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PRECISION IN FIXATION

SURGICAL TECHNIQUE

Foot System 2.0 – 3.5



APTUS Foot

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For further information regarding the APTUS product line visit www.medartis.com

Introduction

Product Materials

Product	Material
Plates	Pure titanium, titanium alloy
Washers	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 Foot

Fractures, osteotomies and arthrodesis of the bones of the foot

- Fore- and Midfoot System
 - fractures, osteotomies, and arthrodeses of the tarsals, metatarsals, and phalangeal bones
- Hallux System
 - osteotomies and arthrodeses of the tarsals, metatarsals, and phalangeal bones
- Mid- and Hindfoot System
 - osteotomies and arthrodeses of the tarsals and metatarsals
- Calcaneus System
 - fractures and osteotomies of the calcaneus

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
2.0	Blue
2.3	Brown
2.8	Orange
3.5	Green

Plates and Screws

Special implant plates and screws have their own color:

Implant plates blue	TriLock plates (locking)
Implant screws gold	Cortical screws (fixation)
Implant screws blue	TriLock screws (locking)
Implant screws silver	TriLock Express screws (locking) and transfixation screws
Implant screws green	SpeedTip screws (self-drilling)

Possible Combination of Plates and Screws

Plates and screws can be combined within one system size:

2.0/2.3 TriLock Plates

- 2.0 TriLock Screws, HexaDrive 6
- 2.3 Cortical Screws, HexaDrive 6

2.8 TriLock Plates

- 2.8 TriLock Screws, HexaDrive 7
- 2.8 Cortical Screws, HexaDrive 7


2.8 TriLock TMT-1 Fusion Plates


- 2.8 TriLock Screws, HexaDrive 7
- 2.8 Cortical Screws, HexaDrive 7
- 4.0 Transfixation Screw, HexaDrive 7


3.5 TriLock Plates

- 3.5 TriLock Screws, HexaDrive 15
- 3.5 Cortical Screws, HexaDrive 15

Symbols

 HexaDrive














 TriLock screw hole on sizing template




















 TriLock^{PLUS} screw hole on sizing template




























System Overview

The APTUS Foot System 2.0–3.5

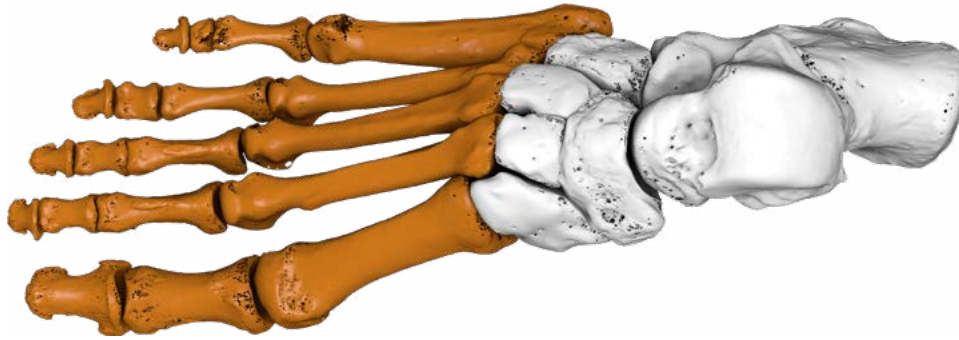
System	System Size		Plate Thickness
Fore- and Midfoot System 2.0/2.3, 2.8	2.0/2.3	TriLock Plates	1.3 mm
		<div> A-4655.01 Straight, 4 Holes</div> <div> A-4655.03 Straight, 6 Holes</div> <div> A-4655.08 Straight, 8 Holes</div> <div> A-4655.12 T, 7 Holes</div> <div> A-4655.13 T, 9 Holes</div>	
		TriLock Grid Plates	
		<div> A-4655.67 Grid, 6 Holes</div> <div> A-4655.68 Grid, 6 Holes</div> <div> A-4655.69 Grid, 6 Holes</div>	
	2.8	TriLock Plates	1.6 mm
		<div> A-4850.01 Straight, 4 Holes</div> <div> A-4850.03 Straight, 6 Holes</div> <div> A-4850.08 Straight, 8 Holes</div> <div> A-4850.12 T, 7 Holes</div> <div> A-4850.13 T, 9 Holes</div>	

System	System Size						Plate Thickness
Fore- and Midfoot System 2.0/2.3, 2.8	2.8	TriLock Plates					1.6 mm
							
		A-4850.41 Straight, 7 Holes	A-4850.42 Straight, 9 Holes	A-4850.43 Straight, 11 Holes	A-4850.44 Straight, 13 Holes	A-4850.45 Straight, 15 Holes	
							
		A-4850.14 T Extended, 9 Holes	A-4850.15 T Extended, 11 Holes	A-4850.16 T Extended, 13 Holes	A-4850.17 T Extended, 15 Holes	A-4850.18 T Extended, 17 Holes	
		TriLock Plates					
		TriLock Grid Plates					
							
		A-4850.21 L, left, 9 Holes	A-4850.22 L, right, 9 Holes	A-4850.64 Grid, 7 Holes	A-4850.65 Grid, 7 Holes	A-4850.66 Grid, 8 Holes	
		TriLock Wing Plates					
TriLock C Plates							
							
A-4850.71 Wing, small, 11 Holes	A-4850.70 Wing, large, 12 Holes	A-4850.73 Small	A-4850.72 Large				

System	System Size							Plate Thickness
Hallux System 2.8	2.8	TriLock MTP Fusion Plates						1.6 mm
								
		A-4860.10 0° dorsiflexion, right	A-4860.11 0° dorsiflexion, left	A-4860.12 5° dorsiflexion, right	A-4860.13 5° dorsiflexion, left	A-4860.14 10° dorsiflexion, right	A-4860.15 10° dorsiflexion, left	
		TriLock MTP Revision Plates						2.0 mm
								
		A-4860.16 5° dorsiflexion, right	A-4860.17 5° dorsiflexion, left	A-4860.18 10° dorsiflexion, right	A-4860.19 10° dorsiflexion, left			
TriLock TMT-1 Fusion Plates						1.6 mm		
								
A-4860.30 medial, right	A-4860.31 medial, left	A-4860.36 plantar, right	A-4860.37 plantar, left					
TriLock TMT-1 Fusion Plates						2.0 mm		
								
A-4860.32S medial, large, right	A-4860.33S medial, large, left							
SpeedTip C 2.0, 2.8 System	2.0	C Screws		C-Snap Screws				
								
	A-5411.xx 10–13 mm	A-5417.xx 10–13 mm						
	2.8	C Screws						
								
A-5811.xx 16–24 mm								
Calcaneus System 3.5	3.5	TriLock Calcaneus Plates						2.0 mm
								
		A-4950.71 left, small	A-4950.72 right, small	A-4950.73 left, medium	A-4950.74 right, medium	A-4950.75 left, large	A-4950.76 right, large	

Treatment Concept

The table below lists typical clinical findings which can be treated with the implants of the APTUS Foot System 2.0–3.5.



Forefoot	SpeedTip C 2.0 A-5417.xx and A-5411.xx	SpeedTip C 2.8 A-5811.xx	Straight Plate 2.0/2.3 A-4655.01/03/08	T Plate 2.0/2.3 A-4655.12/13	Grid Plate 2.0/2.3 A-4655.67–69	Straight Plate 2.8 A-4850.01/03/08/41–45	T/T Extended Plate 2.8 A-4850.12–18	Grid Plate 2.8 A-4850.67–69	L Plate 2.8 A-4850.21/22	MTP Fusion Plate 2.8 A-4860.10–15	MTP Revision Plate 2.8 A-4860.16–19
Fractures Phalanges 1-5											
Fracture MT1											
Fracture MT2–5											
Osteotomy MT1											
MTP Fusion											
MTP Revision with Bone Graft											
Closing Wedge Osteotomy											
Medial Closing Wedge Osteotomy (Akin)											
Metatarsal Shortening (Weil) Osteotomy											
Opening Wedge Osteotomy											
Proximal 5th Metatarsal Fracture (Jones Fracture)											

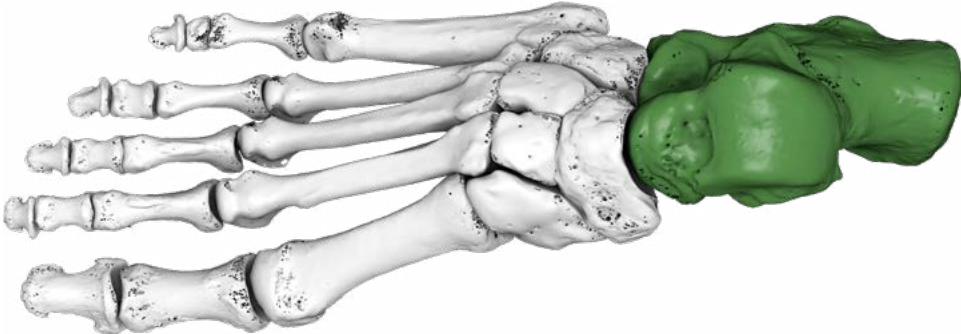
The above-mentioned information is a recommendation only. The operating surgeon is solely responsible for selecting the appropriate implant for the specific case.



Midfoot

	Straight Plate 2.0/2.3 A-4655.01/03/08	T Plate 2.0/2.3 A-4655.12/13	Grid Plate 2.0/2.3 A-4655.67-69	Straight Plate 2.8 A-4850.01/03/08/41-45	T/T Extended Plate 2.8 A-4850.12-18	Grid Plate 2.8 A-4850.67-69	L Plate 2.8 A-4850.21/22	C Plate 2.8 A-4850.72-73	Wing Plate 2.8 A-4850.70/71	TMT-1 Medial Fusion Plate 2.8 A-4860.30/31/32S/33S	TMT-1 Plantar Fusion Plate 2.8 A-4860.36/37
Cuboid Fracture											
Calcaneo-Cuboid Arthrodesis											
First Tarsometatarsal Joint Arthrodesis (Lapidus)											
Lisfranc											
Navicular Fracture											
Medial Cuneiform Dorsal Opening Wedge (Cotton) Osteotomy											

The above-mentioned information is a recommendation only. The operating surgeon is solely responsible for selecting the appropriate implant for the specific case.



Hindfoot		Straight Plate 2.8 A-4850.01/03/08/41–45	T/T Extended Plate 2.8 A-4850.12–18	Grid Plate 2.8 A-4850.67–69	L Plate 2.8 A-4850.21/22	Wing Plate 2.8 A-4850.70/71	Calcaneus Plate 3.5 A-4950.71–76
Calcaneal Fracture							
Talus Fracture							

The above-mentioned information is a recommendation only. The operating surgeon is solely responsible for selecting the appropriate implant for the specific case.

Instrument Application

General Instrument Application

Sizing Templates

Sizing templates facilitate the intraoperative selection of the appropriate implant.

Sizing templates for the Foot System 2.0–3.5 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:



for a TriLock screw hole (locking) using a TriLock or cortical screw



for a TriLock^{PLUS} screw hole (locking/compression) using a TriLock or cortical screw



Sizing template with TriLock and TriLock^{PLUS} screw hole symbols

The article number of the sizing template (e.g. A-4860.11TP) corresponds to the article number of the sterile implant (e.g. A-4860.11S). The suffix TP stands for template.



A-4860.11TP
Template for A-4860.11S

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 Pick-Up

The plates can be manually removed from the implant container or with the help of the plate holding forceps (A-2050). These forceps have a crossed end and will open when pressure is applied. The plates are kept force-free in the holding channel of the forceps tip.



A-2050
2.0–3.5 Plate Holding Forceps



Bending

If required, the plates can be bent with the plate bending pliers. Depending on the associated system size of the plate, there are two different plate bending pliers.

Type 1 for 2.0–2.8 TriLock plates
Plate bending pliers with pins (A-2047)



A-2047
2.0–2.8 Plate Bending Pliers, with Pins

Type 2 for 3.5 TriLock plates
Plate bending pliers (A-2940)



A-2940
3.5/4.0 Plate Bending Pliers

Warning

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

The plate bending pliers are always used in pairs.

Plate bending pliers for 2.0–2.8 TriLock plates

The labeled side of the plate must always face upwards when inserting the plate into the bending pliers (A-2047).



When bending flat plates (wing 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.



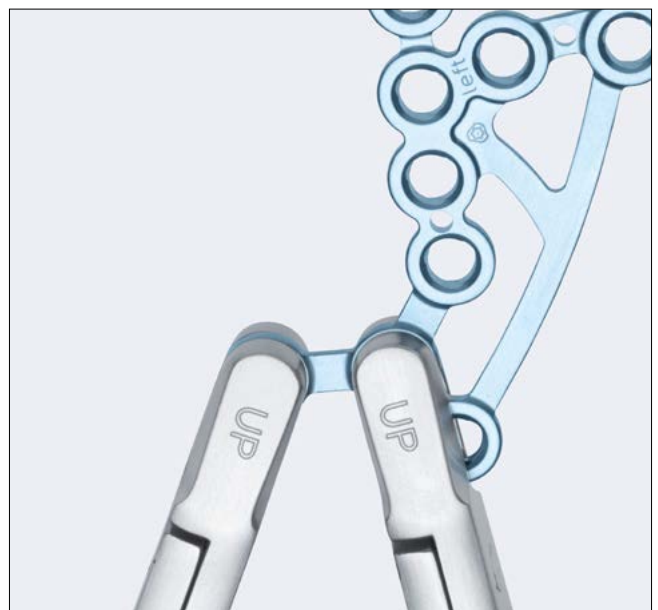
When bending a curved plate, the plate bending pliers must be held so that the letters “C – CURVED PLATE THIS SIDE UP” are legible from above. This ensures that the plate holes are not damaged.



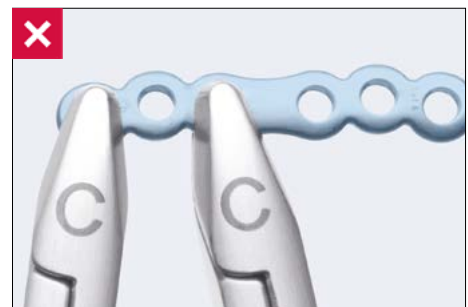
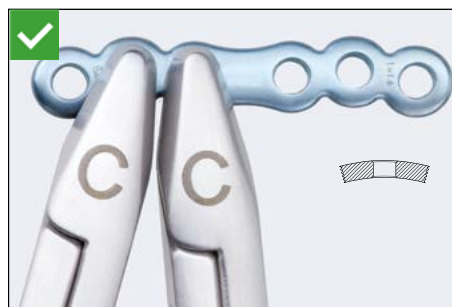
Plate bending pliers for 3.5 TriLock plates

The labeled side of the plate must always face upward when inserting the plate into the bending pliers (A-2940).

When bending 3.5 TriLock plates, the plate bending pliers must be held so that the letters “UP” are 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.



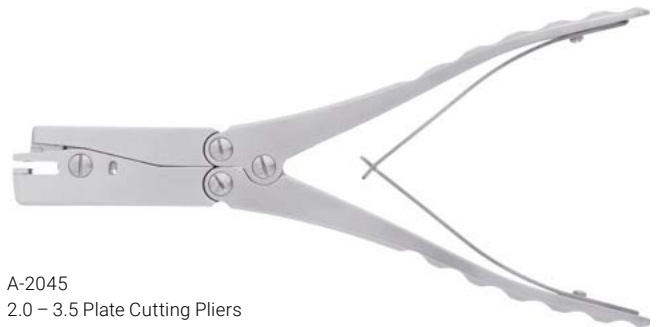
Warning

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-2045) can be used to cut all plates (except 2.0/2.3 and 2.8 TriLock Grid plates and TriLock TMT-1 fusion plates) as well as K-wires up to a diameter of 2.0 mm.



A-2045
2.0 – 3.5 Plate Cutting Pliers

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.

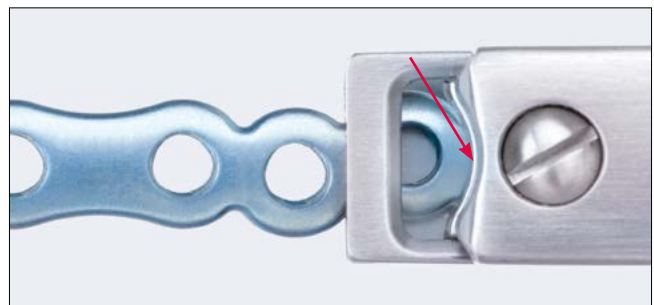
Recommendation

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.



Warning

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

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

2.0	Blue
2.3	Brown
2.8	Orange
3.5	Green

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

Screw Size	Screw Type	Color Code on Instrument	Twist Drill Type	Drill Guide
2.0	TriLock	blue core hole (one colored ring)	Twist Drill Ø 1.6 mm A-3414, A-3424, A-3434 	2.0/2.3 Drill Guide A-2620 
		blue gliding hole (two colored rings)	Twist Drill Ø 1.9 mm A-3510, A-3512, A-3520, A-3530 	2.0/2.3, 2.8 Drill Guide A-2021 
2.3	Cortical	brown core hole (one colored ring)	Twist Drill Ø 1.9 mm A-3510, A-3512, A-3520, A-3530 	2.0/2.3 Drill Guide A-2620 
		brown gliding hole (two colored rings)	Twist Drill Ø 2.35 mm A-3513, A-3521, A-3531 	2.0/2.3, 2.8 Drill Guide for Lag Screws A-2022 
2.8	Cortical + TriLock	orange core hole (one colored ring)	Twist Drill Ø 2.35 mm A-3832 	2.8 Drill Guide A-2820 
		orange gliding hole (two colored rings)	Twist Drill Ø 2.9 mm A-3834 	2.5/2.8 Drill Guide TriLock ^{PLUS} A-2026 
		orange core hole (one colored ring)	Twist Drill Ø 2.35 mm A-3832 	2.0/2.3, 2.8 Drill Guide A-2021 
		orange gliding hole (two colored rings)	Twist Drill Ø 2.9 mm A-3834 	2.8 Drill Guide A-2820 
3.5	Cortical + TriLock	green core hole (one colored ring)	Twist Drill Ø 3.0 mm A-3931 	3.5 Drill Guide A-2920 
		green gliding hole (two colored rings)	Twist Drill Ø 3.6 mm A-3933 	

The self-holding drill sleeve (A-2826, A-2921) can be locked with a clockwise turn in the TriLock holes of the plate (no more than $\pm 15^\circ$). It thus performs all of the functions of a drill guide without the need to be held.

Warning

The twist drill must always be guided by the drill guide (A-2021, A-2022, A-2026, A-2820, A-2920) or the self-holding drill sleeve (A-2826, A-2921). 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.

The double-ended drill guide (A-2022) can be used for all screw holes and for the insertion of independent screws (e.g. fragment fixation with screws alone).

After positioning the plate, insert the drill guide and the twist drill into the screw hole.

Warning

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



A-2826
2.5/2.8 Drill Sleeve, Self-Holding



A-2921
3.5 Drill Sleeve, Self-Holding



Assigning the Screw Length

The depth gauges (A-2031, A-2837, A-2930) are used to assign the ideal screw length for use in monocortical or bicortical screw fixation.

System	Corresponding Depth Gauge
Fore- and Midfoot System 2.0/2.3, 2.8	A-2031
Hallux System 2.8	A-2837
Calcaneus System 3.5	A-2930



A-2031
2.0 – 2.8 Depth Gauge



A-2837
2.8 Depth Gauge



A-2930
3.5/4.0 Depth Gauge

Warning

It is important to use the correct depth gauge for the corresponding screw diameter, which is indicated on the slider and handle of the depth gauge.

Retract the slider of the depth gauge.

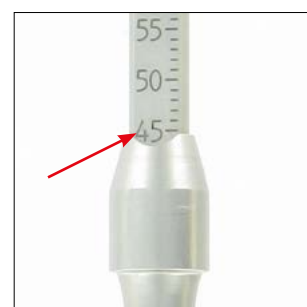
The depth gauge caliper has a hooked tip that is either inserted to the bottom of the hole or is used to catch the far cortex of the bone. When using the depth gauge, the caliper stays static, only the slider is adjusted.



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-2610 and A-2810) and the screwdriver blades (A-2611, A-2013 and A-2911) feature the HexaDrive self-holding system.



A-2610
2.0/2.3 Screwdriver, HD6, Self-Holding



A-2810
2.8 Screwdriver, HD7, Self-Holding



A-2611
2.0/2.3 Screwdriver Blade, HD6, AO



A-2013
2.5/2.8 Screwdriver Blade, HD7, AO



A-2073
Handle with Quick Connector, AO



A-2911
3.5/4.0 Screwdriver Blade, HD15, AO



A-2074
Handle with Quick Connector, AO

Warning

Do not use the 2.0/2.3 screwdriver blade (A-2611) and the 2.5/2.8 screwdriver blade (A-2013) with the large handle (A-2074), as the high forces generated can damage the locking of the screw head in the plate hole.

To remove the screws from the implant container, insert the appropriately color-coded screwdriver blade 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.

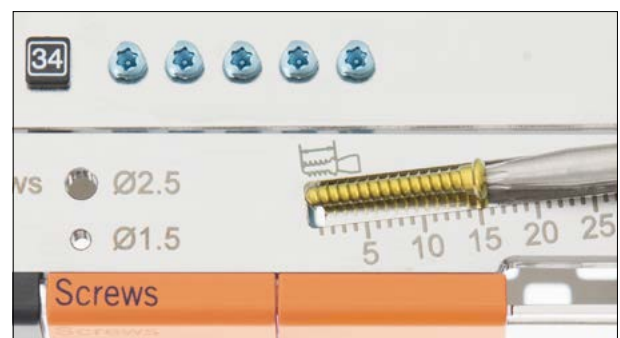
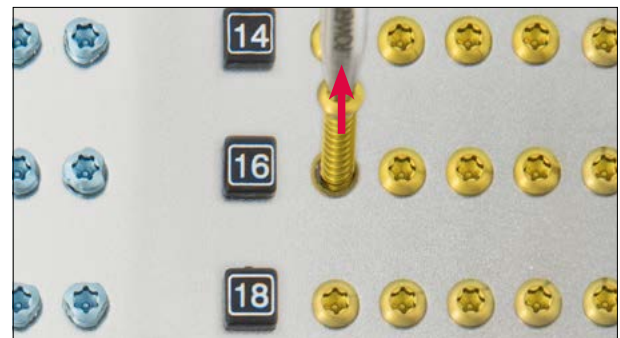
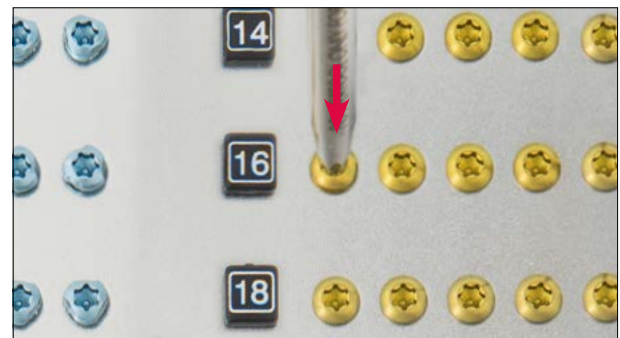
Caution

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.

SpeedTip C-Snap screws feature a snap-off pin for connecting to a 1.8 mm K-wire driver as well as the HexaDrive self-holding technology. The HexaDrive self-holding technology is only accessible after the pin has snapped off (see chapter Specific Instrument Application – SpeedTip C-Snap Screws).

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.



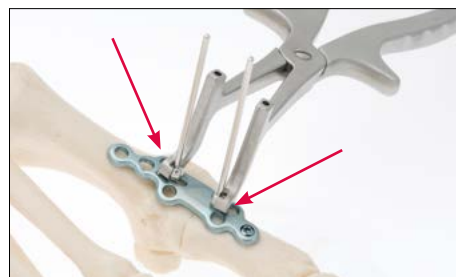
Specific Instrument Application

Compression and Distraction Forceps with 1.6 mm Olive K-Wires

APTUS Hallux MTP plates, MTP revision plates and TMT medial plates feature a K-wire hole and a K-wire slot for compression with 1.6 mm olive K-wires or standard 1.6 mm K-wires.

1. Using the compression and distraction forceps

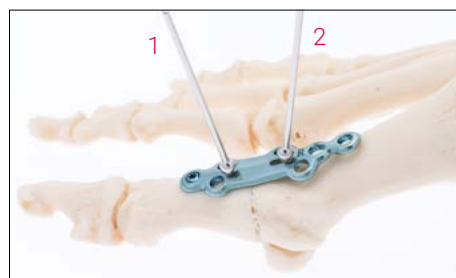
When using olive K-wires (A-5045.xx), always have the curved ends of the instrument (A-2049) pointing towards the plate.



2. Inserting the olive K-wires

Align the plate and fix it on one side with a TriLock screw. Choose two olive K-wires with adequate length for bicortical fixation.

Insert the first olive K-wire through the K-wire hole until the olive gets in contact with the plate surface.



Warning

Do not overtighten the olive K-wire as this would lead to stripping of the thread inside of the bone.

Insert the second olive K-wire through the far end of the K-wire slot until the olive is in contact with the plate.

3. Applying compression

Place the curved end with the cupped mouth pieces of the compression and distraction forceps over the olives and apply a gentle compression. Slide the knurled nut into the slot of the handle. Turn the nut clockwise to gradually apply additional compression and to sustain the interfragmentary compression.



Warning

Overcompression or overdistraction could damage the bone and/or the K-wires. If the forceps are placed too high away from the bone, the K-wires may possibly bend.



Compression and Distraction Forceps with 1.6 mm Standard K-Wires

The compression and distraction forceps (A-2049) can also be used for compression or distraction in combination with standard 1.6 mm K-wires (A-5042.41 or A-5040.41) through the holes in its jaws.

Caution

Distraction can only be performed with standard 1.6 mm K-wires. The olive K-wires are not suitable for distraction.

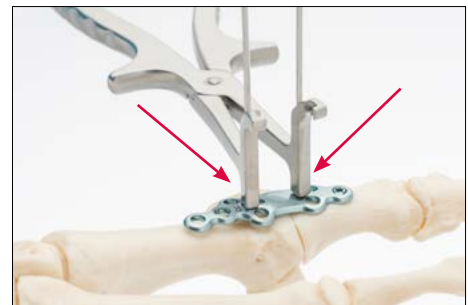
1. Using the compression and distraction forceps

Always use the compression and distraction forceps (A-2049) with the flat or straight ends towards the bone or plate. The curved ends have to point up.

2. Inserting the K-wires

Place a K-wire (A-5042.41 or A-5040.41) through the K-wire hole more or less perpendicularly to the bone surface. Slide the forceps over the wire and insert the second K-wire through the K-wire slot. The instrument should be in direct contact with the bone or the plate surface.

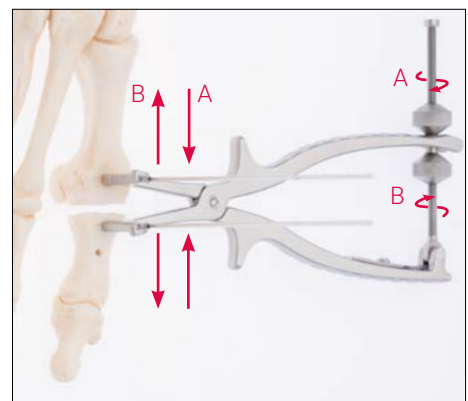
Alternatively: Insert both K-wires through the compression and distraction forceps using the K-wire hole and the K-wire slot as K-wire guide.



3. Applying compression or distraction

For compression (A), close the forceps until the bone fragments get into contact with each other. Slide the knurled nut into the slot of the handle and turn the nut clockwise to apply the desired compression.

For distraction (B), pull the handles apart. Slide the knurled nut into the slot of the handle and turn the nut counterclockwise until the desired distraction is reached.



Warning

Overcompression or overdistracted could damage the bone and/or the K-wires. If the forceps is placed at a too high distance from the bone, the K-wires may possibly bend.

MTP Reamers

Cup and cone shaped reamers to prepare the MTP joint surface are available in five pairs.

Paired sizes are:

16 mm, 18 mm, 20 mm, 22 mm and 24 mm
cannulation for 1.6 mm K-wire



A-3030.06
Cannulated MTP Reamer, Cone 20 mm



A-3030.05
Cannulated MTP Reamer, Cup 20 mm

1. Inserting the first K-wire

Insert the 1.6 mm K-wire into the first metatarsal head. Ensure the wire is coaxial to the central canal and inserted up to the diaphysis.



2. Proximal reaming (Cone)

Select the appropriate proximal reamer. Slide the reamer over the K-wire. Always start with a larger size and work down to a smaller size until the desired reaming is reached.

After reaming, remove the K-wire from the first metatarsal.



3. Inserting the second K-wire

Insert a K-wire into the center of the proximal phalange. Ensure the K-wire is coaxial to the central canal and inserted further than the desired reaming depth.



4. Distal reaming (Cup)

Slide the appropriate distal reamer (same diameter as MTP cone shaped reamer) over the K-wire and ream until the cartilage is removed from the joint.



Caution

Do not ream too deep in order to avoid length loss. Ream, however, deep enough to remove the cartilage.

Surgical Techniques

General Surgical Techniques

Lag Screw Techniques

Two lag screw techniques can be used, depending on the implant.

Warning

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

Lag Screw Technique Using Cortical Screws

The drill guides for lag screws are used to perform the classic lag screw technique according to AO/ASIF.

System	Screw Size
Fore- and Midfoot System 2.0/2.3, 2.8	2.0/2.3, 2.8
Hallux System 2.8	2.8
Calcaneus System 3.5	3.5



A-2022



A-2820



A-2920

1. Drilling the gliding hole

The Fore- and Midfoot System has a special drill guide for drilling gliding holes (A-2022; labeled with "LAG"). With the Hallux System 2.8, use the end of the drill guide A-2820 labeled with "LAG". With the Calcaneus System 3.5, use the end of the drill guide A-2920 with two green bars (also labeled with "LAG"). Use the twist drill for gliding holes (two colored rings) of the required system size to drill perpendicular to the fracture line.

Do not drill further than the fracture line.



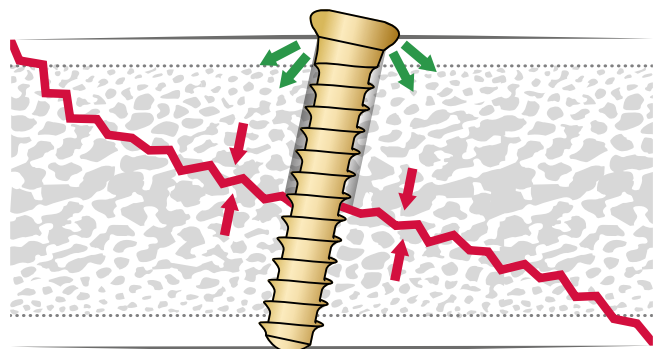
2. Drilling the core hole

After fracture reduction, insert the other end of the drill guide (A-2021, A-2820 or A-2920) onto the drilled gliding hole and use the twist drill for core holes with one colored ring (A-3510, A-3512, A-3520, A-3530, Ø 1.9 mm, A-3832, Ø 2.35 mm, A-3931, Ø 3.0 mm) to drill the core hole.



3. Compressing the fracture/osteotomy

Compress the fracture with the corresponding cortical screw.



4. Optional steps before compression

If required, use the corresponding countersink (A-3835 or A-3930) to create a recess in the bone for the screw head.

Caution

Use the handle (A-2073 or A-2074) instead of a power tool to reduce the risk of countersinking too far through the near cortex.



Warning

If the cortical bone is soft, a washer (A-4700.70/1) can be used in order to distribute the lag forces over a larger surface of the bone around the screw hole.



Lag Screw Technique Using Lag Screws

4.0 transfixation screws (A-5936.xx) can be used as independent lag screws.

1. Drilling the core hole

Use the twist drill (A-3832) to drill the core hole in combination with the drill guide (A-2820). There is no need of an additional gliding hole drilling.

2. Compressing the fracture/arthrodesis

Insert the transfixation screw of the corresponding length until reaching the desired compression in the bone gap.

3. Optional steps before compression

If required, use the countersink (A-3930) to create a recess in the bone for the screw head.



A-3930

Caution

Use the handle (A-2073 or A-2074) instead of a power tool to reduce the risk of countersinking too far through the near cortex.

TriLock^{PLUS}

TriLock^{PLUS} holes are available on all MTP fusion plates (A-4860.10–19) and the medial TMT-1 fusion plates (A-4860.30–31).

TriLock^{PLUS} 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 TriLock^{PLUS} holes and the respective end of the drill guide are both marked with an arrow indicating the direction of the compression. Before using a TriLock^{PLUS} hole, ensure that there is no fixation on the TriLock^{PLUS} 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 TriLock^{PLUS} 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.

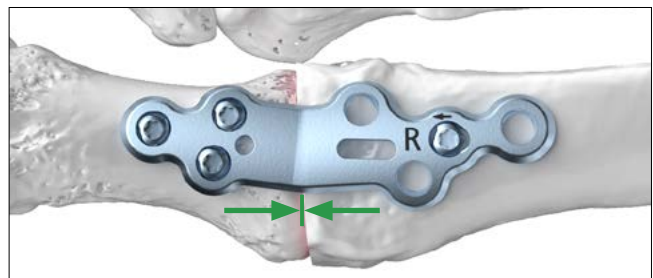
2. Drilling through the drill guide TriLock^{PLUS}

Use the twist drill for core holes (A-3832) 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 ($\pm 15^\circ$) 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-2820), see also chapter Drilling.



2.0, 2.8 SpeedTip C Screws

SpeedTip is the technology of self-drilling screws. SpeedTip C screws feature a partially threaded shaft for compression. All SpeedTip C screws are available with standard HexaDrive interface.



A-5411.xx
2.0 SpeedTip C Screw, HD6



A-5811.xx
2.8 SpeedTip C Screw, HD7

2.0 SpeedTip C-Snap Screws

SpeedTip C-Snap screws feature a snap-off pin for insertion using a K-wire driver.



A-5417.xx
2.0 SpeedTip C-Snap Screw, HD6

1. Picking up the SpeedTip C-Snap screw

After assigning the screw length, pick up the SpeedTip C-Snap screw using a K-wire driver (Ø 1.8 mm) or an appropriate three-jaw chuck.

2. Inserting the screw

Advance the SpeedTip C-Snap screw until the head is flush and the snap-off occurs.

Caution

In the case of very hard bone, the snap-off can occur even before reaching the final position (see Step 4).

3. Manual snap-off (optionally)

In patients with soft or osteoporotic bone, it might be necessary to break off the pin manually from the screw by tilting off the snap-pin.

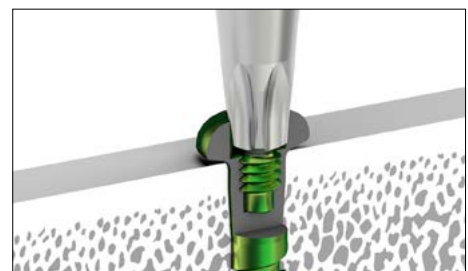
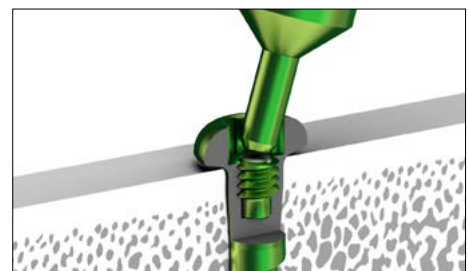
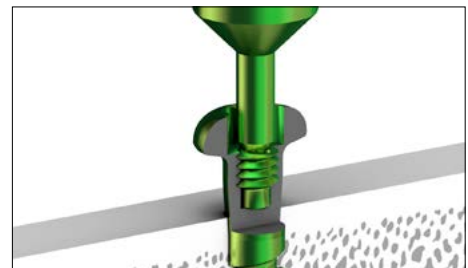
4. Final tightening (optionally)

After the pin is separated from the screw, final tightening can be done manually using the HexaDrive screwdriver HD6 (A-2610 or A-2611 with A-2073).

Use the power tool to insert SpeedTip C and SpeedTip C-Snap screws only.

Warning

The power tool may never be used for inserting TriLock screws or cortical screws.



Specific Surgical Techniques

2.8 TriLock MTP Fusion Plates (A-4860.10–15) and MTP Revision Plates (A-4860.16–19)

1. Preparing the joint

2.8 TriLock MTP fusion plates

After making the required incisions and exposing the first metatarsal head and proximal phalanx base, bend the phalanx down and expose the joint.

For the standard 2.8 TriLock MTP fusion plate, the joint can be prepared using cup and cone reamers. The cartilage can also be removed by hand or alternatively the bone can be prepared with the oscillating saw resulting in two parallel cuts.

For preparing the joint using the cup and cone shaped MTP reamers see chapter Specific Instrument Application– MTP Reamers.

2.8 TriLock MTP revision plates

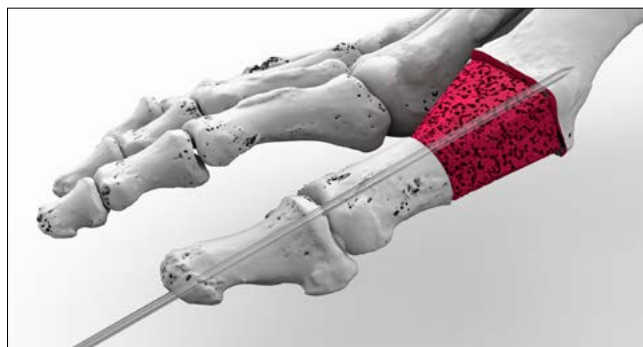
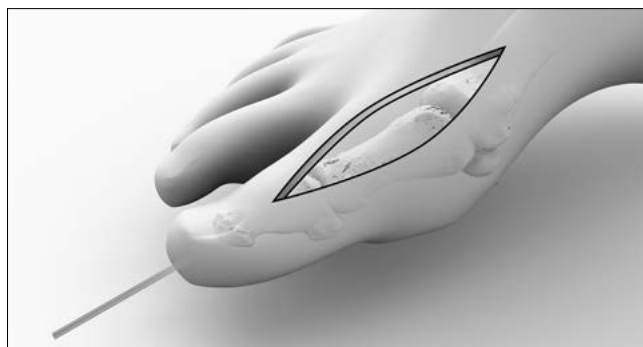
For the 2.8 TriLock MTP revision plate, prepare the revised joint and debride the cavity to healthy bone.

Insert a 1.6 mm K-wire (A-5040.41 or A-5042.41) to align the toe and establish the desired length of the toe after the arthrodesis. Varus/valgus and flexion positions can also be estimated.

Determine the size of the bone graft to be placed in the cavity and sculpt the graft to the desired shape. Be sure to account for the concavity of the excised bone in the metatarsal and phalanx.

Remove the K-wire and insert the bone graft into the cavity checking the varus/valgus and dorsiflexion positions.

Insert a 1.6 mm K-wire to hold the toe and the graft in its optimal position.



2. Selecting and positioning the plates

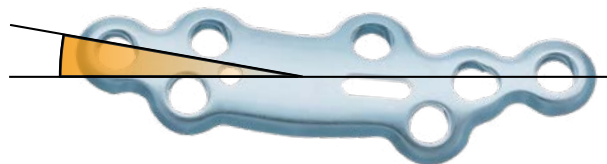
2.8 TriLock MTP fusion plates

Select the MTP fusion plate with the suitable dorsiflexion angle (0°, 5°, 10°) to allow for the desired level of correction.



Three Defined Dorsiflexion Angles

Check the position of the arthrodesis (5° valgus, 5–10° dorsiflexion, neutral rotation) with simulated weight-bearing.



10° Valgus Angle

2.8 TriLock MTP revision plates

Select the MTP revision plate with the suitable dorsiflexion angle (5° or 10°) to allow for the desired level of correction.

3. Temporary fixation of the plate

The selected MTP fusion or MTP revision plate can be temporarily fixed in the desired position using 1.6 mm K-wires (A-5040.41 or A-5042.41) or 1.6 mm olive K-wires (A-5045.41/1–47/1).



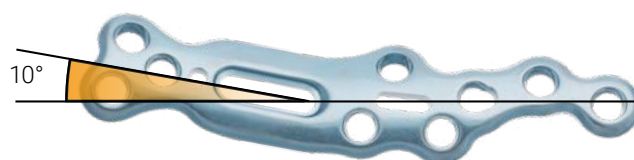
Two Defined Dorsiflexion Angles

4. Compressing the joint

Compression of the joint with compression forceps

MTP fusion and MTP revision plates feature a K-wire hole and a K-wire slot for compression with 1.6 mm olive K-wires or standard 1.6 mm K-wires.

For applying compression using the compression and distraction forceps for olive K-wires, see chapter Specific Instrument Application – Compression and Distraction Forceps with 1.6 mm Olive K-Wires.



10° Valgus Angle

Compression of the joint with TriLock^{PLUS}

TriLock^{PLUS} holes are available in the MTP fusion and MTP revision plates and allow for 1 mm compression and angular stable locking in one step.

For applying compression using the TriLock^{PLUS} hole in the MTP plate, see chapter General Surgical Techniques – TriLock^{PLUS}.

5. Fixing the plate and screw insertion

For 2.8 TriLock MTP fusion plates

Before fixing the plate, an independent "home run" screw (oblique metatarsophalangeal screw) can be inserted from proximal to distal and plantar to dorsal. It may also be inserted from distal to proximal, which, however, is technically more demanding.

For compression of the additional independent screw it is recommended to use the lag screw technique (see chapter General Surgical Techniques – Lag Screw Technique Using Cortical Screws).

Start the screw fixation of the MTP fusion with 2.8 TriLock (A-5850.xx) or cortical (A-5800.xx) screws using the 2.8 drill guide (A-2820) or 2.8 self-holding drill sleeve (A-2826) with the twist drill Ø 2.35 mm (A-3832).

Assign the screw lengths using the 2.8 depth gauge (A-2837) and insert the screws.

Notice

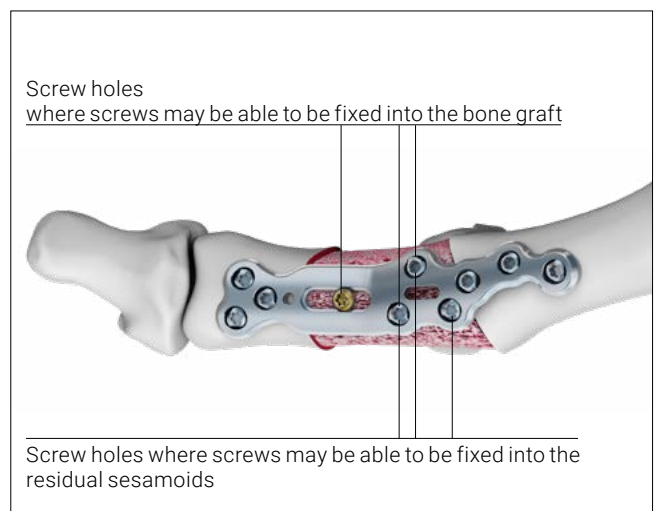
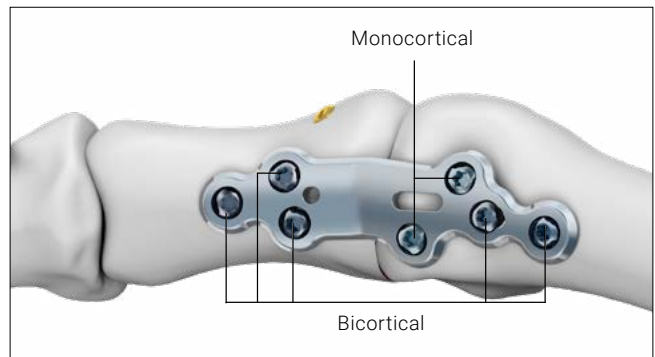
Avoid bicortical fixation of the two most distal screws in MT-1 to reduce the risk of sesamoid irritation.

For 2.8 TriLock MTP revision plates

The MTP revision plate is fixed from distal to proximal with 2.8 TriLock screws (A-5850.xx).

Insert a 2.8 cortical screw (A-5800.xx) into the bone graft via the oblong hole.

The 1.6 mm K-wire can be left in position as the 2.8 TriLock screws can be angled around the K-wire.



6. Filling the remaining screw holes

Repeat the steps above to fill the remaining screw holes and remove the temporary fixation.

Warning

Insert at least three screws into each bone fragment.

2.8 TriLock Medial TMT-1 Fusion Plates

(A-4860.30–31/32S–33S)

1. Preparing the joint

Make the required incisions and dissect down to the bone taking care not to harm the neurovascular bundle or the tibialis anterior tendon.

Remove the cartilage and prepare the joint surface for fusion by performing a subchondral parallel cut to the joint surface on the MT-1 base and a cut at the medial cuneiform, perpendicular to the longitudinal axis of MT-2.

Use this cut to achieve slight plantar flexion.

Notice

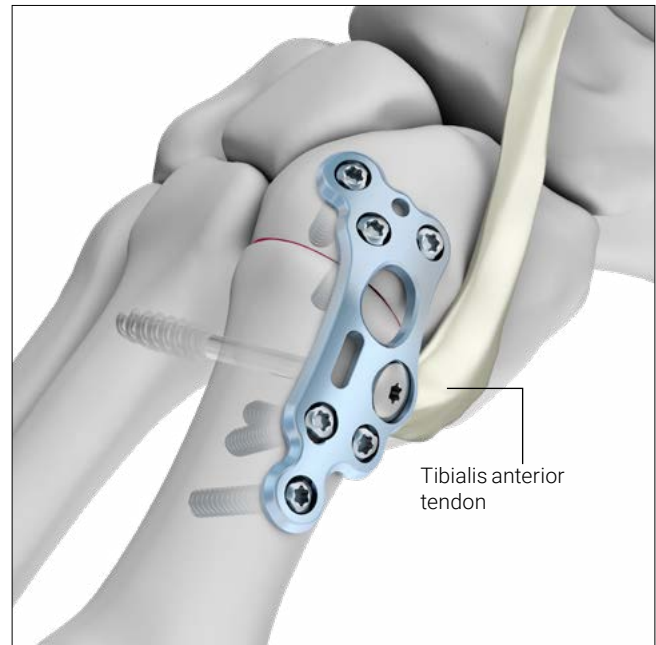
Take care to start with the cut within the cartilage in order to reduce shortening of the first ray.

Prepare the lateral cortex of MT-1 and the medial cortex of MT-2 with an osteotome to allow for intermetatarsal bony fusion. Perform a lateral release at the MTP-1 joint.

2. Selecting and positioning the plate

Before placing the plate over the joint surface temporarily fix the arthrodesis with a 1.6 mm K-wire (A-5040.41 or A-5042.41) from the MT-1 base into the medial cuneiform.

Position the medial TMT-1 fusion plate across the joint respecting the position of the tibialis anterior tendon.



Ideal plate position

3. Temporary fixation of the plate

The medial TMT-1 fusion plate can be temporarily fixed in the desired position using 1.6 mm K-wires (A-5040.41 or A-5042.41) or 1.6 mm olive K-wires (A-5045.41/1- 47/1).

4. Compressing the joint

Compression of the joint with compression forceps:

The medial TMT-1 fusion plate features a K-wire hole and a K-wire slot for compression with 1.6 mm olive K-wires or standard 1.6 mm K-wires.

For applying compression using the compression and distraction forceps for olive K-wires see chapter Specific Instrument Application – Compression and Distraction Forceps with 1.6 mm Olive K-Wires.

Compression of the joint with TriLock^{PLUS}:

A TriLock^{PLUS} hole is available in the medial TMT-1 fusion plate and allows for 1 mm compression and angular stable locking in one step.

For applying compression using the TriLock^{PLUS} hole in the medial TMT-1 plate, see chapter General Surgical Techniques – TriLock^{PLUS}.

5. Fixing the plate

Fix the plate with 2.8 TriLock or 2.8 cortical screws using the 2.8 drill guide (A-2820) or 2.8 self-holding drill sleeve (A-2826) with the twist drill Ø 2.35 mm (A-3832).

Assign the screw lengths using the 2.8 depth gauge (A-2837).

Notice

Insert at least three screws into each bone fragment.

4.0 Transfixation Screws

Classic Lapidus arthrodesis

2.8 TriLock TMT-1 medial fusion plates (A-4860.30 and A-4860.31) have a specific hole to insert an optional transfixation screw (A-5936.xx) in the second metatarsal. This fixation from the first to the second metatarsal is also referred to as the classic Lapidus arthrodesis.

Decide if a classic Lapidus arthrodesis is indicated by applying tactile pressure with your thumb and your index/middle finger in the space between the heads of MT-1 and MT-2. If a gap opens under X-ray on the fusion site, a transfixation screw into MT-2 is indicated (classic Lapidus arthrodesis).

Fill the space between MT-1 or MT-2 base with either cancellous bone chips or bone material from other sites to achieve bony fusion.

1. Drilling the hole for the transfixation screw

Predrill the hole for the transfixation screw with the twist drill (A-3832, single orange ring). Use the "LAG" end (serrated end) of the drill guide (A-2820) to center the twist drill in the transfixation hole and protect the surrounding tissue from direct contact with the drill. Drill over the entire length of MT-1 and MT-2.

Notice

Typically, an angle of 20° dorsally is needed for the ideal placement of the screw into the second metatarsal.



2. Assigning the screw length and screw insertion

Assign the screw length with the depth gauge (A-2837).

Insert transfixation screw of the determined screw length using the screwdriver blade (A-2013).



2.8 TriLock TMT-1 Plantar Fusion Plates

(A-4860.36-37)

1. Preparing the joint

Perform a medial approach on the medial boarder reaching from the cuneiform to the center of the proximal phalanx of the great toe.

To estimate the height of the incision, palpate the bones of the medial column and place the incision in the lower third or alternatively orientate dorsal to the plantar foot skin.

Perform all soft tissue releases, dissections and resections according to standard surgical technique.

Remove the cartilage and prepare the joint surface for fusion by performing a subchondral parallel cut to the joint surface on the MT-1 base and a cut at the medial cuneiform, perpendicular to the longitudinal axis of MT-2.

Use this cut to achieve slight plantar flexion.

Notice

Take care to start with the cut within the cartilage in order to reduce shortening of the first ray.

2. Fixing the arthrodesis with an independent screw

Before placing the plate over the joint surface, temporarily fix the arthrodesis in the appropriate position with a 1.6 mm K-wire (A-5040.41 or A-5042.41) from distal-dorsal to proximal-plantar.

Insert a compression screw across the arthrodesis using the placed 1.6 mm K-wire as a guide for a 5.0 SpeedTip CCS. Follow the surgical procedure for CCS as described in the Surgical Technique for Cannulated Compression Screws and Headed Cannulated Compression Screws, available at www.medartis.com.

Fully insert the screw head to avoid soft tissue irritations.

Notice

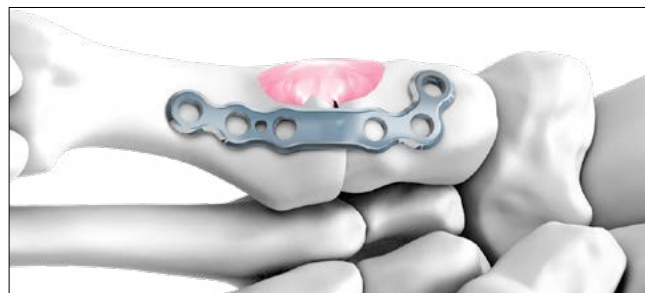
A 4.0 transfixation screw (A-5936.xx) can be used alternatively as a lag screw. Countersink the screw head to avoid soft tissue irritations.



Verify the correct position of MT-1 clinically and under fluoroscopy.

3. Selecting and positioning the plate

The plate should be positioned strictly plantar. The position of the plate is determined by the tibialis anterior tendon insertion. Place the plate lateral to it. If subtle contouring of the plate is required, use the 2.0–2.8 plate bending pliers with pins (A-2047).



The self-holding drill guide (A-2826) can be used to position the plate. Additional soft tissue preparation may be necessary to correctly position the plate.



Intraoperative image

3. Temporary fixation of the plate

The TMT-1 plantar fusion plate can be temporarily fixed in the desired position using 1.6 mm olive K-wires (A-5045.41/1–47/1) in the screw holes.

4. Fixing the plate

When fixing the plate, insert the most proximal screw first without locking to secure the position of the plate. Then insert the most distal screw, as this eases finding the position of the plate along the axis.

Fix the plate with 2.8 TriLock or 2.8 cortical screws using the 2.8 drill guide (A-2820) or 2.8 self-holding drill sleeve (A-2826) with the twist drill Ø 2.35 mm (A-3832).

Assign the screw lengths using the 2.8 depth gauge (A-2837).

As a final step, lock the most proximal screw in the plate.

Notice

Insert at least three screws into each bone.



Overview of order of insertion

3.5 TriLock Calcaneus Plates

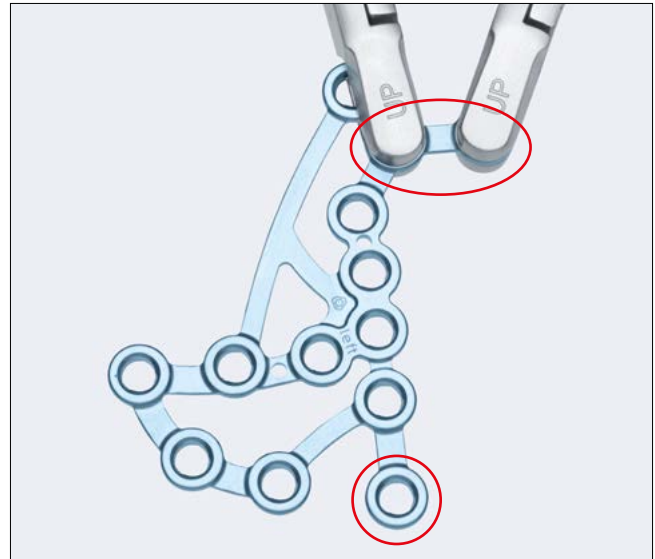
1. Selecting and positioning the plate

If fracture reduction is satisfactory, a suitable plate is selected and contoured to the calcaneus.

It is important not to bend the plate in its longitudinal axis, as the calcaneus is more or less flat.

Only the anterior or superior projections of the plate need to be bent (see chapter General Instrument Application – Bending).

If the plate needs to be cut see chapter General Instrument Application – Cutting.



2. Temporary fixation of the plate

The plate is positioned and fixed to the calcaneus using K-wires.

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

3. Fixing the plate

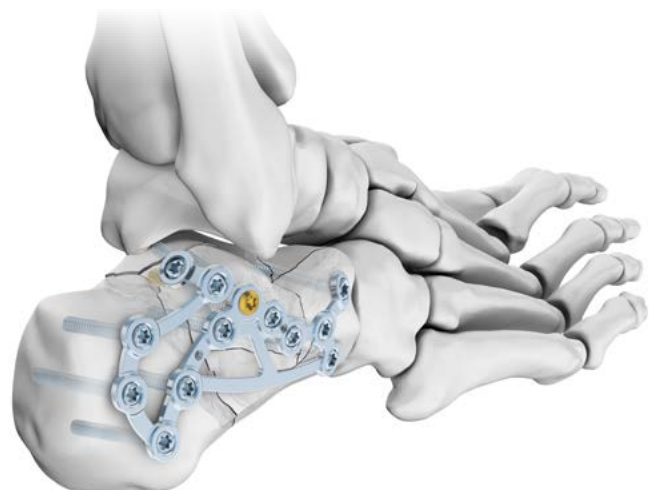
The plate is first fixed to the tuber fragment and the anterior process.

Drill the screw holes for 3.5 TriLock (A-5950.xx) or 3.5 cortical screws (A-5900.xx) using the 3.5 drill guide (A-2920) or 3.5 self-holding drill sleeve (A-2921) with the twist drill Ø 3.0 mm (A-3931).

Assign the screw lengths using the 3.5 depth gauge (A-2930).

A 3.5 cortical screw is inserted into the sustentaculum tali as a compression screw to pull the plate to the bone.

Fill the remaining screw holes.



Explantation

Explantation of Foot 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.

Caution

When removing the screws, ensure that any bone ingrowth in the screw head has been removed, that the screwdriver/screw head connection is aligned in axial direction, and that a sufficient axial force is used between blade and screw.

TriLock Locking Technology

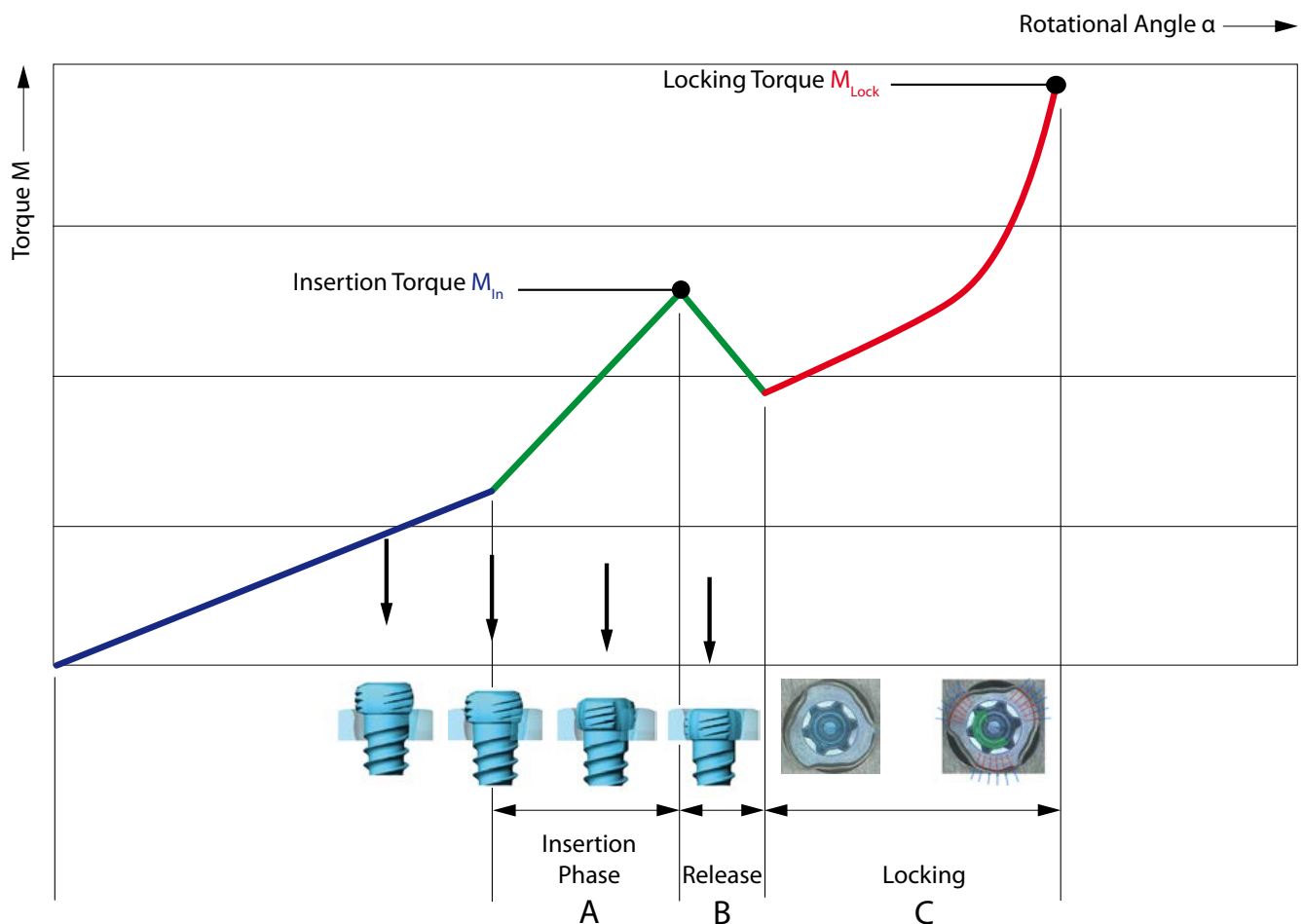
Correct Application of the TriLock Locking Technology – 2.0, 2.3, 2.8 Screws

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.



3.5 TriLock Locking Technology

Correct Application of the TriLock Locking Technology – 3.5 Screws

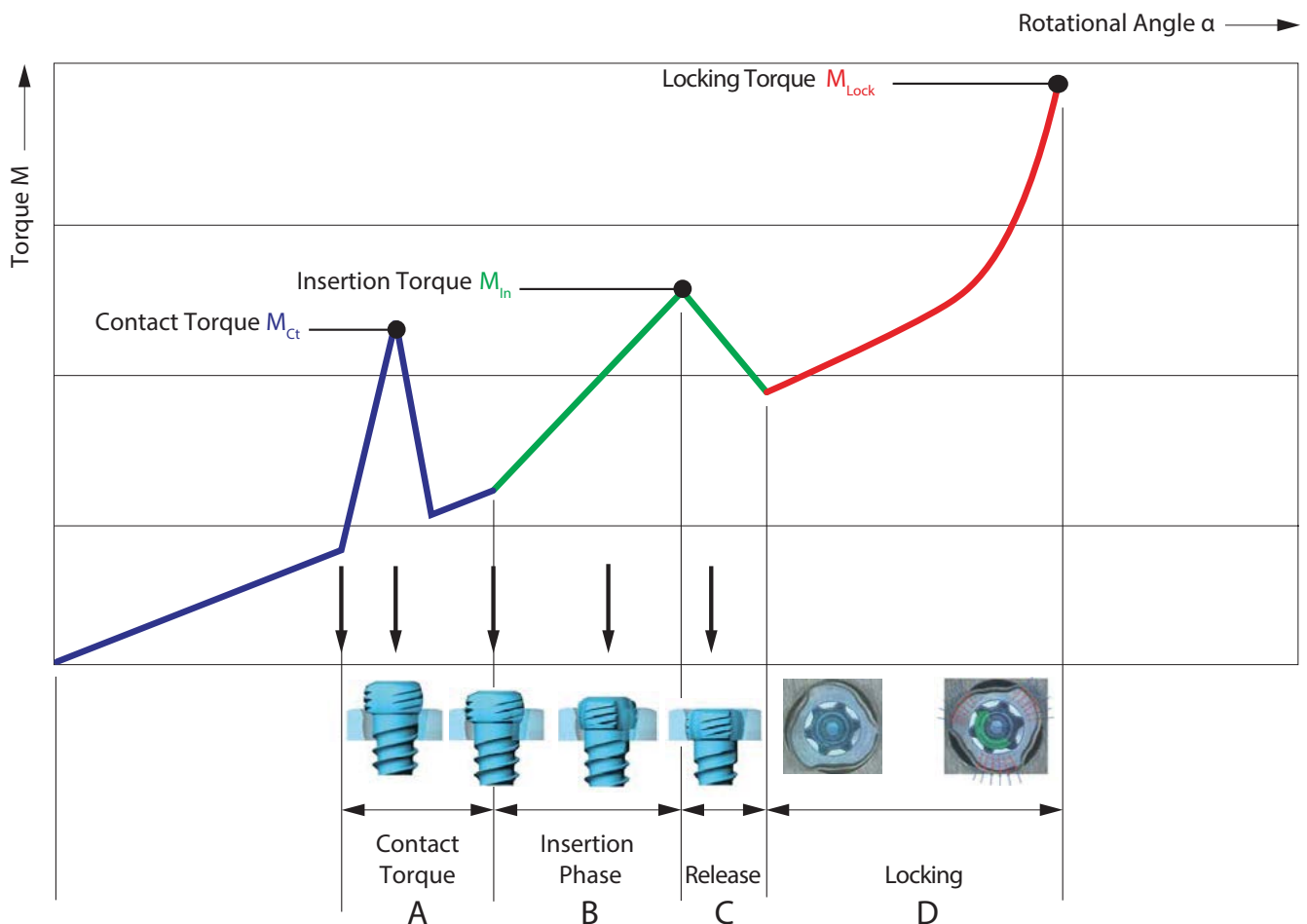
The screw is inserted through the plate hole into the pre-drilled bone. A "contact torque" will be felt once the screw head makes contact with the plate surface. This torque increase is easily perceived (section "A" in the diagram).

The torque then decreases before it starts increasing again during the "Insertion Phase", as the screw head enters the locking hole (section "B" in the diagram).

Once the screw head has entered the locking hole, a second

decrease of torque occurs (section "C" in the diagram). Finally, the actual locking is initiated (section "D" in the diagram) as a friction connection is established between screw and plate when tightening firmly. The torque applied in section "D" is decisive for the quality of the locking.

In summary, two intermediate torque maxima have to be overcome before the final locking of the screw.



Correct Locking ($\pm 15^\circ$) of the TriLock Screws in the Foot System 2.0–3.5

The example below representatively depicts the correct locking position of a 2.5 screw in a straight 1.6 mm thick plate. Correct locking occurs only when the screw head is locked flush with the locking contour (fig. 1 and 3).

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

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

Correct: LOCKED

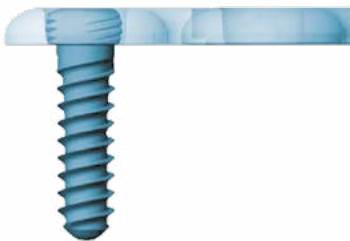


Figure 1

Incorrect: UNLOCKED

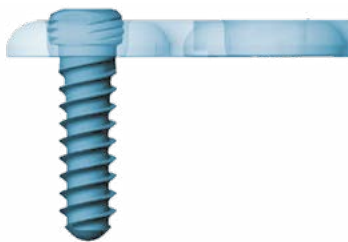


Figure 2

Correct: LOCKED

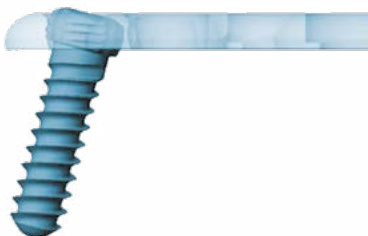


Figure 3

Incorrect: UNLOCKED



Figure 4

Implants, Instruments and Containers

2.0 SpeedTip C-Snap Screws, Self-Drilling, HexaDrive 6

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
10 mm	A-5417.10/1	A-5417.10/1S	1
11 mm	A-5417.11/1	A-5417.11/1S	1
12 mm	A-5417.12/1	A-5417.12/1S	1
13 mm	A-5417.13/1	A-5417.13/1S	1

2.0 SpeedTip C Screws, Self-Drilling, HexaDrive 6

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
10 mm	A-5411.10/1	A-5411.10/1S	1
11 mm	A-5411.11/1	A-5411.11/1S	1
12 mm	A-5411.12/1	A-5411.12/1S	1
13 mm	A-5411.13/1	A-5411.13/1S	1

2.8 SpeedTip C Screws, Self-Drilling, HexaDrive 7

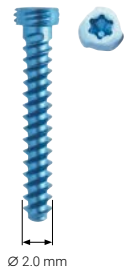
Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
16 mm	A-5811.16/1	A-5811.16/1S	1
18 mm	A-5811.18/1	A-5811.18/1S	1
20 mm	A-5811.20/1	A-5811.20/1S	1
22 mm	A-5811.22/1	A-5811.22/1S	1
24 mm	A-5811.24/1	A-5811.24/1S	1

2.0 TriLock Screws, HexaDrive 6

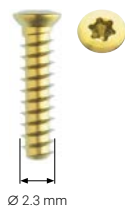
Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg	Art. No.	Pieces/Pkg
6 mm	A-5450.06/1	A-5450.06/1S	1	A-5450.06	5
7 mm	A-5450.07/1	A-5450.07/1S	1	A-5450.07	5
8 mm	A-5450.08/1	A-5450.08/1S	1	A-5450.08	5
9 mm	A-5450.09/1	A-5450.09/1S	1	A-5450.09	5
10 mm	A-5450.10/1	A-5450.10/1S	1	A-5450.10	5
11 mm	A-5450.11/1	A-5450.11/1S	1	A-5450.11	5
12 mm	A-5450.12/1	A-5450.12/1S	1	A-5450.12	5
13 mm	A-5450.13/1	A-5450.13/1S	1	A-5450.13	5
14 mm	A-5450.14/1	A-5450.14/1S	1	A-5450.14	5
16 mm	A-5450.16/1	A-5450.16/1S	1	A-5450.16	5
18 mm	A-5450.18/1	A-5450.18/1S	1	A-5450.18	5
20 mm	A-5450.20/1	A-5450.20/1S	1	A-5450.20	5
22 mm	A-5450.22/1	A-5450.22/1S	1	A-5450.22	5
24 mm	A-5450.24/1	A-5450.24/1S	1	A-5450.24	5
26 mm	A-5450.26/1	A-5450.26/1S	1	A-5450.26	5
28 mm	A-5450.28/1	A-5450.28/1S	1	A-5450.28	5
30 mm	A-5450.30/1	A-5450.30/1S	1	A-5450.30	5

2.3 Cortical Screws, HexaDrive 6

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg	Art. No.	Pieces/Pkg
6 mm	A-5500.06/1	A-5500.06/1S	1	A-5500.06	5
7 mm	A-5500.07/1	A-5500.07/1S	1	A-5500.07	5
8 mm	A-5500.08/1	A-5500.08/1S	1	A-5500.08	5
9 mm	A-5500.09/1	A-5500.09/1S	1	A-5500.09	5
10 mm	A-5500.10/1	A-5500.10/1S	1	A-5500.10	5
11 mm	A-5500.11/1	A-5500.11/1S	1	A-5500.11	5
12 mm	A-5500.12/1	A-5500.12/1S	1	A-5500.12	5
13 mm	A-5500.13/1	A-5500.13/1S	1	A-5500.13	5
14 mm	A-5500.14/1	A-5500.14/1S	1	A-5500.14	5
15 mm	A-5500.15/1	A-5500.15/1S	1	A-5500.15	5
16 mm	A-5500.16/1	A-5500.16/1S	1	A-5500.16	5
17 mm	A-5500.17/1	A-5500.17/1S	1	A-5500.17	5
18 mm	A-5500.18/1	A-5500.18/1S	1	A-5500.18	5
19 mm	A-5500.19/1	A-5500.19/1S	1	A-5500.19	5
20 mm	A-5500.20/1	A-5500.20/1S	1	A-5500.20	5
21 mm	A-5500.21/1	A-5500.21/1S	1	A-5500.21	5
22 mm	A-5500.22/1	A-5500.22/1S	1	A-5500.22	5
23 mm	A-5500.23/1	A-5500.23/1S	1	A-5500.23	5
24 mm	A-5500.24/1	A-5500.24/1S	1	A-5500.24	5
26 mm	A-5500.26/1	A-5500.26/1S	1	A-5500.26	5
28 mm	A-5500.28/1	A-5500.28/1S	1	A-5500.28	5
30 mm	A-5500.30/1	A-5500.30/1S	1	A-5500.30	5
32 mm	A-5500.32/1	A-5500.32/1S	1	A-5500.32	5
34 mm	A-5500.34/1	A-5500.34/1S	1	A-5500.34	5

2.8 Cortical Screws, HexaDrive 7

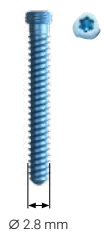
Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg	Art. No.	Pieces/Pkg
8 mm	A-5800.08/1	A-5800.08/1S	1	A-5800.08	5
10 mm	A-5800.10/1	A-5800.10/1S	1	A-5800.10	5
12 mm	A-5800.12/1	A-5800.12/1S	1	A-5800.12	5
14 mm	A-5800.14/1	A-5800.14/1S	1	A-5800.14	5
16 mm	A-5800.16/1	A-5800.16/1S	1	A-5800.16	5
18 mm	A-5800.18/1	A-5800.18/1S	1	A-5800.18	5
20 mm	A-5800.20/1	A-5800.20/1S	1	A-5800.20	5
22 mm	A-5800.22/1	A-5800.22/1S	1	A-5800.22	5
24 mm	A-5800.24/1	A-5800.24/1S	1	A-5800.24	5
26 mm	A-5800.26/1	A-5800.26/1S	1	A-5800.26	5
28 mm	A-5800.28/1	A-5800.28/1S	1	A-5800.28	5
30 mm	A-5800.30/1	A-5800.30/1S	1	A-5800.30	5
32 mm	A-5800.32/1	A-5800.32/1S	1	A-5800.32	5
34 mm	A-5800.34/1	A-5800.34/1S	1	A-5800.34	5
36 mm	A-5800.36/1	A-5800.36/1S	1	A-5800.36	5
38 mm	A-5800.38/1	A-5800.38/1S	1	A-5800.38	5
40 mm	A-5800.40/1	A-5800.40/1S	1	A-5800.40	5
45 mm	A-5800.45/1	A-5800.45/1S	1	A-5800.45	5

2.8 TriLock Screws, HexaDrive 7

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg	Art. No.	Pieces/Pkg
8 mm	A-5850.08/1	A-5850.08/1S	1	A-5850.08	5
10 mm	A-5850.10/1	A-5850.10/1S	1	A-5850.10	5
12 mm	A-5850.12/1	A-5850.12/1S	1	A-5850.12	5
14 mm	A-5850.14/1	A-5850.14/1S	1	A-5850.14	5
16 mm	A-5850.16/1	A-5850.16/1S	1	A-5850.16	5
18 mm	A-5850.18/1	A-5850.18/1S	1	A-5850.18	5
20 mm	A-5850.20/1	A-5850.20/1S	1	A-5850.20	5
22 mm	A-5850.22/1	A-5850.22/1S	1	A-5850.22	5
24 mm	A-5850.24/1	A-5850.24/1S	1	A-5850.24	5
26 mm	A-5850.26/1	A-5850.26/1S	1	A-5850.26	5
28 mm	A-5850.28/1	A-5850.28/1S	1	A-5850.28	5
30 mm	A-5850.30/1	A-5850.30/1S	1	A-5850.30	5
32 mm	A-5850.32/1	A-5850.32/1S	1	A-5850.32	5
34 mm	A-5850.34/1	A-5850.34/1S	1	A-5850.34	5
36 mm	A-5850.36/1	A-5850.36/1S	1	A-5850.36	5
38 mm	A-5850.38/1	A-5850.38/1S	1	A-5850.38	5
40 mm	A-5850.40/1	A-5850.40/1S	1	A-5850.40	5
45 mm	A-5850.45/1	A-5850.45/1S	1	A-5850.45	5

2.5/2.8 Washer

Material: Titanium alloy (ASTM F136)



Description	Art. No.	STERILE	Pieces/Pkg	Art. No.	Pieces/Pkg
Concave	A-4700.70/1	A-4700.70/1S	1	A-4700.70	5

3.5 Cortical Screws, HexaDrive 15

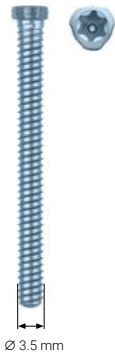
Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
16 mm	A-5900.16/1	A-5900.16/1S	1
18 mm	A-5900.18/1	A-5900.18/1S	1
20 mm	A-5900.20/1	A-5900.20/1S	1
22 mm	A-5900.22/1	A-5900.22/1S	1
24 mm	A-5900.24/1	A-5900.24/1S	1
26 mm	A-5900.26/1	A-5900.26/1S	1
28 mm	A-5900.28/1	A-5900.28/1S	1
30 mm	A-5900.30/1	A-5900.30/1S	1
32 mm	A-5900.32/1	A-5900.32/1S	1
34 mm	A-5900.34/1	A-5900.34/1S	1
36 mm	A-5900.36/1	A-5900.36/1S	1
38 mm	A-5900.38/1	A-5900.38/1S	1
40 mm	A-5900.40/1	A-5900.40/1S	1
45 mm	A-5900.45/1	A-5900.45/1S	1
50 mm	A-5900.50/1	A-5900.50/1S	1
55 mm	A-5900.55/1	A-5900.55/1S	1
60 mm	A-5900.60/1	A-5900.60/1S	1

3.5 TriLock Screws, HexaDrive 15

Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
16 mm	A-5950.16/1	A-5950.16/1S	1
18 mm	A-5950.18/1	A-5950.18/1S	1
20 mm	A-5950.20/1	A-5950.20/1S	1
22 mm	A-5950.22/1	A-5950.22/1S	1
24 mm	A-5950.24/1	A-5950.24/1S	1
26 mm	A-5950.26/1	A-5950.26/1S	1
28 mm	A-5950.28/1	A-5950.28/1S	1
30 mm	A-5950.30/1	A-5950.30/1S	1
32 mm	A-5950.32/1	A-5950.32/1S	1
34 mm	A-5950.34/1	A-5950.34/1S	1
36 mm	A-5950.36/1	A-5950.36/1S	1
38 mm	A-5950.38/1	A-5950.38/1S	1
40 mm	A-5950.40/1	A-5950.40/1S	1
45 mm	A-5950.45/1	A-5950.45/1S	1
50 mm	A-5950.50/1	A-5950.50/1S	1
55 mm	A-5950.55/1	A-5950.55/1S	1
60 mm	A-5950.60/1	A-5950.60/1S	1

4.0 Transfixation Screws, HexaDrive 7

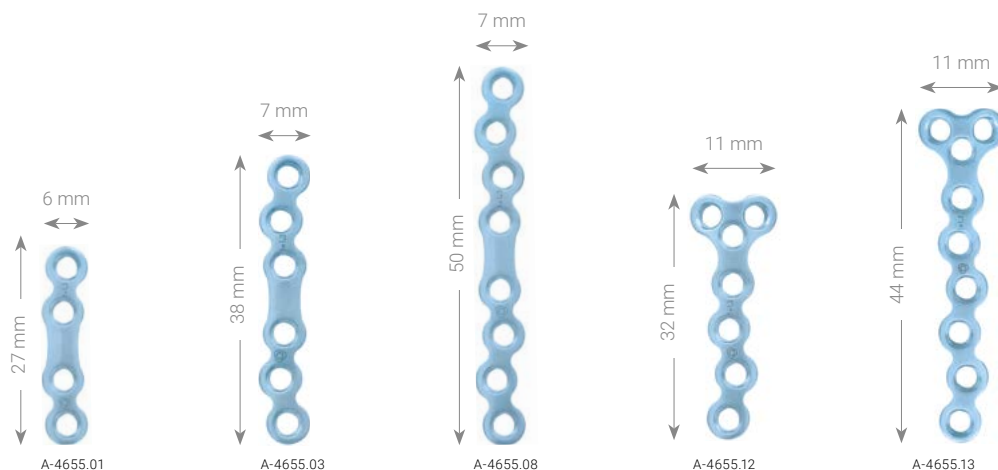
Material: Titanium alloy (ASTM F136)



Length	Art. No.	STERILE	Pieces/Pkg
28 mm	A-5936.28/1	A-5936.28/1S	1
30 mm	A-5936.30/1	A-5936.30/1S	1
32 mm	A-5936.32/1	A-5936.32/1S	1
34 mm	A-5936.34/1	A-5936.34/1S	1
36 mm	A-5936.36/1	A-5936.36/1S	1
38 mm	A-5936.38/1	A-5936.38/1S	1
40 mm	A-5936.40/1	A-5936.40/1S	1
45 mm	A-5936.45/1	A-5936.45/1S	1

2.0/2.3 TriLock Plates

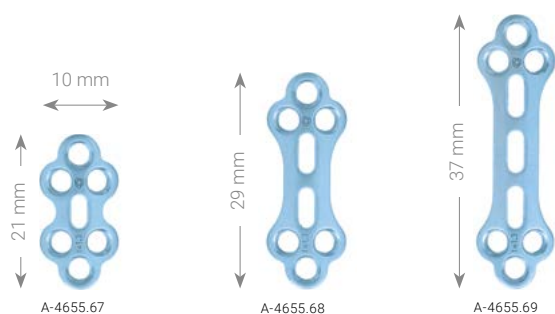
Material: Titanium (ASTM F67)
Plate thickness: 1.3 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4655.01	A-4655.01S	A-4655.01TP	straight	4	1
A-4655.03	A-4655.03S	A-4655.03TP	straight	6	1
A-4655.08	A-4655.08S	A-4655.08TP	straight	8	1
A-4655.12	A-4655.12S	A-4655.12TP	T	7 (3/4)	1
A-4655.13	A-4655.13S	A-4655.13TP	T	9 (3/6)	1

2.0/2.3 TriLock Grid Plates

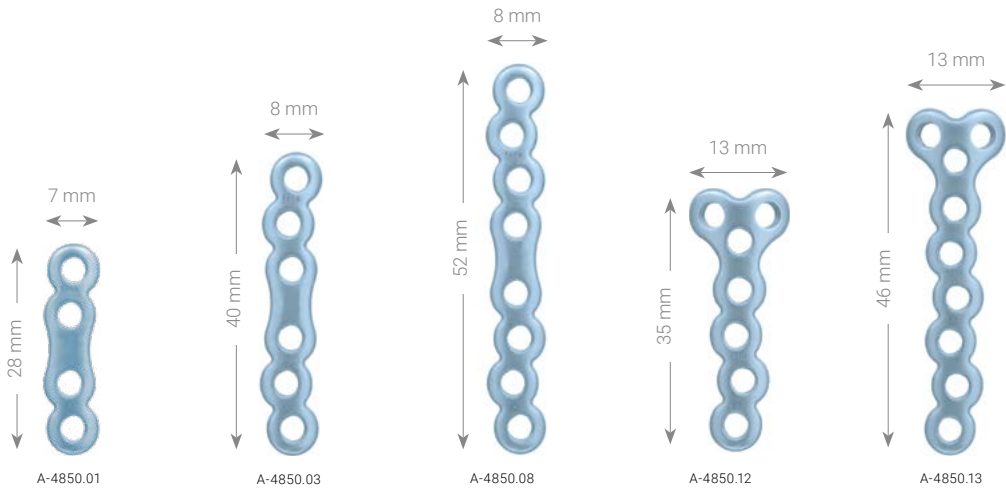
Material: Titanium (ASTM F67)
Plate thickness: 1.3 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4655.67	A-4655.67S	A-4655.67TP	Grid	6 (3+3)	1
A-4655.68	A-4655.68S	A-4655.68TP	Grid	6 (3+3)	1
A-4655.69	A-4655.69S	A-4655.69TP	Grid	6 (3+3)	1

2.8 TriLock Plates

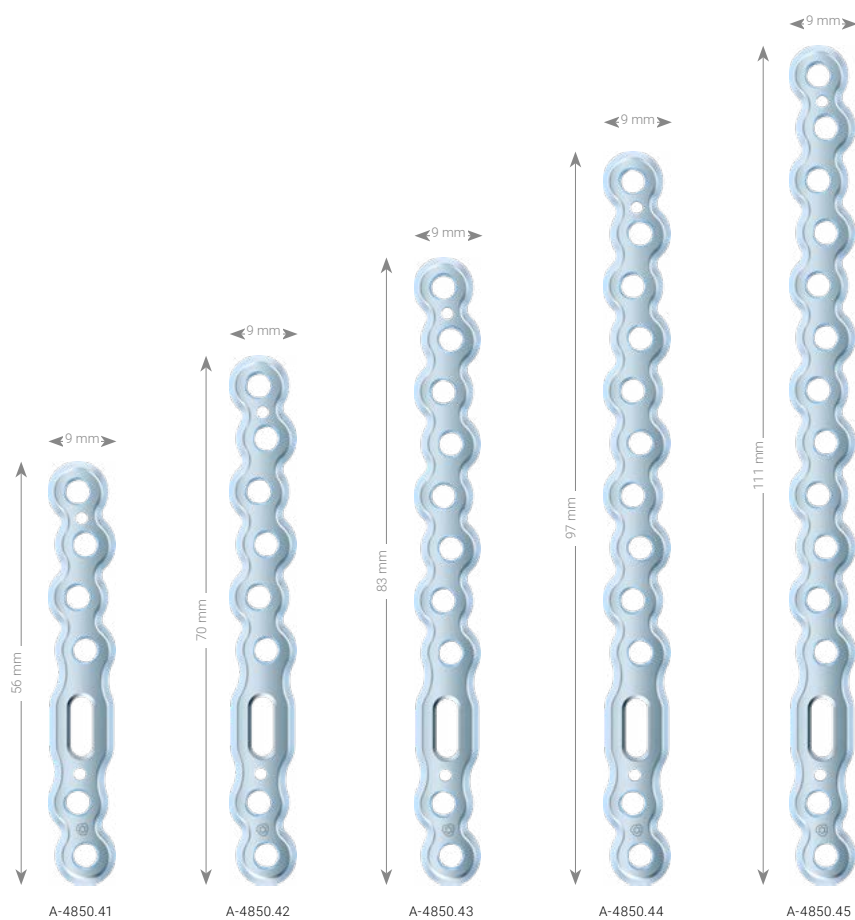
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4850.01	A-4850.01S	A-4850.01TP	straight	4	1
A-4850.03	A-4850.03S	A-4850.03TP	straight	6	1
A-4850.08	A-4850.08S	A-4850.08TP	straight	8	1
A-4850.12	A-4850.12S	A-4850.12TP	T	7 (2/5)	1
A-4850.13	A-4850.13S	A-4850.13TP	T	9 (2/7)	1

2.8 TriLock Plates, Straight

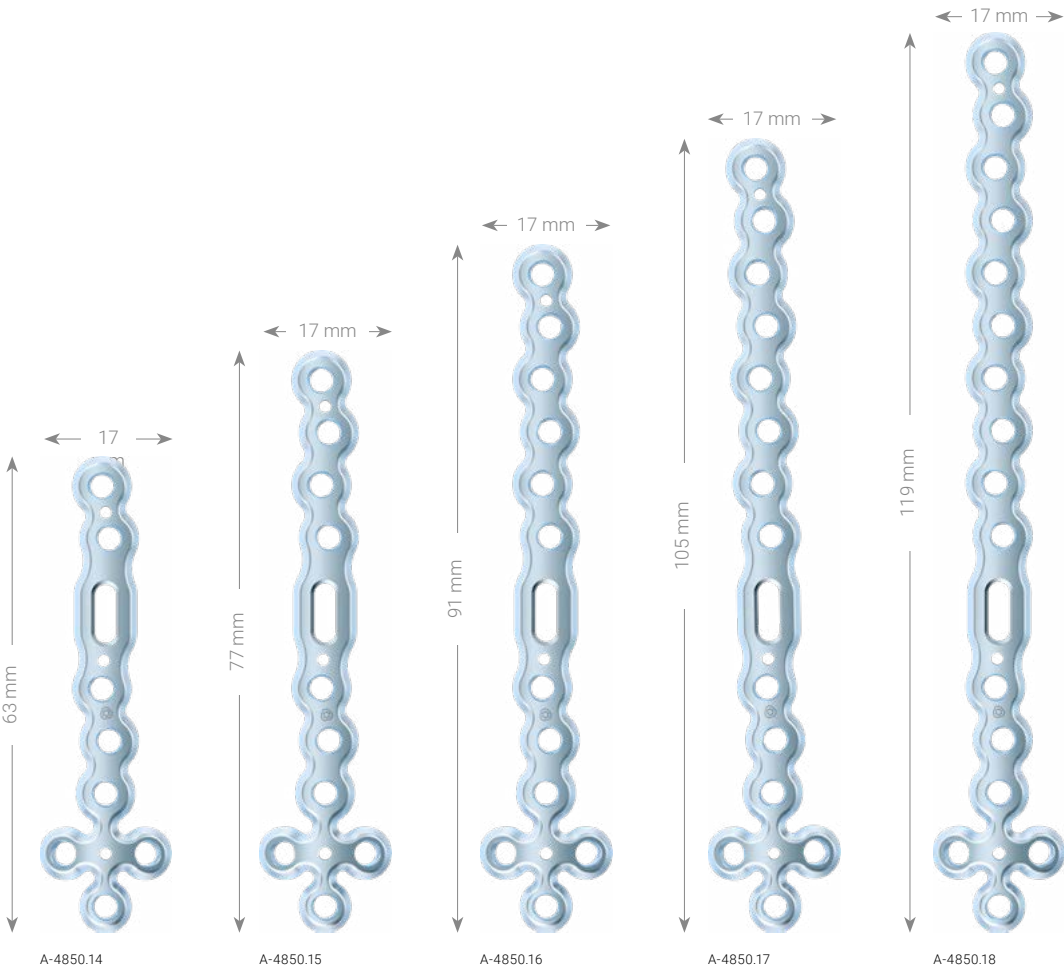
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Holes	Pieces/Pkg
A-4850.41	A-4850.41S	A-4850.41TP	7	1
A-4850.42	A-4850.42S	A-4850.42TP	9	1
A-4850.43	A-4850.43S	A-4850.43TP	11	1
A-4850.44	A-4850.44S	A-4850.44TP	13	1
A-4850.45	A-4850.45S	A-4850.45TP	15	1

2.8 TriLock Plates, T Extended

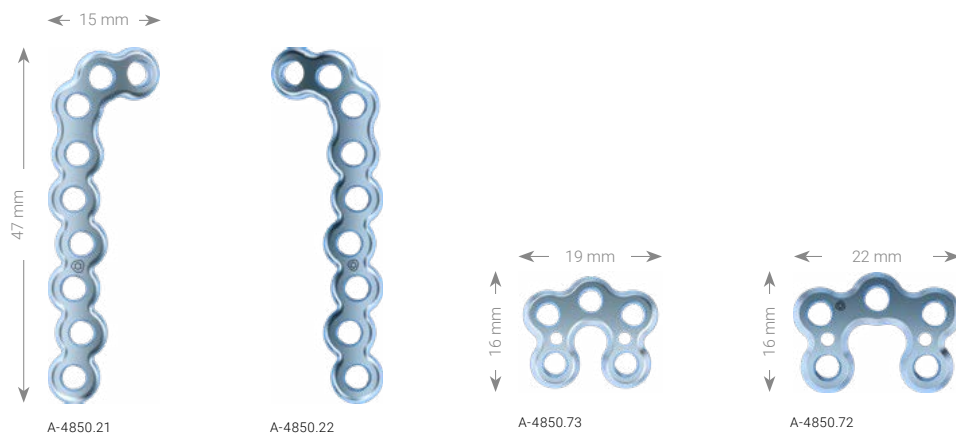
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Holes	Pieces/Pkg
A-4850.14	A-4850.14S	A-4850.14TP	9 (3/6)	1
A-4850.15	A-4850.15S	A-4850.15TP	11 (3/8)	1
A-4850.16	A-4850.16S	A-4850.16TP	13 (3/10)	1
A-4850.17	A-4850.17S	A-4850.17TP	15 (3/12)	1
A-4850.18	A-4850.18S	A-4850.18TP	17 (3/14)	1

2.8 TriLock Plates, L and C

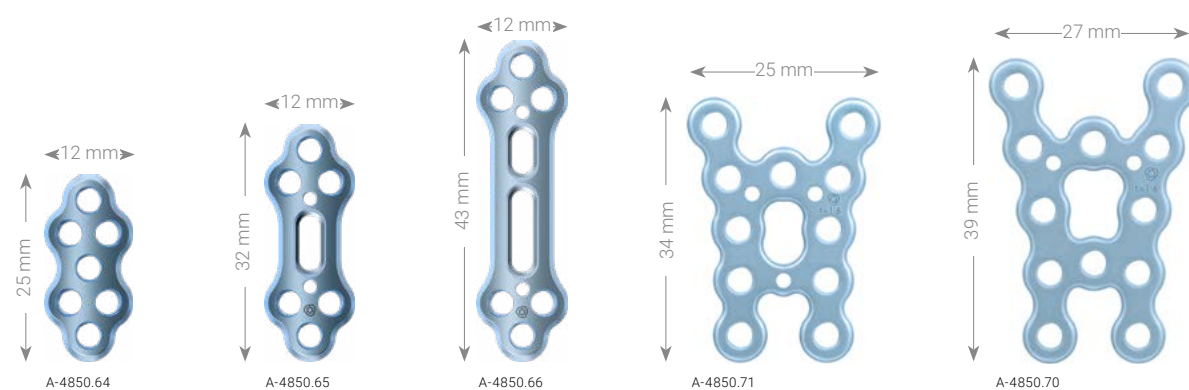
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4850.21	A-4850.21S	A-4850.21TP	L, left	9 (3/6)	1
A-4850.22	A-4850.22S	A-4850.22TP	L, right	9 (3/6)	1
A-4850.72	A-4850.72S	A-4850.72TP	C, large	5	1
A-4850.73	A-4850.73S	A-4850.73TP	C, small	5	1

2.8 TriLock Grid/Wing Plates

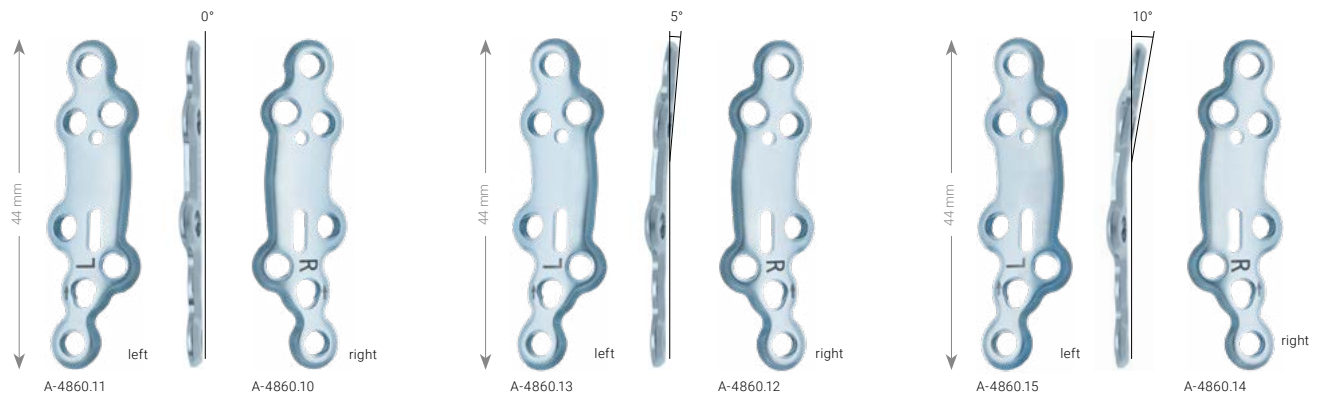
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4850.64	A-4850.64S	A-4850.64TP	Grid	6 (3+1+3)	1
A-4850.65	A-4850.65S	A-4850.65TP	Grid	7 (3+1+3)	1
A-4850.66	A-4850.66S	A-4850.66TP	Grid	8 (3+2+3)	1
A-4850.70	A-4850.70S	A-4850.70TP	wing, large	12	1
A-4850.71	A-4850.71S	A-4850.71TP	wing, small	11	1

2.8 TriLock MTP Fusion Plates

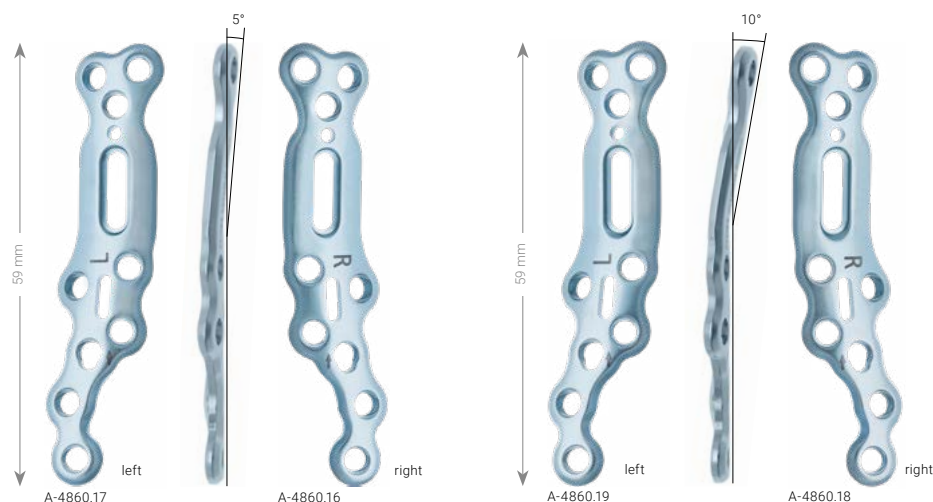
Material: Titanium (ASTM F67)
Plate thickness: 1.6 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4860.10	A-4860.10S	A-4860.10TP	0° dorsiflexion TriLock ^{PLUS} , right	7	1
A-4860.11	A-4860.11S	A-4860.11TP	0° dorsiflexion TriLock ^{PLUS} , left	7	1
A-4860.12	A-4860.12S	A-4860.12TP	5° dorsiflexion TriLock ^{PLUS} , right	7	1
A-4860.13	A-4860.13S	A-4860.13TP	5° dorsiflexion TriLock ^{PLUS} , left	7	1
A-4860.14	A-4860.14S	A-4860.14TP	10° dorsiflexion TriLock ^{PLUS} , right	7	1
A-4860.15	A-4860.15S	A-4860.15TP	10° dorsiflexion TriLock ^{PLUS} , left	7	1

2.8 TriLock MTP Revision Plates

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



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4860.16	A-4860.16S	A-4860.16TP	5° dorsiflexion TriLock ^{PLUS} , right	9	1
A-4860.17	A-4860.17S	A-4860.17TP	5° dorsiflexion TriLock ^{PLUS} , left	9	1
A-4860.18	A-4860.18S	A-4860.18TP	10° dorsiflexion TriLock ^{PLUS} , right	9	1
A-4860.19	A-4860.19S	A-4860.19TP	10° dorsiflexion TriLock ^{PLUS} , left	9	1

2.8 TriLock TMT-1 Fusion Plates

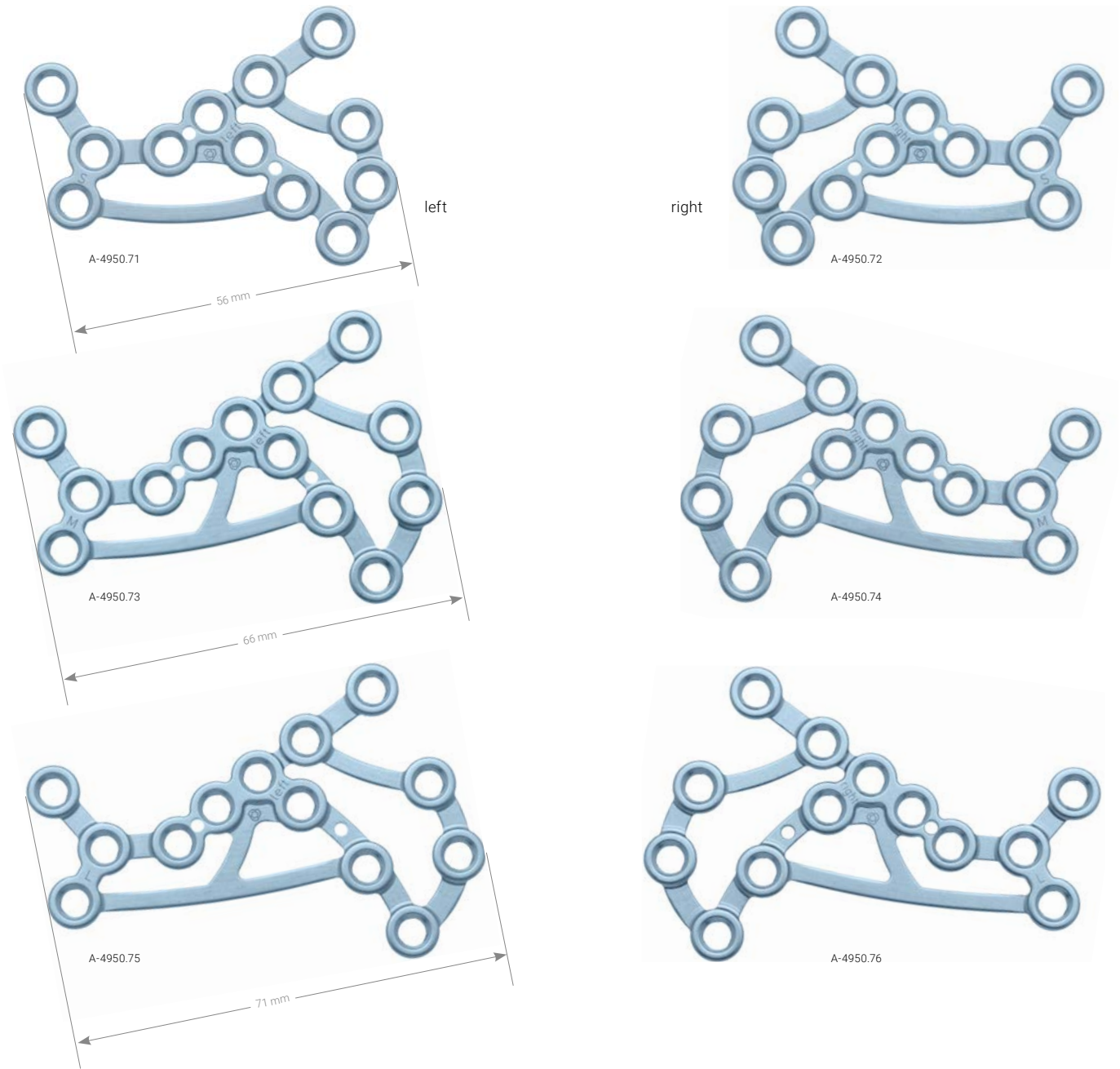
Material: Titanium (ASTM F67)



Art. No.	STERILE	Description	Plate thickness	Pieces/Pkg
A-4860.30	A-4860.30S	medial, medium, right, TriLock ^{PLUS}	1.6 mm	1
A-4860.31	A-4860.31S	medial, medium, left, TriLock ^{PLUS}	1.6 mm	1
	A-4860.32S	medial, large, right, TriLock ^{PLUS}	2.0 mm	1
	A-4860.33S	medial, large, left, TriLock ^{PLUS}	2.0 mm	1
A-4860.36	A-4860.36S	plantar, right	1.6 mm	1
A-4860.37	A-4860.37S	plantar, left	1.6 mm	1

3.5 TriLock Calcaneus Plates

Material: Titanium (ASTM F67)
Plate thickness: 2 mm



Art. No.	STERILE	Template	Description	Holes	Pieces/Pkg
A-4950.71	A-4950.71S	A-4950.71TP	left, small	12	1
A-4950.72	A-4950.72S	A-4950.72TP	right, small	12	1
A-4950.73	A-4950.73S	A-4950.73TP	left, medium	13	1
A-4950.74	A-4950.74S	A-4950.74TP	right, medium	13	1
A-4950.75	A-4950.75S	A-4950.75TP	left, large	13	1
A-4950.76	A-4950.76S	A-4950.76TP	right, large	13	1

Twist Drill Ø 1.6 mm



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3434	A-3434S	2.0	30 mm	86 mm	AO Quick Coupling	1

Twist Drill Ø 1.9 mm



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3530	A-3530S	2.3	35 mm	91 mm	AO Quick Coupling	1

Twist Drill Ø 2.35 mm (for Gliding Hole)



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3531	A-3531S	2.3	10 mm	66 mm	AO Quick Coupling	1

Twist Drill Ø 2.35 mm



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3832	A-3832S	2.8	50 mm	101 mm	AO Quick Coupling	1

Twist Drill Ø 2.9 mm (for Gliding Hole)



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3834	A-3834S	2.8	10 mm	61 mm	AO Quick Coupling	1

Twist Drill Ø 3.0 mm



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3931	A-3931S	3.5	70 mm	150 mm	AO Quick Coupling	1

Twist Drill Ø 3.6 mm (for Gliding Hole)



Art. No.	STERILE	System Size	Stop	Length	Shaft End	Pieces/Pkg
A-3933	A-3933S	3.5	30 mm	126 mm	AO Quick Coupling	1

Countersinks for Cortical Screws



A-3835



A-3930

Art. No.	STERILE	Description	System Size	Ø	Length	Shaft End	Pieces/Pkg
A-3835	A-3835S		2.8	3.7 mm	45 mm	AO Quick Coupling	1
A-3930	A-3930S	for 4.0 transfixation screws	3.5	6.0 mm	45 mm	AO Quick Coupling	1

MTP Reamers, Cannulated



A-3030.05



A-3030.06

Art. No.	Description	Ø	Shaft End	Pieces/Pkg
A-3030.01	Cup	16 mm	AO Quick Coupling	1
A-3030.02	Cone	16 mm	AO Quick Coupling	1
A-3030.03	Cup	18 mm	AO Quick Coupling	1
A-3030.04	Cone	18 mm	AO Quick Coupling	1
A-3030.05	Cup	20 mm	AO Quick Coupling	1
A-3030.06	Cone	20 mm	AO Quick Coupling	1
A-3030.07	Cup	22 mm	AO Quick Coupling	1
A-3030.08	Cone	22 mm	AO Quick Coupling	1
A-3030.09	Cup	24 mm	AO Quick Coupling	1
A-3030.10	Cone	24 mm	AO Quick Coupling	1

K-Wires, Trocar, Stainless Steel



A-5040.41

Art. No.	STERILE	Ø	Length	Pieces/Pkg
A-5040.41		1.6 mm	150 mm	10
A-5040.41/1		1.6 mm	150 mm	1
A-5040.41/2S		1.6 mm	150 mm	2
A-5040.61		2.0 mm	150 mm	10
A-5040.61/1		2.0 mm	150 mm	1
A-5040.61/2S		2.0 mm	150 mm	2

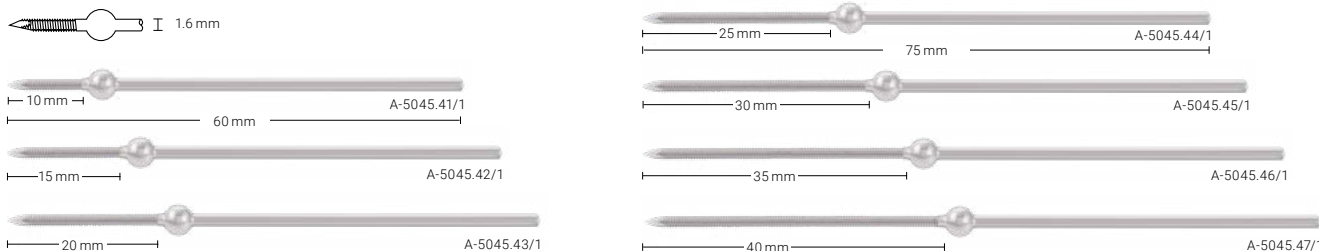
K-Wires, Lancet, Stainless Steel



A-5042.41

Art. No.	STERILE	Ø	Length	Pieces/Pkg
A-5042.41		1.6 mm	150 mm	10
A-5042.41/1		1.6 mm	150 mm	1
A-5042.41/2S		1.6 mm	150 mm	2
A-5042.61		2.0 mm	150 mm	10
A-5042.61/1		2.0 mm	150 mm	1
A-5042.61/2S		2.0 mm	150 mm	2

Olive K-Wires, Stainless Steel



Art. No.	STERILE	Ø	Thread Length	Length	Pieces/Pkg
A-5045.41/1		1.6 mm	10 mm	60 mm	1
A-5045.41/2S		1.6 mm	10 mm	60 mm	2
A-5045.42/1		1.6 mm	15 mm	65 mm	1
A-5045.42/2S		1.6 mm	15 mm	65 mm	2
A-5045.43/1		1.6 mm	20 mm	70 mm	1
A-5045.43/2S		1.6 mm	20 mm	70 mm	2
A-5045.44/1		1.6 mm	25 mm	75 mm	1
A-5045.44/2S		1.6 mm	25 mm	75 mm	2
A-5045.45/1		1.6 mm	30 mm	80 mm	1
A-5045.45/2S		1.6 mm	30 mm	80 mm	2
A-5045.46/1		1.6 mm	35 mm	85 mm	1
A-5045.46/2S		1.6 mm	35 mm	85 mm	2
A-5045.47/1		1.6 mm	40 mm	90 mm	1
A-5045.47/2S		1.6 mm	40 mm	90 mm	2

Drill Guides



A-2021



A-2620



A-2022



A-2820



A-2026



A-2920

Art. No.	System Size	Description	Length	Pieces/Pkg
A-2021	2.0/2.3, 2.8	core hole	147 mm	1
A-2022	2.0/2.3, 2.8	gliding hole, for lag screws	150 mm	1
A-2026	2.5/2.8	TriLock ^{PLUS}	146 mm	1
A-2620	2.0/2.3	core and gliding hole	150 mm	1
A-2820	2.8	core and gliding hole, for lag screws	146 mm	1
A-2920	3.5	core and gliding hole	171 mm	1

Drill Sleeves



A-2826



A-2921

Art. No.	System Size	Description	Length	Pieces/Pkg
A-2826	2.5/2.8	self-holding	34 mm	1
A-2921	3.5	self-holding	50 mm	1

Depth Gauges



A-2031



A-2032



A-2837



A-2930

Art. No.	System Size	Length	Pieces/Pkg
A-2031	2.0 – 2.8	189 mm	1
A-2032	2.0/2.3	151 mm	1
A-2837	2.8	189 mm	1
A-2930	3.5/4.0	210 mm	1

Screwdrivers, Self-Holding



A-2610



A-2810



Art. No.	System Size	Interface	Length	Pieces/Pkg
A-2610	2.0/2.3	HD6	153 mm	1
A-2810	2.8	HD7	166 mm	1

Handles with Quick Connector



A-2070



A-2073



A-2074

Art. No.	Description	Length	for Shaft End	Pieces/Pkg
A-2070		119 mm	AO Quick Coupling	1
A-2073	with twist cap	125 mm	AO Quick Coupling	1
A-2074		145 mm	AO Quick Coupling	1

Screwdriver Blades, Self-Holding



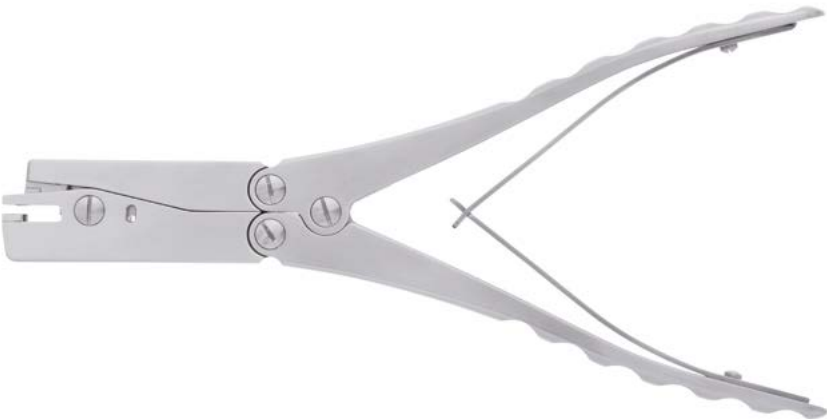
Art. No.	System Size	Interface	Length	Shaft End	Pieces/Pkg
A-2013	2.5/2.8	HD7	75 mm	AO Quick Coupling	1
A-2611	2.0/2.3	HD6	75 mm	AO Quick Coupling	1
A-2911	3.5/4.0	HD15	80 mm	AO Quick Coupling	1

Plate Holding Forceps



Art. No.	System Size	Length	Pieces/Pkg
A-2050	2.0 – 3.5	122 mm	1

Plate Cutting Pliers



Art. No.	System Size	Length	Pieces/Pkg
A-2045	2.0 – 3.5	218 mm	1

Plate Bending Pliers



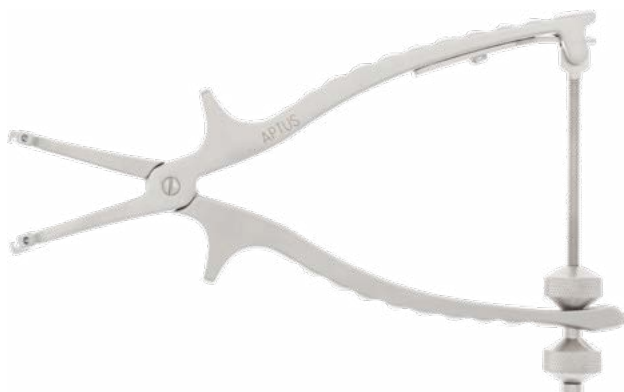
A-2047



A-2940

Art. No.	System Size	Description	Length	Pieces/Pkg
A-2047	2.0 – 2.8	with pins	158 mm	1
A-2940	3.5/4.0	with pin	158 mm	1

Compression and Distraction Forceps for K-Wires



Art. No.	Description	Length	Pieces/Pkg
A-2049	for 1.6 mm K-wires/olive K-wires	163 mm	1

Reduction Forceps



Art. No.	Description	Length	Pieces/Pkg
A-7001	«Apart»	130 mm	1

Bone Holding Forceps



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

Bone Elevator Mini-Hohmann



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

Periosteal Elevator



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

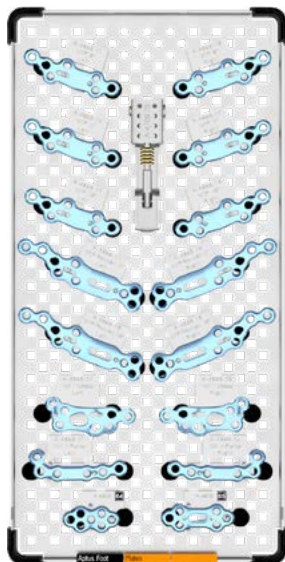
Hook



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

Plate and Screw Case

Example of a Hallux 2.8 plate and screw case



A-6601.068
(excl. implants)

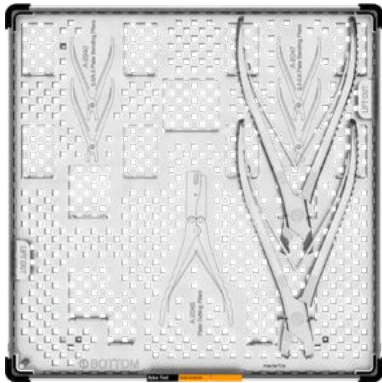


A-6601.031 containing A-6601.086
(excl. screws)

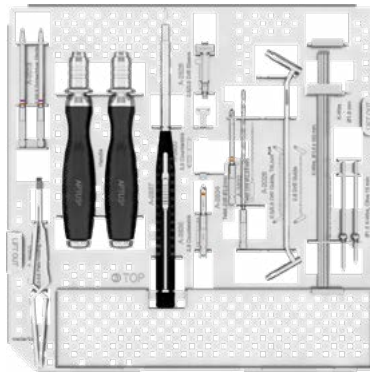
Art. No.	Description	Dimensions (W x L)	Pieces/Pkg
A-6601.031	implant case APTUS foot screws 2.8	120 x 240 mm	1
A-6601.068	implant case APTUS foot plates 2.8	120 x 240 mm	1
A-6601.086	screw tray APTUS Foot 2.8	120 x 240 mm	1
M-6726	lid for implant and instrument case 120 x 240 mm	120 x 240 mm	1

Instrument Cases

Example of Hallux 2.8 instrument cases



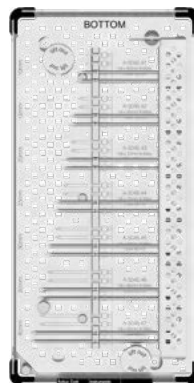
A-6601.080 with A-6601.082
(excl. instruments)



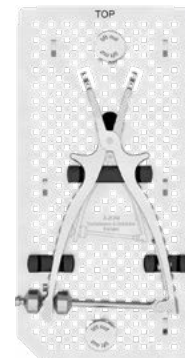
A-6601.084
(excl. instruments)



A-6601.010 with A-6601.012
(excl. instruments)



A-6601.013 with A-6601.007 and A-6601.008
(excl. instruments)



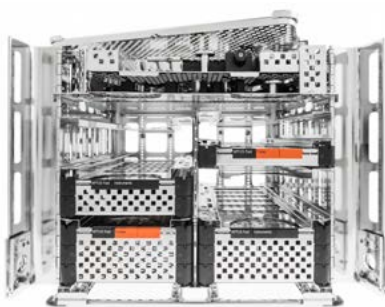
A-6601.008
(excl. instruments)

Art. No.	Description	Dimensions (W x L)	Pieces/Pkg
A-6601.007	instrument tray APTUS foot	114 x 234 mm	1
A-6601.008	instrument tray APTUS foot	114 x 234 mm	1
A-6601.010	instrument case APTUS foot	120 x 240 mm	1
A-6601.012	instrument tray APTUS foot	114 x 234 mm	1
A-6601.013	instrument case APTUS foot	120 x 240 mm	1
A-6601.080	instrument case APTUS foot 2.8	240 x 240 mm	1
A-6601.082	instrument tray APTUS foot	234 x 234 mm	1
A-6601.084	instrument tray APTUS foot 2.8	234 x 234 mm	1
A-6622	instrument case for MTP reamers	120 x 240 mm	1
A-6623	instrument tray for MTP reamers	113 x 230 mm	1
M-6726	lid for implant and instrument case 120 x 240 mm	120 x 240 mm	1
M-6727	lid for implant and instrument case 240 x 240 mm	240 x 240 mm	1

Set configurations for Foot Systems 2.0-3.5

System	Art. No	Description	Dimensions (W x L)	Pieces/Pkg
Fore- and Midfoot System 2.0/2.3, 2.8	A-6002	lid "APTUS Foot 2.0-2.8" for A-6026	242 x 242 mm	1
	A-6026	lower instrument tray "1"	238 x 238 mm	1
	A-6029	middle instrument tray "2" for A-6026	230 x 228 mm	1
	A-6030	upper instrument tray "3" for A-6026	230 x 228 mm	1
	A-0510	implant container Foot 2.0/2.3 TriLock and Fixation	112 x 244 mm	1
	A-0520	implant container Foot 2.8 TriLock and Fixation	112 x 244 mm	1
SpeedTip C 2.0, 2.8	A-6620	instrument tray SpeedTip C	113 x 124 mm	1
	A-6621	implant case SpeedTip C	120 x 240 mm	1
	M-6706	lid for implant and instrument case	120 x 240 mm	1
Calcaneus System 3.5	A-6500	lid for 2/5 case	242 x 252 mm	1
	A-6506	2/5 case	237 x 249 mm	1
	A-6550	1/5 x 12 mm plate module calcaneus 3.5	100 x 239 mm	1
	A-6551	1/5 x 72 mm screw module calcaneus 3.5	100 x 238 mm	1
	A-6552	1/5 x 60 mm instrument module calcaneus 3.5	100 x 236 mm	1
	A-6553	2/5 x 24 mm instrument module calcaneus 3.5	202 x 237 mm	1

Storage and Transportation



A-6610.60
(excl. containers)

Art. No.	Description	Dimensions (W x L x H)	Pieces/Pkg
A-6610.60*	storage container	265 x 257 x 238 mm	1
A-6611*	lid for A-6610.xx	273 x 260 mm	1
M-6710	holding rack for implant and instrument cases, for case 240 x 240 mm	252 x 243 x 143 mm	1
M-6720	holding rack for implant and instrument cases, for case 240 x 240 mm	252 x 243 x 245 mm	1

* Not available in all countries.

Articles available on request

A-2024	A-3424S	A-4850.68	A-5950.12/1	A-6335	A-6601.039
A-2030	A-3431	A-4850.68S	A-5950.12/1S	A-6350	A-6601.067
A-2046	A-3431S	A-4850.68TP	A-5950.14/1	A-6501	A-6601.068
A-2060	A-3510	A-4850.69	A-5950.14S	A-6502	A-6601.069
A-2065	A-3510S	A-4850.69S	A-6000	A-6507	A-6601.072
A-2077	A-3512	A-4850.69TP	A-6001	A-6600.010	A-6601.088
A-2650	A-3512S	A-5040.21	A-6009	A-6601.001	A-6601.090
A-2836	A-3513	A-5040.21/1	A-6010.16	A-6601.002	A-6610.50
A-2913.1	A-3513S	A-5040.21/2S	A-6020	A-6601.003	A-6610.91
A-2913.2	A-3520	A-5040.42/1S	A-6020.1	A-6601.004	A-7002
A-2925	A-3520S	A-5042.51	A-6024	A-6601.005	A-7003
A-2927	A-3521	A-5042.51/1	A-6025	A-6601.009	A-7005
A-2931	A-3521S	A-5042.51/2S	A-6040	A-6601.011	A-7010
A-3411	A-3610	A-5042.51/4S	A-6100	A-6601.014	A-7011
A-3411S	A-3610S	A-5044.42	A-6101	A-6601.022	A-7013
A-3413	A-3839	A-5044.42/1	A-6150	A-6601.023	A-8000.12
A-3413S	A-4750.70	A-5044.42/1S	A-6210	A-6601.024	S-6001
A-3414	A-4750.70/1	A-5500.05	A-6211	A-6601.025	
A-3414S	A-4750.70/1S	A-5500.05/1	A-6282	A-6601.026	
A-3421	A-4850.67	A-5505.05/1S	A-6300	A-6601.027	
A-3421S	A-4850.67S	A-5950.10/1	A-6301	A-6601.028	
A-3424	A-4850.67TP	A-5950.10/1S	A-6330	A-6601.037	

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