

# FEMUR NECK FIXATION SYSTEM Advanced Fixation for Femoral Neck Fracture Healing





ISO 13485

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### Femur Neck Fixation Plate with Support:

- Designed at a 130° angle to closely fit to the bone structure.
- Ensures angular stability by fixing the angle with plate to Blade & shaft screw.
- Accommodates standard 5.0 mm locking and shaft screws.
- Minimizes the implant footprint on the bone, offering a compact alternative to three cannulated screws

### Controlled collapse

- The implant offers up to 20 mm of controlled collapse, with end caps available in 6, 8, 10, 12, 14, and 16 mm sizes. For example, an 8 mm compression requires a 12 mm end cap. This allows for compression to be adjusted in 2 mm of increments (4, 6, 8, 10, 12, 14, and 20 mm), ensuring a controlled collapse.
- By allowing controlled compression, the system can enhance the contact between bone fragments, promoting better bone healina.
- Allowing for slight movement can help in accommodating the natural micro-movements that occur during weightbearing, which helps in the biological healing process.

### Advantages of FNF System Over DHS and CC Screw Fixation

- No Insertional Torque: Reduces the risk of malrotation during insertion.
- Compact Design: Smaller incision and shorter operation time with fewer surgical steps; suitable for patients with a narrow femoral neck.
- Higher Resistance to Varus Collapse:
- Offers greater stability compared to fixation with three cannulated screws.
- Minimized Soft Tissue Irritation:

Implant collapse does not result in lateral protrusion. reducing the risk of soft tissue irritation.

- 3 Point Stabilization
- Stable Fixation:
- It reduces micro-motion at the fracture site, which is crucial for proper healing. • Even Distribution of Forces:
- It helps in evenly distribution of mechanical forces across the fracture site to reduce stress concentrations at any single point
- Prevents Rotational Instability: It is susceptible to rotational forces, especially during walking. It counters these forces to maintain fracture alignment and promote healing.
- Enhanced Compression:
- With multiple points of fixation, it's easier to achieve and maintain compression across the fracture site. This compression is essential for primary bone healing, as it encourages bone contact and stabilization
- Reduction in Complications:
- It is more robust and stable fixation, the risk of complications such as non-union, malunion, and implant migration can be significantly reduced.

### Prevention of Varus Collapse & Enhanced Angular Stability:

The femoral neck is prone to varus collapse under weight-bearing forces. The combination of the plate, blade, and two supporting shaft screws provides robust support against these forces, maintaining the correct anatomical alignment and preventing varus collapse. This configuration also enhances angular stability, ensuring proper alignment throughout the healing process.



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Manufacturing Facility :

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