



Zimmer Natural Nail System Antegrade Femoral Nail Surgical Technique

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Product Overview

The Zimmer® Natural Nail® System is a system of intramedullary (IM) nails, screws, instruments and other associated implants that are designed to provide stable internal fixation for fractured long bones. The nails have been designed for specific applications to help restore the shape of the fractured bone to its natural, pre-injured state.

The Antegrade Femur nails are designed to help treat various fractures of the femur. Different nails are available to be placed through the tip of the Greater Trochanter or through the Piriformis Fossa. Screws are placed through the nail to secure the implant in place and maintain length and alignment while healing occurs. The nails have multiple screw holes in the proximal body to allow surgeons to address different fracture types. Proximal and distal slots allow for compression or dynamization across a fracture.

Implant Overview

Greater Trochanter

Nail Diameters: 8.3, 9.3, 10, 11, 12, 13, 14 mm

Nail Lengths: 8.3 mm, 24 to 40 cm in 2 cm increments

9.3 mm and larger, 24 to 48 cm in 2 cm increments

CCD Angle: 132°

Piriformis Fossa

Nail Diameters: 9.3, 10, 11, 12, 13, 14, 15 mm

Nail Lengths: 24 to 48 cm in 2 cm increments

CCD Angle: 128° Universal

Proximal Screw Diameters

5.0 mm for transverse holes (with Stabilize Technology)

6.0 mm for Recon/Descending holes

Distal Screw Diameters (with Stabilize Technology)

4.0 mm for 8.3 mm nails

5.0 mm for 9.3 mm and larger nails

Screw Lengths

4.0 mm: 20 to 60 mm in 2.5 mm increments

65 to 100 mm in 5 mm increments

5.0 mm: 20 to 60 mm in 2.5 mm increments

65 to 100 mm in 5 mm increments

6.0 mm: 50 to 140 mm in 5 mm increments

Screws available in fully- and partially-threaded configurations.

Materials: Ti-6AI-4V alloy

Precision instrumentation is provided to help implant the nail. Many of the instruments and implants feature a color coding system to help the surgical team use the system. Certain universal instruments are not color coded. The color coding system is referenced in the technique. A wall chart (97-2491-00300) is also available to help explain the color coding system.

Indications

The Zimmer Natural Nail system is indicated for temporary fracture fixation and stabilization of the bone.

Indications for use of the Greater Trochanter and Piriformis Fossa nails in the femur include:

- Compound and simple shaft fractures
- Proximal, metaphyseal and distal shaft fractures
- · Segmental fractures
- Comminuted fractures
- Fractures involving osteopenic and osteoporotic bone
- · Pathological fractures
- Fractures with bone loss
- Pseudoarthrosis, non-union malunion and delayed union
- Periprosthetic fractures
- Surgically created defects such as osteotomies
- Intertrochanteric and subtrochanteric fractures

Contraindications

- A medullary canal obliterated by a previous fracture or tumor
- Bone shaft having excessive bow or deformity
- Lack of bone substance or bone quality which makes stable seating of the implant impossible
- All concomitant diseases that can impair the functioning and the success of the implant
- Infection
- · Insufficient blood circulation
- Skeletally i mmature patients

In the European Economic Area (EEA), the Zimmer Natural Nail Piriformis Fossa and Greater Trochanter Antegrade Femoral Nails are indicated for temporary stabilization and fixation of femoral fractures and osteotomies.

WARNING: This nail should only be used to treat a periprosthetic fracture if the in situ device is firmly fixed. When treating a periprosthetic fracture, the nail should be positioned so that it does not come in contact with the in situ device.

Surgical Technique

Preoperative Planning

Preoperative planning is recommended before beginning the surgical procedure. A/P and Lateral x-rays of the injured femur should be taken preoperatively and evaluated for length, canal size and implant suitability. A/P and Lateral x-rays of the contralateral uninjured femur can also be taken preoperatively to provide insight into the characteristics of the preinjured femur.

Patient Positioning

The patient should be positioned in either a lateral or supine position. If positioned in a supine position, a bump should be placed under the hip of the injured femur to elevate it slightly. The use of a fracture table can be beneficial to help during fracture reduction as well as to facilitate intraoperative imaging with a C-arm. The C-arm should be placed to allow for imaging of the femur in both planes along the entire length of the bone. If reconstruction screws are planned, the C-arm must allow for lateral imaging of the femoral head and neck. Adduction of the injured femur can also be helpful when placing reconstruction screws.

Drape the patient appropriately to allow the surgeon to work from the hip to the knee.

Reduction

It is critical to achieve anatomic reduction before beginning any of the steps to place the IM Nail. Traction should be used as necessary to help achieve fracture reduction. Several instruments are available to assist in fracture reduction including clamps, reduction tongs, ball spike pushers and Steinman pins.

Certain portions of the surgical procedure differ depending on whether a surgeon chooses to use a Greater Trochanter Entry Point Nail or a Piriformis Fossa Entry Point Nail. Please follow the appropriate portion of the technique that directs use of the chosen nail type. Most pictures depict use of the Greater Trochanteric Entry Point. Do not attempt to use the Greater Trochanter Entry Point Nail through a Piriformis Fossa Entry Point or vice versa.

Intended Purpose

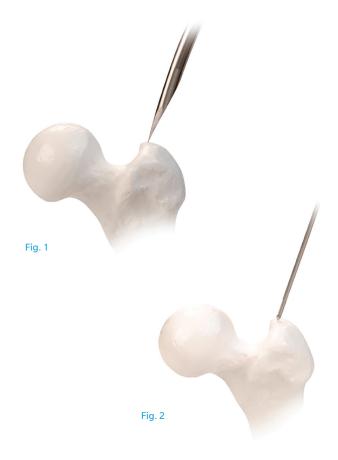
The Zimmer Natural Nail System
is intended for temporary fracture
fixation and stabilization of the
bone. The system includes tibial and
femoral (antegrade and retrograde)
nails, as well as screws that are
intended for stabilization of fractures
during the healing process.

Greater Trochanter Entry Point

Starting Point Location

The starting point for the nail is located on the tip of the greater trochanter (Figure 1). On the AP image, the starting point should be on the tip of the greater trochanter, not lateral. On the lateral image, the starting point should be in the midpoint of the greater trochanter. For a proximal femur fracture where recon screws will be used, the entry point on the lateral image is at the junction of the anterior 1/3 and the posterior 2/3 of the greater trochanter.

Begin the skin incision 3 cm proximal to the greater trochanter. A larger incision may be desired for obese patients. Split the fascia of the gluteus maximus in line with its fibers. Identify the subfascial plane of the gluteus medius, and palpate the posterior tip of the greater trochanter. A 3.0 mm threaded pin can also be used to create a stab incision and advanced down to the greater trochanter (Figure 2). The ENTRY CANNULA STARTING POINT LOCATOR placed inside the ENTRY CANNULA can also assist with dissection down to the bone (Figure 3).

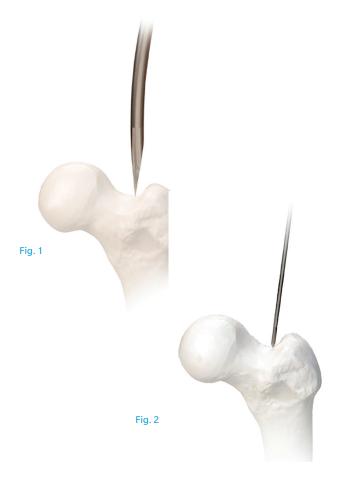


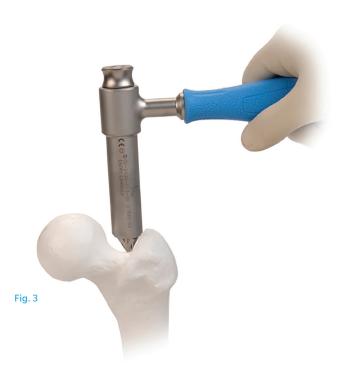


Piriformis Fossa Entry Point

Starting Point Location

The starting point for the nail is located in the piriformis fossa for a standard shaft fracture (Figure 1). For a proximal femur fracture where recon screws will be used, the entry point is 5 mm anterior to the normal piriformis entry point. Begin the skin incision 3 cm proximal to the greater trochanter. A larger incision may be desired for obese patients. Split the fascia of the gluteus maximus in line with its fibers. Identify the subfascial plane of the gluteus medius, and palpate the posterior tip of the greater trochanter. A 3.0 mm threaded pin can also be used to create a stab incision and gain entry into the fossa (figure 2). The ENTRY CANNULA STARTING POINT LOCATOR placed inside the ENTRY CANNULA can also assist with dissection down to the bone (Figure 3).





Place the 3.0 mm threaded pin into the starting point. Use the C-arm to visualize the pin's position from A/P and Lateral views. The pin should be inserted at the identified point in the direction of the center of the medullary canal.

Drive the pin through the starting point into the center of the medullary canal. Use the 8.0 mm ENTRY REAMER to ream an entry portal into the proximal femur through the starting point (Figure 4). Remove the reamer and 3.0 mm pin. CAUTION: If the guide wire is bent shorter than 5 cm from the end of the wire and/or more than 10 degrees it may be difficult to remove from the nail. If the wire becomes lodged inside the nail, utilize the GUIDE WIRE GRIPPER and mallet to remove the guide wire from the nail.

Fluoroscopy can assist you in guiding the wire past the fracture site. If you plan to ream the canal of the femur, the ball tip wire should be centered and embedded in the distal femur at the level of the

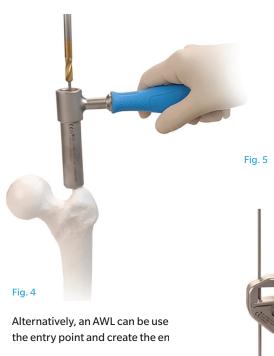
Fig. 6

distal epiphyseal scar using the GUIDE WIRE GRIPPER and a MALLET (Figure 6). Care should be taken not to drive the wire through the distal femur.



A REDUCTION FINGER is included in the set. The ball tip guide wire can be fed retrograde through the REDUCTION FINGER. The REDUCTION FINGER can then be placed into the femur and used to help reduce the femur from the inside as well as to help facilitate passage of the guide wire past the fracture site.

Assemble the two piece NAIL LENGTH GAUGE. Slide the tube portion of the gauge over the 3.0 mm x 100 cm ball tip guide wire until the tip of the tube is at the level of the entry point (confirm position using fluoroscopy) (Figure 7). The proximal end of the ball tip guide wire indicates the length of the wire in the canal. When determining nail length, consideration should be taken as to how deep the nail will be inserted into the femur based upon the desired location of the proximal screws. A RULER is also included in the set which can be used to radiographically determine nail length.



Place a 3.0 mm x 100 cm BALL TII WIRE (00/47-2255-008-01) into medullary canal all the way into t femur (Figure 5). To aid in manip bend the tip of the guide wire at angle 5 cm from the end.

Proximal Reaming

Use the 14.5 mm TAPERED REAMER to prepare the proximal femur for the proximal portion of the nail (Figure 8). The C-arm should be used to visualize the depth of the reamer in the proximal femur. Care should be taken to keep the reamer in line with the shaft of the femur to avoid reaming through the cortex of the femur.



The 14.5 mm TAPERED REAMER has three grooves on it. The most proximal groove indicates the final position of the top of the nail. The two distal grooves help visualize the placement of the recon screws. Visualizing a line between these grooves on each side of the reamer (under fluoroscopy) will indicate the approximate centerline between the recon screws to help facilitate placement in the femoral neck and head.

8.3 mm Greater Trochanter Entry Point Nail Note: The 8.3 mm nail has a proximal diameter of 12.0 mm. With this size nail, a shaft reamer should be used, instead of the 14.5 mm TAPERED or CHANNEL REAMER, to create an opening 13.0 to 13.5 mm in diameter proximally. This will allow the head of the nail to be safely inserted into the bone, without removing an excess amount of bone.

A CHANNEL REAMER is also available for proximal reaming. The INNER CHANNEL REAMER is placed inside the 14.5 mm CHANNEL REAMER SLEEVE and secured by twisting the connector. The CHANNEL REAMER is then advanced over the guide wire through the piriformis fossa/greater trochanter. Advance the reamer to level of the lesser trochanter (Figure 9) or deep enough to acco mmodate the proximal body of the nail. Care should be taken to keep the reamer in line with the shaft of the femur to avoid reaming through the cortex of the femur.

After reaming to the proper depth to acco mmodate the proximal body of the nail, the INNER CHANNEL REAMER is removed by disengaging the connector and pulling the INNER CHANNEL REAMER out of the surgical field (Figure 10). The CHANNEL REAMER SLEEVE can be left in place to act as a tissue protection sleeve during shaft reaming for shaft reamers up to 13 mm in diameter. To achieve greater reaming depth or diameter, the ENTRY CANNULA can be used in place of the sleeve. To facilitate reamer removal



via the sleeve, power the reamer until it enters the sleeve. Following shaft reaming the CHANNEL REAMER SLEEVE should be removed from the surgical field (Figure 11).





Shaft Reaming

Start with a small Zimmer® Pressure
Sentinel® Reamer. Increase the diameter
of the reamer by 0.5 - 1.0 mm depending
on the amount of resistance felt while
reaming (Figure 13). The GUIDE WIRE
PUSHER can help prevent the ball tip guide
wire from coming out of the femur during
reaming. When cortical chatter occurs,
stop reaming. Choose a nail that is 1.0 1.5 mm smaller than the last reamer used.
The proximal diameter of nails smaller
than 13 mm is 13 mm. For nails 13 mm and
larger in diameter, the diameter of the nail
is constant.

NOTE: If the Guide Wire becomes lodged within the reamer, use the Guide Wire





Pusher to push the Guide Wire back into the IM canal.

Nail Assembly and Insertion

The color code for the antegrade femur nails is GREEN. Ti-6Al-4V alloy nails, the TARGETING GUIDE and the CONNECTING BOLT all have GREEN colors on them, as well as the word GREEN etched on them.

Place the CONNECTING BOLT through the barrel of the TARGETING GUIDE HANDLE (Figure 14). Rotate the nail around the CONNECTING BOLT to begin threading the bolt into the proximal portion of the nail. Completely tighten the CONNECTING BOLT to secure the nail to the guide. The arrow on the barrel of the TARGETING GUIDE HANDLE will line up with the arrow and appropriate letter on nail (R for Right Femur, L for Left Femur) when the nail is correctly aligned. Ensure that the nail is tightened to the barrel of the guide and that the teeth on the barrel interdigitate with the notches in the nail (Figure 15).

Use a screw cannula, drill sleeve and drill bit to verify that the holes in the guide target the holes in the nail. If using descending interlocking or reconstruction screws, the appropriate TARGETING MODULE should be attached to verify that the drills line up with the holes in the nail. Thread the connecting knob into the module before attaching the module to the guide.



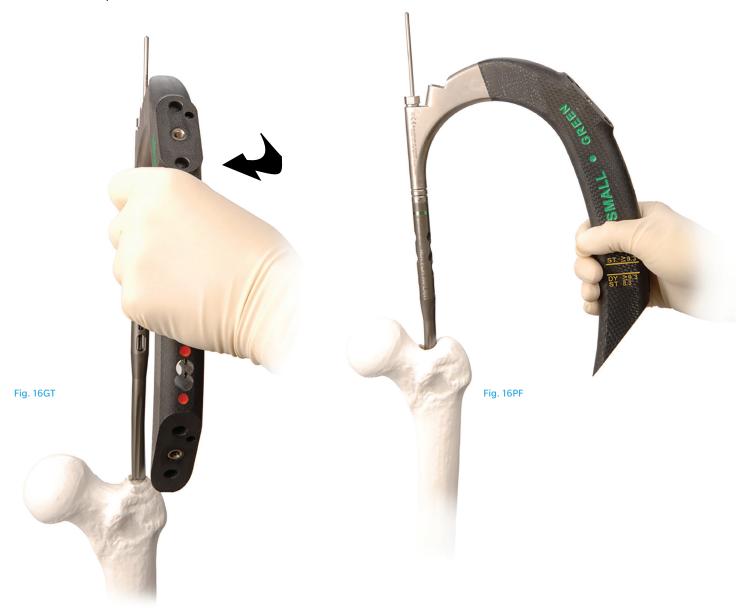
Note: Remove the TARGETING MODULE before inserting the nail.

Greater Trochanter Entry Point Nail Insertion

Insert the nail over the guide wire with the arm of the guide facing anterior to the patient (Figure 16GT). The guide will turn 90° as it passes down the femoral canal. The combination of the nail's anatomic shape as well as the flutes in the nail will

help the nail rotate as it passes down the canal. Monitor the progression of the nail using the C-arm, especially as the nail is passing through or near the fracture site.

Piriformis Fossa Entry Point Nail Insertion



CAUTION: Do not pry excessively on the targeting guide as damage may result.

Insert the nail over the guide wire with the arm of the guide facing lateral to the patient (Figure 16PF). Monitor the progression of the nail down the canal using the the progression of the nail down the canal using the C-arm, especially as the nail is passing through or near the fracture site.

If the nail does not pass down the canal easily, attach the IMPACTION HEAD to the TARGETING GUIDE HANDLE. Using the MALLET, impact gently on the IMPACTION HEAD (Figure 17). Do not strike the guide.

CAUTION: Do not strike excessively

Verify that the CONNECTING BOLT is tight while impacting. Do not impact on any other portion of the TARGETING GUIDE HANDLE or MODULE as this may break the guide or cause it to lose its accuracy.

If the nail will not advance with impaction, remove the nail and ream the canal to a larger diameter at additional 0.5 mm increments or consider using a smaller diameter nail. Place the top of the nail in line with or below the surface of the entry point, depending on its position relative to the expected screw location.





Remove the ball tip guide wire from the nail using the GUIDE WIRE GRIPPER (Figure 18). If possible, the guide wire should be removed before the nail is completely seated to reduce the potential for the wire to get caught in the nail. If the wire is difficult to remove, rotate the wire 90° with the GUIDE WIRE GRIPPER while pulling the wire.

Proximal Screw Placement

Proximal Screw Diameter:

6.0 mm for Reconstruction or Descending Interlocking Screws, 5.0 mm for Transverse Interlocking Screws

Proximal Screw Lengths:

6.0 mm – 50 to 140 mm in 5 mm increments

5.0 mm - 20 to 60 mm in 2.5 mm increments, 65 to 100 mm in 5 mm increments

Distal Screw Diameter:

5.0 mm for 9.3 to 15 mm nails, 4.0 mm for 8.3 mm nails (Greater Troch Nail Only)

Distal Screw Lengths:

20 to 60 mm in 2.5 mm increments, 65 to 100 mm in 5 mm increments

The reconstruction screw holes in the nail should be used with partially threaded 6.0 mm screws. The descending interlock holes should be used with fixed angle 6.0 mm screws although this will not create a fixed angle construct. The transverse interlocking holes use 5.0 mm screws. A fixed angle construct can be created by using 5.0 mm fixed angle screws in these holes. If a fixed angle construct is not desired*, partially threaded 5.0 mm screws should be used in the transverse interlocking holes.

The instruments needed to place screws through the proximal portion of the nail are color coded according to the chart.

INSTRUMENT TYPE	SMALL
Large Diameter Screw Cannula (recon/interlock screws)	Orange
Small Diameter Screw Cannula (transverse screws)	Orange
Trocar	Orange
4.3 mm Drill Sleeve (5.0 mm screws)	Orange / Red
4.3 mm Drill Bit (5.0 mm screws)	Orange / Red
4.9 mm Drill Sleeve 6.0 mm screws)	Orange / Black
4.9 mm Drill Bit (6.0 mm screws)	Orange / Black
3.0 mm Pin Sleeve	Orange
Depth Gauge	Orange
Screwdriver	Orange

Note: 4.0 screws contain the color/color name WHITE on the label and corresponding screw case. 5.0 mm screws contain the color/color name of RED on the label and corresponding screw case. 6.0 mm screws contain the color/color name of BLACK on the label and screw case. These colors match the color rings on the drills and other relevant instruments.

CAUTION: Retighten the CONNECTING BOLT to the nail to maintain targeting accuracy. If modules inadvertantly left on during impaction, retighten CONNECTINGS KNOBS to maintain targeting accuracy.

If using the descending interlocking or reconstruction screws, attach the appropriate TARGETING MODULE to the TARGETING GUIDE HANDLE. Select the screw holes that will be used in the nail. Insert HOLE INDICATORS in the holes in the TARGETING GUIDE HANDLE and TARGETING MODULE that WILL NOT be



Recon Module



Interlocking Module

Note: The proximal pattern on the 8.3 mm nail differs from the larger diameter nails. See page 19 for details.

The following proximal screw combinations are NOT possible because the screws may run into one another.



Distal Recon Screw and Distal Descending Oblique - 6.0 mm Screws



Proximal Recon Screw and Proximal Descending Oblique - 6.0 mm Screws



Distal Descending Oblique 6.0 mm and 5.0 mm Static Transverse Screw

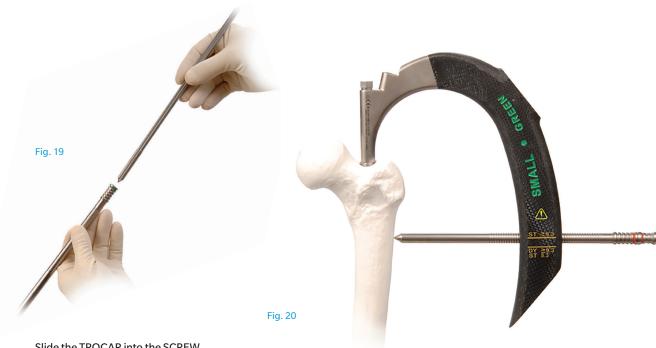


Distal 6.0 mm Recon Screw and 5.0 mm Static Transverse Screw



Static Transverse and Proximal Dynamization -5.0 mm Screws

^{*} Under certain conditions, especially in patients with thin cortical bone, Partially Threaded Screws from 20 mm to 32.5 mm in length may form a Fixed Angle construct with the nail.



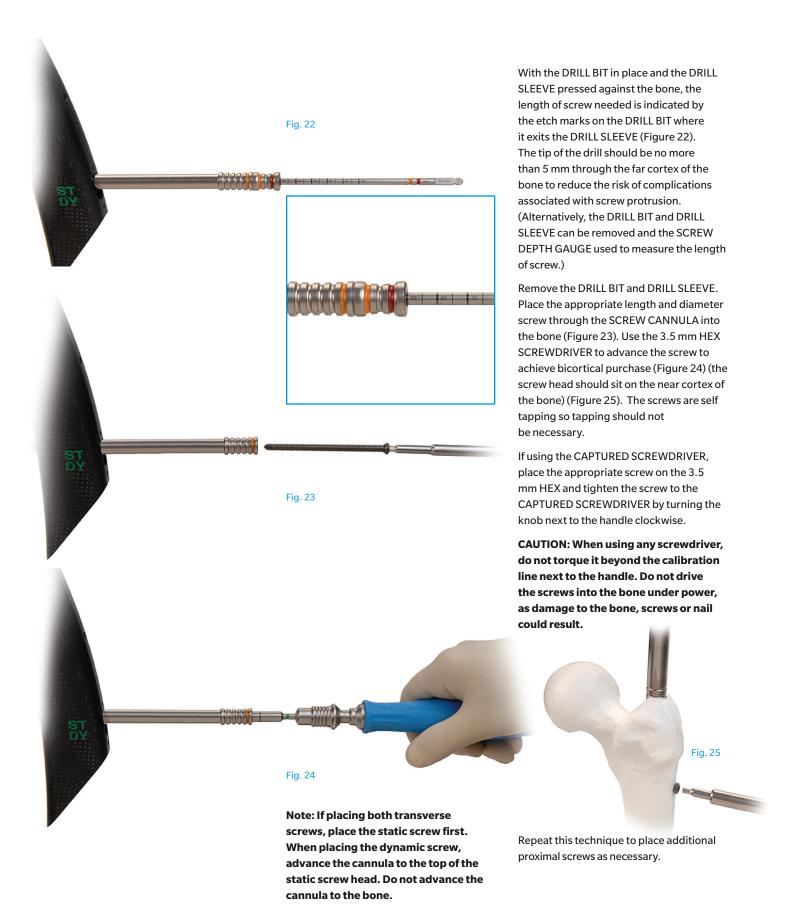
Slide the TROCAR into the SCREW CANNULA (Figure 19). Slide the SCREW CANNULA through one of the selected holes in the TARGETING GUIDE or MODULE. Incise the skin at the point the TROCAR touches it and dissect through the tissue down to the bone to make a path for the SCREW CANNULA. Advance the SCREW CANNULA until the tip of the TROCAR is against the bone (Figure 20).

CAUTION: Do not impact on the cannula.

Remove the TROCAR. Insert the appropriate sized DRILL SLEEVE through the CANNULA down to the bone. Place the appropriate sized DRILL BIT through the DRILL SLEEVE (Figure 21). Before the DRILL BIT contacts the bone, start the drill. Advance the spinning DRILL BIT through the bone bicortically. Use fluoroscopy to verify the appropriate location of the DRILL BIT in the bone. (Note: if reconstruction screws are used, do not advance the DRILL BIT through the second cortex of the bone. Only advance it as far as is necessary to obtain proper fixation.)

CAUTION: In cases where hard cortical bone is encountered or at the surgeon's preference, a 5.0 mm TAP can be used to ease insertion of the screws.

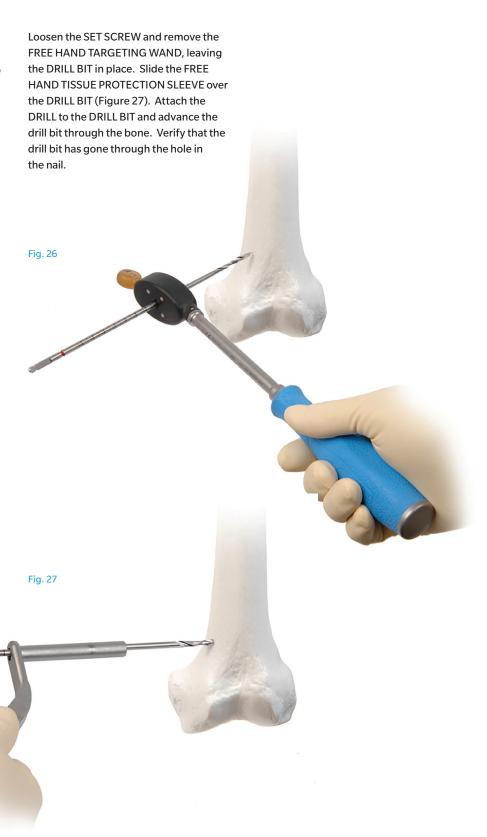




Distal Targeting – Freehand Technique

All nails 9.3 mm in diameter and larger use a 5.0 mm screw (4.3 mm drill bit) distally. The 8.3 mm Greater Trochanter Entry Point Nail uses a 4.0 mm screw (3.3 mm drill bit) distally. Use the 3.3 mm (color coded WHITE) drill bit and 4.0 mm (color coded WHITE) screws when using the 8.3 mm Greater Troch Nail in place of the 4.3 mm bit and 5.0 mm screws listed below.

Insert the 4.3 mm FREE HAND DRILL BIT (color coded RED) into the FREE HAND TARGETING WAND. Finger tighten the SET SCREW. Position the C-arm in order to get a lateral view of the distal femur. Adjust the position of the C-arm so that the hole through the nail appears as a perfect circle on the monitor. Bring the tip of the drill bit to the skin and use the C-arm to center it over the hole that you desire to place a screw through. Make a stab incision at this point and dissect down to the bone. Place the tip of the drill bit against the bone (Figure 26). Verify that the tip of the drill bit is in the center of the hole. Align the drill bit with the C-arm beam.

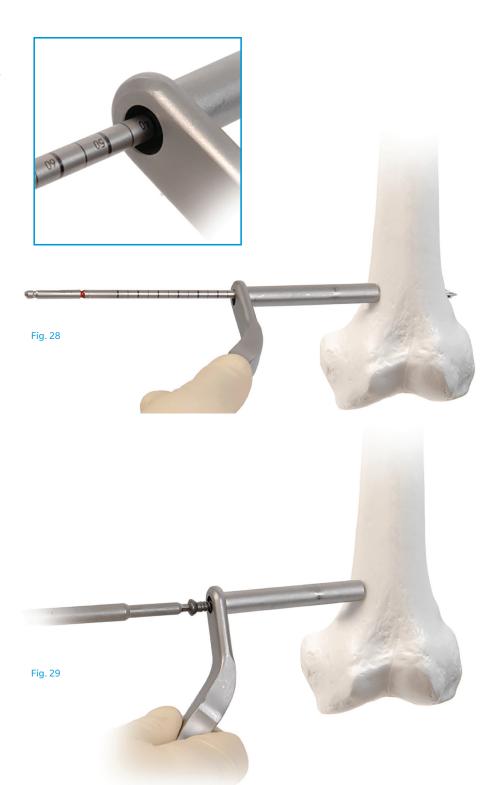


Remove the drill bit. Measure the depth of the hole using the FREE HAND SCREW DEPTH GAUGE (Figure 28). (Alternatively, the appropriate length of screw can be measured using the numbered etch on the DRILL BIT closest to the end of the FREE HAND TISSUE PROTECTION SLEE' when the DRILL BIT is in the bone and th SLEEVE is touching the bone.) Insert the appropriate length screw using the 3.5 mm HEX SCREWDRIVER (Figure 29).

If using the CAPTURED SCREWDRIVER, place the appropriate screw on the 3.5 mm HEX and tighten the screw to the CAPTURED SCREWDRIVER by turning tl knob next to the handle clockwise.

CAUTION: If using the CAPTURED SCREWDRIVER, do not torque the CAPTURED SCREWDRIVER beyond the calibration line next to the handle. Do not drive the screws into the bone under power, as damage to the bone, screws and nail could result.

Repeat these steps to insert additional distal screws.



Finalize Implant Placement

Observe the depth of the nail in the proximal femur. Ridges in the targeting guide barrel indicate 5 and 10 mm of depth. A 3.0 mm pin can be placed through the hole in the guide to approximate the position of the top of the nail.

Disconnect any TARGETING MODULES from the TARGETING GUIDE HANDLE and set aside. Place a 2.0 mm GUIDE PIN through the CONNECTING BOLT down to the level of the proximal screws. Loosen and remove the CONNECTING BOLT from the nail. Remove the TARGETING GUIDE HANDLE and set aside.

Choose the appropriate height cannulated NAIL CAP. Secure the selected NAIL CAP to the NAIL CAP INSERTER using the NAIL CAP RETAINING SHAFT. Slide the cannulated NAIL CAP over the 2.0 mm GUIDE PIN and tighten to the nail. Using the C-arm, verify that the cap is completely seated to the top of the nail.

Disengage the NAIL CAP INSERTER from the NAIL CAP. Remove the 2.0 mm GUIDE PIN.

Close all wounds and apply the appropriate dressings.

If a module was used, remove the connecting knob from the module before cleaning and sterilization.

Postoperative Care

Early range of motion exercises of the hip and knee are encouraged. Allow toe-touch weight bearing to progress to full weight bearing as fracture callus increases on the x-ray films.*

Nail Extraction

Use the C-arm to locate any distal screws. Remove the distal screws using a 3.5 mm HEX SCREWDRIVER. Remove the nail cap (if one was inserted) with a 5.0 mm HEX SCREWDRIVER. Expose the proximal screws and use a 3.5 mm HEX SCREWDRIVER to remove them. If bone has grown into any of the screws, nail cap or nail that would inhibit implant removal, use instruments such as rongeurs, dental picks or drills to remove bone in-growth before attempting implant removal. Take care not to damage the implant itself while removing ingrown bone.

To remove the nail, slide a 2.0 mm GUIDE PIN into the top of the nail. Insert the CANNULATED EXTRACTION ADAPTER over the wire into the top of the nail (Figure 30). Tighten the adapter to the nail using a PIN WRENCH. Attach a slapha mmer or other impaction device and impact to back out the nail (Figure 31).

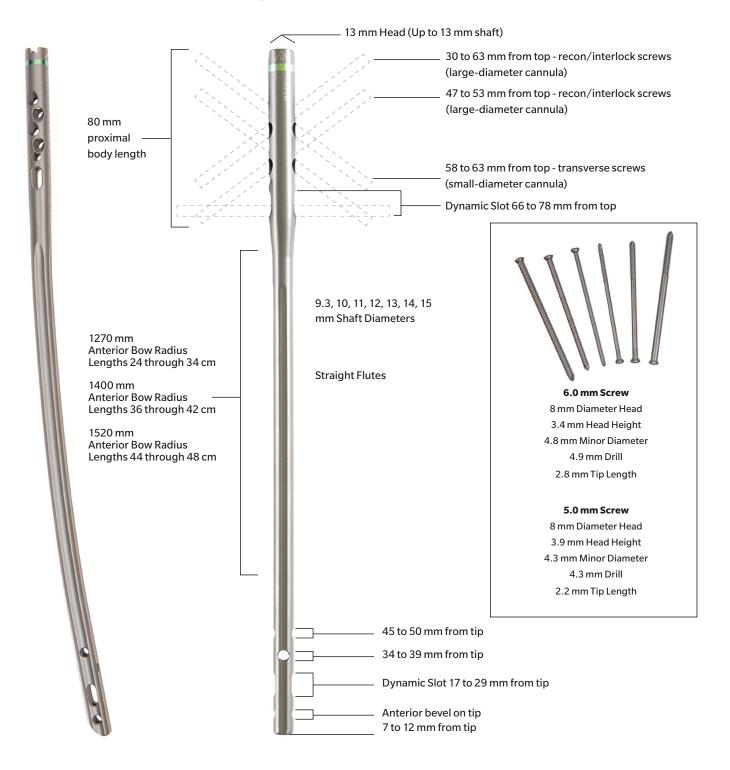
Greater Trochanter Entry Point Nail Note:

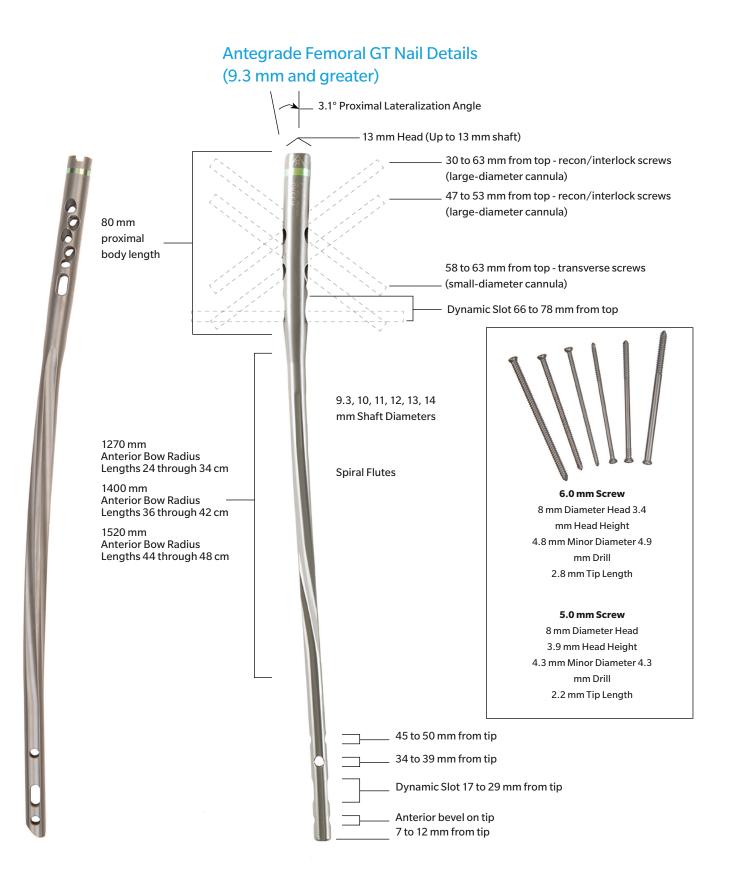
The nail will rotate approximately 90° as it is removed from the femur.



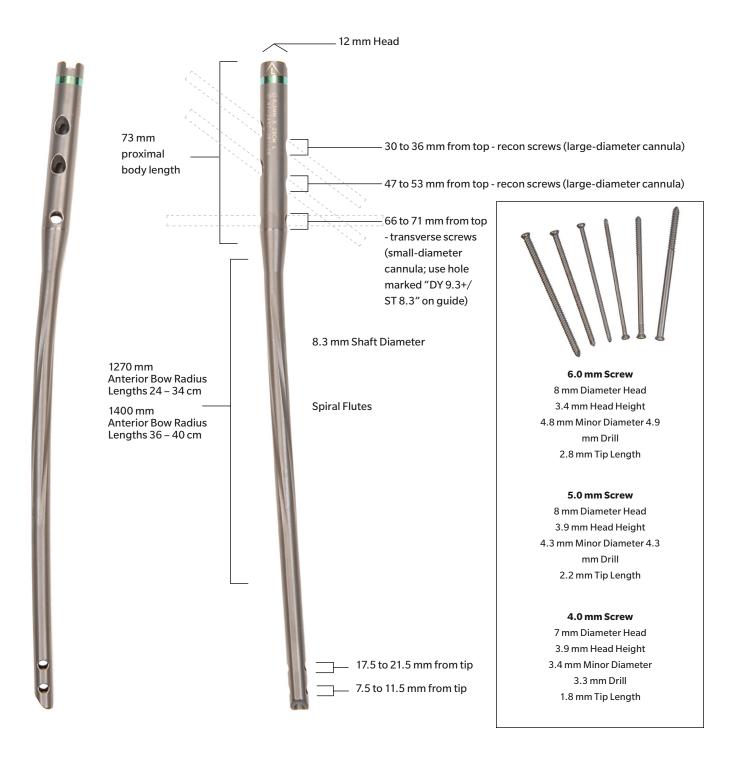
^{*} It is the responsibility of the surgeon to determine what is the most suitable postoperative care depending on each patient's health condition.

Antegrade Femoral PF Nail Details





Antegrade Femoral GT 8.3 mm Nail Details



Case Examples

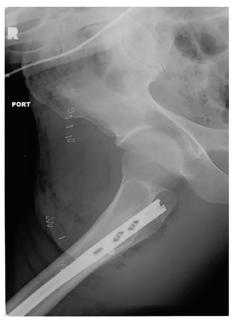






Pre-Op Post-Op









Post-Op

Product Information

Antegrade Femur, Greater Trochanter Nails

3			
Item Number 47-2492-260-08	Product Description Antegrade GREATER TROCHANTER Femoral	47-2492-380-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 38 cm Right Ti-6Al-4V
	Nail 8.3 mm X 26 cm Right Ti-6Al-4V	47-2492-400-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 40 cm Right Ti-6Al-4V
47-2492-280-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 28 cm Right Ti-6Al-4V	47-2492-420-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 42 cm Right Ti-6Al-4V
47-2492-300-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 30 cm Right Ti-6Al-4V	47-2492-440-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 44 cm Right Ti-6Al-4V
47-2492-320-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 32 cm Right Ti-6Al-4V	47-2492-460-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 46 cm Right Ti-6Al-4V
47-2492-340-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 34 cm Right Ti-6Al-4V	47-2492-260-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 26 cm Right Ti-6Al-4V
47-2492-360-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 36 cm Right Ti-6Al-4V	47-2492-280-11	Antegrade GREATER TROCHANTER Femoral
47-2492-380-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 38 cm Right Ti-6Al-4V	47-2492-300-11	Nail 11 mm X 28 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-400-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 40 cm Right Ti-6Al-4V	47-2492-320-11	Nail 11 mm X 30 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-260-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 26 cm Right Ti-6Al-4V	47-2492-340-11	Nail 11 mm X 32 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-280-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 28 cm Right Ti-6Al-4V	47-2492-360-11	Nail 11 mm X 34 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-300-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 30 cm Right Ti-6Al-4V	47-2492-380-11	Nail 11 mm X 36 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-320-09	Antegrade GREATER TROCHANTER Femoral		Nail 11 mm X 38 cm Right Ti-6Al-4V
47-2492-340-09	Nail 9.3 mm X 32 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral	47-2492-400-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 40 cm Right Ti-6Al-4V
47-2492-360-09	Nail 9.3 mm X 34 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral	47-2492-420-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 42 cm Right Ti-6Al-4V
47-2492-380-09	Nail 9.3 mm X 36 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral	47-2492-440-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 44 cm Right Ti-6Al-4V
47-2492-400-09	Nail 9.3 mm X 38 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral	47-2492-460-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 46 cm Right Ti-6Al-4V
	Nail 9.3 mm X 40 cm Right Ti-6Al-4V	47-2492-260-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 26 cm Right Ti-6Al-4V
47-2492-420-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 42 cm Right Ti-6Al-4V	47-2492-280-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 28 cm Right Ti-6Al-4V
47-2492-440-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 44 cm Right Ti-6Al-4V	47-2492-300-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 30 cm Right Ti-6Al-4V
47-2492-460-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 46 cm Right Ti-6Al-4V	47-2492-320-12	Antegrade GREATER TROCHANTER Femoral
47-2492-260-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 26 cm Right Ti-6Al-4V	47-2492-340-12	Nail 12 mm X 32 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-280-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 28 cm Right Ti-6Al-4V	47-2492-360-12	Nail 12 mm X 34 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-300-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 30 cm Right Ti-6Al-4V	47-2492-380-12	Nail 12 mm X 36 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-320-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 32 cm Right Ti-6AI-4V	47-2492-400-12	Nail 12 mm X 38 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-340-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 34 cm Right Ti-6Al-4V	47-2492-420-12	Nail 12 mm X 40 cm Right Ti-6Al-4V Antegrade GREATER TROCHANTER Femoral
47-2492-360-10	·	7/-L73Z-4ZU-1Z	Nail 12 mm X 42 cm Right Ti-6Al-4V
	Naii 10 IIIII A 30 CIII RIGAL II-0AI-4V		

47-2492-440-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 44 cm Right Ti-6Al-4V	47-2492-281-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 28 cm Left Ti-6Al-4V
47-2492-460-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 46 cm Right Ti-6Al-4V	47-2492-301-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 30 cm Left Ti-6Al-4V
47-2492-260-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 26 cm Right Ti-6Al-4V	47-2492-321-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 32 cm Left Ti-6Al-4V
47-2492-280-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 28 cm Right Ti-6Al-4V	47-2492-341-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 34 cm Left Ti-6Al-4V
47-2492-300-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 30 cm Right Ti-6Al-4V	47-2492-361-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 36 cm Left Ti-6Al-4V
47-2492-320-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 32 cm Right Ti-6Al-4V	47-2492-381-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 38 cm Left Ti-6Al-4V
47-2492-340-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 34 cm Right Ti-6AI-4V	47-2492-401-08	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 40 cm Left Ti-6Al-4V
47-2492-360-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 36 cm Right Ti-6Al-4V	47-2492-261-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 26 cm Left Ti-6Al-4V
47-2492-380-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 38 cm Right Ti-6Al-4V	47-2492-281-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 28 cm Left Ti-6Al-4V
47-2492-400-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 40 cm Right Ti-AL-4V	47-2492-301-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 30 cm Left Ti-6Al-4V
47-2492-420-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 42 cm Right Ti-6Al-4V	47-2492-321-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 32 cm Left Ti-6Al-4V
47-2492-440-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 44 cm Right Ti-6Al-4V	47-2492-341-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 34 cm Left Ti-6Al-4V
47-2492-460-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 46 cm Right Ti-6Al-4V	47-2492-361-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 36 cm Left Ti-6Al-4V
47-2492-480-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 48 cm Right Ti-6Al-4V	47-2492-381-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 38 cm Left Ti-6Al-4V
47-2492-260-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 26 cm Right Ti-6Al-4V	47-2492-401-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 40 cm Left Ti-6Al-4V
47-2492-280-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 28 cm Right Ti-6Al-4V	47-2492-421-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 42 cm Left Ti-6Al-4V
47-2492-300-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 30 cm Right Ti-6Al-4V	47-2492-441-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 44 cm Left Ti-6Al-4V
47-2492-320-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 32 cm Right Ti-6Al-4V	47-2492-461-09	Antegrade GREATER TROCHANTER Femoral Nail 9.3 mm X 46 cm Left Ti-6Al-4V
47-2492-340-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 34 cm Right Ti-6Al-4V	47-2492-261-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 26 cm Left Ti-6Al-4V
47-2492-360-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 36 cm Right Ti-6Al-4V	47-2492-281-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 28 cm Left Ti-6Al-4V
47-2492-380-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 38 cm Right Ti-6Al-4V	47-2492-301-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 30 cm Left Ti-6Al-4V
47-2492-400-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 40 cm Right Ti-6Al-4V	47-2492-321-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 32 cm Left Ti-6Al-4V
47-2492-420-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 42 cm Right Ti-6Al-4V	47-2492-341-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 34 cm Left Ti-6Al-4V
47-2492-440-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 44 cm Right Ti-6Al-4V	47-2492-361-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 36 cm Left Ti-6Al-4V
47-2492-460-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 46 cm Right Ti-6Al-4V	47-2492-381-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 38 cm Left Ti-6Al-4V
47-2492-261-08	Antegrade GREATER TROCHANTER Femoral Nail 8.3 mm X 26 cm Left Ti-6Al-4V	47-2492-401-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 40 cm Left Ti-6Al-4V

47-2492-421-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 42 cm Left Ti-6Al-4V	47-2492-281-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 28 cm Left Ti-6Al-4V
47-2492-441-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 44 cm Left Ti-6Al-4V	47-2492-301-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 30 cm Left Ti-6Al-4V
47-2492-461-10	Antegrade GREATER TROCHANTER Femoral Nail 10 mm X 46 cm Left Ti-6Al-4V	47-2492-321-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 32 cm Left Ti-6Al-4V
47-2492-261-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 26 cm Left Ti-6Al-4V	47-2492-341-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 34 cm Left Ti-6Al-4V
47-2492-281-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 28 cm Left Ti-6Al-4V	47-2492-361-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 36 cm Left Ti-6Al-4V
47-2492-301-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 30 cm Left Ti-6Al-4V	47-2492-381-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 38 cm Left Ti-6Al-4V
47-2492-321-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 32 cm Left Ti-6Al-4V	47-2492-401-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 40 cm Left Ti-6Al-4V
47-2492-341-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 34 cm Left Ti-6Al-4V	47-2492-421-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 42 cm Left Ti-6Al-4V
47-2492-361-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 36 cm Left Ti-6Al-4V	47-2492-441-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 44 cm Left Ti-6Al-4V
47-2492-381-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 38 cm Left Ti-6Al-4V	47-2492-461-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 46 cm Left Ti-6Al-4V
47-2492-401-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 40 cm Left Ti-6Al-4V	47-2492-261-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 26 cm Left Ti-6Al-4V
47-2492-421-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 42 cm Left Ti-6Al-4V	47-2492-281-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 28 cm Left Ti-6Al-4V
47-2492-441-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 44 cm Left Ti-6Al-4V	47-2492-301-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 30 cm Left Ti-6Al-4V
47-2492-461-11	Antegrade GREATER TROCHANTER Femoral Nail 11 mm X 46 cm Left Ti-6Al-4V	47-2492-321-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 32 cm Left Ti-6Al-4V
47-2492-261-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 26 cm Left Ti-6Al-4V	47-2492-341-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 34 cm Left Ti-6Al-4V
47-2492-281-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 28 cm Left Ti-6Al-4V	47-2492-361-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 36 cm Left Ti-6Al-4V
47-2492-301-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 30 cm Left Ti-6Al-4V	47-2492-381-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 38 cm Left Ti-6Al-4V
47-2492-321-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 32 cm Left Ti-6Al-4V	47-2492-401-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 40 cm Left Ti-6Al-4V
47-2492-341-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 34 cm Left Ti-6Al-4V	47-2492-421-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 42 cm Left Ti-6Al-4V
47-2492-361-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 36 cm Left Ti-6Al-4V	47-2492-441-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 44 cm Left Ti-6Al-4V
47-2492-381-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 38 cm Left Ti-6Al-4V	47-2492-461-14	Antegrade GREATER TROCHANTER Femoral Nail 14 mm X 46 cm Left Ti-6Al-4V
47-2492-401-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 40 cm Left Ti-6Al-4V		
47-2492-421-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 42 cm Left Ti-6Al-4V		
47-2492-441-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 44 cm Left Ti-6Al-4V		
47-2492-461-12	Antegrade GREATER TROCHANTER Femoral Nail 12 mm X 46 cm Left Ti-6Al-4V		
47-2492-261-13	Antegrade GREATER TROCHANTER Femoral Nail 13 mm X 26 cm Left Ti-6Al-4V		

Antegrade Femur, Piriformis Fossa Nails

Item Number Product Description

47-2491-300-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 30 cm Univ Ti-6Al-4V	47-2491-300-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 30 cm Univ Ti-6Al-4V
47-2491-320-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 32 cm Univ Ti-6Al-4V	47-2491-320-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 32 cm Univ Ti-6Al-4V
47-2491-340-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 34 cm Univ Ti-6Al-4V	47-2491-340-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 34 cm Univ Ti-6Al-4V
47-2491-360-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 36 cm Univ Ti-6AI-4V	47-2491-360-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 36 cm Univ Ti-6Al-4V
47-2491-380-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 38 cm Univ Ti-6Al-4V	47-2491-380-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 38 cm Univ Ti-6Al-4V
47-2491-400-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 40 cm Univ Ti-6Al-4V	47-2491-400-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 40 cm Univ Ti-6Al-4V
47-2491-420-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 42 cm Univ Ti-6AI-4V	47-2491-420-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 42 cm Univ Ti-6Al-4V
47-2491-440-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 44 cm Univ Ti-6Al-4V	47-2491-440-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 44 cm Univ Ti-6Al-4V
47-2491-460-09	Antegrade Femur Piriformis Fossa Nail 9.3 mm X 46 cm Univ Ti-6Al-4V	47-2491-460-12	Antegrade Femur Piriformis Fossa Nail 12 mm X 46 cm Univ Ti-6Al-4V
47-2491-300-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 30 cm Univ Ti-6Al-4V	47-2491-300-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 30 cm Univ Ti-6Al-4V
47-2491-320-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 32 cm Univ Ti-6Al-4V	47-2491-320-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 32 cm Univ Ti-6Al-4V
47-2491-340-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 34 cm Univ Ti-6Al-4V	47-2491-340-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 34 cm Univ Ti-6Al-4V
47-2491-360-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 36 cm Univ Ti-6Al-4V	47-2491-360-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 36 cm Univ Ti-6Al-4V
47-2491-380-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 38 cm Univ Ti-6Al-4V	47-2491-380-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 38 cm Univ Ti-6Al-4V
47-2491-400-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 40 cm Univ Ti-6Al-4V	47-2491-400-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 40 cm Univ Ti-6Al-4V
47-2491-420-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 42 cm Univ Ti-6Al-4V	47-2491-420-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 42 cm Univ Ti-6Al-4V
47-2491-440-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 44 cm Univ Ti-6Al-4V	47-2491-440-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 44 cm Univ Ti-6Al-4V
47-2491-460-10	Antegrade Femur Piriformis Fossa Nail 10 mm X 46 cm Univ Ti-6Al-4V	47-2491-460-13	Antegrade Femur Piriformis Fossa Nail 13 mm X 46 cm Univ Ti-6Al-4V
47-2491-300-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 30 cm Univ Ti-6Al-4V	47-2491-300-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 30 cm Univ Ti-6Al-4V
47-2491-320-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 32 cm Univ Ti-6Al-4V	47-2491-320-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 32 cm Univ Ti-6Al-4V
47-2491-340-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 34 cm Univ Ti-6Al-4V	47-2491-340-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 34 cm Univ Ti-6Al-4V
47-2491-360-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 36 cm Univ Ti-6Al-4V	47-2491-360-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 36 cm Univ Ti-6Al-4V
47-2491-380-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 38 cm Univ Ti-6Al-4V	47-2491-380-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 38 cm Univ Ti-6Al-4V
47-2491-400-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 40 cm Univ Ti-6Al-4V	47-2491-400-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 40 cm Univ Ti-6Al-4V
47-2491-420-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 42 cm Univ Ti-6Al-4V	47-2491-420-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 42 cm Univ Ti-6Al-4V
47-2491-440-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 44 cm Univ Ti-6Al-4V	47-2491-440-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 44 cm Univ Ti-6Al-4V
47-2491-460-11	Antegrade Femur Piriformis Fossa Nail 11 mm X 46 cm Univ Ti-6Al-4V	47-2491-460-14	Antegrade Femur Piriformis Fossa Nail 14 mm X 46 cm Univ Ti-6Al-4V

6.0 mm Partially Threaded Screws (for proximal recon holes)

6.0 mm Fixed Angle Screws (for descending interlocking holes)

Item Number	Product Description	Item Number Product Descrip	otion
47-2483-050-60	6.0 mm Cancellous Screw 50 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-050-60	6.0 mm Cancellous Screw 50 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-055-60	6.0 mm Cancellous Screw 55 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-055-60	6.0 mm Cancellous Screw 55 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-060-60	6.0 mm Cancellous Screw 60 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-060-60	6.0 mm Cancellous Screw 60 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-065-60	6.0 mm Cancellous Screw 65 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-065-60	6.0 mm Cancellous Screw 65 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-070-60	6.0 mm Cancellous Screw 70 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-070-60	6.0 mm Cancellous Screw 70 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-075-60	6.0 mm Cancellous Screw 75 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-075-60	6.0 mm Cancellous Screw 75 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-080-60	6.0 mm Cancellous Screw 80 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-080-60	6.0 mm Cancellous Screw 80 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-085-60	6.0 mm Cancellous Screw 85 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-085-60	6.0 mm Cancellous Screw 85 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-090-60	6.0 mm Cancellous Screw 90 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-090-60	6.0 mm Cancellous Screw 90 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-095-60	6.0 mm Cancellous Screw 95 mm Length Ti-6Al 4V Partially Threaded 3.5 mm Hex Head	47-2484-095-60	6.0 mm Cancellous Screw 95 mm Length Ti 6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-100-60	6.0 mm Cancellous Screw 100 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-100-60	6.0 mm Cancellous Screw 100 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-105-60	6.0 mm Cancellous Screw 105 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-105-60	6.0 mm Cancellous Screw 105 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-110-60	6.0 mm Cancellous Screw 110 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-110-60	6.0 mm Cancellous Screw 110 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-115-60	6.0 mm Cancellous Screw 115 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-115-60	6.0 mm Cancellous Screw 115 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-120-60	6.0 mm Cancellous Screw 120 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-120-60	6.0 mm Cancellous Screw 120 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-125-60	6.0 mm Cancellous Screw 125 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-125-60	6.0 mm Cancellous Screw 125 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-130-60	6.0 mm Cancellous Screw 130 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-130-60	6.0 mm Cancellous Screw 130 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-135-60	6.0 mm Cancellous Screw 135 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-135-60	6.0 mm Cancellous Screw 135 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head
47-2483-140-60	6.0 mm Cancellous Screw 140 mm Length Ti 6Al-4V Partially Threaded 3.5 mm Hex Head	47-2484-140-60	6.0 mm Cancellous Screw 140 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head

5.0 mm Partially Threaded Screws (for proximal transverse screw holes and distal screw holes in 9.3 mm and larger diameter nails)

Item Number Product Description 47-2483-020-50 5.0 mm Cortical Screw 20 mm Length Ti-6AI-4V Partially Threaded 3.5 mm Hex Head 47-2483-022-50 5.0 mm Cortical Screw 22.5 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head 47-2483-025-50 5.0 mm Cortical Screw 25 mm Length Ti-6AI-4V

Partially Threaded 3.5 mm Hex Head 47-2483-027-50 5.0 mm Cortical Screw 27.5 mm Length Ti-6AI-4V Partially Threaded 3.5 mm Hex Head

47-2483-030-50 $5.0\,mm$ Cortical Screw $30\,mm$ Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head 47-2483-032-50 5.0 mm Cortical Screw 32.5 mm Length Ti-6AI-4V Partially Threaded 3.5 mm Hex Head 47 2402 A2E EA

47-2483-035-50	Partially Threaded 3.5 mm Hex Head
47-2483-037-50	5.0 mm Cortical Screw 37.5 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-040-50	5.0 mm Cortical Screw 40 mm Length Ti-6Al-4V

47 2492 042 FO	F. O mana Courtisol Courses 42 F mana Langeth Ti CAL 41/
47-2483-042-50	5.0 mm Cortical Screw 42.5 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-045-50	5.0 mm Cortical Screw 45 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-047-50	5.0 mm Cortical Screw 47.5 mm Length Ti-6Al-4V

47-2483-050-50	5.0 mm Cortical Screw 50 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-052-50	5.0 mm Cortical Screw 52.5 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-055-50	5.0 mm Cortical Screw 55 mm Length Ti-6AL-4V

Partially Threaded 3.5 mm Hex Head

7 2 103 033 30	Partially Threaded 3.5 mm Hex Head
47-2483-057-50	5.0 mm Cortical Screw 57.5 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-060-50	5.0 mm Cortical Screw 60 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head

47-2483-065-50	5.0 mm Cortical Screw 65 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-070-50	5.0 mm Cortical Screw 70 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-075-50	5.0 mm Cortical Screw 75 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head

47-2483-100-50

47-2483-080-50	5.0 mm Cortical Screw 80 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-085-50	5.0 mm Cortical Screw 85 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-090-50	5.0 mm Cortical Screw 90 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head
47-2483-095-50	5.0 mm Cortical Screw 95 mm Length Ti-6AI-4V

Partially Threaded 3.5 mm Hex Head 5.0 mm Cortical Screw 100 mm Length Ti-6Al-4V Partially Threaded 3.5 mm Hex Head

5.0 mm Fixed Angle Screws (for proximal transverse screw holes and distal screw holes in 9.3 mm and larger diameter nails)

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Item Number Product Descri	Item Number Product Description		
47-2484-020-50	5.0 mm Cortical Screw 20 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-022-50	5.0 mm Cortical Screw 22.5 mm Length Ti-6AI 4V Fixed Angle 3.5 mm Hex Head		
47-2484-025-50	5.0 mm Cortical Screw 25 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-027-50	5.0 mm Cortical Screw 27.5 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head		
47-2484-030-50	5.0 mm Cortical Screw 30 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-032-50	5.0 mm Cortical Screw 32.5 mm Length Ti-6AI 4V Fixed Angle 3.5 mm Hex Head		
47-2484-035-50	5.0 mm Cortical Screw 35 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-037-50	5.0 mm Cortical Screw 37.5 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head		
47-2484-040-50	5.0 mm Cortical Screw 40 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-042-50	5.0 mm Cortical Screw 42.5 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head		
47-2484-045-50	5.0 mm Cortical Screw 45 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-047-50	5.0 mm Cortical Screw 47.5 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head		
47-2484-050-50	5.0 mm Cortical Screw 50 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-052-50	5.0 mm Cortical Screw 52.5 mm Length Ti-6AI 4V Fixed Angle 3.5 mm Hex Head		
47-2484-055-50	5.0 mm Cortical Screw 55 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-057-50	5.0 mm Cortical Screw 57.5 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head		
47-2484-060-50	5.0 mm Cortical Screw 60 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-065-50	5.0 mm Cortical Screw 65 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-070-50	5.0 mm Cortical Screw 70 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-075-50	5.0 mm Cortical Screw 75 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-080-50	5.0 mm Cortical Screw 80 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-085-50	5.0 mm Cortical Screw 85 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-090-50	5.0 mm Cortical Screw 90 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-095-50	5.0 mm Cortical Screw 95 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		
47-2484-100-50	5.0 mm Cortical Screw 100 mm Length Ti-6Al-4V Fixed Angle 3.5 mm Hex Head		

Partially Threaded 3.5 mm Hex Head

4.0 mm Partially Threaded Screws

(for distal screw holes in 8.3 mm Greater Trochanter Entry Point nails only)

Product Description Product Description Item Number Item Number 47-2483-020-40 4.0 mm Cortical Screw 20 mm Length Ti-6Al-4V 47-2484-020-40 4.0 mm Cortical Screw 20 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-022-40 4.0 mm Cortical Screw 22.5 mm Length Ti-6Al 47-2484-022-40 4.0 mm Cortical Screw 22.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 4.0 mm Cortical Screw 25 mm Length Ti-6AI-4V 4.0 mm Cortical Screw 25 mm Length Ti-6Al 47-2483-025-40 47-2484-025-40 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-027-40 4.0 mm Cortical Screw 27.5 mm Length Ti-6Al 47-2484-027-40 4.0 mm Cortical Screw 27.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-030-40 4.0 mm Cortical Screw 30 mm Length Ti-6AI-4V 47-2484-030-40 4.0 mm Cortical Screw 30 mm Length Ti-6Al Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 47-2483-032-40 4.0 mm Cortical Screw 32.5 mm Length Ti-6Al 47-2484-032-40 4.0 mm Cortical Screw 32.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-035-40 4.0 mm Cortical Screw 35 mm Length Ti-6Al-4V 47-2484-035-40 4.0 mm Cortical Screw 35 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-037-40 4.0 mm Cortical Screw 37.5 mm Length Ti-6Al 47-2484-037-40 4.0 mm Cortical Screw 37.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-040-40 4.0 mm Cortical Screw 40 mm Length Ti-6AI-4V 47-2484-040-40 4.0 mm Cortical Screw 40 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 4.0 mm Cortical Screw 42.5 mm Length Ti 47-2483-042-40 4.0 mm Cortical Screw 42.5 mm Length Ti-6Al 47-2484-042-40 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-045-40 4.0 mm Cortical Screw 45 mm Length Ti-6AI-4V 47-2484-045-40 4.0 mm Cortical Screw 45 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-047-40 4.0 mm Cortical Screw 47.5 mm Length Ti-6Al 4.0 mm Cortical Screw 47.5 mm Length Ti 47-2484-047-40 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-050-40 4.0 mm Cortical Screw 50 mm Length Ti-6Al-4V 47-2484-050-40 4.0 mm Cortical Screw 50 mm Length Ti-6Al Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 47-2483-052-40 4.0 mm Cortical Screw 52.5 mm Length Ti-6Al 47-2484-052-40 4.0 mm Cortical Screw 52.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 47-2483-055-40 4.0 mm Cortical Screw 55 mm Length Ti-6AI-4V 47-2484-055-40 4.0 mm Cortical Screw 55 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-057-40 4.0 mm Cortical Screw 57.5 mm Length Ti-6Al 47-2484-057-40 4.0 mm Cortical Screw 57.5 mm Length Ti 4V Partially Threaded 3.5 mm Hex Head 6AI-4V Fixed Angle 3.5 mm Hex Head 4.0 mm Cortical Screw 60 mm Length Ti-6AI-4V 4.0 mm Cortical Screw 60 mm Length Ti-6Al 47-2483-060-40 47-2484-060-40 Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 4.0 mm Cortical Screw 65 mm Length Ti-6Al 47-2483-065-40 4.0 mm Cortical Screw 65 mm Length Ti-6Al-4V 47-2484-065-40 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-070-40 4.0 mm Cortical Screw 70 mm Length Ti-6Al-4V 47-2484-070-40 4.0 mm Cortical Screw 70 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 4.0 mm Cortical Screw 75 mm Length Ti-6Al-4V 47-2483-075-40 47-2484-075-40 4.0 mm Cortical Screw 75 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 4.0 mm Cortical Screw 80 mm Length Ti-6AI-4V 4.0 mm Cortical Screw 80 mm Length Ti-6Al 47-2483-080-40 47-2484-080-40 Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 47-2483-085-40 4.0 mm Cortical Screw 85 mm Length Ti-6AI-4V 47-2484-085-40 4.0 mm Cortical Screw 85 mm Length Ti-6Al Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 47-2483-090-40 4.0 mm Cortical Screw 90 mm Length Ti-6AI-4V 47-2484-090-40 4.0 mm Cortical Screw 90 mm Length Ti-6Al Partially Threaded 3.5 mm Hex Head 4V Fixed Angle 3.5 mm Hex Head 47-2483-095-40 4.0 mm Cortical Screw 95 mm Length Ti-6AI-4V 47-2484-095-40 4.0 mm Cortical Screw 95 mm Length Ti-6Al 4V Fixed Angle 3.5 mm Hex Head Partially Threaded 3.5 mm Hex Head 47-2483-100-40 4.0 mm Cortical Screw 100 mm Length Ti-6AI-4V 47-2484-100-40 4.0 mm Cortical Screw 100 mm Length Ti-6Al

4.0 mm Fixed Angled Screws

(for distal screw holes in 8.3 mm Greater Trochanter Entry Point nails only)

4V Fixed Angle 3.5 mm Hex Head

Nail Caps

Item Number	Product Description
47-2487-001-00	Femoral Nail Cap 0 mm Height Ti-6Al-4V
47-2487-001-05	Femoral Nail Cap 5 mm Height Ti-6AI-4V
47-2487-001-10	Femoral Nail Cap 10 mm Height Ti-6Al-4V
47-2487-001-15	Femoral Nail Cap 15 mm Height Ti-6Al-4V

Instruments

KT-2490-001-02 Small Antegrade Femoral Instrument Set

Item Number	Product Description	
00-2490-046-30	3.0 mm Threaded Pin	3
00-2490-008-01	Small Antegrade Femoral Connecting Bolt	2
00-2490-031-05	11 mm Hex / Pin Wrench	2
00-2490-046-20	2.0 mm Pin	2
00-2490-061-80	Short Screw Cannula 10.0 mm OD 8.0 mm ID	1
00-2490-081-80	Short Screw Cannula 12.5 mm OD 8.0 mm ID	1
00-2490-082-80	Short Screw Trocar 8.0 mm	2
00-2490-063-30	Short Guide Pin Sleeve 3.0 mm	2
00-2490-000-15	Connecting Knob Radel Bushing	1
00-2490-000-30	Nail Diameter Gauge	1
00-2490-000-33	Ruler	1
00-2490-000-34	Nail Length Gauge	1
00-2490-098-10	Small Antegrade Femur Targeting Guide Handle	1
00-2490-091-15	Small Antegrade Femur Interlock Module Solid	1
00-2490-091-16	Small Antegrade Femur Recon Screw Module Solid	1
00-2490-010-01	Short Cannulated Awl	1
00-2490-012-00	Guide Wire Gripper	1
00-2490-013-00	Entry Cannula	1
00-2490-013-01	Entry Cannula Starting Point Locator	1
00-2490-014-01	Inner Channel Reamer	1
00-2490-014-02	Channel Reamer Sleeve 14.5 mm	1
00-2490-014-14	Taper Reamer 14.5 mm	1
00-2490-014-80	Entry Reamer 8.0 mm	1
00-2490-017-00	Guide Wire Pusher	1
00-2490-031-00	Connecting Bolt Inserter	1
00-2490-032-00	Impaction Head	1
00-2490-032-01	Slotted Mallet	1
00-2490-035-75	Freehand Mod 3.5 mm Hex Screwdriver	2
00-2490-046-32	Guide Pin Inserter/Extractor	1
00-2490-047-80	Long Cannulated Depth Gauge	1
00-2490-050-02	Modular T-Handle	1
00-2490-065-80	Short Screw Depth Gauge 8.0 mm	1
00-2490-070-00	Freehand Targeting Wand	1
00-2490-073-00	Freehand Targeting Depth Gauge	1
00-2490-074-00	Freehand Tissue Protection Sleeve	1
00-2490-080-00	Nail Cap Inserter	1
02.00020.049	Ratchet Wrench 11	1

00-2490-035-60	Short Modular 3.5 mm Hex Screwdriver	2
00-2490-035-62	Captured Screwdriver 3.5 Hex - Short	1
00-2490-035-72	Captured Screwdriver 3.5 Hex - Freehand	1
00-2490-080-03	Nail Cap Retaining Shaft	1
00-2490-033-00	Slap Ha mmer Adapter	1
00-2490-090-00	Cann Extract Adapter 5/16"	1
00-2490-000-41	Hole Indicator	2
00-2490-050-00	Modular T-Handle AO	1
00-2490-063-43	Short Drill Sleeve 4.3 mm	2
00-2490-063-49	Short Drill Sleeve 4.9 mm	2
00-2490-064-43	Calibrated Drill 4.3 mm Short	2
00-2490-064-49	Short Calibrated Drill 4.9 mm	2
00-2490-064-50	Short Calibrated Cannulated 4.9 mm Drill	1
00-2490-075-33	3.3 mm Freehand Drill 152.5 mm	2
00-2490-075-43	4.3 mm Freehand Drill 152.5 mm	2
00-2490-012-30	3.0 mm Threaded Pin by 305 mm	3
00-2490-024-00	Reduction Finger	1
00-2490-000-14	Connecting Knob	3
00-5900-099-00	Standard Lids	2

Instrument Cases

(Select both "Stainless Steel" or both "Stainless Steel and Aluminum" Cases)

Item Number		Product Description
	00-2490-082-00	Antegrade Femur Case 1 of 2 – Stainless Steel
	00-2490-085-00	Antegrade Femur Case 2 of 2 – Stainless Steel
	00-2490-082-50	Antegrade Femur Case 1 of 2 – Stainless Steel and Aluminum (Blue)
	00-2490-085-50	Antegrade Femur Case 2 of 2 – Stainless Steel and Aluminum (Blue)

Optional Instruments

Item Number	Product Description
00-2490-060-50	Short 5.0 mm Tap

Ball Tip Guide Wire (available separately)

Item Number	Product Description
00-2255-008-01	3.0 mm x 100 cm Ball Tip Guide Wire (Non-Sterile)
47-2255-008-01	3.0 mm x 100 cm Ball Tip Guide Wire (Sterile)

Tear Drop Guide Wire (available separately)

Item Number	Product Description
47-2490-097-00	3.0 mm x 100 cm Tear Drop Guide Wire (Sterile)
47-2490-097-01	2.4 mm x 100 cm Tear Drop Guide Wire (Sterile)

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