



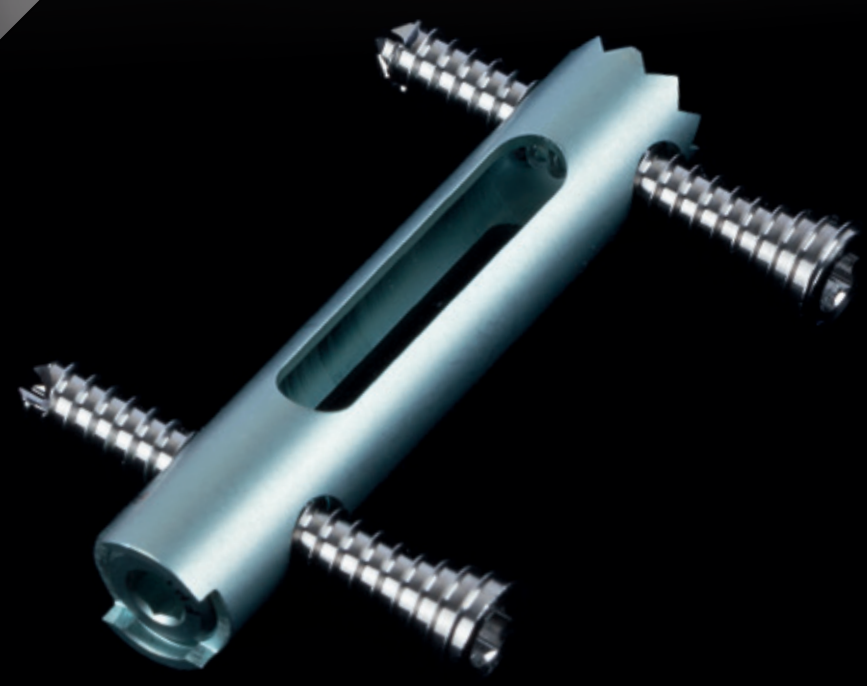
FOOT

HINDFOOT SURGERY

SURGICAL TECHNIQUE

15 STEPS

CALCANail
CALCANEAL FRACTURES

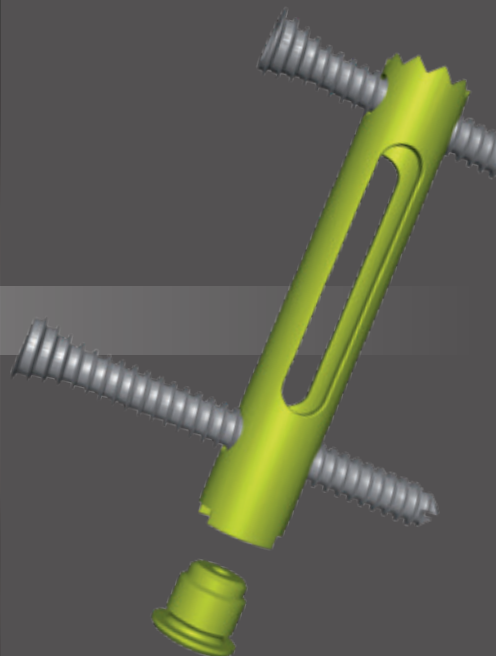


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GROUP
FH ORTHO[™]

THE FRACTURE TECHNIQUE

- Minimally invasive approach at the posterior calcaneal tuberosity avoids complications associated with standard lateral approach;
- Locking nail holds posterior talar articular surface in the proper position after intrafocal reduction;
- Option to convert easily from internal fixation procedure to subtalar fusion.



The Calcanail fracture step by step

1

Patient positioning

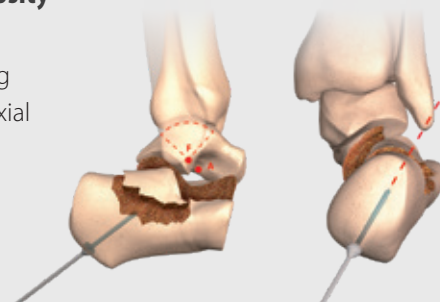
Side-lying or prone



2

Placement of K-wire in posterior tuberosity

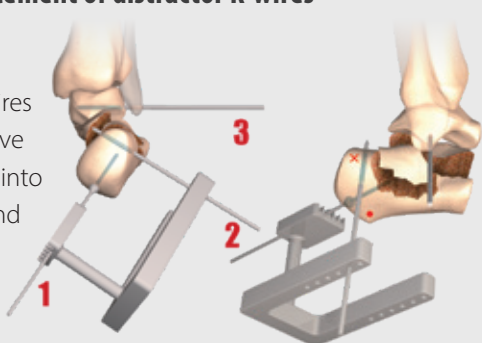
Controlled centring using lateral and axial amplifier



3

Placement of distractor K-wires

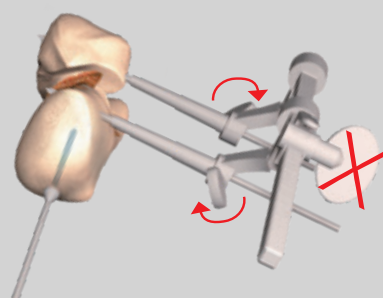
Introduce 2 K-wires with a motor drive perpendicularly into the calcaneus and the talus



4

Fixation of the distractor

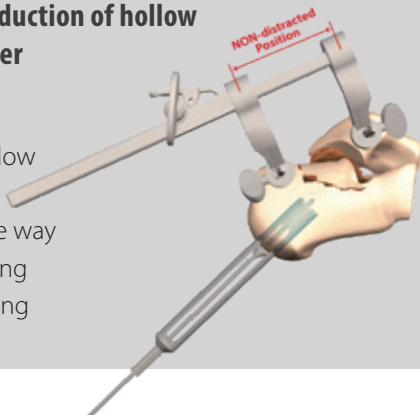
Make parallel the K-wires, insert and lock in the distractor placed on the lateral facet



5

Introduction of hollow reamer

Introduce the hollow reamer with a motor drive all the way to the fracture using fluoroscopy tracking



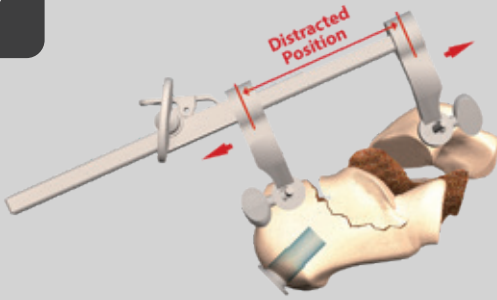
6

Extraction of the hollow reamer

Bone plug removal



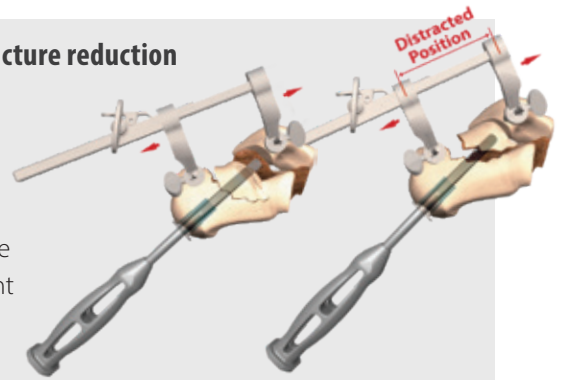
7

Distraction

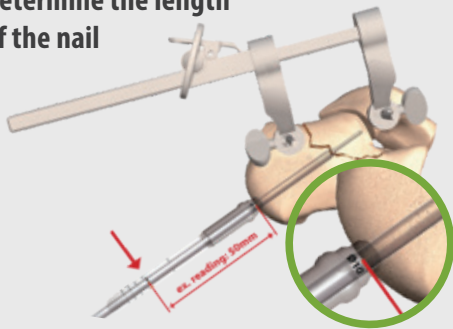
8

Fracture reduction

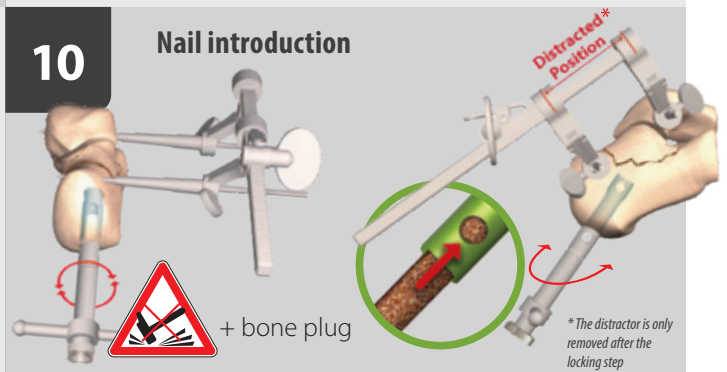
If the fracture is of the mixed type, reduce the medial fragment first



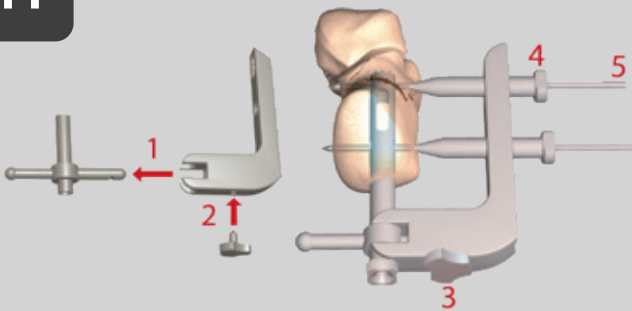
9

Determine the length of the nail

10

Nail introduction

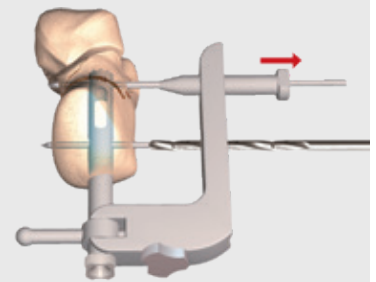
11

Placement of the alignment frame

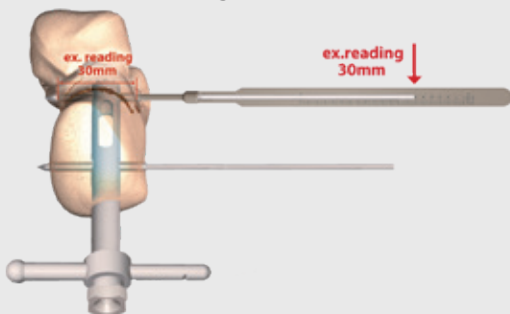
12

Preparation for the locking step

Remove the drill guide and drill on K-wire with a cannulated drill



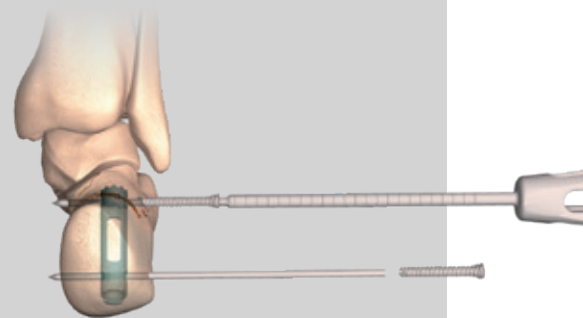
13

Measure the length of the screws

14

Locking step

Introduce the 2 screws using the guide wires



15

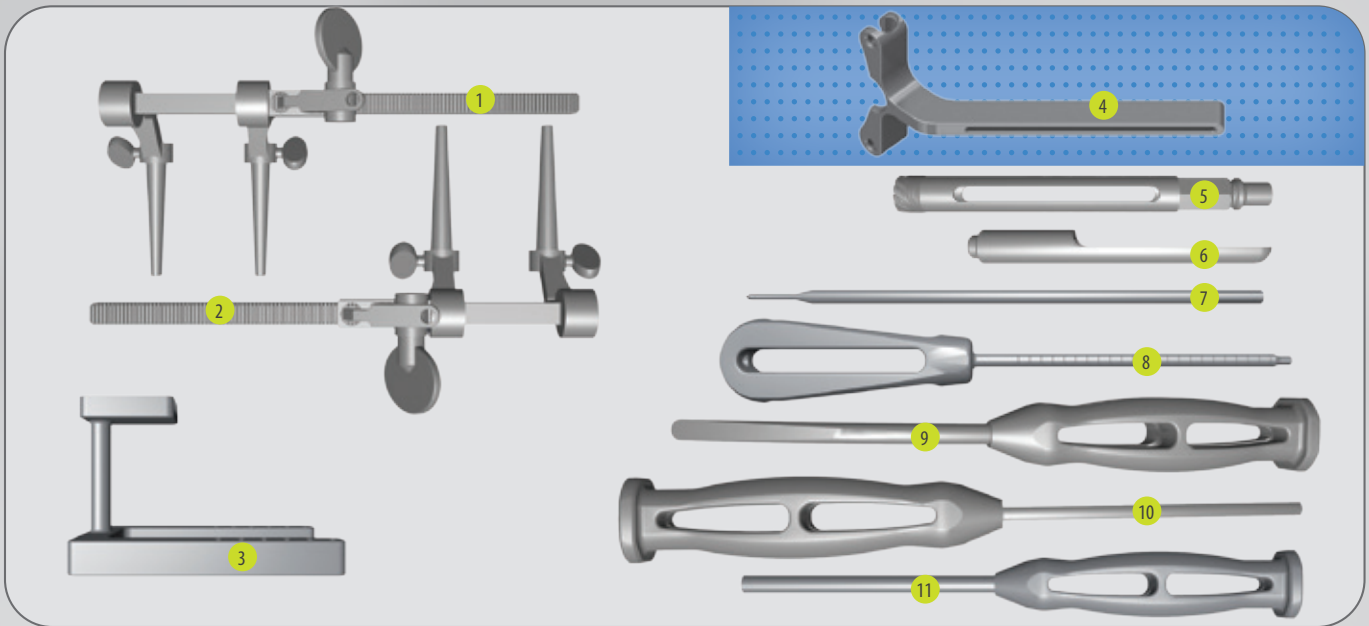
Placement of the cap

With the screwdriver, introduce the cap, then remove the K-wires, nail holder, distractor, and close the various incisions

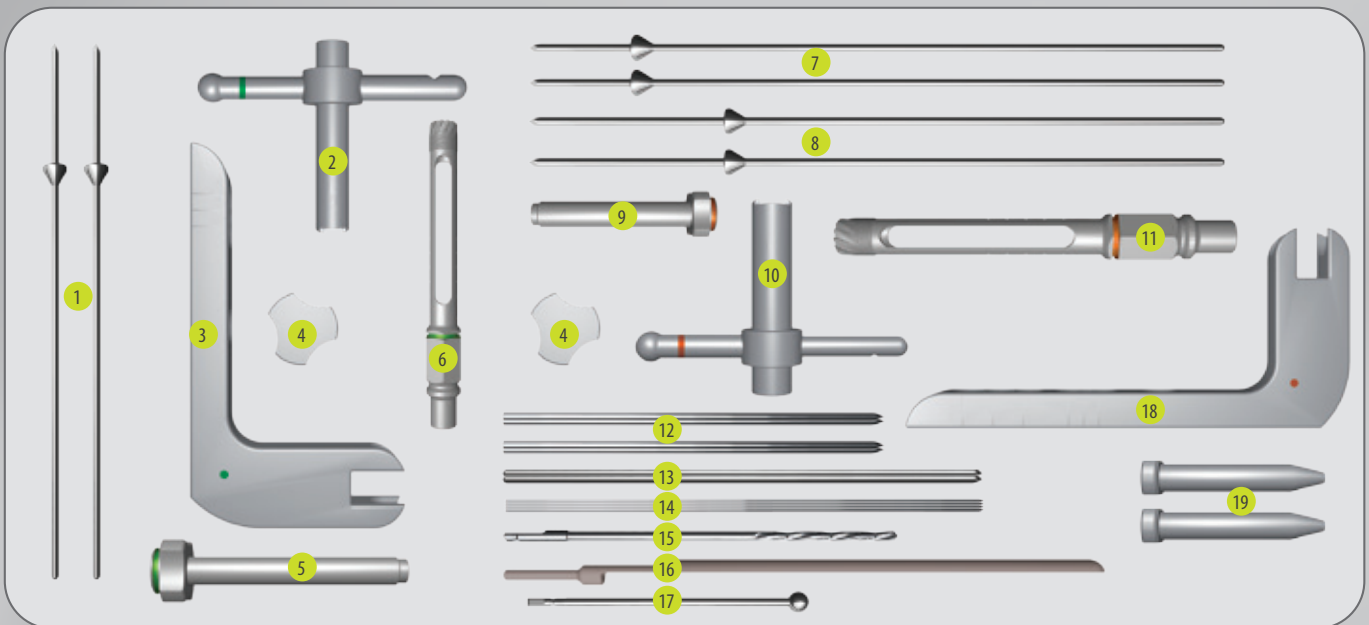
**Implants references**

REF.	FRACTURE NAIL Ø10	REF.	SCREW	REF.	HIGH LENGTH SCREW
265 546	Ø10 L.45 + cap	267 264	Ø5 L.24	265 558	Ø5 L.45
265 547	Ø10 L.50 + cap	267 265	Ø5 L.26	265 559	Ø5 L.50
265 548	Ø10 L.55 + cap	267 266	Ø5 L.28	265 560	Ø5 L.55
		265 552	Ø5 L.30	265 561	Ø5 L.60
		265 553	Ø5 L.32	265 562	Ø5 L.65
		265 554	Ø5 L.34	265 563	Ø5 L.70
		265 555	Ø5 L.36	265 564	Ø5 L.75
		265 556	Ø5 L.38	265 565	Ø5 L.80
		265 557	Ø5 L.40		

V3 INSTRUMENTATION



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|--------------------------------------|--------------|--|--------------|----------------------------------|--------------|
| 1. Distractor..... | ref. 265 599 | 5. Hollow reamer for fusion nail removal Ø14 L140..... | ref. 268 770 | 9. Spatula..... | ref. 265 586 |
| 2. Compressor..... | ref. 266 353 | 6. Nail length gauge..... | ref. 268 772 | 10. Calcaneal curved tamp..... | ref. 265 575 |
| 3. Calcaneal Positioning square..... | ref. 266 147 | 7. Calcaneal nail guide..... | ref. 266 291 | 11. Calcaneal straight tamp..... | ref. 265 576 |
| 4. Screwing guide with window..... | ref. 268 771 | 8. Ø18 Cannulated 3.5 screwdriver..... | ref. 254 599 | | |



- | | | | | | |
|---|--------------|---|--------------|---|--------------|
| 1. Calcaneal Ø10 K-wire with stopper..... | ref. 265 570 | 8. K-wire with stopper Ø3,2 Calcaneal Ø12 (x2)..... | ref. 257 259 | 15. Drill bit Ø3.7 for cannulated screw..... | ref. 265 587 |
| 2. Calcaneal nail holder Ø10..... | ref. 265 579 | 9. Calcaneal Handle-Nail connector Ø12..... | ref. 268 769 | 16. Cannulated screw length gauge L 150/200 mm..... | ref. 266 146 |
| 3. Alignment frame for fracture nail Ø10..... | ref. 265 577 | 10. Calcaneal nail holder Ø12..... | ref. 265 580 | 17. Ball End Burr Ø7.9 L110..... | ref. 267 441 |
| 4. Alignment frame-nail holder connecting screw (x2)..... | ref. 265 581 | 11. Calcaneal hollow reamer Ø12 L140..... | ref. 267 056 | 18. Frame for fusion nail Ø12..... | ref. 265 578 |
| 5. Calcaneal Handle-Nail connector Ø10..... | ref. 268 768 | 12. K-wire for distractor Ø3.2 L 150 mm (x4)..... | ref. 265 668 | 19. Drill guide for K-wire Ø1.6 L 200mm (x2)..... | ref. 266 148 |
| 6. Calcaneal hollow reamer Ø10 L105..... | ref. 267 055 | 13. K-wire Ø3.2 L 200 mm (x2)..... | ref. 267 527 | | |
| 7. Short K-wire with stopper Ø3,2 Calcaneal Ø12..... | ref. 267 777 | 14. K-wire for cannulated screws Ø1.6 L 200 mm..... | ref. 266 158 | | |

OPTION FOR VERY DENSE BONE:

- | | |
|--|--------------|
| 1. Guide K-wire Ø2.4 Lg 250 (x2)..... | ref. 264 586 |
| 2. Cannulated drill bit Ø12 Ø2.4 Lg 180..... | ref. 271 315 |



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