

SURGICAL TECHNIQUE

Distal Radius System 2.5



Contents

3	Introduction
3	Product Materials
3	Indications
3	Contraindications
3	Color Coding
3	Possible Combination of Plates and Screws
3	Symbols
4	System Overview
6	Treatment Concept
7	Instrument Application
7	General Instrument Application
7	Sizing Templates
8	Plate Holding and Positioning
8	Bending
11	Cutting
12	Drilling
14	Assigning the Screw Length
15	Screw Pick-Up
16	Specific Instrument Application
16	Drill Guide Blocks
20	Instrument for Restoration of the Volar Tilt
21	Surgical Techniques
21	General Surgical Techniques
21	Lag Screw Technique
22	Distal Two-Row Screw Allocation
23	TriLock ^{PLUS}
24	Specific Surgical Techniques
24	Hook Plates
25	TriLock Lunate Facet Plates
26	TriLock Distal Radius Rim Plates
27	TriLock Wrist Spanning Plates
27	TriLock Wrist Spanning Plates, Curved
32	TriLock Wrist Spanning Plate, Straight
36	Explantation
37	TriLock Locking Technology
37	Correct Application of the TriLock Locking Technology
38	Correct Locking (±15°) of the TriLock Screws in the Plate
39	Implants, Instruments and Containers

Introduction

Product Materials

Product	Material
Plates	Pure titanium, titanium alloy
Screws	Titanium alloy
K-wires	Stainless steel
Instruments	Stainless steel, PEEK, aluminum,
	Nitinol, silicone or titanium
Containers	Stainless steel, aluminum, PEEK,
	polyphenylsulfone, polyurethane,
	silicone

Indications

APTUS Wrist

- Fractures, osteotomies and arthrodesis of the bones of the wrist

Distal Radius plates

- Intra- and extraarticular fractures of the distal radius
- Correction osteotomies of the distal radius

Distal Ulna plates

- Intra- and extraarticular fractures of the distal ulna

Contraindications

- Preexisting or suspected infection at or near the implantation site
- Known allergies and/or hypersensitivity to implant materials
- Inferior or insufficient bone quality to securely anchor the implant
- Patients who are incapacitated and/or uncooperative during the treatment phase
- Growth plates are not to be blocked with plates and screws

Color Coding

System Size	Color Code
2.5	Purple
1.5	Green

Plates and Screws

Special implant plates and screws have their own color:

Implant plates gold Fixation plates Implant plates blue TriLock plates (locking) Cortical screws (fixation) Implant screws gold Implant screws blue TriLock screws (locking)

Implant screws silver TriLock Express screws (locking) SpeedTip screws (self-drilling) Implant screws green

Possible Combination of Plates and Screws

Plates and screws can be combined within one system size:

2.5 TriLock Plates

- 2.5 Cortical Screws, HexaDrive 7
- 2.5 TriLock Screws, HexaDrive 7
- 2.5 TriLock Express Screws, HexaDrive 7

1.5 Fixation Plates

1.5 SpeedTip Screws, HexaDrive 4

Symbols



HexaDrive



TriLock screw hole on sizing templates



TriLock^{PLUS} screw hole on sizing templates

System Overview

The implant plates of the APTUS Distal Radius System 2.5 are available in different designs and various plate lengths. For the complete implant portfolio, please refer to chapter "Implants, Instruments and Containers".



2.5 ADAPTIVE II TriLock Distal Radius Plates, Volar A-4750.101-112



2.5 TriLock Distal Radius Plates FPL, Volar A-4750.123-126



2.5 TriLock Distal Radius Fracture Plates, Volar A-4750.01-02 A-4750.31-32



2.5 TriLock Distal Radius Frame Plates, Volar A-4750.03-06 A-4750.33-36



2.5 TriLock Distal Radius Correction Plates, Volar A-4750.11-12 A-4750.15-20



2.5 TriLock Distal Radius Small Fragment Plates A-4750.57-58 A-4750.131-135









2.5 TriLock Distal Radius Rim Plates, Volar A-4750.145-146



2.5 TriLock Lunate Facet Plates, Volar A-4750.37-38



2.5 TriLock Distal Radius Fracture Plates, Extra-Articular, Volar A-4750.71-74



2.5 TriLock Distal Ulna Plates A-4750.91-92



1.5 Hook Plates A-4200.40-43



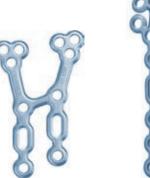
2.5 TriLock Wrist Spanning Plates, Dorsal A-4750.191S-193S



2.5 TriLock Distal Radius Plates, XL, Volar A-4750.75-80

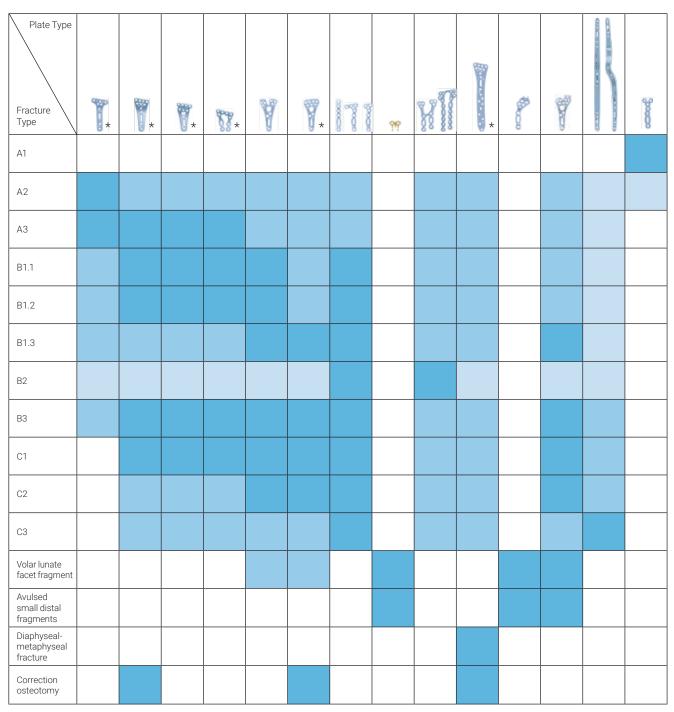


2.5 TriLock Distal Radius Plates, Dorsal A-4750.13-14 A-4750.41-44



Treatment Concept

The table below lists typical clinical findings which can be treated with the implants of the APTUS Distal Radius System 2.5.



Primary recommendation

The above-mentioned information is a recommendation only. The operating surgeon is solely responsible for the choice of the suitable implant for the specific case.

* Soft tissue protecting plate position along the watershed line to be respected, according to Soong et al. (Soong et al.; Volar locking plate implant prominence and flexor tendon rupture; J Bone Joint Surg Am. 2011; 93: 328 – 335)

Recommendation Possible

Instrument Application

General Instrument Application

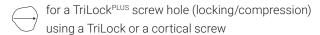
Sizing Templates

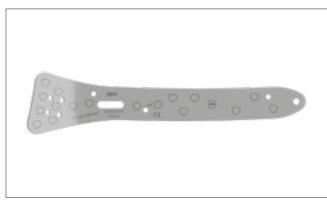
Sizing templates facilitate the intraoperative selection of the appropriate implant.

Sizing templates for the Distal Radius System 2.5 are available according to chapter "Implants, Instruments and Containers".

The sizing templates feature symbols that indicate the type of the screw hole and its position on the respective implant:







Sizing template with TriLock and TriLockPLUS screw hole symbols

The article number of the sizing template (e.g. A-4750.75TP) corresponds to the article number of the sterile implant (e.g. A-4750.75S). The suffix TP stands for template.



A-4750.75TP Template for A-4750.75S

Use appropriate K-wires to temporarily fix the sizing template to the bone, if necessary.

Notice

Do not implant sizing templates.

Do not bend or cut sizing templates.

Plate Holding and Positioning

The TriLock end of the plate holding and positioning instrument (A-2750) can be locked in the TriLock contour of the plate. It facilitates positioning, moving and holding the implant on the bone and can be used with all TriLock 2.5 plate holes.

The other end of the plate holding and positioning instrument is used to pick up the hook plate in order to position it on the bone.





Bending

If required, the TriLock volar fracture plates, the volar frame plates, the dorsal radius plates, the small fragment plates, the lunate facet plates, the hook plates and the distal ulna plates can be bent with the plate bending pliers (A-2047). The plate bending pliers have two different pins to protect the locking holes of flat and curved plates during the bending process.



Warning

Wrong bending of the plate may lead to impaired functionality and postoperative construct failure.

The plate bending pliers are always used in pairs.

The labeled side of the plate must always face upwards when inserting the plate into the bending pliers.



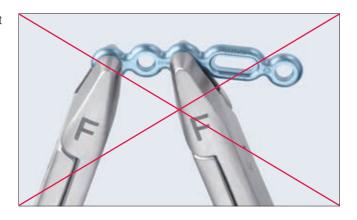
When bending a flat plate (distal radius plates), the plate bending pliers must be held so that the letters "F - FLAT PLATE THIS SIDE UP" are legible from above. This ensures that the plate holes are not damaged.

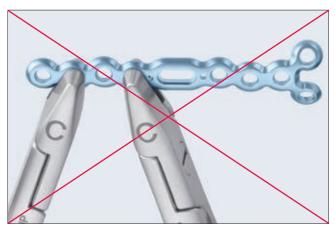


When bending a curved plate (distal ulna plates), the letters "C - CURVED PLATE THIS SIDE UP" must be legible from above. This ensures that the plate holes are not damaged.



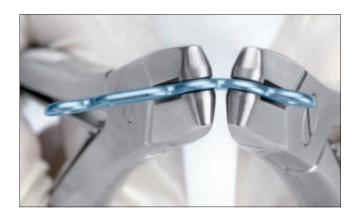
While bending, the plate must always be held at two adjacent holes to prevent contour deformation of the intermediate plate hole.





Warning

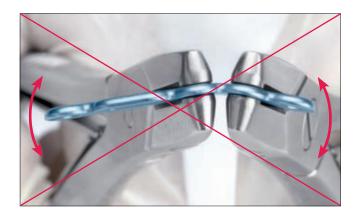
Do not bend the plate by more than 30°. Bending the plate further may deform the plate holes and may cause the plate to break postoperatively.



Warning

Repeatedly bending the plate in opposite directions may cause the plate to break postoperatively.

Always use the provided plate bending pliers to avoid damaging the plate holes. Damaged plate holes prevent correct and secure seating of the screw in the plate and increase the risk of system failure.



Cutting

If required, the plate cutting pliers (A-2046) can be used to cut the TriLock small fragment plates, the volar frame plates, the dorsal radius plates as well as K-wires up to a diameter of 1.8 mm.

Warning

Wrong cutting of the plate may result in sharp edges and lead to injuries of the surrounding tissues.

Ensure that there are no remaining plate segments in the cutting pliers (visual check). Insert the plate from the front into the open cutting pliers. Always ensure that the labeled side of the plate is facing upwards. Hold the implantable plate segment with your hand during and after cutting.

Recommendation

To facilitate the insertion of the plate, support the cutting pliers slightly with your middle finger.

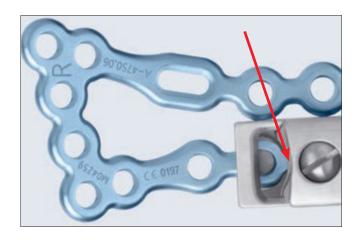
You can visually check the desired cutting line through the cutting window in the head of the pliers. Always leave enough material on the rest of the plate to keep the adjacent hole intact.

Always cut the plate holes individually. If two plate holes need to be cut off, two cutting procedures are necessary.

Shorten the K-wires by inserting the wire through the opening located on the side of the plate cutting pliers. Cut the wire by pressing the pliers.









Drilling

Color-coded twist drills are available for every APTUS system size. All twist drills are color coded with a ring system.

System Size	Color Code
2.5	Purple



There are two different types of twist drills for the system size 2.5: The core hole drills are characterized by one colored ring, the gliding hole drills (for lag screw technique) are characterized by two colored rings.



Warning

The twist drill must always be guided through the drill guide (A-2722, A-2721) or the self-holding drill sleeve (A-2726). This prevents damage to the screw hole and protects the surrounding tissue from direct contact with the drill. The drill guide also serves to limit the pivoting angle.



A-2722 2.5 Drill Guide, Scaled



2.5 Drill Guide for Lag Screws



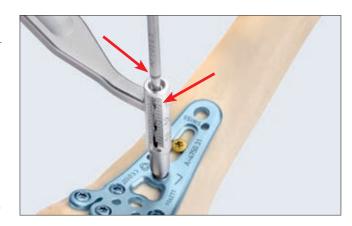
A-2726 2.5 Drill Sleeve, Self-Holding

After positioning the plate, insert the drill guide or the self-holding drill-sleeve and the twist drill into the screw hole.

You can read the required screw length at the scale of the drill guide (A-2722) or the self-holding drill sleeve (A-2726) in connection with the black markings on the drill shaft of the twist drills (A-3713, A-3723 or A-3733).

Notice

The double-ended drill guide for lag screws (A-2721) is used only to perform the classic lag screw technique according to AO/ASIF.



The self-holding drill sleeve (A-2726) can be locked with a clockwise turn in the TriLock holes of the plate (no more than ±15°). It thus performs all of the functions of a drill guide without the need to be held.



Warning

For TriLock plates ensure that the screw holes are predrilled with a pivoting angle of no more than ±15°. For this purpose, the drill guides feature a limit stop of ±15°. A predrilled pivoting angle of >15° no longer allows the TriLock screws to correctly lock in the plate.



Assigning the Screw Length

The depth gauge (A-2730) is used to assign the ideal screw length for use in monocortical or bicortical screw fixation of TriLock screws and cortical screws.

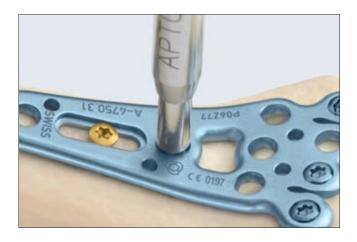


Retract the slider of the depth gauge.

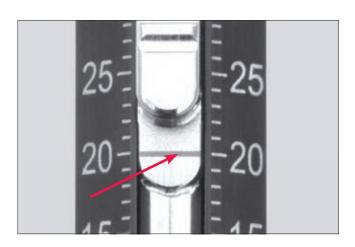
The depth gauge caliper has a hooked tip that is either inserted to the bottom of the hole or is used to catch the far cortex of the bone. When using the depth gauge, the caliper stays static, only the slider is adjusted.



To assign the screw length, place the distal end of the slider onto the implant plate or directly onto the bone (e.g. for fracture fixation with lag screws).



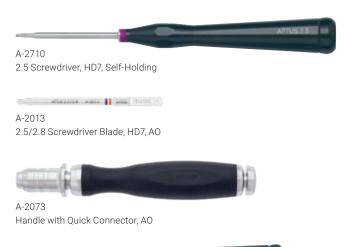
The ideal screw length for the assigned drill hole can be read on the scale of the depth gauge.



Screw Pick-Up

The screwdrivers (A-2310, A-2710) and the screwdriver blade (A-2013) feature the patented HexaDrive self-holding system.



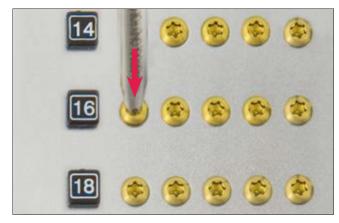


A-2310 1.2/1.5 Screwdriver, HD4, Self-Holding

To remove the screws from the implant container, insert the appropriately color-coded screwdriver perpendicularly into the screw head of the desired screw and pick up the screw with axial pressure.

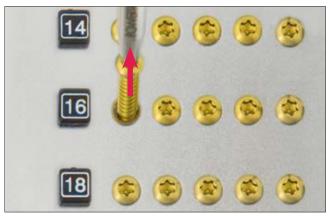
Notice

The screw will not hold without axial pressure.



Caution

Vertically extract the screw from the compartment. Picking up the screw repeatedly may lead to permanent deformation of the self-retaining area of the HexaDrive inside the screw head. Therefore, the screw may no longer be able to be picked up correctly. In this case, a new screw has to be used.



Notice

Check the screw length and diameter at the scale of the measuring module. The screw length is determined at the end of the screw head.



Specific Instrument Application

Drill Guide Blocks

The drill guide blocks serve to rapidly and accurately position the screws in connection with the corresponding TriLock plates. They are marked with L and R for the left and right side. The drill guide blocks are adapted to the distal area of the plates (A-4750.61-64, A-4750.101-112, A-4750.123-126 and A-4750.145-146). There is no danger of drill channels crossing during the drilling process.





right

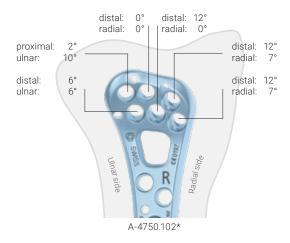
The drill guides (A-2722 or A-2726), the depth gauge (A-2730) as well as two K-wires with a diameter of up to 1.6 mm can be used together with the drill guide block. You can drill, measure and insert the screws through the holes of the attached drill guide block.

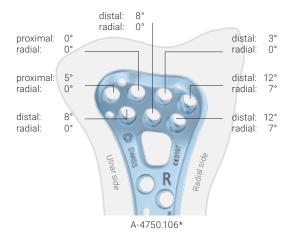
Drill Guide Block	Plates
A-2727.01	A-4750.101/103
A-2727.02	A-4750.102/104
A-2727.03	A-4750.105/107
A-2727.04	A-4750.106/108
A-2727.05	A-4750.109/111
A-2727.06	A-4750.110/112
A-2727.13	A-4750.123/125
A-2727.14	A-4750.124/126
A-2723.01	A-4750.61/63
A-2723.02	A-4750.62/64
A-2727.23	A-4750.145
A-2727.24	A-4750.146

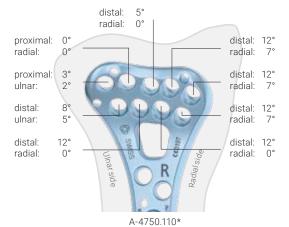
Overview Screw Trajectories

Screw trajectories for the ADAPTIVE II plates, the FPL and rim plates, without and with drill guide block.

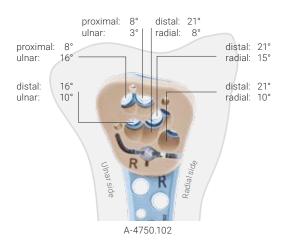
ADAPTIVE II plates (variable angle) *

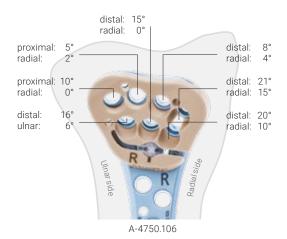


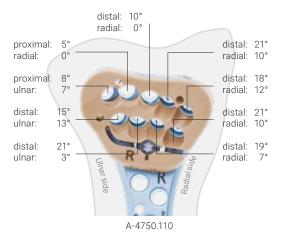




ADAPTIVE II plates with drill guide block (fixed angle)

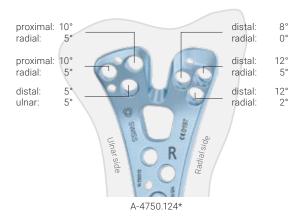




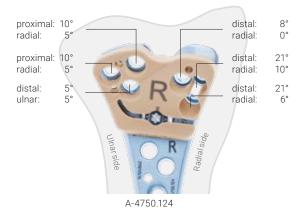


^{*} All screw holes of the ADAPTIVE II plates allow for additional angulation of \pm 15° of the preangled value.

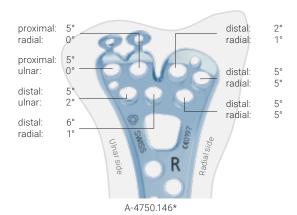
FPL plate (variable angle)*



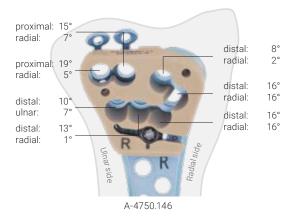
FPL plate with drill guide block (fixed angle)



Rim plate (variable angle) *



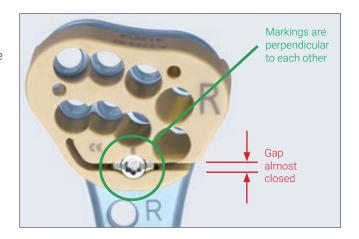
Rim plate with drill guide block (fixed angle)



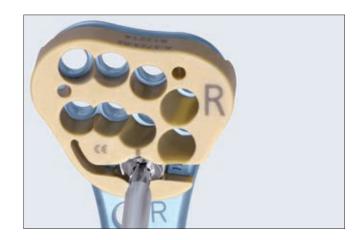
^{*} All screw holes of the FPL and rim plates allow for additional angulation of $\pm 15^{\circ}$ of the preangled value.

Fixing and detaching the drill guide block

The drill guide block is clicked onto the plate, while the markings of the drill guide block and the rotating element are perpendicular to each other.

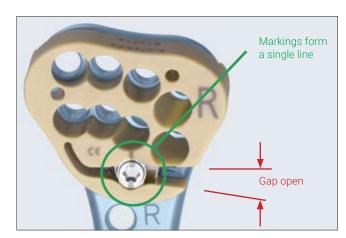


Use the screwdriver A-2710 (or A-2073, A-2013) to turn the rotating element anchored in the drill guide block by a quarter rotation in a clockwise or counter-clockwise direction, until the drill guide block expands and is firmly locked with the plate.



The marking on the drill guide block and the marking on the rotating element will form a single line.

After all screws have been fixed in the distal area of the plate, the drill guide block can be removed in reverse sequence.



Instrument for Restoration of the Volar Tilt

Preparing the instrument

The 2.5 instrument for restoration of the volar tilt (A-2794) can only be used together with the correction plates (A-4750.11-12, A-4750.15-20) and the ADAPTIVE plates (A-4750.61-64, A-4750.101-112).

Position the laser marking of the guide wire at the required correction angle.

Positioning the instrument

Insert and lock (with a clockwise turn) the instrument into the appropriate screw hole.

Correction plates: Insert the instrument into the second screw hole proximal to the oblong hole.

ADAPTIVE plates: Insert the instrument into the screw hole just proximal to the oblong hole.

Fixation of the plate

After the appropriate incision, the distal aspect of the plate has to be positioned as close as possible to the watershed

Fix the plate distally with the mounted instrument with at least two TriLock screws (A-5750.xx). To avoid collision with the mounted instrument during drilling, choose the screw holes accordingly.

Remove the plate with the mounted instrument.

Make the osteotomy.

Warning

Depending on the level of correction, some cases may require bone grafting between the proximal and the distal fragments, autologous bone is recommended. Insufficient bone grafting can increase the risk of breakage of the plate.

Final fixation of the plate with the mounted instrument in the predrilled distal holes.

Remove the instrument and insert additional screws distally.

Warning

For ideal results, place at least three TriLock screws into the most distal row and two TriLock screws into the second distal row.

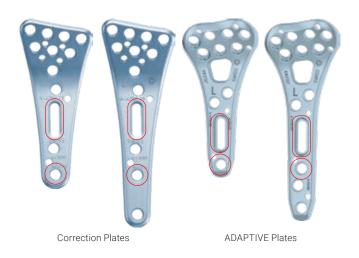
The distal fragment is reduced by aligning the proximal end of the plate shaft.

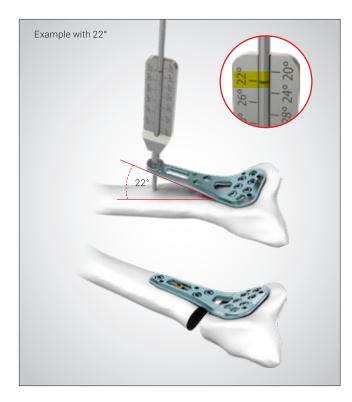
Continue the fixation by placing a cortical screw (A-5700.xx) into the oblong hole. Complete the fixation of the plate shaft with screws of which at least one should be a TriLock screw (distally to the oblong hole).



A-2794

2.5 Instrument for Restoration of the Volar Tilt





Surgical Techniques

General Surgical Techniques

Lag Screw Technique

Warning

Incorrect application of the lag screw technique may result in postoperative loss of reduction.

1. Drilling the gliding hole

Drill the gliding hole using the APTUS twist drill marked with two purple rings (A-3711, A-3721, A-3731, Ø 2.6 mm) in combination with the end of the drill guide (A-2721) labeled with two purple bars. Drill perpendicular to the fracture line.

Do not drill further than to the fracture line.



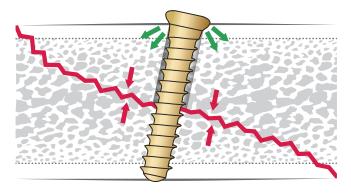
2. Drilling the core hole

Insert the other end of the drill guide (A-2721) into the drilled gliding hole and use the twist drill for core holes with one purple ring (A-3713, A-3723, A-3733, Ø 2.0 mm) to drill the core hole.



3. Compressing the fracture

Compress the fracture with the corresponding cortical screw (A-5700.xx).



4. Optional steps before compression

If required, use the countersink (A-3830) to create a recess in the bone for the screw head.

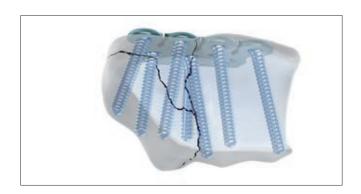
Caution

Use the handle (A-2073) instead of a power tool to reduce the risk of countersinking too far through the near cortex.



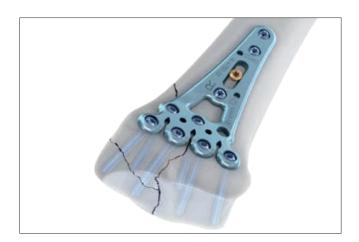
Distal Two-Row Screw Allocation

During application on the distal radius, ensure that screws are inserted in two rows at the distal end of the plate. This not only increases stability, but also provides the best possible subchondral support of the radiocarpal joint. Drill the two distal screw rows as subchondrally as possible, which automatically leads to the screws crossing over.



Warning

Insert at least three TriLock screws into the most distal row and two TriLock screws into the second distal row.



Warning

For a stable fixation of distal ulna fractures, ensure that at least three TriLock screws are set distally to the fracture line and at least two proximally. A distal orientation of the screw from the second distal row permits subchondral support of the ulnar head.



TriLockPLUS

TriLockPLUS holes are available on all XL plates (A-4750.75-80).

TriLockPLUS allows for 1 mm compression and angular stable locking in one step.

For this technique, a TriLock screw, the 2.5/2.8 drill guide TriLock^{PLUS} (A-2026) and a plate with a TriLock^{PLUS} hole are required. The TriLockPLUS holes and the respective end of the drill guide are both marked with an arrow indicating the direction of the compression. Before using a TriLockPLUS hole, ensure that there is no fixation on the TriLockPLUS side, and fix the plate with at least one TriLock screw on the opposite side of the fracture or osteotomy line.

1. Positioning the drill guide in the plate

Following the direction of the compression, insert the 2.5/2.8 drill guide TriLockPLUS perpendicular to the plate. The arrow on the drill guide and the plate both indicate the direction of the compression.

Warning

Correct compression is only achieved if the drill guide is inserted in a 90° angle into the plate.

2. Drilling through the drill guide TriLockPLUS

Use the twist drill for core holes with one purple ring (A-3713, A-3723, A-3733) to completely drill through the bone (bicortically).

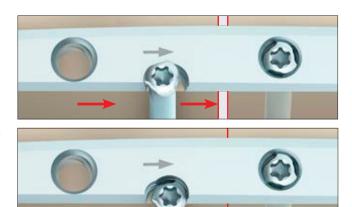


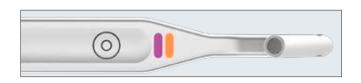


3. Inserting the screw and locking in final position

Insert a TriLock screw into the predrilled hole. Axial compression starts as soon as the screw head touches the plate. The final position is reached when the screw is locked into the TriLock screw hole.

TriLock PLUS holes can also be used as conventional TriLock holes allowing for multidirectional (±15°) and angular stable locking with TriLock screws or for the insertion of cortical screws. For conventional drilling, use the respective end of the drill guide (A-2026, A-2722, A-2726), see also section "Drilling".





Specific Surgical Techniques

Hook Plates

1. Picking up the plate

Pick up the hook plate (A-4200.40-43) with the holding and positioning instrument (A-2750) at the middle bar with slight axial pressure.



2. Positioning the plate

Press the hooks against the avulsed fragment and reconstruct the original anatomy.



3. Fixation of the plate

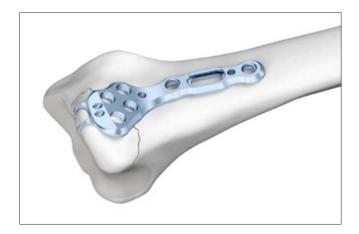
Insert the SpeedTip screws Ø 1.5 mm (without predrilling) and fix the avulsed fragment.



TriLock Lunate Facet Plates

1. Positioning the plate

Hold the ulnar small fragment with the pre-bent hooks of the TriLock lunate facet plate (A-4750.37, A-4750.38).

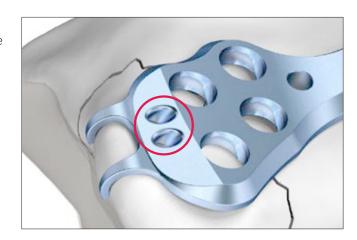


2. Attaching soft tissue

For additional soft tissue attachment, the suture holes in the plate (hole diameter = 1.3 mm) can be used.

Caution

Do not insert K-wires into the suture holes.



3. Fixation of the plate

Drill, assign the screw length and insert the screw (see section "Drilling" and "Assigning the Screw Length"). Start with the cortical screw in the oblong hole. Repeat these steps with the remaining plate holes.



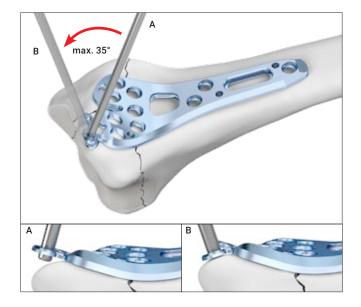
TriLock Distal Radius Rim Plates

1. Positioning the plate

Bend the flaps of the distal radius rim plate (A-4750.145, A-4750.146) using the round end of the K-wire (A-5040.41, A-5042.41). Do not bend the flaps by more than 35°.

Warning

The flaps can be bent once. Bending of the flaps in opposite directions may cause the plate to break postoperatively.



2. Fixation of the plate

Insert two SpeedTip screws Ø 1.5 mm (without predrilling) to fixate the fragment. The screw holes can also be used for soft tissue fixation by means of a suture (hole diameter = 1.7 mm).



Drill, assign the screw length and insert the screw (see section "Drilling" and "Assigning the Screw Length"). Start with the cortical screw in the oblong hole. Repeat these steps with the remaining plate holes.

Recommendation

The drill guide blocks (A-2727.23, A-2727.24) can be used along with the distal radius rim plates (A-4750.145, A-4750.146) for fast and precise positioning of the screws (see section "Drill Guide Blocks").



TriLock Wrist Spanning Plates

The curved plates (A-4750.191S, A-4750.192S) are designed for distal radius fracture fixation over the 3rd metacarpal.

Be certain to select the plate with the correct laterality as the plates are designed to treat distal radius fractures of left (A-4750.191S) and right (A-4750.192S) forearms.

The straight plate (A-4750.193S) is designed for distal radius fracture fixation over the 2nd metacarpal.

TriLock Wrist Spanning Plates, Curved (A-4750.191S, A-4750.192S)

1. Surgical approach

Position the preferred plate on the skin over the 3rd metacarpal and radial shaft. Use intraoperative X-ray control to verify the correct plate position.

Mark the distal and proximal plate ends.



Make a first incision over the dorsal aspect of the 3rd metacarpal shaft. Mobilize the extensor tendon to the side and expose the bone.



2. Positioning the plate and initial fixation

With the wrist flexed and beginning immediately ulnar to Lister's tubercle, insert the plate from distal to proximal deep to the fourth dorsal compartment until the plate's bend settles naturally into the carpal recess.



Once fully inserted use intraoperative X-ray control to verify the correct plate position. Palpate the proximal edge of the plate. Make a second incision over this portion of the plate.

Split the muscle until the plate is identified. Confirm that the plate is centered on the radius without any soft tissue interposition.

Although the plate has been designed to avoid tendon entrapment, particularly the extensor pollicis longus (EPL), trauma may obscure the normal anatomy. In cases when the EPL may be substantially displaced by the trauma, or if the patient is very small, surgeons may elect to make a small incision over Lister's tubercle to verify that the EPL remains free from the plate.

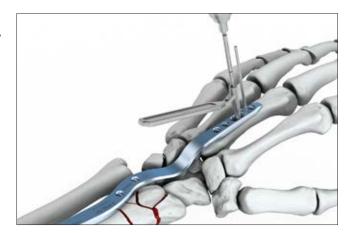
Similarly, this third incision may be made to access the fracture site in order to obtain reduction or add bone graft when needed.



Extend the wrist to meet the plate distally. For temporary plate fixation, K-wires (A-5040.41, A-5042.41, A-5045.41) may be inserted into the metacarpal.

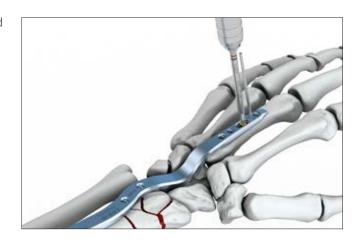
Use intraoperative X-ray control to verify the correct plate position.

With the drill guide (A-2722) and the APTUS twist drill (A-3713, A-3723, A-3733) for core diameter 2.0 mm (one purple ring), drill a core hole in the metacarpal through the center of the distal oblong hole.



Assign the screw length using the depth gauge (A-2730) and insert a cortical screw Ø 2.5 mm (A-5700.xx).

If the plate position needs adjustment: remove the distal K-wire, slightly loosen the cortical screw in the oblong hole, readjust the position of the plate and retighten the cortical screw.



Drill, assign the screw length and fill the remaining distal screw holes in the metacarpal with TriLock screws Ø 2.5 mm (A-5750.xx).

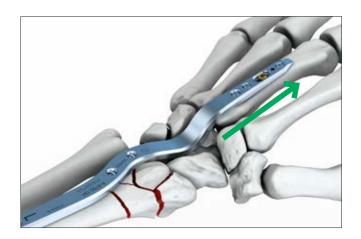
Remove all K-wires (A-5040.41, A-5042.41, A-5045.41) if previously placed.



3. Reducing the fracture and fixation of the plate

While in neutral rotation, apply longitudinal traction to utilize the effect of ligamentotaxis for restoration of articular surface congruency, radial height and inclination.

Avoid inappropriate rotation while performing distraction. Applying traction in a pronated position may result in a rotational malreduction.





For temporary plate fixation, K-wires (A-5040.41, A-5042.41, A-5045.41) may be inserted into the radial shaft.

Drill, assign the screw length and fill the proximal oblong hole centrally with a cortical screw Ø 2.5 mm (A-5700.xx).

Use intraoperative X-ray control to assess the reduction prior to securing the plate proximally.

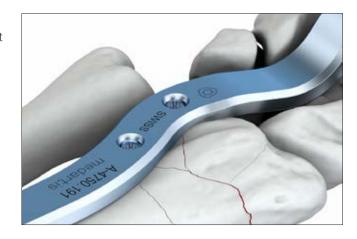
If further adjustment is needed: remove the proximal K-wire, slightly loosen the cortical screw in the oblong hole, readjust the position of the plate and retighten the cortical screw.

Drill, assign the screw length and fill the remaining proximal screw holes with TriLock screws Ø 2.5 mm (A-5750.xx).

Remove all K-wires (A-5040.41, A-5042.41, A-5045.41) if previously placed.



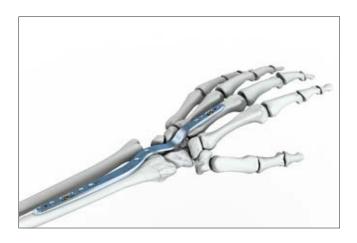
The plate provides optional holes that can be used for several purposes, including direct buttressing of lunate facet with TriLock screws Ø 2.5 mm (A-5750.xx).



4. Closure and aftercare

Close the incisions as per surgeon's preference.

Patients are instructed to elevate the extremity and mobilize the fingers actively. Once the distal radius has healed, the plate should be removed to allow wrist motion (usually four months).

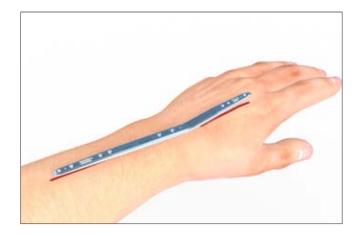


TriLock Wrist Spanning Plate, Straight (A-4750.193S)

1. Surgical approach

Position the plate on the skin over the 2nd metacarpal and radial shaft. Use intraoperative X-ray control to verify the correct plate position.

Mark the distal and proximal plate ends.



Make a first incision over the dorsal aspect of the 2^{nd} metacarpal shaft. Avoid injury to branches of the superficial radial nerve overlying the 2^{nd} metacarpal. Mobilize the extensor tendon to the side and expose the bone.



2. Positioning the plate and initial fixation

Insert the plate from distal to proximal with the wrist flexed. Advance the plate retrograde deep into the 2nd dorsal compartment in alignment with the axis of the radial shaft.



Once fully inserted, use intraoperative X-ray control to verify the correct plate position. Palpate the proximal edge of the plate. Make a second incision over this portion of the plate.

Avoid the lateral antebrachial cutaneous nerve superficial to the fascia as well as the superficial branch of the radial nerve deep to the fascia and brachioradialis muscle.

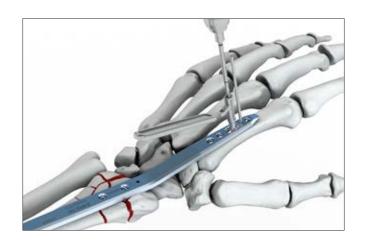
Split the muscle until the plate is identified. Confirm that the plate is centered on the radius without any soft tissue interposition.



Extend the wrist to meet the plate distally. For temporary plate fixation, K-wires (A-5040.41, A-5042.41, A-5045.41) may be inserted into the metacarpal.

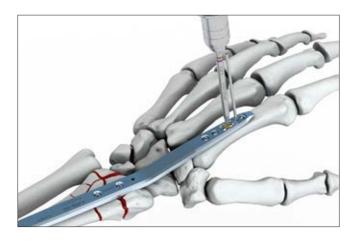
Use intraoperative X-ray control to verify the correct plate position.

With the drill guide (A-2722) and the APTUS twist drill (A-3713, A-3723, A-3733) for core diameter 2.0 mm (one purple ring), drill a core hole in the metacarpal through the center of the distal oblong hole.



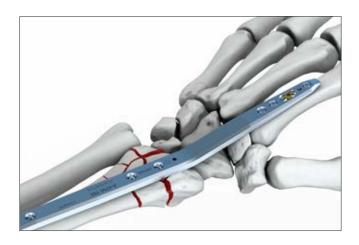
Assign the screw length using the depth gauge (A-2730) and insert a cortical screw Ø 2.5 mm (A-5700.xx).

If the plate position needs adjustment: remove the distal K-wire, slightly loosen the cortical screw in the oblong hole, readjust the position of the plate and retighten the cortical screw.



Drill, assign the screw length and fill the remaining distal screw holes in the metacarpal with TriLock screws Ø 2.5 mm (A-5750.xx).

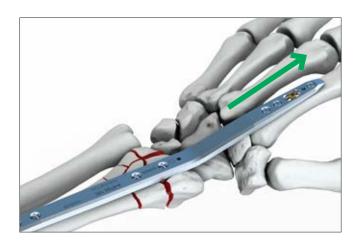
Remove all K-wires (A-5040.41, A-5042.41, A-5045.41) if previously placed.

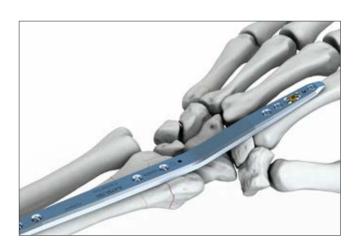


3. Reducing the fracture and fixation of the plate

While in neutral rotation, apply longitudinal traction to utilize the effect of ligamentotaxis for restoration of articular surface congruency, radial height and inclination.

Avoid inappropriate rotation while performing distraction. Applying traction in a pronated position may result in a rotational malreduction.





For temporary plate fixation, K-wires (A-5040.41, A-5042.41, A-5045.41) may be inserted into the radial shaft.

Drill, assign the screw length and fill the proximal oblong hole centrally with a cortical screw Ø 2.5 mm (A-5700.xx).

Use intraoperative X-ray control to assess the reduction prior to securing the plate proximally.

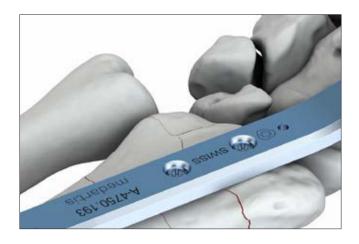
If further adjustment is needed: remove the proximal K-wire, slightly loosen the cortical screw in the oblong hole, readjust the position of the plate and retighten the cortical screw.

Drill, assign the screw length and fill the remaining proximal screw holes with TriLock screws Ø 2.5 mm (A-5750.xx).

Remove all K-wires (A-5040.41, A-5042.41, A-5045.41) if previously placed.



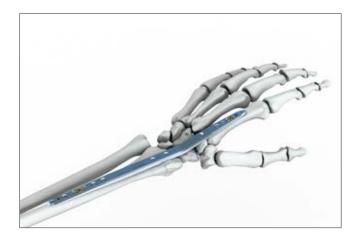
The plate provides optional holes that can be used for several purposes, including direct buttressing of scaphoid facet with TriLock screws Ø 2.5 mm (A-5750.xx).



4. Closure and aftercare

Close the incisions as per surgeon's preference.

Patients are instructed to elevate the extremity and mobilize the fingers actively. Once the distal radius has healed, the plate should be removed to allow wrist motion (usually four months).



Explantation

Explantation of Wrist Plates

1. Removing the screws

Unlock all screws and remove them.

The order in which the screws are removed is not relevant.

In case the plate sticks to the bone, use a periosteal elevator to carefully lift and detach it from the bone.

Notice

When removing the screws, make sure that the screwdriver/ screw head connection is aligned in axial direction.

TriLock Locking Technology

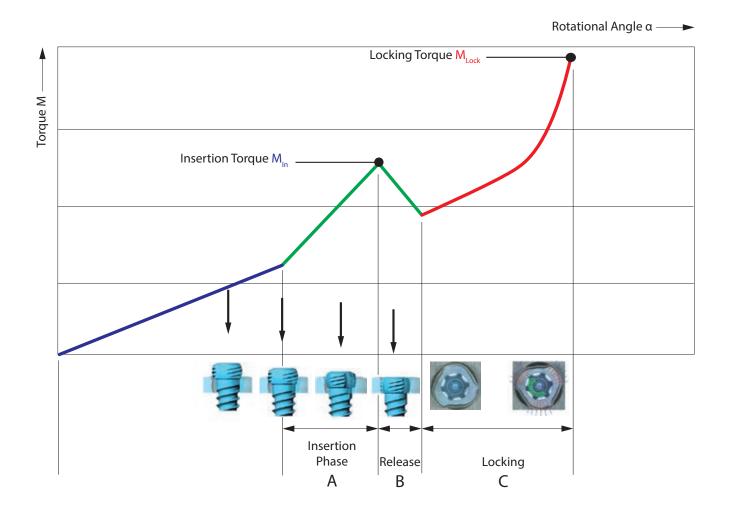
Correct Application of the TriLock Locking Technology

The screw is inserted through the plate hole into a predrilled canal in the bone. An increase of the tightening torque will be felt as soon as the screw head gets in contact with the plate surface.

This indicates the start of the «Insertion Phase» as the screw head starts entering the locking zone of the plate (section "A" in the diagram). Afterwards, a drop of the tightening torque

occurs (section "B" in the diagram). Finally the actual locking is initiated (section "C" in the diagram) as a friction connection is established between screw and plate when tightening firmly.

The torque applied during fastening of the screw is decisive for the quality of the locking as described in section "C" of the diagram.



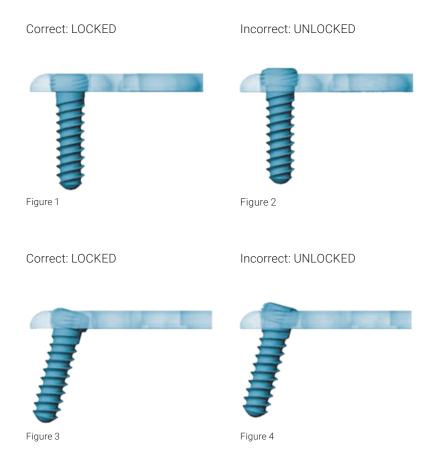
Correct Locking (±15°) of the TriLock Screws in the Plate

Correct locking occurs only when the screw head is locked flush with the locking contour (Fig. 1 and 3).

bone quality a slight axial pressure may be necessary to achieve proper locking.

However, if there is still a noticeable protrusion (Fig. 2 and 4), the screw head has not completely reached the locking position. In this case, the screw has to be retightened to obtain full penetration and proper locking. In case of poor

After having reached the locking torque (MLock), do not further tighten the screw, otherwise the locking function cannot be guaranteed anymore.



Implants, Instruments and Containers

2.5 Cortical Screws, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces / Pkg	Art. No.	Pieces / Pkg
8 mm	A-5700.08/1	A-5700.08/1S	1	A-5700.08	5
10 mm	A-5700.10/1	A-5700.10/1S	1	A-5700.10	5
11 mm	A-5700.11/1		1		
12 mm	A-5700.12/1	A-5700.12/1S	1	A-5700.12	5
13 mm	A-5700.13/1		1		
14 mm	A-5700.14/1	A-5700.14/1S	1	A-5700.14	5
15 mm	A-5700.15/1		1		
16 mm	A-5700.16/1	A-5700.16/1S	1	A-5700.16	5
18 mm	A-5700.18/1	A-5700.18/1S	1	A-5700.18	5
20 mm	A-5700.20/1	A-5700.20/1S	1	A-5700.20	5
22 mm	A-5700.22/1	A-5700.22/1S	1	A-5700.22	5
24 mm	A-5700.24/1	A-5700.24/1S	1	A-5700.24	5
26 mm	A-5700.26/1	A-5700.26/1S	1	A-5700.26	5
28 mm	A-5700.28/1	A-5700.28/1S	1	A-5700.28	5
30 mm	A-5700.30/1	A-5700.30/1S	1	A-5700.30	5
32 mm	A-5700.32/1	A-5700.32/1S	1	A-5700.32	5
34 mm	A-5700.34/1	A-5700.34/1S	1	A-5700.34	5

2.5 TriLock Screws, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces / Pkg	Art. No.	Pieces / Pkg
8 mm	A-5750.08/1	A-5750.08/1S	1	A-5750.08	5
10 mm	A-5750.10/1	A-5750.10/1S	1	A-5750.10	5
12 mm	A-5750.12/1	A-5750.12/1S	1	A-5750.12	5
14 mm	A-5750.14/1	A-5750.14/1S	1	A-5750.14	5
16 mm	A-5750.16/1	A-5750.16/1S	1	A-5750.16	5
18 mm	A-5750.18/1	A-5750.18/1S	1	A-5750.18	5
20 mm	A-5750.20/1	A-5750.20/1S	1	A-5750.20	5
22 mm	A-5750.22/1	A-5750.22/1S	1	A-5750.22	5
24 mm	A-5750.24/1	A-5750.24/1S	1	A-5750.24	5
26 mm	A-5750.26/1	A-5750.26/1S	1	A-5750.26	5
28 mm	A-5750.28/1	A-5750.28/1S	1	A-5750.28	5
30 mm	A-5750.30/1	A-5750.30/1S	1	A-5750.30	5
32 mm	A-5750.32/1	A-5750.32/1S	1	A-5750.32	5
34 mm	A-5750.34/1	A-5750.34/1S	1	A-5750.34	5

2.5 TriLock Express Screws, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces / Pkg	Art. No.	Pieces / Pkg
14 mm	A-5755.14 / 1	A-5755.14/1S	1	A-5755.14	5
16 mm	A-5755.16 / 1	A-5755.16 / 1S	1	A-5755.16	5
18 mm	A-5755.18 / 1	A-5755.18 / 1S	1	A-5755.18	5
20 mm	A-5755.20 / 1	A-5755.20 / 1S	1	A-5755.20	5
22 mm	A-5755.22 / 1	A-5755.22 / 1S	1	A-5755.22	5
24 mm	A-5755.24 / 1	A-5755.24 / 1S	1	A-5755.24	5

1.5 SpeedTip Screws, Self-Drilling, HexaDrive 4

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces / Pkg	Art. No.	Pieces / Pkg
8 mm	A-5210.08/1	A-5210.08/1S	1	A-5210.08	5
10 mm	A-5210.10/1	A-5210.10/1S	1	A-5210.10	5
12 mm	A-5210.12/1	A-5210.12/1S	1	A-5210.12	5
14 mm	A-5210.14/1	A-5210.14/1S	1	A-5210.14	5

2.5 Drill Guide Blocks, FPL

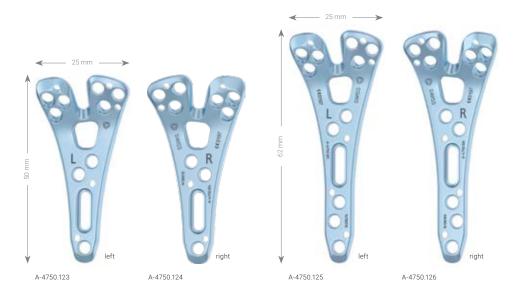
Material: PEEK



Art. No.				Pieces / Pkg
A-2727.13	left	A-4750.123 / 125	6	1
A-2727.14	right	A-4750.124 / 126	6	1

2.5 TriLock Distal Radius Plates FPL, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm



Art. No.	STERILE				Pieces / Pkg
A-4750.123	A-4750.123S	A-4750.123TP	left	10	1
A-4750.124	A-4750.124S	A-4750.124TP	right	10	1
A-4750.125	A-4750.125S	A-4750.125TP	left, long	12	1
A-4750.126	A-4750.126S	A-4750.126TP	right, long	12	1

2.5 Drill Guide Blocks, ADAPTIVE II

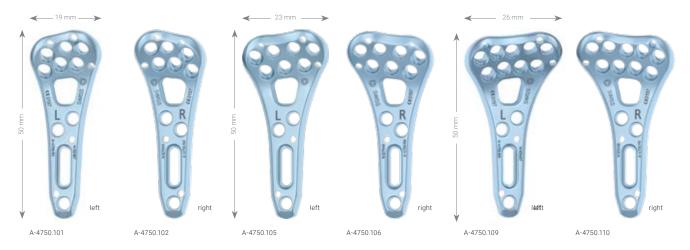
Material: PEEK



Art. No.				Pieces / Pkg
A-2727.01	left, narrow	A-4750.101 / 103	6	1
A-2727.02	right, narrow	A-4750.102 / 104	6	1
A-2727.03	left	A-4750.105 / 107	7	1
A-2727.04	right	A-4750.106 / 108	7	1
A-2727.05	left, wide	A-4750.109 / 111	9	1
A-2727.06	right, wide	A-4750.110 / 112	9	1

2.5 ADAPTIVE II TriLock Distal Radius Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm

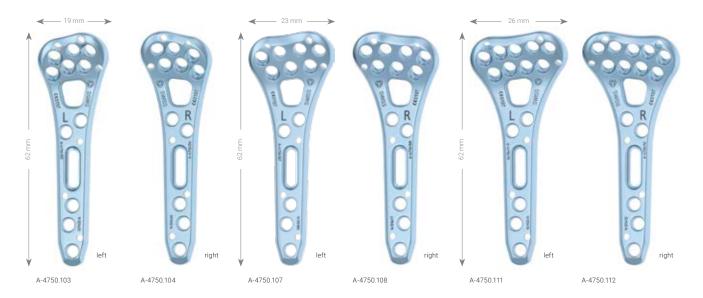


Art. No.	STERILE	Template	Description	Holes	Pieces / Pkg
A-4750.101	A-4750.101S	A-4750.101TP	left, narrow	10	1
A-4750.102	A-4750.102S	A-4750.102TP	right, narrow	10	1
A-4750.105	A-4750.105S	A-4750.105TP	left	11	1
A-4750.106	A-4750.106S	A-4750.106TP	right	11	1
A-4750.109	A-4750.109S	A-4750.109TP	left, wide	13	1
A-4750.110	A-4750.110S	A-4750.110TP	right, wide	13	1

medartis.com Scale 1:1

2.5 ADAPTIVE II TriLock Distal Radius Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm



Art. No.	STERILE				Pieces / Pkg
A-4750.103	A-4750.103S	A-4750.103TP	left, narrow, long	12	1
A-4750.104	A-4750.104S	A-4750.104TP	right, narrow, long	12	1
A-4750.107	A-4750.107S	A-4750.107TP	left, long	13	1
A-4750.108	A-4750.108S	A-4750.108TP	right, long	13	1
A-4750.111	A-4750.111S	A-4750.111TP	left, wide, long	15	1
A-4750.112	A-4750.112S	A-4750.112TP	right, wide, long	15	1

2.5 Drill Guide Blocks, ADAPTIVE

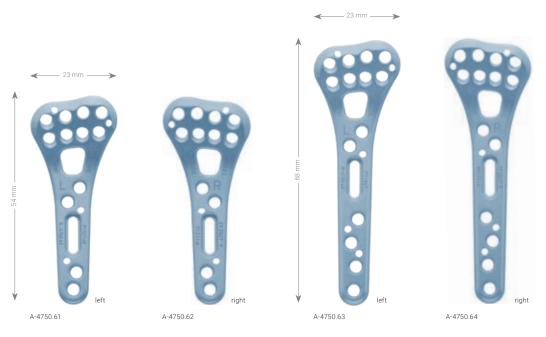
Material: PEEK



Art. No.				
A-2723.01	left	A-4750.61/63	8	1
A-2723.02	right	A-4750.62/64	8	1

2.5 ADAPTIVE TriLock Distal Radius Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0

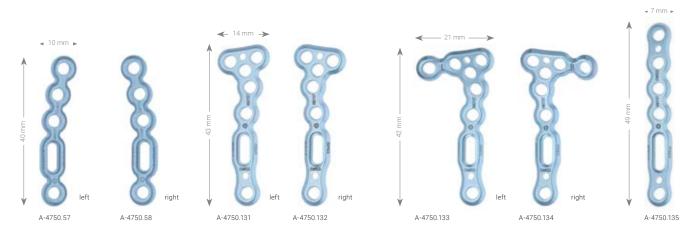


Art. No.	STERILE	Template	Description	Holes	Pieces / Pkg
A-4750.61	A-4750.61S	A-4750.61TP	left	13	1
A-4750.62	A-4750.62S	A-4750.62TP	right	13	1
A-4750.63	A-4750.63S	A-4750.63TP	left, long	15	1
A-4750.64	A-4750.64S	A-4750.64TP	right, long	15	1

medartis.com Scale 1:1

2.5 TriLock Distal Radius Small Fragment Plates

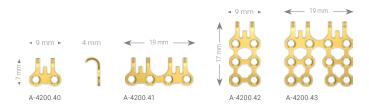
Material: Titanium (ASTM F67) Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Description	Holes	Pieces / Pkg
A-4750.57	A-4750.57S	A-4750.57TP	left, curved	5	1
A-4750.58	A-4750.58S	A-4750.58TP	right, curved	5	1
A-4750.131	A-4750.131S	A-4750.131TP	Tleft	7 (3/4)	1
A-4750.132	A-4750.132S	A-4750.132TP	Tright	7 (3/4)	1
A-4750.133	A-4750.133S	A-4750.133TP	Lleft	8 (4/4)	1
A-4750.134	A-4750.134S	A-4750.134TP	L right	8 (4/4)	1
A-4750.135	A-4750.135S	A-4750.135TP	lateral	6	1

1.5 Hook Plates

Material: Titanium (ASTM F67) Plate thickness: 0.6 mm



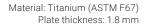
Art. No.	STERILE			Pieces / Pkg
A-4200.40	A-4200.40S	2 hooks	2	1
A-4200.41	A-4200.41S	4 hooks	4	1
A-4200.42	A-4200.42S	2 hooks	6	1
A-4200.43	A-4200.43S	4 hooks	12	1



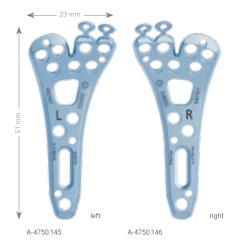


				Pieces / Pkg
A-2727.23	left	A-4750.145	7	1
A-2727.24	right	A-4750.146	7	1

2.5 TriLock Distal Radius Rim Plates, Volar

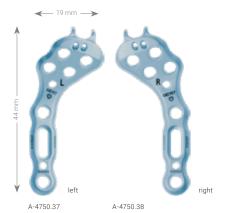


Material: Titanium (ASTM F67) Plate thickness: 1.6 mm



Art. No.	STERILE			Pieces / Pkg
A-4750.145	A-4750.145S	left	13	1
A-4750.146	A-4750.146S	right	13	1

2.5 TriLock Lunate Facet Plates, Volar

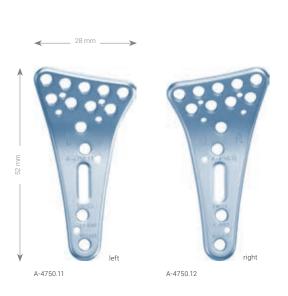


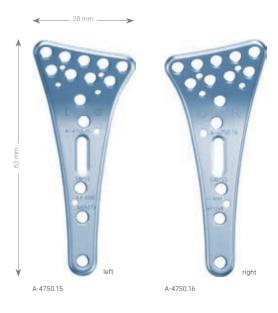
Art. No.	STERILE	Description	Holes	Pieces / Pkg
A-4750.37	A-4750.37S	left	7	1
A-4750.38	A-4750.38S	right	7	1

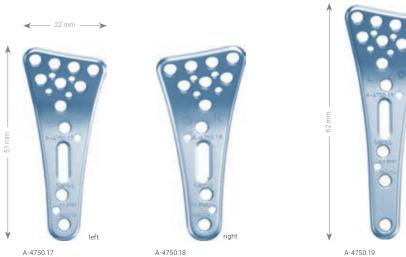
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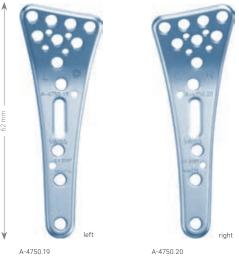
2.5 TriLock Distal Radius Correction Plates, Volar *

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm







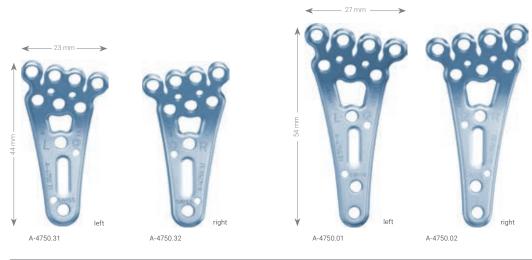


Art. No.	STERILE				Pieces / Pkg
A-4750.11	A-4750.11S	A-4750.11TP	left	14	1
A-4750.12	A-4750.12S	A-4750.12TP	right	14	1
A-4750.15	A-4750.15S	A-4750.15TP	left, long	15	1
A-4750.16	A-4750.16S	A-4750.16TP	right, long	15	1
A-4750.17	A-4750.17S	A-4750.17TP	left, narrow	12	1
A-4750.18	A-4750.18S	A-4750.18TP	right, narrow	12	1
A-4750.19	A-4750.19S	A-4750.19TP	left, narrow, long	13	1
A-4750.20	A-4750.20S	A-4750.20TP	right, narrow, long	13	1

^{*} Plates can also be used for treatment of fractures

2.5 TriLock Distal Radius Fracture Plates, Volar

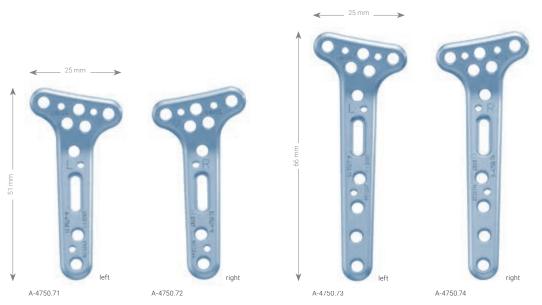
Material: Titanium (ASTM F67) Plate thickness: 1.6 mm



Art. No.	STERILE				Pieces / Pkg
A-4750.01	A-4750.01S	A-4750.01TP	left	11	1
A-4750.02	A-4750.02S	A-4750.02TP	right	11	1
A-4750.31	A-4750.31S	A-4750.31TP	left, narrow, short	10	1
A-4750.32	A-4750.32S	A-4750.32TP	right, narrow, short	10	1

2.5 TriLock Distal Radius Fracture Plates, Extra-Articular, Volar

Material: Titanium (ASTM F67) Plate thickness: 2.0 mm

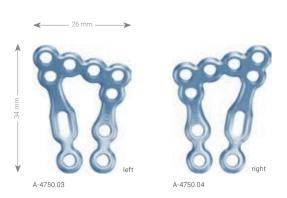


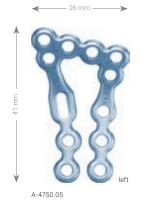
Art. No.	STERILE				Pieces / Pkg
A-4750.71	A-4750.71S	A-4750.71TP	left	9	1
A-4750.72	A-4750.72S	A-4750.72TP	right	9	1
A-4750.73	A-4750.73S	A-4750.73TP	left, long	11	1
A-4750.74	A-4750.74S	A-4750.74TP	right, long	11	1

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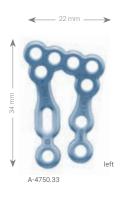
2.5 TriLock Distal Radius Frame Plates, Volar

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

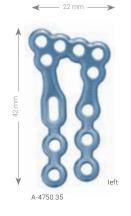










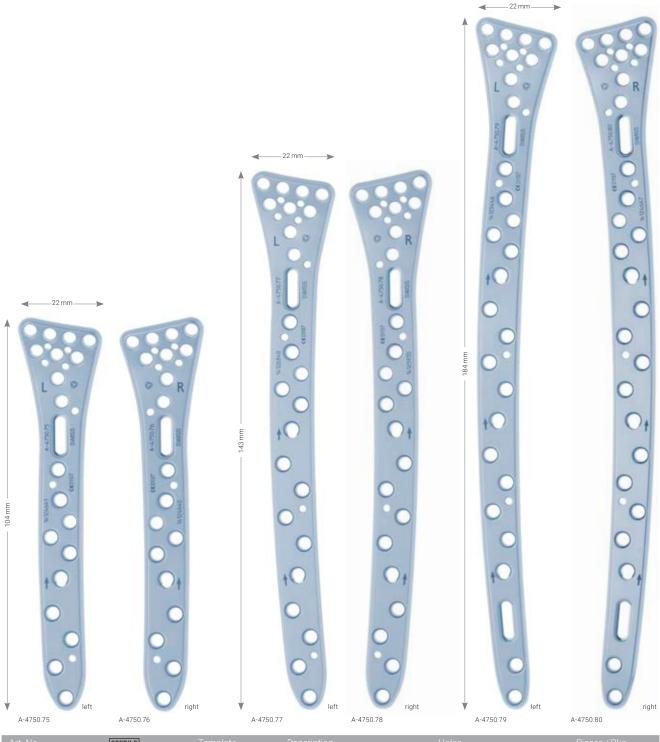




Art. No.	STERILE	Template	Description	Holes	Pieces / Pkg
A-4750.03	A-4750.03S	A-4750.03TP	left	10	1
A-4750.04	A-4750.04S	A-4750.04TP	right	10	1
A-4750.05	A-4750.05S	A-4750.05TP	left, long	12	1
A-4750.06	A-4750.06S	A-4750.06TP	right, long	12	1
A-4750.33	A-4750.33S	A-4750.33TP	left, narrow	10	1
A-4750.34	A-4750.34S	A-4750.34TP	right, narrow	10	1
A-4750.35	A-4750.35S	A-4750.35TP	left, narrow, long	12	1
A-4750.36	A-4750.36S	A-4750.36TP	right, narrow, long	12	1

2.5 TriLock Distal Radius Plates, XL, Volar

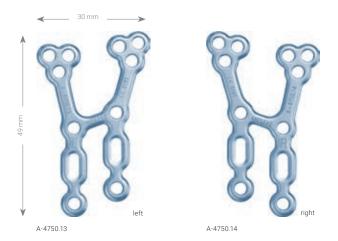
Material: Titanium (ASTM F67) Plate thickness: 1.8 - 3.2 mm

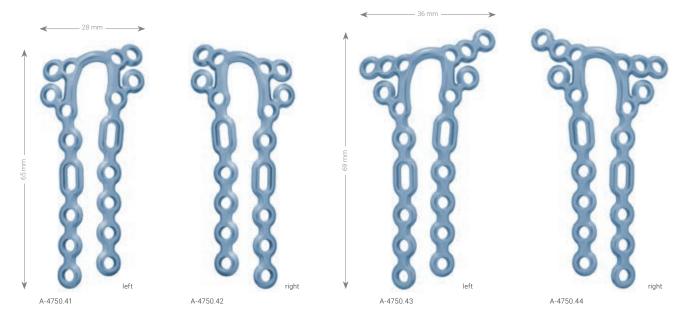


Art. No.	STERILE	Template	Description		Pieces / Pkg
A-4750.75	A-4750.75S	A-4750.75TP	left, TriLock ^{PLUS}	20	1
A-4750.76	A-4750.76S	A-4750.76TP	right, TriLock ^{PLUS}	20	1
A-4750.77	A-4750.77S	A-4750.77TP	left, TriLockPLUS	25	1
A-4750.78	A-4750.78S	A-4750.78TP	right, TriLock ^{PLUS}	25	1
A-4750.79	A-4750.79S	A-4750.79TP	left, TriLockPLUS	29	1
A-4750.80	A-4750.80S	A-4750.80TP	right, TriLock ^{PLUS}	29	1

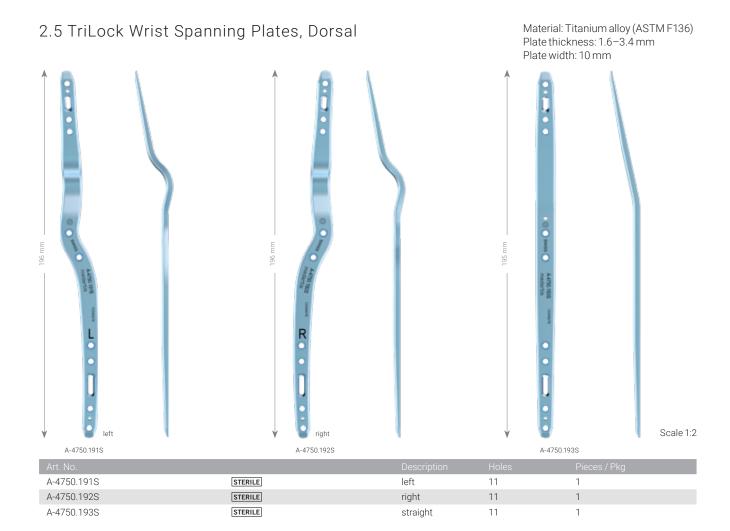
2.5 TriLock Distal Radius Plates, Dorsal

Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

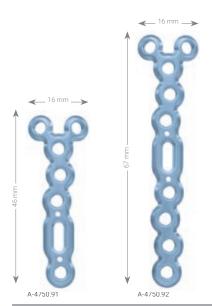




Art. No.	STERILE				Pieces / Pkg
A-4750.13	A-4750.13S	A-4750.13TP	H, left	12	1
A-4750.14	A-4750.14S	A-4750.14TP	H, right	12	1
A-4750.41	A-4750.41S	A-4750.41TP	frame, left, narrow	18	1
A-4750.42	A-4750.42S	A-4750.42TP	frame, right, narrow	18	1
A-4750.43	A-4750.43S	A-4750.43TP	frame, left	20	1
A-4750.44	A-4750.44S	A-4750.44TP	frame, right	20	1



2.5 TriLock Distal Ulna Plates



Material: Titanium (ASTM F67) Plate thickness: 1.6 mm

Art. No.	STERILE				
A-4750.91	A-4750.91S	A-4750.91TP	Υ	7 (2/5)	1
A-4750.92	A-4750.92S	A-4750.92TP	Υ	10 (2/8)	1

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Twist Drills Ø 2.0 mm



Art. No.	STERILE					Pieces / Pkg
A-3713	A-3713S	2.5	40 mm	97 mm	Dental	1
A-3723	A-3723S	2.5	40 mm	97 mm	Stryker J-Latch	1
A-3733	A-3733S	2.5	40 mm	91 mm	AO Quick Coupling	1

Twist Drills Ø 2.6 mm (for Gliding Hole)



Art. No.	STERILE					Pieces / Pkg
A-3711		2.5	10 mm	67 mm	Dental	1
A-3721		2.5	10 mm	67 mm	Stryker J-Latch	1
A-3731	A-3731S	2.5	10 mm	61 mm	AO Quick Coupling	1

Countersink for Cortical Screws



Art. No.	STERILE					Pieces / Pkg
A-3830	A-3830S	2.5	3.7 mm	45 mm	AO Quick Coupling	1

K-Wires, Stainless Steel



Art. No.	STERILE	Ø	Description	Length	Pieces / Pkg
A-5040.21		1.2 mm	trocar	150 mm	10
	A-5040.21 / 2S	1.2 mm	trocar	150 mm	2
A-5040.41		1.6 mm	trocar	150 mm	10
	A-5040.41 / 2S	1.6 mm	trocar	150 mm	2

K-Wires, Stainless Steel



Art. No.	STERILE				Pieces / Pkg
A-5042.21		1.2 mm	lancet	150 mm	10
	A-5042.21 / 2S	1.2 mm	lancet	150 mm	2
A-5042.41		1.6 mm	lancet	150 mm	10
	A-5042.41 / 2S	1.6 mm	lancet	150 mm	2

Olive K-Wire, Stainless Steel



Length			Art. No.		STERILE	Pieces / Pkg
60 mm	10 mm	1.6 mm	A-5045.41/1	1	A-5045.41/2S	2

Drill Guides



A-2722





A-2026

Art. No.	System Size	Description	Length	Pieces / Pkg
A-2026	2.5 / 2.8	TriLockPLUS	146 mm	1
A-2721	2.5	for lag screw technique	144 mm	1
A-2722	2.5	scaled	114 mm	1

A-2721

Drill Sleeve



Art. No.				Pieces / Pkg
A-2726	2.5	self-holding, scaled	34 mm	1

Depth Gauge



A-2730

Art. No.	System Size	Description	Length	Pieces / Pkg
A-2730	2.5		151 mm	1

Screwdrivers, Self-Holding





Art. No.	System Size	Interface	Length	Pieces / Pkg
A-2310	1.2 / 1.5	HD4	138 mm	1
A-2710	2.5	HD7	166 mm	1

Handle with Quick Connector



Art. No.				Pieces / Pkg
A-2073	with twist cap	125 mm	AO Quick Coupling	1

Screwdriver Blade, Self-Holding



Art. No.	System Size	Description		Shaft End	Pieces / Pkg
A-2013	2.5 / 2.8	HD7	75 mm	AO Quick Coupling	1

Plate and Screw Holding Forceps



Art. No.			Pieces / Pkg
A-2060	angled	148 mm	1

Plate Holding and Positioning Instrument



Art. No.			Pieces / Pkg
A-2750	2.5	177 mm	1

Instrument for Restoration of the Volar Tilt



A-2794

A-2795

Art. No.				Pieces / Pkg
A-2794	2.5		105 mm	1
A-2795	2.0	guide wire	105 mm	1

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Plate Cutting Pliers



Art. No.			Pieces / Pkg
A-2046	1.2 - 2.8	207 mm	1

Plate Bending Pliers



Art. No.				Pieces / Pkg
A-2047	2.0 - 2.8	with pins	158 mm	1

Bone Holding Forceps



Art. No.		Pieces / Pkg
A-7012	140 mm	1

Bone Elevator Mini-Hohmann



Art. No.			Pieces / Pkg
A-7006	8 mm	160 mm	1

Periosteal Elevator



Art. No.			Pieces / Pkg
A-7007	6 mm	185 mm	1

Hook



Art. No.			Pieces / Pkg
A-7009	«Tönnis»	150 mm	1

Wound Retractor Mini-Langenbeck



Art. No.			
A-7013	20 x 6 mm	156 mm	1

Cases, Trays



A-6602.012 (excl. implants and instruments)



A-6602.086 (excl. implants and instruments)



A-6602.091 (excl. implants and instruments)



A-6602.018 (excl. implants)



A-6602.016 (excl. implants)



A-6602.065 containing A-6602.063 (excl. implants, instruments and tray)

Art. No.	Description	Dimension (W x L)	Pieces / Pkg
A-6602.012	implant case APTUS radius plates	120 x 240 mm	1
A-6602.016	implant case APTUS radius plates	120 x 240 mm	1
A-6602.018	implant case APTUS radius plates	120 x 240 mm	1
A-6602.063	instrument tray for APTUS radius	120 x 240 mm	1
A-6602.065	case APTUS radius 120 x 240 mm	120 x 240 mm	1
A-6602.086	implant case APTUS radius plates	120 x 240 mm	1
A-6602.091	implant case APTUS radius plates	120 x 240 mm	1
M-6706	lid for implant and instrument case 120 × 240 mm	120 x 240 mm	1

Additional configurations available on request.



A-6602.033 (excl. implants)

Art. No.			Pieces / Pkg
A-6602.033	implant case APTUS radius screws	120 x 240 mm	1
M-6706	lid for implant and instrument case 120 × 240 mm	120 x 240 mm	1

Additional configurations available on request.



A-6602.008 with A-6602.002 (excl. implants)

Art. No.			Pieces / Pkg
A-6602.002	instrument tray for APTUS radius, upper	230 x 230 mm	1
A-6602.008	instrument case APTUS radius	240 x 240 mm	1
M-6707	lid for implant and instrument case 240 × 240 mm	240 x 240 mm	1

Additional configurations available on request.

Storage and Transportation



A-6610.10 with A-6602.001 and A-6602.002 (excl. containers)

Art. No.	Description	Dimension (L \times W \times H)	Pieces / Pkg
A-6602.001	instrument tray for APTUS radius, lower	230 x 230 mm	1
A-6602.002	instrument tray for APTUS radius, upper	230 x 230 mm	
A-6610.10*	storage container for APTUS distal radius system	265 × 257 × 177 mm	1
A-6611*	lid for A-6610.xx	265 × 257 × 177 mm	1
M-6710	holding rack for implant and instrument cases, for case 240 \times 240 mm	252 × 243 × 143 mm	1
M-6720	holding rack for implant and instrument cases, for case 240 \times 240 mm	252 × 243 × 245 mm	1

^{*} Not available in all countries

Additional storage options available on request.

K-Wire Dispensers



Art. No.	System Size	Length	Pieces / Pkg
A-6010.12	1.2	185 mm	1
A-6010.16	1.6	185 mm	1

Articles available on request

A-0714	A-4750.70/1S	A-5045.45/2S	A-6602.053
A-0715	A-4750.07	A-5045.46/1	A-6602.054
A-0716	A-4750.08	A-5045.46/2S	A-6602.055
A-0717	A-4750.09	A-5045.47/1	A-6602.056
A-0718	A-4750.10	A-5045.47/2S	A-6602.057
A-0722	A-4750.21	A-6602.005	A-6602.058
A-0724	A-4750.22	A-6602.006	A-6602.059
A-0725	A-4750.23	A-6602.007	A-6602.060
A-0726	A-4750.24	A-6602.009	A-6602.061
A-0732	A-4750.50	A-6602.011	A-6602.062
A-0734	A-4750.51	A-6602.012	A-6602.064
A-0736	A-4750.52	A-6602.013	A-6602.071
A-0760	A-4750.53	A-6602.014	A-6602.087
A-0761	A-4750.54	A-6602.015	A-6602.088
A-0762	A-4750.55	A-6602.017	A-6602.089
A-0763	A-4750.56	A-6602.019	A-6602.090
A-0764	A-4750.65S	A-6602.020	A-6602.092
A-0765	A-4750.65TP	A-6602.021	A-6602.093
A-0766	A-4750.66S	A-6602.022	A-6602.094
A-0768	A-4750.66TP	A-6602.023	A-6610.11
A-0772	A-5040.21/1	A-6602.024	A-7001
A-0775	A-5040.41/1	A-6602.025	A-7002
A-0776	A-5042.21/1	A-6602.026	A-7003
A-0778	A-5042.41/1	A-6602.027	A-7005
A-0779	A-5042.51	A-6602.028	A-7010
A-0780	A-5042.51/1	A-6602.029	A-7011
A-0781	A-5042.51/2S	A-6602.030	S-4750.65
A-2050	A-5042.51/4S	A-6602.031	S-4750.66
A-2070	A-5045.42/1	A-6602.032	S-02071.3.84
A-2311	A-5045.42/2S	A-6602.034	S-02071.3.85
A-4700.70	A-5045.43/1	A-6602.035	S-02071.19
A-4700.70/1	A-5045.43/2S	A-6602.036	S-3724
A-4700.70/1S	A-5045.44/1	A-6602.050	S-3733
A-4750.70	A-5045.44/2S	A-6602.051	
A-4750.70/1	A-5045.45/1	A-6602.052	

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