

APFAN

Advanced Proximal Femur Antirotational Nail



System Overview :

Advanced Proximal Femur Antirotational Nail systems are designed for the management of unstable proximal femoral fractures, including intertrochanteric and subtrochanteric patterns.

They provide stable intramedullary fixation with enhanced rotational control, ensuring accurate alignment and fracture stability. The system supports a minimally invasive technique, helping reduce operative time, blood loss, and physiological stress—particularly beneficial in elderly patients.

Indications :

- Proximal femur fractures with shaft extension.
- Intertrochanteric fractures (stable/unstable).
- Subtrochanteric fractures. Basal neck fractures.
- Pathological fractures and prophylactic fixation.
- Nonunion, malunion, and revision cases.

Nail Options:

Short & long nails based on fracture pattern.
Long nails shaft involvement / extra stability.

Cement Augmentation:

The system supports cement augmentation through a Blade screw, allowing controlled delivery of bone cement to enhance fixation in osteoporotic or compromised bone.

Contraindications (with PMMA Bone Cement)

- Risk of intra-articular cement leakage.
- Acute traumatic fractures with good bone quality.
- Intracapsular hip fractures.
- Presence of active infection.



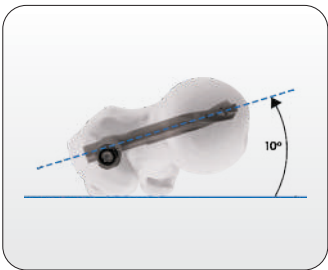
Contraindications (Cement Use)

- Risk of cement leakage.
- Intracapsular hip fractures.
- Active or untreated infection.
- Severe cardiac or pulmonary conditions.
- Known allergy to cement components.
- Pediatric, pregnant, or lactating patients.
- Arthroplasty procedures.
- Acute fractures with good bone quality.



Features: APFAN- Long Nail

- Distal diameter options 9 mm, 10 mm, 11 mm, 12 mm.
- Preassembled locking mechanism for precise control of blade rotation and axial blade travel.
- Supports static (rigid) fixation or dynamic interlocking, enabling controlled dynamization of up to 10 mm.
- Side-specific nail design for left and right femurs.



Anatomic 10° anteversion to facilitate optimal implant positioning.

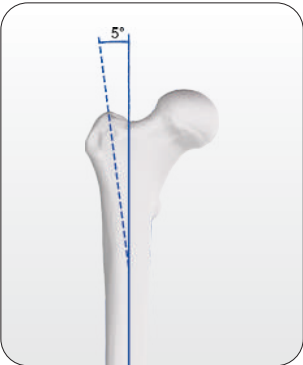
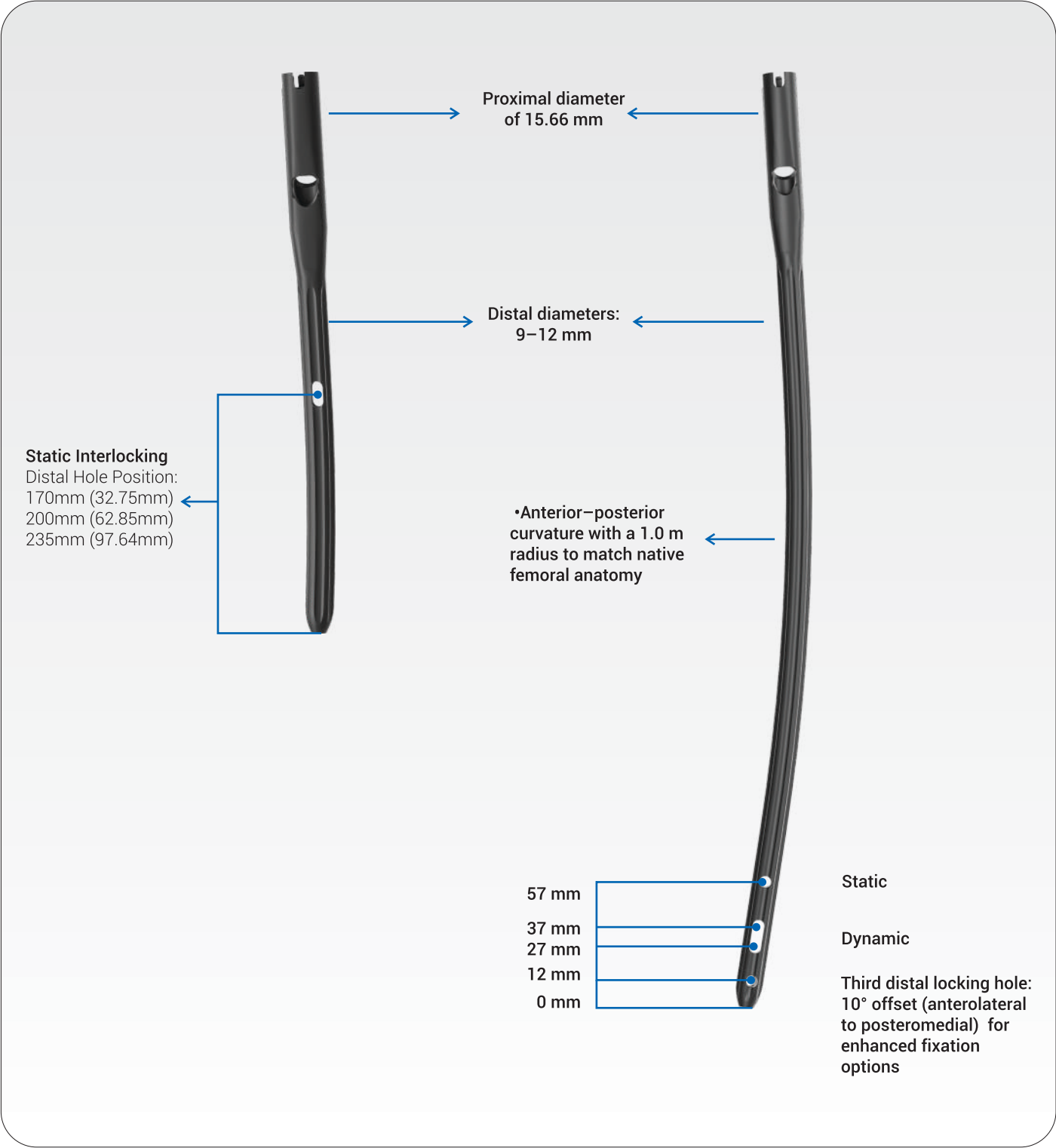


Dynamic interlocking, enabling controlled dynamization of up to 10 mm.

APFAN - Short Nail

- Proximal diameter of 15.66 mm.
- Anatomic 5° lateral angle.
- Distal diameters of 9 mm, 10 mm, 11 mm, and 12 mm.
- Preassembled locking mechanism for precise control of blade rotation and axial blade travel.
- Static interlocking.

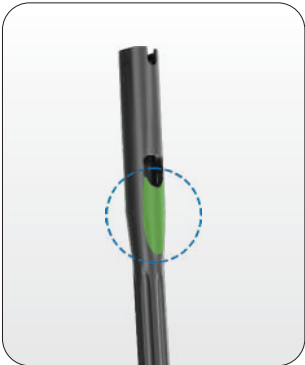




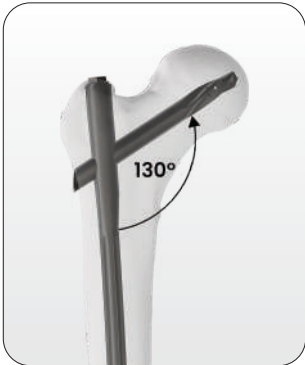
Anatomical 5° lateral angle for accurate entry and improved alignment



Preassembled locking mechanisms for precise control of blade rotation and axial blade travel.



Relief cut to reduce stress concentration and improve implant fit



Anatomic 130° Neck-Shaft Angle (CCD) for optimal alignment and load distribution

APFAN - Long Nail



Dia 9mm NT498.09 | 320-420 (R/L)
Dia 10mm NT498.10 | 320-420 (R/L)
Dia 11mm NT498.11 | 320-420 (R/L)
Dia 12mm NT498.12 | 320-420 (R/L)
Length Increment by 20 mm

APFAN - Short Nail



Dia 9 mm NT497.09 | 170 | 200/235 (R/L)
Dia 10 mm NT497.10 | 170 | 200/235 (R/L)
Dia 11 mm NT497.11 | 170 | 200/235 (R/L)
Dia 12 mm NT497.12 | 170 | 200/235 (R/L)



APFAN - Blade



Length 75 to 120 mm
(5mm Increment)
Available in BNT499.75 to 120mm

APFAN - End Cap



Length 0 to 15 mm
(5mm Increment)
Available in ECT501.00mm
to ECT501.15mm

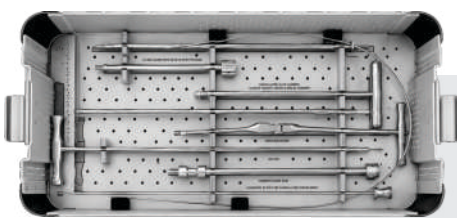
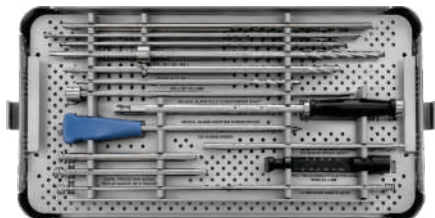
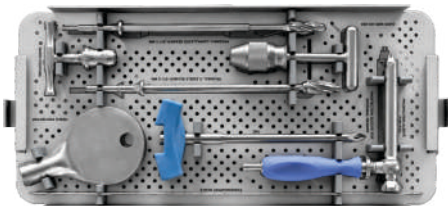
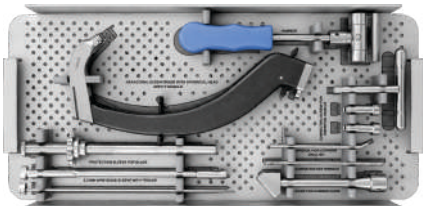
Ø 5.0 mm Advanced IM
Nail Screw



Length 26 to 70 mm
(2mm Increment)
Available in ST461.26mm
to ST461.70mm

Length 75 to 100 mm
(5mm Increment)
Available in ST461.75mm
to ST461.100mm

Instrument Set



Miraclus Orthotech Pvt. Ltd.

Survey No. 106, Village Vavdi, Opp. Safex Industries,
Behind Elite Boarding School, Vavdi,
Ta. Kheda-387550, Gujarat, India