

# MEMODYN COMPRESSION STAPLE FIXATION

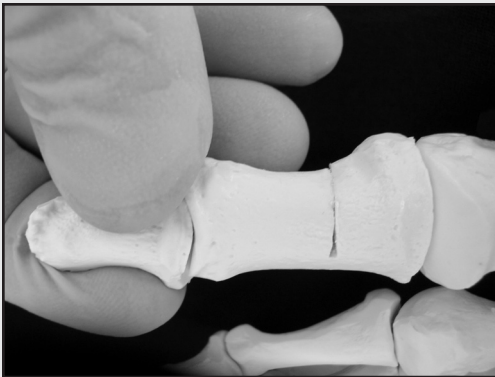
*Heat activated shape memory compression for internal fixation*

## Surgery Technique #1 for Memodyn representative education

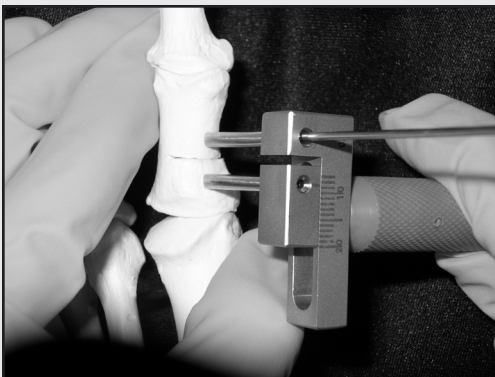
### ***Akin Osteotomy of the Proximal Phalanx on the Great Toe***



1. Gain exposure of the Proximal Phalanx, perform a transverse osteotomy from dorsal to medial. In line with the articular surface of the 1st metatarsal with a slight angle proximally on its medial aspect. A second cut with the saw blade, creates a dorsal wedge allowing a “hinging motion” to close the osteotomy to gain correction.



2. Once temporary fixation (closing the wedge) is obtained of the osteotomy, using either manual closure, bone holding forceps, or k-wire, the surgeon should use the GDP 20-35-1.5 Green Memodyn Drill Guide to predrill the holes for placement of the Memodyn Compression Staple.

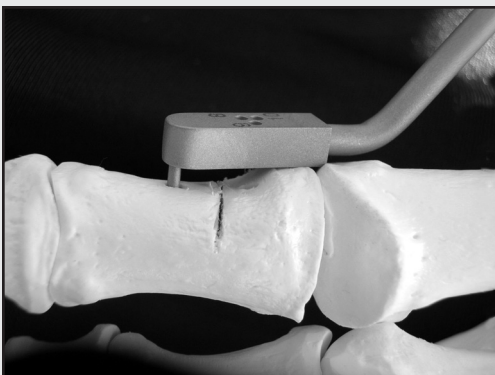


3. The Green Memodyn Drill Guide should be adjusted to the width of the Memodyn Compression Staple desired, either 8mm wide for a CSU 8-8 or 9mm wide for a CSU 9-9. This is completed by turning the green handle counterclockwise to loosen, enabling you to slide the guide to lock into place. Tighten down by turning the handle clockwise. Drill both holes parallel without moving the Guide.

NOTE: some surgeons prefer to adjust the Drill Guide to 1mm wide than the Memodyn Compression Staple selected. This provides some tension upon insertion because the drill holes are 1mm wider than the width of the Staple.

4. Using a 1.5mm drill bit, predrill holes to a depth of at least 9mm deep, without moving the Drill Guide.

NOTE: if using the special AKIN DRILL GUIDE, this allows you to “freehand” drill the distal hole with a 1.5mm drill bit. Then you insert the PIN on the Akin Drill Guide into the drilled hole. This allows you to use the drill guide as a lever, and close the osteotomy into position before drilling your second hole through the assigned number widths on top of the drill guide.



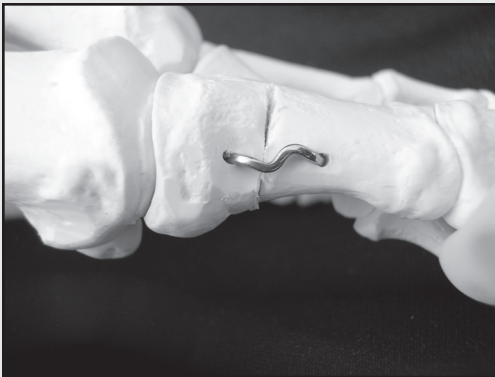
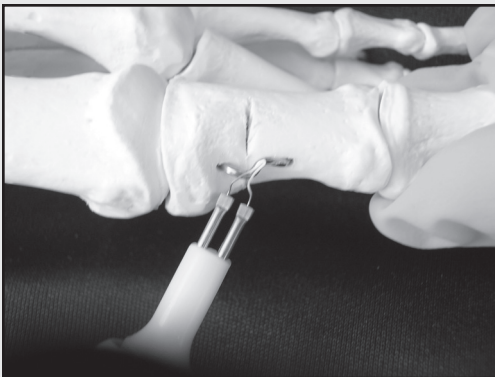
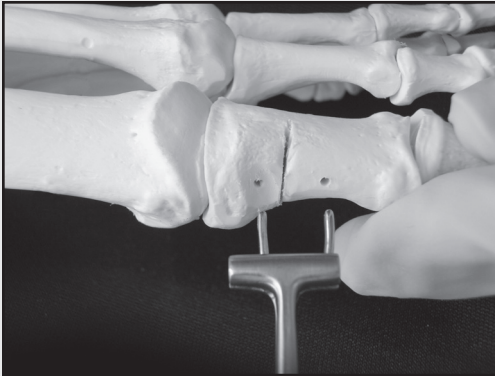
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**Questions? Contact: Austin/B.R.I. (410) 903-9038  
[www.telosmedical.com](http://www.telosmedical.com)**

# Surgery Technique #1

for Memodyn representative education

## ***Akin Osteotomy of the Proximal Phalanx on the Great Toe (continued)***



5. Remove the Drill Guide and implant either a CSU 8-8 (8mm wide x 8mm long) CSU 9-9 (9mm wide x 9mm long), **so that it sits flush to the bone surface** across the osteotomy site.
6. Once the Memodyn Compression Staple, CSU 8-8 or CSU 9-9, is implanted flush to the bone surface, apply the bovie and/or handheld hightemp cautery as recommended:
  - ▶ **Using Handheld Hightemp** Cautery — touch the middle of the Memodyn staple for 5 seconds and at each corner for 2-3 seconds for additional heat application.
  - ▶ **Using the BOVIE:** Set on 40 Watts CUT, monopolar — activate bovie right before you touch the Memodyn staple. This will create an arc or blue spark between bovie tip and Memodyn staple. Achieve this arc for 2-3 seconds on each corner of the Memodyn Staple.
7. Remove temporary fixation of the osteotomy site. A second Memodyn Compression Staple may be implanted due to Surgeon preference or room at the osteotomy site for implantation.
8. Close surgical site following recommended surgical protocol.