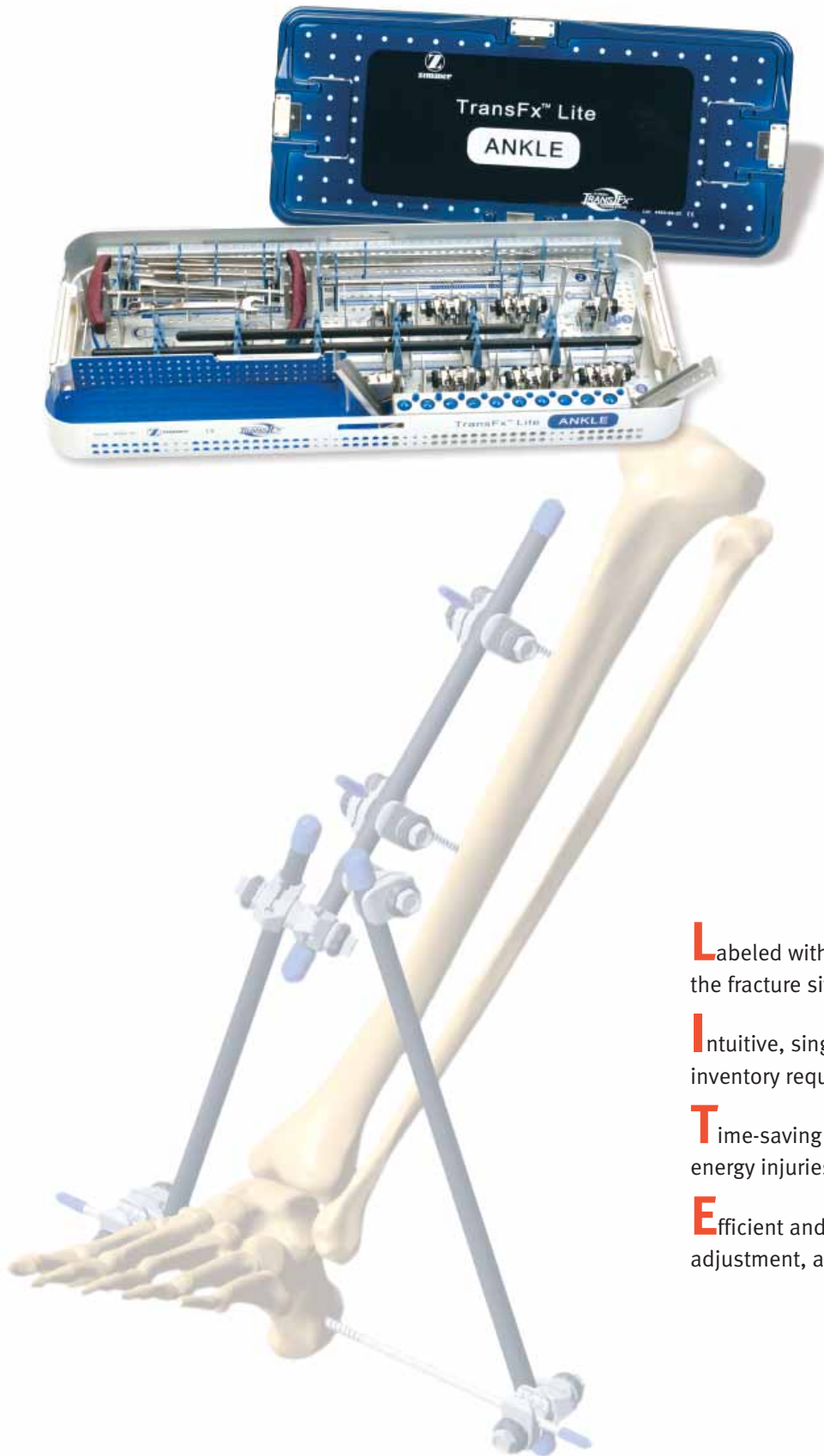




TransFx™ Lite Ankle Bridging Frame

Abbreviated
Surgical Technique



Labeled with specific frame construct to bridge the fracture site while soft tissue injuries subside

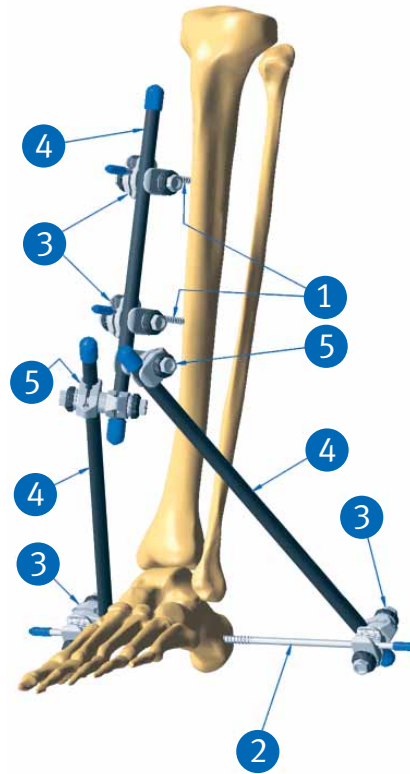
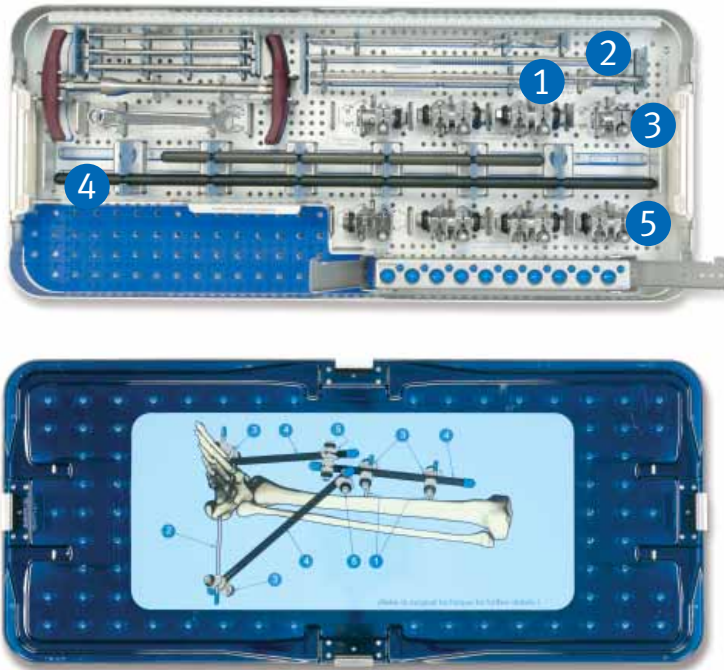
Intuitive, single layer cases designed to minimize inventory requirements

Time-saving and convenient for managing high energy injuries in the middle of the night

Efficient and easy to use for quick application, adjustment, and reduction



zimmer
Confidence in your hands®



1 Insert TransFx Half Pins

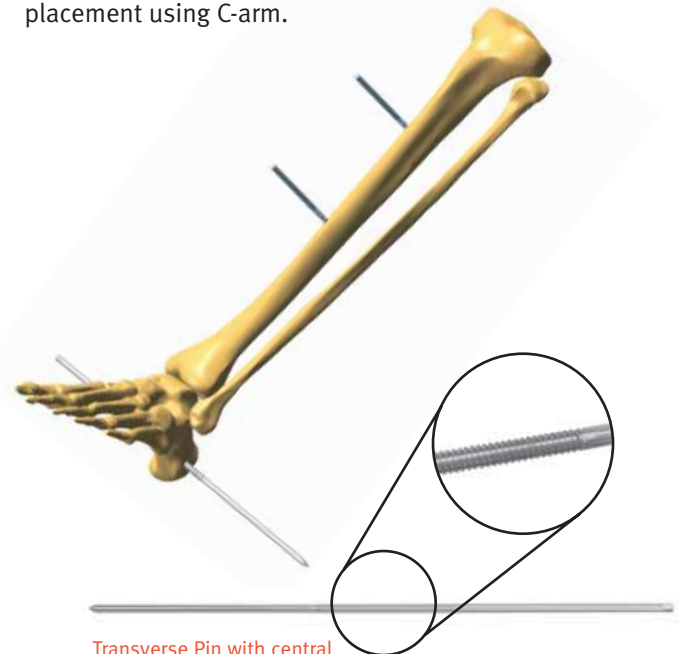
Insert two half pins ①* in safe zone of tibia independently, medial to the tibial crest in the medial subcutaneous surface. First insert distal pin proximal to the fracture site keeping in mind planned future fixation. Insert second pin proximal to first pin approximately 10cm apart.

Note: Pre-drilling is optional when using the TransFx self-drilling, self-tapping half pins.



2 Insert TransFx Transverse Pin

Insert transverse pin ② with central thread through safe zone of the calcaneal tuberosity from medial to lateral. The pin should be parallel to the ankle joint. Confirm pin placement using C-arm.



* Numbers in written text refer to numbers on lid underside and inside on the bottom of the case.

Transverse Pin with central thread 00-4453-056-30

3 Attach TransFx Pin-to-Rod Clamps

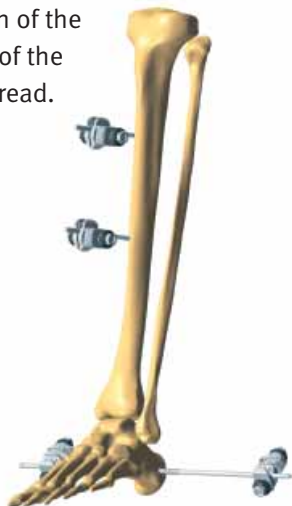
Loosely attach one pin-to-rod clamp (or universal clamp) ③ to each of the tibial half pins and each end of the transverse pin with central thread.



Pin-to-Rod Clamp
00-4452-025-51



Universal Clamp
00-4452-055-11



4 Attach TransFx Carbon Fiber Rod

Starting with tibial pin-to-rod clamps, attach an appropriate length carbon fiber rod ④ connecting the two tibial pins. The construct should be approximately two finger breadths above the skin to allow for swelling. Firmly tighten speed nuts on pin-to-rod clamps. Place protective cap on each end of carbon fiber rod.



5 Attach TransFx Rod-to-Rod Clamps

Attach two rod-to-rod clamps (or universal clamps) ⑤ to the tibial rod construct created in Step 4. Only finger tighten speed nuts until final reduction is achieved in Step 6.



Rod-to-Rod Clamp
00-4452-015-11



Universal Clamp
00-4452-055-11



6 Attach TransFx Carbon Fiber Rod

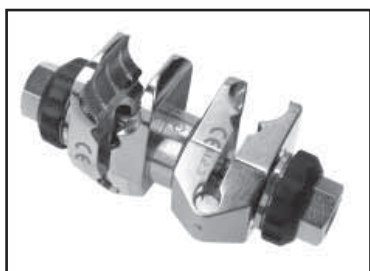
Attach two additional carbon fiber rods ④ extending from the rod-to-rod clamps down to the pin-to-rod clamps on the transverse pin with central thread in a triangular position. Apply distraction to reduce fracture. Confirm with C-arm. Completely tighten all clamps. Place protective caps on pins and rods.



Additional components may be necessary for alternative frame configurations or for added frame stability.

Ordering Information

Prod. No.	Description	QTY
00-4450-020-00	Ankle Bridging Case	
00-4450-020-02	Ankle Bridging Implant Kit includes the following:	
00-4451-001-30	Carbon Fiber Rod, 11mm X 300mm	3
00-4452-015-11	Rod-to-Rod Clamps, 11mm	2
00-4452-025-51	Pin-to-Rod Clamps, 11mm	4
00-4452-092-11	Protective Caps, 11mm	1 pk of 10
00-4452-092-45	Protective Caps, 4.5/5.0mm	1 pk of 10
00-4453-056-30	Transverse Pin with 50mm Central Thread 5.0mm/6.0mm x 300mm	1
00-4454-050-20	Self Drilling Pin, 5.0 X 200mm	2



Universal Clamp

Allows independent loosening and tightening capability on both sides of clamp for ease of frame construction. It is truly universal and can be used in place of the *TransFx* Pin-to-Rod or *TransFx* Rod-to-Rod clamp for simple inventory management. 4.5, 5.0 and 6.0mm pins conveniently snap-fit into the clamp which is useful in hard to reach spaces. The Universal Clamp is only available in the Large 11mm system.



Speed-Nut Technology

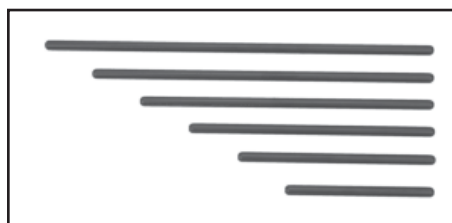
Innovative Speed-Nut clamp technology allows for initial finger tightening and therefore, provides ease of use, flexibility, and speed in frame construction.

Prod. No.	Description	QTY
00-4450-020-01	Ankle Bridging Instrument Kit includes the following:	
00-4450-049-00	Drill Sleeve Set w/Trocar, (2 each) 4.0/5.0mm x 135mm	1
00-4450-063-00	Drill Bit, 4.0mm x 195mm QC	1
00-4450-075-00	Combi Wrench, Large	1
00-4450-082-00	Pin Driver, Large	1
00-4450-093-00	Large Quick Connect to Hex Adapter	1
Additional components may be ordered separately.		
00-4452-055-11	Universal Clamp (Optional)	



Quick Connect to Hex Adapters

When speed and efficiency are important for the OR, the Quick Connect to Hex Adapters are a time saving tool that allows pins to be placed by easily sliding in and out of the adapter without the use of a Jacobs Chuck. The large adapter holds 4.5, 5.0 and 6.0mm pins while the intermediate adapter holds 2.5, 3.0, 3.5 and 4.0mm pins.



Various Lengths of Rods

Carbon fiber construction provides improved radiolucency. Rods are available in a variety of lengths up to 650mm providing frame construct options to fit anatomy.

Reference *TransFx* External Fixation System Large and Intermediate Surgical Technique 97-4450-003-00 for further details

Contact your Zimmer representative or visit us at www.zimmer.com

