



# Surgical Technique

## *Gamma Nailing System*



# about us

Auxein Medical is an integrated, research based, orthopaedic Implants & Instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and innovator products that exceed the highest expectations of our customers in term of quality and safety. The company has world-class manufacturing unit established in India and serves customers in over 60 countries worldwide.

## **Our Achievements**

- US FDA 510K APPROVED •**  
*(Arthroscopy, Spine, Nailing, Locking Plates & Screws)*
- EC Certificate - Class IIa & IIb •
- ISO 13485:2016 •
- ISO 9001:2015 •
- India FDA Approved •
- India MDR 2017 •

## INTRODUCTION

The **AUXEIN MEDICAL'S** Ga-mma Nailing system Implants are intended to be used for temporary fixation and stabilization of Femur bone in proximal and shaft region. This system is a single use implantable device for long term duration (intended for continuous use for more than 30 days).



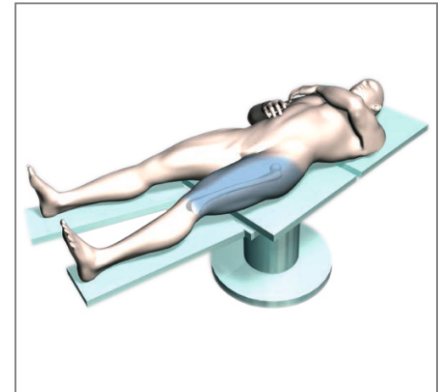
## INDICATIONS:

The Gamma Nail is intended to treat stable and unstable proximal Femoral fractures including:

- Intertrochanteric fracture
- Pertrochanteric fractures
- High Subtrochanteric fracture
- Combinations of these fractures including non-union, malunion and tumor resection

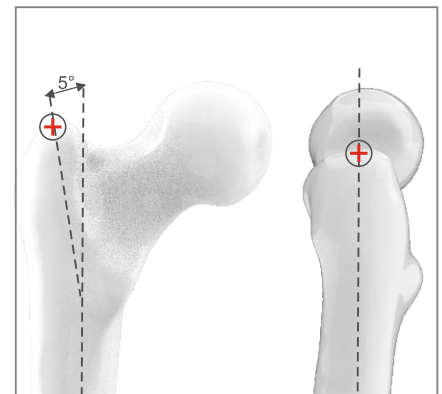


**Patient Positioning:** For Nail insertion, a lateral access to the proximal femur is required. So, the patient is positioned in supine or lateral position to provide lateral access to proximal femur.



**Fracture Reduction:** Closed fracture reduction is performed to obtain an acceptable fracture alignment before nail insertion. For more complicated fractures an open reduction is performed when an acceptable fracture alignment is not obtained using the closed reduction technique. The fracture alignment is ensured under a C-arm.

**Skin Incision:** An incision is made in line with femoral axis and proximal to tip of greater trochanter in order to get access to the tip of greater trochanter.



**Nail Measurement:** The Radiographic ruler is used to measure the size of the desired nail to be inserted. Place the Radiographic ruler in line with the femur bone. Now move the C arm over it and check the required nail length in AP view according to the markings on the ruler.

To measure the required diameter of the nail, the radiographic ruler is placed perpendicular to the femoral axis so that the diameter gauge is located over the intramedullary canal. Now from gauge choose the largest diameter nail that fits into the intramedullary canal.



**Femoral Entry Preparation:** The Protection sleeve for entry reamer (1457-055) is placed on tip of the greater trochanter. The guide sleeve for guide wire (1457-056) is then passed through it. Now the 3.0mm Threaded Guide wire (1457-045-3.0) is attached to the guide wire Holder (1457-015) and is passed through the guide sleeve for guide wire into the center of femoral canal. Ensure in both AP and lateral views that threaded guide wire is centered on the trochanter.

**NOTE:** The Multi Hole Guide Wire Sleeve has a special design for more precise insertion. In addition to the central hole, 4 other holes are located eccentrically at different distances from the center to easily revise insertion of the guiding (1457-045-3.0) in the proper position (Entry Point).



There are 2 tool options for preparing femoral entry site as described below:

1. **Using Entry reamer:** The guide wire sleeve (1457-056) is first removed from the protection sleeve (1457-055). The Entry reamer (1457-010) is then coupled to the T Handle with quick coupling (1457-009) and is passed over the guide wire through the protection sleeve and the reaming is performed through the femoral cortex. Reaming is continued until the tip of entry reamer is at the level of lesser trochanter and not beyond.



2. **Using Cannulated Awl:** Firstly, both Guide sleeve for guide wire (1457-056) and the Protection Sleeve (1457-055) are removed. Now the Cannulated awl (1457-011) is passed through the guide wire to create an entry to the femur canal.



**Medullary canal preparation:**

**For short Nail:** Femoral diaphysis has to be wide and long enough to accommodate the selected nail diameter to pass through. If the size is not appropriate for nail insertion, then the hole is reamed as per the requirement.

**For Long Nail:** Once the entry to the femoral canal is created, the reduction rod (7-008-12) is inserted into medullary canal past the fracture site. Once the fracture is in alignment, the guide wire with ball tip (1457-004) is inserted across the fracture site and the reduction rod is removed. The Flexible reamer of appropriate size is then advanced over the guide wire to initiate the reaming process.



The medullary canal is reamed with 1.0mm increments until the cortical bone is reached. Thereafter the increments are reduced to 0.5mm. The reaming is observed under the C-arm.





**Jig Assembly:** The Insertion handle (**1457-013**) is first attached to the Nail. The slot in the nail is aligned with the tab in the insertion handle. To secure the Nail in place, the Nail holding bolt (**1457-014**) is inserted through the insertion handle using Universal Screwdriver with T handle for nail holding bolt (**1457-034**).



An appropriate Proximal Targeting Device (130° or 125°) according to the selected nail is attached to the insertion handle.

Before Inserting the Nail into bone, confirm the alignment of the nail holes with the targeting device hole. The protection sleeve for cephalic screw (**1457-028**) is inserted into the proximal targeting device hole and the alignment is checked.



Insert the Nail and insertion handle assembly onto the ball tip guide wire. Now attach the Insertion connecting rod with block (**1457-016**) on top of insertion handle. Apply gentle taps on top of the connecting rod with the help of insertion hammer (**1457-018**) for final placement of the nail into bone.

**Note:** The insertion handle should directly not be hammered. Prior to the Cephalic screw Insertion, maintenance of the bone reduction must be confirmed. After the reduction has been confirmed, remove the ball tip guide wire.



**Proximal Locking:** The Ga-mma Nail is available in two different variants :

1. Ga-mma Nail, Type-II
2. Anti-rotation Ga-mma Nail

Both the Nails are available in 125° and 130° variants. So the step for checking alignment using proximal targeting device applies to both the Nails.

**For Anti-rotation Ga-mma Nail there are two proximal locking options:**

1. Locking with Cephalic screw
2. Locking with Anti-rotation screw

**Option I: Locking with Cephalic screw**

The Cephalic screw sleeve assembly{Protection sleeve 14/11.3mm (**1457-028**), Trocar sleeve 8.5/3.5mm (**1457-029**) & Trocar 3.2mm (**1457-030**)} is inserted through the cephalic screw hole (Distal Hole) of the proximal targeting device. A skin incision is made in order to provide bone access to the cephalic screw sleeve. Advance the cephalic screw sleeve assembly such that it sits on the femoral cortex. Confirm the final position with the help of fluoroscopy. After the Assembly sits perfectly, fix it in place by tightening the locking bolt at the distal end of the proximal targeting device. Trocar may be used to create a starting point for the threaded guide wire.



Remove the trocar and with the help of Guide wire Holder (**1457-015**) insert the Ø3.0mm Threaded Guide wire (**1457-045-3.0**) through the trocar sleeve 8.5/3.5mm to a depth within 5mm from the subchondral bone. Confirm the final guide wire position in both AP and lateral views under the fluoroscopy.

**Note:** If there is any bending observed during the guide wire insertion, the guide wire should immediately be replaced.



**Determining the Cephalic screw Length:** In order to measure the required cephalic screw length the Measuring device (1457-031) is slid onto the pre inserted Ø3.0mm Guide wire in such a way that it crosses the Trocar Sleeve and sits on Protection sleeve. The reading on the Measuring device coinciding with the tip of guide wire indicates the required length of Cephalic screw.



**Drilling for Cephalic screw:** The length on Ø10.5mm Cannulated reamer (1457-036) is adjusted to the predetermined cephalic screw length by pushing the button on drill stop and sliding until it reaches the desired depth. The Trocar Sleeve 8.5/3.5mm (1457-029) is removed and the Ø10.5mm Cannulated Reamer is inserted along the guide wire and through the protection sleeve. The drilling is performed until the drill stop reaches the end of protection sleeve.



**Cephalic screw Insertion:** The cephalic screw is attached to the inserter (1457-032). Tighten the coupling rod to secure the cephalic screw to the inserter. Manually advance the cephalic screw into the femoral neck through the protection sleeve over the guide wire. Under fluoroscopy confirm the final placement of cephalic screw as it should be positioned between 5 to 10mm from the subchondral bone.



**Fracture Reduction:** To achieve the Femoral neck fracture reduction, the compression wheel on the inserter is rotated in clockwise direction. After the compression screw reaches the protection sleeve further screw rotation would cause the cephalic screw to retrieve and hence lead to the fracture reduction. Now remove the guide wire.

**Note:** It is recommended not to compress the fracture more than 4-6mm.



**Cephalic screw fixation:** The Inner screw for Anti-rotation Gamma Nail, Long (600-05 or TI-600-05) is used for final fixation of the cephalic screw in place. The inner screw is inserted into the nail and tightened with the help of Flexible screwdriver, 3.5mm Hex (1457-025). The Inner screw is advanced until it sits in one of the cephalic screw grooves and locks it in place.

**Note:** Confirm the proper insertion of the inner screw by gently making an attempt to rotate the cephalic screw in both clockwise and anti-clockwise direction to ensure the inner screw is properly engaged in the Cephalic screw groove.



**Cephalic screw end cap insertion:** Finally, the end cap for Ø10.5mm Cephalic screw (GM01.06) is inserted into the open end of the Cephalic screw. The inserter for Ø6.4mm Cannulated Anti-Rotation Screw (1457-041) is attached to the end cap. Tighten the coupling rod to secure the end cap in place. Rotate the inserter in clockwise direction to advance the end cap into cephalic screw and close the open end.



### Option II: Locking with Anti-rotation screw

The Anti-rotation screw sleeve assembly {Protection Sleeve 10/8.2mm (**1457-038**), Trocar Sleeve 7.5/2.8mm (**1457-039**), Trocar 2.5mm (**1457-040**)} is inserted through the Anti-rotation screw hole (proximal hole) of proximal targeting device. A skin incision is made in order to provide bone access to the Anti-rotation screw sleeve. Advance the Anti-rotation screw sleeve assembly such that it sits on the femoral cortex. Confirm the final position with the help of fluoroscopy. After the Assembly sits perfectly, fix it in place by tightening the locking bolt at the distal end of the proximal targeting device.



Remove the trocar and with the help of Guide wire Holder (**1457-015**) insert the Ø2.5mm Guide wire (**1457-044-2.5**) through the trocar sleeve 7.5/2.8mm to a depth within 15-20mm from the subchondral bone.

**Note:** If there is any bending observed during the guide wire insertion, the guide wire should immediately be replaced.



**Determining Anti-rotation screw length:** The Measuring device (**1457-037**) is slid onto the pre inserted Ø2.5mm Guide wire. The reading on measuring device coinciding with the guide wire tip is the required Anti-rotation screw length.



**Drilling for Anti-rotation screw:** The drill bit stopper on the tapered drill 6.4/4.5mm (1457-042) is adjusted to the predetermined screw length and is fixed with the help of Allen wrench (1457-026). The tapered drill with preset length is coupled to the T handle with quick coupling (1457-009) and passed through the protection sleeve 10/8.2mm (1457-038) after removing trocar sleeve 7.5/2.8mm (1457-039). The tapered drill is then advanced and the bone is drilled to the preset length.



**Anti-rotation screw insertion:** The Anti-rotation screw is attached to the inserter for Ø6.4mm Cannulated Anti-rotation screw (1457-041). The coupling is then tightened to secure the Anti-rotation screw in place. Insert the Anti-rotation screw through the protection sleeve over the guide wire with the help of inserter.



**Securing the Anti-rotation screw:** For final securing of the Anti-rotation screw in place, the Inner screw for Anti-rotation Ga-mma Nail, short (601-05 or TI-601-05) is inserted into the nail and tightened with the help of Flexible screwdriver, 3.5mm Hex (1457-025).

**For Ga-mma Nail Type-II:**

The Ga-mma Nail Type-II is designed to facilitate insertion of Cephalic screw only. Hence, for proximal locking of the Ga-mma Nail Type-II follow the instructions as stated in the option I for Anti-rotation Ga-mma Nail with only difference in the Cephalic screw fixation step as described below:

Instead of inner screw for Anti-rotation Ga-mma Nail, long (600-05 or TI-600-05), the inner screw for Ga-mma Nail type-II (1457-05 or TI-1457-05) is used for final securing of the cephalic screw.



**Distal Locking (for short nail):** The distal locking for both Type-II and Anti-rotation short nails will be same. The short nail may either be locked statically or dynamically or even left unlocked based on the fracture pattern and surgeon preference.

**For static Locking:**

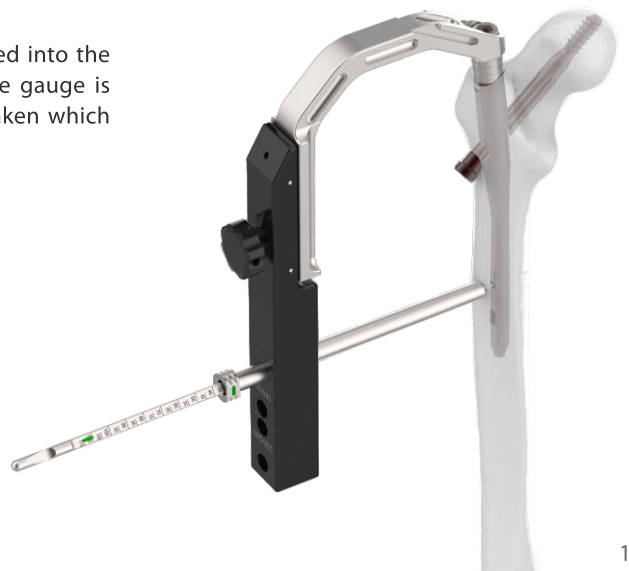
Depending on the nail length, the protection sleeve 10/8.2mm (1457-020) is passed through the hole on the Distal targeting device (1457-023) as per the markings on the targeting device and is advanced through the skin until it sits flush on the lateral femoral cortex. E.g. if we are using a 180mm length nail the sleeve is passed through the 180mm mark on the Distal targeting device. A starting point for drilling is then created by inserting the Ø8mm Trocar (1457-021) through the protection sleeve.



Following this, the Trocar is removed and the Drill sleeve 8/4.3mm (1457-022-4.3) is passed through the protection sleeve. Now, the Ø4.3mm drill bit is advanced through the drill sleeve and the bone is drilled until the far cortex.



**Determining Screw length:** The Depth gauge (1457-048) is inserted into the protection sleeve after removing the drill and the other end of the gauge is hooked onto the far cortex. Now, the reading on depth gauge is taken which indicates the required Ø4.8mm Locking bolt length.



**Screw Insertion:** The screwdriver with T handle, 3.5mm Hex (**1457-033**) is used to insert the Ø4.8mm locking bolt through the protection sleeve.

**For Dynamic Locking:**

For dynamic locking, the locking bolt is inserted only in the distal end of oblong hole and not in the round hole. Hence for dynamic locking, repeat the same steps as mentioned above but all the steps from drilling to screw insertion will be performed through the distal hole on the Distal targeting device (**1457-023**).



**Distal Locking (for Long Nail):**

There are three different configurations in which the locking bolt can be inserted in distal end of Gamma nail Type-II and Antirotaion Gamma Nail as described below:

**1.Standard Dynamic Locking:** This configuration requires only one screw at the distal end of the oblong hole while the round hole is left empty. This configuration helps in dynamization and compressing the femoral shaft fracture.

**2.Secondary Dynamic Locking:** In this configuration, one locking bolt is inserted in the round hole while the other locking bolt is inserted at the distal end of oblong hole. If after a period of time, dynamization is required the locking bolt in the round hole is removed.

**3.Static locking:** For static locking, one locking bolt is inserted in the round hole while the other locking bolt is inserted at the proximal end of oblong hole

**Nail Repositioning:** Prior to performing Distal locking in the Gamma nail it is important to reposition the nail for proper alignment of the nail holes with the holes in jig.

To the Nail and Insertion Handle (**1457-013**) assembly attach the Proximal Aiming Bar (**7-008-13**) and fix it in place with the help of Locking Bolt for Proximal Aiming bar (**7-008-28**).

Align the Arrow mark on Proximal Aiming Bar with the arrow on the Distal Aiming Bar (**7-008-14**) indicating the selected nail length. Along with it also align the nail orientation (left or right) hole in Proximal aiming bar with the hole in distal aiming bar and fix it by screwing the locking bolt for distal aiming bar (**7-008-27**) into the aligned holes.

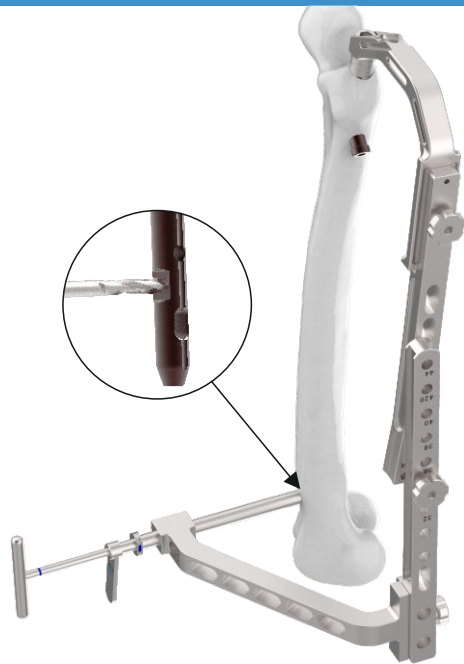
To the distal aiming bar attach the Distal targeting device (**7-008-04**) and fix with the help of distal bolt (**7-008-29**).





To the hole in the distal targeting device insert Outer sleeve 10/8.1mm (**7-008-08**) & Trocar (**7-008-09**). Make a skin incision in line with trocar and advance the assembly into incision until it sits flush with the bone. Using trocar, make a mark for drilling and then remove it.

Through the Outer sleeve insert the drill sleeve (**7-008-10**) and advance the  $\varnothing$ 5.2mm Flat Drill with T Handle (**7-008-01**) into the drill sleeve and drill until the slot in the nail is reached and retrieve back both drill bit and drill sleeve.



Now insert the positioning rod (**7-008-11**) through protective sleeve and advance it such that it sits on the nail slot. Continue until the nail is in desired position and lock it in place using stabilizing device (**7-008-06**). There are 2 stabilizing device one for  $\varnothing$ 9,  $\varnothing$ 10,  $\varnothing$ 11mm nail while the other for  $\varnothing$ 12 &  $\varnothing$ 13mm nail. Accordingly choose the appropriate stabilizing device.



The two holes in the distal end of Distal aiming bar (**7-008-14**) are now in alignment with two distal holes of the nail. The  $\varnothing$ 4.8mm locking bolt can be inserted in the round static hole or the oblong dynamic hole or either both of them depending on the fracture type and the surgeon preference as described in the three different locking configurations mentioned above.

Depending on in which distal hole, the locking bolt has to be inserted accordingly insert the Protection sleeve 10/8.2 (**1457-20**) & Trocar (**1457-021**) assembly through the corresponding hole. Make a stab incision in line with the trocar and advance the assembly through the incision until it sits flush with the bone. With the help of trocar make a mark for drilling and remove it.



Through the protection sleeve insert Drill sleeve 8/4.3mm (**1457-022-4.3**) followed by insertion of the Ø4.3mm Drill bit (**1457-051-4.3**) through the Drill Sleeve and drill the bone until far cortex.



Remove the drill bit and advance the depth gauge (**1457-048**) through the protection sleeve (**1457-020**) and measure the required Ø4.8mm locking bolt length for insertion.



Remove the depth gauge and using the Screwdriver with T-handle, Hex 3.5mm (**1457-033**) insert the Ø4.8mm Locking bolt into the predrilled hole.



**End cap insertion:** In order to prevent the bone ingrowth inside the nail, it is important to close the open end of nail using the end cap. Firstly select the end cap of appropriate height according to the depth of nail insertion in the bone. Using the inserter (1457-032) attach the end cap and screw in the coupling screw into the end cap threads to fix it in the inserter. Now screw in the end cap into the open end of nail.



**Implant Removal:** Make incision for access to the proximal end of nail through the same point used for the nail insertion. Using the inserter (1457-032) remove the end cap from the nail.



After this remove the distal locking bolt using the 3.5 Hex Screwdriver with T handle (1457-033).



Also remove the inner screw if used using the 3.5 Hex Holding Driver (1457-043).



Remove the Cephalic screw or the Anti-rotation screw from the proximal end of nail using the respective screwdriver used for insertion. Leave one screw in the proximal end of nail in order to prevent nail rotation during the attachment of extraction hammering rod (**1457-046**). Also this will prevent the nail from falling into the intramedullary canal.



Attach the extraction hammering rod (**1457-046**) to the open end of nail. Following this, remove the last remaining proximal screw from the nail. Loosen the locking nut of the sliding hammer (**1457-024**) and slide it into the extraction rod. Apply gentle backward blows for final removal of the nail from intramedullary canal.



## 125° Ga-mma Nail Type-II, SHORT

Ø Dia	Length (mm)	Stainless Steel	Titanium
9mm	180	<b>1500S-09-180</b>	<b>TI-1500S-09-180</b>
9mm	200	<b>1500S-09-200</b>	<b>TI-1500S-09-200</b>
9mm	220	<b>1500S-09-220</b>	<b>TI-1500S-09-220</b>
9mm	240	<b>1500S-09-240</b>	<b>TI-1500S-09-240</b>
10mm	180	<b>1500S-10-180</b>	<b>TI-1500S-10-180</b>
10mm	200	<b>1500S-10-200</b>	<b>TI-1500S-10-200</b>
10mm	220	<b>1500S-10-220</b>	<b>TI-1500S-10-220</b>
10mm	240	<b>1500S-10-240</b>	<b>TI-1500S-10-240</b>
11mm	180	<b>1500S-11-180</b>	<b>TI-1500S-11-180</b>
11mm	200	<b>1500S-11-200</b>	<b>TI-1500S-11-200</b>
11mm	220	<b>1500S-11-220</b>	<b>TI-1500S-11-220</b>
11mm	240	<b>1500S-11-240</b>	<b>TI-1500S-11-240</b>
12mm	180	<b>1500S-12-180</b>	<b>TI-1500S-12-180</b>
12mm	200	<b>1500S-12-200</b>	<b>TI-1500S-12-200</b>
12mm	220	<b>1500S-12-220</b>	<b>TI-1500S-12-220</b>
12mm	240	<b>1500S-12-240</b>	<b>TI-1500S-12-240</b>
13mm	180	<b>1500S-13-180</b>	<b>TI-1500S-13-180</b>
13mm	200	<b>1500S-13-200</b>	<b>TI-1500S-13-200</b>
13mm	220	<b>1500S-13-220</b>	<b>TI-1500S-13-220</b>
13mm	240	<b>1500S-13-240</b>	<b>TI-1500S-13-240</b>



## 125° Gamma Nail Type-II, LONG

Ø Dia	Length (mm)	Stainless Steel (Left)	Titanium (Left)	Stainless Steel (Right)	Titanium (Right)
9mm	320	1500L-09-320L	TI-1500L-09-320L	1500L-09-320R	TI-1500L-09-320R
9mm	340	1500L-09-340L	TI-1500L-09-340L	1500L-09-340R	TI-1500L-09-340R
9mm	360	1500L-09-360L	TI-1500L-09-360L	1500L-09-360R	TI-1500L-09-360R
9mm	380	1500L-09-380L	TI-1500L-09-380L	1500L-09-380R	TI-1500L-09-380R
9mm	400	1500L-09-400L	TI-1500L-09-400L	1500L-09-400R	TI-1500L-09-400R
9mm	420	1500L-09-420L	TI-1500L-09-420L	1500L-09-420R	TI-1500L-09-420R
9mm	440	1500L-09-440L	TI-1500L-09-440L	1500L-09-440R	TI-1500L-09-440R
10mm	320	1500L-10-320L	TI-1500L-10-320L	1500L-10-320R	TI-1500L-10-320R
10mm	340	1500L-10-340L	TI-1500L-10-340L	1500L-10-340R	TI-1500L-10-340R
10mm	360	1500L-10-360L	TI-1500L-10-360L	1500L-10-360R	TI-1500L-10-360R
10mm	380	1500L-10-380L	TI-1500L-10-380L	1500L-10-380R	TI-1500L-10-380R
10mm	400	1500L-10-400L	TI-1500L-10-400L	1500L-10-400R	TI-1500L-10-400R
10mm	420	1500L-10-420L	TI-1500L-10-420L	1500L-10-420R	TI-1500L-10-420R
10mm	440	1500L-10-440L	TI-1500L-10-440L	1500L-10-440R	TI-1500L-10-440R
11mm	320	1500L-11-320L	TI-1500L-11-320L	1500L-11-320R	TI-1500L-11-320R
11mm	340	1500L-11-340L	TI-1500L-11-340L	1500L-11-340R	TI-1500L-11-340R
11mm	360	1500L-11-360L	TI-1500L-11-360L	1500L-11-360R	TI-1500L-11-360R
11mm	380	1500L-11-380L	TI-1500L-11-380L	1500L-11-380R	TI-1500L-11-380R
11mm	400	1500L-11-400L	TI-1500L-11-400L	1500L-11-400R	TI-1500L-11-400R
11mm	420	1500L-11-420L	TI-1500L-11-420L	1500L-11-420R	TI-1500L-11-420R
11mm	440	1500L-11-440L	TI-1500L-11-440L	1500L-11-440R	TI-1500L-11-440R
12mm	320	1500L-12-320L	TI-1500L-12-320L	1500L-12-320R	TI-1500L-12-320R
12mm	340	1500L-12-340L	TI-1500L-12-340L	1500L-12-340R	TI-1500L-12-340R
12mm	360	1500L-12-360L	TI-1500L-12-360L	1500L-12-360R	TI-1500L-12-360R
12mm	380	1500L-12-380L	TI-1500L-12-380L	1500L-12-380R	TI-1500L-12-380R
12mm	400	1500L-12-400L	TI-1500L-12-400L	1500L-12-400R	TI-1500L-12-400R
12mm	420	1500L-12-420L	TI-1500L-12-420L	1500L-12-420R	TI-1500L-12-420R
12mm	440	1500L-12-440L	TI-1500L-12-440L	1500L-12-440R	TI-1500L-12-440R
13mm	320	1500L-13-320L	TI-1500L-13-320L	1500L-13-320R	TI-1500L-13-320R
13mm	340	1500L-13-340L	TI-1500L-13-340L	1500L-13-340R	TI-1500L-13-340R
13mm	360	1500L-13-360L	TI-1500L-13-360L	1500L-13-360R	TI-1500L-13-360R
13mm	380	1500L-13-380L	TI-1500L-13-380L	1500L-13-380R	TI-1500L-13-380R
13mm	400	1500L-13-400L	TI-1500L-13-400L	1500L-13-400R	TI-1500L-13-400R
13mm	420	1500L-13-420L	TI-1500L-13-420L	1500L-13-420R	TI-1500L-13-420R
13mm	440	1500L-13-440L	TI-1500L-13-440L	1500L-13-440R	TI-1500L-13-440R



## 130° Gamma Nail Type-II, SHORT

Ø Dia	Length (mm)	Stainless Steel	Titanium
9mm	180	<b>1457S-09-180</b>	<b>TI-1457S-09-180</b>
9mm	200	<b>1457S-09-200</b>	<b>TI-1457S-09-200</b>
9mm	220	<b>1457S-09-220</b>	<b>TI-1457S-09-220</b>
9mm	240	<b>1457S-09-240</b>	<b>TI-1457S-09-240</b>
10mm	180	<b>1457S-10-180</b>	<b>TI-1457S-10-180</b>
10mm	200	<b>1457S-10-200</b>	<b>TI-1457S-10-200</b>
10mm	220	<b>1457S-10-220</b>	<b>TI-1457S-10-220</b>
10mm	240	<b>1457S-10-240</b>	<b>TI-1457S-10-240</b>
11mm	180	<b>1457S-11-180</b>	<b>TI-1457S-11-180</b>
11mm	200	<b>1457S-11-200</b>	<b>TI-1457S-11-200</b>
11mm	220	<b>1457S-11-220</b>	<b>TI-1457S-11-220</b>
11mm	240	<b>1457S-11-240</b>	<b>TI-1457S-11-240</b>
12mm	180	<b>1457S-12-180</b>	<b>TI-1457S-12-180</b>
12mm	200	<b>1457S-12-200</b>	<b>TI-1457S-12-200</b>
12mm	220	<b>1457S-12-220</b>	<b>TI-1457S-12-220</b>
12mm	240	<b>1457S-12-240</b>	<b>TI-1457S-12-240</b>
13mm	180	<b>1457S-13-180</b>	<b>TI-1457S-13-180</b>
13mm	200	<b>1457S-13-200</b>	<b>TI-1457S-13-200</b>
13mm	220	<b>1457S-13-220</b>	<b>TI-1457S-13-220</b>
13mm	240	<b>1457S-13-240</b>	<b>TI-1457S-13-240</b>





## 130° Gamma Nail Type-II, LONG

Ø Dia	Length (mm)	Stainless Steel (Left)	Titanium (Left)	Stainless Steel (Right)	Titanium (Right)
9mm	320	1457L-09-320L	TI-1457L-09-320L	1457L-09-320R	TI-1457L-09-320R
9mm	340	1457L-09-340L	TI-1457L-09-340L	1457L-09-340R	TI-1457L-09-340R
9mm	360	1457L-09-360L	TI-1457L-09-360L	1457L-09-360R	TI-1457L-09-360R
9mm	380	1457L-09-380L	TI-1457L-09-380L	1457L-09-380R	TI-1457L-09-380R
9mm	400	1457L-09-400L	TI-1457L-09-400L	1457L-09-400R	TI-1457L-09-400R
9mm	420	1457L-09-420L	TI-1457L-09-420L	1457L-09-420R	TI-1457L-09-420R
9mm	440	1457L-09-440L	TI-1457L-09-440L	1457L-09-440R	TI-1457L-09-440R
10mm	320	1457L-10-320L	TI-1457L-10-320L	1457L-10-320R	TI-1457L-10-320R
10mm	340	1457L-10-340L	TI-1457L-10-340L	1457L-10-340R	TI-1457L-10-340R
10mm	360	1457L-10-360L	TI-1457L-10-360L	1457L-10-360R	TI-1457L-10-360R
10mm	380	1457L-10-380L	TI-1457L-10-380L	1457L-10-380R	TI-1457L-10-380R
10mm	400	1457L-10-400L	TI-1457L-10-400L	1457L-10-400R	TI-1457L-10-400R
10mm	420	1457L-10-420L	TI-1457L-10-420L	1457L-10-420R	TI-1457L-10-420R
10mm	440	1457L-10-440L	TI-1457L-10-440L	1457L-10-440R	TI-1457L-10-440R
11mm	320	1457L-11-320L	TI-1457L-11-320L	1457L-11-320R	TI-1457L-11-320R
11mm	340	1457L-11-340L	TI-1457L-11-340L	1457L-11-340R	TI-1457L-11-340R
11mm	360	1457L-11-360L	TI-1457L-11-360L	1457L-11-360R	TI-1457L-11-360R
11mm	380	1457L-11-380L	TI-1457L-11-380L	1457L-11-380R	TI-1457L-11-380R
11mm	400	1457L-11-400L	TI-1457L-11-400L	1457L-11-400R	TI-1457L-11-400R
11mm	420	1457L-11-420L	TI-1457L-11-420L	1457L-11-420R	TI-1457L-11-420R
11mm	440	1457L-11-440L	TI-1457L-11-440L	1457L-11-440R	TI-1457L-11-440R
12mm	320	1457L-12-320L	TI-1457L-12-320L	1457L-12-320R	TI-1457L-12-320R
12mm	340	1457L-12-340L	TI-1457L-12-340L	1457L-12-340R	TI-1457L-12-340R
12mm	360	1457L-12-360L	TI-1457L-12-360L	1457L-12-360R	TI-1457L-12-360R
12mm	380	1457L-12-380L	TI-1457L-12-380L	1457L-12-380R	TI-1457L-12-380R
12mm	400	1457L-12-400L	TI-1457L-12-400L	1457L-12-400R	TI-1457L-12-400R
12mm	420	1457L-12-420L	TI-1457L-12-420L	1457L-12-420R	TI-1457L-12-420R
12mm	440	1457L-12-440L	TI-1457L-12-440L	1457L-12-440R	TI-1457L-12-440R
13mm	320	1457L-13-320L	TI-1457L-13-320L	1457L-13-320R	TI-1457L-13-320R
13mm	340	1457L-13-340L	TI-1457L-13-340L	1457L-13-340R	TI-1457L-13-340R
13mm	360	1457L-13-360L	TI-1457L-13-360L	1457L-13-360R	TI-1457L-13-360R
13mm	380	1457L-13-380L	TI-1457L-13-380L	1457L-13-380R	TI-1457L-13-380R
13mm	400	1457L-13-400L	TI-1457L-13-400L	1457L-13-400R	TI-1457L-13-400R
13mm	420	1457L-13-420L	TI-1457L-13-420L	1457L-13-420R	TI-1457L-13-420R
13mm	440	1457L-13-440L	TI-1457L-13-440L	1457L-13-440R	TI-1457L-13-440R



### End Cap For Ga-mma Nail Type-II



Length (mm)	Stainless Steel	Titanium
0	<b>1457-001E</b>	<b>TI-1457-001E</b>
5	<b>1457-005E</b>	<b>TI-1457-005E</b>
10	<b>1457-010E</b>	<b>TI-1457-010E</b>
15	<b>1457-015E</b>	<b>TI-1457-015E</b>

### Inner Screw For Ga-mma Nail Type-II



Stainless Steel	Titanium
<b>1457-0S</b>	<b>TI-1457-0S</b>

### Ø10.5mm Cephalic Screw, For Ga-mma Nail



Ø Dia	Length (mm)	Stainless Steel	Titanium
10.5mm	70	<b>600C-10.5-070</b>	<b>TI-600C-10.5-070</b>
10.5mm	75	<b>600C-10.5-075</b>	<b>TI-600C-10.5-075</b>
10.5mm	80	<b>600C-10.5-080</b>	<b>TI-600C-10.5-080</b>
10.5mm	85	<b>600C-10.5-085</b>	<b>TI-600C-10.5-085</b>
10.5mm	90	<b>600C-10.5-090</b>	<b>TI-600C-10.5-090</b>
10.5mm	95	<b>600C-10.5-095</b>	<b>TI-600C-10.5-095</b>
10.5mm	100	<b>600C-10.5-100</b>	<b>TI-600C-10.5-100</b>
10.5mm	105	<b>600C-10.5-105</b>	<b>TI-600C-10.5-105</b>
10.5mm	110	<b>600C-10.5-110</b>	<b>TI-600C-10.5-110</b>
10.5mm	115	<b>600C-10.5-115</b>	<b>TI-600C-10.5-115</b>
10.5mm	120	<b>600C-10.5-120</b>	<b>TI-600C-10.5-120</b>

### End Cap For Ø10.5mm Cephalic Screw For Ga-mma Nail

Stainless Steel	Titanium
<b>GM01.06</b>	<b>TI-GM01.06</b>



### Ø4.8mm Locking Bolt, Self-Tapping, For Ga-mma Nail



Length (mm)	Stainless Steel	Titanium
26	<b>600-026</b>	<b>TI-600-026</b>
28	<b>600-028</b>	<b>TI-600-028</b>
30	<b>600-030</b>	<b>TI-600-030</b>
32	<b>600-032</b>	<b>TI-600-032</b>
34	<b>600-034</b>	<b>TI-600-034</b>
36	<b>600-036</b>	<b>TI-600-036</b>
38	<b>600-038</b>	<b>TI-600-038</b>
40	<b>600-040</b>	<b>TI-600-040</b>
42	<b>600-042</b>	<b>TI-600-042</b>
44	<b>600-044</b>	<b>TI-600-044</b>
46	<b>600-046</b>	<b>TI-600-046</b>
48	<b>600-048</b>	<b>TI-600-048</b>
50	<b>600-050</b>	<b>TI-600-050</b>
52	<b>600-052</b>	<b>TI-600-052</b>
54	<b>600-054</b>	<b>TI-600-054</b>
56	<b>600-056</b>	<b>TI-600-056</b>
58	<b>600-058</b>	<b>TI-600-058</b>
60	<b>600-060</b>	<b>TI-600-060</b>
65	<b>600-065</b>	<b>TI-600-065</b>
70	<b>600-070</b>	<b>TI-600-070</b>
75	<b>600-075</b>	<b>TI-600-075</b>
80	<b>600-080</b>	<b>TI-600-080</b>
85	<b>600-085</b>	<b>TI-600-085</b>
90	<b>600-090</b>	<b>TI-600-090</b>

## 125° Anti-Rotation Ga-mma Nail, SHORT

Ø Dia	Length (mm)	Stainless Steel	Titanium
9mm	180	<b>1501S-09-180</b>	<b>TI-1501S-09-180</b>
9mm	200	<b>1501S-09-200</b>	<b>TI-1501S-09-200</b>
9mm	220	<b>1501S-09-220</b>	<b>TI-1501S-09-220</b>
9mm	240	<b>1501S-09-240</b>	<b>TI-1501S-09-240</b>
10mm	180	<b>1501S-10-180</b>	<b>TI-1501S-10-180</b>
10mm	200	<b>1501S-10-200</b>	<b>TI-1501S-10-200</b>
10mm	220	<b>1501S-10-220</b>	<b>TI-1501S-10-220</b>
10mm	240	<b>1501S-10-240</b>	<b>TI-1501S-10-240</b>
11mm	180	<b>1501S-11-180</b>	<b>TI-1501S-11-180</b>
11mm	200	<b>1501S-11-200</b>	<b>TI-1501S-11-200</b>
11mm	220	<b>1501S-11-220</b>	<b>TI-1501S-11-220</b>
11mm	240	<b>1501S-11-240</b>	<b>TI-1501S-11-240</b>
12mm	180	<b>1501S-12-180</b>	<b>TI-1501S-12-180</b>
12mm	200	<b>1501S-12-200</b>	<b>TI-1501S-12-200</b>
12mm	220	<b>1501S-12-220</b>	<b>TI-1501S-12-220</b>
12mm	240	<b>1501S-12-240</b>	<b>TI-1501S-12-240</b>
13mm	180	<b>1501S-13-180</b>	<b>TI-1501S-13-180</b>
13mm	200	<b>1501S-13-200</b>	<b>TI-1501S-13-200</b>
13mm	220	<b>1501S-13-220</b>	<b>TI-1501S-13-220</b>
13mm	240	<b>1501S-13-240</b>	<b>TI-1501S-13-240</b>



## 125° Anti-Rotation Ga-mma Nail, Long

Ø Dia	Length (mm)	Stainless Steel (Left)	Titanium (Left)	Stainless Steel (Right)	Titanium (Right)
9mm	320	1501L-09-320L	TI-1501L-09-320L	1501L-09-320R	TI-1501L-09-320R
9mm	340	1501L-09-340L	TI-1501L-09-340L	1501L-09-340R	TI-1501L-09-340R
9mm	360	1501L-09-360L	TI-1501L-09-360L	1501L-09-360R	TI-1501L-09-360R
9mm	380	1501L-09-380L	TI-1501L-09-380L	1501L-09-380R	TI-1501L-09-380R
9mm	400	1501L-09-400L	TI-1501L-09-400L	1501L-09-400R	TI-1501L-09-400R
9mm	420	1501L-09-420L	TI-1501L-09-420L	1501L-09-420R	TI-1501L-09-420R
9mm	440	1501L-09-440L	TI-1501L-09-440L	1501L-09-440R	TI-1501L-09-440R
10mm	320	1501L-10-320L	TI-1501L-10-320L	1501L-10-320R	TI-1501L-10-320R
10mm	340	1501L-10-340L	TI-1501L-10-340L	1501L-10-340R	TI-1501L-10-340R
10mm	360	1501L-10-360L	TI-1501L-10-360L	1501L-10-360R	TI-1501L-10-360R
10mm	380	1501L-10-380L	TI-1501L-10-380L	1501L-10-380R	TI-1501L-10-380R
10mm	400	1501L-10-400L	TI-1501L-10-400L	1501L-10-400R	TI-1501L-10-400R
10mm	420	1501L-10-420L	TI-1501L-10-420L	1501L-10-420R	TI-1501L-10-420R
10mm	440	1501L-10-440L	TI-1501L-10-440L	1501L-10-440R	TI-1501L-10-440R
11mm	320	1501L-11-320L	TI-1501L-11-320L	1501L-11-320R	TI-1501L-11-320R
11mm	340	1501L-11-340L	TI-1501L-11-340L	1501L-11-340R	TI-1501L-11-340R
11mm	360	1501L-11-360L	TI-1501L-11-360L	1501L-11-360R	TI-1501L-11-360R
11mm	380	1501L-11-380L	TI-1501L-11-380L	1501L-11-380R	TI-1501L-11-380R
11mm	400	1501L-11-400L	TI-1501L-11-400L	1501L-11-400R	TI-1501L-11-400R
11mm	420	1501L-11-420L	TI-1501L-11-420L	1501L-11-420R	TI-1501L-11-420R
11mm	440	1501L-11-440L	TI-1501L-11-440L	1501L-11-440R	TI-1501L-11-440R
12mm	320	1501L-12-320L	TI-1501L-12-320L	1501L-12-320R	TI-1501L-12-320R
12mm	340	1501L-12-340L	TI-1501L-12-340L	1501L-12-340R	TI-1501L-12-340R
12mm	360	1501L-12-360L	TI-1501L-12-360L	1501L-12-360R	TI-1501L-12-360R
12mm	380	1501L-12-380L	TI-1501L-12-380L	1501L-12-380R	TI-1501L-12-380R
12mm	400	1501L-12-400L	TI-1501L-12-400L	1501L-12-400R	TI-1501L-12-400R
12mm	420	1501L-12-420L	TI-1501L-12-420L	1501L-12-420R	TI-1501L-12-420R
12mm	440	1501L-12-440L	TI-1501L-12-440L	1501L-12-440R	TI-1501L-12-440R
13mm	320	1501L-13-320L	TI-1501L-13-320L	1501L-13-320R	TI-1501L-13-320R
13mm	340	1501L-13-340L	TI-1501L-13-340L	1501L-13-340R	TI-1501L-13-340R
13mm	360	1501L-13-360L	TI-1501L-13-360L	1501L-13-360R	TI-1501L-13-360R
13mm	380	1501L-13-380L	TI-1501L-13-380L	1501L-13-380R	TI-1501L-13-380R
13mm	400	1501L-13-400L	TI-1501L-13-400L	1501L-13-400R	TI-1501L-13-400R
13mm	420	1501L-13-420L	TI-1501L-13-420L	1501L-13-420R	TI-1501L-13-420R
13mm	440	1501L-13-440L	TI-1501L-13-440L	1501L-13-440R	TI-1501L-13-440R



### 130° Anti-Rotation Ga-mma Nail, SHORT

Ø Dia	Length (mm)	Stainless Steel	Titanium
9mm	180	<b>600S-09-180</b>	<b>TI-600S-09-180</b>
9mm	200	<b>600S-09-200</b>	<b>TI-600S-09-200</b>
9mm	220	<b>600S-09-220</b>	<b>TI-600S-09-220</b>
9mm	240	<b>600S-09-240</b>	<b>TI-600S-09-240</b>
10mm	180	<b>600S-10-180</b>	<b>TI-600S-10-180</b>
10mm	200	<b>600S-10-200</b>	<b>TI-600S-10-200</b>
10mm	220	<b>600S-10-220</b>	<b>TI-600S-10-220</b>
10mm	240	<b>600S-10-240</b>	<b>TI-600S-10-240</b>
11mm	180	<b>600S-11-180</b>	<b>TI-600S-11-180</b>
11mm	200	<b>600S-11-200</b>	<b>TI-600S-11-200</b>
11mm	220	<b>600S-11-220</b>	<b>TI-600S-11-220</b>
11mm	240	<b>600S-11-240</b>	<b>TI-600S-11-240</b>
12mm	180	<b>600S-12-180</b>	<b>TI-600S-12-180</b>
12mm	200	<b>600S-12-200</b>	<b>TI-600S-12-200</b>
12mm	220	<b>600S-12-220</b>	<b>TI-600S-12-220</b>
12mm	240	<b>600S-12-240</b>	<b>TI-600S-12-240</b>
13mm	180	<b>600S-13-180</b>	<b>TI-600S-13-180</b>
13mm	200	<b>600S-13-200</b>	<b>TI-600S-13-200</b>
13mm	220	<b>600S-13-220</b>	<b>TI-600S-13-220</b>
13mm	240	<b>600S-13-240</b>	<b>TI-600S-13-240</b>



### 130° Anti-Rotation Ga-mma Nail, LONG

Ø Dia	Length (mm)	Stainless Steel (Left)	Titanium (Left)	Stainless Steel (Right)	Titanium (Right)
9mm	320	600L-09-320L	TI-600L-09-320L	600L-09-320R	TI-600L-09-320R
9mm	340	600L-09-340L	TI-600L-09-340L	600L-09-340R	TI-600L-09-340R
9mm	360	600L-09-360L	TI-600L-09-360L	600L-09-360R	TI-600L-09-360R
9mm	380	600L-09-380L	TI-600L-09-380L	600L-09-380R	TI-600L-09-380R
9mm	400	600L-09-400L	TI-600L-09-400L	600L-09-400R	TI-600L-09-400R
9mm	420	600L-09-420L	TI-600L-09-420L	600L-09-420R	TI-600L-09-420R
9mm	440	600L-09-440L	TI-600L-09-440L	600L-09-440R	TI-600L-09-440R
10mm	320	600L-10-320L	TI-600L-10-320L	600L-10-320R	TI-600L-10-320R
10mm	340	600L-10-340L	TI-600L-10-340L	600L-10-340R	TI-600L-10-340R
10mm	360	600L-10-360L	TI-600L-10-360L	600L-10-360R	TI-600L-10-360R
10mm	380	600L-10-380L	TI-600L-10-380L	600L-10-380R	TI-600L-10-380R
10mm	400	600L-10-400L	TI-600L-10-400L	600L-10-400R	TI-600L-10-400R
10mm	420	600L-10-420L	TI-600L-10-420L	600L-10-420R	TI-600L-10-420R
10mm	440	600L-10-440L	TI-600L-10-440L	600L-10-440R	TI-600L-10-440R
11mm	320	600L-11-320L	TI-600L-11-320L	600L-11-320R	TI-600L-11-320R
11mm	340	600L-11-340L	TI-600L-11-340L	600L-11-340R	TI-600L-11-340R
11mm	360	600L-11-360L	TI-600L-11-360L	600L-11-360R	TI-600L-11-360R
11mm	380	600L-11-380L	TI-600L-11-380L	600L-11-380R	TI-600L-11-380R
11mm	400	600L-11-400L	TI-600L-11-400L	600L-11-400R	TI-600L-11-400R
11mm	420	600L-11-420L	TI-600L-11-420L	600L-11-420R	TI-600L-11-420R
11mm	440	600L-11-440L	TI-600L-11-440L	600L-11-440R	TI-600L-11-440R
12mm	320	600L-12-320L	TI-600L-12-320L	600L-12-320R	TI-600L-12-320R
12mm	340	600L-12-340L	TI-600L-12-340L	600L-12-340R	TI-600L-12-340R
12mm	360	600L-12-360L	TI-600L-12-360L	600L-12-360R	TI-600L-12-360R
12mm	380	600L-12-380L	TI-600L-12-380L	600L-12-380R	TI-600L-12-380R
12mm	400	600L-12-400L	TI-600L-12-400L	600L-12-400R	TI-600L-12-400R
12mm	420	600L-12-420L	TI-600L-12-420L	600L-12-420R	TI-600L-12-420R
12mm	440	600L-12-440L	TI-600L-12-440L	600L-12-440R	TI-600L-12-440R
13mm	320	600L-13-320L	TI-600L-13-320L	600L-13-320R	TI-600L-13-320R
13mm	340	600L-13-340L	TI-600L-13-340L	600L-13-340R	TI-600L-13-340R
13mm	360	600L-13-360L	TI-600L-13-360L	600L-13-360R	TI-600L-13-360R
13mm	380	600L-13-380L	TI-600L-13-380L	600L-13-380R	TI-600L-13-380R
13mm	400	600L-13-400L	TI-600L-13-400L	600L-13-400R	TI-600L-13-400R
13mm	420	600L-13-420L	TI-600L-13-420L	600L-13-420R	TI-600L-13-420R
13mm	440	600L-13-440L	TI-600L-13-440L	600L-13-440R	TI-600L-13-440R



## End Cap For Anti-Rotation Ga-mma Nail

Length (mm)	Stainless Steel	Titanium
0	<b>600-001E</b>	<b>TI-600-001E</b>
5	<b>600-005E</b>	<b>TI-600-005E</b>
10	<b>600-010E</b>	<b>TI-600-010E</b>
15	<b>600-015E</b>	<b>TI-600-015E</b>



## Inner Screw For Anti-Rotation Ga-mma Nail-Long (For Cephalic Screw)

Stainless Steel	Titanium
<b>600-0S</b>	<b>TI-600-0S</b>



## Inner Screw For Anti-Rotation Ga-mma Nail-Short (For Anti-Rotation Screw)

Stainless Steel	Titanium
<b>601-0S</b>	<b>TI-601-0S</b>



## Ø6.4mm Cannulated Anti-Rotation Screw

Length (mm)	Stainless Steel	Titanium
60	<b>600A-6.4-060</b>	<b>TI-600A-6.4-060</b>
65	<b>600A-6.4-065</b>	<b>TI-600A-6.4-065</b>
70	<b>600A-6.4-070</b>	<b>TI-600A-6.4-070</b>
75	<b>600A-6.4-075</b>	<b>TI-600A-6.4-075</b>
80	<b>600A-6.4-080</b>	<b>TI-600A-6.4-080</b>
85	<b>600A-6.4-085</b>	<b>TI-600A-6.4-085</b>
90	<b>600A-6.4-090</b>	<b>TI-600A-6.4-090</b>
95	<b>600A-6.4-095</b>	<b>TI-600A-6.4-095</b>
100	<b>600A-6.4-100</b>	<b>TI-600A-6.4-100</b>
105	<b>600A-6.4-105</b>	<b>TI-600A-6.4-105</b>
110	<b>600A-6.4-110</b>	<b>TI-600A-6.4-110</b>
115	<b>600A-6.4-115</b>	<b>TI-600A-6.4-115</b>
120	<b>600A-6.4-120</b>	<b>TI-600A-6.4-120</b>
125	<b>600A-6.4-125</b>	<b>TI-600A-6.4-125</b>
130	<b>600A-6.4-130</b>	<b>TI-600A-6.4-130</b>



## End Cap For Ø10.5mm Cephalic Screw For Ga-mma Nail



Stainless Steel	Titanium
<b>GM01.06</b>	<b>TI-GM01.06</b>

## Ø4.8mm Locking Bolt, Self-Tapping for Ga-mma Nail



## Ø10.5mm Cephalic Screw For Ga-mma Nail



Ø Dia	Length (mm)	Stainless Steel	Titanium
10.5mm	70	<b>600C-10.5-070</b>	<b>TI-600C-10.5-070</b>
10.5mm	75	<b>600C-10.5-075</b>	<b>TI-600C-10.5-075</b>
10.5mm	80	<b>600C-10.5-080</b>	<b>TI-600C-10.5-080</b>
10.5mm	85	<b>600C-10.5-085</b>	<b>TI-600C-10.5-085</b>
10.5mm	90	<b>600C-10.5-090</b>	<b>TI-600C-10.5-090</b>
10.5mm	95	<b>600C-10.5-095</b>	<b>TI-600C-10.5-095</b>
10.5mm	100	<b>600C-10.5-100</b>	<b>TI-600C-10.5-100</b>
10.5mm	105	<b>600C-10.5-105</b>	<b>TI-600C-10.5-105</b>
10.5mm	110	<b>600C-10.5-110</b>	<b>TI-600C-10.5-110</b>
10.5mm	115	<b>600C-10.5-115</b>	<b>TI-600C-10.5-115</b>
10.5mm	120	<b>600C-10.5-120</b>	<b>TI-600C-10.5-120</b>

Length (mm)	Stainless Steel	Titanium
26	<b>600-026</b>	<b>TI-600-026</b>
28	<b>600-028</b>	<b>TI-600-028</b>
30	<b>600-030</b>	<b>TI-600-030</b>
32	<b>600-032</b>	<b>TI-600-032</b>
34	<b>600-034</b>	<b>TI-600-034</b>
36	<b>600-036</b>	<b>TI-600-036</b>
38	<b>600-038</b>	<b>TI-600-038</b>
40	<b>600-040</b>	<b>TI-600-040</b>
42	<b>600-042</b>	<b>TI-600-042</b>
44	<b>600-044</b>	<b>TI-600-044</b>
46	<b>600-046</b>	<b>TI-600-046</b>
48	<b>600-048</b>	<b>TI-600-048</b>
50	<b>600-050</b>	<b>TI-600-050</b>
52	<b>600-052</b>	<b>TI-600-052</b>
54	<b>600-054</b>	<b>TI-600-054</b>
56	<b>600-056</b>	<b>TI-600-056</b>
58	<b>600-058</b>	<b>TI-600-058</b>
60	<b>600-060</b>	<b>TI-600-060</b>
65	<b>600-065</b>	<b>TI-600-065</b>
70	<b>600-070</b>	<b>TI-600-070</b>
75	<b>600-075</b>	<b>TI-600-075</b>
80	<b>600-080</b>	<b>TI-600-080</b>
85	<b>600-085</b>	<b>TI-600-085</b>
90	<b>600-090</b>	<b>TI-600-090</b>



Ga-mma Nail  
Instrument Set  
**Aluminium Targeting Device**

**1457-001** Radiographic Ruler for Short Gamma Nail



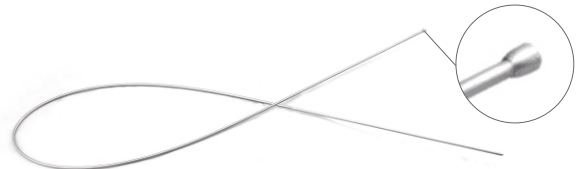
**1457-055** Entry Reamer Protection Sleeve 20/17mm for Gamma Nail



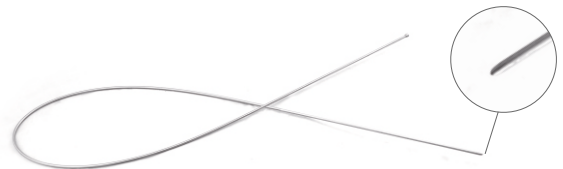
**1457-056** Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail



**1457-004** Guide Wire With Ball Tip Ø2.5/3.65mm x Length 680mm - Nitinol, for Gamma Nail



**1457-053** Guide Wire Without Ball Tip Ø2.5mm x Length 680mm - Nitinol, for Gamma Nail



**1457-005-10** Flexible Shaft with Reamer Ø10mm for Gamma Nail



**1457-006-11** Flexible Shaft with Reamer Ø11mm for Ga-mma Nail



**1457-007-12** Flexible Shaft with Reamer Ø12mm for Ga-mma Nail



**1457-008-13** Flexible Shaft with Reamer Ø13mm for Ga-mma Nail



**1457-009** T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail



**1457-010** Entry Reamer Ø16.5mm with Quick Coupling End for Ga-mma Nail



**1457-011** Cannulated Awl for Ga-mma Nail



**1457-012**

Tissue Protector for Ga-mma Nail



**1457-013**

Insertion Handle, Aluminium, for Ga-mma Nail



**1457-014**

Nail Holding Bolt for Aluminium Targeting Device for Ga-mma Nail



**1457-015**

Guide Wire Holder for Ga-mma Nail



**1457-016**

Insertion Connecting Rod for Ga-mma Nail



**1457-054**

Block for Insertion Connecting Rod - Ga-mma Nail



**1457-017**      Combination Wrench 11mm for Ga-mma Nail



**1457-018**      Insertion Hammer, Solid, for Ga-mma Nail



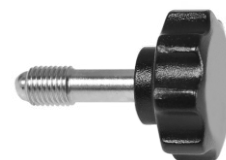
**1457-019-130**      130° Proximal Targeting Device, Aluminium, for Ga-mma Nail



**1457-019-125**      125° Proximal Targeting Device, Aluminium, for Ga-mma Nail



**7-062-01**      Locking Bolt for Aluminium Targeting Device - Ga-mma Nail



**1457-020**      Protection Sleeve 10/8.2mm for Ga-mma Nail



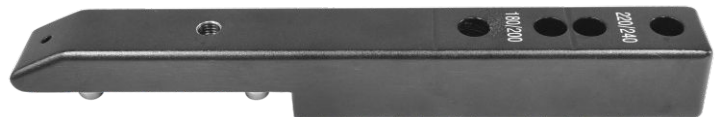
**1457-021** Trocar Ø8mm for Ga-mma Nail



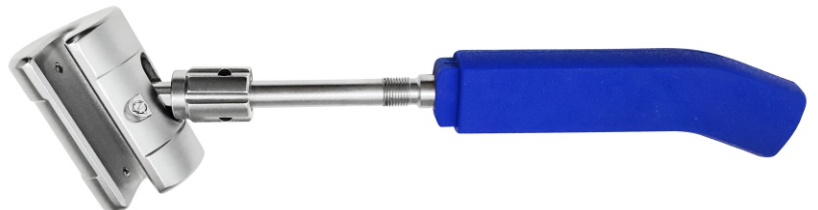
**1457-022-4.3** Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail



**1457-023** Short Aluminium Distal Targeting Device for Length upto 240mm - Ga-mma Nail



**1457-024** Sliding Hammer, Slotted, for Ga-mma Nail



**1457-025** Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail



**1457-026** Allen Key, Hex 3mm for Ga-mma Nail



**1457-027** Universal Screwdriver, Hex 7mm for Ga-mma Nail



**1457-028** Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail



**1457-029** Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail



**1457-030** Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-031** Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-032** Inserter for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail



**1457-033** Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail



**1457-034** Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail



**1457-035** Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-036** Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**7-007-08** Stopper for Cannulated Reamer - Ga-mma Nail



**1457-037** Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail





**1457-038** Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-039** Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-040** Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-041** Inserter for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-042** Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**7-007-09** Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail



**1457-043** Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail



**1457-044-2.5** Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw



**1457-045-3.0** Guide Wire with Threaded Tip Ø3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw Ø10.5mm



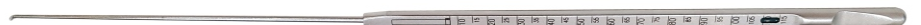
**1457-046** Extraction Hammering Rod for Ga-mma Nail



**1457-047** Depth Gauge measuring upto 100mm for Ga-mma Nail



**1457-048** Depth Gauge measuring upto 115mm for Ga-mma Nail



**1457-049**      Stylet, Ø3mm, for Ga-mma Nail



**1457-050**      Compression Screw for Ga-mma Nail



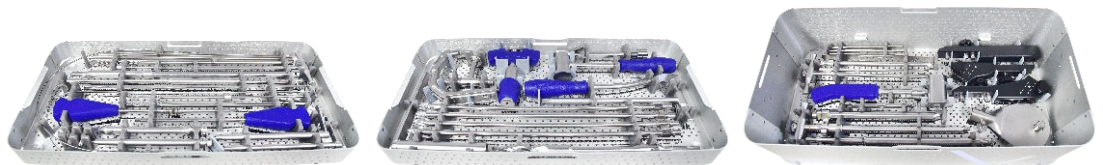
**1457-051-4.3**      Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail



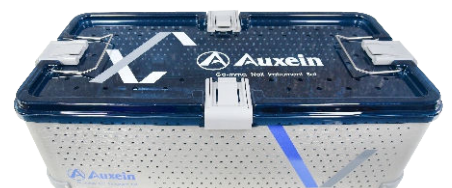
**1457-052**      Stopper for Drill Bit Ø4.3mm - Ga-mma Nail



**1457-00T**      Instrument Trays for Ga-mma Nailing Instrument Set, Aluminium Targeting Device



**1457-00B**      Container with PPSU Lid for Ga-mma Nailing Instrument Set, Aluminium Targeting Device



### *Optional Instruments*

**1457-004S**

Guide Wire With Ball Tip Ø2.5/3.65mm x Length 680mm - Stainless Steel, for Ga-mma Nail

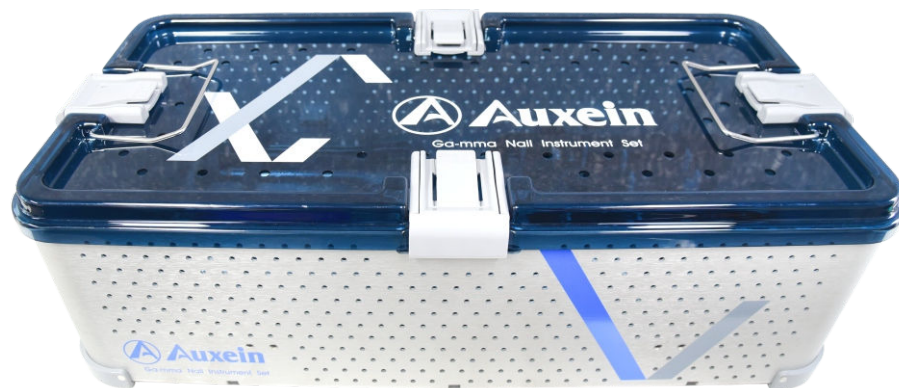
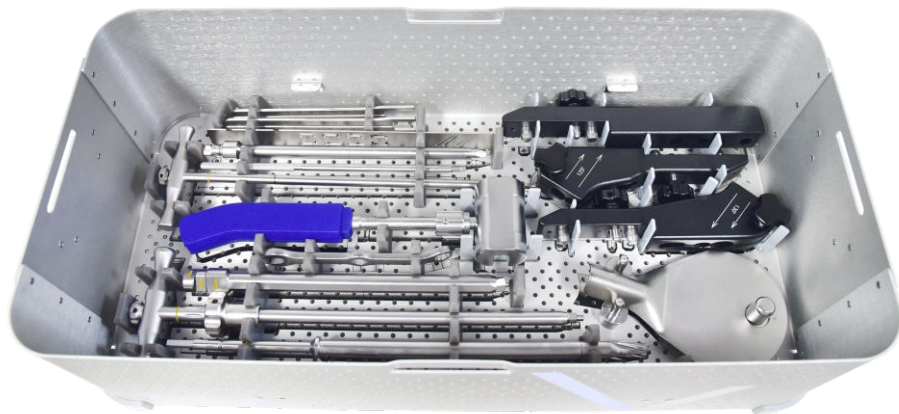
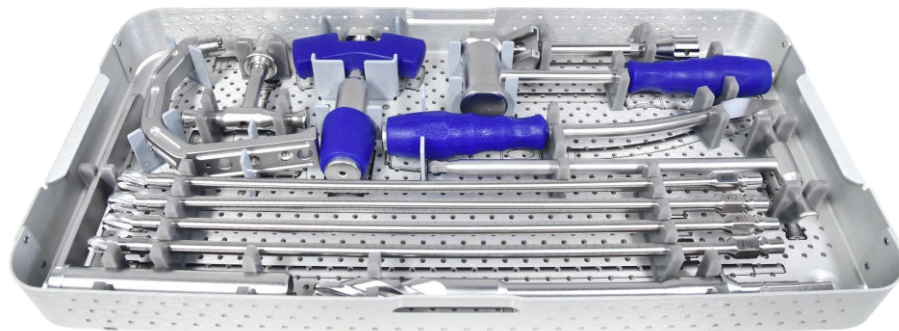
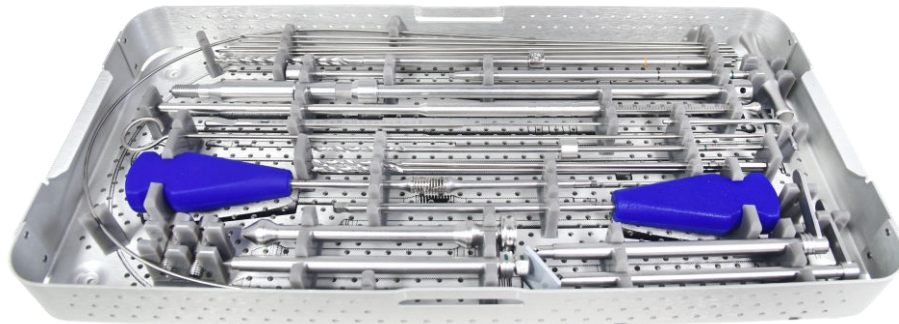


**1457-053S**

Guide Wire Without Ball Tip Ø2.5mm x Length 680mm - Stainless Steel, for Ga-mma Nail



**1457-000S** Ga-mma Nailing Instrument Set, Aluminium Targeting Device



## 1457-000S Ga-mma Nailing Instrument Set, Aluminium Targeting Device

Code	Set Consisting of	Units
1457-001	Radiographic Ruler for Short Ga-mma Nail	1
1457-055	Entry Reamer Protection Sleeve 20/17mm for Gamma Nail	1
1457-056	Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail	1
1457-004	Guide Wire With Ball Tip Ø2.5/3.65mm x Length 680mm - Nitinol, for Ga-mma Nail	1
1457-053	Guide Wire Without Ball Tip Ø2.5mm x Length 680mm - Nitinol, for Ga-mma Nail	1
1457-005-10	Flexible Shaft with Reamer Ø10mm for Ga-mma Nail	1
1457-006-11	Flexible Shaft with Reamer Ø11mm for Ga-mma Nail	1
1457-007-12	Flexible Shaft with Reamer Ø12mm for Ga-mma Nail	1
1457-008-13	Flexible Shaft with Reamer Ø13mm for Ga-mma Nail	1
1457-009	T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail	1
1457-010	Entry Reamer Ø16.5mm with Quick Coupling End for Ga-mma Nail	1
1457-011	Cannulated Awl for Ga-mma Nail	1
1457-012	Tissue Protector for Ga-mma Nail	1
1457-013	Insertion Handle, Aluminium, for Ga-mma Nail	1
1457-014	Nail Holding Bolt for Aluminium Targeting Device for Ga-mma Nail	2
1457-015	Guide Wire Holder for Ga-mma Nail	1
1457-016	Insertion Connecting Rod for Ga-mma Nail	1
1457-054	Block for Insertion Connecting Rod - Ga-mma Nail	1
1457-017	Combination Wrench 11mm for Ga-mma Nail	1
1457-018	Insertion Hammer, Solid, for Ga-mma Nail	1
1457-019-130	130° Proximal Targeting Device, Aluminium, for Ga-mma Nail	1
1457-019-125	125° Proximal Targeting Device, Aluminium, for Ga-mma Nail	1
7-062-01	Locking Bolt for Aluminium Targeting Device - Ga-mma Nail	3
1457-020	Protection Sleeve 10/8.2mm for Ga-mma Nail	2
1457-021	Trocar Ø8mm for Ga-mma Nail	1
1457-022-4.3	Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail	2
1457-023	Short Aluminium Distal Targeting Device for Length upto 240mm - Ga-mma Nail	1
1457-024	Sliding Hammer, Slotted, for Ga-mma Nail	1
1457-025	Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail	1
1457-026	Allen Key, Hex 3mm for Ga-mma Nail	1
1457-027	Universal Screwdriver, Hex 7mm for Ga-mma Nail	1
1457-028	Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail	1
1457-029	Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail	1
1457-030	Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
1457-031	Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
1457-032	Insertor for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail	1

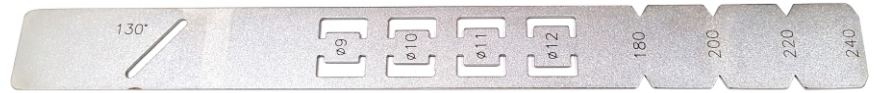
Code	Set Consisting of	Units
<b>1457-033</b>	Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail	1
<b>1457-034</b>	Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail	1
<b>1457-035</b>	Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>1457-036</b>	Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>7-007-08</b>	Stopper for Cannulated Reamer - Ga-mma Nail	1
<b>1457-037</b>	Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-038</b>	Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-039</b>	Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-040</b>	Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-041</b>	Insertor for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-042</b>	Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>7-007-09</b>	Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail	1
<b>1457-043</b>	Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail	1
<b>1457-044-2.5</b>	Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw	5
<b>1457-045-3.0</b>	Guide Wire with Threaded Tip Ø3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw Ø10.5mm	5
<b>1457-046</b>	Extraction Hammering Rod for Ga-mma Nail	1
<b>1457-047</b>	Depth Gauge measuring upto 100mm for Ga-mma Nail	1
<b>1457-048</b>	Depth Gauge measuring upto 115mm for Ga-mma Nail	1
<b>1457-049</b>	Stylet, Ø3mm, for Ga-mma Nail	1
<b>1457-050</b>	Compression Screw for Ga-mma Nail	1
<b>1457-051-4.3</b>	Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail	3
<b>1457-052</b>	Stopper for Drill Bit Ø4.3mm - Ga-mma Nail	1
<b>1457-00T</b>	Instrument Trays for Ga-mma Nailing Instrument Set, Aluminium Targeting Device	3
<b>1457-00B</b>	Container with PPSU Lid for Ga-mma Nailing Instrument Set, Aluminium Targeting Device	1

# Ga-mma Nail Instrument Set

**Peek**



**1457-001** Radiographic Ruler for Short Gamma Nail



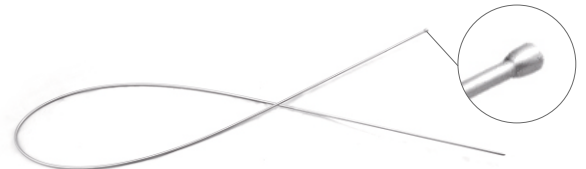
**1457-055** Entry Reamer Protection Sleeve 20/17mm for Gamma Nail



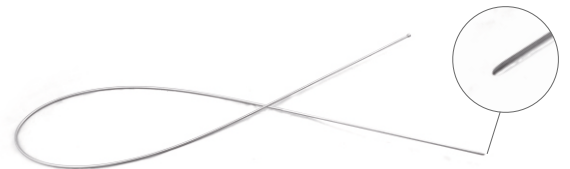
**1457-056** Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail



**1457-004** Guide Wire With Ball Tip  $\varnothing 2.5/3.65$ mm x Length 680mm - Nitinol, for Gamma Nail



**1457-053** Guide Wire Without Ball Tip  $\varnothing 2.5$ mm x Length 680mm - Nitinol, for Gamma Nail



**1457-005-10** Flexible Shaft with Reamer  $\varnothing 10$ mm for Gamma Nail



**1457-006-11** Flexible Shaft with Reamer  $\varnothing$ 11mm for Ga-mma Nail



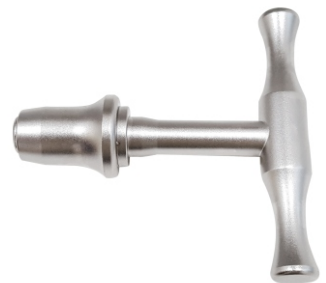
**1457-007-12** Flexible Shaft with Reamer  $\varnothing$ 12mm for Ga-mma Nail



**1457-008-13** Flexible Shaft with Reamer  $\varnothing$ 13mm for Ga-mma Nail



**1457-009** T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail



**1457-010** Entry Reamer  $\varnothing$ 16.5mm with Quick Coupling End for Ga-mma Nail



**1457-011** Cannulated Awl for Ga-mma Nail



**1457-012**

Tissue Protector for Ga-mma Nail



**7-007-01**

Insertion Handle, Carbon PEEK, for Ga-mma Nail



**7-007-10**

Nail Holding Bolt for Insertion Handle, Carbon Peek, for Ga-mma Nail



**1457-015**

Guide Wire Holder for Ga-mma Nail



**1457-016**

Insertion Connecting Rod for Ga-mma Nail



**1457-017**

Combination Wrench 11mm for Ga-mma Nail



**1457-018** Insertion Hammer, Solid, for Ga-mma Nail



**7-007-02** 130° Proximal Targeting Device, Carbon PEEK, for Ga-mma Nail



**7-007-07** Locking Bolt for Carbon PEEK Targeting Device - Ga-mma Nail



**7-007-03** 125° Proximal Targeting Device, Carbon PEEK, for Ga-mma Nail



**1457-020** Protection Sleeve 10/8.2mm for Ga-mma Nail



**1457-021** Trocar Ø8mm for Ga-mma Nail



**1457-022-4.3** Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail



**7-007-04** Short Carbon PEEK Distal Targeting Device for Length upto 240mm - Ga-mma Nail



**1457-024** Sliding Hammer, Slotted, for Ga-mma Nail



**1457-025** Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail



**1457-026** Allen Key, Hex 3mm for Ga-mma Nail



**1457-027** Universal Screwdriver, Hex 7mm for Ga-mma Nail



**1457-028** Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail



**1457-029** Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail



**1457-030** Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-031** Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-032** Inserter for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail



**1457-033** Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail



**1457-034** Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail



**1457-035** Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-036** Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**7-007-08** Stopper for Cannulated Reamer - Ga-mma Nail



**1457-037** Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-038** Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-039** Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-040** Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-041** Inserter for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-042** Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**7-007-09** Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail



**1457-043** Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail





**1457-044-2.5** Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw



**1457-045-3.0** Guide Wire with Threaded Tip Ø3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw Ø10.5mm



**1457-046** Extraction Hammering Rod for Ga-mma Nail



**1457-047** Depth Gauge measuring upto 100mm for Ga-mma Nail



**1457-048** Depth Gauge measuring upto 115mm for Ga-mma Nail



**1457-049** Stylet, Ø3mm, for Ga-mma Nail



**1457-050**      Compression Screw for Ga-mma Nail



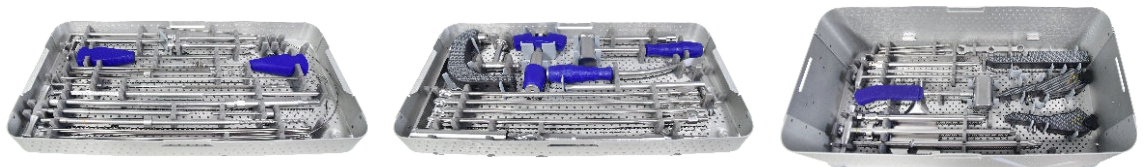
**1457-051-4.3**      Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail



**1457-052**      Stopper for Drill Bit Ø4.3mm - Ga-mma Nail



**7-007-05**      Instrument Trays for Ga-mma Nailing Instrument Set (PEEK)

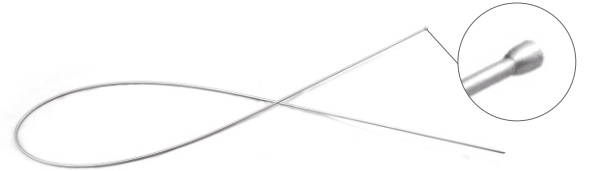


**7-007-06**      Container with PPSU Lid for Ga-mma Nailing Instrument Set (PEEK)

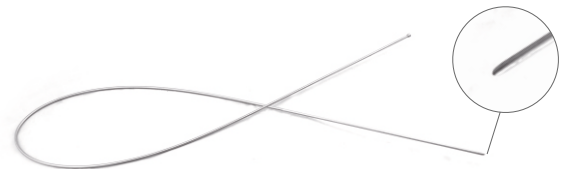


## Optional Instruments

**1457-004S** Guide Wire With Ball Tip Ø2.5/3.65mm x Length 680mm - Stainless Steel, for Gamma Nail



**1457-053S** Guide Wire Without Ball Tip Ø2.5mm x Length 680mm - Stainless Steel, for Gamma Nail



7-007 Ga-mma Nailing Instrument Set (PEEK)



## 7-007 Ga-mma Nailing Instrument Set (PEEK)

Code	Set Consisting of	Units
1457-001	Radiographic Ruler for Short Ga-mma Nail	1
1457-055	Entry Reamer Protection Sleeve 20/17mm for Gamma Nail	1
1457-056	Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail	1
1457-004	Guide Wire With Ball Tip Ø2.5/3.65mm x Length 680mm - Nitinol, for Ga-mma Nail	1
1457-053	Guide Wire Without Ball Tip Ø2.5mm x Length 680mm - Nitinol, for Ga-mma Nail	1
1457-005-10	Flexible Shaft with Reamer Ø10mm for Ga-mma Nail	1
1457-006-11	Flexible Shaft with Reamer Ø11mm for Ga-mma Nail	1
1457-007-12	Flexible Shaft with Reamer Ø12mm for Ga-mma Nail	1
1457-008-13	Flexible Shaft with Reamer Ø13mm for Ga-mma Nail	1
1457-009	T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail	1
1457-010	Entry Reamer Ø16.5mm with Quick Coupling End for Ga-mma Nail	1
1457-011	Cannulated Awl for Ga-mma Nail	1
1457-012	Tissue Protector for Ga-mma Nail	1
7-007-01	Insertion Handle, Carbon PEEK, for Ga-mma Nail	1
7-007-10	Nail Holding Bolt for Insertion Handle, Carbon Peek, for Ga-mma Nail	2
1457-015	Guide Wire Holder for Ga-mma Nail	1
1457-016	Insertion Connecting Rod for Ga-mma Nail	1
1457-017	Combination Wrench 11mm for Ga-mma Nail	1
1457-018	Insertion Hammer, Solid, for Ga-mma Nail	1
7-007-02	130° Proximal Targeting Device, Carbon PEEK, for Ga-mma Nail	1
7-007-07	Locking Bolt for Carbon PEEK Targeting Device - Ga-mma Nail	3
7-007-03	125° Proximal Targeting Device, Carbon PEEK, for Ga-mma Nail	1
1457-020	Protection Sleeve 10/8.2mm for Ga-mma Nail	2
1457-021	Trocar Ø8mm for Ga-mma Nail	1
1457-022-4.3	Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail	2
7-007-04	Short Carbon PEEK Distal Targeting Device for Length upto 240mm - Ga-mma Nail	1
1457-024	Sliding Hammer, Slotted, for Ga-mma Nail	1
1457-025	Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail	1
1457-026	Allen Key, Hex 3mm for Ga-mma Nail	1
1457-027	Universal Screwdriver, Hex 7mm for Ga-mma Nail	1
1457-028	Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail	1
1457-029	Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail	1
1457-030	Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
1457-031	Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
1457-032	Insertor for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail	1
1457-033	Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail	1

Code	Set Consisting of	Units
<b>1457-034</b>	Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail	1
<b>1457-035</b>	Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>1457-036</b>	Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>7-007-08</b>	Stopper for Cannulated Reamer - Ga-mma Nail	1
<b>1457-037</b>	Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-038</b>	Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-039</b>	Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-040</b>	Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-041</b>	Insertor for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-042</b>	Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>7-007-09</b>	Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail	1
<b>1457-043</b>	Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail	1
<b>1457-044-2.5</b>	Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw	5
<b>1457-045-3.0</b>	Guide Wire with Threaded Tip Ø3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw Ø10.5mm	5
<b>1457-046</b>	Extraction Hammering Rod for Ga-mma Nail	1
<b>1457-047</b>	Depth Gauge measuring upto 100mm for Ga-mma Nail	1
<b>1457-048</b>	Depth Gauge measuring upto 115mm for Ga-mma Nail	1
<b>1457-049</b>	Styler, Ø3mm, for Ga-mma Nail	1
<b>1457-050</b>	Compression Screw for Ga-mma Nail	1
<b>1457-051-4.3</b>	Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail	3
<b>1457-052</b>	Stopper for Drill Bit Ø4.3mm - Ga-mma Nail	1
<b>7-007-05</b>	Instrument Trays for Ga-mma Nailing Instrument Set (PEEK)	3
<b>7-007-06</b>	Container with PPSU Lid for Ga-mma Nailing Instrument Set (PEEK)	1

# Ga-mma Nail Instrument Set

## **Distal Targeting Device**

**1457-001** Radiographic Ruler for Short Gamma Nail



**1457-055** Entry Reamer Protection Sleeve 20/17mm for Gamma Nail



**1457-056** Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail



**1457-005-10** Flexible Shaft with Reamer Ø10mm for Gamma Nail



**1457-006-11** Flexible Shaft with Reamer Ø11mm for Gamma Nail



**1457-007-12** Flexible Shaft with Reamer Ø12mm for Gamma Nail





**1457-008-13** Flexible Shaft with Reamer  $\varnothing$ 13mm for Ga-mma Nail



**1457-009** T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail



**1457-010** Entry Reamer  $\varnothing$ 16.5mm with Quick Coupling End for Ga-mma Nail



**1457-011** Cannulated Awl for Ga-mma Nail



**1457-012** Tissue Protector for Ga-mma Nail



**1457-013** Insertion Handle, Aluminium, for Ga-mma Nail



**1457-014** Nail Holding Bolt for Aluminium Targeting Device for Ga-mma Nail



**1457-015** Guide Wire Holder for Ga-mma Nail



**1457-016** Insertion Connecting Rod for Ga-mma Nail



**1457-054** Block for Insertion Connecting Rod - Ga-mma Nail



**1457-017** Combination Wrench 11mm for Ga-mma Nail



**1457-018** Insertion Hammer, Solid, for Ga-mma Nail



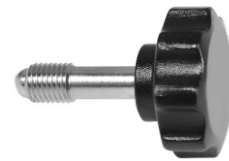
**1457-019-130** 130° Proximal Targeting Device, Aluminium, for Ga-mma Nail



**1457-019-125** 125° Proximal Targeting Device, Aluminium, for Ga-mma Nail



**7-062-01** Locking Bolt for Aluminium Targeting Device - Ga-mma Nail



**1457-020** Protection Sleeve 10/8.2mm for Ga-mma Nail



**1457-021** Trocar Ø8mm for Ga-mma Nail



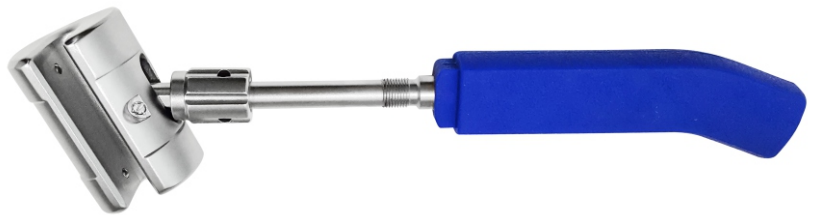
**1457-022-4.3** Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail



**1457-023** Short Aluminium Distal Targeting Device for Length upto 240mm - Ga-mma Nail



**1457-024** Sliding Hammer, Slotted, for Ga-mma Nail



**1457-025** Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail



**1457-026** Allen Key, Hex 3mm for Ga-mma Nail



**1457-027** Universal Screwdriver, Hex 7mm for Ga-mma Nail



**1457-028** Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail



**1457-029** Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail



**1457-030** Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-031** Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail



**1457-032** Inserter for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail



**1457-033** Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail



**1457-034** Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail



**1457-035** Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Gamma Nail



**1457-036** Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Gamma Nail



**7-007-08** Stopper for Cannulated Reamer - Gamma Nail



**1457-037** Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Gamma Nail



**1457-038** Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Gamma Nail



**1457-039** Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Gamma Nail



**1457-040** Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



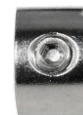
**1457-041** Inserter for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**1457-042** Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail



**7-007-09** Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail



**1457-043** Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail



**1457-044-2.5** Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw



**1457-045-3.0** Guide Wire with Threaded Tip  $\varnothing$ 3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw  $\varnothing$ 10.5mm



**1457-046** Extraction Hammering Rod for Ga-mma Nail



**1457-047** Depth Gauge measuring upto 100mm for Ga-mma Nail



**1457-048** Depth Gauge measuring upto 115mm for Ga-mma Nail



**1457-049** Stylet,  $\varnothing$ 3mm, for Ga-mma Nail



**1457-050** Compression Screw for Ga-mma Nail





**1457-051-4.3** Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail



**1457-052** Stopper for Drill Bit Ø4.3mm - Ga-mma Nail



**7-008-01** Ø5.2mm T-Handle Drill Bit with Flat End for Ga-mma Nail



**7-008-02** Drill Bit Plain Shank/Jacob Chuck End Ø5.2mm x Length 250mm for Ga-mma Nail



**7-008-03** Radiographic Ruler For Long Ga-mma Nail



**7-008-04** Distal Targeting Device for Ga-mma Nail



**7-008-05** Allen Key, Hex 5mm for Ga-mma Nail



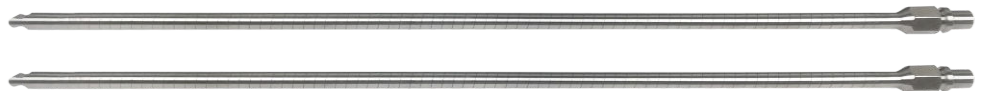
**7-008-06** Stabilizing Device (Ø9, Ø10, Ø11) for Ga-mma Nail



**7-008-34** Stabilizing Device (Ø12, Ø13) for Ga-mma Nail



**7-008-07** Flexible Reamer Shaft (AO Connection) for Ga-mma Nail



**7-008-08** Outer Drill Sleeve 10/8.1mm for Distal Targeting Device, for Ga-mma Nail



**7-008-09** Trocar Ø8mm for Long Ga-mma Nail



**7-008-10** Drill Sleeve 8.1/5.2mm for Positioning Rod, for Ga-mma Nail



**7-008-11** Positioning Rod 8.1/5.2mm for Ga-mma Nail



**7-008-12** Reduction Rod for Long Ga-mma Nail



**7-008-13** Proximal Aiming Bar for Long Ga-mma Nail



**7-008-14** Distal Aiming Bar for Long Ga-mma Nail



### Reamer Head

Code	Dia	Code	Dia
<b>7-008-15</b>	Ø8.5mm	<b>7-008-21</b>	Ø11.5mm
<b>7-008-16</b>	Ø9mm	<b>7-008-22</b>	Ø12mm
<b>7-008-17</b>	Ø9.5mm	<b>7-008-23</b>	Ø12.5mm
<b>7-008-18</b>	Ø10mm	<b>7-008-24</b>	Ø13mm
<b>7-008-19</b>	Ø10.5mm	<b>7-008-25</b>	Ø13.5mm
<b>7-008-20</b>	Ø11mm	<b>7-008-26</b>	Ø14mm



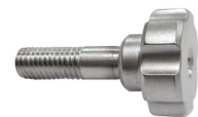
**7-008-27** Locking Bolt for Distal Aiming Bar - Gamma Nail



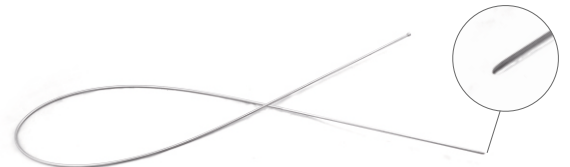
**7-008-28** Locking Bolt for Proximal Aiming Bar - Gamma Nail



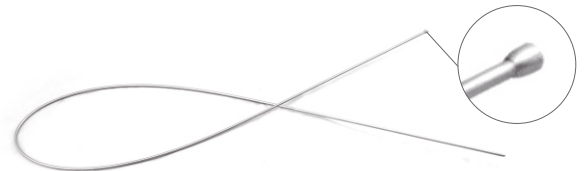
**7-008-29** Distal Bolt, Hex 5mm for Distal Targeting Device - Gamma Nail



**7-008-32** Guide Wire without Ball Tip  $\text{Ø}3.65\text{mm}$  x Length 1000mm - Nitinol, for Gamma Nail



**7-008-33** Guide Wire with Ball Tip  $\text{Ø}2.5/3.65\text{mm}$  x Length 1000mm - Nitinol, for Gamma Nail



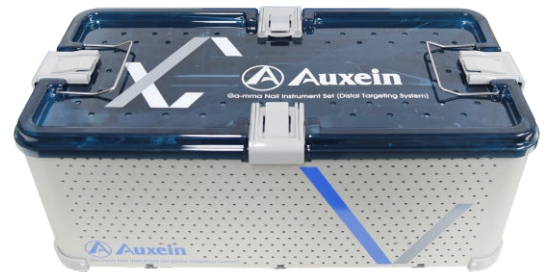
**7-008-30**

Instrument Trays for Ga-mma Nailing instrument set, Distal Targeting Device



**7-008-31**

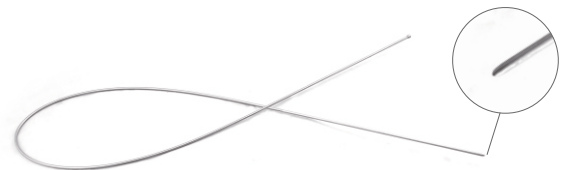
Container with PPSU Lid for Ga-mma Nailing instrument set, Distal Targeting Device



**Optional Instruments**

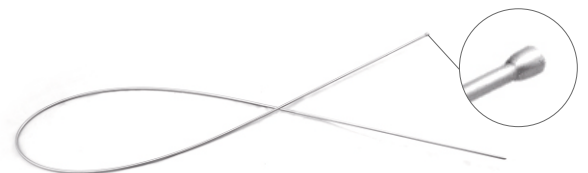
**7-008-32S**

Guide Wire without Ball Tip Ø3.65mm x Length 1000mm - Stainless Steel, for Ga-mma Nail



**7-008-33S**

Guide Wire with Ball Tip Ø2.5/3.65mm x Length 1000mm - Stainless Steel, for Ga-mma Nail



**7-008** Ga-mma Nailing Instrument Set, Distal Targeting Device



## 7-008 Ga-mma Nailing Instrument Set, Distal Targeting Device

Code	Set Consisting of	Units
<b>1457-001</b>	Radiographic Ruler for Short Ga-mma Nail	1
<b>1457-055</b>	Entry Reamer Protection Sleeve 20/17mm for Gamma Nail	1
<b>1457-056</b>	Entry Reamer Guide Wire Sleeve 17/3.2mm for Gamma Nail	1
<b>1457-005-10</b>	Flexible Shaft with Reamer Ø10mm for Ga-mma Nail	1
<b>1457-006-11</b>	Flexible Shaft with Reamer Ø11mm for Ga-mma Nail	1
<b>1457-007-12</b>	Flexible Shaft with Reamer Ø12mm for Ga-mma Nail	1
<b>1457-008-13</b>	Flexible Shaft with Reamer Ø13mm for Ga-mma Nail	1
<b>1457-009</b>	T Handle with Quick Coupling for Entry Reamer - Ga-mma Nail	1
<b>1457-010</b>	Entry Reamer Ø16.5mm with Quick Coupling End for Ga-mma Nail	1
<b>1457-011</b>	Cannulated Awl for Ga-mma Nail	1
<b>1457-012</b>	Tissue Protector for Ga-mma Nail	1
<b>1457-013</b>	Insertion Handle, Aluminium, for Ga-mma Nail	1
<b>1457-014</b>	Nail Holding Bolt for Aluminium Targeting Device for Ga-mma Nail	2
<b>1457-015</b>	Guide Wire Holder for Ga-mma Nail	1
<b>1457-016</b>	Insertion Connecting Rod for Ga-mma Nail	1
<b>1457-054</b>	Block for Insertion Connecting Rod - Ga-mma Nail	1
<b>1457-017</b>	Combination Wrench 11mm for Ga-mma Nail	1
<b>1457-018</b>	Insertion Hammer, Solid, for Ga-mma Nail	1
<b>1457-019-130</b>	130° Proximal Targeting Device, Aluminium, for Ga-mma Nail	1
<b>1457-019-125</b>	125° Proximal Targeting Device, Aluminium, for Ga-mma Nail	1
<b>7-062-01</b>	Locking Bolt for Aluminium Targeting Device - Ga-mma Nail	3
<b>1457-020</b>	Protection Sleeve 10/8.2mm for Ga-mma Nail	2
<b>1457-021</b>	Trocar Ø8mm for Ga-mma Nail	1
<b>1457-022-4.3</b>	Drill Sleeve 8/4.3mm for Drill Bit Ø4.3mm - Ga-mma Nail	2
<b>1457-023</b>	Short Aluminium Distal Targeting Device for Length upto 240mm - Ga-mma Nail	1
<b>1457-024</b>	Sliding Hammer, Slotted, for Ga-mma Nail	1
<b>1457-025</b>	Flexible Screwdriver, Hex 3.5mm for Inner Screw - Ga-mma Nail	1
<b>1457-026</b>	Allen Key, Hex 3mm for Ga-mma Nail	1
<b>1457-027</b>	Universal Screwdriver, Hex 7mm for Ga-mma Nail	1
<b>1457-028</b>	Protection Sleeve 14/11.2mm for Cephalic Screw - Ga-mma Nail	1
<b>1457-029</b>	Trocar Sleeve 11.2/3.2mm for Cephalic Screw - Ga-mma Nail	1
<b>1457-030</b>	Trocar Ø3.2mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>1457-031</b>	Measuring Device upto 130mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>1457-032</b>	Insertor for Cephalic Screw Ø10.5mm & End Cap - Ga-mma Nail	1
<b>1457-033</b>	Screwdriver with T-Handle, Hex 3.5mm, for Ga-mma Nail	1
<b>1457-034</b>	Universal Screwdriver with T-Handle, Hex 8mm, for Ga-mma Nail	1
<b>1457-035</b>	Proximal Cortex Drill Ø10mm with Quick Coupling End for Cephalic Screw Ø10.5mm - Ga-mma Nail	1

Code	Set Consisting of	Units
<b>1457-036</b>	Cannulated Reamer, Ø10.5mm for Cephalic Screw Ø10.5mm - Ga-mma Nail	1
<b>7-007-08</b>	Stopper for Cannulated Reamer - Ga-mma Nail	1
<b>1457-037</b>	Measuring Device upto 130mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-038</b>	Protection Sleeve 10/8.2mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-039</b>	Trocar Sleeve 8.1/2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-040</b>	Trocar Ø2.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-041</b>	Inserter for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>1457-042</b>	Tapered Drill 6.4/4.5mm for Ø6.4mm Cannulated Anti -Rotation Screw, for Ga-mma Nail	1
<b>7-007-09</b>	Stopper for Tapered Drill 6.4/4.5mm - Ga-mma Nail	1
<b>1457-043</b>	Holding Driver, Hex 3.5 for Inner Screw, for Ga-mma Nail	1
<b>1457-044-2.5</b>	Guide Wire Ø2.5mm x Length 380mm for Ø6.4mm Cannulated Anti -Rotation Screw	5
<b>1457-045-3.0</b>	Guide Wire with Threaded Tip Ø3.0mm x Thread Length 12mm x Length 400mm for Cephalic Screw Ø10.5mm	5
<b>1457-046</b>	Extraction Hammering Rod for Ga-mma Nail	1
<b>1457-047</b>	Depth Gauge measuring upto 100mm for Ga-mma Nail	1
<b>1457-048</b>	Depth Gauge measuring upto 115mm for Ga-mma Nail	1
<b>1457-049</b>	Styler, Ø3mm, for Ga-mma Nail	1
<b>1457-050</b>	Compression Screw for Ga-mma Nail	1
<b>1457-051-4.3</b>	Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Ga-mma Nail	3
<b>1457-052</b>	Stopper for Drill Bit Ø4.3mm - Ga-mma Nail	1
<b>7-008-01</b>	Ø5.2mm T-Handle Drill Bit with Flat End for Ga-mma Nail	1
<b>7-008-02</b>	Drill Bit Plain Shank/Jacob Chuck End Ø5.2mm x Length 250mm for Ga-mma Nail	1
<b>7-008-03</b>	Radiographic Ruler For Long Ga-mma Nail	1
<b>7-008-04</b>	Distal Targeting Device for Ga-mma Nail	1
<b>7-008-05</b>	Allen Key, Hex 5mm for Ga-mma Nail	1
<b>7-008-06</b>	Stabilizing Device (Ø9, Ø10, Ø11) for Ga-mma Nail	1
<b>7-008-34</b>	Stabilizing Device (Ø12, Ø13) for Ga-mma Nail	1
<b>7-008-07</b>	Flexible Reamer Shaft (AO Connection) for Ga-mma Nail	2
<b>7-008-08</b>	Outer Drill Sleeve 10/8.1mm for Distal Targeting Device, for Ga-mma Nail	1
<b>7-008-09</b>	Trocar Ø8mm for Long Ga-mma Nail	1
<b>7-008-10</b>	Drill Sleeve 8.1/5.2mm for Positioning Rod, for Ga-mma Nail	1
<b>7-008-11</b>	Positioning Rod 8.1/5.2mm for Ga-mma Nail	1
<b>7-008-12</b>	Reduction Rod for Long Ga-mma Nail	1
<b>7-008-13</b>	Proximal Aiming Bar for Long Ga-mma Nail	1
<b>7-008-14</b>	Distal Aiming Bar for Long Ga-mma Nail	1
<b>7-008-15</b>	Reamer Head, Ø8.5mm for Ga-mma Nail	1
<b>7-008-16</b>	Reamer Head, Ø9.0mm for Ga-mma Nail	1
<b>7-008-17</b>	Reamer Head, Ø9.5mm for Ga-mma Nail	1



Code	Set Consisting of	Units
<b>7-008-18</b>	Reamer Head, Ø10.0mm for Ga-mma Nail	1
<b>7-008-19</b>	Reamer Head, Ø10.5mm for Ga-mma Nail	1
<b>7-008-20</b>	Reamer Head, Ø11.0mm for Ga-mma Nail	1
<b>7-008-21</b>	Reamer Head, Ø11.5mm for Ga-mma Nail	1
<b>7-008-22</b>	Reamer Head, Ø12.0mm for Ga-mma Nail	1
<b>7-008-23</b>	Reamer Head, Ø12.5mm for Ga-mma Nail	1
<b>7-008-24</b>	Reamer Head, Ø13.0mm for Ga-mma Nail	1
<b>7-008-25</b>	Reamer Head, Ø13.5mm for Ga-mma Nail	1
<b>7-008-26</b>	Reamer Head, Ø14.0mm for Ga-mma Nail	1
<b>7-008-27</b>	Locking Bolt for Distal Aiming Bar - Ga-mma Nail	1
<b>7-008-28</b>	Locking Bolt for Proximal Aiming Bar - Ga-mma Nail	2
<b>7-008-29</b>	Distal Bolt, Hex 5mm for Distal Targeting Device - Ga-mma Nail	1
<b>7-008-32</b>	Guide Wire without Ball Tip Ø3.65mm x Length 1000mm - Nitinol, for Ga-mma Nail	1
<b>7-008-33</b>	Guide Wire with Ball Tip Ø2.5/3.65mm x Length 1000mm - Nitinol, for Ga-mma Nail	1
<b>7-008-30</b>	Instrument Trays for Ga-mma Nailing instrument set, Distal Targeting Device	4
<b>7-008-31</b>	Container with PPSU Lid for Ga-mma Nailing instrument set, Distal Targeting Device	1



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