

Surgical Technique

5.0mm Wise-Lock Large Fragment System

about us

Auxein Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements



Guidelines

This publication sets forth detailed recommended procedures for using Auxein Medical devices and instruments.

It offers guidance that needs to be heeded. However, with any such technical guide, each surgeon must consider the unique needs of each patient and make appropriate adjustments when and as required.

A workshop training under DAIS Academy by Auxein will provide assistance prior to first surgery. It is vital to know that all non-sterile devices must be cleaned and sterilized before use.

Moreover, multi-component instruments must be disassembled for cleaning. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Please NOTE that all the bone screws referenced in this document here are not approved for screw attachment or fixation in the areas not mentioned in this publication.

Warning:

This description is not sufficient for immediate application of the instrumentation. Instruction by a surgeon experienced in handling this instrumentation is highly recommended.



General Indications

Wise-Lock Implants are intended for temporary fixation, correction or stabilization of bones in various anatomical regions.

Specific Indications

4.5/5.0mm Wise-Lock Medial Proximal Tibia Plate

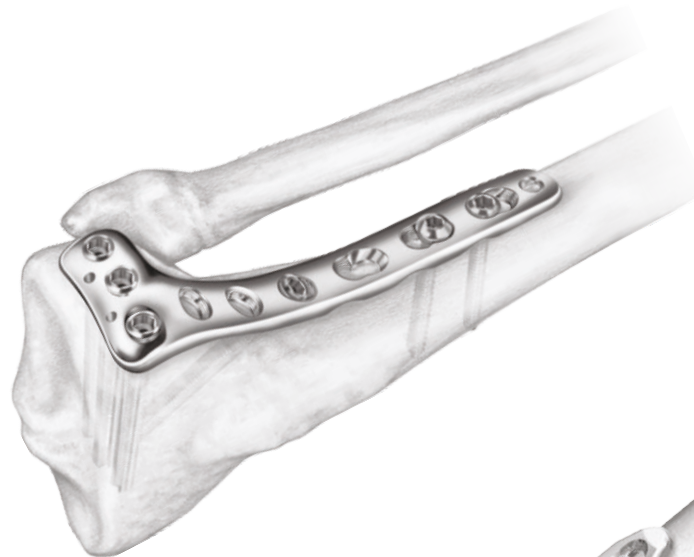
- The plate is intended for complex fractures of Proximal tibia



4.5/5.0mm Wise-Lock Proximal Tibia Plate

The Auxein 4.5 mm Wise-Lock Proximal Tibia Plate is intended for treatment of osteopenic bone, tibial osteotomies, nonunions, malunions and fractures of the proximal tibia including:

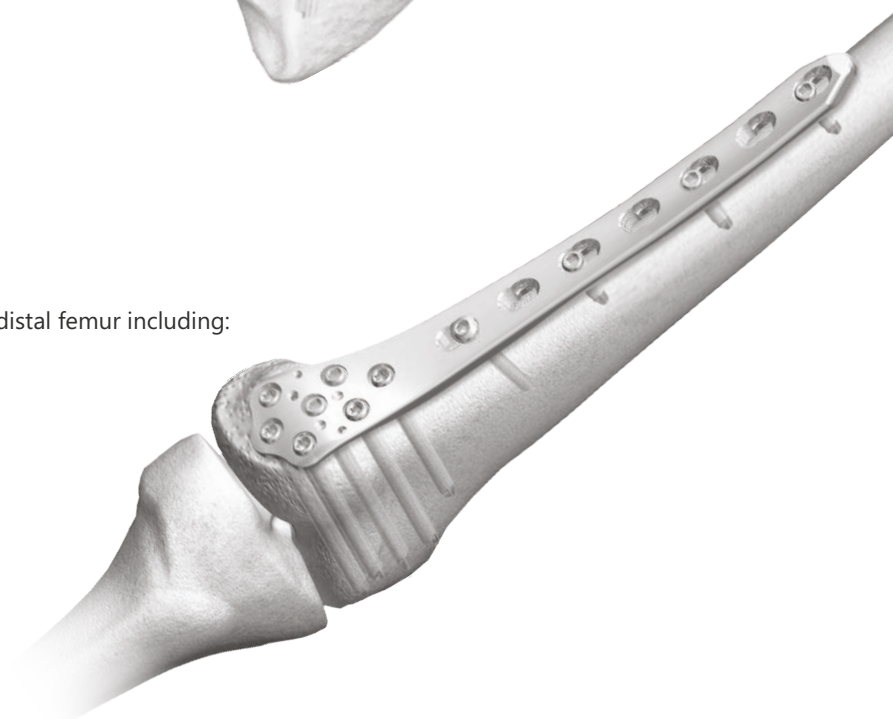
- Simple, comminuted fractures
- Lateral wedge fractures
- Depression medial wedge fractures
- Bicondylar combination of lateral wedge and depression fractures
- Periprosthetic fractures
- Proximal fractures with associated shaft fractures



4.5/5.0mm Wise-Lock Distal Femur Plate

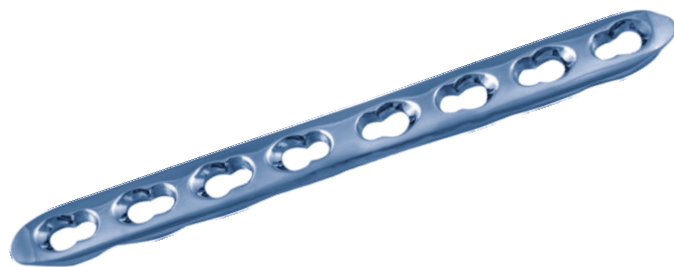
This plate is indicated for stabilization of fractures of distal femur including:

- Distal shaft fractures
- Supracondylar fractures
- Intra-articular fractures
- Periprosthetic fractures

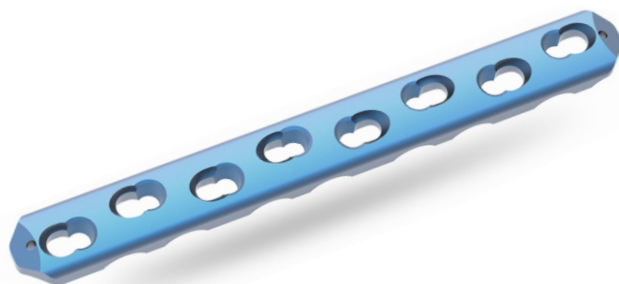


**4.5/5.0mm Wise-Lock Narrow Dynamic
Compression Plate with LC under cuts**

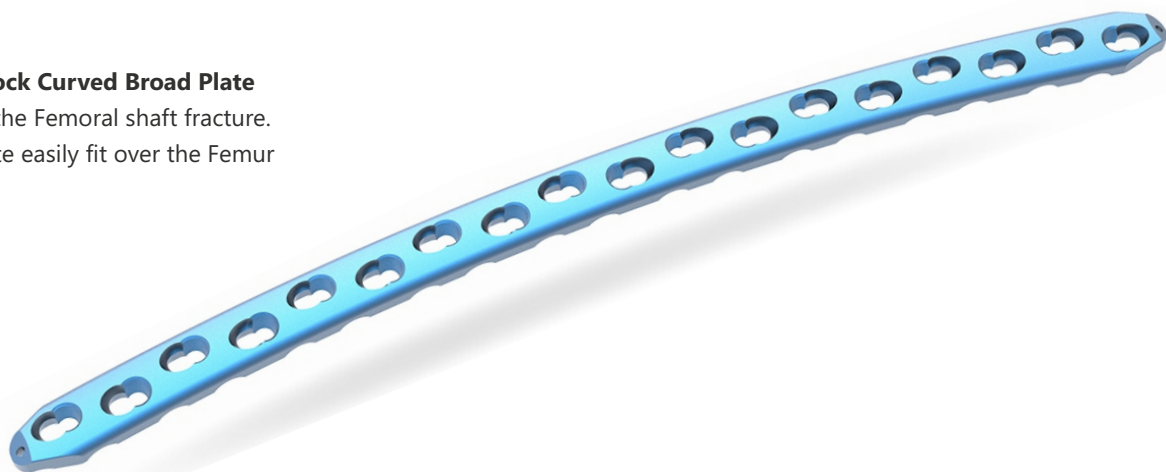
This plate is indicated for fixation of various long bones, such as the humerus, femur and tibia and for use in fixation of peri-prosthetic fractures, osteopenic bone and fixation of non-unions or malunions in adult patients.

**4.5/5.0mm Wise-Lock Broad Dynamic
Compression Plate with LC under cuts**

It is indicated for fixation of various long bones, such as the humerus, femur and tibia and for use in fixation of peri-prosthetic fractures, osteopenic bone and fixation of non-unions or malunions in adult patients.

**4.5/5.0mm Wise-Lock Curved Broad Plate**

It is Indicated to fix the Femoral shaft fracture.
The curve in the plate easily fit over the Femur



Fixation Principles

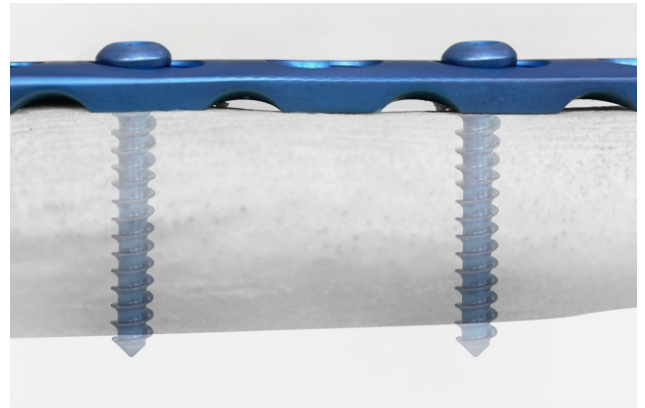
The following points distinguish treatment using locking screw technology from conventional plating techniques:

- It enables fracture treatment using compression plating with conventional cortical or cancellous bone screws
- Wise-Lock plate can also be used as an internal fixator and permits stable bridging over shattered zones
- The Wise-Lock system permits the combination of conventional and locking screws
- Unicortical locking screw permits better vascularity

Note: The Wise-Lock system applies to many different plate types and is therefore suitable for a large number of fracture types. For that reason, this technique guide does not deal with any specific fracture type.

Bicortical screw fixation

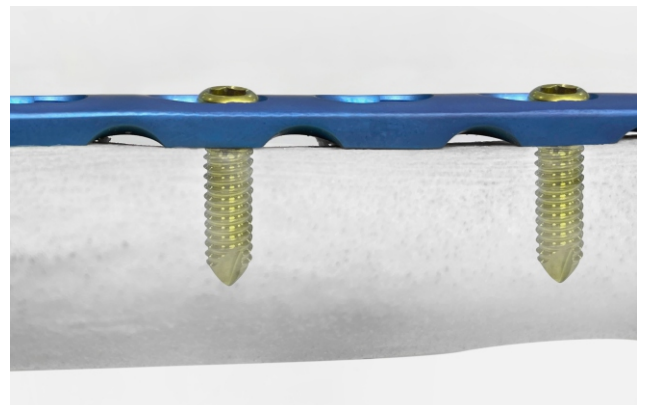
Bicortical screw fixation has long been the traditional method of compressing a plate to the bone where friction between the plate and the bone maintains stability. Screw stability and load transfer are accomplished at two points along the screw: the near and far cortices.



Unicortical screw fixation

Unicortical locking screws provide stability and load transfer only at the near cortex due to the threaded connection between the plate and the screw. Screw stability and load transfer are accomplished at two points along the screw: the screwhead and near cortex. Because the screw is locked to the plate, fixation does not rely solely on the pullout strength of the screw or on maintaining friction between the plate and the bone.

- a. Bicortical screws require two (2) cortices to achieve stability.
- b. Unicortical screws utilize the Wise-Lock screw and the near cortex to achieve stability.

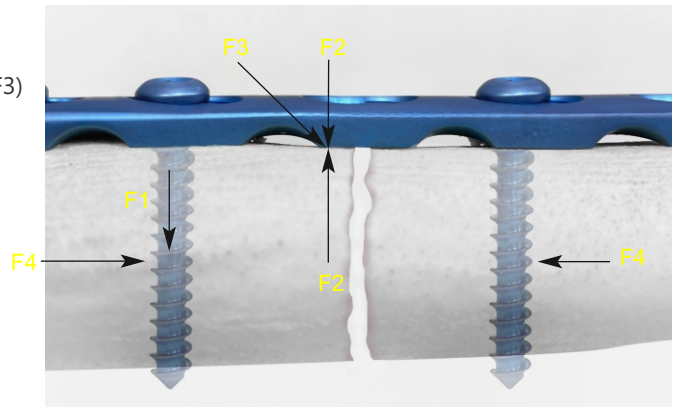


The following examples show the biomechanical features of conventional plating techniques, locked or bridge plating techniques, and a combination of both.

Conventional plating

Absolute stability

The tensile force (F1) originating from tightening the screws presses the plate onto the bone (F2). The developing friction (F3) between the plate and the bone leads to stable plate fixation. To ensure absolute stability, the friction resistance must be higher than the axial forces (F4) arising during rehabilitation.



Anatomic contouring of the plate

The aim of internal fixation is anatomic reduction, particularly in articular fractures. Therefore, the plate must be contoured to the shape of the bone.

Lag screw

Interfragmentary compression is accomplished by using a lag screw. This is particularly important in intra-articular fractures which require a precise reduction of the joint surfaces. Lag screws can be angled in the plate hole, allowing placement of the screw perpendicular to the fracture line.

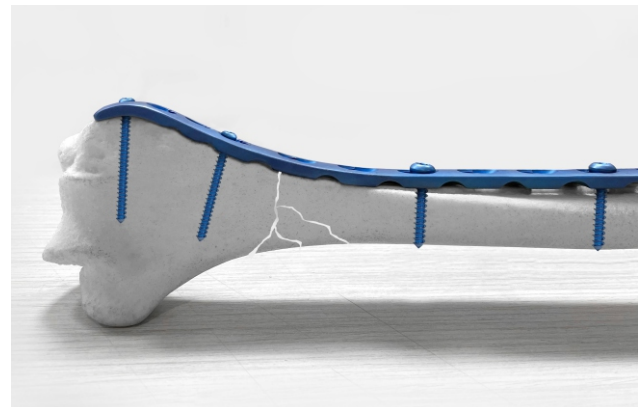
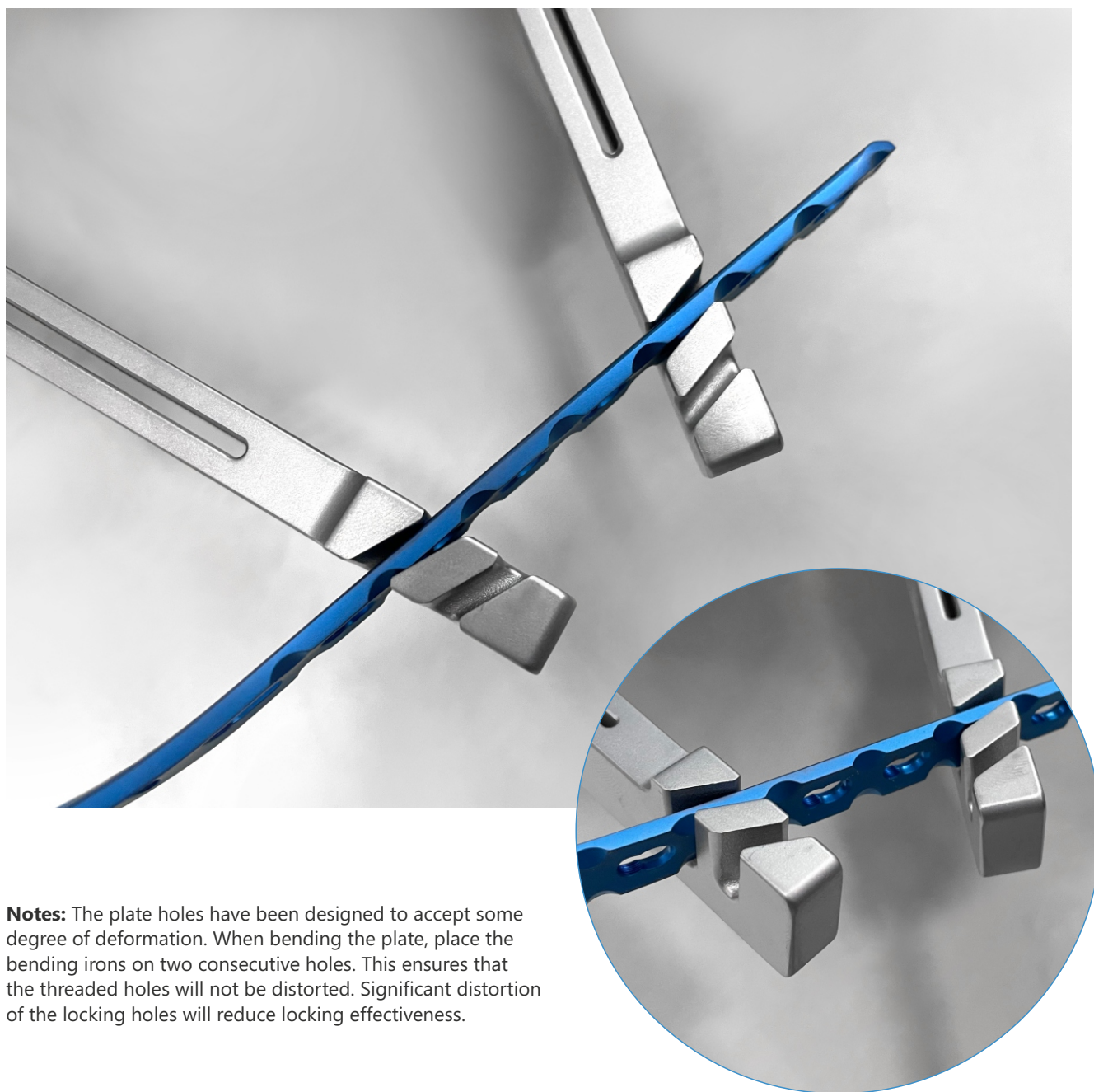


Plate selection

The plates are available in various lengths. If necessary, use a bending template to determine plate length.

Contouring

Use the bending instruments to contour the Wise-Lock plate to the anatomy.



Notes: The plate holes have been designed to accept some degree of deformation. When bending the plate, place the bending irons on two consecutive holes. This ensures that the threaded holes will not be distorted. Significant distortion of the locking holes will reduce locking effectiveness.

Screw Insertion

Determine whether standard 4.5 mm cortical screws, 6.5 mm cancellous screws or 5.0 mm Wise-Lock screws will be used for fixation. A combination of all may be used.

Note: If a combination of cortical, cancellous and Wise-Lock screws is used, a standard screw should be used first to pull the plate to the bone.

Warning: If a Wise-Lock screw is used first, care should be taken to ensure that the plate is held securely to the bone to avoid spinning of the plate about the bone.

Insertion of a cortical or cancellous bone screw

Use the 4.5 mm universal drill guide for an eccentric (compression) or neutral (buttress) insertion of cortical screws.

Neutral insertion of a standard screw

When pressing the universal drill guide into the DCU portion of the Wise-Lock plate, it will center itself and allow neutral predrilling.



Neutral position

Dynamic compression, eccentric insertion of a cortical screw

To drill a hole for dynamic compression, place the universal drill guide eccentrically at the edge of the DCU portion of the Wise-Lock plate hole, without applying pressure. Tightening of the cortical screws will result in dynamic compression.



Dynamic compression

Drill a hole through the drill guide using a 3.2mm Drill bit.



Use a depth gauge to measure the required screw length.



Select the Screw of appropriate length as per measurement and insert it using the Screwdriver.



Insertion of 5.0 mm Wise-Lock screws

Reminder: The Wise-Lock screw is not a lag screw. Use standard screws when requiring a precise anatomical reduction (e.g., joint surfaces) or interfragmentary compression. Before inserting the first Wise-Lock screw, perform anatomical reduction and fix the fracture with lag screws, if necessary. After the insertion of Wise-Lock screws, an anatomical reduction will no longer be possible without loosening the Wise-Lock screw.

Screw the 4.3 mm threaded drill guide into an Wise-Lock plate hole until fully seated.



Note: Since the direction of a Wise-Lock screw is determined by plate design, final screw position may be verified with a K-wire prior to insertion. This becomes especially important when the plate has been contoured or applied in metaphyseal regions around joint surfaces.

Warning: Do not try to bend the plate using the threaded drill guide because damage may occur to the plate hole threads.



Use the 4.3 mm drill bit to drill the desired depth.



Remove the threaded drill guide and use the depth gauge to determine screw length.

Insert the Wise-Lock screw under power using a 4.0Nm torque limiting attachment and screwdriver shaft.

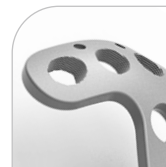
Note: Recheck each Wise-Lock screw before closing to verify that the screws are securely locked to the plate. Screwheads must be flush with the plate in the locked position before they can be considered fully seated.

Warning: Always use a torque limiting attachment (TLA) when using power to insert Wise-Lock screws.



4.5/5.0mm Wise-Lock Proximal Tibia Plate


Round
Locking Hole



Compression and
Locking Hole



Holes	Left Direction		Right Direction	
	Stainless Steel	Titanium	Stainless Steel	Titanium
4	749.104L	TI-749.104L	749.104R	TI-749.104R
6	749.106L	TI-749.106L	749.106R	TI-749.106R
8	749.108L	TI-749.108L	749.108R	TI-749.108R
10	749.110L	TI-749.110L	749.110R	TI-749.110R
12	749.112L	TI-749.112L	749.112R	TI-749.112R
14	749.114L	TI-749.114L	749.114R	TI-749.114R

4.5/5.0mm Wise-Lock Medial Proximal Tibia Plate

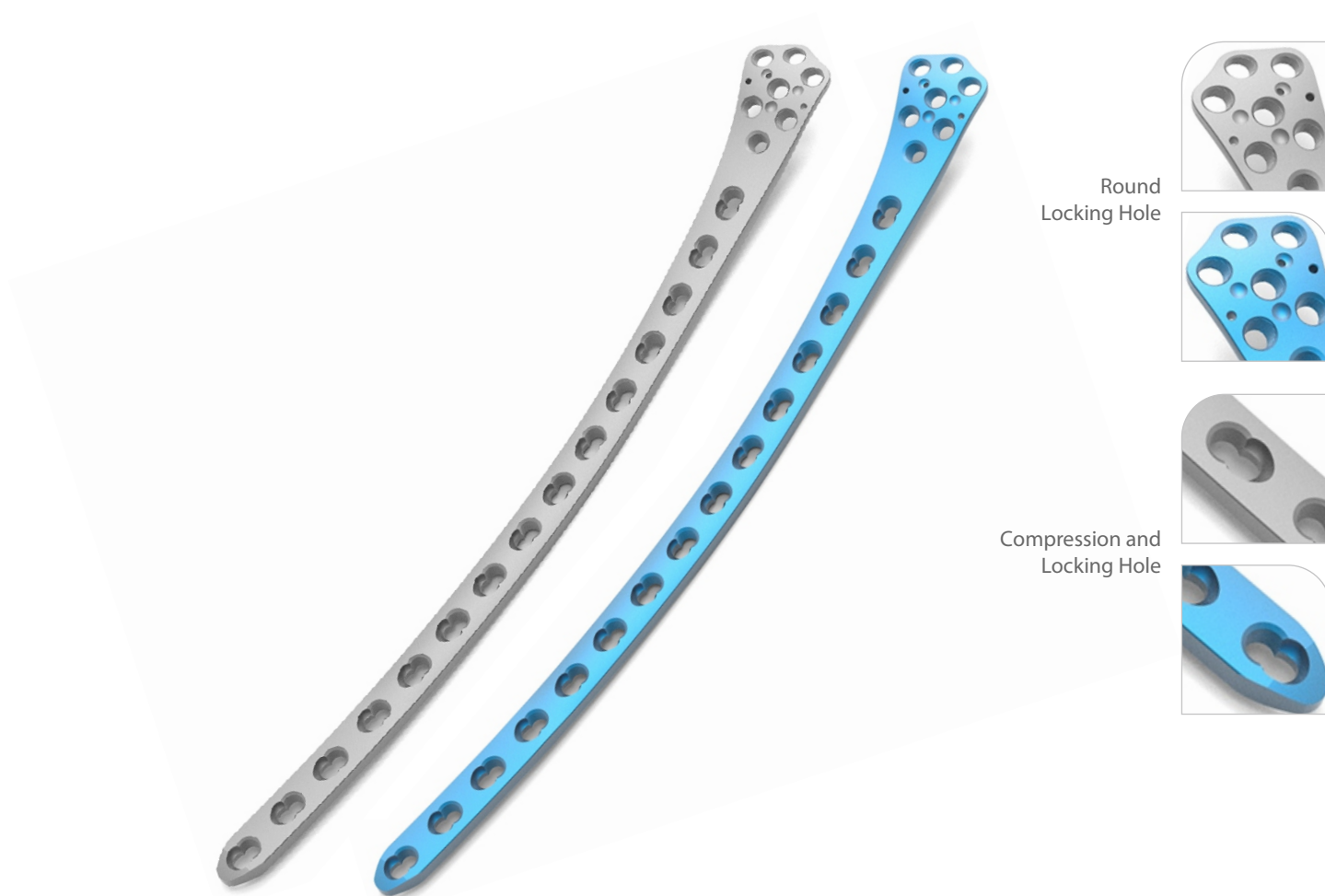

Round
Locking Hole



Compression and
Locking Hole



Holes	Left Direction		Right Direction	
	Stainless Steel	Titanium	Stainless Steel	Titanium
4	747.204L	TI-747.204L	747.204R	TI-747.204R
6	747.206L	TI-747.206L	747.206R	TI-747.206R
8	747.208L	TI-747.208L	747.208R	TI-747.208R
10	747.210L	TI-747.210L	747.210R	TI-747.210R
12	747.212L	TI-747.212L	747.212R	TI-747.212R
14	747.214L	TI-747.214L	747.214R	TI-747.214R
16	747.216L	TI-747.216L	747.216R	TI-747.216R

4.5/5.0mm Wise-Lock Distal Femur Plate


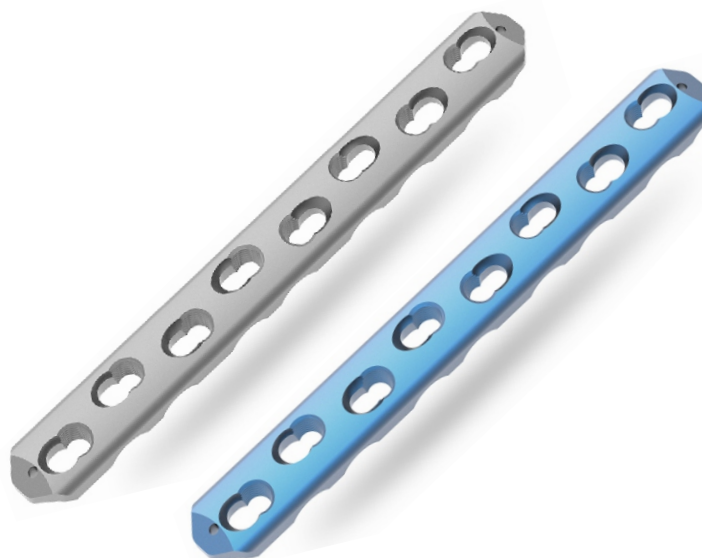
Holes	Left Direction		Right Direction	
	Stainless Steel	Titanium	Stainless Steel	Titanium
5	748.105L	TI-748.105L	748.105R	TI-748.105R
7	748.107L	TI-748.107L	748.107R	TI-748.107R
9	748.109L	TI-748.109L	748.109R	TI-748.109R
11	748.111L	TI-748.111L	748.111R	TI-748.111R
13	748.113L	TI-748.113L	748.113R	TI-748.113R
15	748.115L	TI-748.115L	748.115R	TI-748.115R

4.5/5.0mm Wise-Lock Narrow Dynamic Compression Plate with LC under cuts


Compression and
Locking Hole



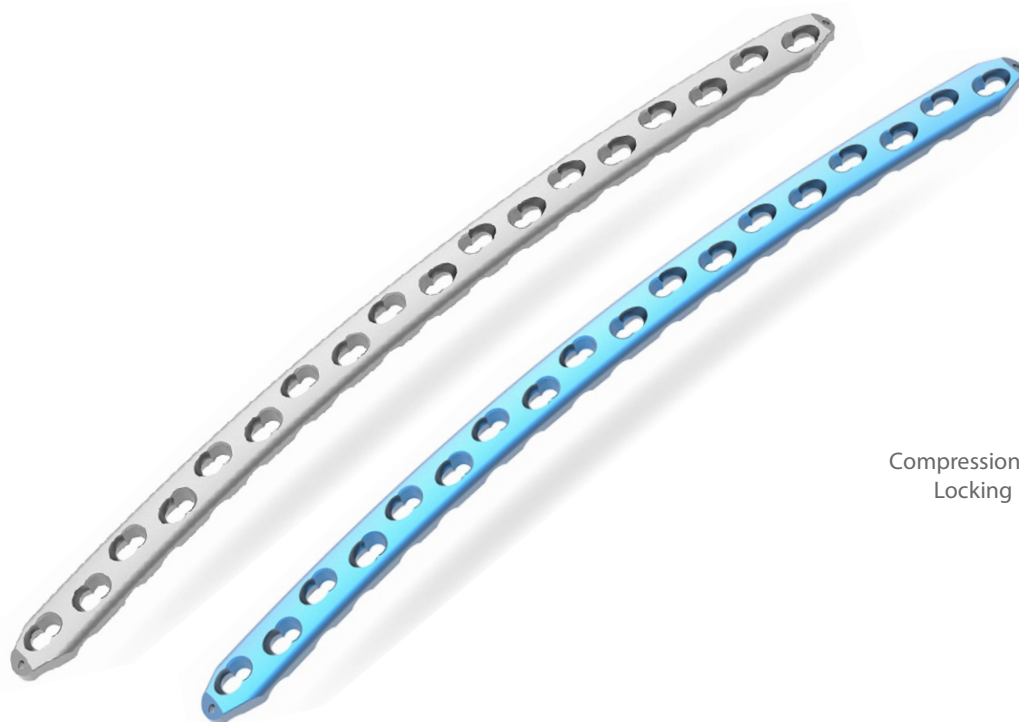
Holes	Stainless Steel	Titanium
2	723.202	TI-723.202
3	723.203	TI-723.203
4	723.204	TI-723.204
5	723.205	TI-723.205
6	723.206	TI-723.206
7	723.207	TI-723.207
8	723.208	TI-723.208
9	723.209	TI-723.209
10	723.210	TI-723.210
11	723.211	TI-723.211
12	723.212	TI-723.212
14	723.214	TI-723.214
16	723.216	TI-723.216
18	723.218	TI-723.218
20	723.220	TI-723.220
22	723.222	TI-723.222
24	723.224	TI-723.224

4.5/5.0mm Wise-Lock Broad Dynamic Compression Plate with LC under cuts


Compression and
Locking Hole



Holes	Stainless Steel	Titanium
5	725.205	TI-725.205
6	725.206	TI-725.206
7	725.207	TI-725.207
8	725.208	TI-725.208
9	725.209	TI-725.209
10	725.210	TI-725.210
11	725.211	TI-725.211
12	725.212	TI-725.212
13	725.213	TI-725.213
14	725.214	TI-725.214
15	725.215	TI-725.215
16	725.216	TI-725.216
18	725.218	TI-725.218
20	725.220	TI-725.220
22	725.222	TI-725.222
24	725.224	TI-725.224

4.5/5.0mm Wise-Lock Curved Broad Plate


Compression and
Locking Hole



Holes	Stainless Steel	Titanium
12	750.112	TI-750.112
13	750.113	TI-750.113
14	750.114	TI-750.114
15	750.115	TI-750.115
16	750.116	TI-750.116
17	750.117	TI-750.117
18	750.118	TI-750.118

4.5mm Cortical Screws, Self-Tapping, (Hex Head)

Length (mm)	Stainless Steel	Titanium
20	105.220	TI-105.220
22	105.222	TI-105.222
24	105.224	TI-105.224
26	105.226	TI-105.226
28	105.228	TI-105.228
30	105.230	TI-105.230
32	105.232	TI-105.232
34	105.234	TI-105.234
36	105.236	TI-105.236
38	105.238	TI-105.238
40	105.240	TI-105.240
42	105.242	TI-105.242
44	105.244	TI-105.244
46	105.246	TI-105.246
48	105.248	TI-105.248
50	105.250	TI-105.250
52	105.252	TI-105.252
54	105.254	TI-105.254
* 55	105.255	TI-105.255
56	105.256	TI-105.256
58	105.258	TI-105.258
60	105.260	TI-105.260
65	105.265	TI-105.265
70	105.270	TI-105.270
80	105.280	TI-105.280
* 85	105.285	TI-105.285
* 90	105.290	TI-105.290

* Sizes not available in Screw Caddy



5.0mm Wise-Lock Screw, Self-Tapping, (Hex Head)

Length (mm)	Stainless Steel	Titanium
12	119.012	TI-119.012
14	119.014	TI-119.014
16	119.016	TI-119.016
18	119.018	TI-119.018
20	119.020	TI-119.020
22	119.022	TI-119.022
24	119.024	TI-119.024
26	119.026	TI-119.026
28	119.028	TI-119.028
30	119.030	TI-119.030
32	119.032	TI-119.032
34	119.034	TI-119.034
36	119.036	TI-119.036
38	119.038	TI-119.038
40	119.040	TI-119.040
42	119.042	TI-119.042
44	119.044	TI-119.044
46	119.046	TI-119.046
48	119.048	TI-119.048
50	119.050	TI-119.050
52	119.052	TI-119.052
54	119.054	TI-119.054
56	119.056	TI-119.056
58	119.058	TI-119.058
60	119.060	TI-119.060
65	119.065	TI-119.065
70	119.070	TI-119.070
75	119.075	TI-119.075
80	119.080	TI-119.080
85	119.085	TI-119.085
90	119.090	TI-119.090



5.0mm Wise-Lock Screw, Self-Tapping & Self-Drilling, (Hex Head)

Length (mm)	Stainless Steel	Titanium
12	119.212	TI-119.212
14	119.214	TI-119.214
16	119.216	TI-119.216
18	119.218	TI-119.218
20	119.220	TI-119.220
22	119.222	TI-119.222
24	119.224	TI-119.224
26	119.226	TI-119.226
28	119.228	TI-119.228
30	119.230	TI-119.230
32	119.232	TI-119.232
34	119.234	TI-119.234
36	119.236	TI-119.236
38	119.238	TI-119.238
40	119.240	TI-119.240
42	119.242	TI-119.242
44	119.244	TI-119.244
46	119.246	TI-119.246
48	119.248	TI-119.248
50	119.250	TI-119.250
55	119.255	TI-119.255
60	119.260	TI-119.260
65	119.265	TI-119.265
70	119.270	TI-119.270
75	119.275	TI-119.275
80	119.280	TI-119.280
85	119.285	TI-119.285
90	119.290	TI-119.290



6.5mm Cancellous Screws, 16mm Thread

Length (mm)	Stainless Steel	Titanium
25	111.025	TI-111.025
30	111.030	TI-111.030
35	111.035	TI-111.035
40	111.040	TI-111.040
45	111.045	TI-111.045
50	111.050	TI-111.050
55	111.055	TI-111.055
60	111.060	TI-111.060
65	111.065	TI-111.065
70	111.070	TI-111.070
75	111.075	TI-111.075
80	111.080	TI-111.080
85	111.085	TI-111.085
90	111.090	TI-111.090
95	111.095	TI-111.095
100	111.100	TI-111.100
* 105	111.105	TI-111.105
* 110	111.110	TI-111.110
* 115	111.115	TI-111.115
* 120	111.120	TI-111.120

* Sizes not available in Screw Caddy



6.5mm Cancellous Screws, 32mm Thread

Length (mm)	Stainless Steel	Titanium
35	112.035	TI-112.035
40	112.040	TI-112.040
45	112.045	TI-112.045
50	112.050	TI-112.050
55	112.055	TI-112.055
60	112.060	TI-112.060
65	112.065	TI-112.065
70	112.070	TI-112.070
75	112.075	TI-112.075
80	112.080	TI-112.080
85	112.085	TI-112.085
90	112.090	TI-112.090
95	112.095	TI-112.095
100	112.100	TI-112.100
* 105	112.105	TI-112.105
* 110	112.110	TI-112.110
* 115	112.115	TI-112.115
* 120	112.120	TI-112.120

* Sizes not available in Screw Caddy



6.5mm Cancellous Screws, Full Thread

Length (mm)	Stainless Steel	Titanium
35	113.035	TI-113.035
40	113.040	TI-113.040
45	113.045	TI-113.045
50	113.050	TI-113.050
55	113.055	TI-113.055
60	113.060	TI-113.060
65	113.065	TI-113.065
70	113.070	TI-113.070
75	113.075	TI-113.075
80	113.080	TI-113.080
85	113.085	TI-113.085
90	113.090	TI-113.090
95	113.095	TI-113.095
100	113.100	TI-113.100
* 105	113.105	TI-113.105
* 110	113.110	TI-113.110
* 115	113.115	TI-113.115
* 120	113.120	TI-113.120

* Sizes not available in Screw Caddy



Instrument

7-041 Proximal Femur Plate System

PDB-5.0 Cannulated Drill Bit Ø5.0mm x Length 230mm



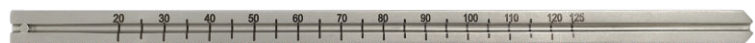
PGW-2.0 Guide Wire Ø2.0mm x Length 250mm



7-041-02 Cannulated Screwdriver for 7.3mm Screws - Proximal Femur Plate



7-041-01 Direct Measuring Device for 7.3mm Screws - Proximal Femur Plate



7-041-03 Wire Guide 5.0mm, for Guide Wire Ø2.0mm - Proximal Femur Plate



7-041-04 Wire Guide 7.3mm, for Guide Wire Ø2.0mm - Proximal Femur Plate



Instrument

- 7-041-05** Threaded Drill Guide 7.3mm for Ø5.0mm Drill Bit - Proximal Femur Plate



- 7-041-06** Threaded Drill Guide 5.0mm for Ø4.3mm Drill Bit - Proximal Femur Plate



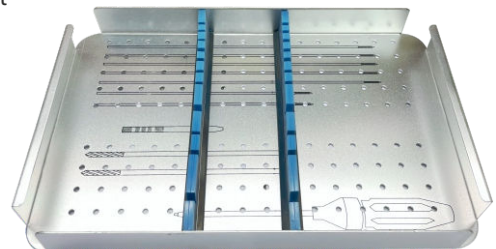
- 7-041-07** Screw Caddy for Proximal Femur Plate System



- 7-041-10** Implant Tray for Proximal Femur Plate System



- 7-041-09** Instrument Tray for Proximal Femur Plate Instrument Set



- 7-041-08** Sterilization Container for Proximal Femur Plate Instrument Set



Instrument
7-041 Proximal Femur Plate Instrument Set

Item Code	Item Name	Unit
PDB-5.0	Cannulated Drill Bit Ø5.0mm x Length 230mm	5
PGW-2.0	Guide Wire Ø2.0mm x Length 250mm	2
7-041-02	Cannulated Screwdriver for 7.3mm Screws - Proximal Femur Plate	1
7-041-01	Direct Measuring Device for 7.3mm Screws - Proximal Femur Plate	1
7-041-03	Wire Guide 5.0mm, for Guide Wire Ø2.0mm - Proximal Femur Plate	1
7-041-04	Wire Guide 7.3mm, for Guide Wire Ø2.0mm - Proximal Femur Plate	1
7-041-05	Threaded Drill Guide 7.3mm for Ø5.0mm Drill Bit - Proximal Femur Plate	1
7-041-06	Threaded Drill Guide 5.0mm for Ø4.3mm Drill Bit - Proximal Femur Plate	1
7-041-07	Screw Caddy for Proximal Femur Plate System	1
7-041-10	Implant Tray for Proximal Femur Plate System	2
7-041-09	Instrument Tray for Proximal Femur Plate Instrument Set	1
7-041-08	Sterilization Container for Proximal Femur Plate Instrument Set	1

Instrument

2100-3.2-145

Drill Bit with Quick Coupling End, Ø3.2mm x Length 145mm, for Large Fragment



2100-4.5-145

Drill Bit with Quick Coupling End, Ø4.5mm x Length 145mm, for Large Fragment



2103-07

Bone Tap Quick Coupling for Ø4.5mm Cortical Screws, for Large Fragment



2103-09

Bone Tap Quick Coupling for Ø6.5mm Cancellous Screws, for Large Fragment



2103-4.3-225

Drill Bit Quick Coupling with Stopper Ø4.3mm x Length 225mm, for Large Fragment



2106-2.0

Guide Sleeve for Ø2.0mm K. Wires - Large Fragment



Instrument

3400-02 T-Handle Countersink for Ø4.5/6.5mm Screws, for Large Fragment



3420-02 Insert Drill Sleeve, Ø4.5/3.2mm, for Large Fragment



3443-38-5.0 Extraction Screw, Ø5.0mm



3408-04 Hexagonal Screwdriver Shaft - 3.5mm Tip, Quick Coupling, Short



2186-3.5 HSS Drill Bit, Ø3.5mm, for Large Fragment



3767-4.5 Double Drill Guide, Ø4.5/3.2mm



Instrument

1472-058

Self-Centering Double Drill Guide, Ø4.5/3.2mm, for Large Fragment



3767-6.5

Double Drill Guide, Ø6.5/3.2mm



BT-LF-S

Bending Template, Small, for Wise-Lock Large Fragment



BT-LF-M

Bending Template, Medium, for Wise-Lock Large Fragment



BT-LF-L

Bending Template, Large, for Wise-Lock Large Fragment



1472-062

Threaded Drill Sleeve for Drill Bit Ø4.3mm - Large Fragment



Instrument

GW-2.0-230

Guide Wire with Threaded Tip, Ø2.0mm x Thread Length 10mm x Length 230mm



3766-003

Allen Key, Hex 3.0mm for Large Fragment



1472-052

Pulling Drill Bit, Ø4.0mm, for Large Fragment



3443-400

Depth Gauge measuring upto 110mm



3406-04

Screwdriver, Hex 3.5mm



3406-04S

Holding Sleeve for Screwdriver, Hex 3.5mm, for Locking Screw



Instrument

3445-3.5

T-Handle Screwdriver, Hex 3.5mm, Self-Retaining for Large Fragment



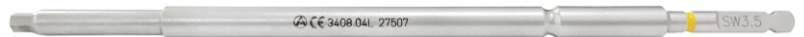
1472-056

Screwdriver Holding Sleeve for Cortical and Cancellous Screws



3408-04L

Hexagonal Screwdriver Shaft with Quick Coupling - 3.5mm Tip, Long



7-051-04

Trephine for Large Fragment



3402-000

T-Handle with Quick Coupling



1472-054

Quick Coupling Shaft



Instrument

TQ-3.5

Torque Limiting Attachment, 4.0Nm, for Large Fragment

**1472-064**

Torque Screwdriver Handle

**3409-01L**

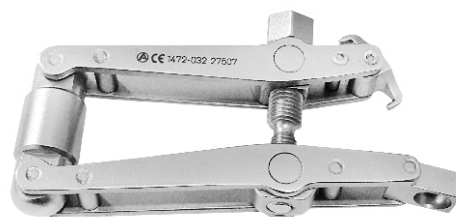
Bending Iron, Left

**3409-01R**

Bending Iron, Right

**1472-032**

Articulated Tension Device

**1472-034**

Articulated Tension Device Key



Instrument

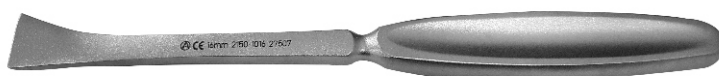
2150-1008

Periosteal Elevator, Round, 8mm



2150-1016

Periosteal Elevator, Flat, 16mm



2107-1240

Reduction Forcep, Pointed, Ratchet Lock, 240mm, for Large Fragment



2106-1240

Reduction Forcep, Serrated, Speed Lock, 240mm, for Large Fragment



2105-000

Self-Centering Bone Holding Forcep, Speed Lock



1472-070

Hohmann Retractor, 44mm, for Large Fragment



Instrument

2146-016

Hohmann Retractor, 16mm, for Large Fragment



7-051-03

Screw Holding Forcep for Wise-Lock Large Fragment



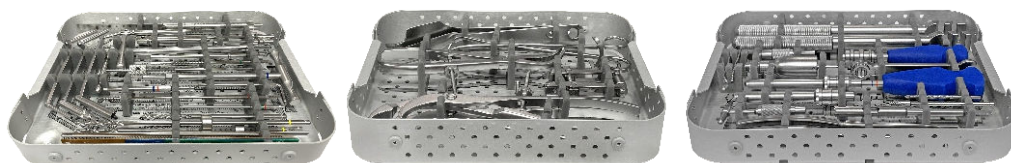
TI-007NW

Screw Caddy for 5.0mm Wise-Lock Large Fragment System



7-051-02

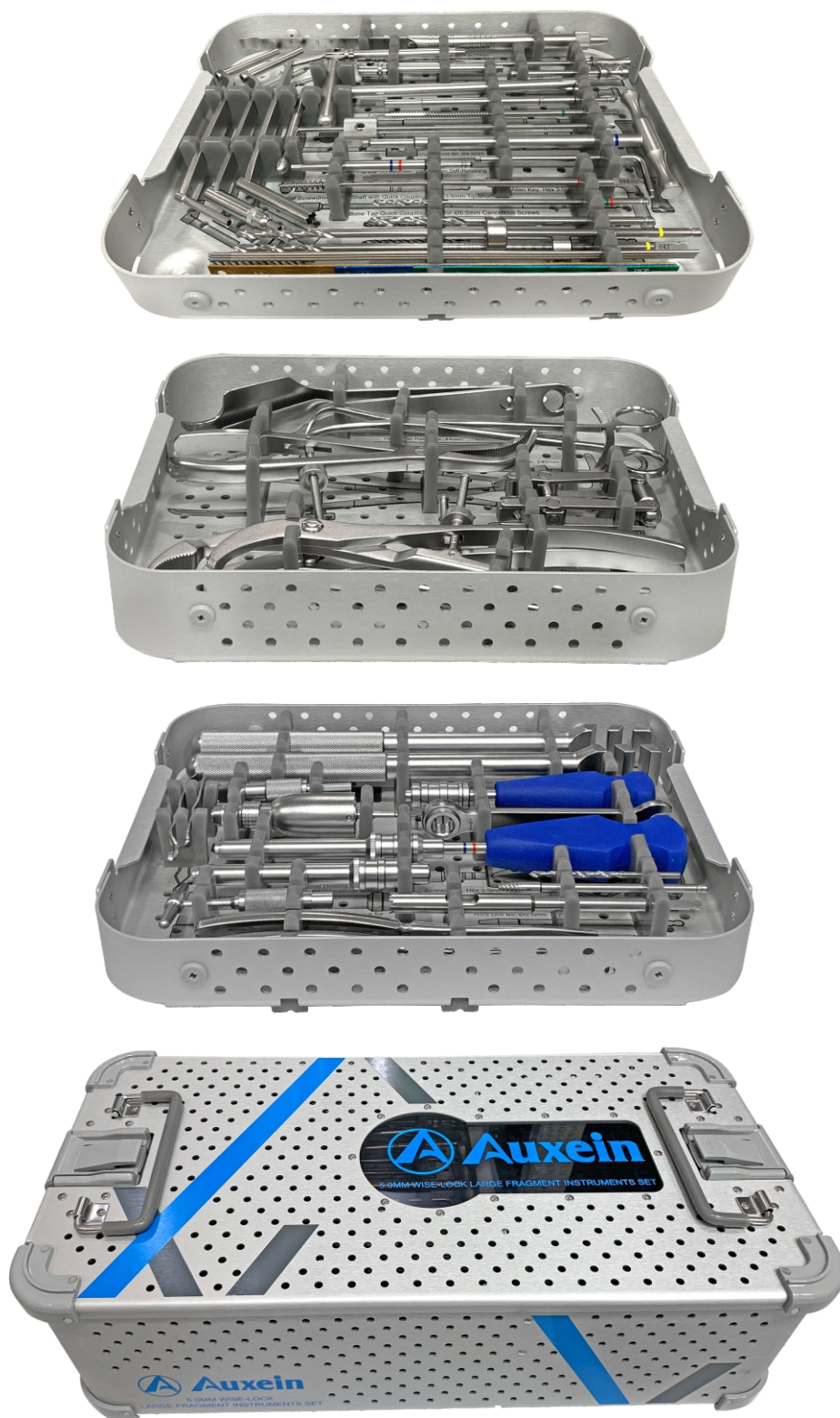
Instrument Trays for 5.0mm Wise-Lock Large Fragment Instrument Set



SC-004

Container for 5.0mm Wise-Lock Large Fragment Instrument Set



2303-000 Large Fragment Wise-Lock Instrument Set

2303-000 Large Fragment Wise-Lock Instrument Set

Codes	Set Consisting of:	Units
2100-3.2-145	Drill Bit with Quick Coupling End, Ø3.2mm x Length 145mm, for Large Fragment	1
2100-4.5-145	Drill Bit with Quick Coupling End, Ø4.5mm x Length 145mm, for Large Fragment	1
2103-07	Bone Tap Quick Coupling for Ø4.5mm Cortical Screws, for Large Fragment	1
2103-09	Bone Tap Quick Coupling for Ø6.5mm Cancellous Screws, for Large Fragment	1
2103-4.3-225	Drill Bit Quick Coupling with Stopper Ø4.3mm x Length 225mm, for Large Fragment	2
2106-2.0	Guide Sleeve for Ø2.0mm K. Wires - Large Fragment	1
3400-02	T-Handle Countersink for Ø4.5/6.5mm Screws, for Large Fragment	1
3420-02	Insert Drill Sleeve, Ø4.5/3.2mm, for Large Fragment	1
3443-38-5.0	Extraction Screw, Ø5.0mm	1
3408-04	Hexagonal Screwdriver Shaft - 3.5mm Tip, Quick Coupling, Short	1
2186-3.5	HSS Drill Bit, Ø3.5mm, for Large Fragment	1
3767-4.5	Double Drill Guide, Ø4.5/3.2mm	1
1472-058	Self-Centering Double Drill Guide, Ø4.5/3.2mm, for Large Fragment	1
3767-6.5	Double Drill Guide, Ø6.5/3.2mm	1
BT-LF-S	Bending Template, Small, for Wise-Lock Large Fragment	1
BT-LF-M	Bending Template, Medium, for Wise-Lock Large Fragment	1
BT-LF-L	Bending Template, Large, for Wise-Lock Large Fragment	1
1472-062	Threaded Drill Sleeve for Drill Bit Ø4.3mm - Large Fragment	3
GW-2.0-230	Guide Wire with Threaded Tip, Ø2.0mm x Thread Length 10mm x Length 230mm	3
3766-003	Allen Key, Hex 3.0mm for Large Fragment	1
1472-052	Pulling Drill Bit, Ø4.0mm, for Large Fragment	1
3443-400	Depth Gauge measuring upto 110mm	1
3406-04	Screwdriver, Hex 3.5mm	1
3406-04S	Holding Sleeve for Screwdriver, Hex 3.5mm, for Locking Screw	1
3445-3.5	T-Handle Screwdriver, Hex 3.5mm, Self-Retaining for Large Fragment	1
1472-056	Screwdriver Holding Sleeve for Cortical and Cancellous Screws	1
3408-04L	Hexagonal Screwdriver Shaft with Quick Coupling - 3.5mm Tip, Long	1
7-051-04	Trephine for Large Fragment	1
3402-000	T-Handle with Quick Coupling	1
1472-054	Quick Coupling Shaft	1
TQ-3.5	Torque Limiting Attachment, 4.0Nm, for Large Fragment	1
1472-064	Torque Screwdriver Handle	1
3409-01L	Bending Iron, Left	1
3409-01R	Bending Iron, Right	1
1472-032	Articulated Tension Device	1
1472-034	Articulated Tension Device Key	1
2150-1008	Periosteal Elevator, Round, 8mm	1

Instrument

Codes	Set Consisting of:	Units
2150-1016	Periosteal Elevator, Flat, 16mm	1
2107-1240	Reduction Forcep, Pointed, Ratchet Lock, 240mm, for Large Fragment	1
2106-1240	Reduction Forcep, Serrated, Speed Lock, 240mm, for Large Fragment	1
2105-000	Self-Centering Bone Holding Forcep, Speed Lock	2
1472-070	Hohmann Retractor, 44mm, for Large Fragment	1
2146-016	Hohmann Retractor, 16mm, for Large Fragment	1
7-051-03	Screw Holding Forcep for Wise-Lock Large Fragment	1
TI-007NW	Screw Caddy for 5.0mm Wise-Lock Large Fragment System	1
7-051-02	Instrument Trays for 5.0mm Wise-Lock Large Fragment Instrument Set	3
SC-004	Container for 5.0mm Wise-Lock Large Fragment Instrument Set	1



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