



**SORATH ORTHO**

A DIVISION OF SIGMA SURGICAL

# HYBRID LOCK HUMERUS NAIL

*Innovative Humerus Fracture Care Solutions*

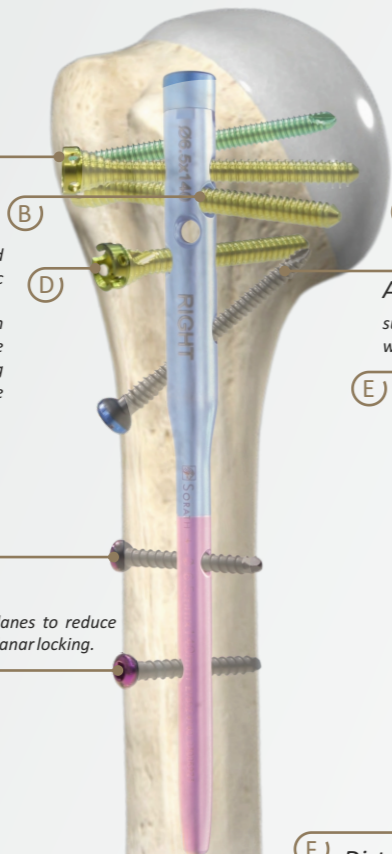


ISO 13485

[www.sorathortho.co.in](http://www.sorathortho.co.in)

**A) Proximal Locking Lateral Screws: levels A, B and D**

- provides multiple points of fixation in the head through the greater tuberosity. They ensure basic stability of the construct.
- Additional screw-in-screws may be inserted through the screw heads of the lateral screws to increase stability especially in osteopenic bone. These locking screws are aimed posteriorly where increased bone density may be present



**C) Proximal Anterior screw: level C** may be used with a lesser tuberosity fragment if the fragment is large enough to accommodate the screwhead. Do not insert a 3.5 mm locking screw in this hole.

**E) Option 1 Ascending screw: Level E** supports the medial calcar region which can be helpful in medially comminuted fractures.

**E) Option 2 Compression screw: Level E** (only for Long Nails) used for the compression of transverse or short oblique fractures.

**F) Distal locking Screws: Levels F and G**

The two distal locking screws are located in different planes to reduce implant toggling in the humeral canal, compared to monoplanar locking.

**G)**

**F) Distal locking screws: Levels F, G & H**

located in two different planes to reduce implant toggling and increase stability of the osteosynthesis. The locking planes are situated in anatomical AP (Levels F and H) and lateral oblique directions, at 25 degrees to each other (level G).

**H)**



**Bicortical Compression: Long Nail**

- Designed to increase fracture stability in transverse and short oblique fractures

**Distal Locking: Long Nail**

- Designed to be in the safe zone between the median and the radial nerve
- Two distal locking options in the anatomic AP direction, designed to facilitate free hand locking

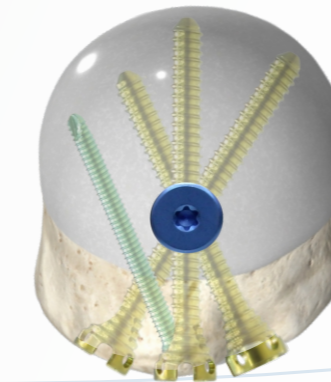


**Smart instrumentation**

- enables a straight-forward procedure
- Intelligently designed instrumentation simplifies procedures and saves valuable OR time.
- color coding leads the way for less searching and easy assembly.
- self-holding mechanisms facilitate handling of sleeves and screwdrivers.
- while innovative flippable aiming arms reduce inventory and costs.

**Straight Nail With Central Insertion Point**

- Designed to avoid potential insertion through the fracture site, increasing biomechanical stability
- Designed to avoid the sulcus between greater tuberosity and humeral head where the supraspinatus tendon inserts



**Color Indications for Easy Screw Size Selection**

- The blue color indicates the use of a 4.0 mm interlocking bone screw with a blue-colored head.
- The pink color indicates the use of a 3.5 mm interlocking bone screw with a pink-colored head.



**Secure Fixation**

Utilizing a star-drive mechanism to ensure maximum torque transmission and improved self-containment.

**Threaded Interlocking Screw Head Recess**

for secure attachment with cannulated screwdriver using Screw holding shaft.



**HybridLock Screws**

- Unique screw-in-screw option, for improved stability where needed
- Blunt screw tips to reduce risks associated with secondary screw perforation
- Four suture holes per screw, for attachment of rotator cuff tendons

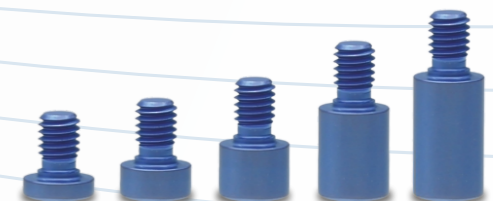


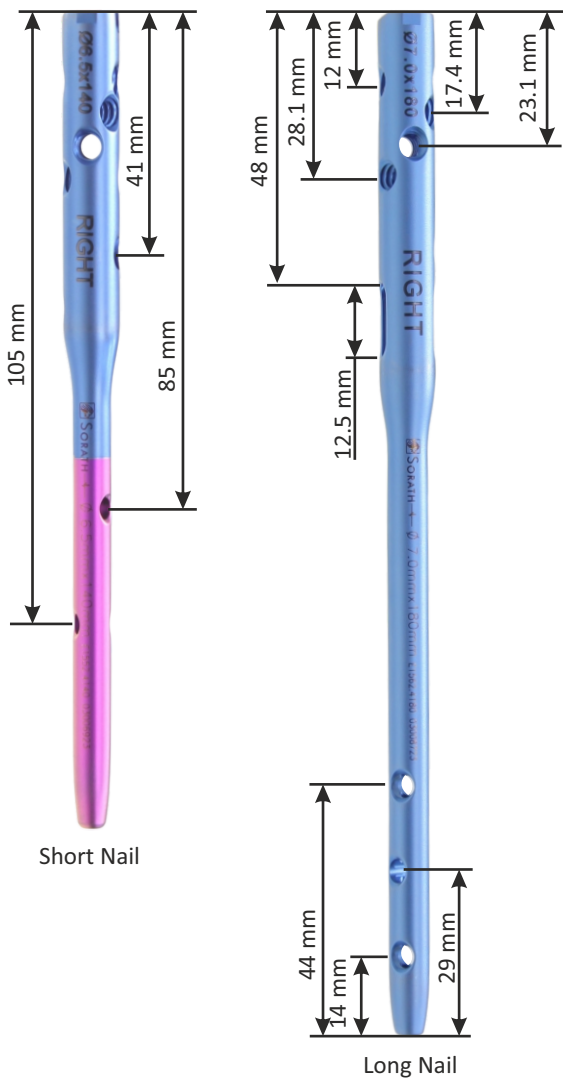
**Proximal Fixation**

The ascending calcar screw and the 3.5 mm screw-in-screw options designed to increase resistance to head migration, varus deformation and greater tuberosity rotation

**End Cap for Nail**

- Length : 0, 2, 5, 10 & 15 mm
- T30 Stardrive Recess
- Protects nail threads from tissue ingrowth
- Extends nail height if nail is overinserted





Short Nail

Long Nail

## HybridLock Humerus Nail

- 120 - 180 mm (20 mm variation in size), 220 mm, 235 mm, 255 mm, 270 mm, 285 mm
- 6.0 mm E15424120 to E15424285 (Ti)(R) E15421120 to E15421285 (SS)(R)
  - 6.5 mm E15524120 to E15524285 (Ti)(R) E15521120 to E15521285 (SS)(R)
  - 7.0 mm E15624120 to E15624285 (Ti)(R) E15621120 to E15621285 (SS)(R)
  - 7.5 mm E15724120 to E15724285 (Ti)(R) E15721120 to E15721285 (SS)(R)
  - 8.0 mm E16624120 to E16624285 (Ti)(R) E16621120 to E16621285 (SS)(R)
  - 8.5 mm E16724120 to E16724285 (Ti)(R) E16721120 to E16721285 (SS)(R)
  - 6.0 mm E15414120 to E15414285 (Ti)(L) E15411120 to E15411285 (SS)(L)
  - 6.5 mm E15514120 to E15514285 (Ti)(L) E15511120 to E15511285 (SS)(L)
  - 7.0 mm E15614120 to E15614285 (Ti)(L) E15611120 to E15611285 (SS)(L)
  - 7.5 mm E15714120 to E15714285 (Ti)(L) E15711120 to E15711285 (SS)(L)
  - 8.0 mm E16614120 to E16614285 (Ti)(L) E16611120 to E16611285 (SS)(L)
  - 8.5 mm E16714120 to E16714285 (Ti)(L) E16711120 to E16711285 (SS)(L)



## Interlocking Bone Screw Dia. 3.5 mm

- 26 - 50 mm (2 mm Variation in size)  
A25104026 to A25104050 (Ti) A25101026 to A25101050 (SS)



## Interlocking Bone Screw Dia. 4.0 mm

- 24 - 50 mm (2 mm Variation in size), 55 - 60 mm (5 mm Variation in size)  
A20904024 to A20904060 (Ti) A20901024 to A20901060 (SS)



## HybridLock Screw, Dia 4.5 mm

- 22 - 50 mm (2 mm Variation in size)  
A21404022 to A21404050 (Ti) A21401022 to A21401050 (SS)



## Twin Lock - BCP Screw, Dia 3.5 mm, Torx

- 26 - 50 mm (2 mm Variation in size)  
A16504026 to A16504050 (Ti) A16501026 to A16501050 (SS)



## End Cap for HybridLock Humerus Nail

- 00 - 15 mm (5 mm Variation in size)  
E16204000 to E16204015 (Ti) E16201000 to E16201015 (SS)

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 \* Sigma Surgical is not responsible for differences between the information in the Catalogue and the actual implants.

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