

## **Surgical Technique**

***3.5mm Wise-Lock Metaphyseal plate for distal medial humerus***

## Wise-Lock Metaphyseal Plate 3.5.

For distal medial humerus.

### Features and benefits

#### Anatomically precontoured plate

The anatomical shape of the plate has been especially designed to fit the complex shape of the medial part of the distal humerus.



#### Thinned plate profile

Truly in the sense of Wise-Lock metaphyseal plates, the distal part of the plate is tapered to preserve the thin soft tissue envelope of the distal humerus.

#### Notches on the plate shaft

The notches allow for additional lateral bending of the plate to deal with the wide anatomical variance of the humeri. The plate can be bent at max. 4° at each notch.



#### Wise-Lock combi-holes

The Wise-Lock combi-hole allows an internal plate fixation using standard screws, angular stable locking screws or a combination of both. This takes into account the most diverse intraoperative requirements and ensures high fixation stability.

#### Optimal distal application of the locking screws

The distal end of the plate has been equipped with three threaded round holes intended for angular stable locking screws. Their specific orientation in combination with the thin plate profile allows stable fixation of the condylar zone and the articular surface while fully preserving the soft tissue, without any risk of screws penetrating the articulation.

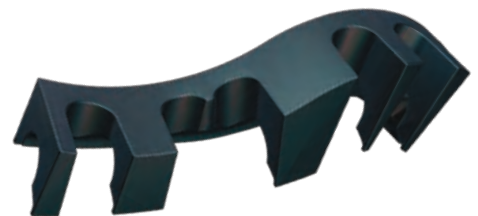


#### Increased hole density for improved anchorage

The three distal Wise-Lock round holes allow inserting the screws closer to one another and hence an optimal fixation of the bone fragments.

#### Aiming block

The aiming block allows an easy and correct insertion of the drill sleeves in the distal part of the plate. The aiming block can be removed or placed back onto the plate even with the drill sleeves in place. If desired, standard screws can be inserted before placing the aiming block.



#### Additional design features

- Bullet nose plate tip for easier application of the minimally invasive surgical technique.
- Temporary fixation can be achieved effortlessly through the Kirschner wire hole in the bullet nose.
- The elongated hole in the shaft facilitates fine tuning of the reduction and plate positioning in the longitudinal axis.
- Improved vascularization of the bone due to plate undercuts that reduce the plate-to-bone contact.

## Indications

The Wise-Lock Metaphyseal Plate is an anatomically precontoured plate that permits an optimal treatment of juxta-articular distal humerus fractures. It takes into account the following peculiarities of the distal humerus:

- thin soft-tissue envelope
- complex shape of the bone

## Surgical steps

### Implant preparation

Place the Aiming Block onto the plate. Thread the threaded Wise-Lock Drill Sleeve through the aiming block into the plate. Remove the aiming block, if desired.

Precise contouring of the plate is unnecessary. Take the screw direction into consideration when plate bending is required.

Use the Centering Sleeve for Kirschner Wires and insert the Kirschner wires to determine the direction of the screws or to temporarily fix the plate to the bone. For temporary fixation, it is also possible to insert a Kirschner wire through the hole in the bullet nose.

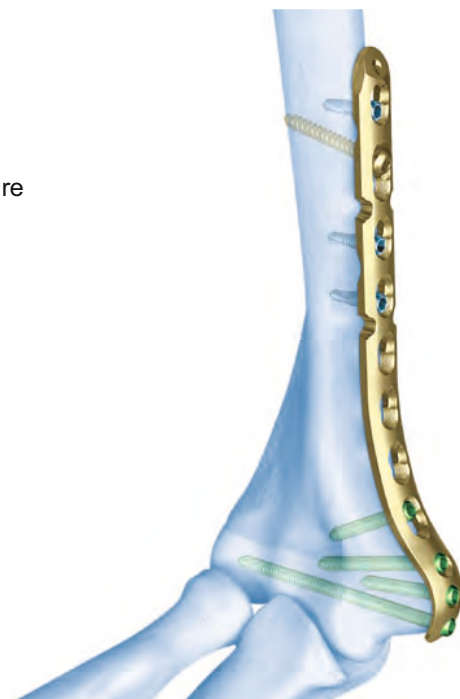


### Plate fixation

The direction of the threaded holes in the distal part of the plate has been optimized to improve the anchorage in the bone.

Use the appropriate aiming block and Wise-Lock drill sleeves to ensure correct insertion and locking of the locking screws in the distal part of the plate.

Use 3.5 mm locking screws, 3.5 mm cortex screws, 4.0 mm cancellous bone screws or a combination thereof in the shaft.





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