

AOS™

ADVANCED ORTHOPAEDIC SOLUTIONS



7.0mm Cannulated
SCREW SYSTEM

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Surgical Technique



Made in the USA

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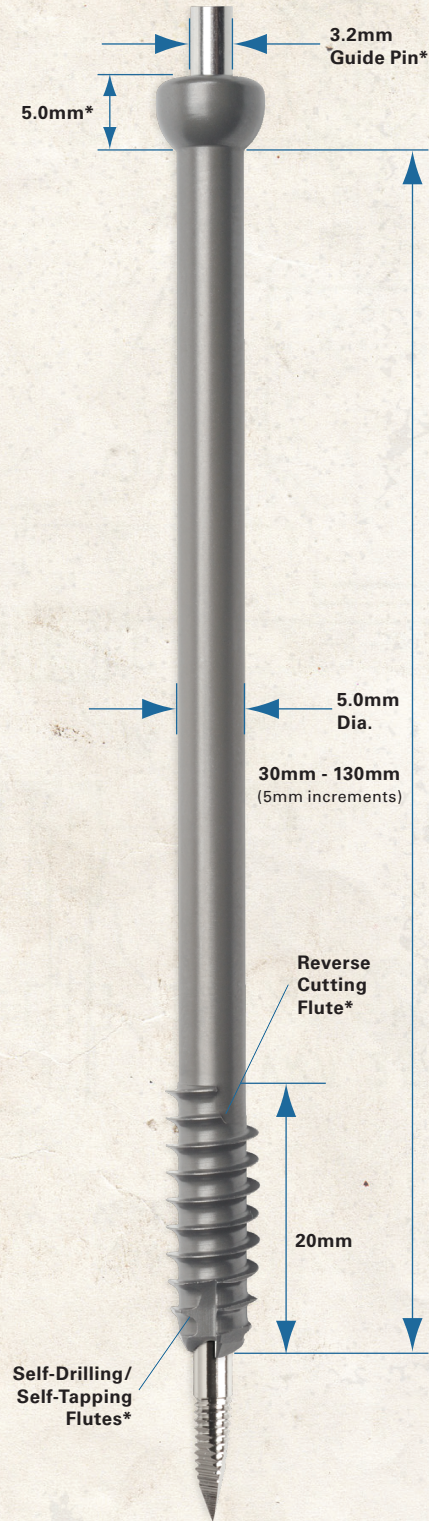
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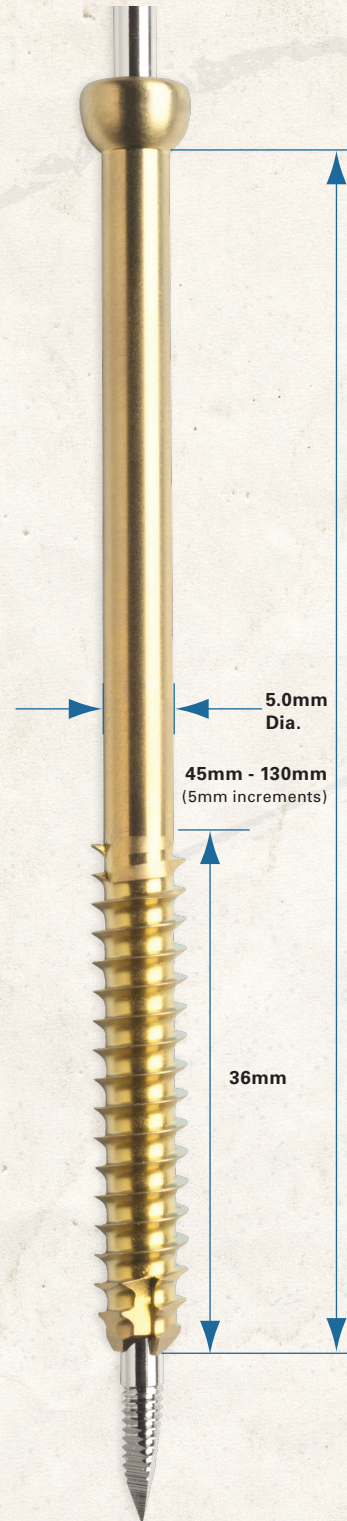
This Surgical Technique sets forth detailed recommended procedures for using AOS devices and instruments. It offers guidance, but as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required. Surgeons must always rely on their own professional clinical judgement when deciding which products and surgical treatments to use with their patients. Refer to package insert for information on indications, warnings, precautions and contraindications.

Screw Features

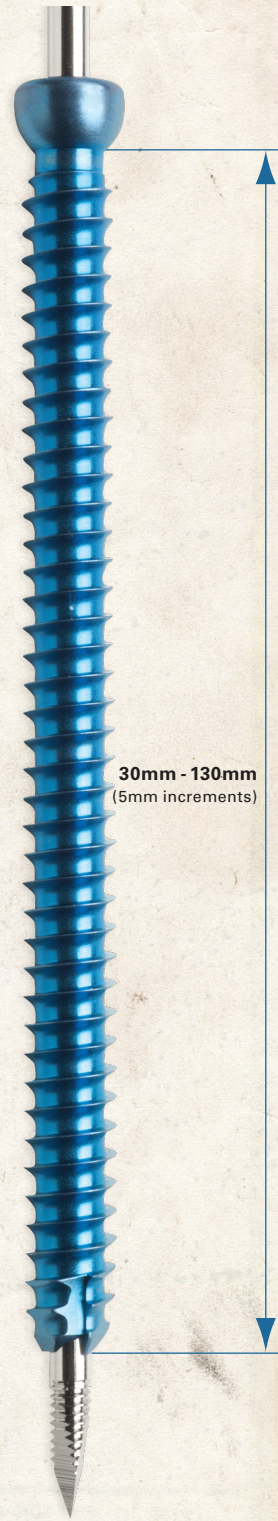
20mm Thread



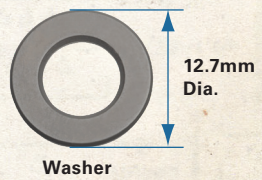
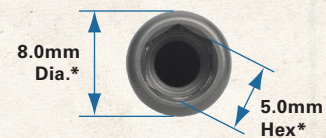
36mm Thread



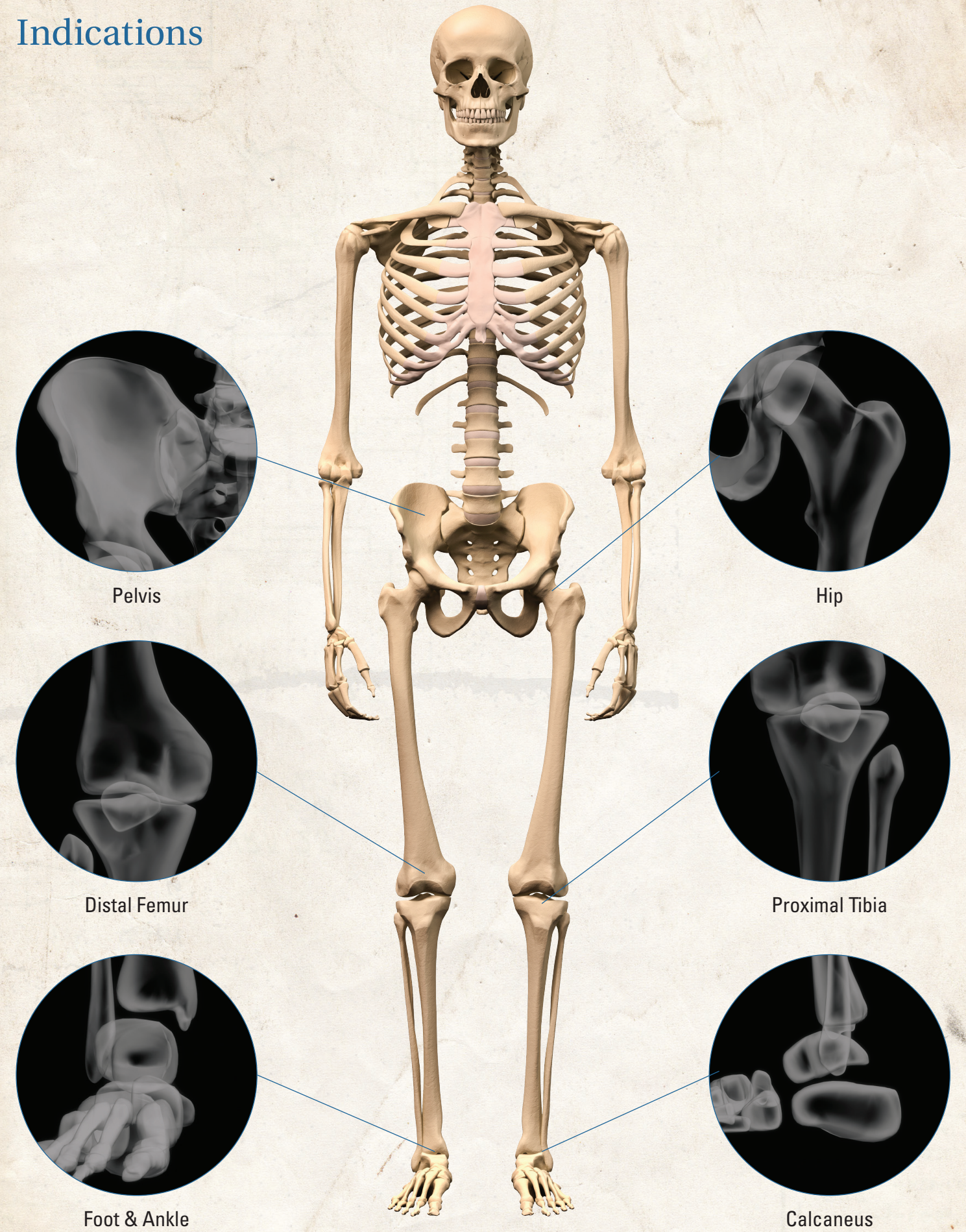
Fully Threaded



* Equal with all sizes



Indications



7.0mm Cannulated Screws

Surgical Technique

Indications

The AOS Cannulated Bone Screw System is intended for fracture fixation of small bones, long bones and the pelvis. This system is not intended for spinal use.

1. Insert Guide Pin

Make a stab incision and insert the Percutaneous Sheath and Trocar Assembly which consists of the **Screw Sheath (0615)**, **3.2mm Pin Guide (0319)**, and **3.2 mm Trocar (0614)** through the soft tissue to the bone (**Fig. 1**). Remove the Trocar and insert a **3.2 mm Guide Pin (0100)** to the appropriate depth (**Fig. 2**). Confirm the pin placement under image intensification. Remove all sleeves.

Technique Tips: To prevent slippage, the Percutaneous Sheath and Trocar may be tapped with a mallet. Run the drill at maximum speed to minimize deflection while gradually advancing the Guide Pin.

2. Insert Additional Parallel Pins (if necessary)

Insert **3.2mm Parallel Pin Guide (0322)** (**Fig. 3**). Place this combination over the previously inserted Guide Pin and push directly to the bone.

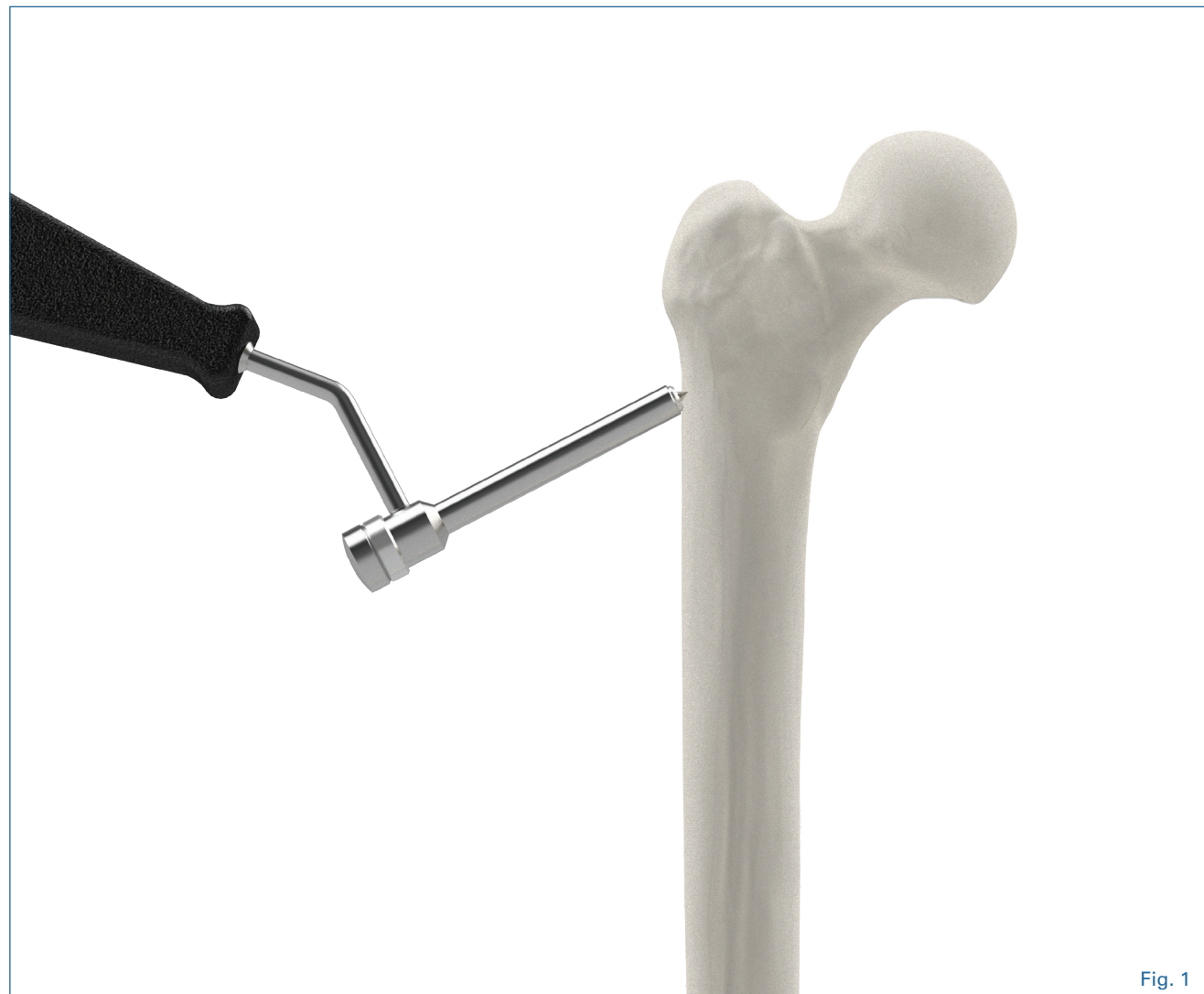


Fig. 1



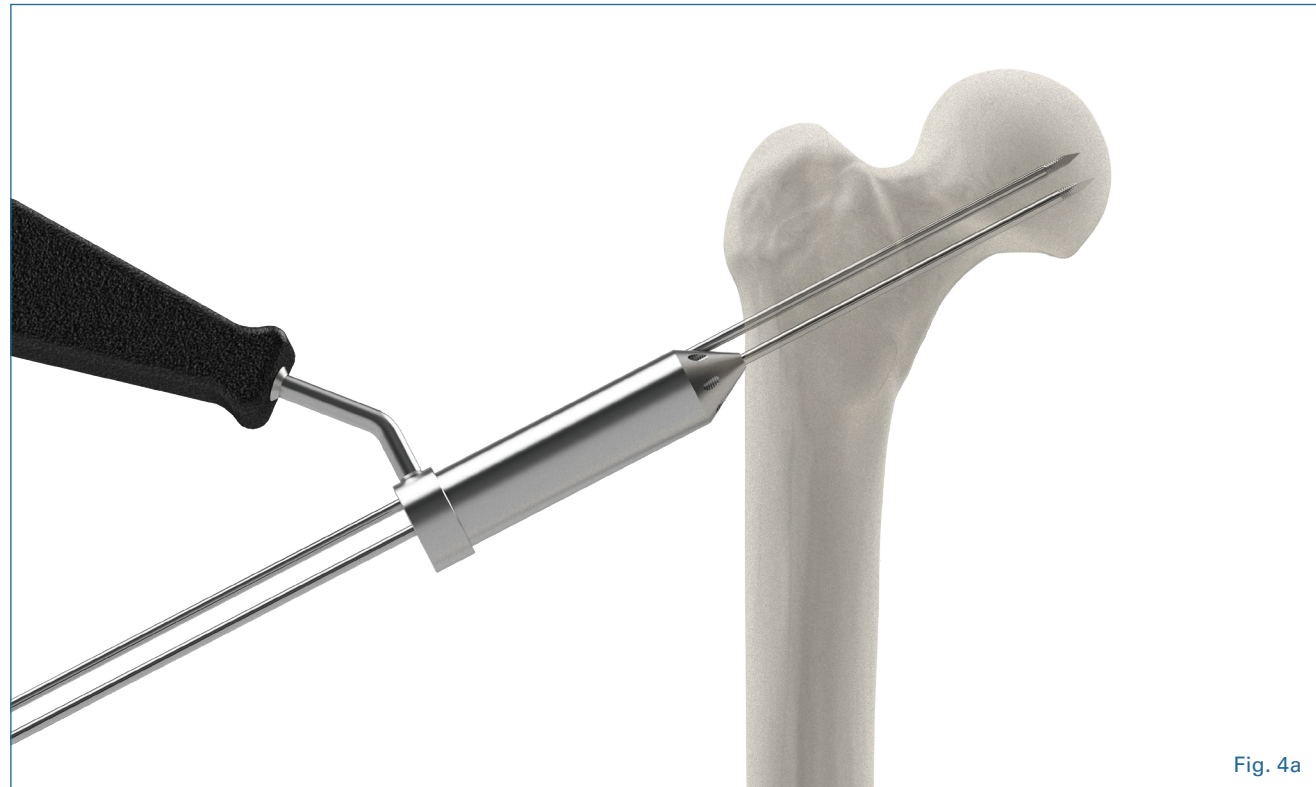
Fig. 2



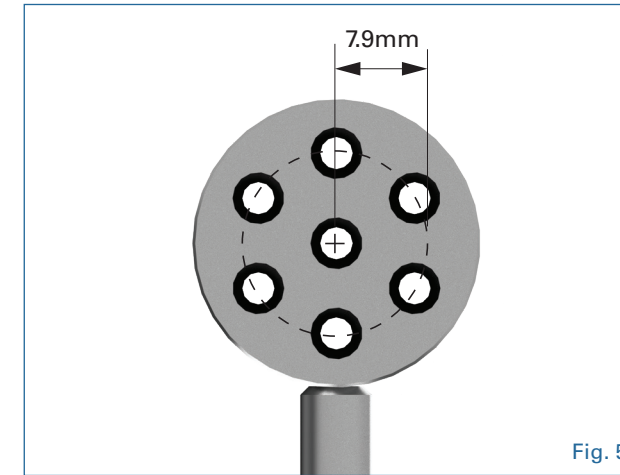
Fig. 3

Insert a second Guide Pin into any of the remaining six holes in the Parallel Pin Guide (**Fig. 4a & 4b**). Insert any additional Guide Pins following the same procedure.

Technique Tips: Avoid placing any bending forces on the first Guide Pin, as this will affect parallel placement of the pins.

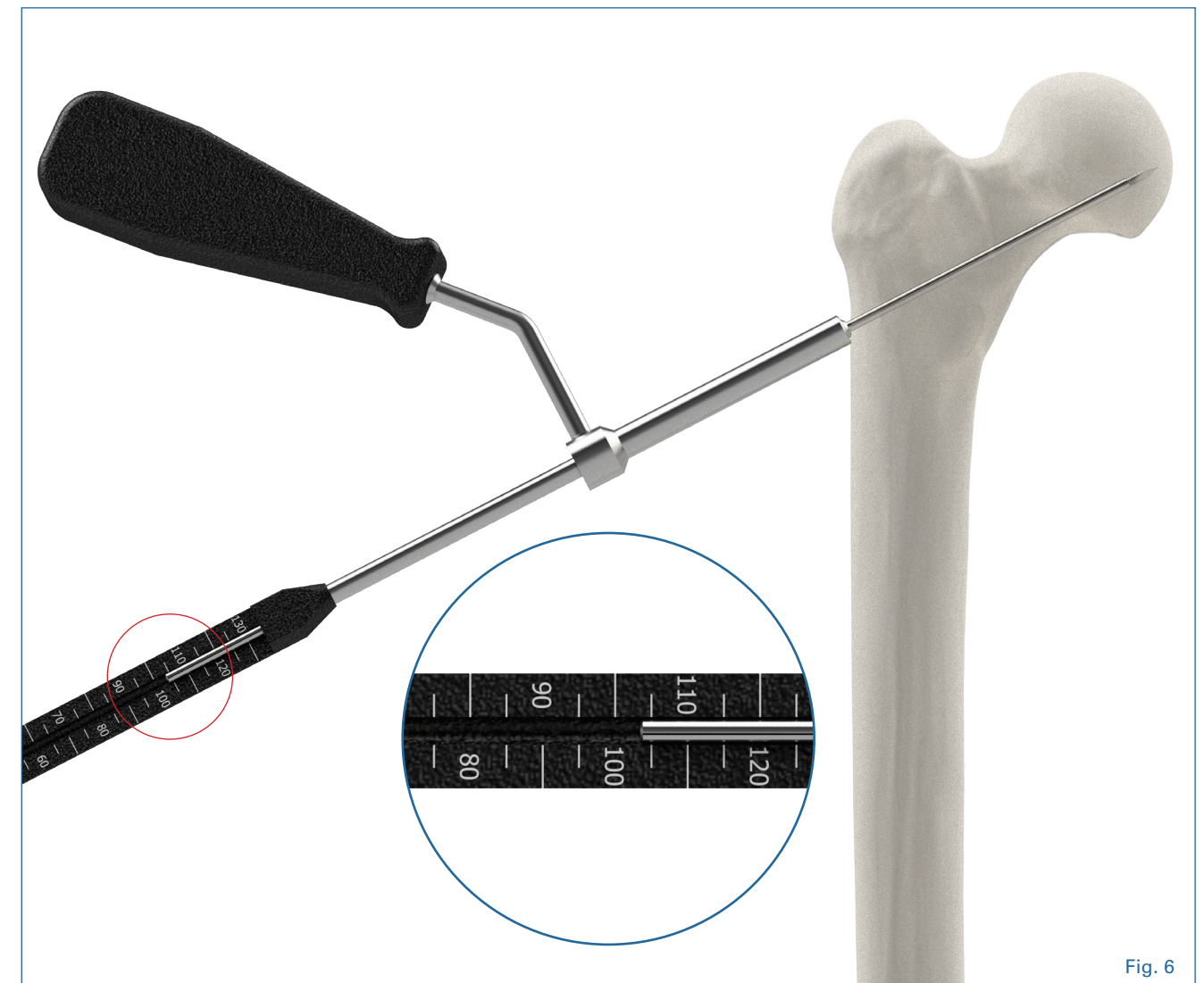


Note: The distances between the center hole to any of the circumferential holes for the Parallel Pin Guide is 7.9mm (**Fig. 5**).



3. Measure for Screw Length

Slide the tapered end of the **Cannulated Screw Depth Gauge (0517)** over the Guide Pin (**Fig. 6**). This reading determines appropriate screw length. Select the 7.0mm Cannulated Screw of this length.



The 7.0mm Cannulated Screws are offered in **20mm Thread (8040)**, **36mm Thread (8041)**, and **Fully Threaded (8042)** options (Fig. 7).

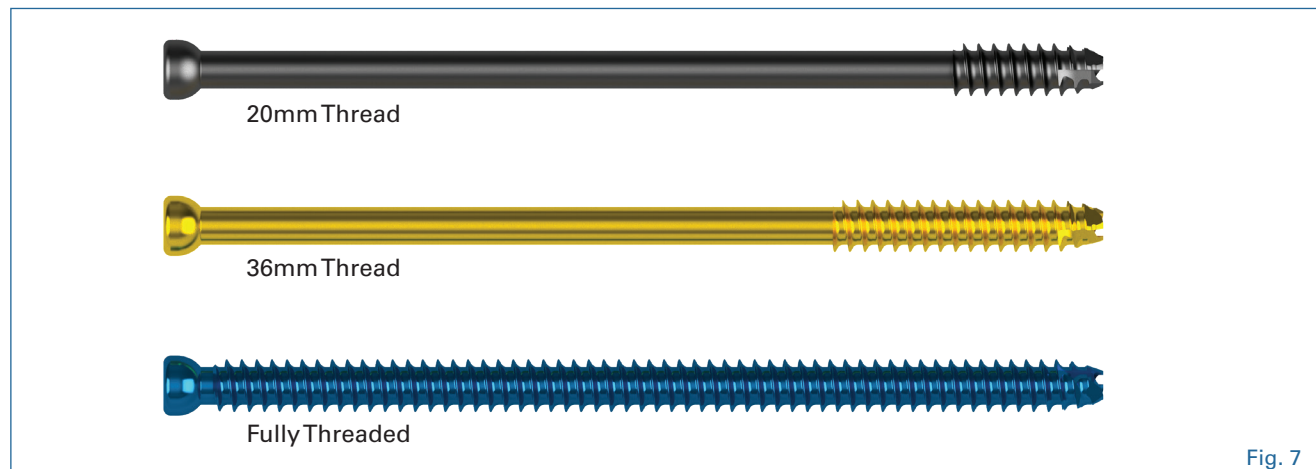


Fig. 7

4. Insert Screws

Use the **5.0mm Cannulated Hex Driver (0429)** to insert the previously selected Cannulated Screw (see step 3) through the Screw Sheath (Fig. 8). Remove and discard the Guide Pin (Fig. 9).

Note: In osteopenic bone, use a **7.0mm Washer (8039)** to prevent the screw head from sinking into bone. Washers cannot be placed through the Screw Sheath. Remove the Sheath before placing the Washer over the Guide Pin.

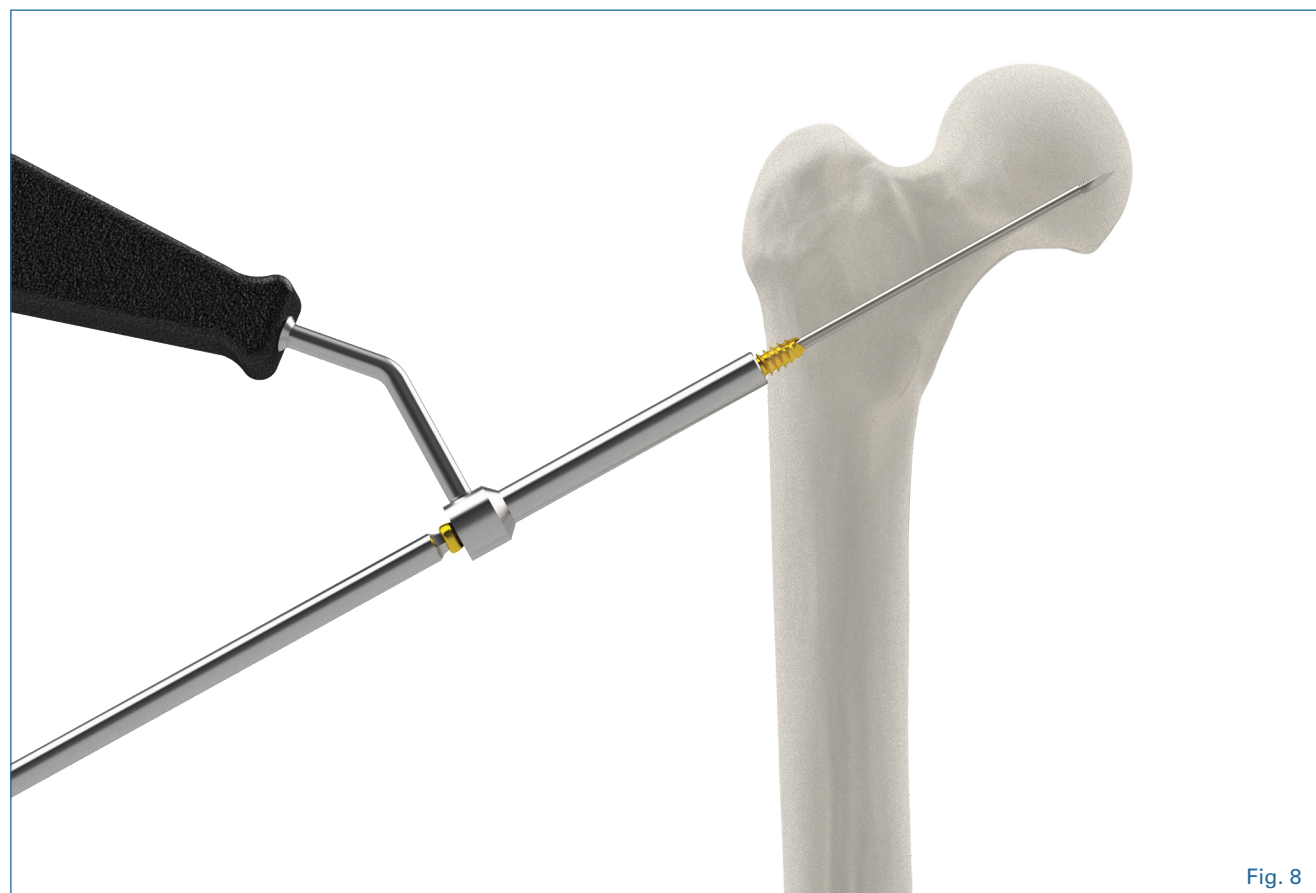


Fig. 8

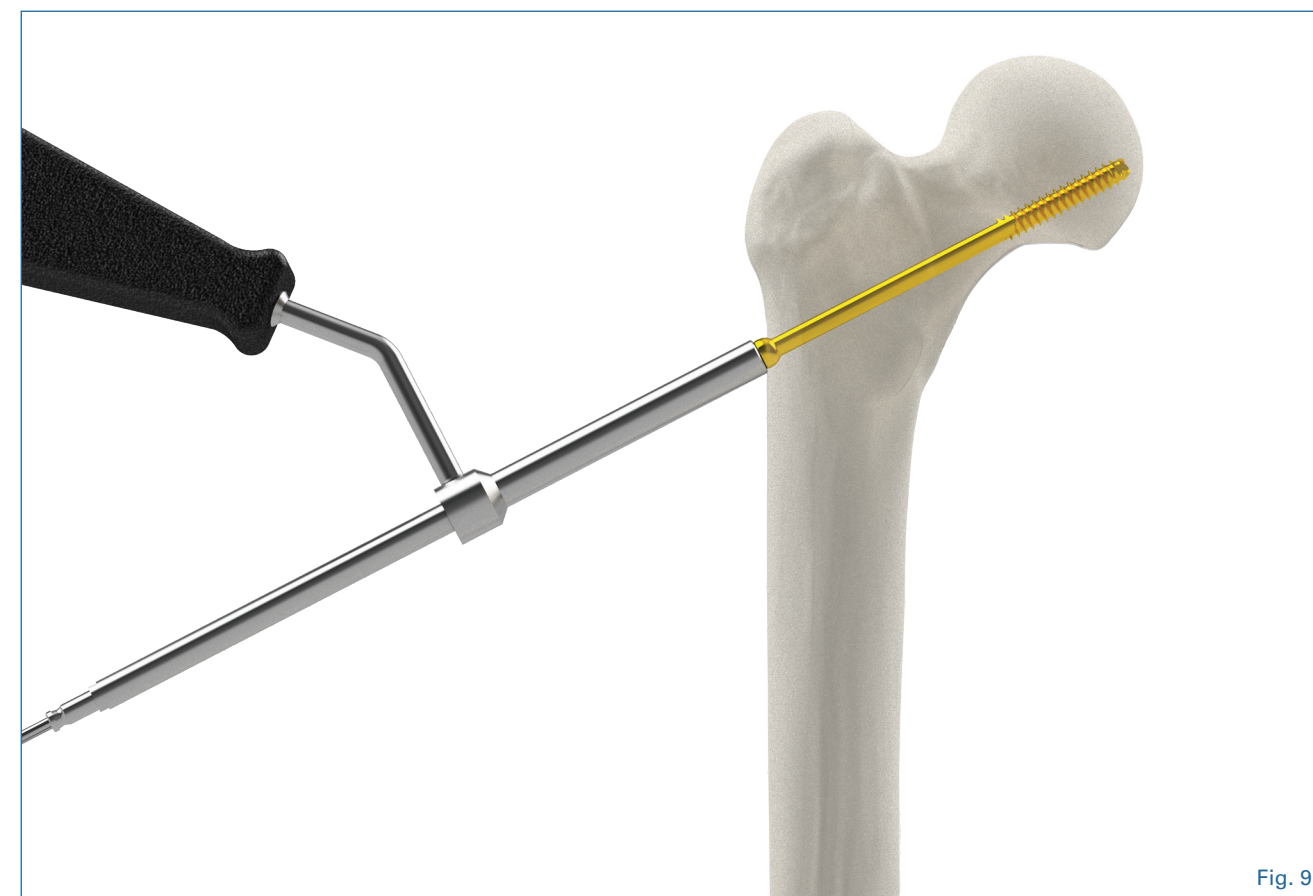


Fig. 9

5. Predrill (Optional)

The self-drilling threads of the screw allow predrilling to be optional. When necessary, drill using the **5.0mm Cannulated Drill (0243)**, **5.0 Drill Guide (0320)**, and **Screw Sheath (0615)** under image intensification to the appropriate depth, being careful not to penetrate the far cortex.

Technique Tips: Avoid directing the drill bit; let it follow the Guide Pin. Take care to remove the drill bit slowly and to pull back straight while running the drill forward to prevent Guide Pin pullout.

Note: The calibrations on the cannulated drill bits are read off the Screw Sheath. Use image intensifications to confirm the drilling and tapping depths.

6. Tap (Optional)

The self-tapping threads of the screw allow tapping to be optional. When necessary, tap the near cortex with the **7.0 Cannulated Tap (0241)** through the Screw Sheath. In dense bone, it may be necessary to tap over the entire non threaded length of the Guide Pin.

7. Screw Extraction

Screw extraction should be performed with the **5.0mm Cannulated Hex Driver**. However, if complications arise during screw extraction, the screw can be removed with the **Easyout Screw Extractor (0815)**. The extractor is tapped lightly into the cannulation of the screw and turned counterclockwise to remove the screw.