



45B Screw

Surgical technique

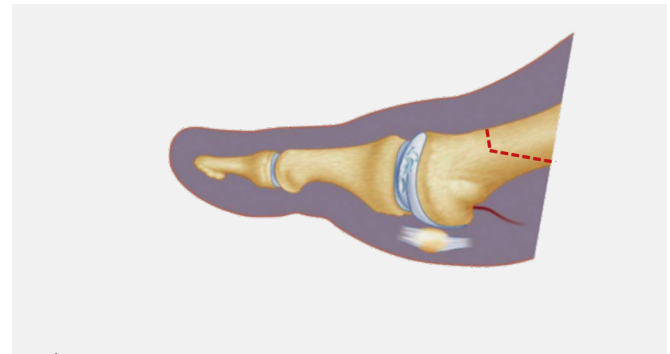
Surgical technique

INDICATIONS

- Treatment of Hallux Valgus

PATIENT PREPARATION AND SET UP

- Dorsal decubitus, foot outside the surgical field in order to allow space for an image intensifier.
- Tourniquet non-systematic
- Extremity field

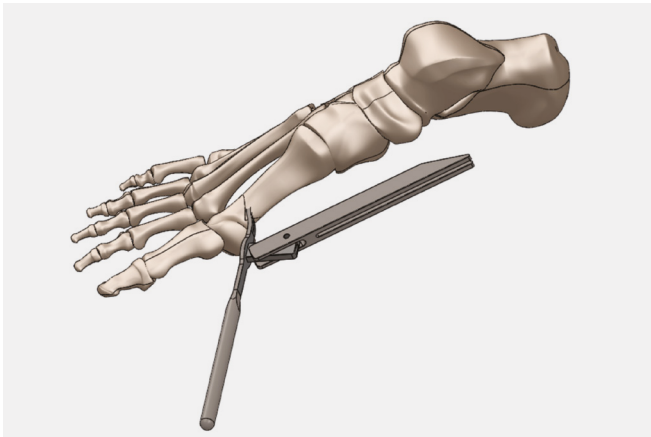


1st step:

- Incise skin using Beaver in view of entry point of burr
- Insert the burr and carry out the percutaneous chevron type metaphyseal metatarsal osteotomy under control of the image intensifier.

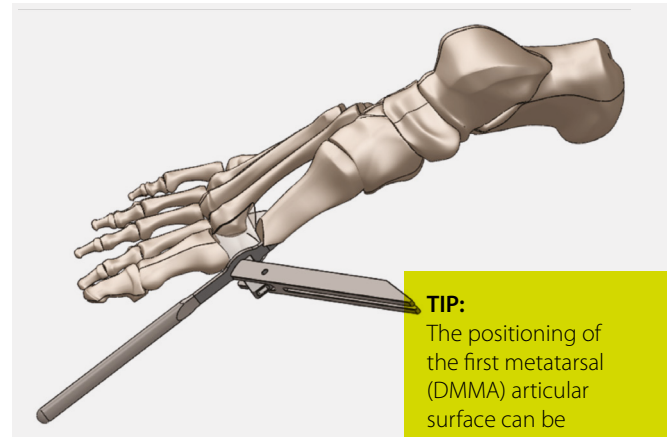
TIP:

Type of chevron lines, side view; the positioning and the length of the lines vary according to planning.



2nd step:

Insert the translator (*ref. 267 810*) into the metatarsal medullary cavity, the aiming-guide is rotated to facilitate the insertion manoeuvre of the translator.



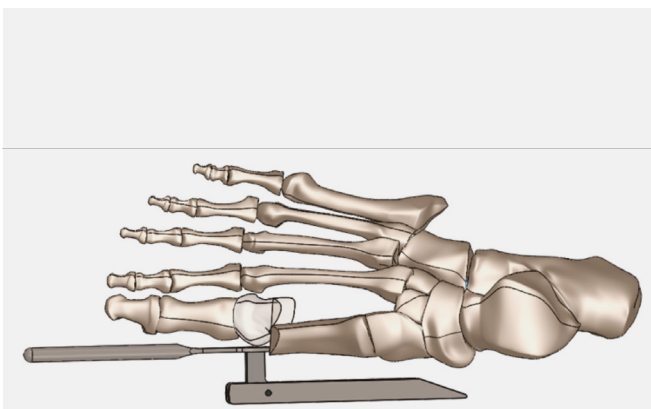
3rd step :

Perform the lateral translation of the distal part of the osteotomy using a leverage effect.

TIP:

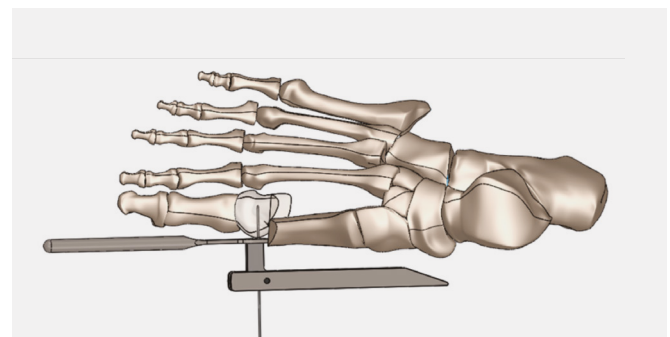
The positioning of the first metatarsal (DMMA) articular surface can be modified by ligamentotaxis if necessary by transforming hallux into varus.

2



4th step :

Set up the aiming-guide parallel to the axis of M1.

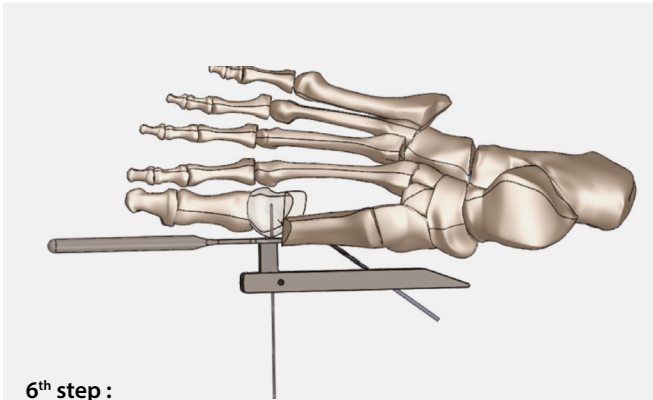


5th step :

Insert a temporary 15/10th mm pin (*ref. 269 057*) after skin incision using Beaver into the metatarsal head though the dedicated hole to stabilise the whole assembly and avoid ascent of the metatarsal head.

TIP:

This pin can be pushed to the second metatarsal to ensure better stability of the assembly.

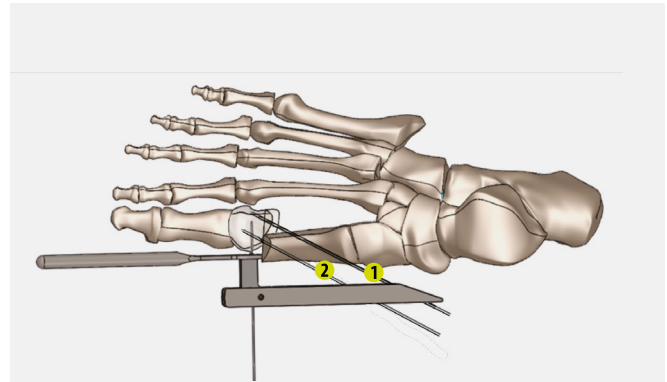


6th step :

Incise in view of entry point of the drill bit, insert the cannulated drill bit (ref. 267 809) in the split proximal part of the aiming-guide orientated towards the metatarsal head. Drill the first cortical.

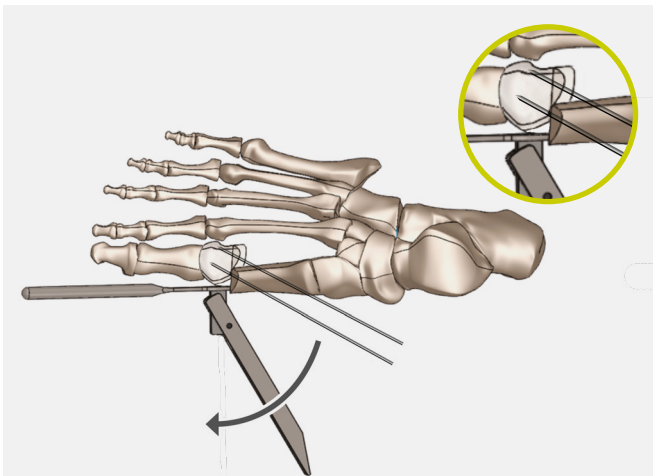
TIP:

The drill can be pushed until the 2nd cortical.



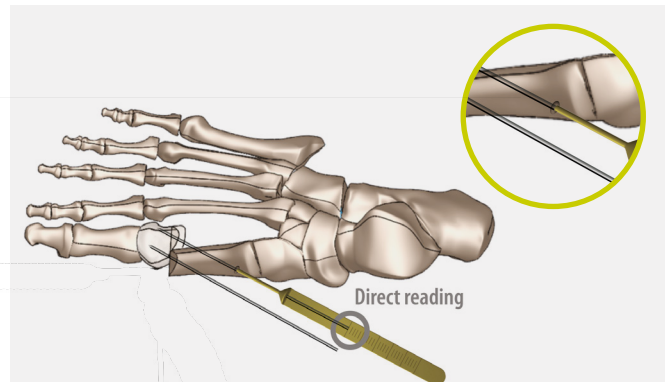
7th step :

- Insert the 10/10th diameter proximal guide pin into the cannulated drill bit (ref. 254 920), it is power inserted into the metatarsal head. **1**
- Set up the 2nd cannulated drill bit and drill the first cortical. Set up the 2nd 10/10th diameter distal pin (ref. 254 920). **2**



8th step :

Withdraw the temporary pin (ref. 269 057) from the head of M1 then withdraw the aiming-guide and the translator.

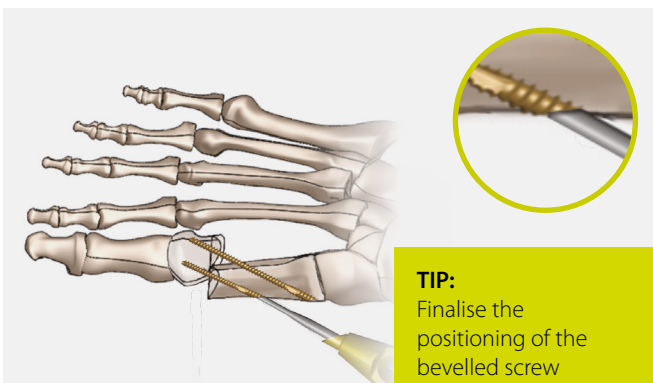


9th step :

Withdraw the drill bit then read directly the length of the screw on the gauge (ref. 267 811) to insert the proximal screw.

TIP:

The marker on the screwdriver enables the orientation of the bevel of the screw head.



10th step :

Position the distal screw.

11th step :

Withdraw the pin.

TIP:

Finalise the positioning of the bevelled screw with the manual screwdriver in order to optimise bone anchoring without risk of causing subcutaneous discomfort.

12th step :

Resect the medial angle of the proximal fragment of the osteotomy using the burr.

TIP:

If the fragment is bulky, an osteotomy can be performed and it can be withdrawn or placed below the centre of the osteotomy.

REMARK:

In some cases an exostosectomy of the metatarsal head, a percutaneous lateral arthrolysis and/or an Akin type phalangeal osteotomy is performed to complete the correction.

Monitor using the image intensifier and dress.

Postoperative follow-up:

- Partial load: 15 days
- Dressing changed at day 15

IMPLANTS REFERENCES



Ref.	Designation
267823	Bevelled cannulated 45B screw LG32mm BEPOD
267824	Bevelled cannulated 45B screw LG34mm BEPOD
267825	Bevelled cannulated 45B screw LG36mm BEPOD
267826	Bevelled cannulated 45B screw LG38mm BEPOD
267827	Bevelled cannulated 45B screw LG40mm BEPOD
267828	Bevelled cannulated 45B screw LG42mm BEPOD
267829	Bevelled cannulated 45B screw LG44mm BEPOD
267830	Bevelled cannulated 45B screw LG46mm BEPOD
267831	Bevelled cannulated 45B screw LG48mm BEPOD
267832	Bevelled cannulated 45B screw LG50mm BEPOD

INSTRUMENTATION



267 807 - Powered screwdriver screw 45B BEPOD



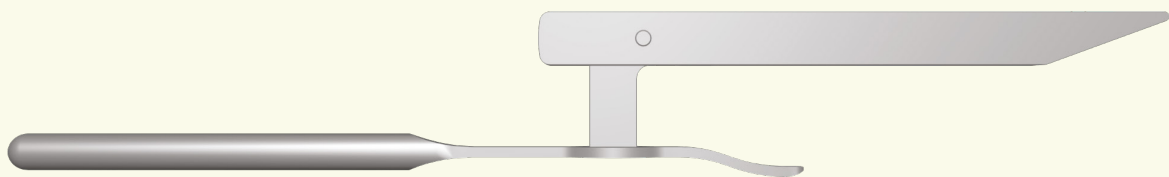
267 808 - Manual screwdriver screw 45B BEPOD



267 809 - Drill bit screw 45B BEPOD



267 812 - Drill bit pin guide screw 45B BEPOD



267 810 - Translator aiming-guide screw 45B BEPOD



267 811 - Screw gauge 45B BEPOD



254 920 - Pin for cannulated screw Ø1mm LG 130mm BEPOD



269 057 - Trans-metatarsal pin Ø1.5mm LG 100mm BEPOD