


Auxein Medical Pvt. Ltd. Kundli, Sonapat	INSTRUCTIONS FOR USE Intramedullary Tibia Nailing System (Sterile)	
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INSTRUCTION FOR USE, A3-REG-QF-13-F9

Device System Name

AUXEIN MEDICAL'S Intramedullary Tibia Nailing System, consists of Interlocking Cannulated Tibia, Expert Tibia Nail.

Device Description

The Intramedullary Tibia Nailing System, which consists of Interlocking Cannulated Tibia , Expert Tibia Nail Interlocking Cannulated Tibia Nail are available in five diameter 8, 9, 10, 11 and 12mm with the total length 270, 285, 300, 315, 330, 345, 360, 375 and 390 mm respectively.

Expert Tibia Nails are available in five diameter 8, 9, 10, 11, and 12 mm with the total length 255, 270, 285, 300, 315, 330, 345, 360 and 375 mm respectively.

These nails are manufactured in Titanium and Stainless Steel material.

Materials

The Intramedullary Tibia Nailing System are made from Stainless Steel Alloy as per ISO 5832-1 and Titanium Alloy Ti-6Al-4V as per ISO 5832-3. This material is not compatible with other metal alloys.

Nail and Screw Combination:

Nails	Screws used with nail
Interlocking Cannulated Tibia Nail	<ul style="list-style-type: none"> ● 4.5mm Locking Bolt ● End Cap for Interlocking Tibia Nail
Expert Tibia Nail	<ul style="list-style-type: none"> ● 4.8mm Locking Bolt ● 4.4mm Locking Bolt ● End Cap for Expert Tibia Nail

Indications

The indications and contraindications of the Intramedullary Tibia Nailing System should be well understood by the surgeon.

The AUXEIN MEDICAL Tibia nail is indicated for use in a variety of tibial fractures, such as:

Intramedullary Nailing Implants are intended to be used for temporary fixation and stabilization of long bones in various anatomical regions such as tibia.


- Comminuted fractures
- Segmental fractures
- Fractures with bone loss
- Proximal and distal fractures
- Nonunions
- Subtrochanteric fractures
- Intertrochanteric fractures

Specific Indication

Interlocking Cannulated Tibia Nail: It is used for fractures in the Tibia shaft as well as in combination with femoral neck fractures.

Expert Tibia Nail: The Expert Tibia nail is indicated for fractures in the tibial shaft as well as for metaphyseal certain intraarticular fractures of the tibial head and the pilon tibial.

Numerous modifications in nail and screw design have led to the development of the Expert Tibial

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Nail. It enables the surgeon to extend the spectrum of fractures eligible for intramedullary nailing further. In the proximal metaphysis spongy bone screws achieve an optimized purchase in the cancellous bone. Multidirectional interlocking screws ensure that alignment can be well maintained and stability preserved in short proximal or distal tibial segments. The end cap achieves angular stability between the proximal oblique screw and the nail. These changes in implant design enhance the stability of the bone-nail construct and reduce the risk of secondary malalignment. The results of our prospective case series demonstrate favorable results and extended indications, compared to standard tibial nails.

Contraindications


Contraindications may be relative or absolute. The choice of particular device must be carefully weighed against patient's overall condition. The conditions listed below may preclude or reduce the chance of a successful outcome:

- Low subtrochanteric fractures.
- Tibial shaft fractures.
- Signs of local inflammation.
- Infection local to the operative site.
- Fever or leukocytosis.
- Neuromuscular disorders which can create unacceptable risk of fixation failure or complications in postoperative care.
- Any other condition which would preclude the potential benefit of implant insertion surgery and disturb the normal process of bone remodeling, e.g. the presence of tumours or congenital abnormalities, fracture local to the operating site, elevation of sedimentation rate unexplained by other diseases, elevation of white blood cells (WBC) count, or a marked left shift in the WBC differential count.
- Suspected or documented allergy or intolerance to implant materials. The surgeon shall find out if the patient develops allergic reaction to the material of the implant (content of the implant material is presented in IMPLANT MATERIAL).
- Any case not needing a surgical intervention.
- Any case not described in the indications.
- Any patient unwilling to cooperate with postoperative instructions; mental illness, a condition of senility or substance abuse may cause the patient to ignore certain necessary limitations and precautions in the implant usage.
- Any case where the implant components selected for use would be too large or too small to achieve a successful result.
- Any case that requires the simultaneous use of elements from different systems that are made of different metals.
- Any case in which implant utilization would disturb physiological processes.
- Blood supply limitation in the operative site.
- Morbid obesity (defined according to the WHO standards).
- Any case in which there is inadequate tissue coverage of the operative site.
- Shaft fractures with a fissure less than 5 cm from the nearest interlocking hole of the nail. The above-mentioned list does not exhaust the topic of contraindications.

Warning & Precautions

See package insert for warnings, precautions, adverse effects, information for patients and other essential product information.


- Serious Post-operative complications may occur from the use of implant in a patient who:

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- Lacks good general physical condition.
- Has severe osteoporosis.
- Demonstrates anatomical or physiological anomalies.
- The patient should be informed that the life expectancy of the device is unpredictable and once implanted, successful results cannot be guaranteed if adequate care and precautions are not taken. The reuse of implants after resterilization may not result in the same responses.
- The AUXEIN MEDICAL Intramedullary Tibia Nailing System is not intended to support the body weight of the patient as it is too heavy.
- While rare, intraoperative fracture or breakage of the instrument can occur. Instruments which have been subjected to prolonged use or excessive force are more susceptible to fractures, depending on care taken during surgery, number of procedures performed and attention paid. Instruments should be examined for wear or damage before surgery.
- While inserting the screw, it is essential to set the screwdriver with the screw correctly. Following the instructions given allows for reduction of the risk of mechanical damage to the screw, screwdriver, or bony hole:
 - The Screwdriver should be set on the screw axis.
 - Apply proper axial pressure to ensure that the screwdriver goes as deep in the head of the bone screw as possible.
 - The final phase of tightening shall be performed carefully.
- Vascular disorders, including thrombophlebitis, pulmonary embolism, wound hematoma, and avascular necrosis.
- Delayed consolidation or nonunion that can lead to implant rupture.
- Has immunological response, sensitization or hypersensitivity for foreign materials.
- Do Not Re-Use. Do not re-process. The device is not designed for re-processing. Reuse of the medical device intended for single use devices may lead to infection, degraded performance or a loss of functionality. The cleaning and disinfection/sterilization for re-processing of these single use devices has not been validated nor is any authentic information available. So re-process of the single use device is not allowed.
- The important medical information given in this document should be conveyed to the patient.
- The selection of the proper shape and size of the implant appropriate for a specific patient is crucial to achieving success of the surgery. The surgeon handles this decision.
- Patients who are overweight, malnourished and/or abusing alcohol or drugs, with weak muscles and low quality bones and/or with nerve palsy are not the best candidates for the procedure of surgical stabilization. These patients are not able or not ready to observe the post-operative recommendations and limitations.
- The surgeon must warn the patient that the device cannot and does not restore the function and efficiency of a healthy bone.
- For Qualified surgeon use only.
- In the case of delayed union or non-union, the load or weight bearing may eventually cause the implant to bend, loose, disassemble or fatigue breakage.
- Implants should be stored in appropriate protective packages, in a clean, dry place with a moderate temperature and under conditions that provide protection from direct sunlight.

Note: It is the responsibility of the surgeon to discuss, with the patient, the precautions, possible risks, warnings, consequences, complications and adverse reactions which may occur as a result of the surgical procedure and implantation of the device(s). The patient should be informed that the life expectancy of the device is unpredictable and once implanted, successful results cannot be guaranteed

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if adequate care and precautions are not taken.

If adverse effects happen, it may necessitate re-operation, revision or removal surgery, arthrodesis or the involved joint and/or amputation of the limb.

Intended Patient Group

This system is intended to be used in skeletally mature patients and patients that meet the criteria described in the indications should be selected. Patient conditions and/or predispositions such as those addressed in the contraindications mentioned above should be avoided.

Surgeon Note

Although the surgeon is the learned intermediary between the company and the patient, the indications, contraindications, warnings and precautions given in this document must be conveyed to the patient.

Caution

For use on or by the order of a surgeon only.


MRI Compatibility

The AUXEIN MEDICAL Intramedullary Tibia Nails have not been evaluated for safety and compatibility in the MR environment. The AUXEIN MEDICAL implant has not been tested for heating or migration in the MR environment. Patients should seek the opinion of medical experts before entering the MRI (Magnetic Resonance Imaging) environment.

Potential Adverse Events

All of the possible adverse events associated with Intramedullary Tibia Nail implantation without instrumentation are possible. With instrumentation, a listing of possible adverse events includes, but is not limited to:

- The adverse effects may necessitate re operation or revision. The surgeon should warn the patient about the possibility of adverse effects occurrence.
- The under mentioned list does not exhaust the topic of adverse events. There is a risk of occurrence of adverse events with unknown aetiology which may be caused by many unpredictable factors.
- Potential adverse events include but are not limited to:
- Implant damage (fracture, deformation or detachment).
- Early or late loosening or displacement of the implant from the initial place of insertion.
- Possibility of corrosion as a result of contact with other materials.
- Body reaction to implants as foreign bodies e.g. possibility of tumour metaplasia, autoimmune disease and/or scarring.
- Compression on the surrounding tissue or organs.
- Infection.
- Bone fractures or “stress shielding” phenomenon causing loss of bone above, below or at the operative site.
- Haemorrhage of blood vessels and/or hematomas.
- Pain.
- Metal sensitivity.
- Inability to perform everyday activities.
- Mental condition changes.

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- Deep vein thrombosis, thrombophlebitis.
- Occurrence of respiratory complications, e.g.: pulmonary embolism, atelectasis, bronchitis, pneumonia, pulmonary Infection, disturbed lung growth, respiratory acidosis, etc.
- Scar formation that could cause neurological impairment, or nerves compression and/or pain.
- Late bone fusion or no visible fusion mass and pseudoarthrosis.
- Loss of proper curvature and/or length of bone.

Note

Additional surgery may be necessary to correct some of these anticipated adverse events.

Other Preoperative, Intraoperative and Postoperative Warnings are as Follow

A successful result is not always achieved in every surgical case. This fact is especially true in Intramedullary Tibia Nails surgery, where many extenuating circumstances may compromise the results.

Preoperative

The selection of the proper size, shape and design of the implant for each patient is crucial to the success of the procedure.

- It is essential to follow all of the surgeon's postoperative directions and warnings.
- It is essential to confirm the proper position of the implant by roentgenographic examination.
- In postoperative period, in treatment, the correctness of implant positioning and immobilization of union should be confirmed by roentgenographic examination.
- Only patients that meet the criteria described in the indications should be selected. This system is intended to be used in skeletally mature patients.
- Before surgery, the surgeon must plan the operation by correcting the selection and sizing of the implant components and their positioning in the bone. The surgeon needs to ensure that: Instruments have been properly disassembled before cleaning and sterilization; Instruments have been properly assembled post-sterilization; instruments have maintained design integrity; and, Proper size configurations are available.
- The implant bed is prepared using the appropriate Auxein Medical's instruments for the specific replacement procedure being performed.
- All informational material concerning the range of implants, instrumentation and surgical technique has been reviewed and is available and the surgeon and the surgical team are familiar with this information.
- The rules of medical skill, the state of the art, and the contents of scholarly publications by medical authors are known and observed.
- Re-use of any implant is prohibited as it includes risk of infection/disease.


Intra-operative

AUXEIN MEDICAL Intramedullary Tibia Nailing System nails is available in various sizes to suit the patient's Tibia anatomy. Details of the implant size are explicitly marked on the packaging and/or on the implants themselves. In addition, the related product literature carries detailed information related to the selection of particular sizes.

The correct use of these components should be clearly described in the relevant product literature corresponding with the Intramedullary Tibia Nailing System being implanted.

Post-operative


The surgeon's postoperative directions and warnings to the patient and the corresponding patient

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compliance are crucial.

- Detailed instructions on the use and limitations of the device should be given to the patient. If partial weight-bearing is recommended or required before firm bony union, the patient must be warned that bending, loosening or breakage of the components are complications which can occur because of excessive or early weight-bearing or excessive muscular activity. The risk of bending, loosening, or breakage of a temporary internal fixation device during postoperative rehabilitation may be increased if the patient is active, or if the patient is debilitated, demented or otherwise unable to use crutches or other such weight supporting devices.
- The surgeon must instruct the patient regarding appropriate and restricted activities during consolidation and maturation of the fusion mass in order to prevent placing excessive stress on the implants which may lead to fixation or implant failure and further clinical problems. The implant may break or become damaged because of strenuous activity or trauma, and may need to be replaced in the future.
- Failure to perform appropriate immobilization of bone when delayed or non-union occurs may lead to excessive fatigue stresses in the implant. Fatigue stresses may be a potential cause of implant becoming bent, loosened or fractured. If a non-union fracture or implant bending, loosening or fracture occurs, the patient should be immediately revised, and the implants should be removed before any serious injuries occur. The patient must be appropriately warned about these risks and closely monitored to ensure compliance during the treatment until the bone union is confirmed. The patient should be warned of this possibility and instructed to limit and restrict physical activities, especially lifting and twisting motions and any type of sport participation. The patient should be advised not to smoke or consume alcohol during the bone graft healing process.
- If a non-union develops or if the components loosen, bend, and/or break, the device(s) should be revised and/or removed immediately before serious injury occurs. Failure to immobilize a delayed or non-union of bone will result in excessive and repeated stresses on the implant. By the mechanism of fatigue these stresses can cause eventual bending, loosening, or breakage of the device(s). It is important that immobilization of the hip surgical site be maintained until firm bony union is established and confirmed by roentgenographic examination.
- The patient must be adequately warned of these hazards and closely supervised to ensure cooperation until bony union is confirmed. The patient must be made to understand that artificial joint replacement implants are always inferior to the function of the natural joint, and only a relative improvement of the preoperative condition can be achieved.
- The patient must be explained that an artificial joint can loosen due to overloading, wear and tear, or infection. Implant loosening can necessitate a revision operation that, under some circumstances, offers no opportunity to restore joint function again. Any retrieved devices should be treated in such a manner that reuse in another surgical procedure is not possible. As with all orthopaedic implants, none of the Intramedullary Tibia Nails should ever be reused under any circumstances. Reuse may lead to infection and cross infection.
- Orthopedic surgeries do not generally involve major risks and complications. Orthopedic Surgeons are properly trained to avoid potential difficulties which might occur during an intervention, as well as to efficiently correct such problems if they appear. However, some of the risks and complications which may accompany an orthopedic surgical procedure are:
 - **Postoperative infections:** In order to avoid this complication, patients will be administered antibiotics before, during and after the surgery. If a patient has an ongoing infection (throat, urinary, dental etc.), it is highly recommended to treat it before the intervention, as it can reach your joint and a late infection could develop months or even years following orthopedic surgery.
 - Bleeding

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- **Blood clots:** They may occasionally appear after orthopedic surgery. Blood clots can be avoided with appropriate medication and physical exercise.
- **Blood vessel damage:** This complication may appear if blood vessels located in proximity to the implant are affected during the procedure.
- **Allergic reactions:** The patient might experience an allergic reaction to the metal components or cement used to fix the implant (titanium, stainless steel etc.)

Packaging

Packages for each component should be intact upon receipt. If a consignment system is used, all sets should be carefully checked for completeness and all components should be carefully checked for lack of damage before use. Damaged packages or products should not be used, and should be returned to AUXEIN MEDICAL PVT LTD.

Decontamination

In case of implants user didn't require to do any kind of de-contamination as manufacturer has already provided the sterile implant.

All instruments that have been taken into a surgical field must first be decontaminated by using steam autoclaving process and reintroduction into a sterile surgical field.

The following method has been validated and recommended by the company:

Method:	Steam Sterilization (Autoclaving)
Temperature	Minimum 121 Degree Centigrade
Exposure Time:	20 minutes
Pressure	15 Psi
Cycle Type	Vacuum Type

Note: FDA Approved wrap or clothes shall be used for sterilization.

Sterilization

AUXEIN MEDICAL'S Intramedullary Tibia Nailing is supplied Sterile. A sterility assurance level SAL 10^{-6} was achieved using gamma irradiation sterilization with minimum dose of 25kGy. Check the integrity of the packaging and labeling before opening the pack.

Storage


Store the implants at a dry place. Care should be taken in the handling and storage of the implant components. The implants should not be scratched or otherwise damaged. Implants and instruments should be protected during storage especially from corrosive environments. The implant surfaces should not be scratched or notched, since such actions may reduce the functional strength of the construct and the temperature range shall be 10°C to 30°C.

Disposal

The Orthopedic implant is to be disposed off as per the Hospital and Regulatory norms.

Product Complaint

Customers or users of products, who have any complaints or who have experienced any dissatisfaction in the product quality, identity, durability, reliability, safety, effectiveness and/or

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performance, should notify the Manufacturer, AUXEIN MEDICAL or EU Representative. Further, if any of the implanted Intramedullary Tibia Nailing system ever "malfunctions," (i.e., does not meet any of its performance specifications or otherwise does not perform as intended), or is suspected of doing so, the Manufacturer or EU Representative should be notified immediately.


If any AUXEIN MEDICAL's product ever "malfunctions" and may have caused or contributed to the death or serious injury of a patient, the distributor should be notified immediately by telephone, fax or written correspondence. When filing a complaint, please provide the component(s) name and number, lot number(s), your name and address, the nature of the complaint and notification of whether a written report from the distributor is requested.

Further Information





Recommended directions for use of this system (surgical operative techniques) are available at no charge upon request. If further information is needed or required, please contact your representative or distributor or contact the manufacturers direct.


Details of various Symbols used in Labeling

Symbol	Symbol Title	Description	Standard Title	Reference Number
	Date of Manufacture	Indicates the date when the medical device was manufactured.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels—General requirements.	5.1.3
	Manufacturer	Indicates the medical device manufacturer, as defined in EU Directives 93/42/EEC.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels—General requirements.	5.1.1
	Authorized representative in the European community	Indicates the Authorized Representative in the European Community.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels—General requirements.	5.1.2
	Reorder Number	Indicates the manufacturer's catalogue number so that the medical device	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device	5.1.6








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		can be identified.	labels— General requirements.	
	Conformité Européene (European Conformity)	CE Marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation.	Directive 93/42/EEC.	N/A
	Batch Code	Indicates the manufacturer's batch code so that the batch or lot can be identified.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels—General requirements.	5.1.5
	Do Not Reuse	Indicates a medical device that is intended for one use or for use on a single patient during a single procedure.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.4.2
	Keep Dry	Indicates a medical device that needs to be protected from moisture.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.3.4
	Keep away from the sunlight	Indicates a medical device that needs protection from light sources	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.3.2



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	Consult instructions for use	Consult instructions for use	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.2.3
	Do not use if package is damaged.	Indicates a medical device that should not be used if the package has been damaged or opened.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.2.8
	Do not re-sterilize	Indicates a medical device that has already subjected to a sterilization process, so do not re-sterilize.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.2.7
	Sterilized using irradiation	Indicates a medical device that has been sterilized using irradiation.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.2.4
	Temperature limit	Indicates the temperature limits to which the medical device can be safely exposed.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.3.7
	Quantity	Indicates quantity of medical devices contained within the packaging.	N/A	N/A
	Material	Indicates the Material from which medical device is manufactured.	N/A	N/A

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	Use by date	Indicates the date after which the medical device is not to be used.	ISO & ANSI/AAMI/ISO 15223-1 Medical devices—Symbols to be used with medical device labels— General requirements.	5.1.4
	Prescription only	The symbol for Prescription Device Caution: Federal (USA) law restricts this device to sale by or on the order of a surgeons.	N/A	N/A



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Single Registration Number: IN-MF-000018837

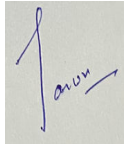

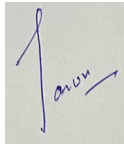

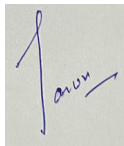

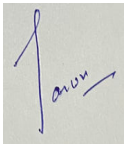



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Revision Table:

S. No.	Document No	Rev. No.	Description of Revision	Effective date	Prepared by	Approved by
1.	AMPL-IFU-TNS/S-04	00	Initially released.	08-07-2019		
2.	AMPL-IFU-TNS/S-04	01	IFU has been updated as per the DNV Audit Project Number PRJC-500995-2014-MSL-IND	12-04-2021		
3.	AMPL-IFU-TNS/S-04	02	IFU Format is Updated	21-09-2022		
3.	AMPL-IFU-TNS/S-04	03	IFU Format is Updated	08-10-2022		
4	AMPL-IFU-TNS/S-04	04	Table of Symbols is updated, SRN Number is added	18-03-2022	