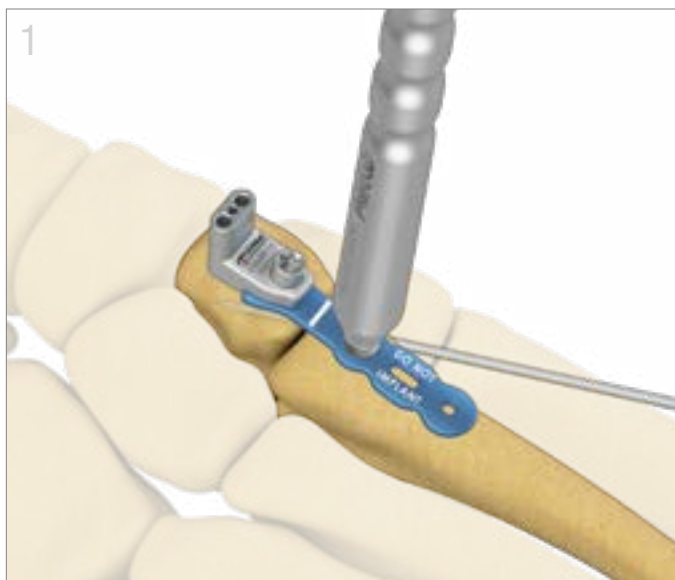




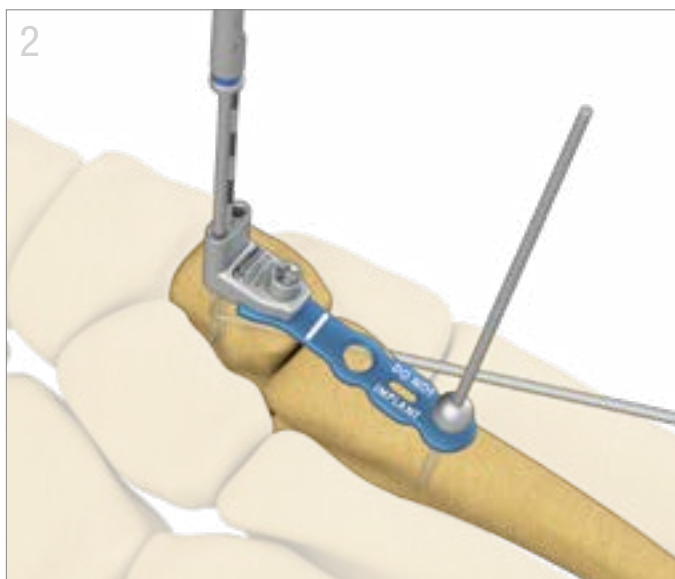
# Universal Hook Plate™

Surgical Technique | *TriMed ASET™ Foot Plating System*



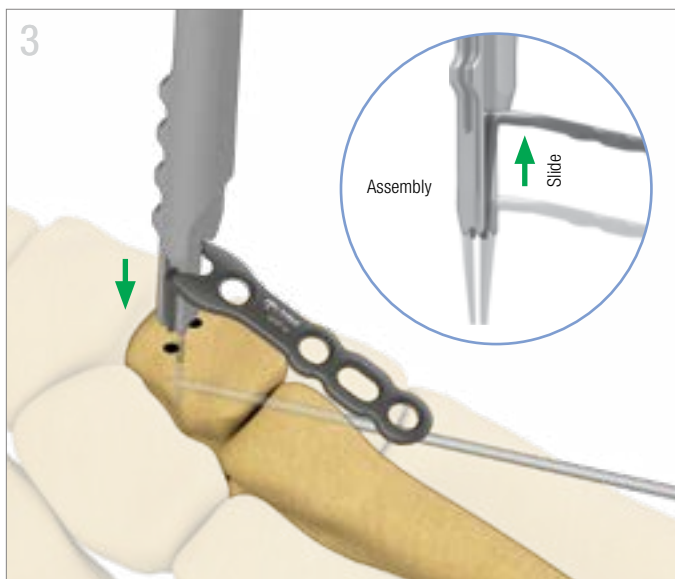
### Joint Preparation and Plate Positioning

- Prepare articular surfaces and secure the joint in an anatomic position using K-wires.
- Assemble appropriate Universal Hook Plate Template with the Universal Hook Plate Drill Guide.
- Utilizing a bending rod, position template on the reduced bones with laser mark over the joint. The template may be contoured to fit anatomy.



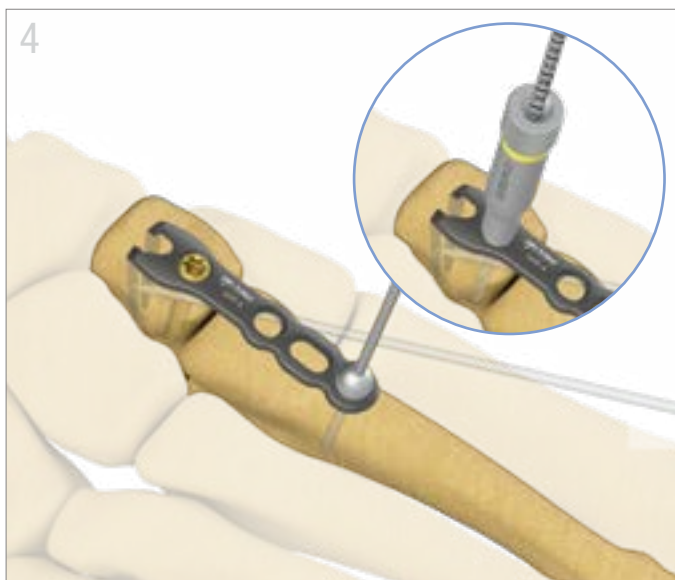
### Preparation for Hooks

- To secure the assembly to bones, insert a 1.1mm K-wire in the middle hole of the drill guide and insert an olive wire or plate tack at the distal end of the template.
- To estimate hook position, verify placement of the 1.1mm K-wire under fluoroscopy.
- Drill the two outer holes at the proximal end of the guide with a 1.8mm drill (blue).
- Remove olive wire or plate tack on the distal end and slide the guide off the 1.1mm K-wire.



### Plate Application on Proximal Bone

- Using plate benders or bending rods, contour plate to match the template.
- Assemble a Universal Hook Plate onto the Hook Plate Inserter. The inserter is cannulated to fit over the 1.1mm K-wire.
- Slide assembly over the 1.1mm K-wire, engage hooks into the prepared holes, and push to place plate onto the bone.
- Remove the Hook Plate Inserter.
- If necessary, impact lightly to seat hooks into holes and plate onto the bone.

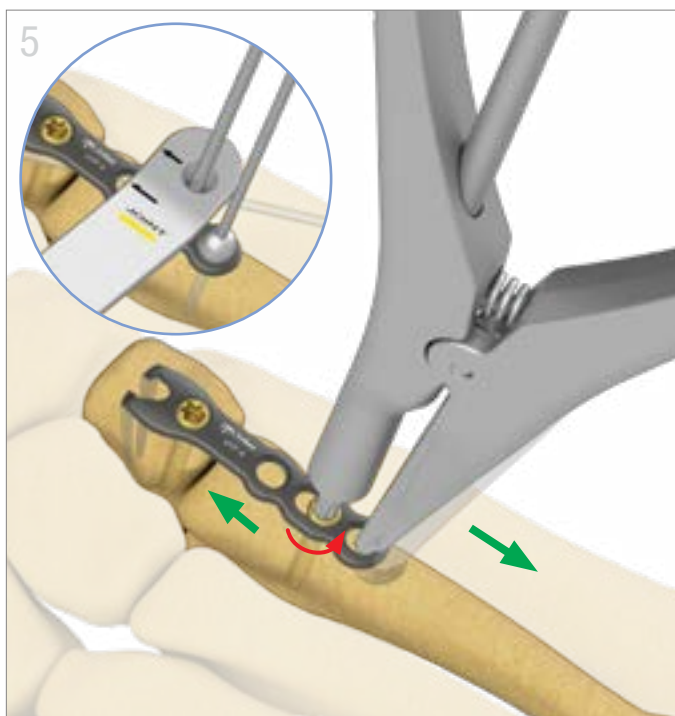


### Proximal Screw Insertion

- Prepare holes for screws in proximal fragment/bone. For locking screws, utilize the standard locking or variable angle locking drill guides. For non-locking cortical screws, use standard drill guide.<sup>1</sup>
- Place and tighten screws in the proximal bone.

<sup>1</sup> **Warning:** Irrigation is recommended during drilling.

**Warning:** A screw placement at an angle exceeding 15° for locking and non-locking screws is NOT recommended.

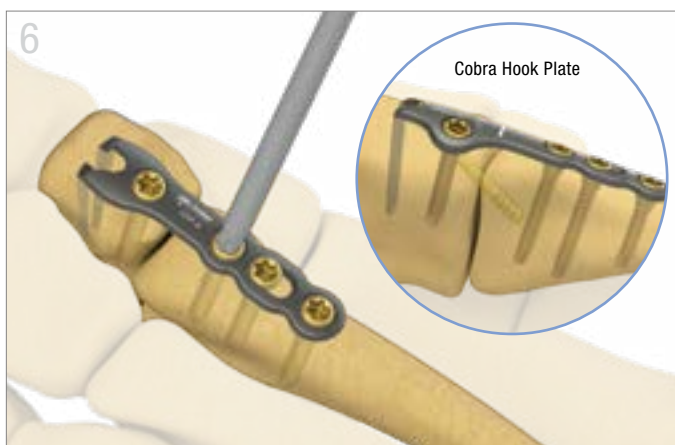


### Surgeon Controlled Compression

- Position oblong drill guide in the slotted hole with arrows pointing toward joint to prepare a hole for a bicortical non-locking screw. Using the guide, drill a hole and measure. Place and tighten a **2.7mm** or **3.5mm** non-locking screw.<sup>2</sup>
- Loosen the non-locking screw by a **1/4** of a turn.
- Engage the driver tip of the Expander/Compression Tool in the socket of the screw in the slotted hole and the hook into the adjacent hole away from the joint.
- Gently squeeze the tool to apply the desired compression with one hand. Control the driver's position in the screw head socket with the other hand to avoid slippage of the driver from the screw head socket.
- Tighten the non-locking screw.

**Note:** Maximum screw travel in the slotted hole is 2.5mm.

<sup>2</sup> **Warning:** Do not use a 4.0mm non-locking screw in a slotted hole.



### Final Fixation













- Place two distal screws for final fixation.
- An additional lag/compression screw (3.0mm TriMed Small Headless Screw) can be placed from dorsal proximal to distal plantar in between the hooks of the Cobra Hook Plate, across the TMT joint, for additional stability.
- Surgical closure should be performed per the surgeon's usual technique.



Indications, contraindications, warnings and precautions related to TriMed ASET Foot Plating System reference IFU, LC-73-9004-001.

All implants made from surgical grade titanium

**Screw Table**

						
	Cortical Screw, 2.7mm	VA Locking Screw, 2.7mm	Cortical Screw, 3.5mm	VA Locking Screw, 3.5mm	Cortical Screw, 4.0mm	VA Locking Screw, 4.0mm
	TRXC2.7-XXT	TRXV2.7-XXT	TRXC3.5-XXT	TRXV3.5-XXT	TRXC4.0-XXT	TRXV4.0-XXT
Length	08-40mm *	08-40mm *	08-50mm * 50-60mm **	08-50mm * 50-60mm **	08-50mm * 50-60mm **	08-50mm * 50-60mm **
Drill	 2.0mm	 2.0mm	 2.3mm	 2.3mm	 2.7mm	 2.7mm
Guide	GUIDEFPS-2.0/2.7	GUIDELFPS-2.0 GUIDEVAL-2.0	GUIDEFPS-2.3/3.5	GUIDELFPS-2.3 GUIDEVAL-2.3	GUIDEFPS-2.7/4.0	GUIDELFPS-2.7 GUIDEVAL-2.7
Driver	T 15	T 15	T 15	T 15	T 15	T 15

\* 2mm increments    \*\* 5mm increments

**Universal Hook Plate**

UHP-4  
UHP-5



**Cobra Plate**

UHP-5W

**Hook Plate Inserter**

INSRTR-HOOK



**Universal Hook Plate  
Drill Guide, 1.8mm**

GDUHP-1.8  
GDUHPW-1.8

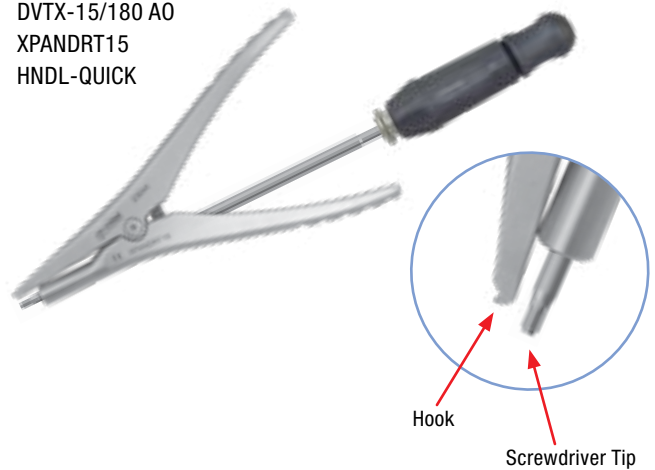


**Malleable  
Template**

UHP-4 T  
UHP-5 T  
UHP-5W T

**Expander/ Compression Tool**

DVTX-15/180 AO  
XPANDRT15  
HNDL-QUICK



TriMed, Inc. / 27533 Avenue Hopkins / Valencia, CA 91355 USA / 800-633-7221 / www.trimedortho.com

The presently issued U.S. patents are: 6,113,603; 7,037,308; 7,044,951; 7,195,633; 7,540,874; 7,942,877; 8,177,822; 8,821,508; 8,906,070; 9,089,376; 9,283,010; 9,220,546; 9,237,911; 9,402,665; 9,636,157; 9,861,402. See [trimedortho.com](http://trimedortho.com) for all listed patents.

The technique presented is one suggested surgical technique. The decision to use a specific implant and the surgical technique must be based on sound medical judgment by the surgeon that takes into consideration factors such as the circumstances and configuration of the injury.

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