

NanoPhix[™] Cannulated Lag Screw System

Surgical Technique

a Colson Medical | Marmon | Berkshire Hathaway Company

Acumed[®] is a global leader of innovative orthopaedic and medical solutions.

We are dedicated to developing products, service methods, and approaches that improve patient care.



NanoPhix[™] Cannulated Lag Screw System

The NanoPhix Lag Screw is intended to address small fracture fragments such as avulsion, mallet, condylar, spiral, oblique, Rolando, or Bennett fractures.

الدولي والم

Its 1.5 mm diameter and novel delivery technique facilitate this solution for these types of fractures.

	Definition
Warning	Indicates critical information about a potential serious outcome to the patient or the user.
Caution	Indicates instructions that must be followed in order to ensure the proper use of the device.
Note	Indicates information requiring special attention.

Table of Contents

System Features	2
Surgical Techniques	3
NanoPhix Cannulated Lag Screw System Surgical Techniques	3
Ordering Information	5

System Features

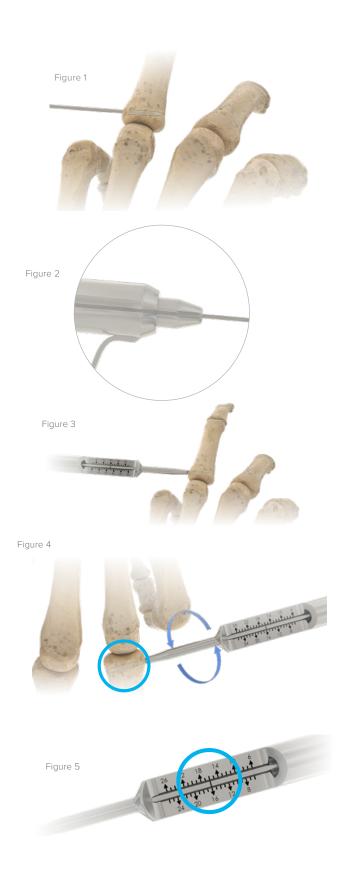
NanoPhix Cannulated Lag Screw System

The 1.5 mm Lag Screw has a unique delivery technique that eliminates the need for a wire collet + cannulated drill.

The system consists of 21 implants from 6–26 mm in 1 mm increments, 2 dual-diameter guide wires, a depth gauge, and a 1/16" hex driver. Implants and instruments come sterile packed.



NanoPhix Cannulated Lag Screw System Surgical Technique



Reduce Fracture and Insert Guide Wire

- 1. Reduce the fracture fragment under fluoroscopy with a closed reduction technique
- 2. Insert the dual-diameter guide wire percutaneously through the fracture fragment
- Fully advance the guide wire until the trocar tip passes the far side cortical wall and then retract until the trocar tip reaches the desired final implant position

Note: When advancing or retracting the guide wire, always clamp on only the larger-diameter end (figure 2). Clamping on the smaller-diameter end may apply excessive torsional stresses to the guide wire.

Tip: Depending on the fracture pattern and clinical assessment, open techniques may be utilized to optimally reduce the fracture. Avoid articular surfaces whenever possible.

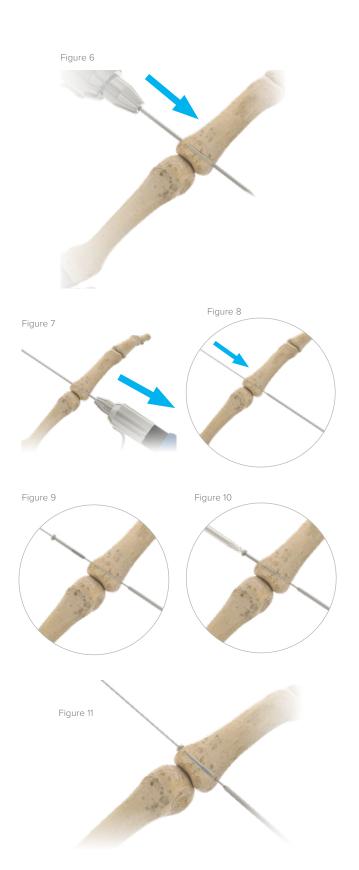
Measure and Select Implant Length and Size

- 1. Verify under fluoroscopy that the guide wire tip is positioned at the desired final implant tip location
- 2. Create a small stab incision adjacent to the guide wire entry site until the scalpel blade contacts the bone
- Insert the depth gauge / countersink over the guide wire until the depth gauge tip contacts the bone (confirm under fluoroscopy)
- If optional countersinking is desired, rotate the depth gauge in a clockwise and counterclockwise motion to countersink into the bone
- Use the laser mark on the guide wire (illustrated in figure 5 as 16 mm) to select the desired implant length

Tip: A #15 scalpel is recommended for incision. It may be appropriate to downsize the implant length by 2 mm or more from the depth gauge reading to account for any tissue between the depth gauge and bone, as well as for subosseous placement of the implant.

NanoPhix implants and surgical sets are packaged separately. NanoPhix surgical sets are compatible with all sizes of NanoPhix implants offered.

NanoPhix Cannulated Lag Screw System Surgical Technique [continued]



Insert Implant and Confirm Placement

- After measurement, clamp the larger-diameter end of the guide wire to advance it through bone until enough guide wire is exiting the far-side cortex to clamp
- Reposition the wire driver to the far-side cortex and clamp the larger-diameter end of the guide wire to draw the guide wire so that the smaller diameter spans the fracture site

Note: Be careful not to pull the guide wire completely out during this maneuver.

- 3. Slide the selected implant over the smaller-diameter end of the guide wire
- 4. Slide the driver down the guide wire until the driver tip engages the trailing end of the implant
- Using the driver, advance the implant along the smallerdiameter end of the guide wire until the fracture site is reached
- 6. Ensure proper reduction is maintained as the implant engages the distal fragment to prevent distraction at the fracture site

Note: Be careful not to pull the guide wire completely out during this maneuver.

- 7. Once the desired implant placement and reduction is achieved, verify under fluoroscopy
- 8. Clamp the larger-diameter end of the guide wire on the exiting end for removal

Check product-specific instructions for use. For complete product information, including indications, contraindications, warnings, precautions, and potential adverse effects, see the package insert and acumed.net.

Ordering Information

Multiple lengths for treatment of various fracture patterns: available in 1.5 mm diameter in lengths of 6-26 mm (1.0 mm increments)

Tray Components		
NanoPhix Lag Screw 1.5 mm x 6 mm	EXINN921506	
NanoPhix Lag Screw 1.5 mm x 7 mm	EXINN921507	
NanoPhix Lag Screw 1.5 mm x 8 mm	EXINN921508	
NanoPhix Lag Screw 1.5 mm x 9 mm	EXINN921509	
NanoPhix Lag Screw 1.5 mm x 10 mm	EXINN921510	
NanoPhix Lag Screw 1.5 mm x 11 mm	EXINN921511	
NanoPhix Lag Screw 1.5 mm x 12 mm	EXINN921512	
NanoPhix Lag Screw 1.5 mm x 13 mm	EXINN921513	
NanoPhix Lag Screw 1.5 mm x 14 mm	EXINN921514	
NanoPhix Lag Screw 1.5 mm x 15 mm	EXINN921515	
NanoPhix Lag Screw 1.5 mm x 16 mm	EXINN921516	
NanoPhix Lag Screw 1.5 mm x 17 mm	EXINN921517	
NanoPhix Lag Screw 1.5 mm x 18 mm	EXINN921518	
NanoPhix Lag Screw 1.5 mm x 19 mm	EXINN921519	
NanoPhix Lag Screw 1.5 mm x 20 mm	EXINN921520	
NanoPhix Lag Screw 1.5 mm x 21 mm	EXINN921521	
NanoPhix Lag Screw 1.5 mm x 22 mm	EXINN921522	
NanoPhix Lag Screw 1.5 mm x 23 mm	EXINN921523	
NanoPhix Lag Screw 1.5 mm x 24 mm	EXINN921524	
NanoPhix Lag Screw 1.5 mm x 25 mm	EXINN921525	
NanoPhix Lag Screw 1.5 mm x 26 mm	EXINN921526	

NanoPhix 1.5 mm Disposable Instrument Kit

NanoPhix 1.5 mm Instrument Kit Includes:

EXINN911500 2 Dual-Diameter Guide Wires, Single Trocar 1 Depth Gauge / Countersink Device 1 Cannulated Hex Driver



www.acumed.net

Acumed USA Campus 5885 NE Cornelius Pass Road Hillsboro, OR 97124 +1.888.627.9957 OsteoMed USA Campus 3885 Arapaho Road Addison, TX 75001 +1.800.456.7779 Acumed Iberica Campus C. Proción, 1 Edificio Oficor 28023 Madrid, Spain +34.913.51.63.57

SPF00-16-B | Effective: 2024/07 | © 2024 Acumed[®] LLC

These materials contain information about products that may or may not be available in any particular country or may be available under different trademarks in different countries. The products may be approved or cleared by governmental regulatory organizations for sale or use with different indications or restrictions in different countries. Products may not be approved for use in all countries. Nothing contained in these materials should be construed as a promotion or solicitation for any product or for the use of any product in a particular way that is not authorized under the laws and regulations of the country where the reader is located. Nothing in these materials should be construed as a representation or warranty as to the efficacy or quality of any product, nor the appropriateness of any product to treat any specific condition. Physicians may direct questions about the availability and use of the products described in these materials to their authorized Acumed distributor. Specific questions patients may have about the use of the products described in these materials or the appropriateness for their own conditions should be directed to their own physician.

Refer to the provided instructions for use for the complete indications, contraindications, warnings, and instructions for use.

ExsoMed[®] Corporation is a wholly owned subsidiary of Acumed LLC. ExsoMed and NanoPhix[®] are trademarks of ExsoMed Corporation. Acumed[®] is a registered trademark of Acumed LLC.