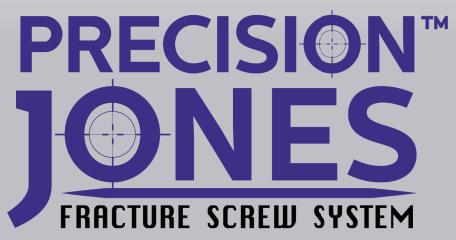
JONES FRACTURE USING THE PRECISION™ JONES FRACTURE SCREW SYSTEM







JONES FRACTURE USING THE PRECISION™ JONES FRACTURE SCREW SYSTEM

Acknowledgment:

Paragon 28® would like to thank Patrick Yoon, MD for his contribution to the development of the surgical technique guide.

PRODUCT DESCRIPTION-

The PRECISION™ Jones Fracture Screw System offers extensive options of Type II Anodized Titanium screws.

System-specific instrumentation is designed to address procedural challenges while helping to provide maximum stability across fracture sites.

SCREW OFFERING -

PRECISION™ Jones Fracture Screw System (120 unique implants)

Solid Screws



Cannulated Screws



Screw Features:

- Constructed from Titanium Alloy that is Type II Anodized for improved fatigue strength
- Shorter, cortical-type threads
- Blunt tip

FEATURED INSTRUMENTS -

Nitinol K-wire

- 1.5 mm thickness
- Pliability allows for K-wire to follow pathway through medullary canal, rather than exiting the cortex if initial angle is not centered
- Made of flexible Nitinol for use with provided curved K-wire guide

Curved K-wire Guide (patent pending)

- Helps to create ideal "high and inside" K-wire entry point
- Designed to avoid surgeon and handle contact with surrounding soft tissues
- Tip of guide is shaped to match angle of proximal 5th metatarsal
- Handle is perpendicular to the K-wire exit trajectory, which can be used as a reference for K-wire orientation
- Allows surgeon to adjust K-wire guide in the transverse plane
- Intended to ease insertion of K-wire resulting in less use of fluoroscopy and shorter operative time

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OTHER INSTRUMENTATION-

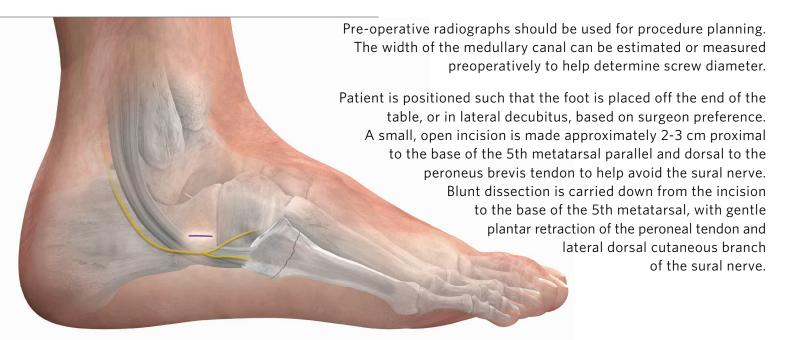
NOTE: All instrumentation is cannulated to be used over the Nitinol K-wire. A cannulated or solid screw can be inserted for final fixation depending on surgeon preference.





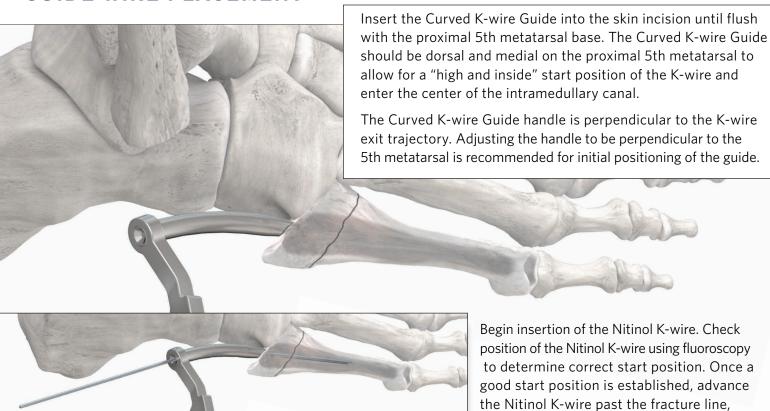
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INCISION/EXPOSURE —



TIP: In the case of a non-union or for a patient where bone graft is required, a second incision is made over the fracture site or a single continuous incision can be made for screw entry and fracture site preparation. Blunt dissection is carried down to the fracture site and necrotic bone is debrided from the area. Bone graft is packed into the site.

GUIDE WIRE PLACEMENT-



but ending before the curve in the distal diaphysis of the 5th metatarsal shaft.

Confirm wire placement using fluoroscopy.

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SCREW SELECTION AND INSERTION -



NOTE: All instrumentation is cannulated for bone preparation for the PRECISION Jones Fracture Screw System. A cannulated or solid screw can be inserted with this technique.

Screw length is measured using the depth gauge. A screw may also be held up to the lateral aspect of the foot with forceps and checked under fluoroscopy to confirm that all screw threads are distal to the fracture line.

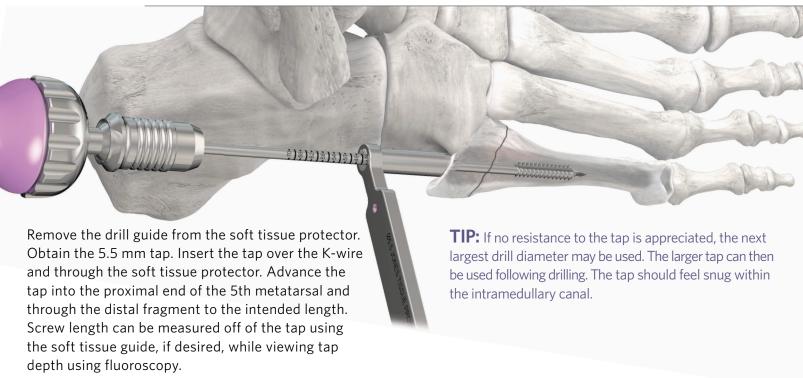
Once optimal position is obtained, place the 5.5 mm Soft Tissue Protector over the Nitinol K-wire and through the incision.

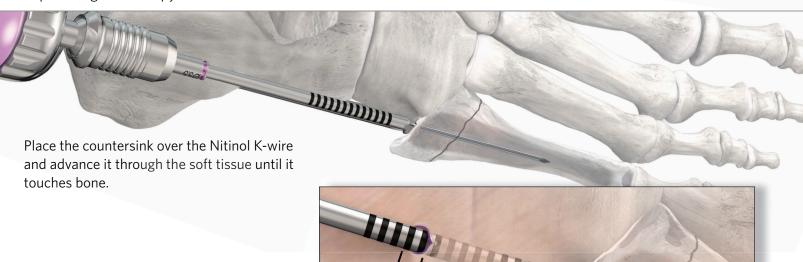
Seat the drill guide fully into the soft tissue protector. Next advance the 3.8 mm drill through the near cortex and past the fracture site.

TIP: If no resistance to the drill is appreciated, the next largest drill diameter may be used.

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SCREW SELECTION AND INSERTION

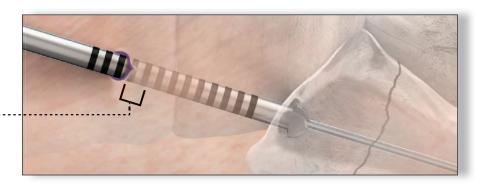




NOTE: The laser markings (silver or black) - are seen at the skin where the countersink touches bone.

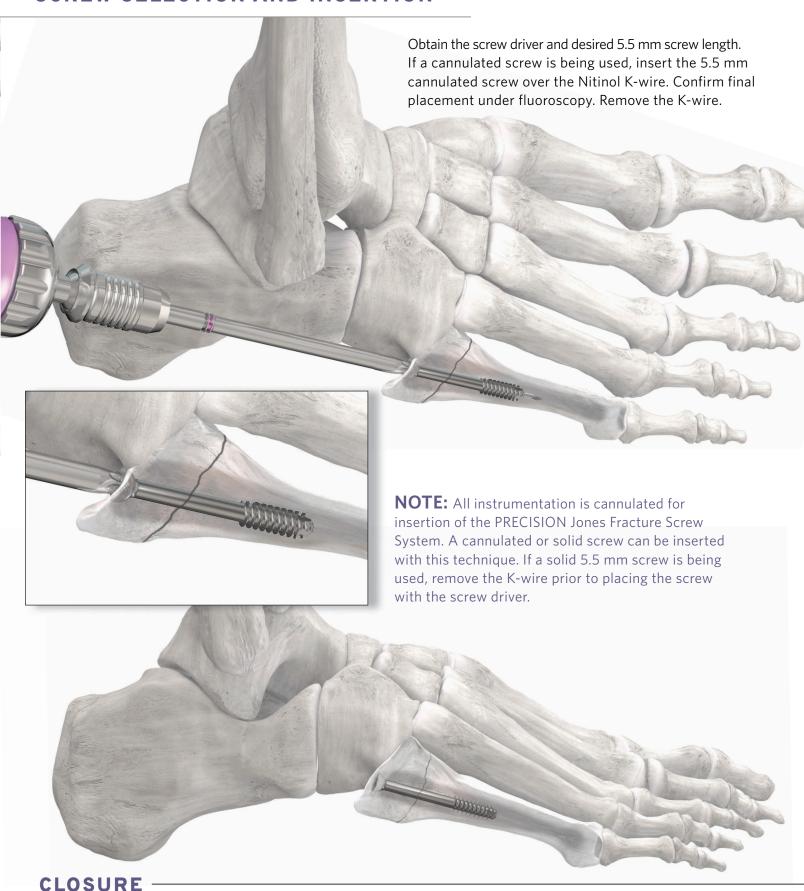
Continue to advance the countersink until ---three total sections (silver or black)
are buried in the soft tissue.

Each line segment, black or silver, denotes 1/3 of the screw head depth.



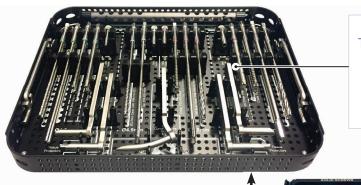
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SCREW SELECTION AND INSERTION -



Proceed to incision closure or concomitant procedures at this time.

PRECISION™ JONES FRACTURE SCREW SYSTEM



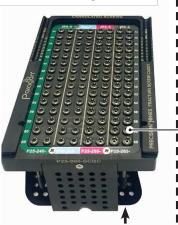
Instrument Tray

The Curved K-wire Guide, 1.5 mm Nitinol K-wires, countersinks, tissue protectors, taps, drills and drill guides for each size of PRECISION™

Jones Fracture Cannulated or Solid Screws are located in the top Instrument Tray.

Solid Screw Caddy

Two solid PRECISION™ Jones Fracture Screws are available for each length. The Solid Screw Caddy options range from 34-65 mm in length.



Cannulated Screw Caddy

Two cannulated PRECISION™ Jones Fracture Screws are available for each length.

The Cannulated Screw Caddy options range from 34-65 mm in length.



PRECISION™ Jones Fracture Screw System Case

A depth gauge, forceps, handles and a Jacobs adapter are located at the bottom of the PRECISION TM Jones Fracture Screw System Case.

SURGICAL TECHNIQUE GUIDE: INDICATIONS, CONTRAINDICATIONS, AND WARNINGS

Refer to www.paragon28.com/ifus for the complete and most current instructions for use document.

INDICATIONS FOR USE (MONSTER®)

The Monster® Screw System is indicated for use in bone reconstruction, osteotomy, arthrodesis, joint fusion, ligament fixation, fracture repair and fracture fixation of the foot and ankle, including the tibia, fibula, tarsus, metatarsals, and phalanges and the joints and ligaments coupling said bones, appropriate for the size of the device.

CONTRAINDICATIONS-

Use of the Monster® Screw System is contraindicated in cases of inflammation, cases of active or suspected sepsis / infection and osteomyelitis; or in patients with certain metabolic diseases.

All applications that are not defined by the indications are contraindicated. In addition, surgical success can be adversely affected by:

- Acute or chronic infections, local or systemic
- Vascular, muscular or neurological pathologies that compromise the concerned extremity
- All concomitant pathologies that could affect the function of the implant
- Osteopathies with reduced bone substance that could affect the function of the implant
- Any mental or neuromuscular disorder that could result in an unacceptable risk of failure at the time of fixation or complications in post-operative treatment
- Known or suspected sensitivity to metal
- Corpulence; an overweight or corpulent patient can strain the implant to such a degree that stabilization or implant failure can occur
- Whenever the use of the implant comes into conflict with the anatomical structures of physiological status

Other medical or surgical pre-conditions that could compromise the potentially beneficial procedure, such as:

- The presence of tumors
- Congenital abnormalities
- Immunosuppressive pathologies
- Increased sedimentation rates that cannot be explained by other pathologies
- Increased leukocyte (WBC) count
- Pronounced left shift in the differential leukocyte count

POTENTIAL COMPLICATIONS AND ADVERSE REACTIONS-

In any surgical procedure, the potential for complications and adverse reactions exist. The risks and complications with these implants include:

- Loosening, deformation or fracture of the implant
- Acute post-operative wound infections and late infections with possible sepsis
- Migration, subluxation of the implant with resulting reduction in range of movement
- Fractures resulting from unilateral joint loading
- Thrombosis and embolism
- Wound hematoma and delayed wound healing
- Temporary and protracted functional neurological perturbation
- Tissue reactions as the result of allergy or foreign body reaction to dislodged particles
- Corrosion with localized tissue reaction and pain
- Pain, a feeling of malaise or abnormal sensations due to the implant used
- Bone loss due to stress shielding

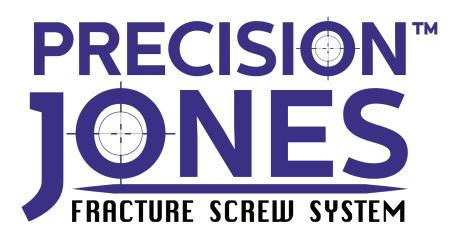
All possible complications listed here are not typical of Paragon 28®, Inc. products but are in principle observed with any implant. Promptly inform Paragon 28® as soon as complications occur in connection with the implants or surgical instruments used. In the event of premature failure of an implant in which a causal relationship with its geometry, surface quality or mechanical stability is suspected, please provide Paragon 28® with the explant(s) in a cleaned, disinfected and sterile condition. Paragon 28® cannot accept any other returns of used implants. The surgeon is held liable for complications associated with inadequate asepsis, inadequate preparation of the osseous implant bed in the case of implants, incorrect indication or surgical technique or incorrect patient information and consequent incorrect patient behavior.

WARNINGS AND PRECAUTIONS -

- Re-operation to remove or replace implants may be required at any time due to medical reasons or device failure. If corrective action is not taken, complications may occur.
- Use of an undersized screw in areas of high functional stresses may lead to implant fracture and failure.
- Plates and screws, wires, or other appliances of dissimilar metals should not be used together in or near the implant site.
- The implants and guide wires are intended for single use only. Re-use may cause product failure and could lead to disease transmission.
- Instruments, guide wires and screws are to be treated as sharps.
- Do not use other manufacturer's instruments or implants in conjunction with the Monster® Screw System.

MR SAFETY INFORMATION

The Monster® Screw System has been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration or image artifact in the MR environment. The safety of the Monster® Screw System in the MR Environment is unknown. Scanning a patient who has this device may result in patient injury.



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DISCLAIMER

The purpose of the PRECISION™ Jones Surgical Technique Guide is to demonstrate the optionality and functionality of the PRECISION™ Jones implants and instrumentation. Although variations in placement and use of the PRECISION™ Jones Screw System can be performed, the fixation options demonstrated in this technique were chosen to demonstrate the functionality of the system and for simplicity of explanation. Other uses for the PRECISION™ Jones Screw System can be employed, appropriate for the size of the device.