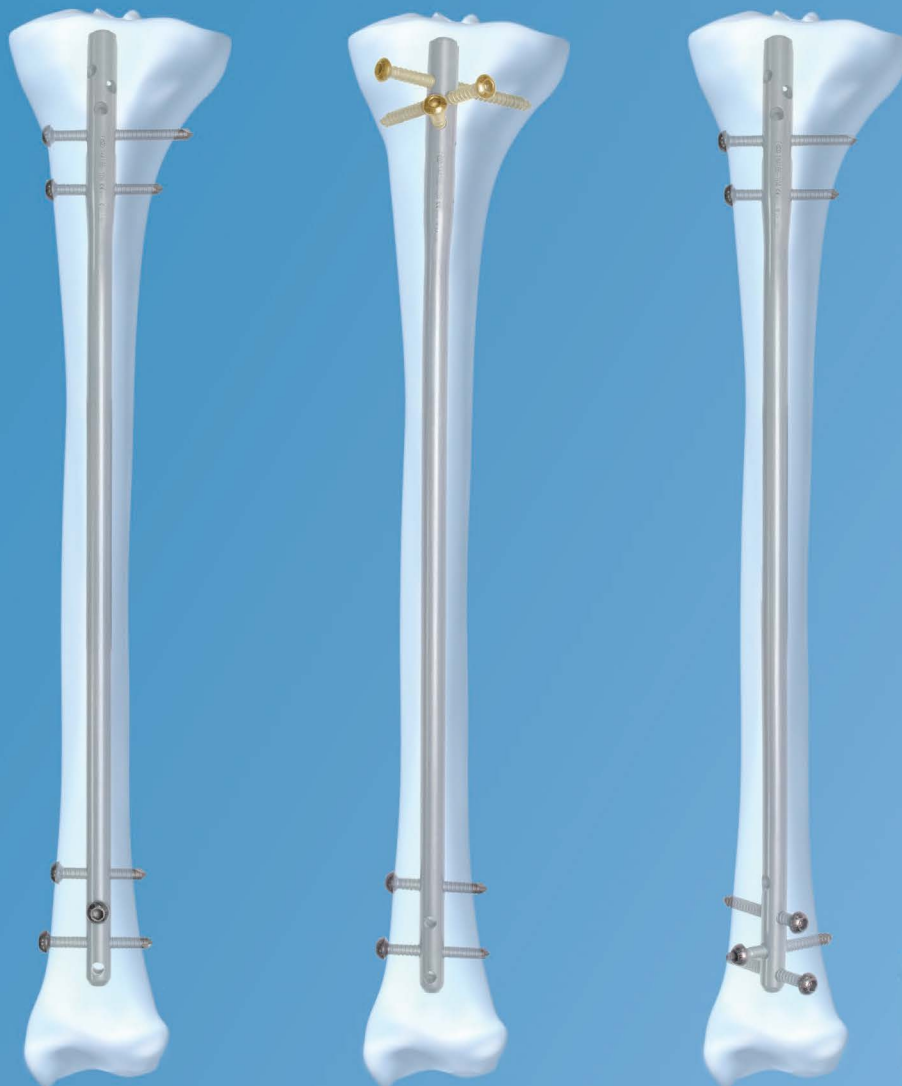


# DXT Professional Tibial Nail System

## Surgical Technique





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## Preface

### Nails

#### Proximally:

3 different locking options with using of cortical and cancellous locking screws offer a superior stability at the proximal and distal tibia side.

#### Distally:

The locations of distal screw holes have been moved closer to the distal end of the nail which allows surgeons to cure further lower position of distal tibia fractures. Driving end of the nail offers a multiplanar locking configuration which has been clinically proven to increase the stability of the nail construct.

### Screw Holes

Proximal side of the nail offers the choice of 3 cancellous locking screw holes and 2 cortical locking screw holes (1 with elongated compression slot). Distal end of the nail offers a choice of 2 anterior/posterior and 2 medial/lateral locking screw holes. For a multiplanar locking configuration. The design allows for more options in fracture management and better stability in some fracture patterns. Cannulation of the nail allows the implant to be inserted over a Ball Tip Guide Wire and aids in removal. Diameter choices standard sizes are 8mm, 9mm, 10 mm, and 11mm diameters.

### Screws

Made of Titanium 6AL4V - An alloy that offers strength and improved biocompatibility. Fluted Self - tapping Tip designed to make screws easier to capture bone, and minimize the need for surgical steps. Enlarged threads at the head of screws allows for solid bone purchase at the near cortex and minimize screw back out.

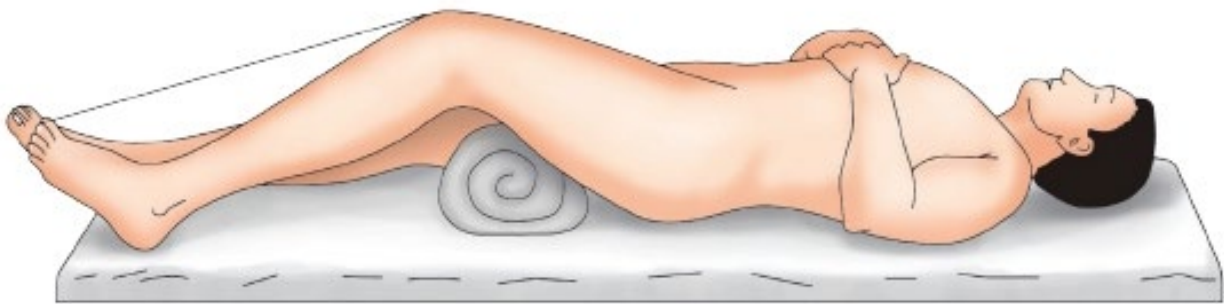
### Indications

The DXT Professional Tibial Nail System is indicated for shaft fractures between proximal and distal third of the tibia. Indications include transverse, comminuted, spiral, oblique, and segmental fractures. The Professional Tibial Nails may also be used for treatment of non unions or malunions as well as prophylactic nailings of impending pathological fractures.

## Surgical Technique

### Patient Preparation

Position the patient supine. Place a sterile bolster (leg roll) under the thigh and flex for positioning. Check the axial alignment by stretching a "bovie" cord through the middle of patella to the second toe. The cord should bisect the middle of tibial plateau and talar dome in the A/P view when the leg is straight. Adjust the leg for rotation and length by comparison with the uninjured leg and by visualizing the fracture configuration. Insertion alignment can be slightly proximal to the fibular neck, but below the articular surface of to avoid joint damage. A slightly lateralized entry portal is optimal.



### Entry Portal

Make a 3 cm incision medial to the patellar tendon. Attach the **Tip Threaded Guide Pin (015002)** to power. Insert the Guide Pin when the axial alignment is acceptable and centered along the tibia.



The target zone should be just lateral to the medial tibia tubercle. The Tip Threaded Guide Pin may be backed out as needed to confirm that the pilot hole is started correctly. Insert the pin approximately 3 cm in depth. Once proper placement of the Tip Threaded Guide Pin has been established, then attach the Assembly of **Entry Drill Sleeve (015003) & Entry Reamer (015006)** to insert over the Tip Threaded Guide Pin and ream the proximal portion of tibia.



The Entry Reamer should be inserted such that it is reaming the anterior cortex and not directed toward the posterior cortex. The Entry Drill Sleeve functions as a soft tissue protector. The Entry Reamer should be advanced to the medullary canal of the tibia, approximately 4-5 cm. Confirm the position of Entry Reamer under lateral X-ray views as well. Remove the Entry Reamer and Tip Threaded Guide Pin. In addition, **Curved Awl, Cannulated (015005) & Straight Awl, Cannulated (015004)** also can be used for initial opening of the tibia tuberosity tip.



## Fracture Reduction

Remove Entry Reamer, insert the **Reducer (015008)** through Entry Drill Sleeve and advance it into the distal medullary canal to reduce fracture. Then introduce **Ball Tip Guide Wire (015009)** into the medullary canal through Reducer and Entry Drill Sleeve.



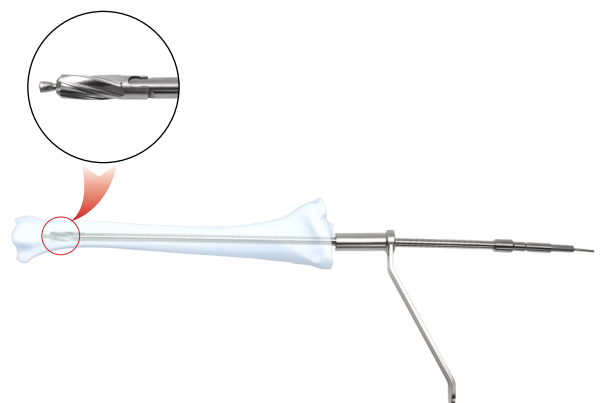
The Ball Tip Guide Wire can be positioned by rotating Reducer while placing this wire into the medullary canal. After Ball Tip Guide Wire is in place, remove Reducer from the medullary canal.

### Note:

Reducer may be too large to use if the patient has a small diameter medullary canal. If this is the case, reduce the fracture manually.

## Canal Preparation

Canal preparation is dependent on surgical decision. If reaming is planned, use progressive reamers through the Entry Drill Sleeve. Unreamed nails are selected based on preoperative planning, but should offer sufficient size to provide translational fill of the medullary canal in mid-diaphysis. If reaming is selected, proceed to sequentially ream tibial shaft beginning with the 7.5 mm reamer head. Sequentially ream in half millimeter increments to 0.5 mm to 1.0 mm larger than the selected nail size .



## Nail Selection

Determine nail diameter and length from image intensifier with **Radiographical Ruler (015001)**. Never insert a nail that has a larger diameter than the last reamer used.

### Note:

Make provisions for countersinking the tibial nail to minimize impingement problems at the knee. Allow for reduction of the fracture.

## Drill Guide Assembly

Remove Entry Drill Sleeve, Insert **Guide Bolt (015022)** into the **Insertion Handle (015021)**. Use **Guide Bolt Wrench, Ball Tip (015057)** to secure the bolt to nail, and then screw Guide Bolt onto the top of Insertion Handle with the proximal side of the nail. This assembly is used to drive the nail into medullary canal. If necessary, mount **Connecting Shaft and Block (015025 & 015024)**, onto the Insertion Handle, connect **Hammer Gliding Shaft (015027)** to the end of Connecting Shaft then use **Sliding Hammer (015029)** to further advance nail insertion.

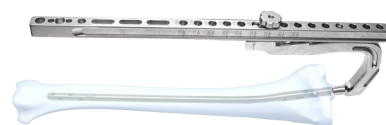


### Note:

**Spanner (015026)** can be applied to further tighten Connecting Shaft and Block on the Insertion Handle. Advance the nail over Ball Tip Guide Wire and carefully pass the fracture. Countersink the nail approximately 2-5mm into tibia proximally. Confirm the rotation as is appropriate, and then remove the Guide Wire.

The Distal target technique is used. First, rotation is confirmed with the tibia to be satisfactory. Next, image intensifier is used to obtain perfect circles radiographically on the medial view or the anterior view. There are 4 screw holes at the distal side, 2 screw holes on the A/P position, and 2 screw holes on the M/L position.

After the tibial nail has been inserted properly, attached **Aiming Bar (015030)** on the Insertion Handle by **Proximal Bolt (015031)**. Required nail length can be determined by the 2 arrows aligned between Insertion Handle and Aiming Bar. Further tightening of the Bolt can be done by use **Bolt Wrench, SW5.0 (015032)**.



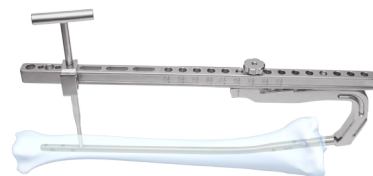
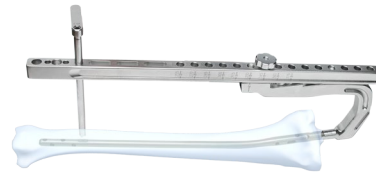
## Distal Locking

Insert **Trocar (015041)** through distal hole (away from distal tibia) on the **Aiming Bar** down to the skin anteriorly, and by palpation is centered over the middle of tibia. The point of contact with skin is noted. An incision is made at this point, down to the deep fascia. Muscle is then split longitudinally down to the bone.

Remove Trocar and replace it by **Drill Sleeve, Ø5.2mm (015033)**. Start drilling by using **Drill Bit, Ø5.2mm (015034)**. Replace **Drill Bit, Ø5.2mm** by **Position Rod Drill (015035)** to clear the small bone chips.

Remove this Position Rod Drill, and then **Positioning Rod (015036)** is inserted through the same distal hole on Aiming Bar. The hole at the anterior femoral cortex down to the nail, contact being confirmed by tapping its tip onto the distal platform of nail.

The **Positioning Rod Block (015037)** is now attached and fits into the groove on Positioning Rod shaft. The Positioning Rod is now properly held so that its tip is in contact with the nail platform. The surgeon maintains this contact till the distal locking entirely completed. Assemble **Distal Aiming Device (015038)** at the distal end of Aiming Bar, tighten the Bolt by Bolt Wrench, SW5.0.



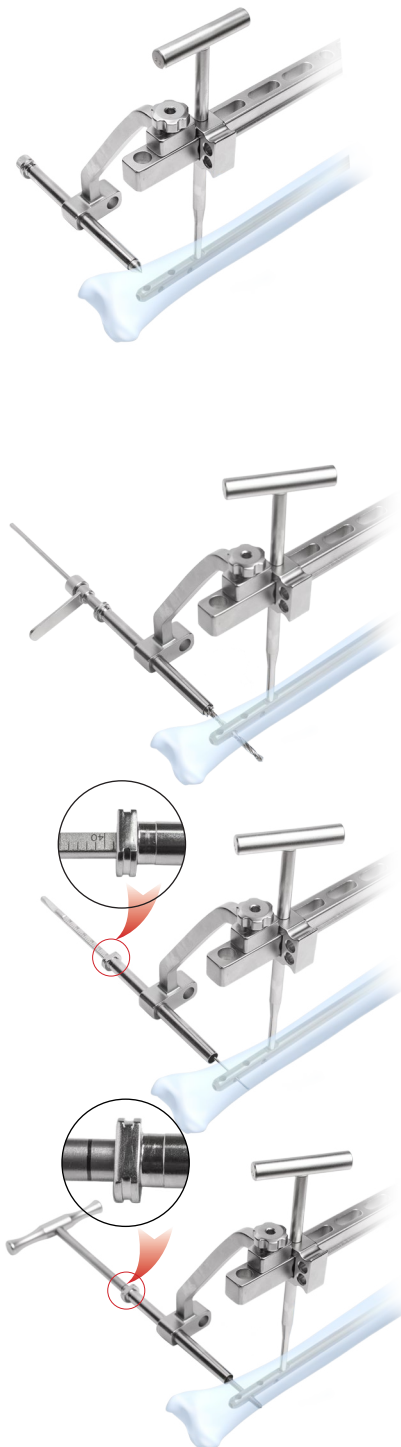
### Note:

If contact with nail platform is not achieved even after attach the **Positioning Rod Block** properly, and then the surgeon has to push the Positioning Rod tip down until it touches the platform for M/L screw insertion. Otherwise, there probably a risk of M/L screw will lose its position for distal locking. If the Positioning Rod handle is pushed too hard, it is sometimes possibly driven the tip of Positioning Rod bypass the nail. This must be avoided, since it will result in the drill bit passing posterior to the nail. Gentle contact is Required.

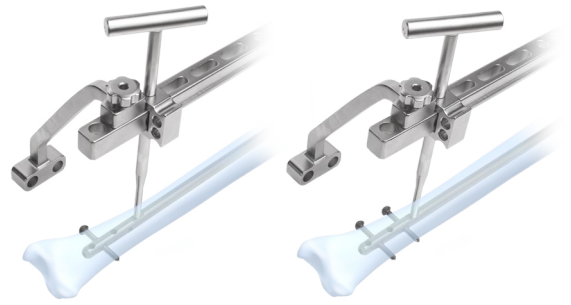
### Distal M/L Cortical Locking Screw Insertion

Insert the Assembly of **Outer Drill Sleeve (015040)** and **Trocar (015041)** through distal hole on the Distal Aiming Device, the hole on Distal Aiming Device which is closest to the distal end of tibial nail now is chosen to be drilled as the first media-lateral locking screw hole. A single 1-3cm incision is made over the points of contact with skin, down through the deep fascia. The incision is deepened by blunt dissection, splitting the muscle down to the bone.

The Outer Drill Sleeve is now further inserted down to the bone with the aid of Trocar. Remove Trocar, insert the **Drill Sleeve, Ø4.0mm (014042)**, and use **Drill Bit, Ø4.0mm (015043)** with **Ø4.0 Stopper (015044)** for drilling preparation. Use Stopper to control drilling of the far cortex, then remove Drill Sleeve, Ø4.0mm, measure the screw length by **Screw Length Gauge (015046)**. The hooked end is inserted down to the Outer Drill Sleeve and through the bone. It is then drawn back so that the hook engages the outer surface of distal cortex. The correct length of screw can be read at the top of Outer Drill Sleeve, Long. This Screw Length Gauge is only suitable for using with **DXT Professional Tibial Nails**, since its accuracy depends on a fixed length of the Outer Drill Sleeve, Long. Attached the screw by **Screwdriver for Locking Screw (015047)**. Place the 1<sup>st</sup> screw through **Outer Drill Sleeve (015040)**, so that the screw passes through nail, and engages the far cortex. There is also a line laser marked on the Screwdriver for Locking Screw,



to indicate when screw is been purchased on bone firmly. Use X-Ray to check whether or not the locking screw is inserted properly and passed throw the distal end hole of nail. Use the same technique to place the 2<sup>nd</sup> media-lateral screw.



### Note:

If no X-Ray available, simply introduce the **Ball Tip Guide Wire (015009)** Wire through nail cannulation to the very distal end, if a metal contact sound can be heard between the Ball tip of Guide Wire and the locking screw, this indicates distal locking is now successful.

### Distal A/P Cortical Locking Screw Insertion

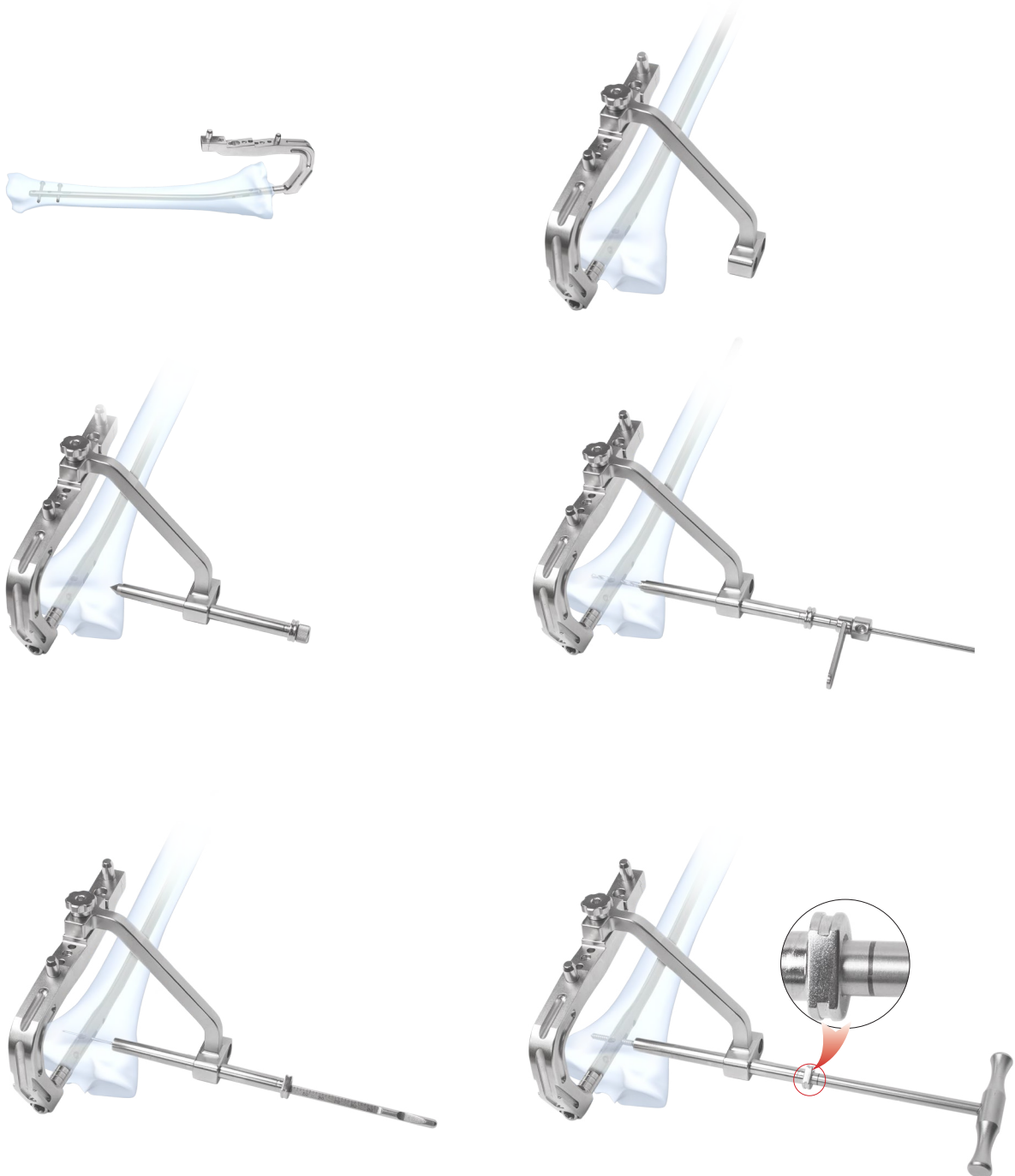
If necessary, Anterior/Posterior locking screws are also able to be introduced according to fracture type. Remove **Distal Aiming Device (015038)**, apply the same screw insertion technique of introducing 1<sup>st</sup> distal M/L locking screw, to introduce the 1<sup>st</sup> distal A/L locking screw, then the 2<sup>nd</sup> one.



## Proximal Locking

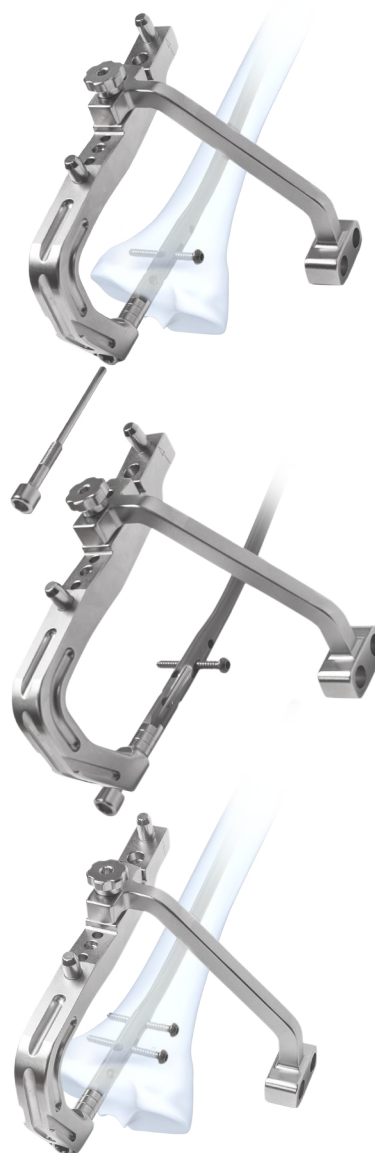
### Proximal M/L Cortical Locking Screw Insertion

Remove Position Rod (015036), Positioning Rod Block (015037), unscrew the Proximal Bolt and remove Aiming Bar (015030), then attaches **Proximal Aiming Device for Cortical Screw (015048)** fixing by **Proximal Bolt (015049)** on the Insertion Handle. Apply the same screw insertion technique of introducing the 1<sup>st</sup> distal M/L locking screw to introduce the 1<sup>st</sup> proximal A/L locking screw, then the 2<sup>nd</sup> one.



### **Compression Locking Mode**

For situations where the fracture gap needs compression after nail insertion, diastasis, compression of the fracture gap can be accomplished without removing the insertion instruments. The DXT Professional Tibial Nail allows for a maximum compression of 7 mm. After fixation of the 1<sup>st</sup> M/L cortical screw in the slotted hole at the proximal side of tibial nail on the bone, mount the **Compression Bolt (015056)** onto **Guide Bolt (015022)**, through the top of Insertion Handle and tighten the **Compression Bolt (015056)** by **Guide Bolt Wrench, Ball Tip (015057)** gradually, then the compression derives from tightening down Compression Bolt against the 1<sup>st</sup> cortical screw in slotted hole on nail fixed on bone. After compression with satisfactory, now the 2<sup>nd</sup> cortical screw can be placed through **Proximal Aiming Device for Cortical Screw (015048)** and fixed onto the bone to maintain this compression. If more compression of the fracture gap is needed, the conventional backstroke technique (by using instruments: 015024, 015025, 015027, 015028, 015029) is recommended.



### **Proximal Oblique and A/P Cancellous Locking Screw Insertion**

If necessary, Oblique locking screws are also able to be introduced according to fracture type. This neutralizes the deforming forces on proximal fragments caused by the quadriceps mechanism and relieves the pressure on soft tissue usually associated with tibial nail insertion instruments. Remove Proximal Aiming Device for Cortical Screw (015053), then attaches **Proximal Aiming Device, for Cancellous Screw (015050)** onto the Insertion Handle fixing by **Proximal Bolt (015049)**.



Apply the same screw insertion technique of introducing the 1<sup>st</sup> distal M/L locking screw to introduce the 1<sup>st</sup> proximal cancellous oblique locking screw by using the **Assembly (015051, 105052 & 015053)** and **Ø3.2 Drill Bit (015054)**, then the 2<sup>nd</sup>. To introduce the 3rd A/P Cancellous Locking Screw requires insertion of the **Assembly (015051, 105052 & 015053)** into the Assembly hole on Insertion Handle, then drilling by Ø3.2 Drill Bit, the rest following the same technique of oblique cancellous locking screw insertion.



## End Cap Placement

If the end cap is considered, the proper end cap length can be read from the connecting area between nail and Insertion Handle. Release the **Guide Bolt (015022)** by using **Guide Bolt Wrench, Ball Tip (015057)** to disconnect the Insertion Handle. Attach the proper length end cap and tighten it by **Ball Tip End Cap Wrench, SW3.5 (015023)**



## Closure

Final position of the fracture is confirmed. Following completion of nailing and interlocking screw placement, the Guide and Drill Guide are disassembled by backing off the Quick Bolt. Irrigate incisionb with saline and close in a standard fashion.

## DXT Professional Tibial Nail Extraction Technique

Nail removal may normally be carried out after 18-24 months provided that there is radiological evidence of union. Union may be expected to occur after 6 months with nailing procedures in the tibia. The situation may be different in open fractures, nonunions or corrective osteotomies. In such cases, the nail should be left in situ for a minimum of 24 months.

Place the patient in the supine position on a radiolucent table. After prepping and draping, remove any distal screws and all but keep one proximal screw from the nail, choose to leave the screw closest to the driving end of the nail.

Under fluoroscopy, the proximal end of the nail is exposed through a small incision. It may be necessary to clear some new bone from the end of the nail. The nail end cap is removed with the Screwdriver for Locking Screw, and **Connecting Shaft/Nail Extractor (015025)** is screwed onto the nail and tightened firmly. This should be accomplished prior to removal of the proximal locking screws to prevent the nail from deflecting posteriorly.

The locking screw proximal is now removed. The nail is then removed, either by manual traction on the **Nail Extractor**, or by reverse hammering using **Sliding Hammer**, after screwing the Assembly of **Hammer Gilding Shaft** and **Hammer Guiding Shaft Nut** onto the nail drive end.



## Appendix Table

| DXT Professional Tibial Nails |                                                     |                                        |                                        |                                        |                                        |
|-------------------------------|-----------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| Process                       | Factors                                             | Ø8mm                                   | Ø9mm                                   | Ø10mm                                  | Ø11mm                                  |
| Entry                         | Proximal Dia.                                       | 11mm                                   | 11mm                                   | 11mm                                   | 11mm                                   |
|                               | Entry Reamer                                        | Entry Reamer (015006)                  | Entry Reamer (015006)                  | Entry Reamer (015006)                  | Entry Reamer (015006)                  |
| Proximal Locking              | No.of Proximal Cancellous Locking Screws            | 3                                      | 3                                      | 3                                      | 3                                      |
|                               | Cancellous Locking Screw Dia.                       | Ø4.8mm                                 | Ø4.8mm                                 | Ø4.8mm                                 | Ø4.8mm                                 |
|                               | Drill Bit for Cancellous Locking Screws             | Drill Bit, Ø3.2mm (015054)             | Drill Bit, Ø3.2mm (015054)             | Drill Bit, Ø3.2mm (015054)             | Drill Bit, Ø3.2mm (015054)             |
|                               | Drill Sleeves for Cancellous Locking Screws         | Drill Sleeve, Ø3.2 (015052)            | Drill Sleeve, Ø3.2 (015052)            | Drill Sleeve, Ø3.2 (015052)            | Drill Sleeve, Ø3.2 (015052)            |
|                               | Aiming Device for Proximal Cancellous Locking Screw | (015050)                               | (015050)                               | (015050)                               | (015050)                               |
|                               | No.of Proximal Cortical Locking Screws              | 2                                      | 2                                      | 2                                      | 2                                      |
|                               | Cortical Locking Screw Dia.                         | Ø4.4mm                                 | Ø4.4mm                                 | Ø4.4mm                                 | Ø4.4mm                                 |
|                               | Drill Bit for Cortical Locking Screws               | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             |
|                               | Drill Sleeve for Cortical Locking Screws            | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          |
|                               | Aiming Device for Proximal Cortical Locking Screw   | (015048)                               | (015048)                               | (015048)                               | (015048)                               |
| Distal Locking                | Positioning Instruments                             | Drill Sleeve, Ø5.2mm (015033)          | Drill Sleeve, Ø5.2mm (015033)          | Drill Sleeve, Ø5.2mm (015033)          | Drill Sleeve, Ø5.2mm (015033)          |
|                               |                                                     | Drill Bit, Ø5.2mm (015034)             | Drill Bit, Ø5.2mm (015034)             | Drill Bit, Ø5.2mm (015034)             | Drill Bit, Ø5.2mm (015034)             |
|                               |                                                     | Positioning Rod Drill, Ø5.2mm (015035) | Positioning Rod Drill, Ø5.2mm (015035) | Positioning Rod Drill, Ø5.2mm (015035) | Positioning Rod Drill, Ø5.2mm (015035) |
|                               |                                                     | Position Rod (015036)                  | Position Rod (015036)                  | Position Rod (015036)                  | Position Rod (015036)                  |
|                               |                                                     | Positioning Rod Block (015037)         | Positioning Rod Block (015037)         | Positioning Rod Block (015037)         | Positioning Rod Block (015037)         |
|                               | Drill Bit for Distal Locking                        | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             | Drill Bit, Ø4.0mm (015043)             |
|                               | Drill Sleeve for Distal Locking                     | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          | Drill Sleeve, Ø4.0mm (015042)          |
|                               | Aiming Device for Distal Cortical Locking Screw     | (015038)                               | (015038)                               | (015038)                               | (015038)                               |

## Product Information

### Implants

#### Tibial Nail

| Product No. | Specification (mm) | Material | Remark |
|-------------|--------------------|----------|--------|
| 21110825    | Ø8 × 255           | TA       |        |
| 21110827    | Ø8 × 270           | TA       |        |
| 21110828    | Ø8 × 285           | TA       |        |
| 21110830    | Ø8 × 300           | TA       |        |
| 21110831    | Ø8 × 315           | TA       |        |
| 21110833    | Ø8 × 330           | TA       |        |
| 21110834    | Ø8 × 345           | TA       |        |
| 21110836    | Ø8 × 360           | TA       |        |
| 21110837    | Ø8 × 375           | TA       |        |
| 21110925    | Ø9 × 255           | TA       |        |
| 21110927    | Ø9 × 270           | TA       |        |
| 21110928    | Ø9 × 285           | TA       |        |
| 21110930    | Ø9 × 300           | TA       |        |
| 21110931    | Ø9 × 315           | TA       |        |
| 21110933    | Ø9 × 330           | TA       |        |
| 21110934    | Ø9 × 345           | TA       |        |
| 21110936    | Ø9 × 360           | TA       |        |
| 21110937    | Ø9 × 375           | TA       |        |
| 21111025    | Ø10 × 255          | TA       |        |
| 21111027    | Ø10 × 270          | TA       |        |
| 21111028    | Ø10 × 285          | TA       |        |
| 21111030    | Ø10 × 300          | TA       |        |
| 21111031    | Ø10 × 315          | TA       |        |
| 21111033    | Ø10 × 330          | TA       |        |
| 21111034    | Ø10 × 345          | TA       |        |
| 21111036    | Ø10 × 360          | TA       |        |
| 21111037    | Ø10 × 375          | TA       |        |
| 21111125    | Ø11 × 255          | TA       | CM     |
| 21111127    | Ø11 × 270          | TA       | CM     |
| 21111128    | Ø11 × 285          | TA       | CM     |
| 21111130    | Ø11 × 300          | TA       | CM     |
| 21111131    | Ø11 × 315          | TA       | CM     |
| 21111133    | Ø11 × 330          | TA       | CM     |
| 21111134    | Ø11 × 345          | TA       | CM     |
| 21111136    | Ø11 × 360          | TA       | CM     |
| 21111137    | Ø11 × 375          | TA       | CM     |



## Ø4.8mm Tibial Nail Interlocking Cancellous Screw

| Product No. | Length (mm) | Material | Remark |
|-------------|-------------|----------|--------|
| 21848025    | 25          | TA       |        |
| 21848030    | 30          | TA       |        |
| 21848035    | 35          | TA       |        |
| 21848040    | 40          | TA       |        |
| 21848045    | 45          | TA       |        |
| 21848050    | 50          | TA       |        |
| 21848055    | 55          | TA       |        |
| 21848060    | 60          | TA       |        |
| 21848065    | 65          | TA       |        |
| 21848070    | 70          | TA       |        |
| 21848075    | 75          | TA       |        |
| 21848080    | 80          | TA       |        |
| 21848085    | 85          | TA       |        |
| 21848090    | 90          | TA       |        |



## Tibial Nail End Cap

| Product No. | Extention Length | Material | Remark |
|-------------|------------------|----------|--------|
| 21980800    |                  | TA       |        |
| 21980805    | 5                | TA       |        |
| 21980810    | 10               | TA       |        |
| 21980815    | 15               | TA       |        |



## Ø4.4mm Tibial Nail Interlocking Screw

| Product No. | Length (mm) | Material | Remark |
|-------------|-------------|----------|--------|
| 21844024    | 24          | TA       |        |
| 21844026    | 26          | TA       |        |
| 21844028    | 28          | TA       |        |
| 21844030    | 30          | TA       |        |
| 21844032    | 32          | TA       |        |
| 21844034    | 34          | TA       |        |
| 21844036    | 36          | TA       |        |
| 21844038    | 38          | TA       |        |
| 21844040    | 40          | TA       |        |
| 21844042    | 42          | TA       |        |
| 21844044    | 44          | TA       |        |
| 21844046    | 46          | TA       |        |
| 21844048    | 48          | TA       |        |
| 21844050    | 50          | TA       |        |
| 21844052    | 52          | TA       |        |
| 21844054    | 54          | TA       |        |
| 21844056    | 56          | TA       |        |
| 21844058    | 58          | TA       |        |
| 21844060    | 60          | TA       |        |
| 21844062    | 62          | TA       |        |
| 21844064    | 64          | TA       |        |
| 21844066    | 66          | TA       |        |
| 21844068    | 68          | TA       |        |
| 21844070    | 70          | TA       |        |
| 21844072    | 72          | TA       |        |
| 21844074    | 74          | TA       |        |
| 21844076    | 76          | TA       |        |
| 21844078    | 78          | TA       |        |
| 21844080    | 80          | TA       |        |
| 21844082    | 82          | TA       |        |
| 21844084    | 84          | TA       |        |
| 21844086    | 86          | TA       |        |
| 21844088    | 88          | TA       |        |



## Instruments

015001 Radiographic Ruler



015002 Tip Threaded Guide Wire, Ø3.2mm



015003 Entry Drill Sleeve



015004 Straight Awl



015005 Curved Awl, Cannulated



015006 Entry Reamer



015007 T-handle with Quick Coupling



015008 Reducer



015009 Ball Tip Guide Wire



015010 Flexible Reamer Shaft



015011 Reamer Head, Ø 7.5mm



015012 Reamer Head, Ø 8mm



015013 Reamer Head, Ø 8.5mm



015014 Reamer Head, Ø 9mm



015015 Reamer Head, Ø 9.5mm



015016 Reamer Head, Ø 10mm



015017 Reamer Head, Ø 10.5mm



015018 Reamer Head, Ø 11mm



015019 Reamer Head, Ø 11.5mm



015020 Reamer Head, Ø 12mm



015021 Insertion Handle



015022 Guide Bolt



015023 Ball Tip End Cap Wrench, SW3.5



015024 Connecting Shaft Block



015025 Connecting Shaft/Nail Extractor



015026 Spanner



015027 Hammer Guiding Shaft



015028 Hammer Guiding Shaft Nut



015029 Sliding Hammer



015030 Distal Aiming Bar



015031 Distal Bolt



015032 Bolt Wrench, SW5.0



015033 Drill Sleeve, Ø 5.2mm



015034 Drill Bit, Ø 5.2mm



015035 Positioning Rod Drill, Ø 5.2mm



015036 Position Rod



015037 Positioning Rod Block



015038 Distal Amiming Device



015039 Distal Amiming Device Bolt



015040 Outer Drill Sleeve



015041 Trocar



015042 Drill Sleeve, Ø 4.0mm



015043 Drill Bit, Ø 4.0mm



015044 Stopper, Ø 4.0mm



015045 Stopper Wrench, SW3.0



015046 Screw Length Gauge



015047 Screwdriver for Locking Screw, SW3.5



015048 Proximal Aiming Device, for Cortical Screw



015049 Proximal Bolt



015050 Proximal Aiming Device, for  
Cancellous Screw



015051 Outer Drill Sleeve for Cancellous Screw



015052 Drill Sleeve, Ø 3.2



015053 Trochar



015054 Drill Bit, Ø 3.2mm



015055 Stopper, Ø 3.2mm



015056 Compression Bolt



015057 Guide Bolt Wrench, Ball Tip







Furthermore, product availability is subject to the regulatory and/or medical practices in individual markets. Some or all products described in those documents may not be available in your region. Please contact your Dunitech representative for information regarding product availability in your area.

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