

Proximal Humerus Plate 3.5
Surgical Technique

LOCTEC®



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Disclaimer

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• Introduction

The LOQTEQ® Proximal Humerus Plate 3.5 is part of the LOQTEQ® plate system and unifies angular stability with anatomical plate design.

Materials

The LOQTEQ® implants and instruments are manufactured using high-quality materials, which have been proven to be successful in medical technology for decades. The anatomical plates and bone screws are made of titanium alloy.

All materials employed comply with national and international standards. They are characterized by good biocompatibility, a high degree of safety against allergic reactions and good mechanical properties. LOQTEQ® implants show an excellent highly polished surface.

Description

The LOQTEQ® proximal humerus system is based on clinical experience that aap has gained from its existing humerus system.

- Locking screws are positioned in a diverging manner in order to ensure a high degree of stability in normal and osteoporotic bones as well as for multi-fragment fractures
- The anatomical plate design minimizes the need for intraoperative plate contouring
- Gliding-locking holes in the shaft area allow compression and angular stability with LOQTEQ® technology
- Two angled calcar support screws running in a cranial direction may help to increase the stability of the humeral head
- Suture holes enable additional fixation of the tubercle fragments
- Holes for K-wires and an oblong hole facilitate the primary fixation of the plate
- Minor Contact undercuts may help to preserve the blood supply to the periosteum
- The flattened end of the plate is designed for tissue-conserving, submuscular insertion
- Fitted, radiolucent aiming devices are designed for the safe placement of drill guides at a preset angle
- 4-12 holes in the plate shaft



Indications/Contraindications

Indications

The distal proximal humerus plate 3.5 mm is indicated for stabilizing:

- Displaced and unstable fractures with two, three or four fragments
- Reconstructable fractures of the humeral head
- Combined diaphyseal fractures
- Non-unions
- Osteotomies of the proximal humerus

Contraindications

- Infection or inflammation (localized or systemic)
- Allergies against the implant material
- High anesthesia risk patients
- Severe soft tissue swelling impacting normal wound healing
- Insufficient soft tissue coverage
- Fractures in children and adolescents with epiphyseal plates not yet ossified

Processing (Sterilization & Cleaning)

The implants are supplied sterile and non-sterile.

Implants and instruments that are supplied in non-sterile condition must be sterilized before use.

For this purpose, please refer to the Instructions for Use that are enclosed with the plates, instruments, and trays.

Do not use (sterile) implants from damaged or open inner packaging.

• Surgical Technique

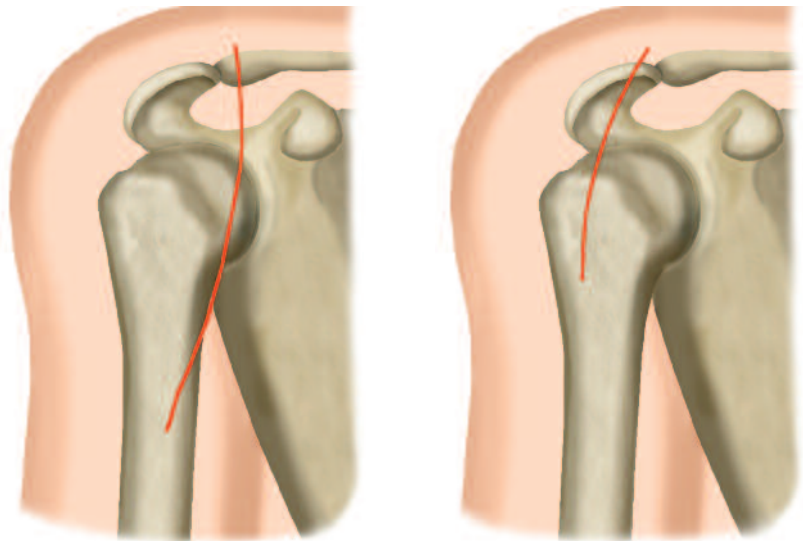
Positioning

- The patient is positioned in the „beach chair“ position. This facilitates AP and axial fluoroscopic imaging. Prepare the patients arm so that it can be moved intraoperatively.

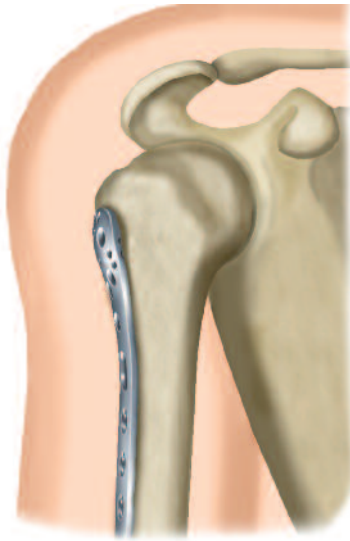


Access

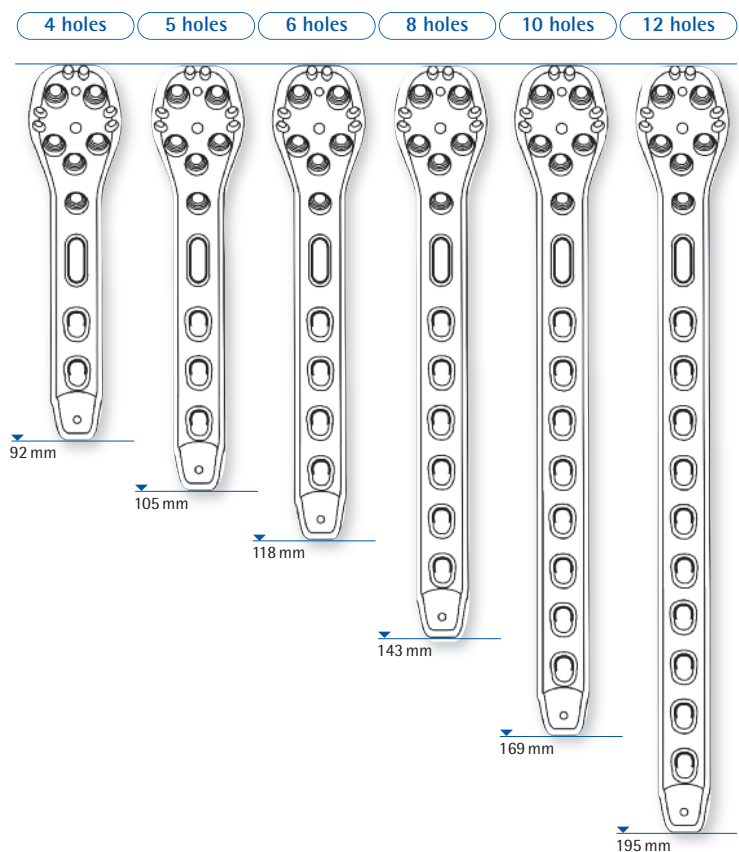
- The deltoidopectoral or lateral transdeltoid approach is recommended.



Preoperative Planning



- Evaluation of the fracture situation on the basis of an X-ray/CT scan and selection of the appropriate plate length.



• Surgical Technique

Repositioning and primary fixation

INSTRUMENTS	ART.-NO.
K-wire with trocar point, ø1.6. L 150	NK 0016-15

- Reposition the head fragments and check the repositioning using fluoroscopy. Fixate the repositioned fragments temporarily with K-wires or suture material. Ensure that K-wires do not interfere with subsequent plate placement.

◆ NOTE:

Reposition as gently as possible to prevent additional iatrogenic injury to the blood supply. Repositioning of the head fragments must be completed before fixing the plate in place.

Insertion of the plate



INSTRUMENTS	ART.-NO.
Aiming device LOQTEQ® Proximal Humerus Plate 3.5	IU 8176-01
Fixing screw aiming device LOQTEQ® PH 3.5	IU 8176-02
Screwdriver, hexagonal, ø2.5, for quick coupling	IU 7825-00
Large handle, cannulated, quick coupling	IU 7706-00

- Mount the aiming device on the plate using the fixing screw. Depending on the access, carefully insert the plate, and position it at the lateral humeral head and shaft, or place it directly at the bone.

◆ CAUTION:

The plate should be placed approximately 10 mm distal to the upper edge of the greater tuberosity.

◆ NOTE:

The fixing screw is held in the aiming device by its thread. The fixing screw must be removed from the aiming device for cleaning.



INSTRUMENTS	ART.-NO.
K-wire with trocar point, $\varnothing 1.6$, L 150	NK 0016-15
Drill guide for round hole LOQTEQ® 3.5, I- \varnothing 2.4, green	IU 8166-30
Reduction sleeve for K-wire $\varnothing 1.6$, green	IU 8166-15
Fixing screw aiming device LOQTEQ® PH 3.5	IU 8176-02
Screwdriver, hexagonal, $\varnothing 2.5$, for quick coupling	IU 7825-00
Large handle, cannulated, quick coupling	IU 7706-00

- Fixate the plate temporarily with K-wires either through the appropriate holes in the plate or alternatively through a drill guide (green) with a reduction sleeve for K-wire (green).



INSTRUMENTS	ART.-NO.
Double drill guide, $\varnothing 2.5$ / 3.5, with spring aided centering	IU 8116-50
Twist Drill $\varnothing 2.5$, L 110, coil 50, quick coupling	IU 7425-00
Depth gauge for locking screws, small	IS 7904-00
Screw forceps, self-holding	IU 8004-00
Screwdriver, hexagonal, $\varnothing 2.5$, for quick coupling	IU 7825-00
Large handle, cannulated, quick coupling	IU 7706-00

- Alternatively, a standard cortical screw 3.5 mm can be inserted into the oblong hole. For this purpose, use a double drill guide $\varnothing 2.5/3.5$ and a twist drill $\varnothing 2.5$ and pilot drill to the required depth. Then determine the screw length using the depth gauge and insert a standard cortical screw 3.5 mm of the appropriate length. This standard cortical screw 3.5 mm can simultaneously pull the plate towards the shaft.

- Check plate position using fluoroscopy and adjust if required.

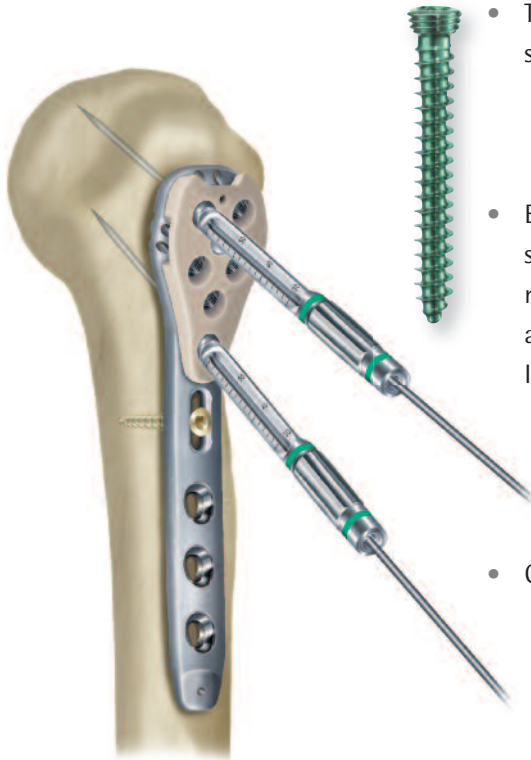
◆ CAUTION:

To avoid subacromial impingement, do not place the plate too far cranially.

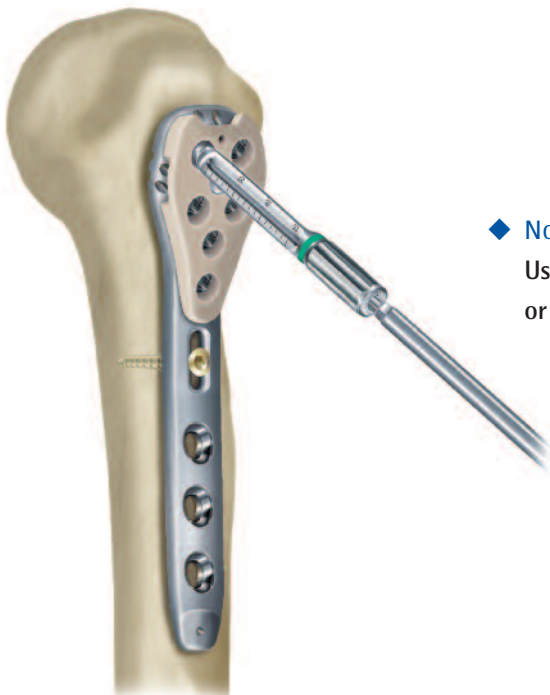
• Surgical Technique

Securing of the proximal plate holes

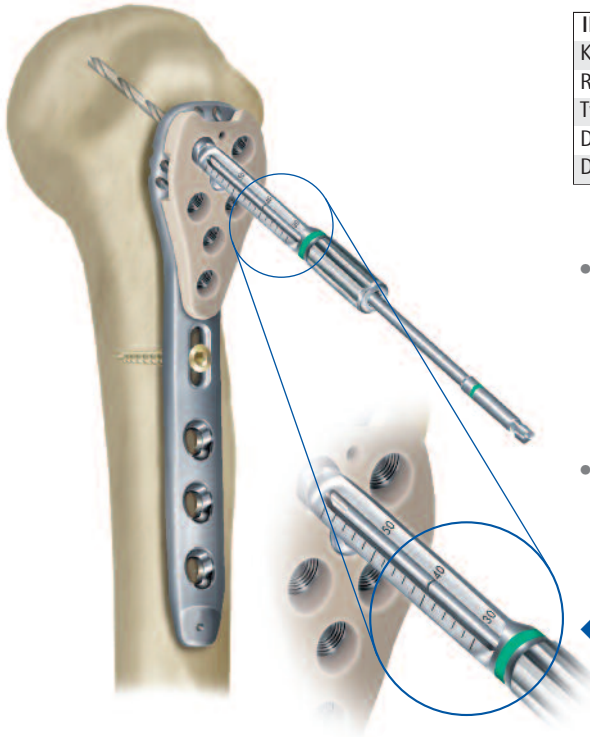
INSTRUMENTS	ART.-NO.
K-wire with trocar point, ø1.6. L 150	NK 0016-15
Drill guide for round hole LOQTEQ® 3.5, I-ø 2.4, green	IU 8166-30
Reduction sleeve for K-wire ø1.6, green	IU 8166-15
Screwdriver duo, T15, quick coupling	IU 7825-56



- The six proximal plate holes are secured with LOQTEQ® cancellous screws 3.8 mm (green).
- Before inserting the screws, check the subsequent position of the screws using K-wires. For this purpose, insert one drill guide for round hole (green) each in both the proximal and the distal head area in a plate hole. Insert the reduction sleeve for K-wire (green). Insert the K-wire through the reduction sleeve up to the far cortex.
- Check the position of the K-wires using fluoroscopy.



- ◆ **NOTE:**
Using the screwdriver duo, T15 can facilitate screwing in, or later unscrewing, the drill guide (green).

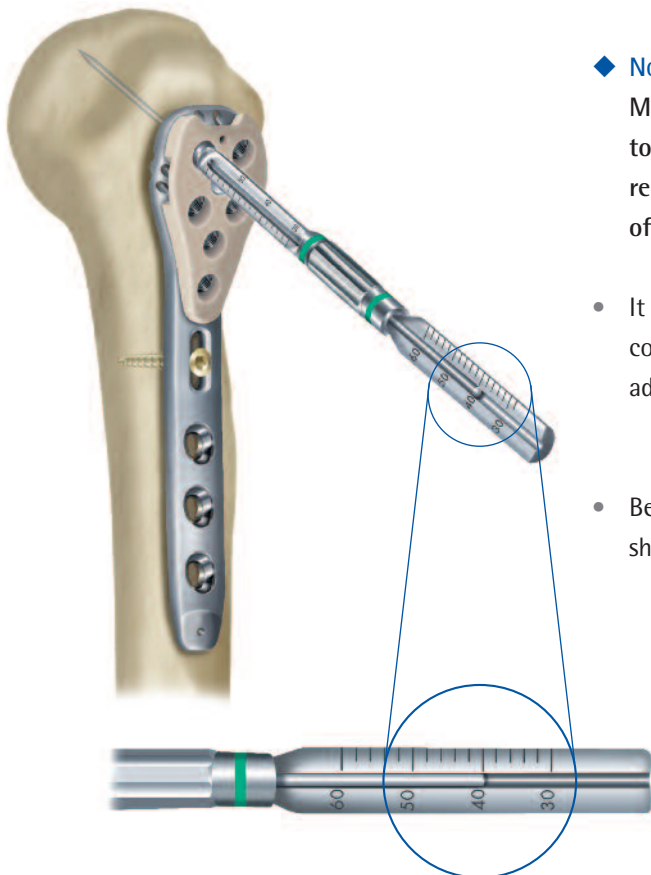


INSTRUMENTS	ART.-NO.
K-wire with trocar point, $\varnothing 1.6$, L 150	NK 0016-15
Reduction sleeve for K-wire $\varnothing 1.6$, green	IU 8166-15
Twist Drill $\varnothing 2.3$, L 180, coil 50, quick coupling	IU 7423-18
Drill guide for round hole LOQTEQ® 3.5, I- \varnothing 2.4, green	IU 8166-30
Direct measuring device LOQTEQ®, green, for K-wire L 150	IU 7915-10

- To insert a LOQTEQ® cancellous screw 3.8 mm (green), remove the K-wire and the reduction sleeve for K-wire (green) and pilot drill with a twist drill $\varnothing 2.3$ (green) to the required depth, up to the subchondral zone.
- The penetration depth of the drill in the bone can be read off from the drill guide (green) to determine the required screw length.

◆ **CAUTION:**

When determining the screw length, the probability of bone resorption and sintering of screws at the fracture site must be taken into account. Ensure that the screw tip is an adequate distance away from the subchondral zone.

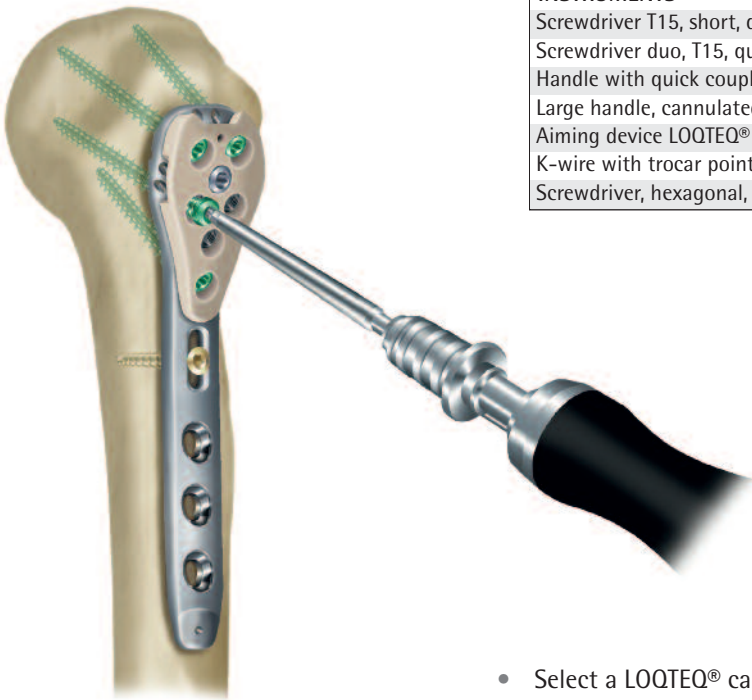


◆ **NOTE:**

Measuring of the screw length via the K-wire is possible prior to drilling. Slide the direct measuring device (green) on the reduction sleeve for K-wire (green), and determine the length of the required screw.

- It is recommended to check the position of the K-wire by fluoroscopy before measuring, so that the determined screw length can be adjusted, if necessary.
- Before measuring the screw length, the total length of the K-wire should be checked using the scale on the screw rack.

• Surgical Technique



INSTRUMENTS	ART.-NO.
Screwdriver T15, short, quick coupling	IU 7810-16
Screwdriver duo, T15, quick coupling	IU 7825-56
Handle with quick coupling, with torque limiter, 2.0 Nm	IU 7707-20
Large handle, cannulated, quick coupling	IU 7706-00
Aiming device LOQTEQ® Proximal Humerus Plate 3.5	IU 8176-01
K-wire with trocar point, ø1.6, L 150	NK 0016-15
Screwdriver, hexagonal, ø2.5, for quick coupling	IU 7825-00



- Select a LOQTEQ® cancellous screw 3.8 mm (green) of the appropriate length and loosely insert with screwdriver T15. Finally, tighten the screw with the torque limiter 2.0 Nm. With an audible and sensible click of the torque limiter the optimal locking is achieved. In addition, it is recommended to ensure correct fit of the screws, i.e. visually or using fluoroscopy.
- Secure all proximal plate holes in this way. Then remove the aiming device and any remaining K-wires.

◆ NOTE:

As soon as the head of the screw reaches the plate hole it is compulsory to switch to the torque limiter.

Fixating the plate shaft

The unique combination of a gliding and threaded hole in the plate shaft provides the user with different possibilities for fixation:

- **Interfragmentary compression using a LOQTEQ® locking screw 3.5 mm (red)**
- **Compression-free locking using a LOQTEQ® locking screw 3.5 mm (red)**
- **Interfragmentary compression using a standard cortical screw 3.5 mm**
- **Compression-free fixation using a standard cortical screw 3.5 mm**



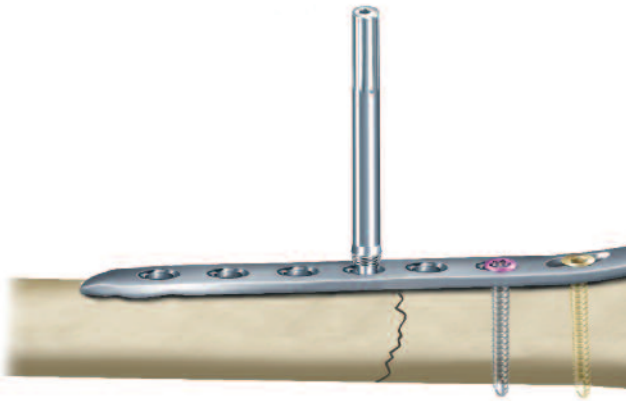
• Surgical Technique

Interfragmentary compression using a LOQTEQ® locking screw (red)

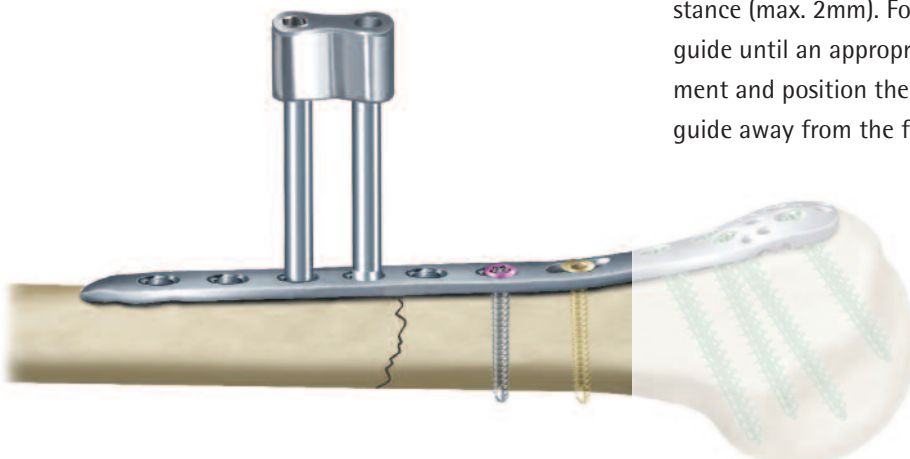
INSTRUMENTS	ART.-NO.
Basic Insert for load drill guide LOQTEQ® 3.5	IU 8166-05
Load Drill guide LOQTEQ® 3.5, compression 1 mm	IU 8166-01
Load Drill guide LOQTEQ® 3.5, compression 2 mm	IU 8166-02
Load drill guide LOQTEQ® 3.5, adjustable up to 2 mm	IU 8166-03



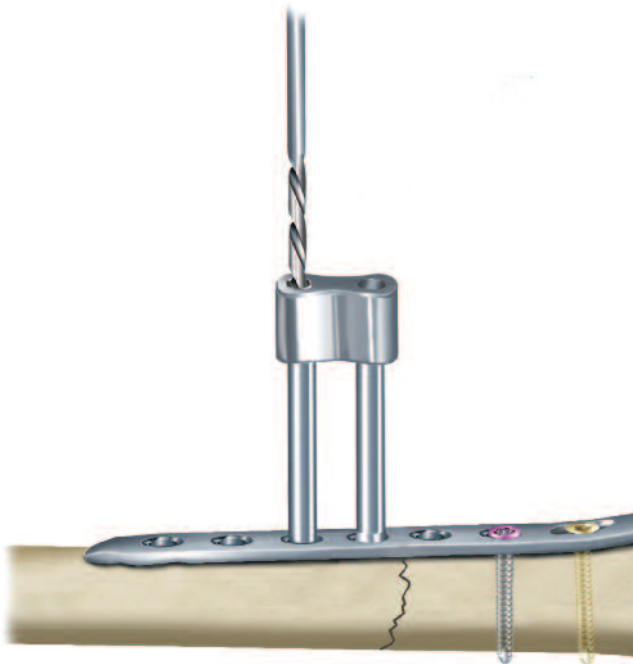
- If required, fracture compression can be achieved by inserting a non-locking cortical screw 3.5 mm (gold) or LOQTEQ® locking compression screw 3.5 mm (red) into the compression position.



- Screw the basic insert for load drill guide (IU 8166-05) into a shaft hole near the fracture line or, if necessary, above the fracture line. Choose a load drill guide in accordance with the compression distance (1mm or 2mm) and position on the basic insert away from the fracture gap.



- Alternatively, the adjustable load drill guide (IU 8166-03) can be used. The fracture gap serves as orientation in setting the compression distance (max. 2mm). For this purpose, turn the wheel of the load drill guide until an appropriate gap forms in the upper part of the instrument and position the drill guide on the basic insert for load drill guide away from the fracture gap.



INSTRUMENTS	ART.-NO.
Twist Drill $\varnothing 2.7$, L 150, coil 50, quick coupling	IU 7427-15
Depth gauge for locking screws, small	IS 7904-00
Screwdriver duo, T15, quick coupling	IU 7825-56
Handle with quick coupling, with torque limiter, 2.0 Nm	IU 7707-20
Screwdriver, hexagonal, $\varnothing 2.5$, for quick coupling	IU 7825-00
Large handle, cannulated, quick coupling	IU 7706-00

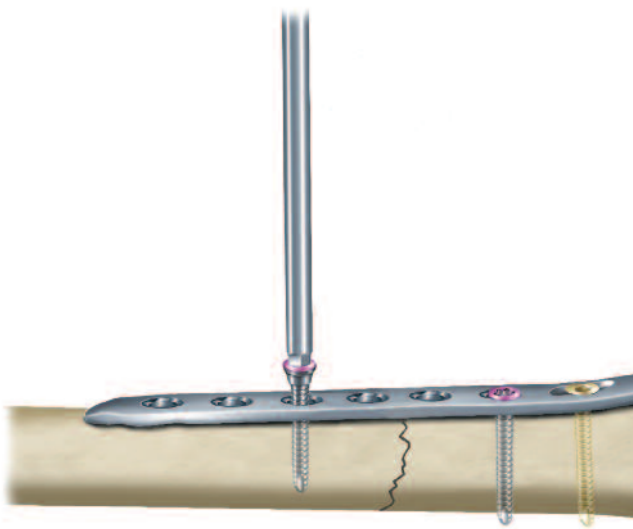
- Drill to the desired depth using a twist drill $\varnothing 2.7$ (blue/red) and determine the depth with the depth gauge.
- Loosely insert a LOQTEQ® locking compression screw 3.5mm (red) of the appropriate length with screwdriver T15 and finally tighten the screw with the torque limiter 2.0 Nm. With an audible and sensible click of the torque limiter the optimal locking is achieved. In addition, it is recommended to ensure correct fit of the screws, i.e. visually or using fluoroscopy.

◆ **CAUTION:**

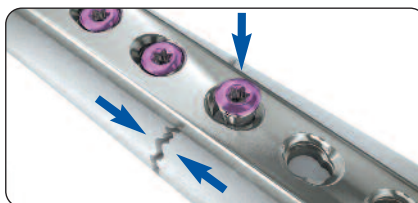
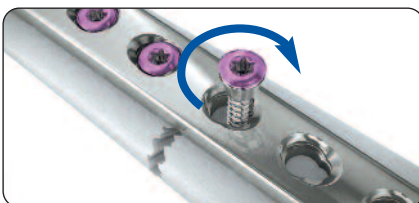
Care should be taken to select the proper compression distance (1 or 2mm). If the fracture gap is too small and the bone very hard, excessive compression may prevent full locking of the angle stable screw.

◆ **NOTE:**

As soon as the head of the screw reaches the plate hole it is compulsory to switch to the torque limiter. In cases of very hard bone in the diaphysis, it is necessary to make sure that the screw head is flush to the plate. With such conditions, it is permissible to finish the screw without the torque limiter.



- Alternatively, a non-locking cortical screw (gold) can be placed as a compression screw. For this purpose, use the double drill guide in offset position (do not apply pressure on the drill guide) and drill using a twist drill $\varnothing 2.7$.
- When all required screws have been inserted, perform final check using fluoroscopy, AP and lateral, and close the wound.



• Surgical Technique

Compression-free locking using a LOQTEQ® locking screw (red)

INSTRUMENTS	ART.-NO.
Drill guide for gliding hole LOQTEQ® 3.5, I-ø 2.8, red	IU 8166-10
Twist Drill ø2.7, L 150, coil 50, quick coupling	IU 7427-15
Depth gauge for locking screws, small	IS 7904-00
Screwdriver duo, T15, quick coupling	IU 7825-56
Handle with quick coupling, with torque limiter, 2.0 Nm	IU 7707-20
Large handle, cannulated, quick coupling	IU 7706-00



- Screw the drill guide for gliding hole (red) into the desired plate hole and pilot drill to the desired depth using the twist drill ø2.7 (blue-red). Remove the drill guide for gliding hole (red) and determine the required screw length using the depth gauge. Loosely insert a LOQTEQ® cortical screw 3.5 mm (red) of the appropriate length using screwdriver T15 and tighten the screw with the torque limiter 2.0 Nm. With an audible and sensible click of the torque limiter the optimal locking is achieved.

In addition, it is recommended to ensure correct fit of the screws, i.e. visually or using fluoroscopy.

◆ NOTE:

As soon as the head of the screw reaches the plate hole, it is compulsory to switch to the torque limiter. In cases of very hard bone in the diaphysis it is necessary to make sure that the screw head is flush to the plate. With such conditions, it is permissible to finish the screw without the torque limiter.



- For an optimal plate-to-screw connection, it is recommended to use the drill guide for gliding hole LOQTEQ® for the insertion of locking screws. If the locking screw is inserted obliquely, the angular stability is reduced.

Interfragmentary compression using a standard cortical screw

INSTRUMENTS	ART.-NO.
Double drill guide, $\varnothing 2.5 / 3.5$, with spring aided centering	IU 8116-50
Twist Drill $\varnothing 2.5$, L 180, coil 50, quick coupling	IU 7425-18
Depth gauge for locking screws, small	IS 7904-00
Screwdriver, hexagonal, $\varnothing 2.5$, for quick coupling	IU 7825-00
Large handle, cannulated, quick coupling	IU 7706-00



- Place the double drill guide $\varnothing 2.5/3.5$ in compression position (apply the adjustable part without pressure) in the gliding part of the hole. Pilot drill using a twist drill $\varnothing 2.5$, determine the length of the screw using the depth gauge, and insert a standard cortical screw 3.5 mm of the appropriate length using a screwdriver, hexagonal 2.5.



Compression-free fixation using a standard cortical screw

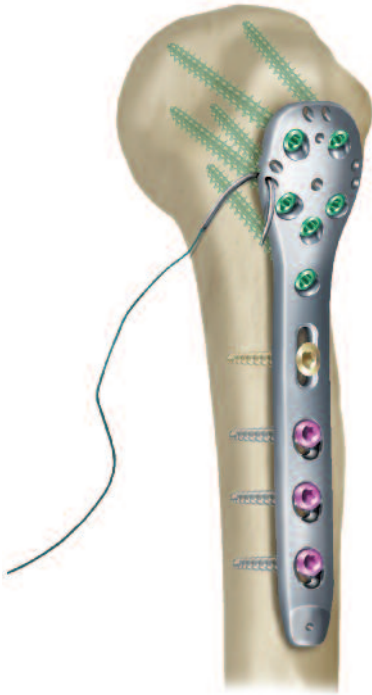


- For inserting a standard cortical screw 3.5 mm, use the double drill guide $\varnothing 2.5/3.5$ in a neutral position, i.e., center in the plate hole by applying pressure on the adjustable part. Pilot drill using a twist drill $\varnothing 2.5$, determine the length of the screw using the depth gauge, and insert a standard cortical screw 3.5 mm of the appropriate length using a screwdriver, hexagonal 2.5.



• Surgical Technique

Reattachment of the tuberosities



- If required, sutures can be sewn through the suture holes available at the plate periphery to facilitate reattachment of the tuberosities. The oblique suture holes are specially aligned to the direction of tension.
- Before closing the wound, make a final check on the repositioning result, the plate position and the screw lengths using fluoroscopy in all planes. Ensure that the screws do not penetrate the articular surface.

Explantation



INSTRUMENTS	ART.-NO.
Screwdriver, hex 2.5, blue handle	IU 7841-00
*Screwdriver, T15, round handle	IU 7811-15

◆ NOTE:

Use the appropriate explantation screwdriver T15 (IU 7811-15) for a safe screw removal. The explantation screwdrivers are not self-retaining and allow for higher torque transmission during screw removal. They should be ordered separately.

The screwdrivers T15 in the set (IU 7825-56) are self-retaining and should not be used for screw explantation.

- Place an incision on the old scar. Manually undo all screws and sequentially remove them.

◆ NOTE:

After manually unlocking all screws, the removal can be performed using a power tool.

LOQTEQ® Proximal Humerus Plate, Complete Set

IC 6933-00

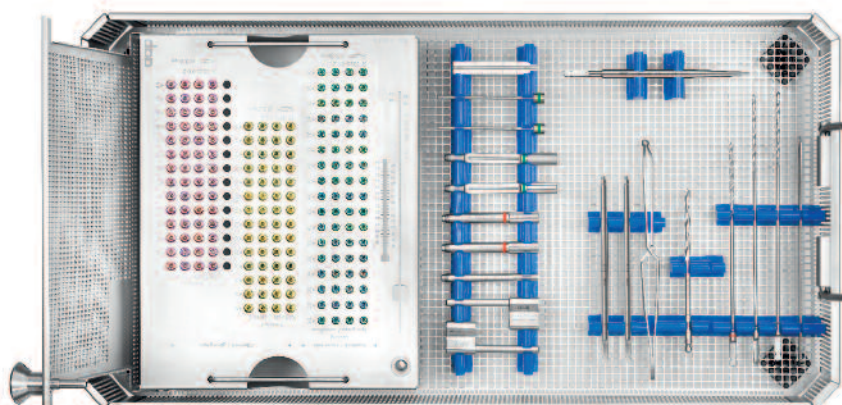
- | | | |
|----------|-----------------------------|------------|
| A | Set of Instruments | IC 6933-10 |
| B | Set of Plates | IC 6933-20 |
| C | Screw Rack, complete | IC 6933-30 |

• Trays

LOQTEQ® Proximal Humerus Plate, Set of Instruments

IC 6933-10

A



ARTICLE

ART.-NO.

Tray for implants LOQTEQ® PH 3.5, empty
Lid for trays, large

IC 6933-11
IC 2008-00

Twist Drill ø2.3, L 180, coil 50, quick coupling

IU 7423-18

Twist Drill ø2.5, L 180, coil 50, quick coupling

IU 7425-18

Twist Drill ø2.7, L 150, coil 50, quick coupling

IU 7427-15

Twist Drill ø3.5, L 110, coil 50, quick coupling

IU 7435-00

Screwdriver, hexagonal, ø2.5, for quick coupling

IU 7825-00

Screwdriver duo, T15, quick coupling

IU 7825-56

Direct measuring device LOQTEQ®, green, for K-wire L 150

IU 7915-10

Screw forceps, self-holding

IU 8004-00

Load Drill guide LOQTEQ® 3.5, compression 1 mm

IU 8166-01

Load Drill guide LOQTEQ® 3.5, compression 2 mm

IU 8166-02

Load Drill guide LOQTEQ® 3.5, adjustable up to 2mm

IU 8166-03

Basic Insert for load drill guide LOQTEQ® 3.5

IU 8166-05

Drill guide for gliding hole LOQTEQ® 3.5, I-ø 2.8, red

IU 8166-10

Reduction sleeve for K-wire ø1.6, green

IU 8166-15

Drill guide for round hole LOQTEQ® 3.5, I-ø 2.4, green

IU 8166-30

Fixing screw aiming device LOQTEQ® PH 3.5

IU 8176-02

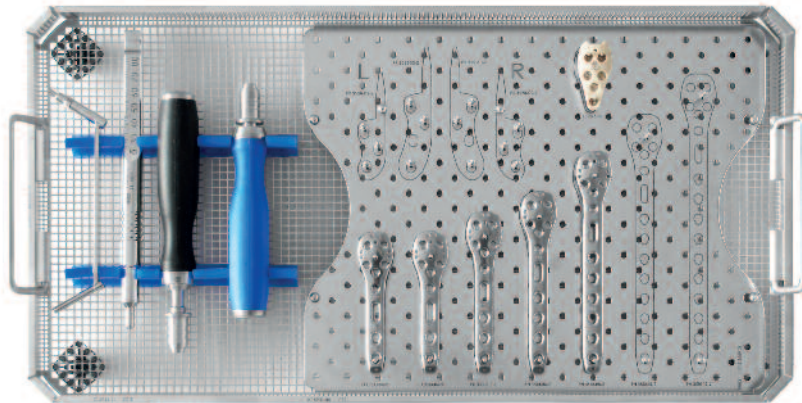
K-wire with trocar point, ø1.6. L 150

NK 0016-15

OPTIONAL

Twist Drill ø2.5, L 110, coil 50, quick coupling

IU 7425-00

LOQTEQ® Proximal Humerus Plate, Set of Plates
IC 6933-20

B
ARTICLE
ART.-NO.

Tray for implants LOQTEQ® PH 3.5, empty
Lid for trays, large

IC 6933-21
IC 2008-00

Depth gauge for locking screws, small

IS 7904-00

Large handle, cannulated, quick coupling

IU 7706-00

Handle with quick coupling, with torque limiter, 2.0 Nm

IU 7707-20

Double drill guide, ø2.5/3.5, with spring aided centering

IU 8116-50

Aiming device LOQTEQ® Proximal Humerus Plate 3.5

IU 8176-01

Fixing screw aiming device LOQTEQ® PH 3.5

IU 8176-02

LOQTEQ® Proximal Humerus Plate 3.5, 4 holes, L 92

PH 3510-04-2

LOQTEQ® Proximal Humerus Plate 3.5, 5 holes, L 105

PH 3510-05-2

LOQTEQ® Proximal Humerus Plate 3.5, 6 holes, L 118

PH 3510-06-2

LOQTEQ® Proximal Humerus Plate 3.5, 8 holes, L 143

PH 3510-08-2

OPTIONAL

LOQTEQ® Proximal Humerus Plate 3.5, 10 holes, L 169

PH 3510-10-2

LOQTEQ® Proximal Humerus Plate 3.5, 12 holes, L 195

PH 3510-12-2

AC-Plate, 3 holes, right

PX 3520-01-2

AC-Plate, 3 holes, left

PX 3520-02-2

AC-Plate, 4 holes, right

PX 3521-01-2

AC-Plate, 4 holes, left

PX 3521-02-2



• Trays

LOQTEQ® Proximal Humerus Plate, Screw Rack, complete

IC 6933-30

C



ARTICLE

Screw rack LOQTEQ® PH 3.5, empty

ART.-NO.

IC 6933-31

Screws for gliding locking hole



ARTICLE

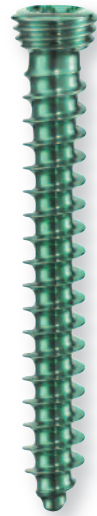
LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 18
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 20
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 22
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 24
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 26
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 28
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 30
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 32
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 34
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 36
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 38
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 40
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 42
 LOQTEQ® Cortical Screw 3.5, T15, self-tapping, L 44

ART.-NO.

SK 3525-18-2
 SK 3525-20-2
 SK 3525-22-2
 SK 3525-24-2
 SK 3525-26-2
 SK 3525-28-2
 SK 3525-30-2
 SK 3525-32-2
 SK 3525-34-2
 SK 3525-36-2
 SK 3525-38-2
 SK 3525-40-2
 SK 3525-42-2
 SK 3525-44-2

Screws for round locking hole

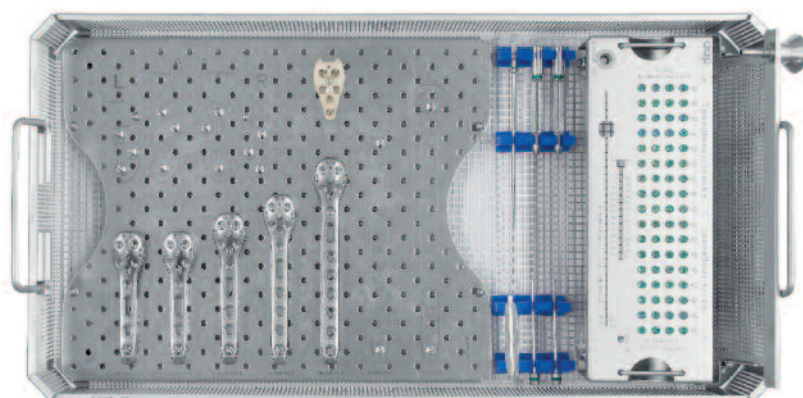
ARTICLE	ART.-NO.
LOQTEQ® Cancellous Screw 3.8, T15, L 28	SP 3825-28-2
LOQTEQ® Cancellous Screw 3.8, T15, L 30	SP 3825-30-2
LOQTEQ® Cancellous Screw 3.8, T15, L 32	SP 3825-32-2
LOQTEQ® Cancellous Screw 3.8, T15, L 34	SP 3825-34-2
LOQTEQ® Cancellous Screw 3.8, T15, L 36	SP 3825-36-2
LOQTEQ® Cancellous Screw 3.8, T15, L 38	SP 3825-38-2
LOQTEQ® Cancellous Screw 3.8, T15, L 40	SP 3825-40-2
LOQTEQ® Cancellous Screw 3.8, T15, L 42	SP 3825-42-2
LOQTEQ® Cancellous Screw 3.8, T15, L 44	SP 3825-44-2
LOQTEQ® Cancellous Screw 3.8, T15, L 46	SP 3825-46-2
LOQTEQ® Cancellous Screw 3.8, T15, L 48	SP 3825-48-2
LOQTEQ® Cancellous Screw 3.8, T15, L 50	SP 3825-50-2
LOQTEQ® Cancellous Screw 3.8, T15, L 52	SP 3825-52-2
LOQTEQ® Cancellous Screw 3.8, T15, L 54	SP 3825-54-2
LOQTEQ® Cancellous Screw 3.8, T15, L 56	SP 3825-56-2
LOQTEQ® Cancellous Screw 3.8, T15, L 58	SP 3825-58-2
LOQTEQ® Cancellous Screw 3.8, T15, L 60	SP 3825-60-2



Standard screws

ARTICLE	ART.-NO.
Cortical Screw 3.5, self-tapping, L 12	SK 3510-12-2
Cortical Screw 3.5, self-tapping, L 14	SK 3510-14-2
Cortical Screw 3.5, self-tapping, L 16	SK 3510-16-2
Cortical Screw 3.5, self-tapping, L 18	SK 3510-18-2
Cortical Screw 3.5, self-tapping, L 20	SK 3510-20-2
Cortical Screw 3.5, self-tapping, L 22	SK 3510-22-2
Cortical Screw 3.5, self-tapping, L 24	SK 3510-24-2
Cortical Screw 3.5, self-tapping, L 26	SK 3510-26-2
Cortical Screw 3.5, self-tapping, L 28	SK 3510-28-2
Cortical Screw 3.5, self-tapping, L 30	SK 3510-30-2
Cortical Screw 3.5, self-tapping, L 32	SK 3510-32-2
Cortical Screw 3.5, self-tapping, L 34	SK 3510-34-2
Cortical Screw 3.5, self-tapping, L 36	SK 3510-36-2
Cortical Screw 3.5, self-tapping, L 38	SK 3510-38-2



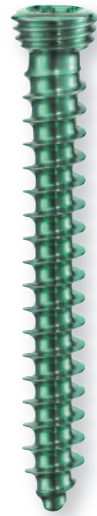


ARTICLE	ART.-NO.
Tray for implants LOQTEQ® PH 3.5, empty	IC 6933-41
Screw rack LOQTEQ® PH 3.5, empty	IC 6933-42
Lid for trays, large	IC 2008-00
Twist drill ø2.3, L 180, coil 50, quick coupling	IU 7423-18
Direct measuring device LOQTEQ® PH, green, for K-wire L 150	IU 7915-10
Reduction sleeve for K-wire ø1.6, green	IU 8166-15
Drill guide for round hole LOQTEQ® 3.5, I-ø 2.4, green	IU 8166-30
Aiming device LOQTEQ® Proximal Humerus Plate 3.5	IU 8176-01
Fixing screw aiming device LOQTEQ® SFI T15	IU 8176-03
LOQTEQ® Prox. Humerus Plate 3.5, 4 holes, L 92	PH 3510-04-2
LOQTEQ® Prox. Humerus Plate 3.5, 5 holes, L 105	PH 3510-05-2
LOQTEQ® Prox. Humerus Plate 3.5, 6 holes, L 118	PH 3510-06-2
LOQTEQ® Prox. Humerus Plate 3.5, 8 holes, L 143	PH 3510-08-2
OPTIONAL	
LOQTEQ® Proximal Humerus Plate 3.5, 10 holes, L 169	PH 3510-10-2
LOQTEQ® Proximal Humerus Plate 3.5, 12 holes, L 195	PH 3510-12-2
AC-Plate, 3 holes, right	PX 3520-01-2
AC-Plate, 3 holes, left	PX 3520-02-2
AC-Plate, 4 holes, right	PX 3521-01-2
AC-Plate, 4 holes, left	PX 3521-02-2

* Please complete with Small Fragment Set Set IC 6931-05/IC 6931-00 or IC 6931-10 and IC 6931-35/IC 6931-30.

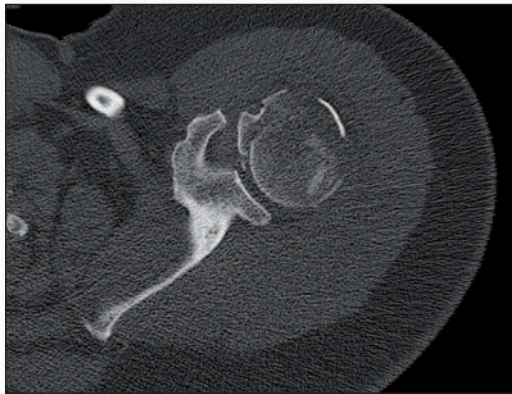
Screw Rack, LOQTEQ® Proximal Humerus Plate, Basic Set

ARTICLE	ART.-NO.
LOQTEQ® Cancellous Screw 3.8, T15, L 28	SP 3825-28-2
LOQTEQ® Cancellous Screw 3.8, T15, L 30	SP 3825-30-2
LOQTEQ® Cancellous Screw 3.8, T15, L 32	SP 3825-32-2
LOQTEQ® Cancellous Screw 3.8, T15, L 34	SP 3825-34-2
LOQTEQ® Cancellous Screw 3.8, T15, L 36	SP 3825-36-2
LOQTEQ® Cancellous Screw 3.8, T15, L 38	SP 3825-38-2
LOQTEQ® Cancellous Screw 3.8, T15, L 40	SP 3825-40-2
LOQTEQ® Cancellous Screw 3.8, T15, L 42	SP 3825-42-2
LOQTEQ® Cancellous Screw 3.8, T15, L 44	SP 3825-44-2
LOQTEQ® Cancellous Screw 3.8, T15, L 46	SP 3825-46-2
LOQTEQ® Cancellous Screw 3.8, T15, L 48	SP 3825-48-2
LOQTEQ® Cancellous Screw 3.8, T15, L 50	SP 3825-50-2
LOQTEQ® Cancellous Screw 3.8, T15, L 52	SP 3825-52-2
LOQTEQ® Cancellous Screw 3.8, T15, L 54	SP 3825-54-2
LOQTEQ® Cancellous Screw 3.8, T15, L 56	SP 3825-56-2
LOQTEQ® Cancellous Screw 3.8, T15, L 58	SP 3825-58-2
LOQTEQ® Cancellous Screw 3.8, T15, L 60	SP 3825-60-2



• Case Study

Fracture of the Proximal Humerus (AO 11 C2)



Preoperative



Postoperative

Clinical case and CT images with the kind permission of
Univ.-Prof. Prof. h.c. Dr. Dr. Dr. h.c. R. Schnettler,
University Hospital Giessen and Marburg, Germany

- Notes

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Layout, typesetting:
deSIGN graphic - Wolfram Passlack

Illustrations:
Karen Hilberg

aap Implantate AG
Lorenzweg 5 • 12099 Berlin
Germany
Phone +49 30 75019-0
Fax +49 30 75019-111
customer.service@aap.de
www.aap.de

LOCTEC®



aap Implantate AG
Lorenzweg 5 • 12099 Berlin
Germany

Phone +49 30 75019-0
Fax +49 30 75019-111

customer.service@aap.de
www.aap.de