INSTRUMENTATION FOR MINIMALLY-INVASIVE FOREFOOT SURGERY
A COMPLETE SOLUTION

8 unique burrs have been designed to enable the surgeon to perform a number of osteotomies and resections.

**M1:**
- to reduce the prominence of the medial side of the 1st metatarsal head;
- to perform osteotomy of the base of M1;
- to perform distal osteotomy of M1.

**MTP joint:**
- to perform lateral arthrolysis of the MTP joint.

**P1:**
- all osteotomies as well as varisations, derotations, and shortenings.

**Lesser rays:**
- to perform Distal Metatarsal Mini Invasive Osteotomies (DMMO);
- to address lesser toe and hammer toe deformities.

**BURRS**

Burrs dedicated to each indication (see indications board on the back)

- **Wedge 3.1 x 13 mm** - ref. 268 437
- **Wedge extra 4.1 x 13 mm** - ref. 268 438
- **Straight Shannon 2.0 x 12 mm** - ref. 268 439
- **Short Shannon 2.0 x 8 mm** - ref. 268 440
- **Long Shannon 2.0 x 12 mm** - ref. 268 441
- **Percutaneous chevron 3.0 x 20 mm** - ref. 268 447
- **Percutaneous chevron 2.5 x 14 mm** - ref. 268 448
- **Percutaneous chevron 2.0 x 20 mm** - ref. 268 449

**Single use:**
- Single use;
- Sterile-packed;
- Protection by a silicone ring;
- Simple, color-coded identification;
- Connection possibility: rounded end for Jacob chuck.
**RASPS**

- The rasps were designed to extract small bone debris (and not to rasp the bone) produced when reducing the volume of the 1st metatarsal head by the use of burr;
- They have different orientations (angle: 15°) and are available in 2 widths (1.5 mm and 3 mm);
- Anatomic handle for efficient ergonomy.

![Rasp, 1.5 mm width (ref. 258 158)](image)
![Rasp, 3 mm width (ref. 258 159)](image)

**SEPARATOR**

- To elevate the soft tissues and create a "working" area;
- To work directly in contact with the bone;
- 1 elevator and 1 rasp assembled in one unique instrument.

![Periosteal elevators (ref. 258 160)](image)

**SURGICAL KNIFE**

- To permit minimal invasive approaches;
- It consists of a blade holder 75 mm long perfectly adapted to MIS procedures;
- The Beaver blades used have the advantage of permitting an incision in the line of the surgical knife over a width of between 1 to 3 mm.

![Beaver handle (ref. 254 327) + Beaver blade 3 mm (ref. 266 510)](image)

**RETRACTORS**

- Percutaneous bone lever is designed to displace easily (lateral translation) the 1st shaft osteotomy, by percutaneous approach.

![Percutaneous osteotomy bone lever (ref. 258 163)](image)

- Retractors are used to create a "working area" by exposing the metatarsal head for osteotomy procedure by mini-open approach.

![Bottom retractor (ref. 258 161)](image)
![Top retractor (ref. 258 162)](image)
### Osteotomies

<table>
<thead>
<tr>
<th>Ref.</th>
<th>MIS Burr (Box of 5)</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>268 437</td>
<td>Wedge Burr 3.1x13mm MIS</td>
<td>Metatarsal osteotomy with substantial level of correction (10 to 20°). To flatten and thin thicker bone; to contour in certain cases.</td>
</tr>
<tr>
<td>268 439</td>
<td>Straight Shannon Burr 2.0 x 12 mm MIS</td>
<td>Primary metatarsal osteotomy of M1 or osteotomy of P1, neutral level of correction (&lt; 10°).</td>
</tr>
<tr>
<td>268 440</td>
<td>Short Shannon Burr 2.0 x 08 mm MIS</td>
<td>All surgical bone procedures of the lesser toes (R2 to R3): claws of toes, bunion, clinodactyly, shortening, soft corn.</td>
</tr>
<tr>
<td>268 441</td>
<td>Long Shannon Burr 2.0 x 12 mm MIS</td>
<td>Metatarsal osteotomy of M1 or osteotomy of P1 allowing the maximal correction of angle (10°). DMMO (Distal Metatarsal Mini Invasive Osteotomy) - Contouring of metatarsal heads (R2 to R5).</td>
</tr>
<tr>
<td>268 447</td>
<td>Percutaneous Chevron Burr 3.0 x 20 mm MIS II</td>
<td>Percutaneous chevron type osteotomy, with shortening effect.</td>
</tr>
<tr>
<td>268 448</td>
<td>Percutaneous Chevron Burr 2.5 x 14 mm MIS II</td>
<td>Percutaneous chevron type osteotomy.</td>
</tr>
<tr>
<td>268 449</td>
<td>Percutaneous Chevron Burr 2.0 x 20 mm MIS II</td>
<td>Percutaneous chevron type osteotomy, without shortening effect.</td>
</tr>
</tbody>
</table>

### Bone Resection

<table>
<thead>
<tr>
<th>Ref.</th>
<th>MIS Burr Extra 4.1 x 13 mm MIS</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>268 438</td>
<td>To shave and reduce (the medial part of the M1 head) as primary procedure; cheilectomy of Hallux Rigidus.</td>
<td></td>
</tr>
</tbody>
</table>

### Incision

<table>
<thead>
<tr>
<th>Ref.</th>
<th>MIS Burr</th>
<th>Indications</th>
</tr>
</thead>
<tbody>
<tr>
<td>268 450</td>
<td>Beaver Blades (Rounded) 1 mm be POD (Box x 24)</td>
<td>Small incision of 1mm for lateral rays.</td>
</tr>
<tr>
<td>268 451</td>
<td>Beaver Blades (Rounded) 3 mm be POD (Box x 25)</td>
<td>Incision / Arthrolysis / Tenotomy.</td>
</tr>
<tr>
<td>268 452</td>
<td>Beaver Blades (Pointed) 3 mm be POD (Box x 25)</td>
<td>Incision / Arthrolysis / Tenotomy.</td>
</tr>
</tbody>
</table>