



FOOT

# FOREFOOT SURGERY

GROUP  
**FH ORTHO**™

INSTRUMENTATION FOR  
MINIMALLY-INVASIVE  
FOREFOOT SURGERY



# INSTRUMENTATION FOR MINIMALLY INVASIVE FOREFOOT SURGERY

Single  
use

## 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 1<sup>st</sup> 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.

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

## 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



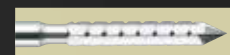
Short Shannon 2,0 x 8 mm - ref. 268 440



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

## RASPS

- The rasps were designed to **extract small bone debris** (and not to rasp the bone) produced when reducing the volume of the 1<sup>st</sup> 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)



Rasp, 3 mm width (ref. 258 159)

## 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)



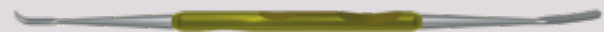
1<sup>st</sup> mini-incision using  
Beaver surgical knife



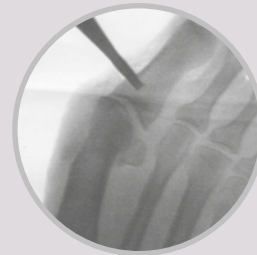
Lateral release using the  
Beaver surgical knife

## 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)



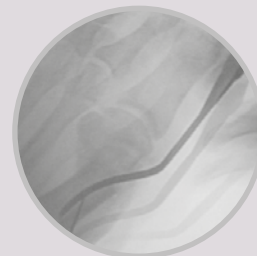
Use of fluoroscopy to monitor the position of rasp

## RETRACTORS

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



Percutaneous osteotomy bone lever (ref. 258 163)



- **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)




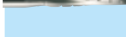

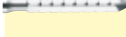
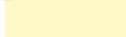


Top retractor (ref. 258 162)


## SINGLE USE INSTRUMENT

REF.	MIS BURR (BOX OF 5)	INDICATIONS
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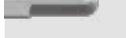
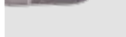
### OSTEOTOMIES

	268 437	WEDGE BURR 3.1x13mm MIS	Metatarsal osteotomy with substantial level of correction (10 to 20°). To flatten and thin tiner bone ; to contour in certain cases.
	268 439	STRAIGHT SHANNON BURR 2.0 x 12 mm MIS	Primary metatarsal osteotomy of M1 or osteotomy of P1, neutral level of correction (< 10°).
	268 440	SHORT SHANNON BURR 2.0 x 08 mm MIS	All surgical bone procededures of the lesser toes (R2 to R3) : claws of toes, butt, clinodactyly, shortening, soft corn.
	268 441	LONG SHANNON BURR 2.0 x 12 mm MIS	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)
	268 447	PERCUTANEOUS CHEVRON BURR 3.0 x 20 mm MIS II	Percutaneous chevron type osteotomy, with shortening effect.
	268 448	PERCUTANEOUS CHEVRON BURR 2.5 x 14 mm MIS II	Percutaneous chevron type osteotomy.
	268 449	PERCUTANEOUS CHEVRON BURR 2,0 x 20 mm MIS II	Percutaneous chevron type osteotomy, without shortening effect.

### BONE RESECTION

	268 438	WEDGE BURR EXTRA 4.1 x 13 mm MIS	To shave and reduce (the medial part of the M1 head) as primary procededure ; cheilectomy of Hallux Rigidus.
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### INCISION

	268 450	BEAVER BLADES (ROUNDED) 1 mm be POD (BOX x 24)	Small incision of 1mm for lateral rays.
	268 451	BEAVER BLADES (ROUNDED) 3 mm be POD (BOX x 25)	Incision / Arthrolysis / Tenotomy.
	268 452	BEAVER BLADES (POINTED) 3 mm be POD (BOX x 25)	Incision / Arthrolysis / Tenotomy.

## INSTRUMENT SET

REF.	DESIGNATION
258 158	RASP THICK. 1.5 MM MIS II be POD
258 159	RASP THICK. 3 MM MIS II be POD
258 160	ELEVATOR - RASPARTORY MIS II be POD
258 161	BOTTOM RETRACTOR MIS II be POD
258 162	TOP RETRACTOR MIS II be POD
258 163	PERCUTANEOUS OSTEOTOMY BONE LEVER MIS II be POD
254 327	BEAVER HEX. HANDLE 7.5 CM D. 0.5 CM MIS II be POD
258 164	BOX FOR MIS FOOT INSTRUMENTS MIS II be POD