



# SmartNail<sup>®</sup>

## Surgical Technique

For Fixation of Fragments from  
Trauma or OCD Lesions

- Manufactured using proprietary  
Self-Reinforced polymers

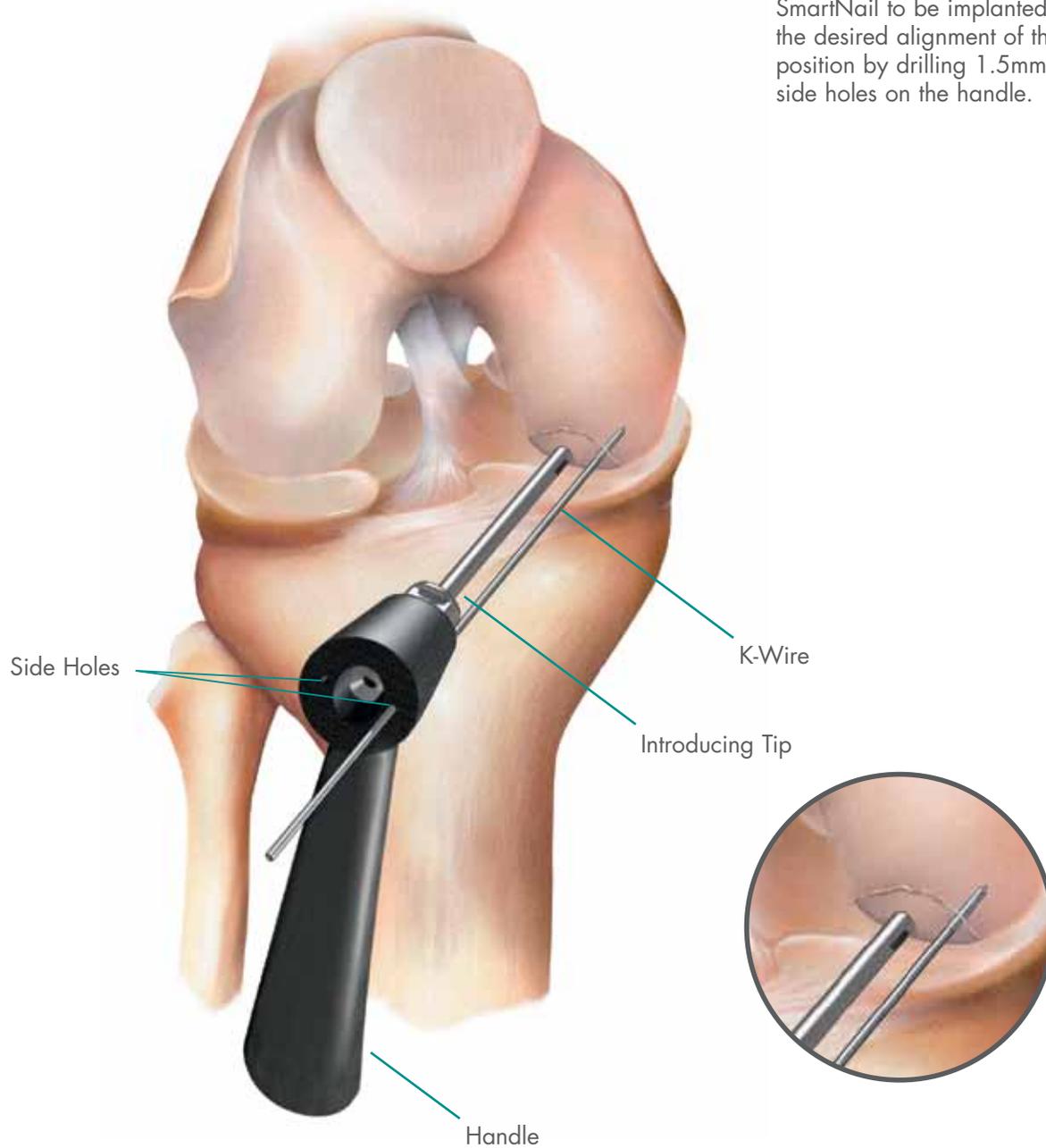
 CONMED<sup>™</sup>  
LINVATEC

# SmartNail<sup>®</sup> Surgical Technique

For Fixation of Fragments of Non Load Bearing Bones from Trauma or OCD Lesions

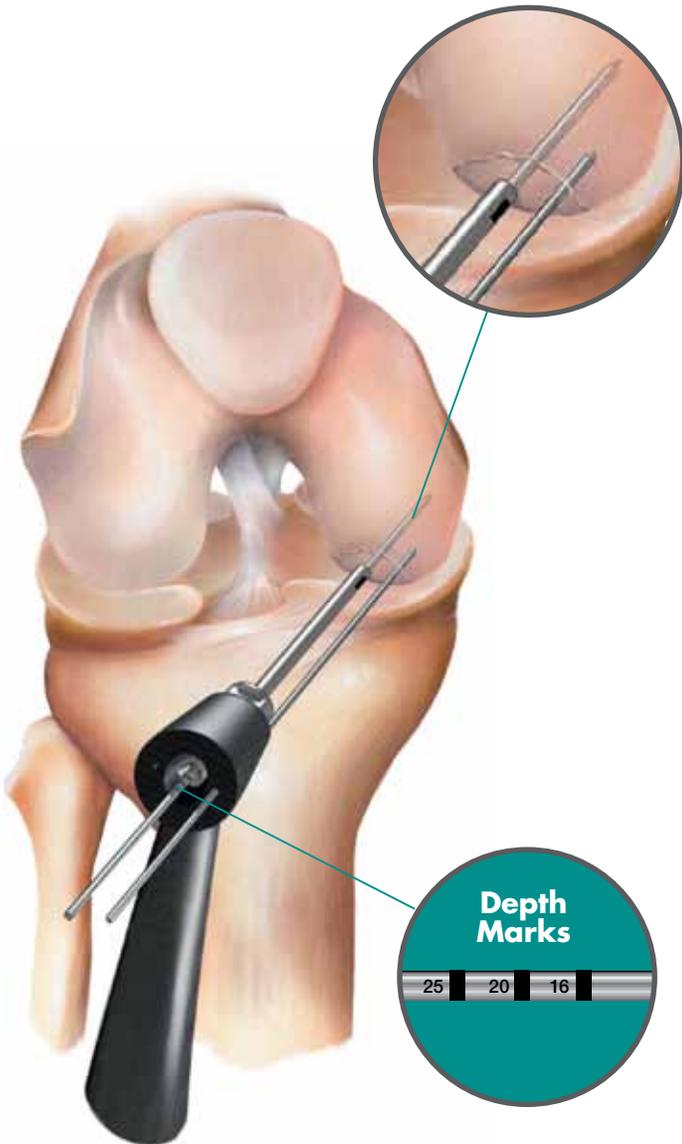
1

Screw the SmartNail Introducing Tip (Arthroscopic or Percutaneous) into the threaded front of the handle and tighten with the wrench. Insert the tip inside the joint on top of the fragment in the desired location for the SmartNail to be implanted. After establishing the desired alignment of the assembly, fix the position by drilling 1.5mm K-wires through the side holes on the handle.



2

Using a 1.5 or 2.4mm diameter SmartNail® Arthroscopic or Percutaneous Drill, drill through the fragment and into the solid bone. The drill has sizing depth marks indicating SmartNail length in millimeters. The drill should be advanced until the desired depth mark aligns with the flat rear portion on the handle and the distal edge of the window.



3

Insert the SmartNail implant into the back of the handle. Turn off the arthroscopic pump if water pressure prevents placement of nail into the back of the handle.

*The SmartNail surgical technique was developed in conjunction with Russell F. Warren, M.D., New York, NY.*

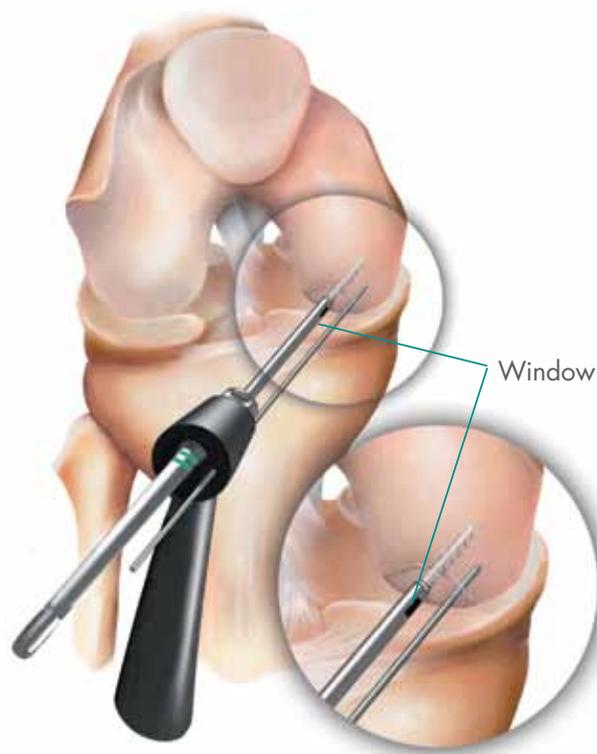
4

Insert the appropriate size Arthroscopic Piston into the back of the handle to advance the SmartNail® implant. The Arthroscopic and Percutaneous tips have a window to visualize the implant upon insertion.



**For Percutaneous procedures:** The SmartNail Percutaneous Piston is inserted into the distal end of the housing and then screwed into place on the rear part of the handle. The housing is turned approximately two revolutions to seat the rear part tightly to the handle.

**Note:** The housing will only work with the percutaneous piston.

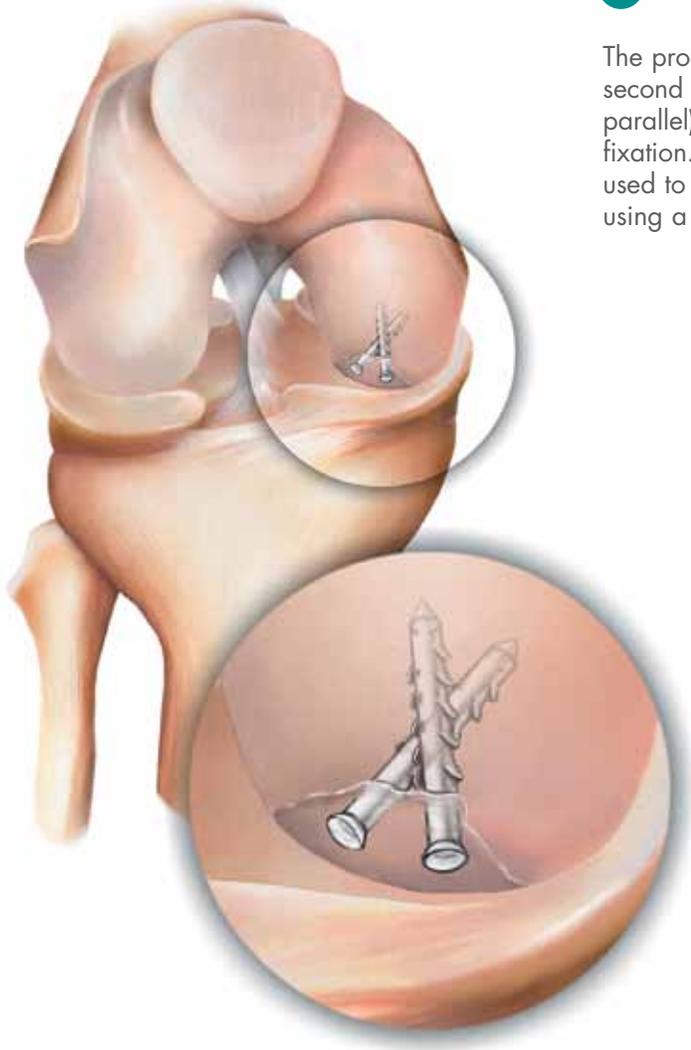


5

The SmartNail Piston is lightly tapped with a hammer, until the SmartNail implant is fully seated and penetrated totally beneath the tissue surface.

6

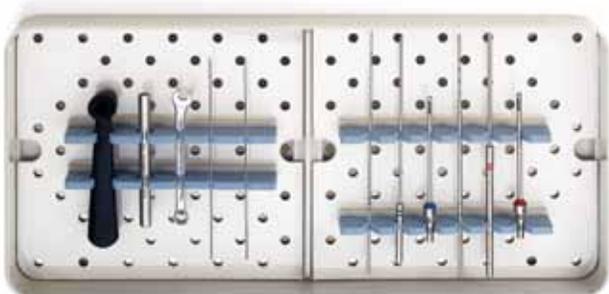
The procedure is repeated by inserting a second SmartNail® implant at an angle (not parallel) to the first SmartNail to secure the fixation. A third SmartNail implant may be used to improve fixation of the fragment by using a triangular approach.



# SmartNail<sup>®</sup> Product Information

The SmartNail<sup>®</sup> implant is a bioresorbable bone fixation nail intended for use in the repair of fractures or osteotomies of non-load bearing bones resulting from trauma or osteochondritis dissecans lesions.

The implant provides the compression needed during healing, but eliminates the need for a second surgery once healing is complete. The easy technique provides a simple and quick insertion.



## ORDERING INFORMATION

Ref. No.	Description	Size
<b>Implants</b>		
531516	SmartNail (96L/4D) PLA	1.5mm O.D. x 16mm L
531520	SmartNail (96L/4D) PLA	1.5mm O.D. x 20mm L
531525	SmartNail (96L/4D) PLA	1.5mm O.D. x 25mm L
532416	SmartNail (96L/4D) PLA	2.4mm O.D. x 16mm L
532425	SmartNail (96L/4D) PLA	2.4mm O.D. x 25mm L
532435	SmartNail (96L/4D) PLA	2.4mm O.D. x 35mm L
532445	SmartNail (96L/4D) PLA	2.4mm O.D. x 45mm L

### General Instruments

AA1520-01	Handle
AA1520-04	Housing, use with Percutaneous Piston
AA1520-05	Wrench
AA1520-07	K-Wire (2 each)

### 1.5mm Set

AT1500	1.5mm Arthroscopic Tip (Green)
AP1500	1.5mm Arthroscopic Piston
DB1500	1.5mm Arthroscopic Drill Bit
SN1520-021	1.5mm Percutaneous Tip (Blue)
SN1520-031	1.5 Percutaneous Piston
SN1520-061	1.5 Percutaneous Drill Bit

### 2.4mm Set

AT2400	2.4mm Arthroscopic Tip (Yellow)
AP2400	2.4mm Arthroscopic Piston
DB2400	2.4mm Arthroscopic Drill Bit
PT2400	2.4mm Percutaneous Tip (Red)
PP2400	2.4mm Percutaneous Piston
DB2401	2.4mm Percutaneous Drill Bit

### Sterilization Tray

ST1007	Sterilization Tray (new plates)
STP1500	Sterilization plate 1 (general instruments)
STP1524	Sterilization plate 2 (other instruments)

### An easy resorbable solution

- » Proprietary Self-Reinforced 96L/4D PLA copolymer
- » Effective alternative to metal implants, autogenous transfer systems or regeneration techniques
- » Low profile, round, flat head promotes healing by providing more compression across the fracture when compared to headless implants, while remaining countersunk at full insertion
- » Barbs along the distal portion of the implant increase compression and pull-out compared to smooth pins
- » Available in 1.5 and 2.4mm diameters

U.S. Patent 4,968,317

#### CONMED CORPORATION PRODUCT AREAS:

ARTHROSCOPY • ELECTROSURGERY • ENDOSCOPY • ENDOSURGERY • GASTROENTEROLOGY • INTEGRATED SYSTEMS • PATIENT CARE • POWERED INSTRUMENTS • PULMONOLOGY



11311 Concept Boulevard  
 Largo, FL 33773-4908  
 (727) 392-6464  
 Customer Service: 1-800-237-0169  
 FAX: (727) 399-5256  
 International FAX: +1 (727) 397-4540  
 email: customer\_service@linvatec.com  
 www.linvatec.com