

Tornier IM Nail

Humeral Fracture System



**Operative technique
addendum**

Perfect circles technique

Perfect circles technique

In the event that the targeting jig cannot be used for targeting of the screw holes in the nail, the perfect circles technique may be used. In this technique, fluoroscopy will be used to identify the hole in the nail and proper alignment of the drill bit in order to properly target the holes.

Alignment of the c-arm

To begin, the c-arm is to be rotated until the targeted hole in the nail appears as a perfect circle (Figure 1). This indicates that the axis of the c-arm is co-axial to the targeted hole.

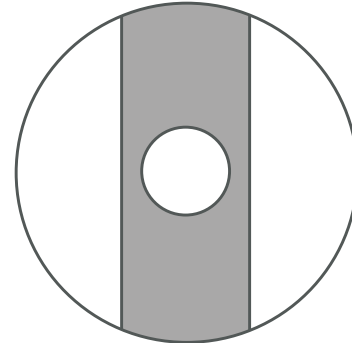


Figure 1

Locating the drill starting point

Once the c-arm is co-axial to the targeted nail hole, the tip of the drill bit can be used to identify the starting entry point. To begin, place the tip of the drill on the bone in the approximated area of the starting point. Using fluoro, adjust the location of the drill tip until it points to the center of the nail hole (Figure 2).

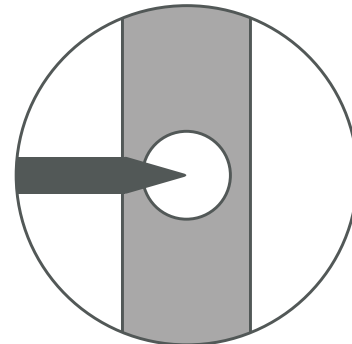


Figure 2

Note:

Ensure the tip of the drill bit is contacting bone to prevent it from moving from the identified starting point.

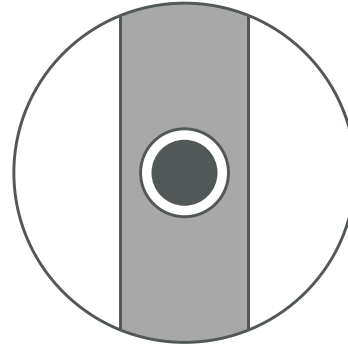
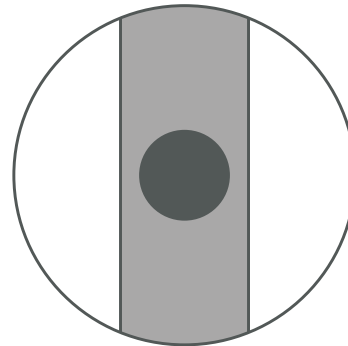
Alignment of drill bit

Once the starting point is established, the drill bit is positioned co-axial to the c-arm. The orientation should be adjusted until the drill bit appears as a perfect circle.

If using a smaller drill bit initially, the circle of the hole will appear inside the hole of the nail (Figure 3). If using the standard drill bit provided in the nail instrumentation, the hole of the nail may not be visible due to the size of the drill connection feature (Figure 4).

Once the drill bit creates a perfect circle, the drill bit is advanced through the hole and a screw is positioned in the normal manner.

Repeat this process until all desired screw locations have been performed.

**Figure 3****Figure 4**

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