOR - ITR-I

Indicated for blocking blood flow of extremities in surgical procedures. The Razek Cuff Insufflator, together with the Razek Disposable Tourniquet, allows pressure setting and application time to be automatically controlled throughout the entire procedure. Its parameters are configured through a touch-screen liquid crystal display, in which you can view operating information such as pressure exerted and elapsed time.

Technical Specifications

- Voltage: 100 - 240V~, 50/60 Hz
- Pressure Adjustment Range: 50 to 600 mmHg
- Dimensions: 12 x 25 x 25 cm (Height x Width x Depth)
- Net Weight: 2.7 kg

Images merely illustrative

Razek Disposable Tourniquet

Disposable used in procedures with the function of blocking blood flow, thus allowing a faster and more accurate surgery. The pressure exerted by the tourniquet is sufficient to prevent arterial blood flow from the limb (upper or lower).

- Models: P, M and G
- Sterilization: ethylene oxide
- Sterilization expires in: 2 years
- Single-use product

Images merely illustrative
RZ TROCAR and and RAZEK ARTHROSCOPY ENDOSCOPES

The purpose of RZ Trocar is conducting and handling the Razek Arthroscopy Endoscopes. More over, it allows fluid irrigation and suctioning and also insufflate cavities and joints. Razek Arthroscopy Endoscopes are medical instruments used to view openings and joints during arthroscopic surgeries. These instruments will be used together with Duet, Triplet or other equipment intended for surgeries that require clear images in order to perform the surgical procedure.

Technical Specifications - Razek Arthroscopy Endoscopes
- Diameter: 2.7 mm
- Length: 110 mm
- Angle: 30°

Technical Specifications - RZ Trocar
- Length: 110 mm
- Angle: 30°
- Blunt with rhombus-shaped tip

Images merely illustrative
RAZEK ARTHROSCOPY INSTRUMENT

The Razek Arthroscopy Instrument aims to provide the surgeon with the necessary tool to perform the minimally invasive spine procedures.

Technical Specifications

• Length: 110 mm
• Material: stainless steel

Models

• R017 - Grasper, straight tip, 3.4 mm bite width, cupped
• R038 - Punch, straight tip, 1.7 mm bite width
• R042 - Punch, up 15° tip, 1.7 mm bite width, curved left 15°
• R044 - Punch, up 15° tip, 1.7 mm bite width, curved right 15°
TFCKit

It has the function of assisting the suture of the Triangular Fibrocartilage Complex (TFCC) in minimally invasive surgeries.

Technical Specifications

- Sterilization: gamma ray
- Sterilization expires in: 3 years
- Single-use product

Technical Specifications
MINI MICRODEBRIDEMENT CANNULA

Mini Microdebridement Cannula is used in small joints arthroscopic procedures (wrist and ankle), along with Shaver Handpiece.

Technical Specifications

- Length available: 80 mm
- Sterilization: gamma ray
- Sterilization expires in: 3 years
- Single-use product

Images merely illustrative
AGGRESSIVE CANNULA FOR ANKLE IMPINGEMENT

Used in the microdebridation of bone tissues in surgical procedures of the foot.

Technical Specifications
• Diameters inner / outer available: 2,0 / 3,5 - 2,4 /4,5
• Length available: 140 mm
Images merely illustrative

MINI SUCTION DISSECTOR

It has the function to perform ablation and coagulation of tissues with concomitant aspiration in surgical procedures.

Technical Specifications
• Sterilization: gamma ray
• Sterilization expires in: 3 years
• Single-use product

Models
• 80 x 0°
• 80 x 15°
• 110 x 0°
• 110 x 15°
• 150 x 15°
RAZEK DISPOSABLE TIP and RAZEK DISSECTOR TIP

The families of ablators manufactured by Razek are used in monopolar arthroscopic surgical procedures. They are indicated for ablation, coagulation and cutting of tissue.

Technical Specifications

- Sterilization: gamma ray
- Sterilization expires in: 3 years
- Single-use product

Images merely illustrative
RAZEK BLADE PRO and STC RAZEK BLADE KNIFE

The Razek Blade Pro instrument, together with STC Razek Blade Knife, is used in carpal tunnel syndrome surgery.

Razek Blade Pro
- Accessories: dilator (6.1 and 7.4 mm)
  - ruler
  - rosen needle
  - sterilization case
  - cannula

STC Razek Blade Knife
- Sterilization: gamma ray
- Sterilization expires in: 3 years
- Single-use product

Images merely illustrative

Simulation of Carpal Tunnel Syndrome surgery

Technical Specifications
RAZEK TRACTION TOWER and RAZEK FINGER TRAPS

The Razek Traction Tower and Razek Finger Traps are devices designed to perform traction and distribution of power between the fixed fingers, allowing the surgeon to position the patient according to the demands of the surgical procedures on the wrist or elbow.

Technical Specifications

Models - Razek Finger Traps
- Pediatric Single Razek Finger Trap
- Pediatric Double Razek Finger Trap
- Small Single Razek Finger Trap
- Small Double Razek Finger Trap
- Medium Single Razek Finger Trap

- Medium Double Razek Finger Trap
- Large Single Razek Finger Trap
- Large Double Razek Finger Trap
- Extra Large Single Razek Finger Trap
- Extra Large Double Razek Finger Trap

Images merely illustrative
DISPOSABLE KIT FOR RAZEK TRACTION TOWER

The Disposable Kit for Razek Traction Tower is composed by devices which, when used in conjunction with the Razek Traction Tower, are used to perform traction and distribution of power between the fingers, allowing the surgeon to position the patient according to the demands of the surgical procedures on the wrist or elbow.

Technical Specifications

Models
- Disposable Kit for Razek Traction Tower S
- Disposable Kit for Razek Traction Tower M
- Disposable Kit for Razek Traction Tower L

Images merely illustrative
FOOT RZ ANKLE DISTRACTION STRAP

The Foot RZ Ankle Distraction Strap is a device designed for the distribution of foot’s weight distribution and traction, allowing the surgeon to position the patient as required for foot and ankle surgical procedures.

Technical Specifications

- Model: single model
- Sterilization: gamma ray
- Sterilization expires in: 3 years
- Single-use product

Images merely illustrative
RAZEK DISPOSABLE IRRIGATION SET

Razek Pump and RZ Pump Disposable Irrigation Set are devices designed to provide joint distension and irrigation for visibility and ease of instrumentation manipulation in endoscopic surgical procedures.

Technical Specifications

- Sterilization: ethylene oxide
- Sterilization expires in: 2 years
- Single-use product

Images merely illustrative
POWER C DRILLS and POWER MICRO SAWS

The Power C Drills, Power Micro Saws and the Punch Handpiece 90° are used in conjunction with the Micro Motor or and Power Turbine.

Images merely illustrative

Power Micro Saws
- Power socket system
- It must be used along with Razek Micro Saw Blades

Power C Drills
- Power socket system
- It must be used along with Razek Surgical Drills or Razek Diamond Burrs

Razek Mini Power Drill
- Power socket system
- It must be used along with Razek Surgical Drills or Razek Diamond Burrs

Punch Handpiece 90°
- Power socket system
- It must be used along with Razek Surgical Drills or RZ Wireguide
- Cannulation Ø 2,5 mm
RAZEK SURGICAL BURRS and RAZEK DIAMOND BURRS

• Models BRD
  Round Drills intended for bone cutting and mild finishing.
  Handle Length: 44,5 - 55 - 70 - 95 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 1,0 - 1,4 - 1,8 - 2,3 - 2,7 - 3,1 - 3,5 - 4,0 - 4,5 - 5,0 - 6,0 - 7,0 (mm)

• Models BCR
  Quick cutting round Drills intended to remove bone in large amounts.
  Handle Length: 44,5 - 55 - 70 - 115 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 1,0 - 1,4 - 1,8 - 2,3 - 2,7 - 3,1 - 3,5 - 4,0 - 4,5 - 5,0 - 6,0 - 7,0 (mm)

• Models RAZ
  Lateral bone cutting drills.
  Handle Length: 44,5 - 55 - 70 - 95 - 115 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 1,5 - 1,8 - 2,1 - (mm)

• Models FRL
  Laminated Drills for bone smoothing.
  Handle Length: 44,5 - 55 - 70 - 95 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 5,0 - 7,0 (mm)

• Models BCL
  Lateral bone cutting drills.
  Handle Length: 44,5 - 55 - 70 - 95 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 2,1 (mm)

• Models FAD
  Drills for extensive bone scraping.
  Handle Length: 44,5 - 55 - 70 - 95 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 5,0 - 7,0 (mm)

• Models ENT
  Cone-shaped drill used to smooth orifices.
  Handle Length: 44,5 - 55 - 70 - 95 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 4,0 - 4,5 - 6,0 (mm)

• Models BP
  Drills to perforate bone for subsequent insertion of plates and screws.
  Handle Length: 44,5 - 55 - 70 - 95 - 110 - 115 - 120 - 125 - 150 - 155 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 1,0 - 1,1 - 1,2 - 1,3 - 1,4 - 1,5 - 1,6 - 1,7 - 1,8 - 1,9 - 2,0 - 2,1 - 2,2 - 2,3 - 2,7 - 3,2 - 3,5 (mm)

• Models BHC
  Diamond-shaped drill bits intended for bone smoothing and polishing.
  Handle Length: 44,5 - 55 - 70 - 95 - 125 - 150 - 180 (mm)
  Sockets: R - H - J - T - O - S - D - U - Q - K - Y
  Burr Diameter: 1,0 - 1,4 - 1,5 - 1,8 - 2,0 - 2,3 - 2,5 - 2,7 - 3,0 - 3,1 - 3,5 - 4,0 - 4,5 - 5,0 - 5,5 - 6,0 (mm)

Images merely illustrative
RAZEK MICRO SAW BLADES

They are used in small bone surgeries in conjunction with Micro Power Saw.

Models SS

Models LSP

Technical Specifications
- Sterilization: gamma ray
- Sterilization expires in: 3 years

Images merely illustrative
RAZEK FULL PRÓ

Razek Full Pro is intended to perforate, insert pins and rods, cut bones, among others. This equipment, together with its accessories, allows the use of drills with drill bits (Chuck) or Kirschner/Steinmann wire (Wire Pass).

- Minimum speed: 100 rpm
- Maximum speed: 1.000 rpm
- Cannulated up to 4 mm
- Voltage: 100 - 240 V~

Images merely illustrative

- Accessories: Chuck Pro 10
  Chuck 6A (AO)
  Chuck 10A (AO)
  Chuck 6H (HUDSON)
  Chuck 10H (HUDSON)
  Wire Pass