2. Temporary Plate Fixation
The plate can be temporary fixed to the bone with ⌀ 1.6mm K-wire through the proximal cannulated fixation screw of the targeting device (Fig. 37).

3. Insert Tocar Sleeves
Insert the NCB tissue protection sleeve assembly ⌀ 1.6 to 10mm through a skin incision (Fig. 38).

4. Insert ⌀ 1.6mm Guide Wire
L = 190mm
Insert ⌀ 1.6mm guide wire with a length of 190mm and confirm the correct position with an image intensifier (Fig. 39).

Note: The distal center can be found with ⌀ 1.6mm K-wire by finding the anterior and posterior bone cortex and putting the K-wire in the middle of these two reference points (Fig. 40).
5. Drilling and Measuring the Screw Length

Determine the screw length from the measurement with the NCB depth gauge along the ⌀1.6mm guide wire (L = 190mm only) (Fig. 41).

Note: With this procedure the distance from the plate to the tip of the K-wire is measured.

For hard cortical bone it is possible to use the ⌀3.3mm cannulated drill bit (only for the lateral cortex, to make sure that the K-wire does not fall out). If the drill bit is used without a K-wire, the screw length can be determined from the calibration on the drill bit shaft (Fig. 42).

6. Distal Cannulated Screw Insertion

Use the 3.5mm cannulated hexagonal screw driver to insert the cannulated self-drilling screw over the 1.6mm guide wire (Fig. 43).

The NCB screws should be tightened moderately to the bone.

Note: For adequate stable fixation, bi cortical screw insertion is recommended.

Note: Care should be taken to avoid the branch of the axillary nerve in the diaphyseal area of the plate.
7. Add Locking Screw
Insert the Locking Screw Caps with the 3.5mm cannulated Hexagonal Screw Driver over the $\varnothing$ 1.6mm guide wire (Fig. 44).

Tighten the locking screw moderately.

**Note:** Make sure there is no blood in the screwdriver cannulation since this may push the K-wire forward.

---

8. Achieve Final Angular Stability
To achieve the final angular stability remove the guide wire and tighten the Locking Screw Caps with the Torque Screwdriver until the wrench declutches (clicking sound) (Fig. 45).

**Note:** The guide wire must be removed as the Torque-Limiting Screwdriver is not cannulated.
9. Proximal Screw Insertion
Insert Ø 1.6mm guide wire with a length of 190mm close to the subchondral bone and confirm the correct position under image intensification (Fig. 46).

10. Drilling and Measuring the Screw Length
Measure the length with the NCB Depth Gauge along the Ø 1.6mm guide wire (L = 190mm only) (Fig. 47).

**Note:** With this procedure the distance from the plate to the tip of the K-wire is measured. Determine the screw length by subtracting a sufficient distance to make sure that the screw is in an adequate distance from the joint.
11. Cannulated Screw Insertion
Use the 3.5mm Cannulated Hexagonal Screw Driver to insert the Cannulated Self-Drilling Cancellous Screw over the 1.6mm guide wire (Fig. 48).

Apply compression for reduction of the fracture. The NCB Screws should only be tightened moderately to the bone.

12. Add Locking Screw
Insert the Locking Screw Caps with the Cannulated Hexagonal Screwdriver hex 3.5mm over the ∅ 1.6mm guide wire.

Tighten the Locking Screw moderately.

13. Achieve Final Angular Stability
To achieve the final angular stability remove the guide wire and tighten the Locking Screw Caps with the Torque-Limiting Screwdriver until the wrench declutches (clicking sound) (Fig. 49).

Fig. 48 Insert the Cannulated Self-Drilling Cancellous Screw

Fig. 49 Tighten the Locking Screws with the Torque Screwdriver
14. Last Proximal Screw Setting (No. 3)
To insert the last proximal screw turn the targeting module and use the hole numbering 3 and the yellow frame on top. Fit the two yellow arrowhead markings (Fig. 50). Then follow the same screw-setting procedure as described in step 9-13 (Fig. 51).

Implant Removal
To remove the NCB-PH Humerus Plate, remove all Ø 8mm Locking Screw Caps from the plate first, then loosen all bone screws. This prevents simultaneous rotation of the plate when removing the last bone screw. Remove all bone screws completely from the bone.
### NCB-PH – Implants

#### NCB-PH Plate
*Protasul*-64 Metal Alloy

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*Stainless Steel*-316L

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#### NCB Locking Screw Cap
*Protasul*-64 Metal Alloy

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(red, green, blue)
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NCB Proximal Humerus Plating System Surgical Technique

**NCB Screw, self-tapping**
*Protasul-64 Metal Alloy*

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**NCB Cancellous Screw, self-tapping**
*thread 32mm*
*Protasul-64 Metal Alloy*

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**Cortical Screw, self-tapping**
*Protasul-100 Metal Alloy*

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### Implants for MIS Surgical Technique

**NCB Cannulated Screw**
- self-drill
- Protasul-64 Metal Alloy

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**NCB Cannulated Cancellous Screw**
- Self-Drill, thread 24mm Protasul-64 Metal Alloy

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# NCB Plating System – Sterilization Cases

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## NCB-Ph Standard Sterilization Case

- **for open technique (with content)**
  - Unit: 1
  - REF: 02.00024.700

- **for open technique, includes REF 02.00024.701 to 706 (no content)**
  - Unit: 1
  - REF: 02.00024.710

*Indicates the quantity in the standard sterilization case. **Optional case if ordered without MIS instruments.
NCB Plating System – Sterilization Case Modules for MIS Surgical Technique

NCB-PH Sterilization Case Module
MIS Instruments and Screw Rack
(with content)

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NCB Plating System – Instruments (Standard)

**NCB Depth Gauge,**
for **NCB** Screws **∅** 5.0, 4.5 and 4.0mm

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**NCB Locking Screw holder for**
Hexagonal Drivers **3.5mm**

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**NCB Torque-Limiting Screwdriver**

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<tr>
<td>245</td>
<td>3.5</td>
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**Reduction Forceps with serrated jaws,**
with ratchet

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<tr>
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**Double Drill Guides ** ∅ 2.5 / 3.5 / 4.0mm**

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<tbody>
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**NCB Drill Guide for**
NCB Screws **∅** 4.0 and 4.5mm

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**Bone-Holding Forceps Verbrugge,**
with thread lock

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**Screw Forceps self-holding**

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**NCB Drill Bit, with quick coupling**

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**Wire Cutter, with double articulation,**
for wire max. **∅** 1.7mm

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**Depth Gauge small,**
for screws **∅** 2.7, 3.5 and 4.0mm

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*Indicates the quantity in the standard sterilization case.*
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<th>Item Description</th>
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<tr>
<td>T-handle, with quick coupling</td>
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<td>100.90.210</td>
</tr>
<tr>
<td>Drill Bit with quick coupling</td>
<td>110 84 2.5 2</td>
<td>103.25.110</td>
</tr>
<tr>
<td>Tap for quick coupling</td>
<td>110 50 3.5 -</td>
<td>106.35.110</td>
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<tr>
<td>Countersink, for quick coupling</td>
<td></td>
<td>108.01.035</td>
</tr>
<tr>
<td>Hexagonal Screwdriver small</td>
<td>245 2.5 1</td>
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<tr>
<td>Kirschner Wire, with threaded tip</td>
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* Indicates the quantity in the standard sterilization case.
## NCB Plating System – Instruments for MIS Surgical Technique

### NCB-PH Targeting Device radiolucent, includes 02.00024.101 to 104

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### NCB-PH Drill Guide assembly, includes 02.00024.113 to 116

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### NCB-PH Measuring Device for cannulated screws

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### NCB-PH Connection Screw for Targeting Device

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### NCB Cannulated Drill Bit with quick coupling

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### NCB-PH Guide Wire with threaded tip

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### NCB-PH Hexagonal Screwdriver cannulated short hex

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### NCB-PH Tissue Protection Sleeve

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<td>3/3.3</td>
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<td>3.3/1.6</td>
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<tr>
<td>1.6</td>
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### NCB-PH Handle for Targeting Device

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### NCB-PH Fixation Screw for Targeting Device

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### NCB-PH Targeting Module for Targeting Device

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### NCB-PH Target Protection Sleeve

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<tr>
<td>3/3.0</td>
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<tr>
<td>1.6</td>
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**Indicates the quantity in the MIS sterilization case module.
Planning Template

X-ray template  REF 06.01238.000
Please refer to package insert for complete product information, including contraindications, warnings, precautions, and adverse effects.

Contact your Zimmer representative or visit us at www.zimmer.com