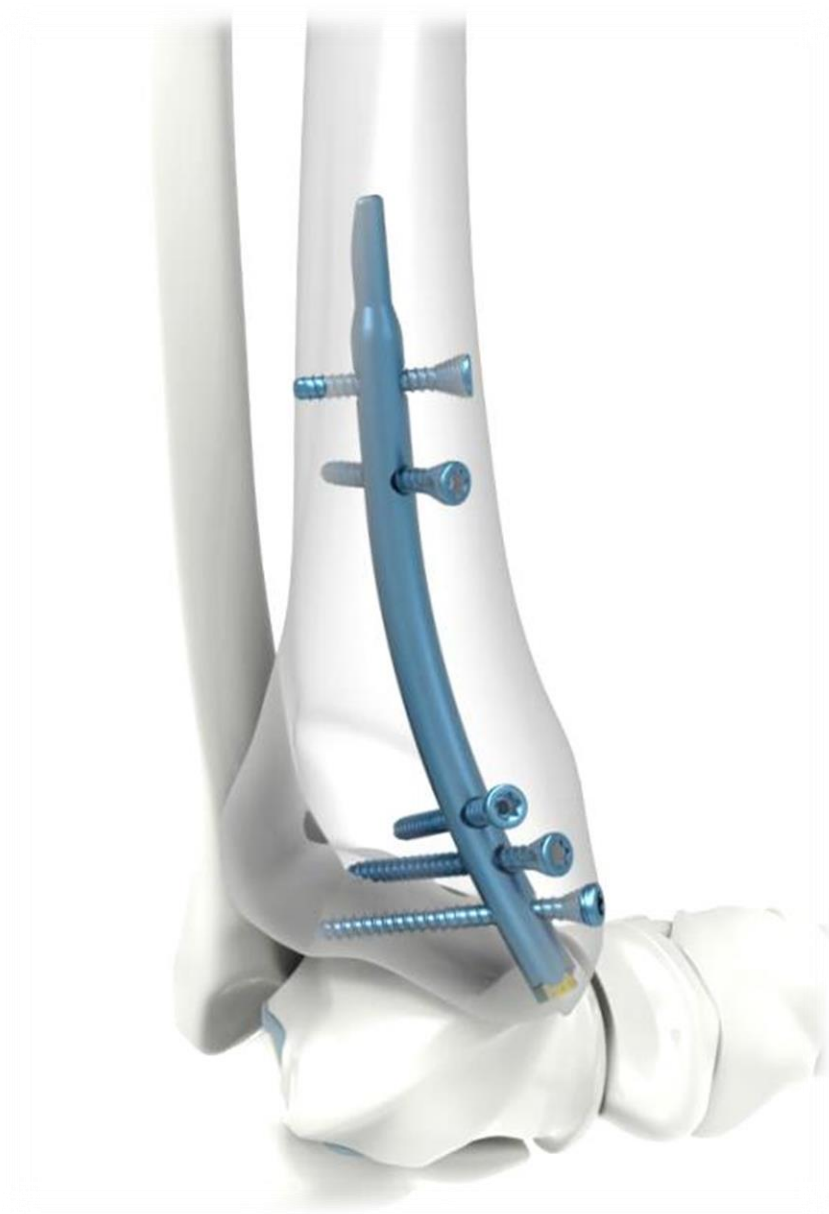


LUNANA

Retrograde Distal Tibia Nailing (DTN) System

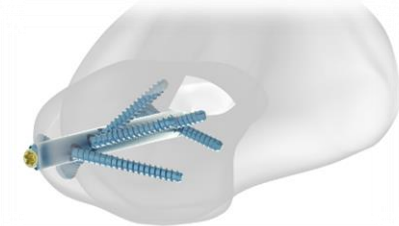


INTRODUCTION

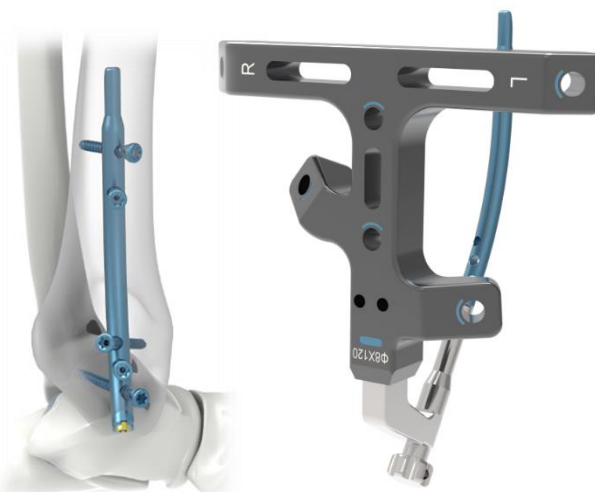
Distal tibia fractures represent a notable occurrence in clinical practice, constituting approximately 10% of all tibia fractures and 1.5% of all adult fractures. In recent years, the incidence of distal tibia fractures has significantly increased. Recent biomechanical studies have highlighted retrograde distal tibia nail (DTN) as an innovative surgical alternative for managing distal tibia fractures, demonstrating its potential superiority over plating techniques. First, the distal curved configuration of the DTN aligns more harmoniously with the distal tibia morphology. Biomechanically, retrograde DTN exhibits superior resistance to rotation and axial stability compared to antegrade tibia intramedullary nails and plates. The successful achievement of fracture healing without distal tibia valgus deformity in all DTN patients underscores the commendable stability of this technique. Second, DTN simplifies fracture reduction and fixation, offering greater convenience with a high accuracy in its locking nail aiming device, thereby reducing the operation time and radiation exposure. Third, the limited length of the DTN ensures that the nail does not traverse the isthmus of the tibia shaft, resulting in reduced influence on the bone marrow cavity. This feature can reduce the risk of fat embolism. Finally, DTN employs the medial ankle as the entry point, effectively averting anterior knee pain. Postoperative AOFAS results confirmed its minimal impact on the ankle joint.

System Features

- Three distal divergent locking screws, provide effective support/fixation.
- Two proximal angled locking screws, avoid fracture rotation and displacement.
- Special anatomical curvature, ensure the nail is in the optimal position of medullary cavity.
- Distal flat cutting design, avoid insertion difficulties.
- Proximal oblique cutting design, reduce irritation to soft tissues of medial malleolus.
- Radiolucent Targeting Device provides unobstructed view during operation, and one targeting device can be used for proximal and distal screw insertion without the need to replace the targeting device during the operation.
- Special perspective positioning device locates the fixed position of the locking screws, prevent screws from entering into the articular surface.

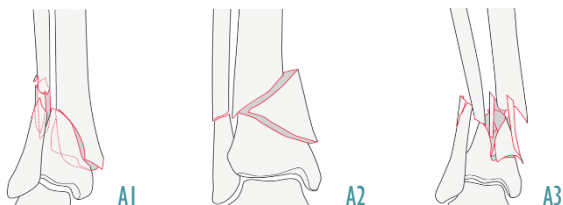


- Specialized locking screws with dual core shaft for better purchase in osteoporotic bone.

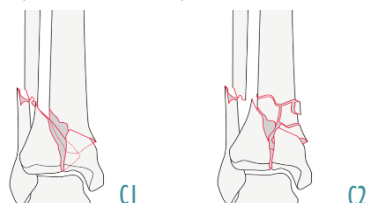


Indications

- Closed and open distal tibia fractures or one-fifth of the distal tibia fractures and the metaphyseal fractures (AO/OTA 43.A1/A2/A3)

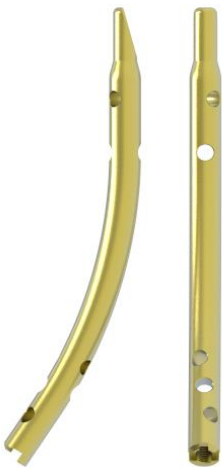


- Distal tibia fractures, simply involves the ankle joint (AO/OTA 43.C1/C2)



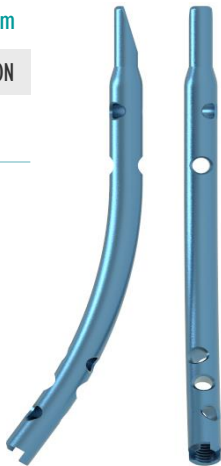
IMPLANT INFORMATION

[Material in Titanium Alloy (Ti-6Al-4V)]



LUNANA™ Retrograde Distal Tibia Nail 7.0 mm

REF (TIT)	DIA (mm)	LEN (mm)	DIRECTION
MOI 31203110	7.0	110	LEFT
MOI 31204110	7.0	110	RIGHT



LUNANA™ Retrograde Distal Tibia Nail 8.0 mm

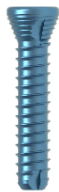
REF (TIT)	DIA (mm)	LEN (mm)	DIRECTION
MOI 31205120	8.0	120	LEFT
MOI 31205140	8.0	140	LEFT
MOI 31206120	8.0	120	RIGHT
MOI 31206140	8.0	140	RIGHT



LUNANA™ Cortex Screw 3.5 mm

REF (TIT)	DIA (mm)	LEN (mm)
MOI 31207018	3.5	18
MOI 31207020	3.5	20
MOI 31207022	3.5	22
MOI 31207024	3.5	24
MOI 31207026	3.5	26
MOI 31207028	3.5	28
MOI 31207030	3.5	30
MOI 31207032	3.5	32

For distal tibia nail 7.0 mm



LUNANA™ Cortex Screw 4.0 mm

REF (TIT)	DIA (mm)	LEN (mm)
MOI 31208018	4.0	18
MOI 31208020	4.0	20
MOI 31208022	4.0	22
MOI 31208024	4.0	24
MOI 31208026	4.0	26
MOI 31208028	4.0	28
MOI 31208030	4.0	30
MOI 31208032	4.0	32

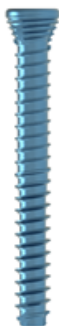
For distal tibia nail 8.0 mm



LUNANA™ Cancellous Screw 3.5 mm

REF (TIT)	DIA (mm)	LEN (mm)
MOI 31209030	3.5	30
MOI 31209032	3.5	32
MOI 31209034	3.5	34
MOI 31209036	3.5	36
MOI 31209038	3.5	38
MOI 31209040	3.5	40
MOI 31209042	3.5	42
MOI 31209044	3.5	44
MOI 31209046	3.5	46
MOI 31209048	3.5	48
MOI 31209050	3.5	50

For distal tibia nail 7.0 mm



LUNANA™ Cancellous Screw 4.0 mm

REF (TIT)	DIA (mm)	LEN (mm)
MOI 31210036	4.0	36
MOI 31210038	4.0	38
MOI 31210040	4.0	40
MOI 31210042	4.0	42
MOI 31210044	4.0	44
MOI 31210046	4.0	46
MOI 31210048	4.0	48
MOI 31210050	4.0	50
MOI 31210052	4.0	52

For distal tibia nail 8.0 mm



LUNANA™ End Cap

REF (TIT)	SIZES
MOI 31211000	0
MOI 31211005	5



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