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Instruction For User & Product Information

2,7/3,5 and 4,0 mm Small Fragment Locking / Non-Locking Plate Instrument Set

AYSAM PLATING TECHNOLOGIES

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Table of Contents

Aysam Small Fragment System

Aysam Small Fragment System is a system of instruments, coupled with standard and anatomic implants designed for small fragment surgical procedures. The system consists of two components:
1) A core set of instruments, screws, and standard implants;
2) Modular anatomic implant trays for the supported small fragment anatomy. In addition, the core set can support all 2,7 mm / 3,5 mm / 4,0 mm Aysam locking & non-locking plating technologies.

This system from Aysam is designed to allow 2,7 mm / 3,5 mm / 4,0 mm implants to be supported with one core set of instruments, which reduces operating room complexity and improves workflow efficiency. Compared to existing systems, the signature benefits of the Small Fragment system include:

- Improved instrument and system ease of use by operating room teams and hospital staff
- Improved efficiency through a reduction in instruments and trays needed for small fragment procedures
- Reduction in hospital costs associated with maintaining equipment

General AO Principles

In 1958, the AO Foundation formulated four basic principles, which have become the guidelines for internal fixation

Anatomic reduction: Fracture reduction and fixation to restore anatomical relationships.

Stable fixation: Fracture fixation providing absolute or relative stability, as required by the patient, the injury, and the personality of the fracture.

Early, active mobilization: Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.

Preservation of blood supply: Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling.

Intended Use:

Aysam Small Fragment System assists the surgeon in the fixation of implants for small fragment fractures where 2,7mm / 3,5mm / 4,0mm non-locking, locking plating technology is utilized. For specific indications or surgical technique of specific 2,7 mm / 3,5 mm / 4,0 mm plating technology, refer to the desired anatomic plate surgical technique guide.
The Surgical Technique section of this document describes use of the instruments inside the Aysam Small Fragment Set.
Precautions:

- Instruments and screws may have sharp edges or moving joints that may pinch or tear user's glove or skin.
- Handle devices with care and dispose of worn bone cutting instruments in an approved sharps container.
- When using sterile packed implants and instruments, use proper operating room aseptic technique.

Surgical preparation and fracture reduction

A3200-0116	SELF-CENTERING BONE HOLDING FORCEPS (190 MM)	
A3200-0117	SHARP REDUCTION FORCEP (170 MM)	
A3200-0118	OBLİQUE REDUCTION FORCEP (190 MM)	

Patient positioning: The surgeon decides the position of patient based on anatomic location and desired surgical approach. If necessary surgeon can apply tourniquet on extremity above the surgery site to interrupt blood flow during the surgical procedure.

Preparation of surgical site: After skin incision and separation of the soft tissues around the fracture site, periosteal elevator may be used to scrape the soft tissues over the broken bone and to prepare the broken bone ends for surgical procedure.

Precaution: Do not strike the back of the Periosteal Elevator

Fracture reduction: Reduce the fracture using necessary visualization with or without fluoroscopy. Provide fixation with K-wire or reduction forceps, as needed.

Alternative/Indirect fracture reduction: Reduce the fracture indirectly using the plate by means of non-locking screws (for lag screw technique: to generate inter-fragmentary compression, use cancellous bone or cortical bone screws).

Implant Selection and Fit

Both anatomic and standard plates are available in various technology types and sizes. Use desired technique to determine proper plate type and size.

Plate Bending Irons

A3200-0114	BENDING IRON SMALL RIGHT	
A3200-0115	BENDING IRON SMALL LEFT	

Plate Contouring

Use the bending irons to contour the plates to the anatomy. The closed bending iron can be used to hold the plate during contouring. The open bending iron can be positioned at any location on the plate.

Precautions

• The plate holes have been designed to accept some degree of deformation. When bending, be careful not to distort locking holes. Significant distortion of the locking holes will reduce locking effectiveness.

• Do not bend the periarticular section of the anatomical plate.

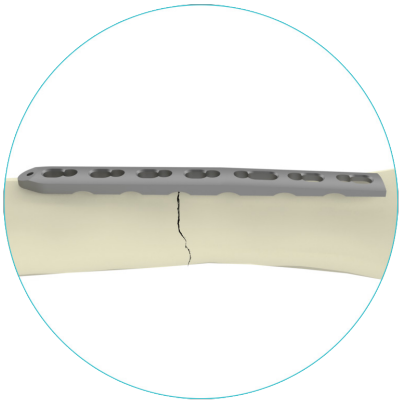
• Reverse bending, bending the plate at the same place multiple times, or using incorrect instrumentation for bending may weaken the plate and lead to premature plate failure (e.g., breakage).

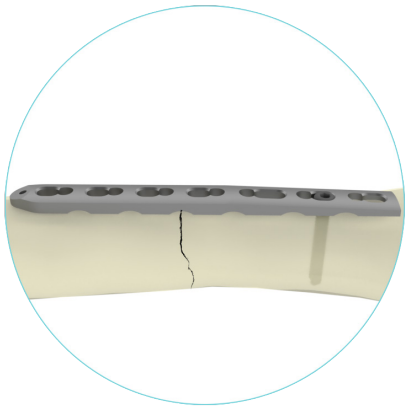
• Do not bend the plate beyond what is required to match the anatomy.

• Do not bend the plate using the threaded drill guide. Damage may occur to the plate hole threads.

Plate positioning

Position the plate on the bone, and preliminarily fix it. If axial dynamic compression is used, ensure that the middle of the plate is over to the fracture line.





Secure plate to bone

Determine the combination of screws to be used for fixation. If a combination of locking and cortex screws will be used, cortex screws should be inserted first to ensure that the plate has appropriate bone contact.

Screw hole preparation and measurement

Screw insertion

Determine which screws are required for fixation. A combination of all those listed may be used; however, a non-locking screw should be used first to pull the plate to the bone.

The Screw Reference Chart given below describes the proper instrumentation for the screws placed inside Aysam Small Fragment Set Screw Rack.

Screw Reference Chart				
Screw Size(mm)	Screw Type	Drill Bit (mm)	Torque Limit(Nm)	Driver Options
2,7	Locking	2,0	0,8	SW 2,0
3,5	Locking	2,7	1,5	SW 2,5
	Non-Locking	2,7	1,5	SW 2,5
4,0	Non-Locking	3,2	1,5	SW 2,5

2,7 mm Mini Locking Screw

TI	DIA. x LENGTH (mm)
A1982710	2,7X10
A1982712	2,7X12
A1982714	2,7X14
A1982716	2,7X16
A1982718	2,7X18
A1982720	2,7X20
A1982722	2,7X22
A1982724	2,7X24

TI	DIA. x LENGTH (mm)
A1982726	2,7X26
A1982728	2,7X28
A1982730	2,7X30
A1982732	2,7X32
A1982734	2,7X34
A1982736	2,7X36
A1982738	2,7X38
A1982740	2,7X40

3,5 mm Cortical Screw (Pitch 1,25 mm)

SS	TI	DIA. x LENGTH (mm)
A100 03 218 0100	A110 03 218 0100	3,5X10
A100 03 218 0120	A110 03 218 0120	3,5X12
A100 03 218 0140	A110 03 218 0140	3,5X14
A100 03 218 0160	A110 03 218 0160	3,5X16
A100 03 218 0180	A110 03 218 0180	3,5X18
A100 03 218 0200	A110 03 218 0200	3,5X20
A100 03 218 0220	A110 03 218 0220	3,5X22
A100 03 218 0240	A110 03 218 0240	3,5X24
A100 03 218 0260	A110 03 218 0260	3,5X26
A100 03 218 0280	A110 03 218 0280	3,5X28
A100 03 218 0300	A110 03 218 0300	3,5X30
A100 03 218 0320	A110 03 218 0320	3,5X32
A100 03 218 0340	A110 03 218 0340	3,5X34

SS	TI	DIA. x LENGTH (mm)
A100 03 218 0360	A110 03 218 0360	3,5X36
A100 03 218 0380	A110 03 218 0380	3,5X38
A100 03 218 0400	A110 03 218 0400	3,5X40
A100 03 218 0420	A110 03 218 0420	3,5X42
A100 03 218 0440	A110 03 218 0440	3,5X44
A100 03 218 0460	A110 03 218 0460	3,5X46
A100 03 218 0480	A110 03 218 0480	3,5X48
A100 03 218 0500	A110 03 218 0500	3,5X50
A100 03 218 0520	A110 03 218 0520	3,5X52
A100 03 218 0540	A110 03 218 0540	3,5X54
A100 03 218 0560	A110 03 218 0560	3,5X56
A100 03 218 0580	A110 03 218 0580	3,5X58
A100 03 218 0600	A110 03 218 0600	3,5X60

3,5 mm Self-Tapping Locking Screw

SS	TI	DIA. x LENGTH (mm)
A1993510	A1983510	3,5X10
A1993512	A1983512	3,5X12
A1993514	A1983514	3,5X14
A1993516	A1983516	3,5X16
A1993518	A1983518	3,5X18
A1993520	A1983520	3,5X20
A1993522	A1983522	3,5X22
A1993524	A1983524	3,5X24
A1993526	A1983526	3,5X26
A1993528	A1983528	3,5X28

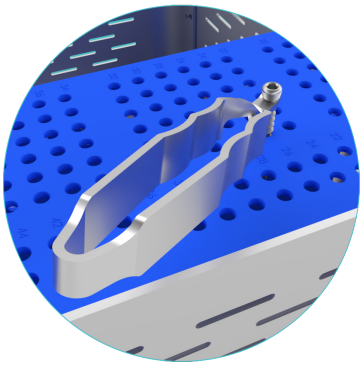
SS	TI	DIA. x LENGTH (mm)
A1993530	A1983530	3,5X30
A1993532	A1983532	3,5X32
A1993534	A1983534	3,5X34
A1993536	A1983536	3,5X36
A1993538	A1983538	3,5X38
A1993540	A1983540	3,5X40
A1993542	A1983542	3,5X42
A1993544	A1983544	3,5X44
A1993546	A1983546	3,5X46
A1993548	A1983548	3,5X48
A1993550	A1983550	3,5X50
A1993555	A1983555	3,5X55
A1993560	A1983560	3,5X60

4,0 mm Cancellous Bone Screw Full Threaded

SS	TI	DIA. x LENGTH (mm)
A100 03 220 0100	A110 03 220 0100	4,0X10
A100 03 220 0120	A110 03 220 0120	4,0X12
A100 03 220 0140	A110 03 220 0140	4,0X14
A100 03 220 0160	A110 03 220 0160	4,0X16
A100 03 220 0180	A110 03 220 0180	4,0X18

SS	TI	DIA. x LENGTH (mm)
A100 03 220 0200	A110 03 220 0200	4,0X20
A100 03 220 0220	A110 03 220 0220	4,0X22
A100 03 220 0240	A110 03 220 0240	4,0X24
A100 03 220 0260	A110 03 220 0260	4,0X26
A100 03 220 0280	A110 03 220 0280	4,0X28
A100 03 220 0300	A110 03 220 0300	4,0X30
A100 03 220 0350	A110 03 220 0350	4,0X35
A100 03 220 0400	A110 03 220 0400	4,0X40
A100 03 220 0450	A110 03 220 0450	4,0X45
A100 03 220 0500	A110 03 220 0500	4,0X50
A100 03 220 0550	A110 03 220 0550	4,0X55
A100 03 220 0600	A110 03 220 0600	4,0X60

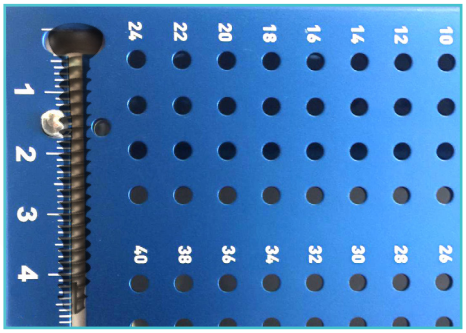
SCREW FORCEPS



Screw Forceps (A3200-0124) is used to pick up screw from the screw rack.

A3200-0124	SCREW FORCEPS	

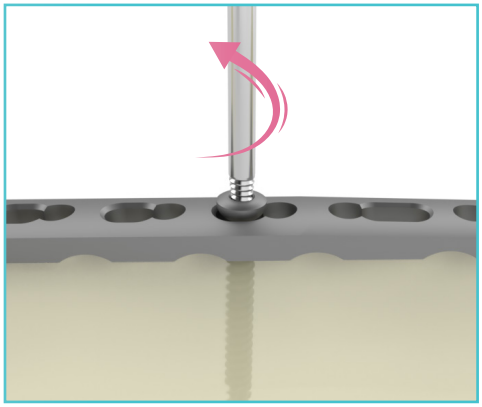
SCREW LENGTH MEASUREMENT SCHEDULE



The screw is placed on the screw length measurement schedule to determine the length of the screw.

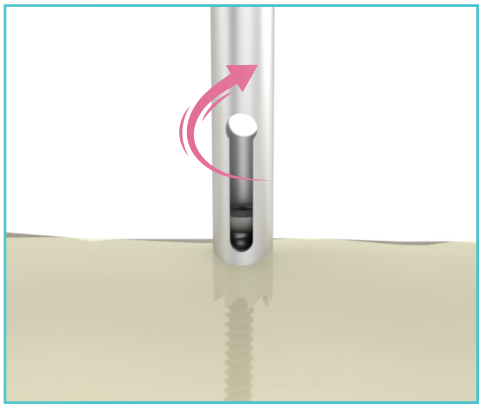
SCREW EXTRACTION TOOLS

Extraction Screw Hexagonal 2,5 mm Conical



Extraction Screw Hexagonal 2,5 mm Conical (A3200-0109) tool is used to extract the screws when their driving sockets in their heads are damaged and if screwdrivers do not work on them.
This tool is coupled with a power drill and placed into the damaged socket of the screw head as parallel with the axis of the screw shaft. Then power tool is adjusted to turn in reverse clockwise direction and the tool is pressed on the screw socket while the power tool is turning.

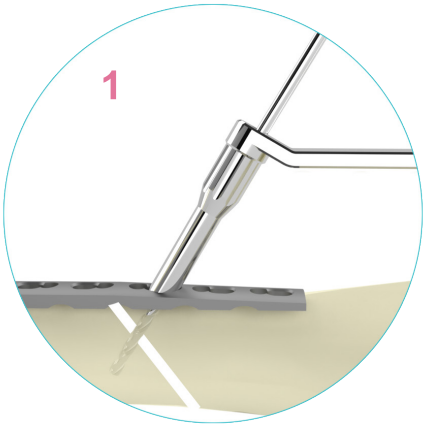
Hollow Reamer Small



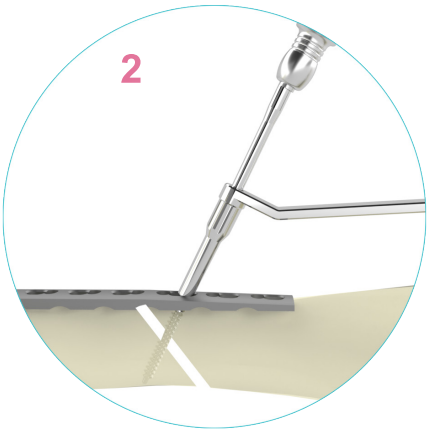
Hollow Reamer Small (A3200-0107) tool is used to extract the screws when their driving sockets in their heads are damaged and if screwdrivers do not work on them or if the head of the screw is broken and shaft of is screw is still inside the bone.
This tool is coupled with a power drill and placed around the damaged screw head or screw shaft as parallel with the axis of the screw shaft. Then power tool is adjusted to turn in clockwise direction and tool is pressed around the screw socket or shaft while the power tool is turning.

4,0 Cortex Screw Hole Preparation and Measurement (for interfragmentary compression at fracture site)

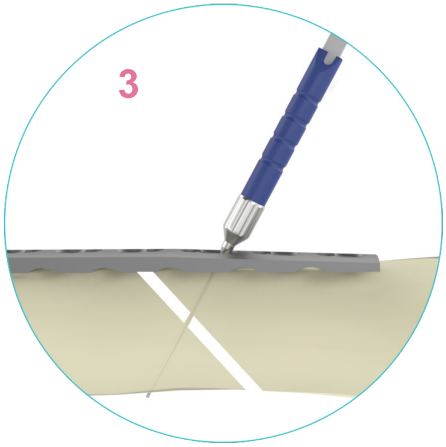
Neutral site of the “Neutral And Load Drill Guide (A3200-0121) instrument” is placed on the combi hole of plate as perpendicular to the fracture site. Drill Bit Ø3,2X130 mm (A3200-0103) is coupled to power drill and through the guide, both cortexes of the broken bone are drilled.



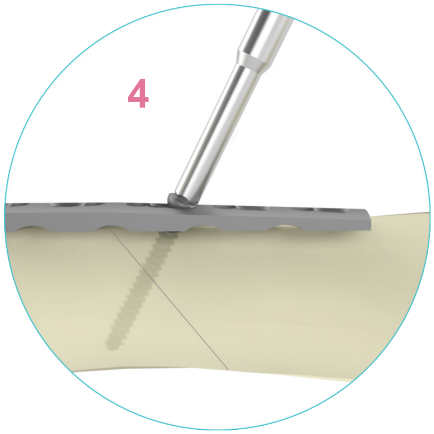
Tap Cancellous 4,0 mm (A3200-0106) is coupled to the T-Handle Quick Coupling (A3200-0125), Neutral And Load Drill Guide (A3200-0121) is turned, 4,0 mm direction of the handpiece is used for tapping the both cortex of the screw hole. Then by using Ø4,0 mm drill (not available in Aysam Small Fragment Instrument Set, but may be supplied as an extra) the hole in the first cortex of the broken bone is enlarged to compress the fracture ends together.



Depth Gauge 0-70 mm (A3200-0129) is used to determine the length of the screw

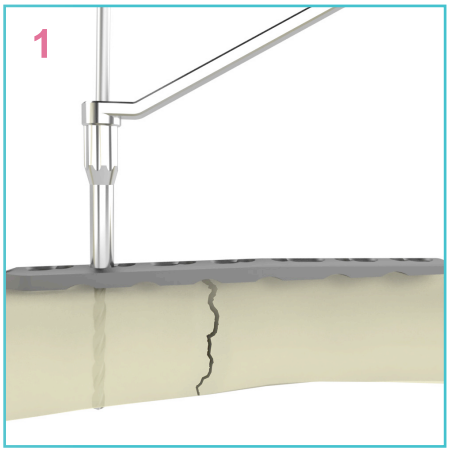


Hexagonal Screwdriver 2,5 mm (A3200-0113) is used to drive the screw. As the screw is driven it pulls the other cortex towards the first cortex and compressin at the fracture site is achieved.

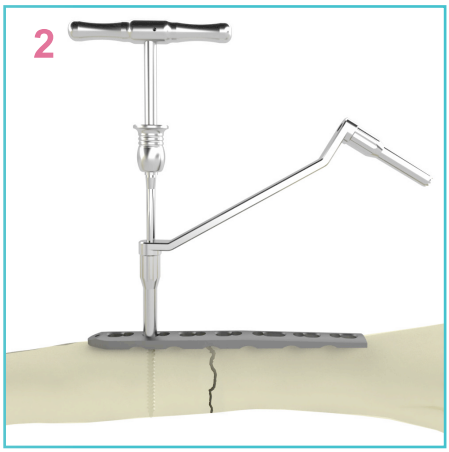


Compression Screw techique

The purpose of the compression technique is to bring the fracture line in the bone as close to each other as possible.
Neutral And Load Drill Guide (A3200-0121) is placed towards the outer side of the nonlocking site of combi hole in the load position (as external cover of drill guide is not screwed on it). Drill Bit Ø3,2X130 mm (A3200-0103) is coupled to power drill and through the guide, both cortexes of the broken bone are drilled.

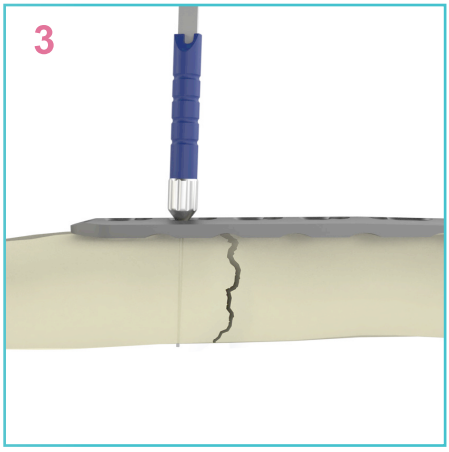


Tap Cancellous 4,0 mm (A3200-0106) is coupled to the T-Handle Quick Coupling (A3200-0125), Neutral And Load Drill Guide (A3200-0121) is turned, 4,0 mm direction of the handpiece is used for tapping both cortex of the screw hole.

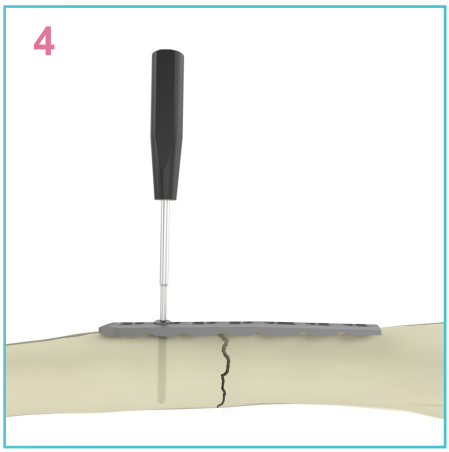


Depth Gauge 0-70 mm (A3200-0129) is used to determine the length of the screw.

Note 1* The hook at the tip of the depth gauge is inserted through the hole and placed at the outer surface of the opposite cortex of bone. Then the tube on the ruler is slid and placed on the plate and the screw is selected by looking at the scale on the ruler.
Note 2* The blue Depth Gauge 0-70 mm (A3200-0129) is used for 3,5 mm & 4,0 mm screws
Note 3* The red Depth Gauge 0-50 mm (A3200-0128) is used for 2,7 mm screws



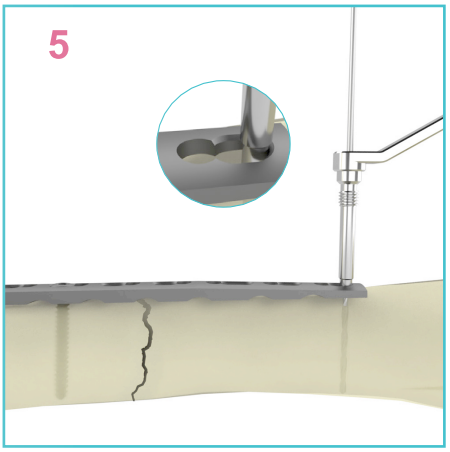
Suitable size screw is chosen and Hexagonal Screwdriver 2,5 mm (A3200-0113) is used to drive it. The plate is fixed on the bone with the screw. The surgeon shall be sure that he placed the screw at the most suitable outer part of the combi screw hole.



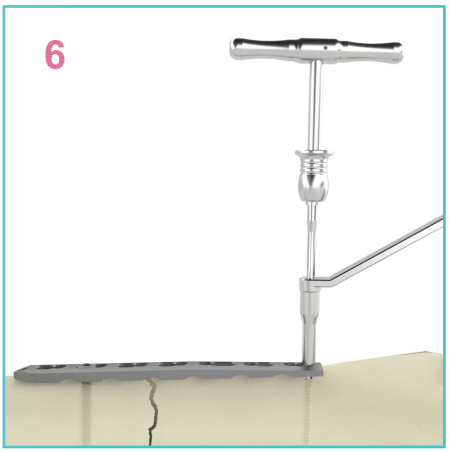
Compression Screw techique

The purpose of the compression technique is to bring the fracture line in the bone as close to each other as possible.

Neutral And Load Drill Guide (A3200-0121) is placed towards the outer side of the nonlocking site of combi hole in load position (as external cover of drill guide is not screwed on it). Drill Bit Ø3,2X130 mm (A3200-0103) is coupled to power drill and through the guide, both cortex of the broken bone is drilled.

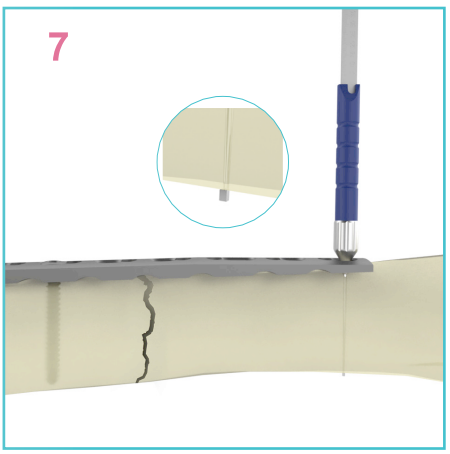


Tap Cancellous 4,0 mm (A3200-0106) is coupled to the T-Handle Quick Coupling (A3200-0125), Neutral And Load Drill Guide (A3200-0121) is turned, 4,0 mm direction of the handpiece is used for tapping both cortexes of the screw hole.

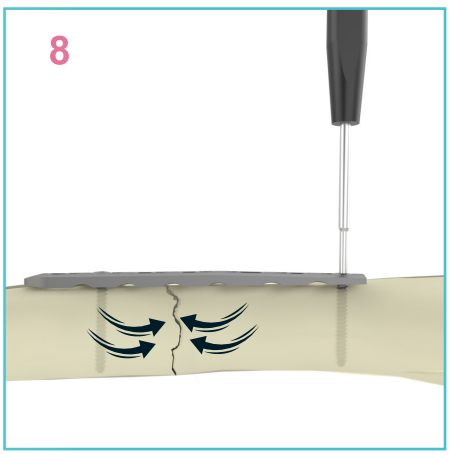


Depth Gauge 0-70 mm (A3200-0129) is used to determine the length of the screw.

Note 1* The hook at the tip of the depth gauge is inserted through the hole and placed at the outer surface of the opposite cortex of bone. Then the tube on the ruler is slid and placed on the plate and the screw is selected by looking at the scale on the ruler.
Note 2* The blue Depth Gauge 0-70 mm (A3200-0129) is used for 3,5 mm & 4,0 mm screws
Note 3* The red Depth Gauge 0-50 mm (A3200-0128) is used for 2,7 mm screws



Suitable size screw is chosen and Hexagonal Screwdriver 2,5 mm (A3200-0113) is used to drive it. The plate is fixed on the bone with the screw. Surgeon shall be sure that he placed the screw at the most suitable outer part of the combi screw hole.



2.7 mm & 3,5 mm Locking Screw Hole Preparation and Measurement

A3200-0122	THREADED DRILL GUIDE (SLEEVE) 2,0 MM	
A3200-0123	THREADED DRILL GUIDE (SLEEVE) 2,7 MM	
A3200-0119	SLEEVE KEY	

For Insertion of 2,7mm locking screws Threaded Drill Guide (Sleeve) 2,0 mm (A3200-0122), Drill Bit Ø2,0X110 mm,Tap For Cortex Screw 2,7mm (A320-0104), T-Handle Quick Coupling (A3200-0125), Hexagonal Screwdriver Shaft 2,0 mm Quick Coupling (A3200-0110), Torque Limiting Handle 0,8 nm (A3200-0126) / Hexagonal Screwdriver 2,0 mm A3200-0112) are used together.

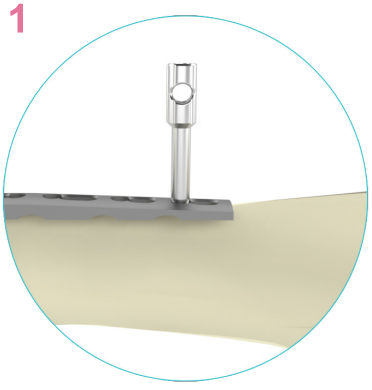
For Insertion of 3,5 mm locking screws Threaded Drill Guide (Sleeve) 2,7 mm (A3200-0123), Drill Bit Ø2,7X130 mm, Tap For Cortex Screw 3,5 mm (A320-0105), T-Handle Quick Coupling (A3200-0125), Hexagonal Screwdriver Shaft 2,5 mm Quick Coupling (A3200-0111), Torque Limiting Handle 1,5 nm (A3200-0127) / Hexagonal Screwdriver 2,5 mm A3200-0113) are used together.

Before inserting the first locking screw, perform anatomical reduction and fix the fracture with lag screw technique, if necessary. After the insertion of a locking screw, compression of the plate will no longer be possible without first loosening the locking screw.

Measurement of screw length;

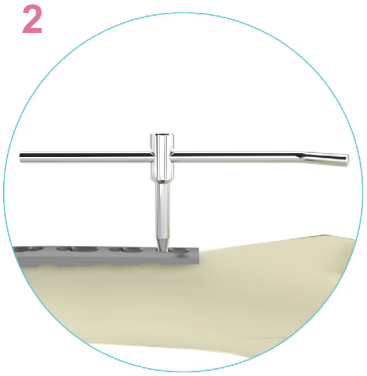
Note 1* The hook at the tip of the depth gauge is inserted through the hole and placed at the outer surface of the opposite cortex of bone. Then the tube on the ruler is slid and placed on the plate and the screw is selected by looking at the scale on the ruler.
Note 2* The blue Depth Gauge 0-70 mm (A3200-0129) is used for 3,5 mm & 4,0 mm screws
Note 3* The red Depth Gauge 0-50 mm (A3200-0128) is used for 2,7 mm screws

1



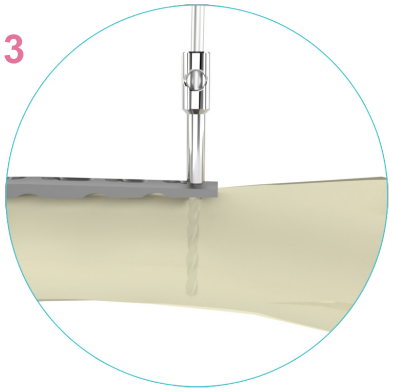
Type & diameter of the screws to be used are determined according to the holes of the plate that is used for fixation of the fracture. Then Threaded Drill Guide (Sleeve) is selected according to the screw (as mentioned before). Drill guide is locked on the plate hole by turning it in the direction of clockwise

2



Sleeve Key (A3200-0119) may be used to turn the Threaded Drill Guide (Sleeve) for better fitting on the plate screw hole.
Note 1* Do not apply excessive turning power by using asleve key, you can damage plate screw holes.
Note 2* Do not drill bone as the sleeve is not properly fitted into the plate hole or if it is loose in its place. Otherwise, you may not lock the screw head and plate hole.

3

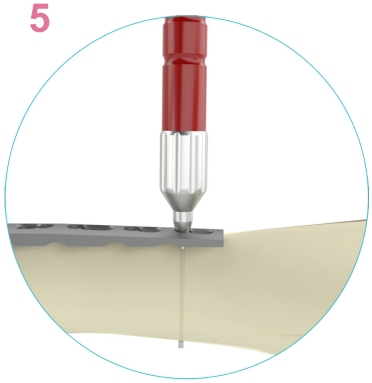


After placing threaded Drill Guide (Sleeve), drill bit is selected according to the size of screw as mentioned above. The drill bit is coupled with a power drill and both cortex of the bone is drilled by taking care of neurovascular structures and soft tissues adjacent to the operation site.

4

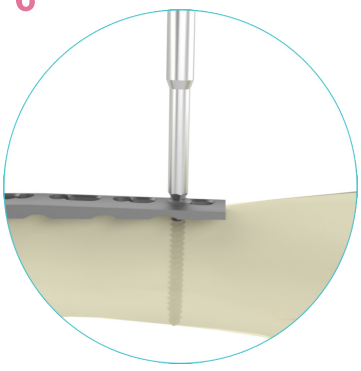
For tapping the screw hole, tap is selected according to the size of screw as mentioned above. Tap is coupled with T-Handle Quick Coupling (A3200-0125) and both cortexes of the bone is tapped for proper screw implantation.
Note* If the bone is osteoporotic this step may not be applied (surgeon decides)

5



For determination of the screw length; the hook at the tip of the depth gauge is inserted through the hole and placed at the outer surface of the opposite cortex of bone. Then the tube on the ruler is slid and placed on the plate and the screw is selected by looking at the scale on the ruler.
The blue Depth Gauge 0-70 mm (A3200-0129) is used for 3,5 mm & 4,0 mm screws
The red Depth Gauge 0-50 mm (A3200-0128) is used for 2,7 mm screws

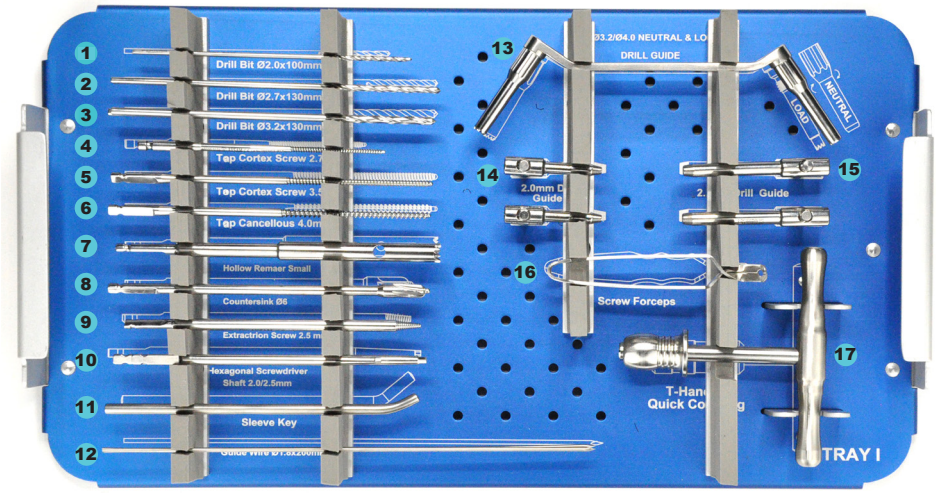
6



2,7 mm screws are driven by Torque Limiting Handle 0,8 nm (A3200-0126) and 3,5mm screws are Torque Limiting Handle 1,5 nm (A3200-0127).
When the screw is properly locked in the plate hole, the Torque Limiting Handle screwdriver turns to idle with a click sound.
Note 1* If the Torque Limiting Handle screwdriver turns to idle, before the screw head is locked in the plate hole; there may be faults during drilling, tapping, screw driving or there may be faults with the direction of screwing. Please check the previous operations again.
Note 2* For small distance screw -plate locking problems you can use Hexagonal Screwdriver 2,0 mm (A3200-0112) / 2,5 mm (A3200-0113)
Note 3* Do not apply excessive screwing force on the screws when you are using hexagonal screw drivers otherwise damage on screw heads may lead implant failure and during extraction of the plate-screw implants you may live serious problems.

1	A32 00-0101	DRILL BIT Ø2,0X110 MM	
2	A3200-0102	DRILL BIT Ø2,7X130 MM	
3	A3200-0103	DRILL BIT Ø3,2X130 MM	
4	A3200-0104	TAP FOR CORTEX SCREW 2,7 MM	
5	A3200-0105	TAP FOR CORTEX SCREW 3,5 MM	
6	A3200-0106	TAP CANCELLOUS 4,0 MM	
7	A3200-0107	HOLLOW REAMER SMALL	
8	A3200-0108	COUNTERSINK Ø6,0	
9	A3200-0109	EXTRACTION SCREW HEXAGONAL 2,5 MM CONICAL	
10	A3200-0110	HEXAGONAL SCREWDRIVER SHAFT 2,0 MM QUICK COUPLING	
10	A3200-0111	HEXAGONAL SCREWDRIVER SHAFT 2,5 MM QUICK COUPLING	
11	A3200-0119	SLEEVE KEY	
12	A3200-0120	GUIDE WIRE Ø1,8X200 MM	
13	A3200-0121	NEUTRAL AND LOAD DRILL GUIDE	
14	A3200-0122	THREADED DRILL GUIDE (SLEEVE) 2,0 MM	
15	A3200-0123	THREADED DRILL GUIDE (SLEEVE) 2,7 MM	

16	A3200-0124	SCREW FORCEPS	
17	A3200-0125	T-HANDLE QUICK COUPLING	
18	A3200-0126	TORQUE LIMITING HANDLE 0,8 NM	
19	A3200-0127	TORQUE LIMITING HANDLE 1,5 NM	
20	A3200-0128	DEPTH GAUGE 0-50 MM	
21	A3200-0129	DEPTH GAUGE 0-70 MM	
22	A3200-0112	HEXAGONAL SCREWDRIVER 2,0 MM	
23	A3200-0113	HEXAGONAL SCREWDRIVER 2,5 MM	
24	A3200-0114	BENDING IRON SMALL RIGHT	
25	A3200-0115	BENDING IRON SMALL LEFT	
26	A3200-0116	SELF-CENTERING BONE HOLDING FOR-CEPS (190 MM)	
27	A3200-0117	SHARP REDUCTION FORCEP (170 MM)	
28	A3200-0118	OBLIQUE REDUCTION FORCEP (190 MM)	


1
2
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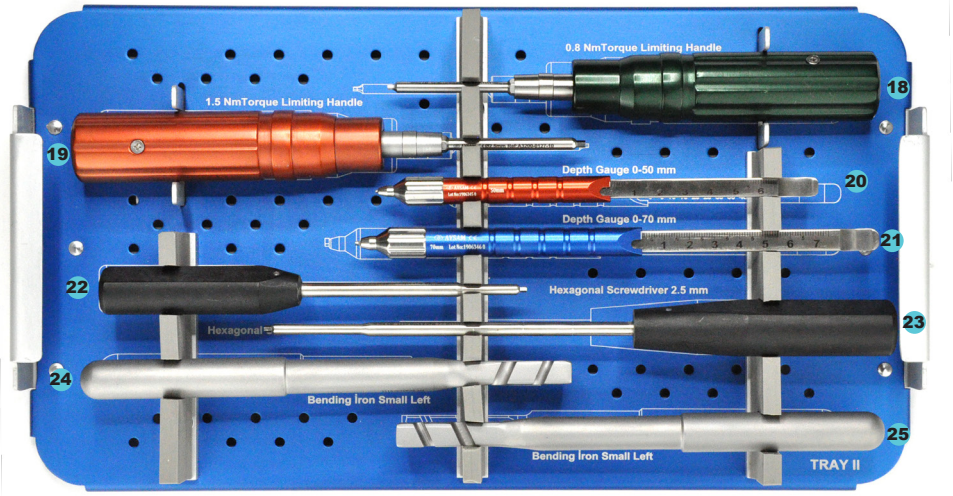
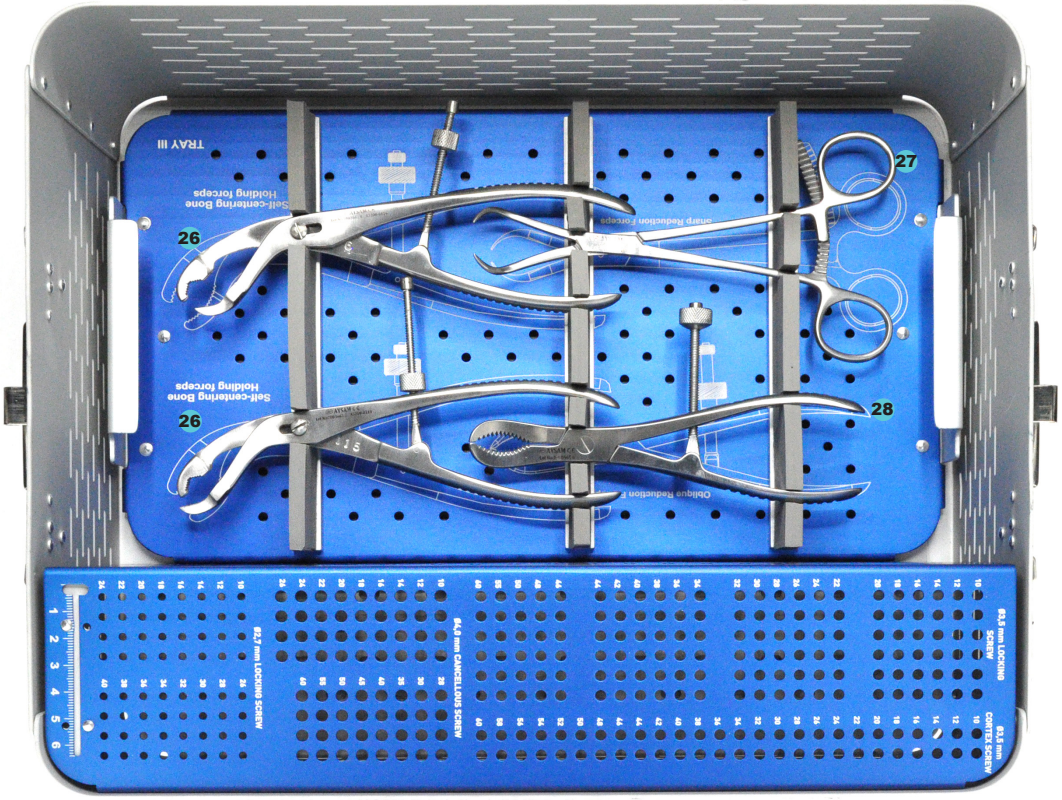
11
12
13
14
15
16
17
Drill Bit Ø2.0x100mm
Drill Bit Ø2.7x130mm
Drill Bit Ø3.2x130mm
Hollow Reamer Small
Countersink Ø6
Hexagonal Screwdriver Shaft 2.0/2.5mm
Sleeve Key
DRILL GUIDE
NEUTRAL
LOAD
Screw Forceps
TRAY I


18
19
20
21
22
23
24
25
0.8 NmTorque Limiting Handle
1.5 NmTorque Limiting Handle
Depth Gauge 0-50 mm
Depth Gauge 0-70 mm
Hexagonal Screwdriver 2.5 mm
Hexagonal
Bending Iron Small Left
Bending Iron Small Left
TRAY II


26
26
27
28
TRAY III
Self-centering Bone holding forceps
Self-centering Bone holding forceps
Sharp Reduction Forceps
Oblique Reduction F
Ø2.7 mm LOCKING SCREW
Ø4.0 mm CANCELLOUS SCREW
Ø3.5 mm LOCKING SCREW
Ø3.5 mm CORTEX SCREW

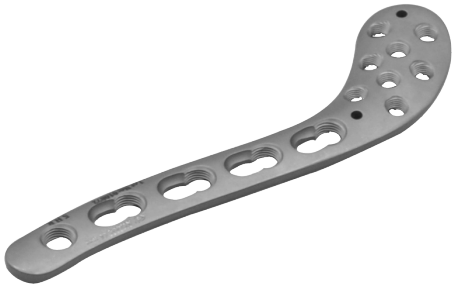
3,5 mm Clavicle Locking Compression Plate

SS	TI	HOLES	SIDE	LENGTH (mm)
A1031906	A1031806	6	Left	70
A1031907	A1031807	7	Left	84
A1031908	A1031808	8	Left	98
A1031909	A1031809	9	Left	112
A1042906	A1042806	6	Right	70
A1042907	A1042807	7	Right	84
A1042908	A1042808	8	Right	98
A1042909	A1042809	9	Right	112

3,5 mm Clavicle Hook Locking Plate

SS	TI	HOLES	SIDE	LENGTH (mm)
A26009141	A26009041	4	Left	63
A26009151	A26009051	5	Left	75
A26009161	A26009061	6	Left	86
A26009171	A26009071	7	Left	97
A26009142	A26009042	4	Right	63
A26009152	A26009052	5	Right	75
A26009162	A26009062	6	Right	86
A26009172	A26009072	7	Right	97

2,7/3,5 mm Distal Clavicle Locking Compression Plate

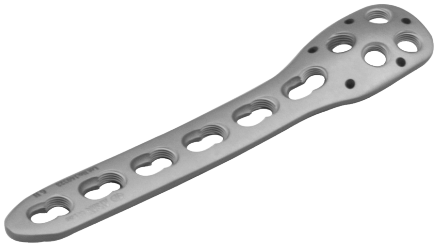


SS	TI	HOLES	SIDE	LENGTH (mm)
A5521903	A1021803	3	Left	66,5
A5521904	A1021804	4	Left	78,7
A5521905	A1021805	5	Left	91,1
A5521906	A1021806	6	Left	103,2
A5521907	A1021807	7	Left	113,8
A5522903	A1022803	3	Right	66,5
A5522904	A1022804	4	Right	78,7
A5522905	A1022805	5	Right	91,1
A5522906	A1022806	6	Right	103,2
A5522907	A1022807	7	Right	113,8

3,5 mm Clavicle Reconstruction Locking Compression Plate

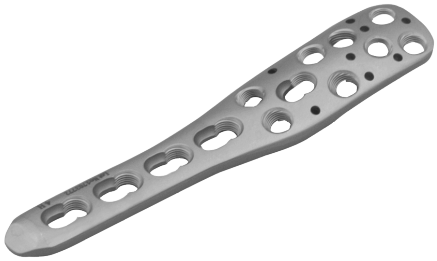
SS	TI	HOLES	SIDE	LENGTH (mm)
A1531806	A1530806	6	Left	94,3
A1531807	A1530807	7	Left	107,8
A1531813	A1530813	8	Left	121
A1531809	A1530809	9	Left	133
A1531906	A1530906	6	Right	94,3
A1531907	A1530907	7	Right	107,8
A1531913	A1530913	8	Right	121
A1531910	A1530910	9	Right	133

3,5 mm Proximal Humerus Locking Compression Plate 1



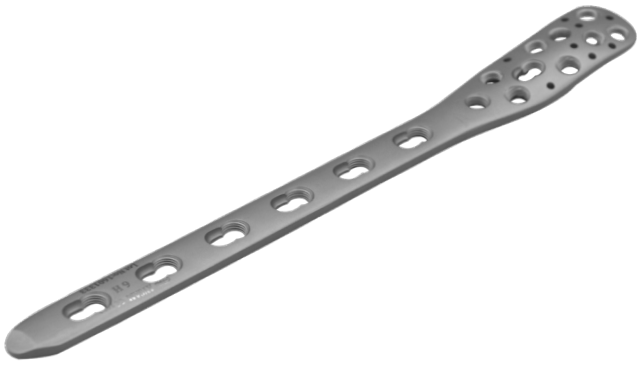
SS	TI	HOLES	LENGTH (mm)
A1620903	A1620803	3	61,1
A1620904	A1620804	4	73,1
A1620905	A1620805	5	85,1
A1620906	A1620806	6	97,1
A1620907	A1620807	7	109,1
A1620908	A1620808	8	121,1

3,5 mm Proximal Humerus Locking Compression Plate 2



SS	TI	HOLES	LENGTH (mm)
A1630903	A1630803	3	87
A1630904	A1630804	4	99
A1630905	A1630805	5	111
A1630906	A1630806	6	123
A1630907	A1630807	7	135
A1630908	A1630808	8	147
A1630909	A1630809	9	159

3,5 mm Proximal Humerus Locking Compression Plate 3

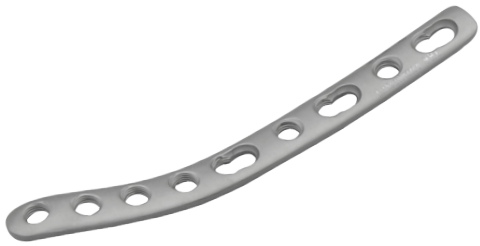


SS	TI	HOLES	LENGTH (mm)
A1640903	A1640803	3	122
A1640904	A1640804	4	140
A1640905	A1640805	5	158
A1640906	A1640806	6	176
A1640907	A1640807	7	194

3,5 mm Cloverleaf Locking Plate

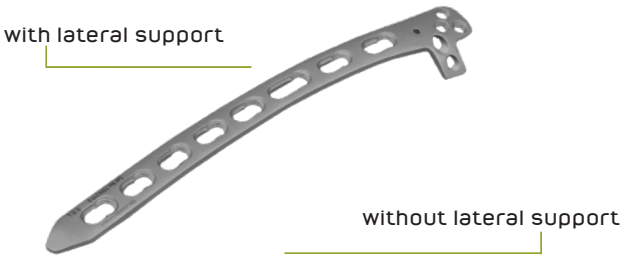
SS	TI	HOLES	LENGTH (mm)
A101 02 270 0003	A111 02 270 0003	3	88,1
A101 02 270 0004	A111 02 270 0004	4	104,1
A101 02 270 0005	A111 02 270 0005	5	120,1
A101 02 270 0006	A111 02 270 0006	6	136,1
A101 02 270 0007	A111 02 270 0007	7	152,1
A101 02 270 0008	A111 02 270 0008	8	168,1

3,5 mm Distal Lateral Humerus Locking Plate



SS	TI	HOLES	SIDE	LENGTH (mm)
A5248105	A5238105	5	Left	56,5
A5248107	A5238107	7	Left	83,5
A5248109	A5238109	9	Left	108,5
A5248111	A5238111	11	Left	133,5
A5248113	A5238113	13	Left	158,5
A5248115	A5238115	15	Left	183,5
A5248205	A5238205	5	Right	56,5
A5248207	A5238207	7	Right	83,5
A5248209	A5238209	9	Right	108,5
A5248211	A5238211	11	Right	133,5
A5248213	A5238213	13	Right	158,5
A5248215	A5238215	15	Right	183,5

2,7/3,5 mm Distal Humerus Dorsolateral Locking Plate

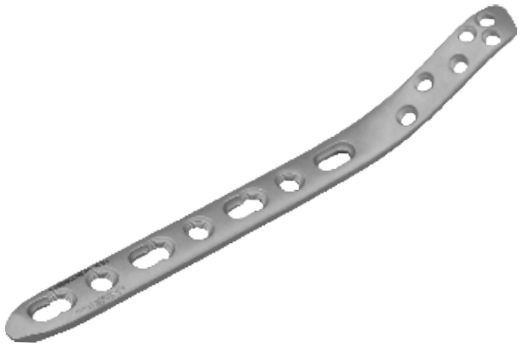


SS	TI	HOLES	SIDE	LENGTH (mm)
A9248105	A9238105	5	Left	103,9
A9248107	A9238107	7	Left	126,9
A9248109	A9238109	9	Left	152,9
A9248111	A9238111	11	Left	178,9
A9248113	A9238113	13	Left	204,9
A9248205	A9238205	5	Right	103,9
A9248207	A9238207	7	Right	126,9
A9248209	A9238209	9	Right	152,9
A9248211	A9238211	11	Right	178,9
A9248213	A9238213	13	Right	204,9

3,5 mm Distal Medial Humerus Locking Plate 1

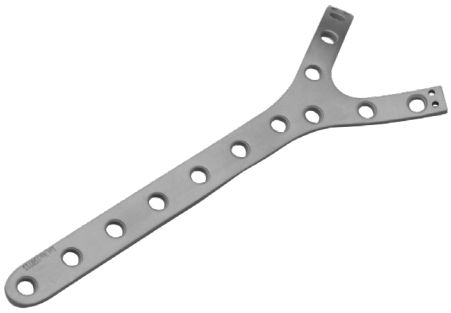
SS	TI	HOLES	LENGTH (mm)
A5249206	A5249106	6	69,5
A5249208	A5249108	8	94
A5249210	A5249110	10	114
A5249212	A5249112	12	138,5
A5249214	A5249114	14	163
A5249216	A5249116	16	184

2,7/3,5 mm Distal Medial Humerus Locking Plate 2



SS	TI	HOLES	SIDE	LENGTH (mm)
A1015279106	A1115278106	6	Left	84,8
A1015279108	A1115278108	8	Left	109,3
A1015279110	A1115278110	10	Left	133,8
A1015279112	A1115278112	12	Left	158,3
A1015279114	A1115278114	14	Left	182,8
A1015279116	A1115278116	16	Left	207,3
A1015279206	A1115278206	6	Right	84,8
A1015279208	A1115278208	8	Right	109,3
A1015279210	A1115278210	10	Right	133,8
A1015279212	A1115278212	12	Right	158,3
A1015279214	A1115278214	14	Right	182,8
A1015279216	A1115278216	16	Right	207,3

3,5 mm Y-Distal Humerus Locking Plate 1



SS	TI	HOLES	SIDE	LENGTH (mm)
A5319103	A5318103	3	Left	91,4
A5319104	A5318104	4	Left	106,4
A5319105	A5318105	5	Left	121,4
A5319106	A5318106	6	Left	136,4
A5319107	A5318107	7	Left	151,4
A5319108	A5318108	8	Left	166,4
A5319203	A5318203	3	Right	91,4
A5319204	A5318204	4	Right	106,4
A5319205	A5318205	5	Right	121,4
A5319206	A5318206	6	Right	136,4
A5319207	A5318207	7	Right	151,4
A5319208	A5318208	8	Right	166,4

3,5 mm Olecranon Locking Compression Plate 1

SS	TI	HOLES	SIDE	LENGTH (mm)
A1651904	A1651804	4	Left	128,8
A1651906	A1651806	6	Left	153,7
A1651908	A1651808	8	Left	179,8
A1662904	A1662804	4	Right	128,8
A1662906	A1662806	6	Right	153,7
A1662908	A1662808	8	Right	179,8

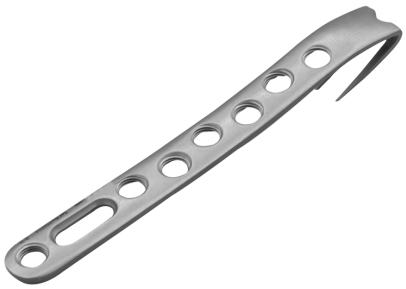
3,5 mm Olecranon Locking Compression Plate 2

SS	TI	HOLES	SIDE	LENGTH (mm)
A22024130	A22014130	3	Left	67,2
A22024140	A22014140	4	Left	79,6
A22024150	A22014150	5	Left	92,1
A22024160	A22014160	6	Left	104,6
A22024170	A22014170	7	Left	117
A22024180	A22014180	8	Left	129,4
A22024230	A22014230	3	Right	67,2
A22024240	A22014240	4	Right	79,6
A22024250	A22014250	5	Right	92,1
A22024260	A22014260	6	Right	104,6
A22024270	A22014270	7	Right	117
A22024280	A22014280	8	Right	129,4

3,5 mm Metaphysis Locking Compression Plate

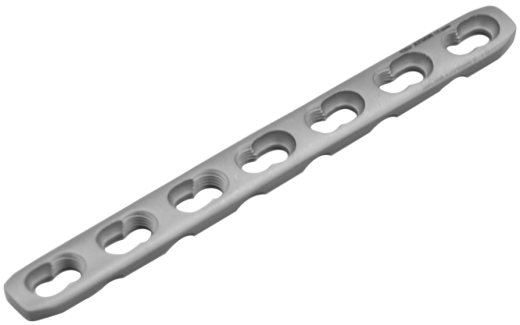
SS	TI	HOLES	LENGTH (mm)
A1060906	A1060806	6	86
A1060907	A1060807	7	99
A1060908	A1060808	8	112
A1060909	A1060809	9	125
A1060911	A1060811	11	151
A1060913	A1060813	13	177

3,5 mm Locking Compression Hook Plate



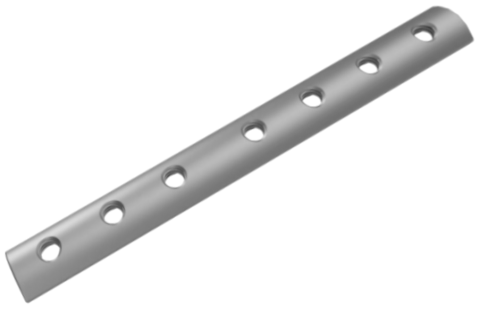
SS	TI	HOLES	LENGTH (mm)
A1610905	A1610805	5	64,4
A1610906	A1610806	6	72,9
A1610907	A1610807	7	81,4
A1610908	A1610808	8	89,9
A1610909	A1610809	9	98,4
A1610910	A1610810	10	106,9
A1610911	A1610811	11	115,4
A1610912	A1610812	12	123,9
A1610913	A1610813	13	132,4

3,5 mm Locking Compression Plate



SS	TI	HOLES	LENGTH (mm)
A1840904	A1820804	4	58
A1840905	A1820805	5	72
A1840906	A1820806	6	86
A1840907	A1820807	7	100
A1840908	A1820808	8	114
A1840909	A1820809	9	128
A1840910	A1820810	10	142
A1840911	A1820811	11	156
A1840912	A1820812	12	170

1/3 Tubular Locking Plate



SS	TI	HOLES	LENGTH (mm)
A5051004	A5050004	4	54
A5051005	A5050005	5	66
A5051006	A5050006	6	78
A5051007	A5050007	7	90
A5051008	A5050008	8	102
A5051009	A5050009	9	114
A5051010	A5050010	10	126
A5051011	A5050011	11	138
A5051012	A5050012	12	150
A5051013	A5050013	13	162

3,5 mm Reconstruction Locking Plate

SS	TI	HOLES	LENGTH (mm)
A1050904	A1050804	4	48
A1050905	A1050805	5	60
A1050906	A1050806	6	72
A1050907	A1050807	7	84
A1050908	A1050808	8	96
A1050909	A1050809	9	108
A1050910	A1050810	10	120
A1050911	A1050811	11	132
A1050912	A1050812	12	144

3,5 mm Ulna/Radius Anatomic Locking Plate

SS	TI	HOLES	LENGTH (mm)
A1822005	A1821005	5	69
A1822006	A1821006	6	82
A1822007	A1821007	7	95,4
A1822008	A1821008	8	108,8
A1822009	A1821009	9	121,2

3,5 mm Curved Reconstruction Locking Plate

SS	TI	HOLES	LENGTH (mm)
A101 02 221 0004	A111 02 221 0004	4	61,4
A101 02 221 0005	A111 02 221 0005	5	77,8
A101 02 221 0006	A111 02 221 0006	6	93,7
A101 02 221 0007	A111 02 221 0007	7	109,4
A101 02 221 0008	A111 02 221 0008	8	125,0
A101 02 221 0009	A111 02 221 0009	9	140,2
A101 02 221 0010	A111 02 221 0010	10	155,0
A101 02 221 0011	A111 02 221 0011	11	169,9
A101 02 221 0012	A111 02 221 0012	12	184,7
A101 02 221 0013	A111 02 221 0013	13	198,0
A101 02 221 0014	A111 02 221 0014	14	212,0

2,7/3,5 mm Distal Radius Locking Plate 1

SS	TI	HOLES	SIDE	LENGTH (mm)
A5159303	A5159103	3	Left	54
A5159304	A5159104	4	Left	62
A5159305	A5159105	5	Left	70
A5159306	A5159106	6	Left	78
A5159307	A5159107	7	Left	86
A5159403	A5159203	3	Right	54
A5159404	A5159204	4	Right	62
A5159405	A5159205	5	Right	70
A5159406	A5159206	6	Right	78
A5159407	A5159207	7	Right	86

2,7/3,5 mm Distal Radius Locking Plate 2

SS	TI	HOLES	SIDE	LENGTH (mm)
A5169303	A5169103	3	Left	63,2
A5169304	A5169104	4	Left	71,2
A5169305	A5169105	5	Left	79,2
A5169306	A5169106	6	Left	87,2
A5169307	A5169107	7	Left	95,2
A5169403	A5169203	3	Right	63,2
A5169404	A5169204	4	Right	71,2
A5169405	A5169205	5	Right	79,2
A5169406	A5169206	6	Right	87,2
A5169407	A5169207	7	Right	95,2

3,5 mm Locking Compression T-Plate, Right- (3 Holes on Head)

SS	TI	HOLES	LENGTH (mm)
A1480903	A1480803	3	49
A1480904	A1480804	4	61
A1480905	A1480805	5	73
A1480906	A1480806	6	85

3,5 mm Locking Compression T-Plate Oblique-Angled

SS	TI	HOLES	SIDE	LENGTH (mm)
A1511903	A1511803	3	Left	53
A1511904	A1511804	4	Left	66,5
A1511905	A1511805	5	Left	80
A1511906	A1511806	6	Left	93,5
A1522903	A1522803	3	Right	53
A1522904	A1522804	4	Right	66,5
A1522905	A1522805	5	Right	80
A1522906	A1522806	6	Right	93,5

3,5 mm Locking Compression T-Plate, Right-Angled (4 Holes on Head)

SS	TI	HOLES	LENGTH (mm)
A1480930	A1480830	3	46
A1480940	A1480840	4	57
A1480950	A1480850	5	68
A1480960	A1480860	6	80

2,7 mm Radius Head Locking Plate

SS	TI	HOLES	LENGTH (mm)
A5159603	A5159503	3	33
A5159605	A5159505	5	47

2,7 mm Hallux-Valgus Locking Plate

TI	HOLES	SIDE	LENGTH (mm)
A312 02 062 0402	2	90° Left	33
A312 02 062 0403	3	90° Left	35
A312 02 062 0404	4	90° Left	37
A312 02 062 0202	2	110° Left	33
A312 02 062 0203	3	110° Left	35
A312 02 062 0204	4	110° Left	37
A312 02 061 0302	2	90° Right	33
A312 02 061 0303	3	90° Right	35
A312 02 061 0304	4	90° Right	37
A312 02 061 0102	2	110° Right	33
A312 02 061 0103	3	110° Right	35
A312 02 061 0104	4	110° Right	37

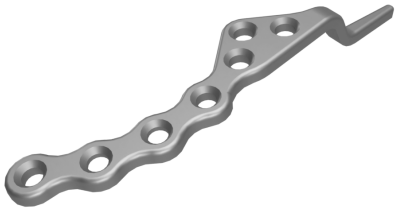
Attachment Locking Plate Small

TI	TYPE
A110 02 190 0006	Small

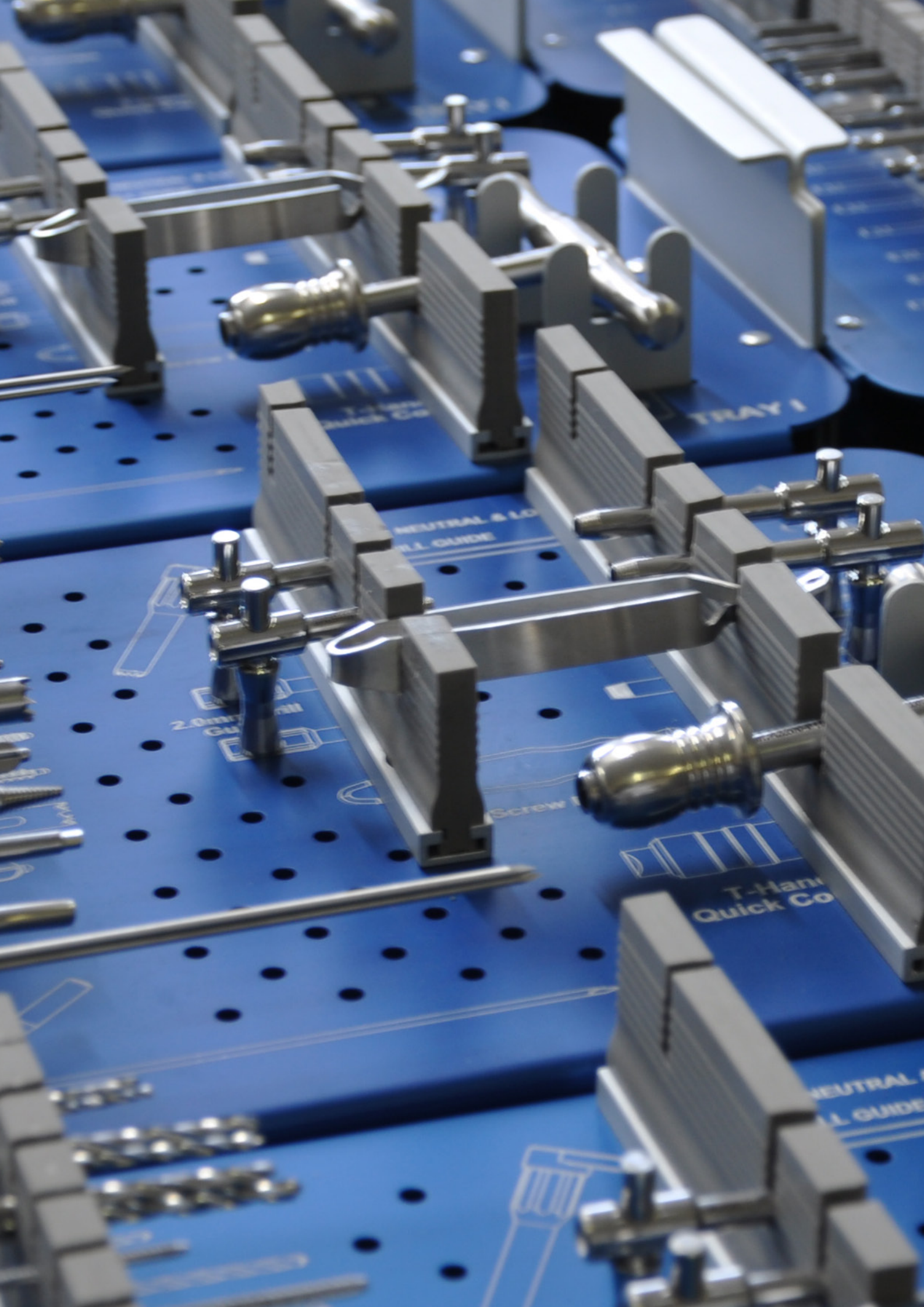
3,5 mm Clavicle Plate

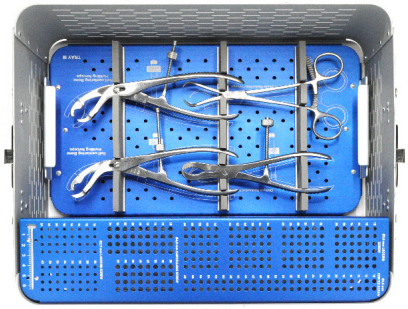
SS	TI	HOLES	SIDE	LENGTH (mm)
A5089106	A5088106	6	Left	70
A5089107	A5088107	7	Left	84
A5089108	A5088108	8	Left	98
A5089109	A5088109	9	Left	112
A5089206	A5088206	6	Right	70
A5089207	A5088207	7	Right	84
A5089208	A5088208	8	Right	98
A5089209	A5088209	9	Right	112

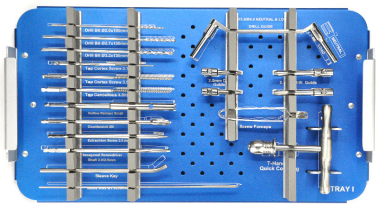
3,5 mm Clavicle Hook Plate

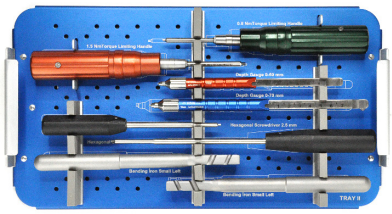


SS	TI	HOLES	SIDE	LENGTH (mm)
A5269104	A5268104	4	Left	63
A5269105	A5268105	5	Left	75
A5269106	A5268106	6	Left	86
A5269107	A5268107	7	Left	97
A5269204	A5268204	4	Right	63
A5269205	A5268205	5	Right	75
A5269206	A5268206	6	Right	86
A5269207	A5268207	7	Right	97









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