



Metaphyseal Plates
Surgical Technique



ASTROLABE

life and mobility

Medical Implants

Astrolabe recognizes that proper surgical procedures and techniques are responsibilities of medical professionals.

The following guidelines are provided for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on their medical training, experience and condition of the patient. Before using the system, the surgeon must consult the operating instructions for additional warnings, precautions, indications, contraindications and adverse effects.

General Features

- Astrolabe Metaphyseal plates combines fixations of standard screws and angular screws in order to attend multiple surgical demands.

- **General Indications:**

Astrolabe Metaphyseal Plates set is designed to attend extra articular fractures in metaphyseal area, as humerus proximal and distal fractures and distal tibial fractures, that extends into the shaft.

Metaphyseal Plates

Special Locking Plate

Metaphyseal
Small Fragments
06 to 18 Holes



Special Locking Plate

Metaphyseal
Large Fragments
08 to 20 Holes



Metaphyseal Screws

Cortical Screw Ø3.5mm



(15.04.01.35010 - 15.04.01.35060)
10mm - 60mm, 2mm increments
45mm - 55mm, 5mm increments

Shaft Screw Ø3.5mm



(15.38.01.35016 - 15.38.01.35060)
16mm - 50mm, 2mm increments
55mm - 60mm, 5mm increments

LockingScrew Ø3.5mm



(15.14.01.35010 - 15.14.01.35060)
10mm - 60mm, 2mm increments
45mm - 55mm, 5mm increments

Cortical Screw Ø4.5mm



(15.04.01.45010 - 15.04.04.45100)
10mm - 70mm, 2mm increments
55mm - 100mm, 5mm increments

Shaft Screw Ø4.5mm



(15.38.01.45016 - 15.38.01.45100)
16mm - 50mm, 2mm increments
55mm - 100mm, 5mm increments


Locking Screw Ø4.0mm



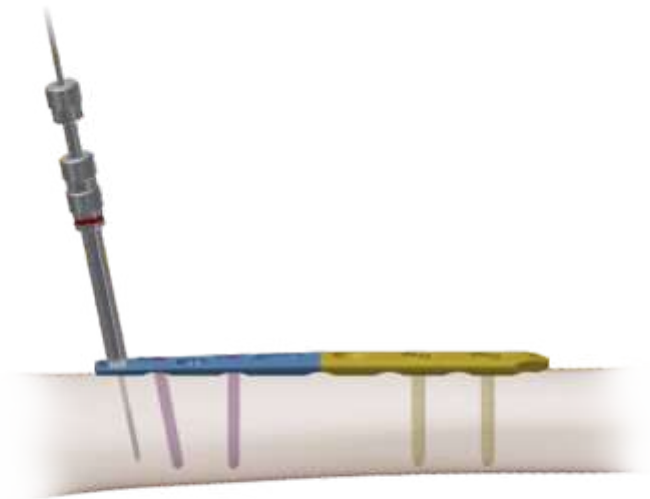
(15.14.01.40014 - 15.14.01.40062)
14mm - 62mm, 2mm increments
35mm - 55mm, 5mm increments

STEP 01

Surgical Technique

 **WARNING:** Please check the instruments of the **Small Fragments** and **Large Fragments** kits to proceed with the positioning of the plate and screws of the Metaphyseal Plates.

- After choosing the appropriate plate, it can be moulded to better fit patient's anatomy.
- The plate can be temporarily placed by using Kirschner Wires.
It will be helpful to determine the direction of the screws.
Centering Sleeves (Small or Large Fragments) can be used to position Kirshner Wires.



NOTE: In Minimally Invasive procedures, the use of two Threaded Drill Sleeves properly attached in thinner part of the plate, will be helpful on the insertion of the plate.



STEP 02

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Locking Screws Insertion

- Use appropriate Drill Sleeve properly attached to the plate and proceed with drilling with appropriate Graduated Drill Bit.
- The reading of screw measure can be acquired directly on Drill Sleeve with Graduated Drill Bit.
- Use appropriate Torque Limiter and Shaft Screwdriver attached to the power tool and proceed insertion of the screw. Stop the motor before total insertion and locking.



STEP 03

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- For the final tightening and locking of screws, use appropriate Torque Limiter and Shaft Screwdriver attached to the Handle.
- The procedure of placement of the screws is repeated as many times as necessary, for optimal fixation of the plate.





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