

Surgical Technique

3.5mm Wise-Lock Olecranon plate

Wise-Lock Olecranon Plate. The anatomical fixation system with angular stability for olecranon and proximal ulnar fractures.

Anatomically precontoured

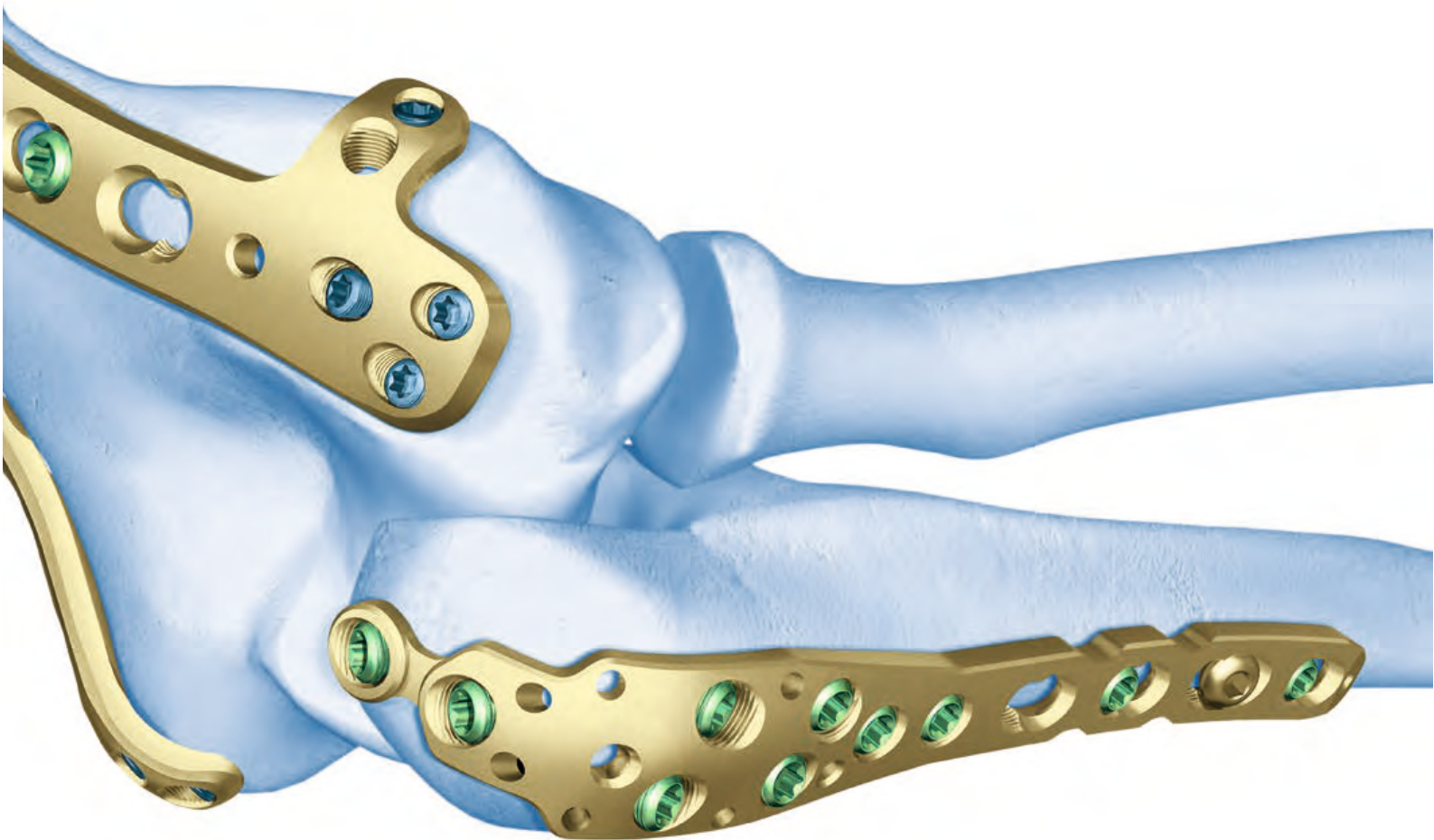
- Plates are precontoured for anatomical fit.
- Notches in the plate shaft to allow the plate to be shaped to the individual anatomy of the bone.
- The tab can be cut off if not required.

Designed for patient comfort

- The proximal, spoon-shaped part of the plate is slightly thinner than the shaft.
- The position and angle of the screws are anatomically adapted to allow reduction of fractures.

Allows MIS technique

The Wise-Lock Olecranon Plate System provides stable fracture fixation aiming at preserving vascular supply. This helps to create an improved environment for bone healing, helping to accelerate patient's return to previous mobility and function.



Indications and Contraindications

Indications

- Complex extra- and intra-articular olecranon fractures
- Pseudoarthroses of the proximal ulna
- Osteotomies
- Simple olecranon fractures

Contraindications

- Acute infections
- Children in growth phase

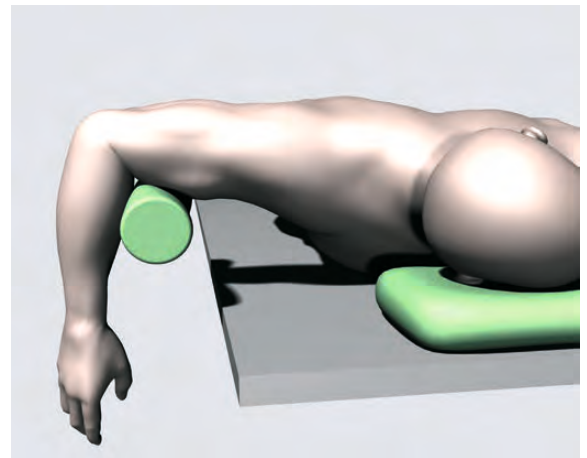
Implantation

Position the patient

Place the patient either in the prone or the lateral position with the elbow flexed over a side rest. Depending on the fracture, use a posterior access up to approximately 5 cm distal from the supracondylar region.

The supine position with the forearm placed across the chest is an acceptable option, especially with extended approaches to the lateral pillar or column.

Note: The position is chosen by the surgeon depending on his or her preference.



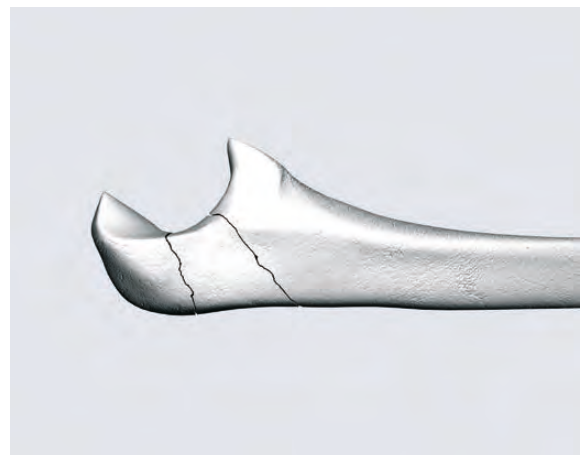
Surgical approach

The incision runs posterior from the supracondylar area to a point 4 or 5 cm distal to the fracture. It can be slightly curved to the radial side to protect the ulnar nerve.

Reduce the fracture and provide temporary fixation

Reduce the fracture directly or indirectly depending on the type of fracture. Examine the reduction of the coronoid process to determine if it is correct before fixation.

Use Kirschner wires for temporary fixation.



Determine plate length and adapt the plate

Select a plate length appropriate for the fracture.

The plate can be bent slightly to adapt to the shape of the bone.

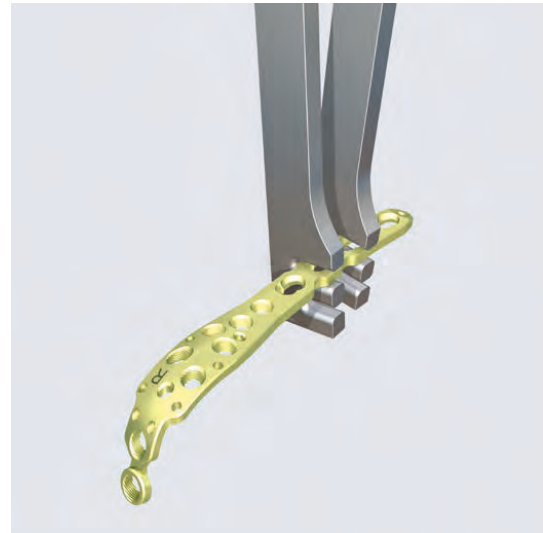
The plate can be bent at max. 4° at each notch in the plane of the shaft.

The tendon may have to be split in order to apply the plate from a posterior direction.

Evaluate whether or not the proximal tab should be used. If not, it can be cut off.

The tab can be bent for appropriate screw positioning, using the bending pin.

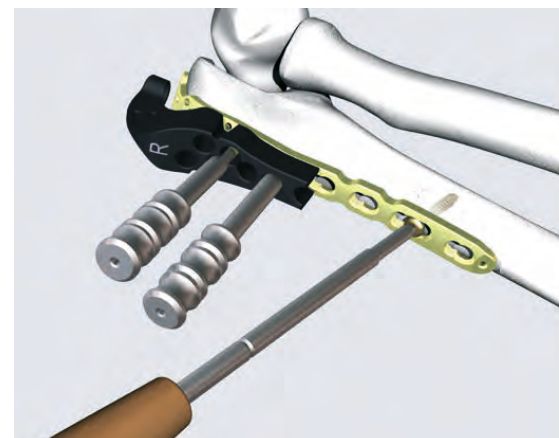
Precaution: If the tab is bent, take care that the screw does not collide with proximal screws



Attach the plate temporarily

After adapting the plate, mount the aiming device, drill and centering sleeves on the proximal part of the plate.

Position the plate on the reduced bone, and attach it temporarily with a cortex screw 3.5 mm.



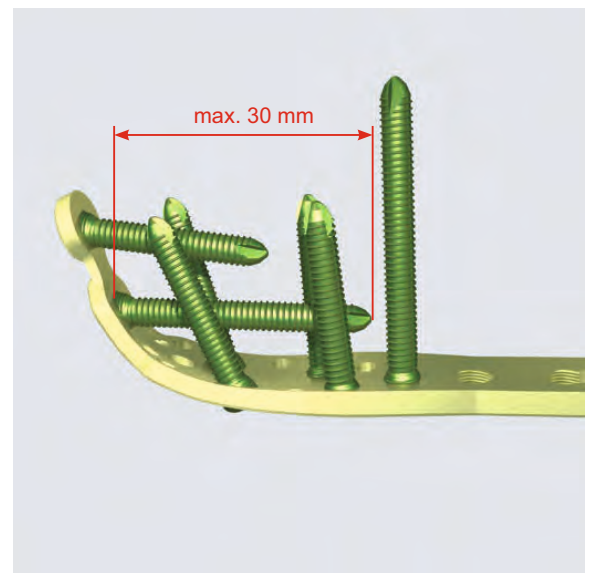
Determine screw length for proximal part

Determine the screw position and length in the proximal region with a Kirschner wire and the direct measuring device.

After positioning the plate, insert the Kirschner wire to the desired location using an image intensifier. Determine the length of the screw with the direct measuring device.

Alternative: Remove the Kirschner wire and centering sleeves, and determine the length of the screw hole with the depth gauge after drilling.

Precaution: If screws longer than 30 mm are used in the proximal part, they can collide with the shaft screws.

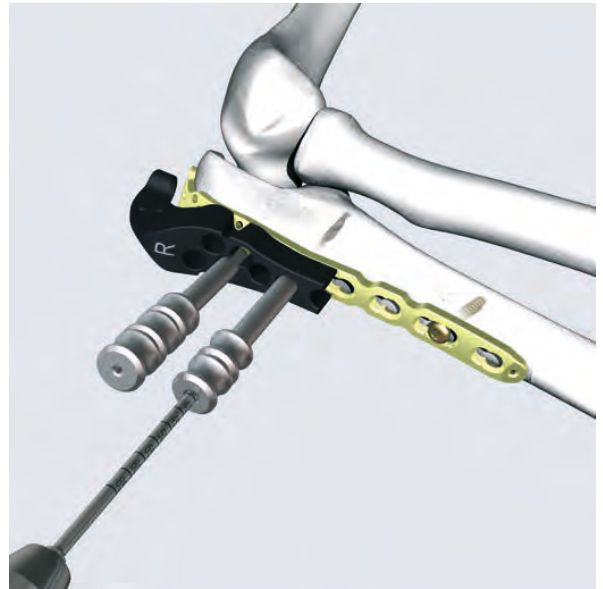


Drill screw hole and insert screw in proximal part

Remove the centering sleeve. Pre-drill the screw hole with the drill bit. Remove the drill sleeve and drill bit.

Insert the screw manually or using a power tool. Always use the torque limiter to restrict the maximum torque. A distinct click can be heard when the maximum torque is reached, indicating a secure fit. Remove the screwdriver and centering sleeve.

Repeat steps 6 and 7 until all required proximal screws are inserted.

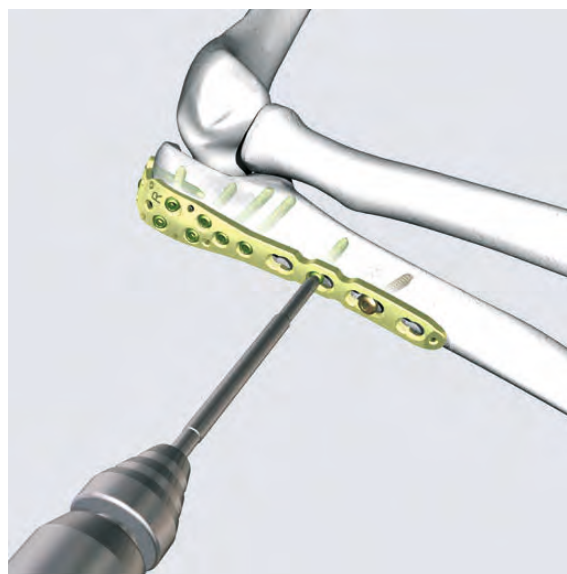
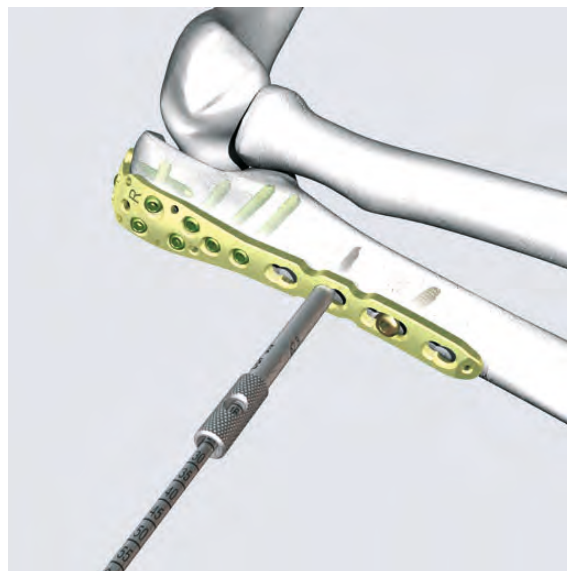


Insert the screws in the shaft area

Carefully screw the Threaded drill sleeve into the threaded part of the desired combination hole until the thread completely engages. Pre-drill the screw hole with the 2.8 mm drill bit. Determine the screw length with the depth gauge or scaled drill bit. Insert the screw as described in step 7.

Repeat this step until stable plate-bone fixation is achieved.

Note: If screws longer than 30 mm were used in the proximal part, they can collide with the shaft screws. See page 12.





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