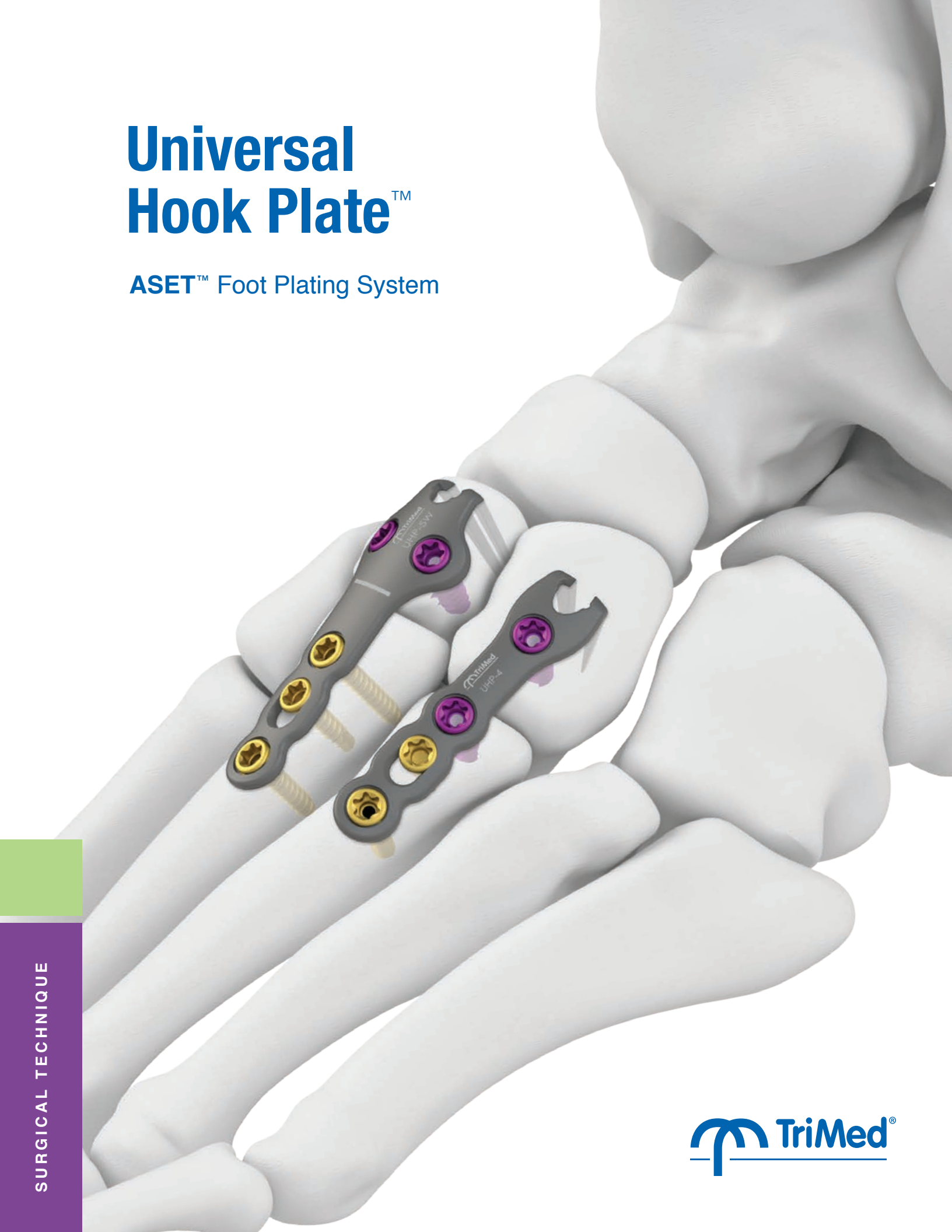
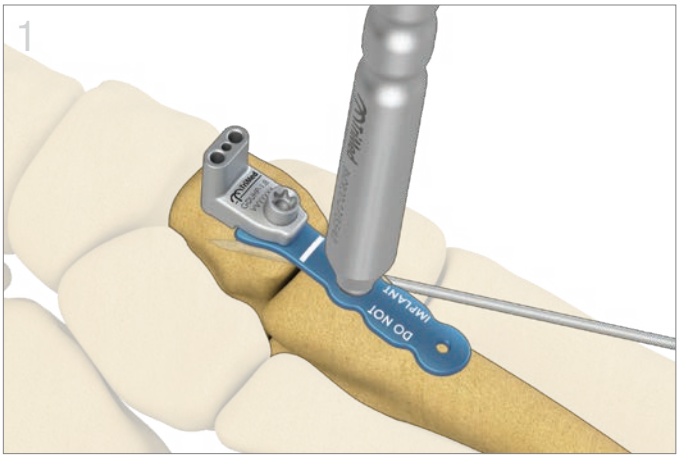
Universal Hook Plate™

ASET™ Foot Plating System



SURGICAL TECHNIQUE

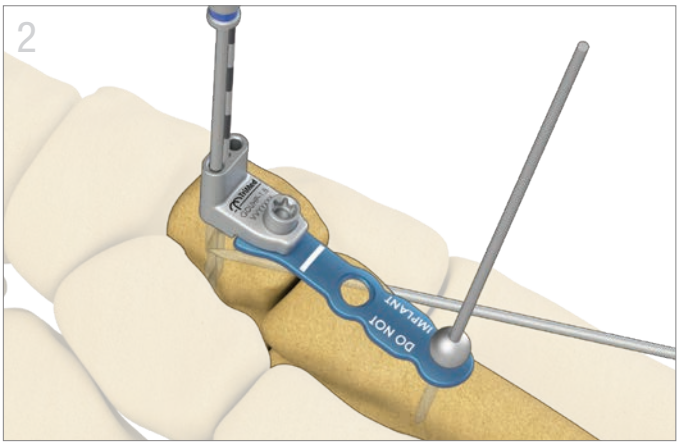
TriMed®



Joint Preparation and Plate Positioning

- Prepare articular surfaces and secure the joint in an anatomical position using K-wires.
- Assemble appropriate Universal Hook Plate Template with the Universal Hook Plate Drill Guide.
- Utilizing a bending rod,[1] position template on the reduced bones with laser mark over the joint. The template may be contoured to fit anatomy.

[1] **Note:** To avoid cross-threading, align the rod normal to the top surface of the locking screw hole before engagement.



Preparation for Hooks

- To secure the assembly to the bones, insert a 1.1mm K-wire in the middle hole of the drill guide and 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 1.8mm drill (blue).
- Remove olive wire or plate tack on the distal end and slide the guide off the 1.1mm K-wire.

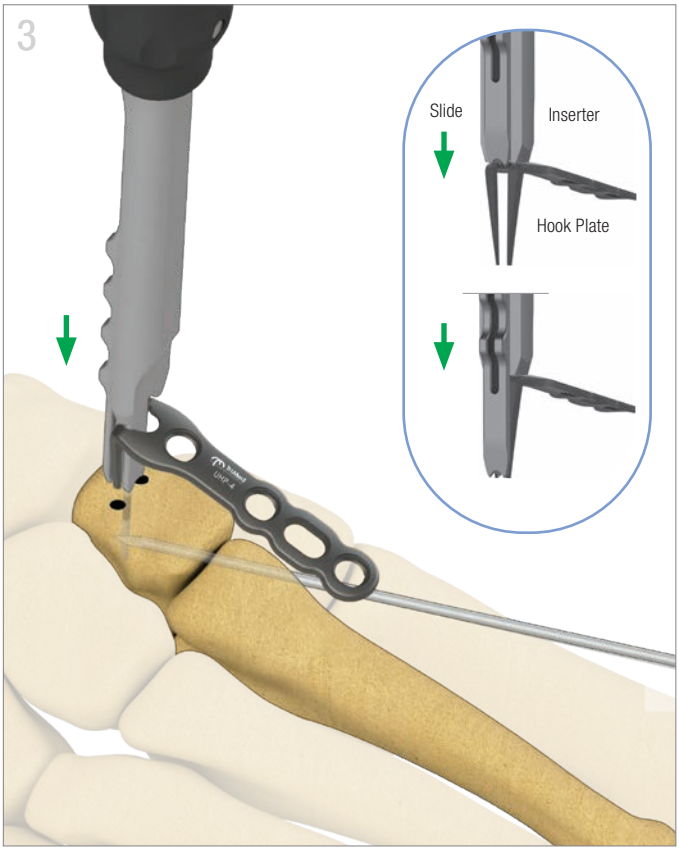


Plate Application on Proximal Bone

- Using plate benders or bending rods, contour plate to match the template.
- Assemble a Universal Hook Plate onto the Hook Plate Inserter.
- Insert the hooks into the peprared holes by sliding the assembly over the 1.1mm K-wire. **Note:** The inserter is cannulated to fit over the 1.1mm K-wire.
- If necessary, impact lightly to seat hooks into holes and plate flush onto the bone.
- Remove the Hook Plate Inserter.
- Prepare proximal holes for screws.[2] For locking screws, utilize the standard or variable angle locking drill guides. For non-locking cortical screws, use the standard drill guide.[3]
- Place and tighten appropriately sized screws.

[2] **Warning**: Irrigation is recommended during drilling.
[3] **Warning**: A screw placement at an angle exceeding 15° for locking and non-locking screws is NOT recommended.

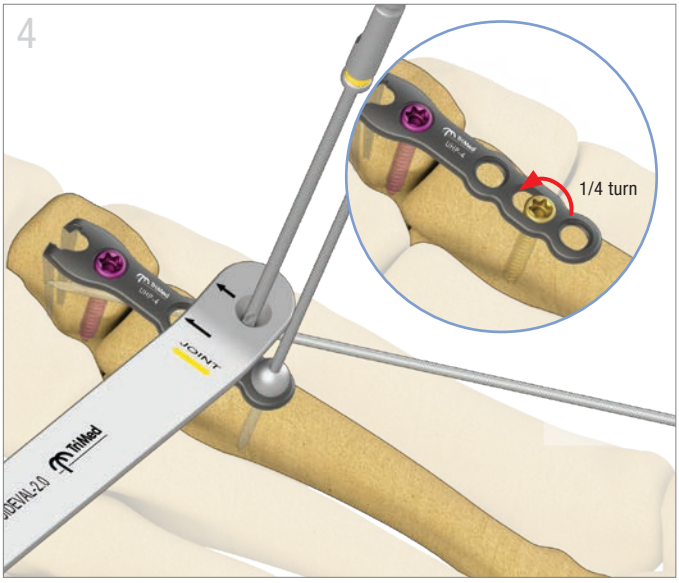
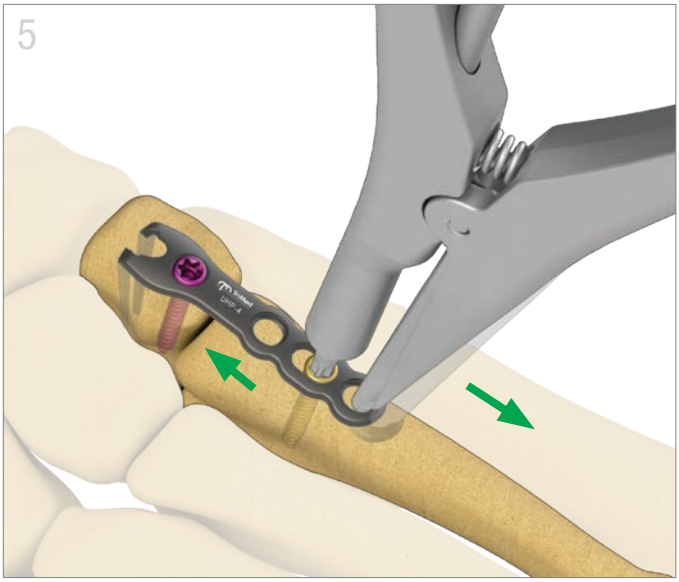


Plate Application on Distal Bone

- Position oblong drill guide in the slotted hole with the laser marked arrows pointing toward the joint.
- Drill a pilot hole for a bicortical **2.7mm or 3.5mm** non-locking screw.[4]
- Place and tighten an appropriately sized non-locking screw.
- Loosen the non-locking screw a **1/4** of a turn to allow the plate to slide underneath the screw head freely.
- Remove all K-Wires, olive wires, and plate tacks.

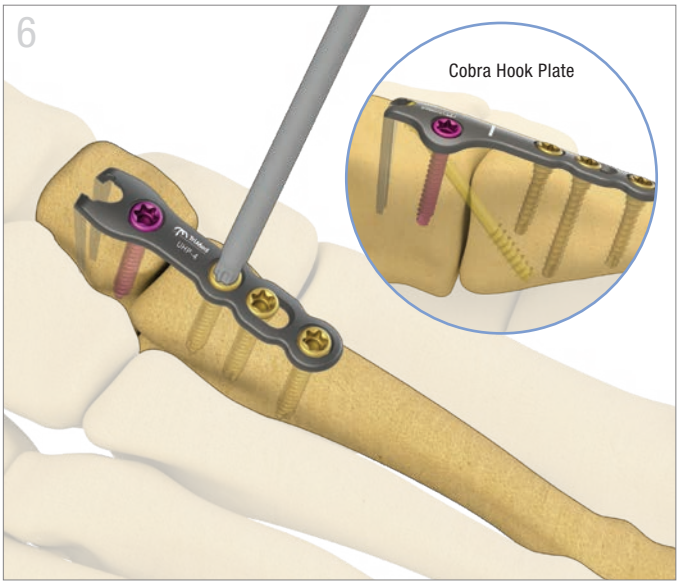
[4] **Warning**: Do not use a **4.0mm** non-locking screw in the slotted hole.



Surgeon-Controlled Compression

- Engage the driver tip of the Expander/Compression Tool with the socket of the screw in the slotted hole and the hook into the adjacent, distal hole.
- Gently squeeze the tool to apply the desired compression with one hand.[5] 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.[6]

[5] **Note:** Maximum screw travel in the slotted hole is 2.5mm.
[6] See **TIPS** for securing compression, if needed.

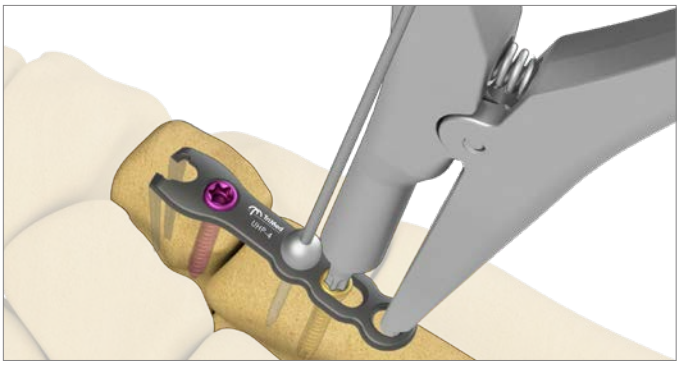


Final Fixation

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

All implants made from surgical grade titanium

TIPS



To Secure Compression Temporarily

Prior to releasing the Expander/Compression Tool from the compressed position, insert a K-wire or olive wire, if needed.

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-XX T	TRXV2.7-XX T	TRXC3.5-XX T	TRXV3.5-XX T	TRXC4.0-XX T	TRXV4.0-XX T
Length	08-40mm *	08-40mm *	08-50mm * 50-60mm **	08-50mm * 50-60mm **	08-50mm * 50-60mm **	08-50mm * 50-60mm **
Drill	● 2.0mm (2.7mm Overdrill)	● 2.0mm	● 2.3mm (3.5mm Overdrill)	● 2.3mm	● 2.7mm (4.0mm Overdrill)	● 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	T15	T15	T15	T15	T15	T15

* 2mm increments ** 5mm increments

Universal Hook Plate™

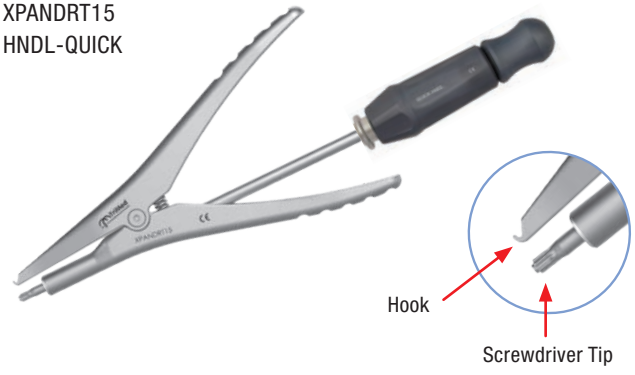
UHP-4
UHP-5

Cobra Hook Plate™

UHP-5W

Expander / Compression Tool

DVTX-15/180 AO
XPANDRT15
HNDL-QUICK



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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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For indications, contraindications, warnings and precautions related to TriMed ASET Foot Plating System reference IFU on trimedortho.com/ifu.

See trimedortho.com/patents for all patent information.