

EXPERT FEMUR NAILING SYSTEM

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edition
2022

 **Auxein**[®]

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 •

Orthopaedic Implants

INTRODUCTION

The Expert Femur Nail enables the surgeon to stabilize subtrochanteric femur fractures, ipsilateral neck/shaft fractures, femur shaft fractures, impending pathological fractures, malunions and nonunions.

LOCKING OPTIONS

Standard Locking

The Expert Femur Nail with standard locking is indicated for fractures in femur shaft (except subtrochanteric fractures).

- For sufficient proximal **static** locking, always use the 120° antegrade locking option together with the transverse static screw.



- For immediate **primary dynamization**, insert only one proximal locking screw through the dynamic slot.



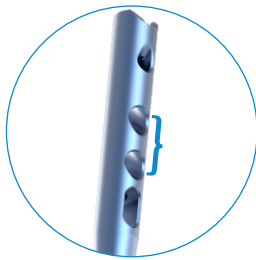
- For **secondary dynamization** use both the dynamic and the 120° antegrade locking position and remove the 120° locking when required.



Reconstruction Locking

The Expert Femur Nail with reconstruction locking is indicated for subtrochanteric fractures in addition with femoral shaft and neck fractures.

The use of two Ø6.4mm Cannulated Anti-Rotation screws ensures optimal stabilization for the treatment of combined femur neck and shaft fractures.



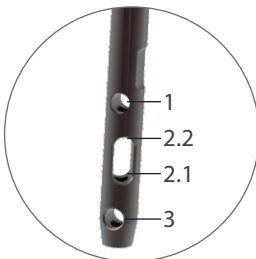
Ø6.4mm Cannulated Anti-Rotation screws



Distal Locking

The distal segment can be stabilized by using two Ø4.8mm Locking Bolts. Stability of the distal fragment can be enhanced by the use of a third Ø4.8mm Locking Bolt in the oblique hole.

1. Static Hole
2. Dynamic Hole (2.1 Dynamic Position & 2.2 Static Position)
3. Static hole



For sufficient distal **static** locking, it is suggested that **a minimum of two locking screws** should be used

COMPRESSION

It is recommended to close fracture gaps in order to decrease the incidence of nonunion or malunion. The Expert Femur Nailing offers two compression options.

Proximal Compression :

If proximal compression is planned, over-insert the nail to compensate for back striking the nail, active compression with compression screw or proximal dynamisation, the final position (after compression) of the nail should be flush with the trochanteric cortex.

Distal Dynamisation:

If distal dynamisation is planned, the tip of the nail will slide maximum by 9mm distally. In order to protect the articulating surface of the distal femur. This movement has to be taken into account when choosing the length and insertion of the implant.



Proximal Compression Options:

- Active compression via compression screw
- Back stroke technique
- Dynamisation

Distal Compression:

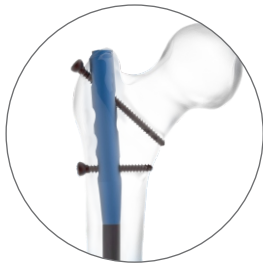
- Dynamisation

INDICATIONS

Standard Locking Indications

The Expert Femur Nail with standard locking is indicated for fractures in the Femur Shaft:

32-A/B/C (except subtrochanteric fractures 32-A [1-3].1, 32-B [1-3].1, and 32-C [1-3].1).



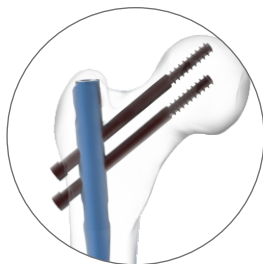
Reconstruction Locking Indications

The Expert Femur Nail with reconstruction locking is indicated for fractures in the femur shaft in case of combination with femur neck fractures:

32-A/B/C combined with 31-B (double ipsilateral fractures).

Additionally the Expert Femur Nail is indicated for fractures in the subtrochanteric section:

32-A [1-3].1, 32-B [1-3].1, and 32-C [1-3].1.



Contraindications

- Isolated femur neck fractures.
- Supracondylar fractures (localisation 32).
- Intertrochanteric fractures
- Pertrochanteric fractures

PRODUCT SPECIFICATIONS

Expert Femur Nail

Diameters:

Ø9mm, Ø10mm, Ø11mm, Ø12mm & Ø13mm

Length:

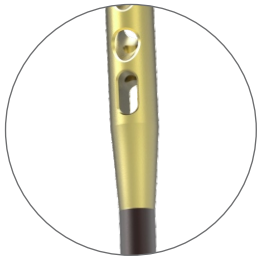
320mm - 440mm (With 20mm difference)

Available in:

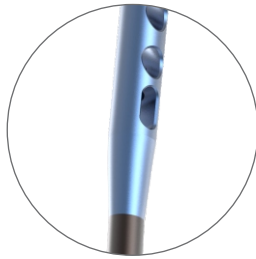
Stainless Steel and Titanium

Directions:

Left and Right



Right
Golden & Type-II



Left
Blue & Type-II

Color Coding (only for Titanium):

Expert Femur Nail, Left - Blue & Type-II

Expert Femur Nail, Right - Golden & Type-II

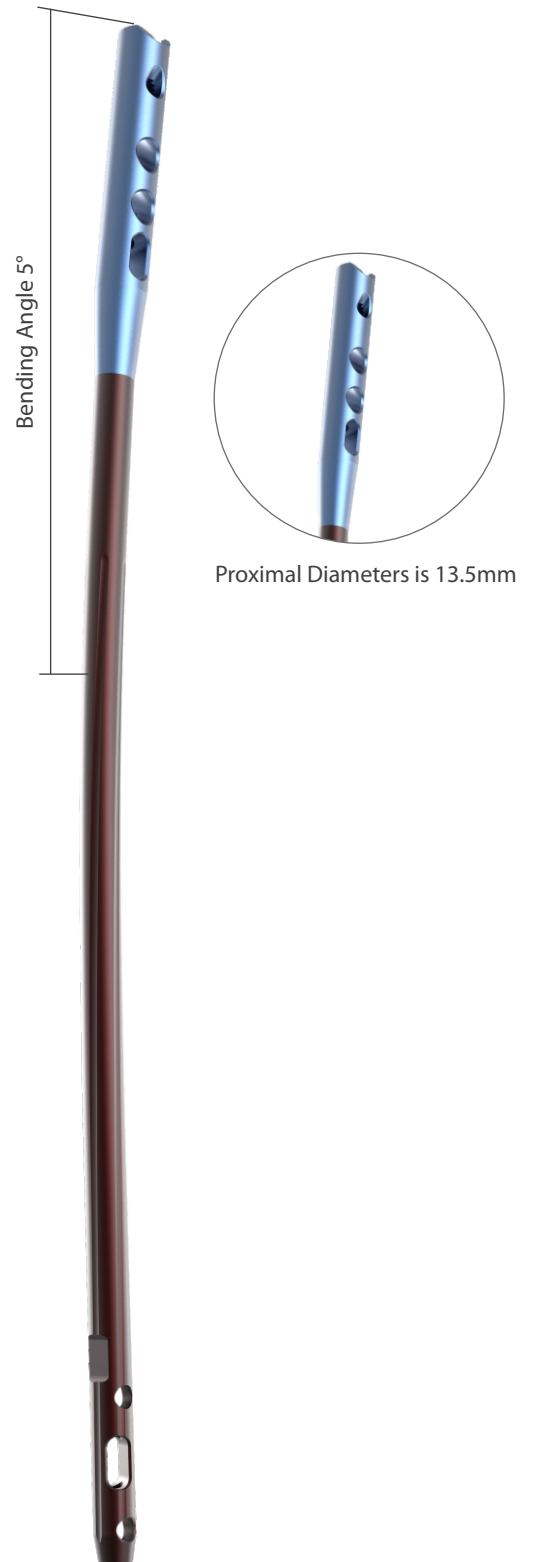
Cannulation:

All Expert Femur Nails are cannulated for reamed or unreamed techniques.

Ball tip reaming rod can be removed through the nail and insertion handle assembly to eliminate need for an exchange tube.

Advanced Nail Design:

- New anatomic bend for ease of nail insertion and extraction.
- Design accommodates a lateral entry site through the greater trochanter.
- Anatomical nail design based on a femur canal study.
- Easier surgical procedure due to steamlined instrumentation.



End Cap For Expert Femur Nail

Length:

0mm, 5mm, 10mm, 15mm and 20mm

Available in:

Stainless Steel and Titanium

Color coding (only for Titanium):

Type-II for End Cap

Features:

- End Cap prevents ingrowth of hard & soft tissue which facilitates nail extraction.
- 0 mm End Cap sits flush with nail.
- End Cap with different option of length can extend nail height if nail is over inserted.



Ø4.8mm Locking Bolt, Self-Tapping, For Expert Femur Nail

Length:

26mm - 84mm (With 2mm difference), 85mm & 90mm

Available in:

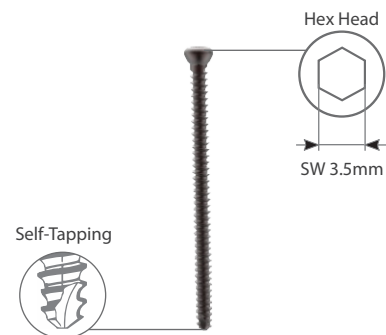
Stainless Steel and Titanium

Color Coding (only for Titanium):

Type-II for Ø4.8mm Locking Bolt

Features:

- Thread closer to screw head for better and improved stability
- Self Tapping
- Hex head
- Larger cross section for improved mechanical resistance.



Ø6.4mm Cannulated Anti-Rotation Screw, Self-Tapping, For Expert Femur Nail

Length:

60mm - 130mm (With 5mm difference)

Available in:

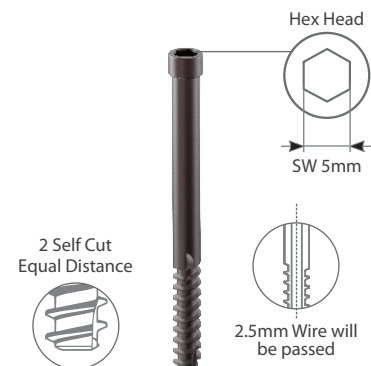
Stainless Steel and Titanium

Color Coding (only for Titanium):

Type-II For Ø6.4mm Cannulated Anti-Rotation Screw

Features:

- Cannulated
- Hex head



Entry Point:

The entry point is a determinant factor for the entire operation, especially for the optimal final position of the Expert Femur Nail in the medullary canal.



In AP view, the entry point is at the tip of the greater trochanter, approximately 5° lateral to the axis of the medullary canal.

In lateral view the entry point is in line with the axis of the intramedullary canal.

Expert Femur Nail

Stainless Steel

	(Left)	(Right)	Dia x Length
Ø9mm	1459-9-320L	1459-9-320R	Ø9mm x 320mm
	1459-9-340L	1459-9-340R	Ø9mm x 340mm
	1459-9-360L	1459-9-360R	Ø9mm x 360mm
	1459-9-380L	1459-9-380R	Ø9mm x 380mm
	1459-9-400L	1459-9-400R	Ø9mm x 400mm
	1459-9-420L	1459-9-420R	Ø9mm x 420mm
	1459-9-440L	1459-9-440R	Ø9mm x 440mm
Ø10mm	1459-10-320L	1459-10-320R	Ø10mm x 320mm
	1459-10-340L	1459-10-340R	Ø10mm x 340mm
	1459-10-360L	1459-10-360R	Ø10mm x 360mm
	1459-10-380L	1459-10-380R	Ø10mm x 380mm
	1459-10-400L	1459-10-400R	Ø10mm x 400mm
	1459-10-420L	1459-10-420R	Ø10mm x 420mm
	1459-10-440L	1459-10-440R	Ø10mm x 440mm
Ø11mm	1459-11-320L	1459-11-320R	Ø11mm x 320mm
	1459-11-340L	1459-11-340R	Ø11mm x 400mm
	1459-11-360L	1459-11-360R	Ø11mm x 360mm
	1459-11-380L	1459-11-380R	Ø11mm x 380mm
	1459-11-400L	1459-11-400R	Ø11mm x 400mm
	1459-11-420L	1459-11-420R	Ø11mm x 420mm
	1459-11-440L	1459-11-440R	Ø11mm x 440mm
Ø12mm	1459-12-320L	1459-12-320R	Ø12mm x 320mm
	1459-12-340L	1459-12-340R	Ø12mm x 340mm
	1459-12-360L	1459-12-360R	Ø12mm x 360mm
	1459-12-380L	1459-12-380R	Ø12mm x 380mm
	1459-12-400L	1459-12-400R	Ø12mm x 400mm
	1459-12-420L	1459-12-420R	Ø12mm x 420mm
	1459-12-440L	1459-12-440R	Ø12mm x 440mm
Ø13mm	1459-13-320L	1459-13-320R	Ø13mm x 320mm
	1459-13-340L	1459-13-340R	Ø13mm x 340mm
	1459-13-360L	1459-13-360R	Ø13mm x 360mm
	1459-13-380L	1459-13-380R	Ø13mm x 380mm
	1459-13-400L	1459-13-400R	Ø13mm x 400mm
	1459-13-420L	1459-13-420R	Ø13mm x 420mm
	1459-13-440L	1459-13-440R	Ø13mm x 440mm

Right

Left



Expert Femur Nail

		Titanium		
		(Left)	(Right)	Dia x Length
Ø9mm	TI-1459-9-320L	TI-1459-9-320R	Ø9mm x 320mm	
	TI-1459-9-340L	TI-1459-9-340R	Ø9mm x 340mm	
	TI-1459-9-360L	TI-1459-9-360R	Ø9mm x 360mm	
	TI-1459-9-380L	TI-1459-9-380R	Ø9mm x 380mm	
	TI-1459-9-400L	TI-1459-9-400R	Ø9mm x 400mm	
	TI-1459-9-420L	TI-1459-9-420R	Ø9mm x 420mm	
	TI-1459-9-440L	TI-1459-9-440R	Ø9mm x 440mm	
Ø10mm	TI-1459-10-320L	TI-1459-10-320R	Ø10mm x 320mm	
	TI-1459-10-340L	TI-1459-10-340R	Ø10mm x 340mm	
	TI-1459-10-360L	TI-1459-10-360R	Ø10mm x 360mm	
	TI-1459-10-380L	TI-1459-10-380R	Ø10mm x 380mm	
	TI-1459-10-400L	TI-1459-10-400R	Ø10mm x 400mm	
	TI-1459-10-420L	TI-1459-10-420R	Ø10mm x 420mm	
	TI-1459-10-440L	TI-1459-10-440R	Ø10mm x 440mm	
Ø11mm	TI-1459-11-320L	TI-1459-11-320R	Ø11mm x 320mm	
	TI-1459-11-340L	TI-1459-11-340R	Ø11mm x 400mm	
	TI-1459-11-360L	TI-1459-11-360R	Ø11mm x 360mm	
	TI-1459-11-380L	TI-1459-11-380R	Ø11mm x 380mm	
	TI-1459-11-400L	TI-1459-11-400R	Ø11mm x 400mm	
	TI-1459-11-420L	TI-1459-11-420R	Ø11mm x 420mm	
	TI-1459-11-440L	TI-1459-11-440R	Ø11mm x 440mm	
Ø12mm	TI-1459-12-320L	TI-1459-12-320R	Ø12mm x 320mm	
	TI-1459-12-340L	TI-1459-12-340R	Ø12mm x 340mm	
	TI-1459-12-360L	TI-1459-12-360R	Ø12mm x 360mm	
	TI-1459-12-380L	TI-1459-12-380R	Ø12mm x 380mm	
	TI-1459-12-400L	TI-1459-12-400R	Ø12mm x 400mm	
	TI-1459-12-420L	TI-1459-12-420R	Ø12mm x 420mm	
	TI-1459-12-440L	TI-1459-12-440R	Ø12mm x 440mm	
Ø13mm	TI-1459-13-320L	TI-1459-13-320R	Ø13mm x 320mm	
	TI-1459-13-340L	TI-1459-13-340R	Ø13mm x 340mm	
	TI-1459-13-360L	TI-1459-13-360R	Ø13mm x 360mm	
	TI-1459-13-380L	TI-1459-13-380R	Ø13mm x 380mm	
	TI-1459-13-400L	TI-1459-13-400R	Ø13mm x 400mm	
	TI-1459-13-420L	TI-1459-13-420R	Ø13mm x 420mm	
	TI-1459-13-440L	TI-1459-13-440R	Ø13mm x 440mm	

Right

Left



End Caps For Expert Femur Nail



Stainless Steel	Titanium	Length
1459-01	TI-1459-01	0mm
1459-05	TI-1459-05	5mm
1459-10	TI-1459-10	10mm
1459-15	TI-1459-15	15mm
1459-20	TI-1459-20	20mm

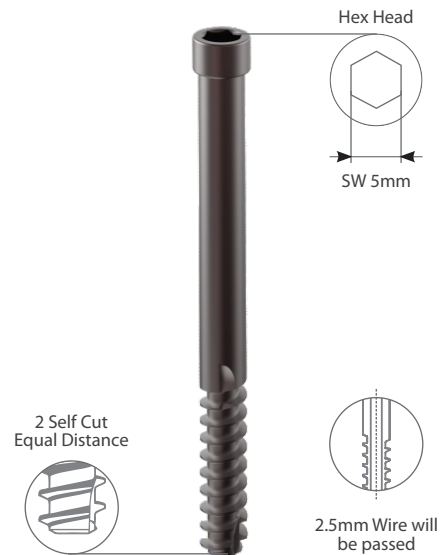
Ø4.8mm Locking Bolt, Self-Tapping, For Expert Femur Nail



Stainless Steel	Titanium	Length (mm)
1458-4.8-026	TI-1458-4.8-026	26
1458-4.8-028	TI-1458-4.8-028	28
1458-4.8-030	TI-1458-4.8-030	30
1458-4.8-032	TI-1458-4.8-032	32
1458-4.8-034	TI-1458-4.8-034	34
1458-4.8-036	TI-1458-4.8-036	36
1458-4.8-038	TI-1458-4.8-038	38
1458-4.8-040	TI-1458-4.8-040	40
1458-4.8-042	TI-1458-4.8-042	42
1458-4.8-044	TI-1458-4.8-044	44
1458-4.8-046	TI-1458-4.8-046	46
1458-4.8-048	TI-1458-4.8-048	48
1458-4.8-050	TI-1458-4.8-050	50
1458-4.8-052	TI-1458-4.8-052	52
1458-4.8-054	TI-1458-4.8-054	54
1458-4.8-056	TI-1458-4.8-056	56
1458-4.8-058	TI-1458-4.8-058	58
1458-4.8-060	TI-1458-4.8-060	60
1458-4.8-062	TI-1458-4.8-062	62
1458-4.8-064	TI-1458-4.8-064	64
1458-4.8-066	TI-1458-4.8-066	66
1458-4.8-068	TI-1458-4.8-068	68
1458-4.8-070	TI-1458-4.8-070	70
1458-4.8-072	TI-1458-4.8-072	72
1458-4.8-074	TI-1458-4.8-074	74
1458-4.8-076	TI-1458-4.8-076	76
1458-4.8-078	TI-1458-4.8-078	78
1458-4.8-080	TI-1458-4.8-080	80
1458-4.8-082	TI-1458-4.8-082	82
1458-4.8-084	TI-1458-4.8-084	84
1458-4.8-085	TI-1458-4.8-085	85
1458-4.8-090	TI-1458-4.8-090	90

Ø6.4mm Cannulated Anti -Rotation Screw, Self-Tapping, For Expert Femur Nail

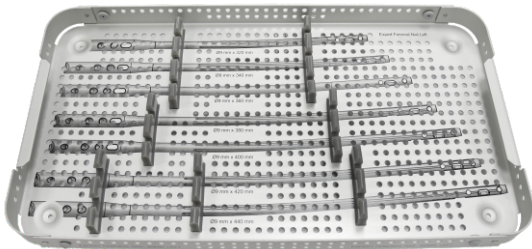
Stainless Steel	Titanium	Length
1459-060	TI-1459-060	60mm
1459-065	TI-1459-065	65mm
1459-070	TI-1459-070	70mm
1459-075	TI-1459-075	75mm
1459-080	TI-1459-080	80mm
1459-085	TI-1459-085	85mm
1459-090	TI-1459-090	90mm
1459-095	TI-1459-095	95mm
1459-100	TI-1459-100	100mm
1459-105	TI-1459-105	105mm
1459-110	TI-1459-110	110mm
1459-115	TI-1459-115	115mm
1459-120	TI-1459-120	120mm
1459-125	TI-1459-125	125mm
1459-130	TI-1459-130	130mm



1-014L Implant Box for Expert Femur Nail (Left)



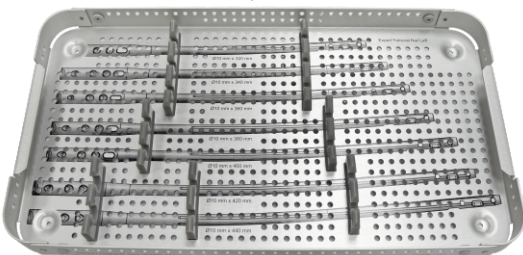
Tray 1



Dia	Length	Qty
Ø9mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

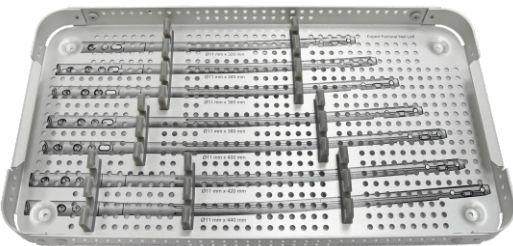
Tray 2



Dia	Length	Qty
Ø10mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

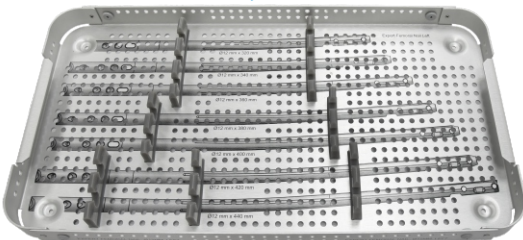
Tray 3



Dia	Length	Qty
Ø11mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

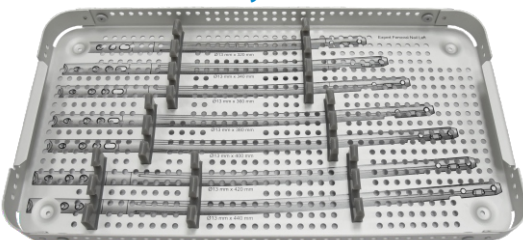
Tray 4



Dia	Length	Qty
Ø12mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

Tray 5



Dia	Length	Qty
Ø13mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement



Ø4.8mm Locking Bolt, Self-Tapping, For Expert Femur Nail

Dia	Length	Qty
Ø4.8mm	26mm to 90mm	5pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

Ø6.4mm Cannulated Anti -Rotation Screw, Self-Tapping, For Expert Femur Nail

Dia	Length	Qty
Ø6.4mm	60mm to 130mm	2pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

End Caps For Expert Femur Nail

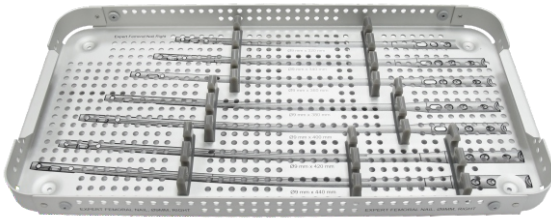
Length	Qty
0mm to 20mm	2pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

1-014R Implant Box for Expert Femur Nail (Right)



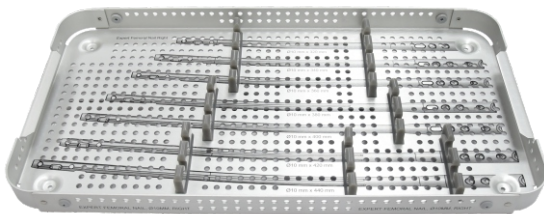
Tray 1



Dia	Length	Qty
Ø9mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

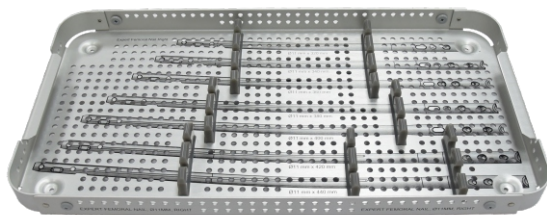
Tray 2



Dia	Length	Qty
Ø10mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

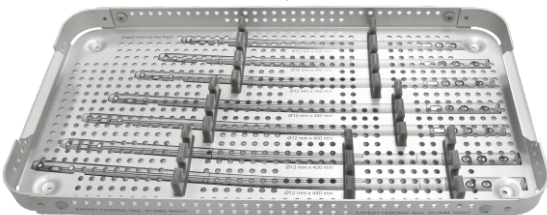
Tray 3



Dia	Length	Qty
Ø11mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

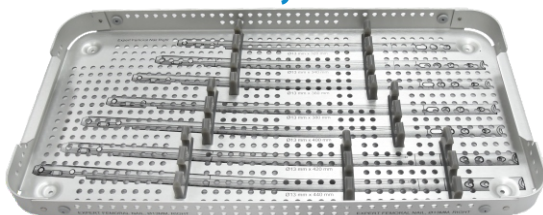
Tray 4



Dia	Length	Qty
Ø12mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement

Tray 5



Dia	Length	Qty
Ø13mm	320mm to 440mm	1 pcs

Stainless Steel or Titanium Implants can be placed as per requirement



Ø4.8mm Locking Bolt, Self-Tapping, For Expert Femur Nail

Dia	Length	Qty
Ø4.8mm	26mm to 90mm	5pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

Ø6.4mm Cannulated Anti -Rotation Screw, Self-Tapping, For Expert Femur Nail

Dia	Length	Qty
Ø6.4mm	60mm to 130mm	2pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

End Caps For Expert Femur Nail

Length	Qty
0mm to 20mm	2pcs

*Stainless Steel or Titanium Implants
can be placed as per requirement*

1459-001 Cannulated Awl for Expert Femur Nail



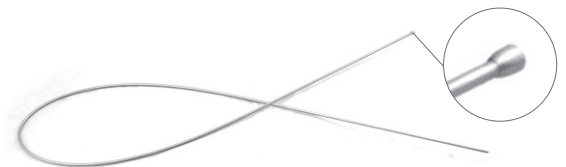
1459-002 Entry Reamer Ø14.3mm for Expert Femur Nail



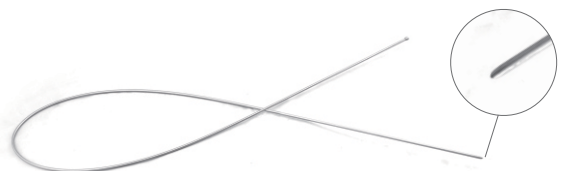
1459-003 T-Handle with Quick Coupling for Entry Reamer - Expert Femur Nail



1459-004 Guide Wire With Ball Tip Ø2.5/3.65mm x Length 1000mm - Nitinol, for Expert Femur Nail



1459-062 Guide Wire Without Ball Tip Ø2.5mm x Length 1000mm - Nitinol, for Expert Femur Nail



1459-005 Insertion Handle for Expert Femur Nail



1459-006 Flexible Reamer Shaft (AO Connection) for Expert Femur Nail



1459-007 Reduction Rod for Expert Femur Nail



Reamer Head

Code	Dia	Code	Dia
1459-008	Ø8.5mm	1459-014	Ø11.5mm
1459-009	Ø9mm	1459-015	Ø12mm
1459-010	Ø9.5mm	1459-016	Ø12.5mm
1459-011	Ø10mm	1459-017	Ø13mm
1459-012	Ø10.5mm	1459-018	Ø13.5mm
1459-013	Ø11mm	1459-019	Ø14mm



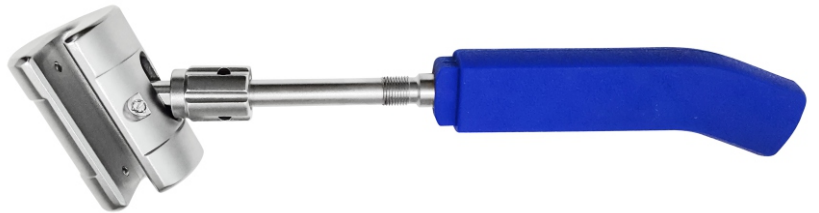
1459-020 Nail Holding Bolt for Expert Femur Nail



1459-021 Long Screwdriver with T-Handle, Hex 5mm, for Expert Femur Nail



1459-022 Sliding Hammer for Expert Femur Nail



1459-023 Proximal Aiming Bar for Expert Femur Nail



1459-024 Locking Bolt For Proximal Aiming Bar - Expert Femur Nail



1459-025 Allen Key, Hex 5mm for Expert Femur Nail



1459-026 Proximal Aiming Device for Expert Femur Nail



1459-027 Distal Aiming Bar for Expert Femur Nail



1459-028 Locking Bolt for Distal Aiming Bar - Expert Femur Nail



1459-029 Distal Targeting Device for Expert Femur Nail



1459-030 Outer Drill Sleeve 10/8.1mm for Distal Targeting Device - Expert Femur Nail



1459-031 Trocar for Sleeve 8.1mm for Distal Targeting Device- Expert Femur Nail



1459-032 Drill Sleeve 8.1/5.2mm for Positioning Rod - Expert Femur Nail



1459-033 Drill Bit Plain Shank/Jacob Chuck End Ø5.2mm x Length 250mm for Expert Femur Nail



1459-034 Ø5.2mm T-Handle Drill Bit with Flat End for Expert Femur Nail



1459-035 Positioning Rod 8.1/5.2mm for Expert Femur Nail



1459-036 Stabilizing Device for Expert Femur Nail



1459-037 Outer Drill Sleeve 11/8.2mm for Expert Femur Nail



1459-038 Trocar Sleeve Ø8.2/2.5mm for Expert Femur Nail



1459-039 Trocar Ø2.5mm for Expert Femur Nail



1459-040 Drill Sleeve 8/4.4mm for Expert Femur Nail



1459-041 Trocar Ø4.3mm for Expert Femur Nail



1459-042 Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Expert Femur Nail



1459-061 Stopper for Ø4.3mm Drill Bit - Expert Femur Nail



7-118-01 Allen Key, Hex 3mm for Expert Femur Nail



1459-043 Depth Gauge measuring upto 90mm for Ø4.8mm Locking Bolt - Expert Femur Nail



1459-044 Screwdriver with T-Handle, Hex 3.5mm for Ø4.8mm Locking Bolt - Expert Femur Nail



1459-045 Universal Screwdriver, Hex 6.5mm, Ball Tip for Nail Holding Bolt- Expert Femur Nail



1459-046 Distal Bolt, Hex 5mm for Distal Targeting Device - Expert Femur Nail



1459-047 Guide Wire with Threaded Tip Ø2.5mm x Thread Length 10mm x Length 338mm



1459-048 Guide Wire, Ø2.5mm x Length 338mm



1459-049 Direct Measuring Device, Length upto 120mm, for Expert Femur Nail



1459-050-1 Tissue Protector for Expert Femur Nail



1459-051 Cannulated Step Drill Bit for Anti-Rotation Screw - Expert Femur Nail



1459-051-1 Stopper for Step Drill Bit - Expert Femur Nail



1459-053 Protection Sleeve 17/14.5mm for Expert Femur Nail



1459-052 Guide Sleeve 14.3/3.2mm for Protection Sleeve - Expert Femur Nail



1459-054 Impactor - Extractor Rod for Expert Femur Nail



1459-055-1 Guide Wire Holder for Expert Femur Nail



1459-056 Distal Screw Device (Static/ Dynamic Locking) for Expert Femur Nail



1459-057 Combination Wrench 11mm for Expert Femur Nail



1459-058 Connecting Rod - Impactor for Expert Femur Nail



1459-058-1 Connecting Block for Connecting Rod - Expert Femur Nail



1459-059 Compression Bolt Ø4mm for Expert Femur Nail



1459-060-1 Guide Pin, Ø3.2mm x Length 480mm



1459-063 Radiographic Ruler for Expert Femur Nail



1459-064 Depth Gauge measuring upto 100mm for Expert Femur Nail



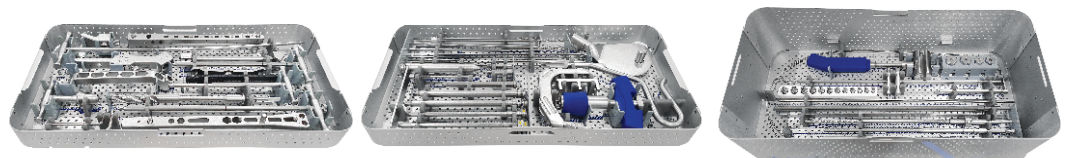
7-010-02 Medullary Exchange Tube



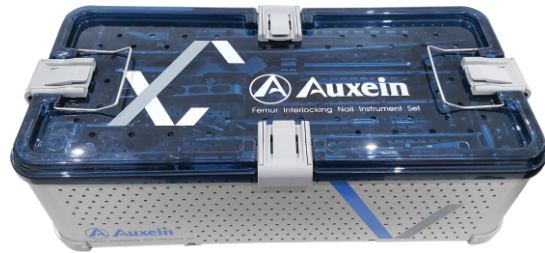
7-010-03 T-Handle for Flexible Reamer (AO Connection)



1459-065T Instrument Trays for Expert Femur Nailing Instrument Set

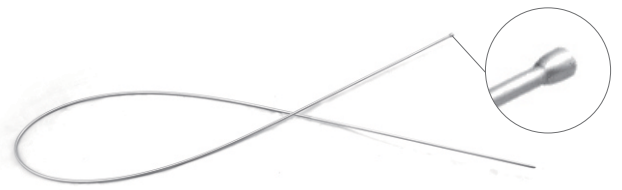


1459-066 Container with PPSU Lid for Expert Femur Nailing Instrument Set

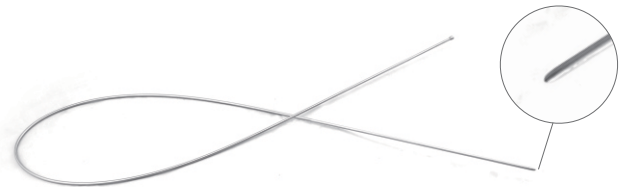


Optional Instruments

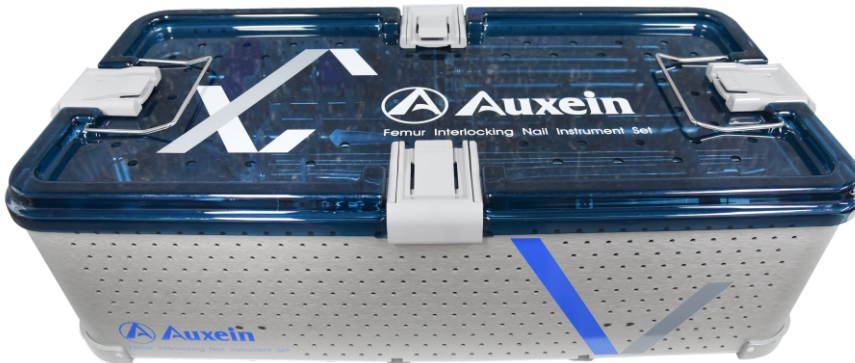
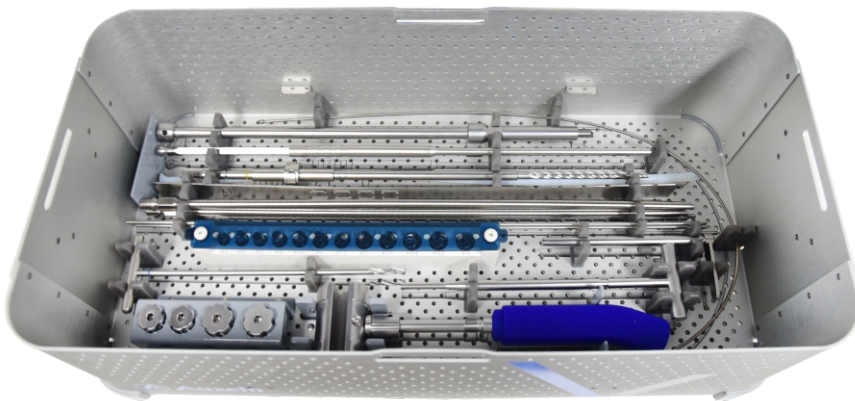
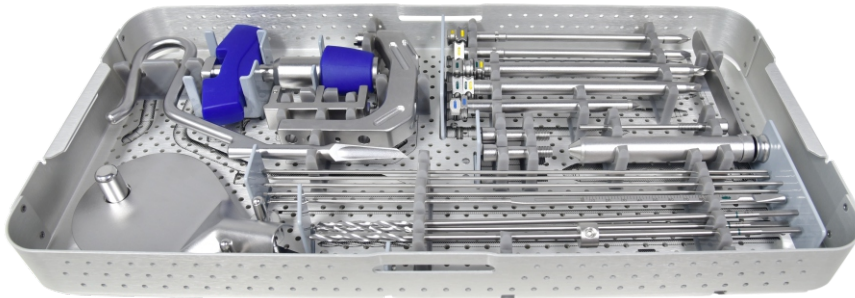
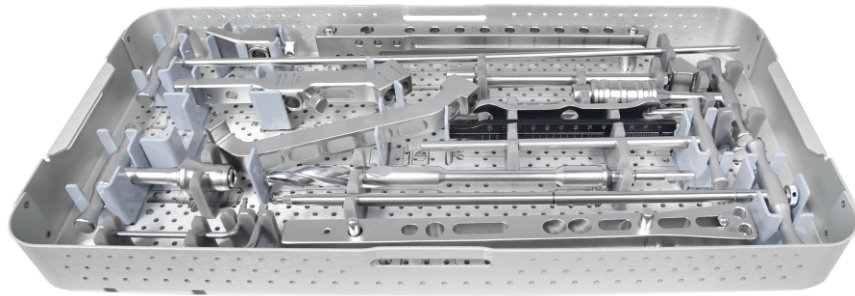
1459-004S Guide Wire With Ball Tip Ø2.5/3.65mm x Length 1000mm -Stainless Steel, for Expert Femur Nail



1459-062S Guide Wire Without Ball Tip Ø2.5mm x Length 1000mm -Stainless Steel, for Expert Femur Nail



INS-1459 Expert Femur Nailing Instrument Set



INS-1459 Expert Femur Nailing Instrument Set

Code	Set Consisting of	Units
1459-001	Cannulated Awl for Expert Femur Nail	1
1459-002	Entry Reamer Ø14.3mm for Expert Femur Nail	1
1459-003	T-Handle with Quick Coupling for Entry Reamer - Expert Femur Nail	1
1459-004	Guide Wire With Ball Tip Ø2.5/3.65mm x Length 1000mm - Nitinol, for Expert Femur Nail	1
1459-062	Guide Wire Without Ball Tip Ø2.5mm x Length 1000mm - Nitinol, for Expert Femur Nail	1
1459-005	Insertion Handle for Expert Femur Nail	1
1459-006	Flexible Reamer Shaft (AO Connection) for Expert Femur Nail	2
1459-007	Reduction Rod for Expert Femur Nail	1
1459-008	Reamer Head, Ø8.5mm for Expert Femur Nail	1
1459-009	Reamer Head, Ø9.0mm for Expert Femur Nail	1
1459-010	Reamer Head, Ø9.5mm for Expert Femur Nail	1
1459-011	Reamer Head, Ø10.0mm for Expert Femur Nail	1
1459-012	Reamer Head, Ø10.5mm for Expert Femur Nail	1
1459-013	Reamer Head, Ø11.0mm for Expert Femur Nail	1
1459-014	Reamer Head, Ø11.5mm for Expert Femur Nail	1
1459-015	Reamer Head, Ø12.0mm for Expert Femur Nail	1
1459-016	Reamer Head, Ø12.5mm for Expert Femur Nail	1
1459-017	Reamer Head, Ø13.0mm for Expert Femur Nail	1
1459-018	Reamer Head, Ø13.5mm for Expert Femur Nail	1
1459-019	Reamer Head, Ø14.0mm for Expert Femur Nail	1
1459-020	Nail Holding Bolt for Expert Femur Nail	2
1459-021	Long Screwdriver with T-Handle, Hex 5mm, for Expert Femur Nail	1
1459-022	Sliding Hammer for Expert Femur Nail	1
1459-023	Proximal Aiming Bar for Expert Femur Nail	1
1459-024	Locking Bolt For Proximal Aiming Bar - Expert Femur Nail	1
1459-025	Allen Key, Hex 5mm for Expert Femur Nail	1
1459-026	Proximal Aiming Device for Expert Femur Nail	1
1459-027	Distal Aiming Bar for Expert Femur Nail	1
1459-028	Locking Bolt for Distal Aiming Bar - Expert Femur Nail	1
1459-029	Distal Targeting Device for Expert Femur Nail	1
1459-030	Outer Drill Sleeve 10/8.1mm for Distal Targeting Device - Expert Femur Nail	1
1459-031	Trocar for Sleeve 8.1mm for Distal Targeting Device- Expert Femur Nail	1
1459-032	Drill Sleeve 8.1/5.2mm for Positioning Rod - Expert Femur Nail	1
1459-033	Drill Bit Plain Shank/Jacob Chuck End Ø5.2mm x Length 250mm for Expert Femur Nail	1
1459-034	Ø5.2mm T-Handle Drill Bit with Flat End for Expert Femur Nail	1
1459-035	Positioning Rod 8.1/5.2mm for Expert Femur Nail	1
1459-036	Stabilizing Device for Expert Femur Nail	1
1459-037	Outer Drill Sleeve 11/8.2mm for Expert Femur Nail	2

Code	Set Consisting of	Units
1459-038	Trocar Sleeve Ø8.2/2.5mm for Expert Femur Nail	2
1459-039	Trocar Ø2.5mm for Expert Femur Nail	1
1459-040	Drill Sleeve 8/4.4mm for Expert Femur Nail	2
1459-041	Trocar Ø4.3mm for Expert Femur Nail	1
1459-042	Drill Bit Plain Shank/Jacob Chuck End Ø4.3mm x Length 300mm for Expert Femur Nail	3
1459-061	Stopper for Ø4.3mm Drill Bit - Expert Femur Nail	1
7-118-01	Allen Key, Hex 3mm for Expert Femur Nail	1
1459-043	Depth Gauge measuring upto 90mm for Ø4.8mm Locking Bolt - Expert Femur Nail	1
1459-044	Screwdriver with T-Handle, Hex 3.5mm for Ø4.8mm Locking Bolt - Expert Femur Nail	1
1459-045	Universal Screwdriver, Hex 6.5mm, Ball Tip for Nail Holding Bolt- Expert Femur Nail	1
1459-046	Distal Bolt, Hex 5mm for Distal Targeting Device - Expert Femur Nail	2
1459-047	Guide Wire with Threaded Tip Ø2.5mm x Thread Length 10mm x Length 338mm	3
1459-048	Guide Wire, Ø2.5mm x Length 338mm	3
1459-049	Direct Measuring Device, Length upto 120mm, for Expert Femur Nail	1
1459-050-1	Tissue Protector for Expert Femur Nail	1
1459-051	Cannulated Step Drill Bit for Anti-Rotation Screw - Expert Femur Nail	1
1459-051-1	Stopper for Step Drill Bit - Expert Femur Nail	1
1459-053	Protection Sleeve 17/14.5mm for Expert Femur Nail	1
1459-052	Guide Sleeve 14.3/3.2mm for Protection Sleeve - Expert Femur Nail	1
1459-054	Impactor - Extractor Rod for Expert Femur Nail	1
1459-055-1	Guide Wire Holder for Expert Femur Nail	1
1459-056	Distal Screw Device (Static/ Dynamic Locking) for Expert Femur Nail	1
1459-057	Combination Wrench 11mm for Expert Femur Nail	1
1459-058	Connecting Rod - Impactor for Expert Femur Nail	1
1459-058-1	Connecting Block for Connecting Rod - Expert Femur Nail	1
1459-059	Compression Bolt Ø4mm for Expert Femur Nail	1
1459-060-1	Guide Pin, Ø3.2mm x Length 480mm	2
1459-063	Radiographic Ruler for Expert Femur Nail	1
1459-064	Depth Gauge measuring upto 100mm for Expert Femur Nail	1
7-010-02	Medullary Exchange Tube	1
7-010-03	T-Handle for Flexible Reamer (AO Connection)	1
1459-065T	Instrument Trays for Expert Femur Nailing Instrument Set	3
1459-066	Container with PPSU Lid for Expert Femur Nailing Instrument Set	1



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