

Step

Ankle Fracture Plating System



RESPONSE
ORTH  NSE



Response Ortho is a global orthopaedic trauma solutions manufacturer offering premium products created under its founding principles of innovation, excellence by design and functional superiority.





Surgical technique by
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Introduction

The STEP low profile Ankle Fracture Plating System plates reduce the risk of injury to distal tibia medial soft tissue due to the combination of scientifically determined shape and high strength titanium alloy. Due to their anatomic shapes the plates may be placed close to sensitive areas around the joint and diaphysis.

The selected plates generally don't need to be bent to match the patient's bony anatomy, and can (function) as a template to help regain the bones anatomic shape in complex fracture treatments.

1. Preoperative planning

When planning the surgery it is essential to review all the radiographic images to determine appropriate plate length and location of the distal locking screws.

Surgery is a complicated process requiring several steps to be coordinated at once and simply selecting a plate alone is not adequate.

Patient positioning, proper incision, correct plate size, the meticulous reduction of the articular surface and metaphyseal fragments, understanding of the pathology, sufficient knowledge of the patient's anatomy and soft tissue handling are prerequisites for a satisfactory outcome.

Click2Correct (www.click2correct.com), web-based pre-operative planning software can help to ease the complication of the surgery by simulating the reduction and fixation of the fracture.

2. Patient Positioning

Most the distal tibial and fibular fractures are operated with the patient in a supine position with a support under ipsilateral knee/hip.

The support under the buttock of the injured side in will prevent external rotation of the limb. Allowing the surgeon to apply precise reduction by keeping the foot in neutral position. Fluoroscopic visualisation of the ankle throughout the procedure is strongly recommended.

Tourniquet usage is as per surgeon choice.

3. Locking and Non-Locking Screw

Screw Size	Drill Bit	Locking Guide	Non-Locking Guide	Driver Tip
2.3mm	2.0mm	00-0934-00	00-0936-00	00-2013-01
2.7mm	2.0mm	00-0902-00	00-0916-00	00-2113-03
3.5mm and 4.0mm	2.8mm	00-0901-00	00-0917-00	00-2113-03

Application Non-Locking screw

- Use the relevant drill bit and non-threaded drill guide,
- Determine necessary screw length using the depth gauge (00-0907-00)
- Apply the selected screw with quick release(QR) handle (00-1011-01) and applicable driver tip.



Application of Non-Locking screws for compression

- Use the relevant drill bit and non-threaded drill guide from far cortex to fracture,
- Determine necessary screw with depth gauge (00-0907-00),
- Apply the selected screw with QR handle (00-1011-01) and applicable driver tip.



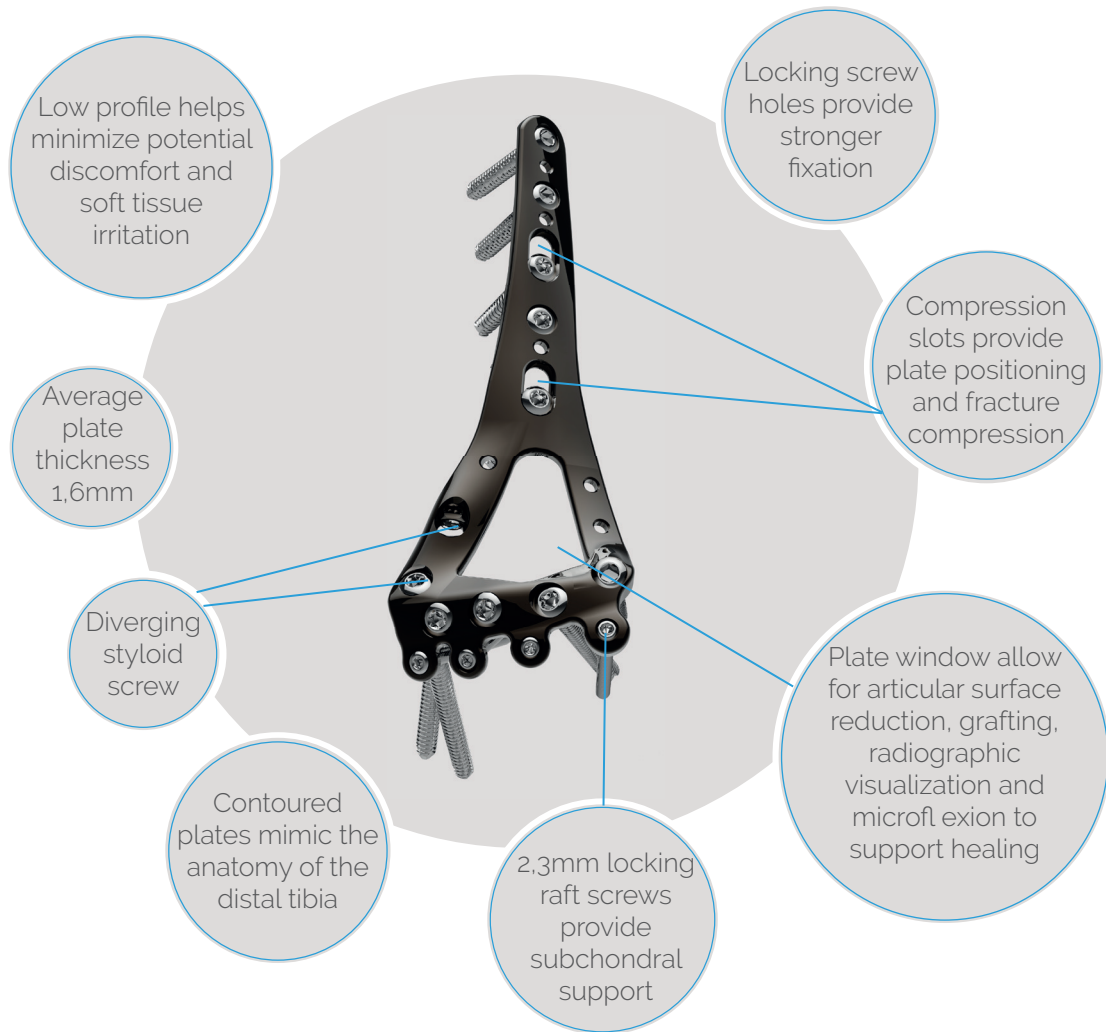
Application of Locking screws

- Use the relevant drill bit and threaded drill guide
- Determine necessary screw with depth gauge (00-0907-00),
- Apply the selected screw with QR handle (00-1011-01) and applicable driver tip.



Screws -> Plates	2.3mm Locking	2.3mm Non-Locking	2.3mm Locking Peg	2.7mm Locking	2.7mm Non-Locking	3.5mm Locking	3.5mm Non-Locking	4.0mm Cancellous
Anterior	X	X	X	X	X	X	X	X
Medial Fork	X	X	X	X	X	X	X	X
Medial Spoon				X	X	X	X	X
Anatomic Fibula					X	X	X	X
1/3 Tubular				X	X	X	X	X
Available Length	8-50mm	8-50mm	8-50mm	8-45mm	8-55mm	8-65mm	8-65mm	8-60mm

Anatomic Distal Tibia Anterior Plate



Indications

Anatomic Distal Tibia Anterior Plate is indicated for internal fixation of non-comminuted, comminuted distal tibia fractures, osteotomies, and nonunions from an anterior approach both in normal and osteopenic bone.

Plate sizes and lengths

2 Hole (Short)	64,0 mm
4 Hole (Medium)	87,0 mm
5 Hole (Long)	98,5 mm

1. Articular Reduction

After the surgical opening of the skin and soft tissues, the fracture should be reduced using bone forceps.

2. Plate Placement

The plate is designed to be placed at the anterolateral aspect of the distal tibia just above the subchondral bone in order to provide support for the articular surface and any comminuted metaphyseal bone. There are three optional sizes of anterolateral plates; short, medium and long (see above). The surgeon should select the plate that fits the patient's anatomy and fracture pattern.

3. Fixation

1.8mm K-wires (00-0919-00) are required for temporary fixation of the plate on the bone after open anatomic reduction.

After optimal plate placement with temporary K-wires on the plate and bone, fluoroscopic control in two planes is strongly recommended to check for appropriate fracture reduction and plate positioning before start of definitive fixation.

The joint surface should be fixed using non-locking lag screws under the principles of absolute balance and stability. The same process should be applied to the empty holes in the plate in order to provide compression across joint fragments.

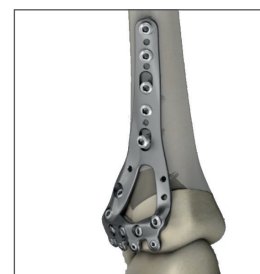
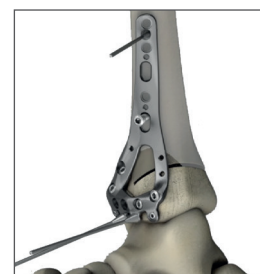
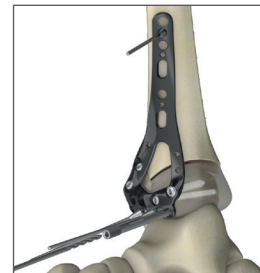
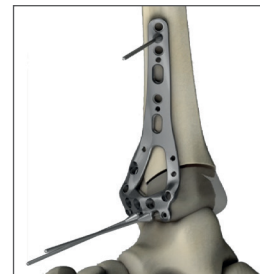
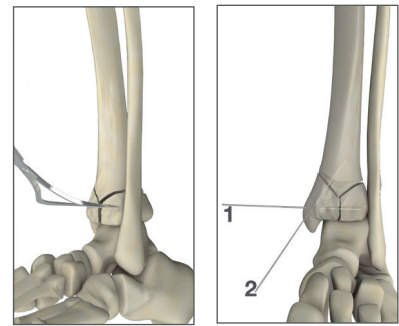
Subcondylar area should be supported with 2.3mm raft screws over the small screw holes in order to prevent articular cartilage collapse.

Compression over the fracture line can be applicable via cortical non-locking screws through the proximal compression holes above the fracture line after distal screws.

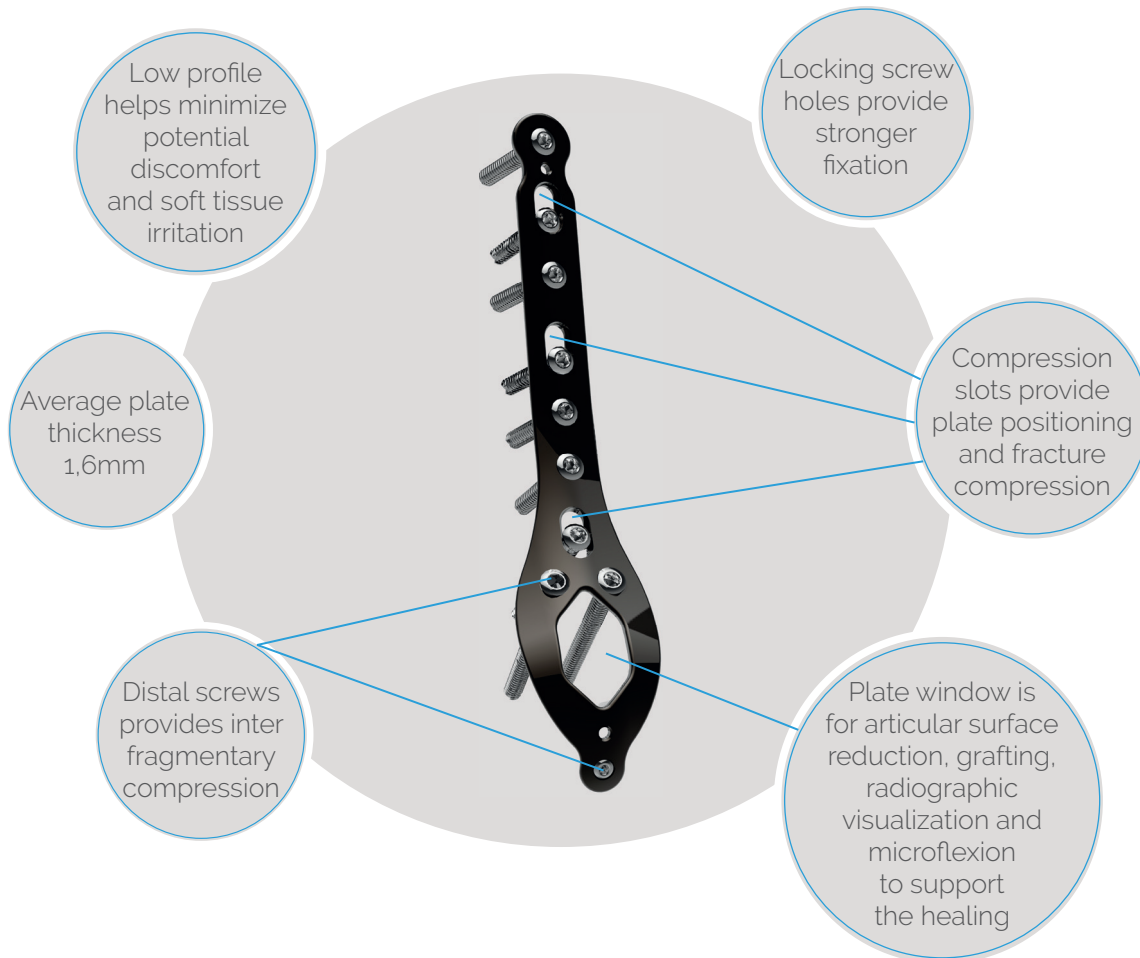
Screws on diaphyseal region may require tapping before inserting screws which depends on the bone quality of the patient.

Especially on Osteoporotic patients, using 3.5mm locking screws on large distal holes close to the joint area may provide stronger osteosynthesis.

The window in metaphysis area allows intra-articular small broken pieces (butterfly fracture) placements and grafting



Anatomic Distal Tibia Medial Spoon Plate



Indications

Anatomic Distal Tibia Medial Spoon Plates are indicated for internal fixation for non-comminuted distal tibia fractures, medial malleolar fractures, osteotomies, and nonunions, from anteromedial approach both in normal and osteopenic bone.

Plate sizes and lengths

3 Hole (Short)	71.5 mm
5 Hole (Medium)	95.5 mm
7 Hole (Long)	120.5 mm
10 Hole (XLong)	163.5 mm*
12 Hole (XXLong)	195.5 mm*

* Longer plates are optional and are thicker than 3-5-7 hole plates.

1. Articular Reduction

The bone fracture will be reduced with the bone forceps after the incision.

2. Plate Placement

The plate should be placed distal tibia to support medial fractures.

Plate will be placed at the medial part of the distal tibia. There are three optional sizes of spoon plates as short, medium and long. The surgeon should select the one that fits on the patients anatomy and fracture pattern.

3. Fixation

1.8mm K-wires (00-0919-00) are required for temporary fixation of the plate on the bone after open anatomic reduction.

After optimal plate placement with temporary K-wires on the plate and bone, fluoroscopic control in two planes is strongly advocated for checking the fracture reduction and plate positioning before starting the definitive fixation.

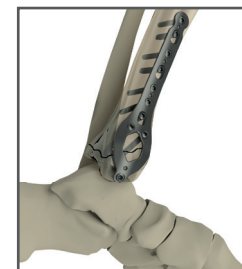
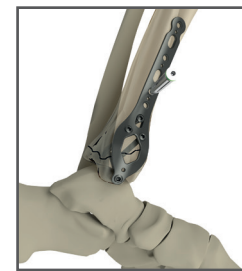
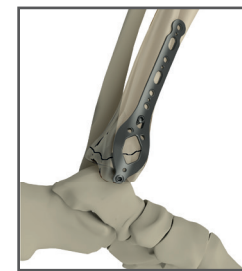
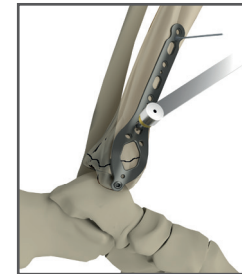
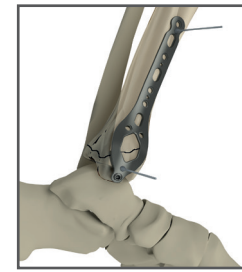
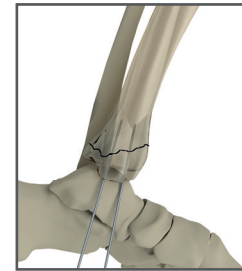
Initially, one 2.7mm, 3.5mm or 4.0mm locking screw will be used for the distal hole of the plate window. Compression over the fracture line can be applicable via cortical non-locking screws through the proximal compression holes above the fracture line after distal screw.

2.7mm, 3.5mm non-locking cortical or 4.0mm cancellous screws will be used for the two metaphysis area holes above the plate window.

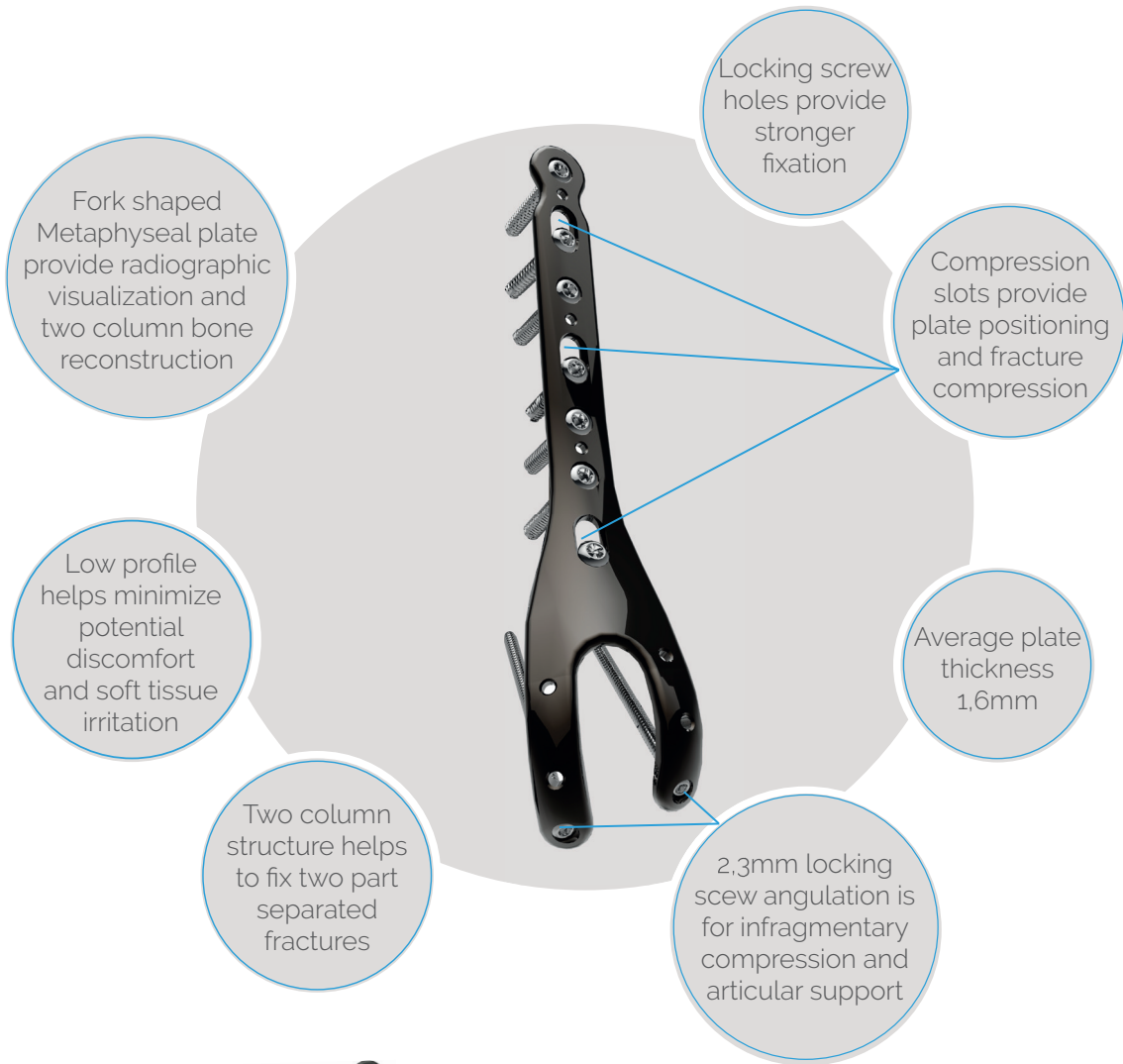
Screws on Diaphysis may require tapping before inserting screws which depends on the bone quality of the patient.

Especially on Osteoporotic patients, using 3.5mm locking screws on large distal holes close to the joint area may provide stronger osteosynthesis.

The window in metaphysis area allows intra-articular small broken pieces (butterfly fracture) placements and grafting defected areas.



Anatomic Distal Tibia Medial Fork Plate



Indications

Anatomic Distal Tibia Medial Spoon Plates are indicated for internal fixation for non-comminuted distal tibia fractures, medial malleolar fractures, osteotomies, and nonunions, from anteromedial approach both in normal and osteopenic bone.

Plate sizes and lengths

3 Hole (Short)	70,0 mm
5 Hole (Medium)	95,5 mm
7 Hole (Long)	121,0 mm
10 Hole (XLong)	161,0 mm*
13 Hole (XXLong)	199,7 mm*

* Longer plates are optional and are thicker than 3-5-7 hole plates.

1. Articular Reduction

The bone fracture will be reduced with the bone forceps after the incision.

2. Plate Placement

Plate will be placed at the distal part of the distal tibia in order to support medial fractures. There are three optional sizes of spoon plates as short, medium and long. The surgeon should select the one that fits on the patients anatomy and fracture pattern.

3. Fixation

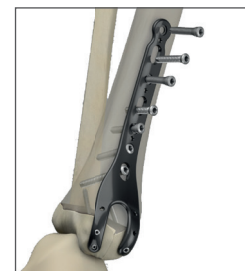
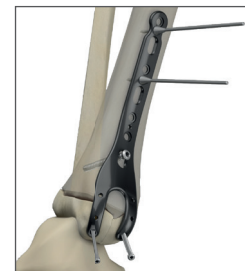
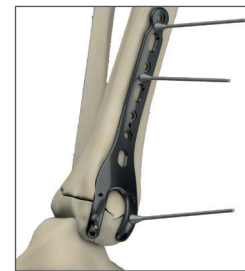
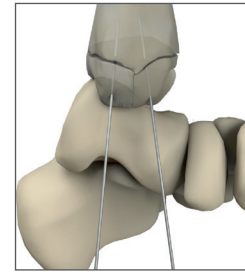
1.8mm K-wires (00-0919-00) are required for temporary fixation of the plate on the bone after open anatomic reduction.

After optimal plate placement with temporary K-wires on the plate and bone, fluoroscopic control in two planes is strongly advocated for checking the fracture reduction and plate positioning before starting the definitive fixation. 2.3mm locking and non-locking screws will be applied on the two small distal holes of the plate.

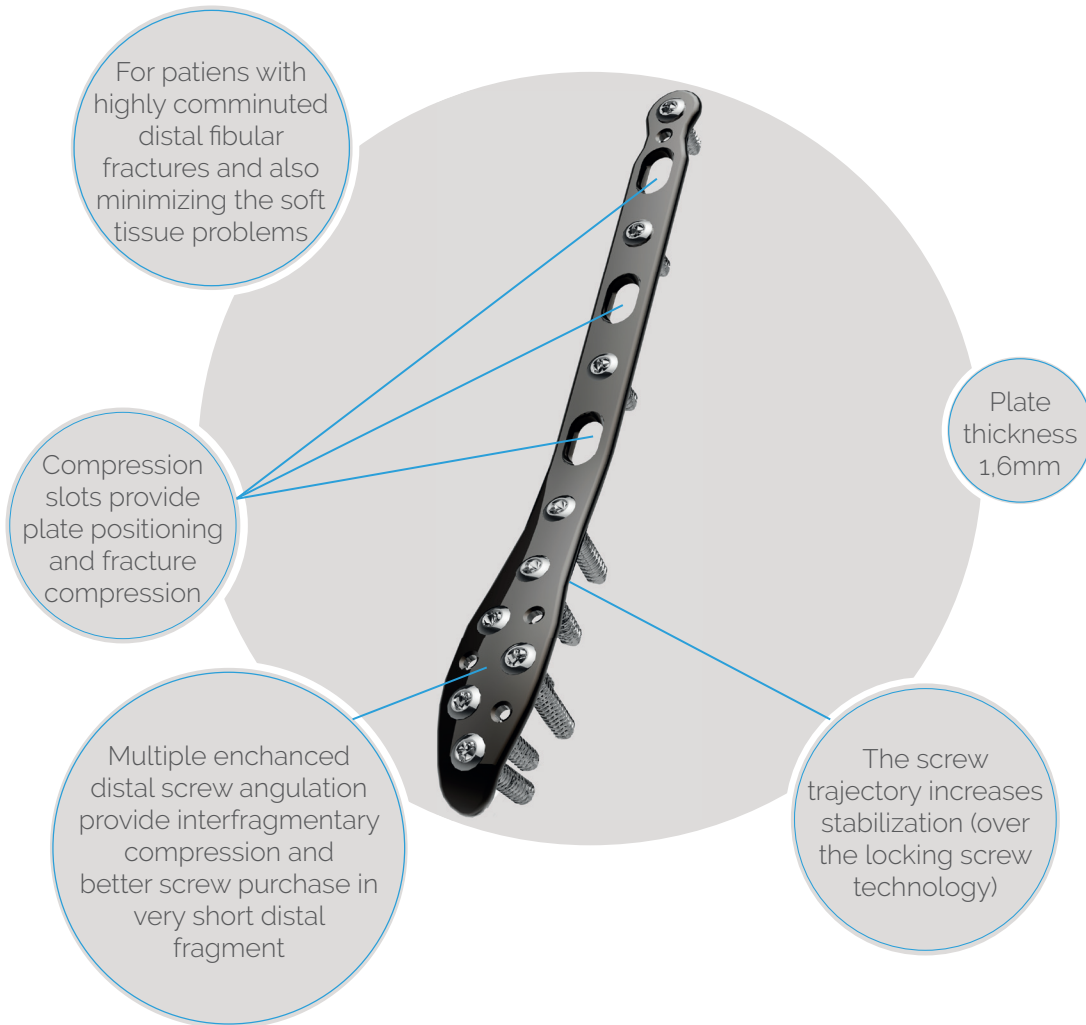
If required, compression over the fracture line can be applicable via non-locking screws through compression holes. The surgeon may choose desired/necessary 2.7mm or 3.5mm cortical locking and non-locking screws and 4.0mm cancellous screws by suitable sizes on the Diaphysis plate holes.

Especially on Osteoporotic patients, using 3.5mm locking screws on large distal holes close to the joint area may provide stronger osteosynthesis.

Screws on Diaphysis may require taps before inserting screws which depends on the bone quality of the patient.



Anatomic Fibula Plate



Indications

Anatomic Fibula Plate is indicated for internal fixation for distal fibular fractures, osteotomies, and nonunions, both in normal and osteopenic bones.

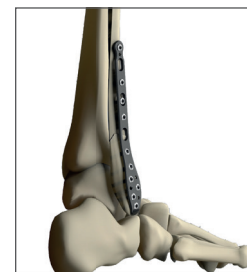
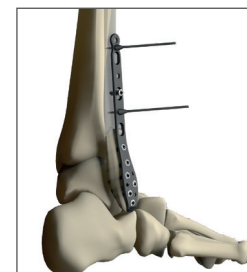
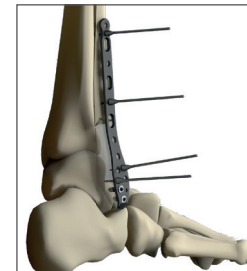
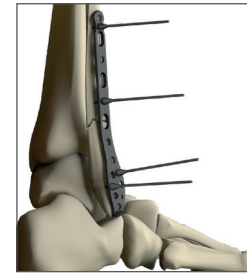
Plate sizes and lengths

8 Hole	79,0 mm
10 Hole	105,5 mm
12 Hole	131,0 mm
14 Hole	157,0 mm

1. Articular Reduction

Fibular length, alignment and rotation should be restored precisely. Depending to the fracture configuration, there are several options for reduction.

- In spiral and oblique fracture patterns, with manual traction and rotational manipulation distally, a bone clamp can be used for reduction. Provisional reduction can be maintained with 1 or 2 K-wires, and then independent lag screws should be applied through the correct axis for definitive fixation.
- In transverse fracture patterns, a small bone hook through the fracture site can be used for reduction with manual traction distally. Provisional reduction can be maintained with K-wires.
- In comminuted fracture patterns, the plate itself can be used to assist the reduction. While applying traction and rotational manipulation distally, provisional fixation can be maintained with multiple K-wires that are placed through the distal and proximal holes of the plate.



2. Plate Placement

Expose the fibula proximally and distally as needed for plate length. Depending to the patient's anatomy, distal end of the plate should be positioned 0-5mm from the tip of the fibula. The direction of the locking screws is predetermined by the design, based on the average anatomy of the distal fibula. The distal screw trajectories will be altered in this scenario and the surgeon should confirm all trajectories with K-wires first and then under fluoroscopy.

3. Fixation

Initially, one or two screws will be used on the distal bone segment. It is important that the screw tips should not pass the articular surface on the fibula distal.

It is recommended to pull the plate to the fibula using a non-locking cortical screw.

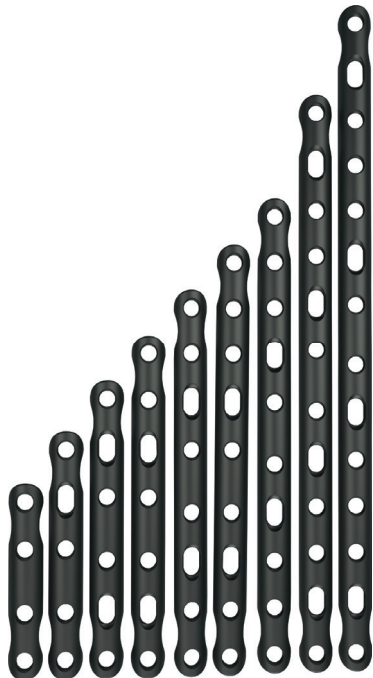
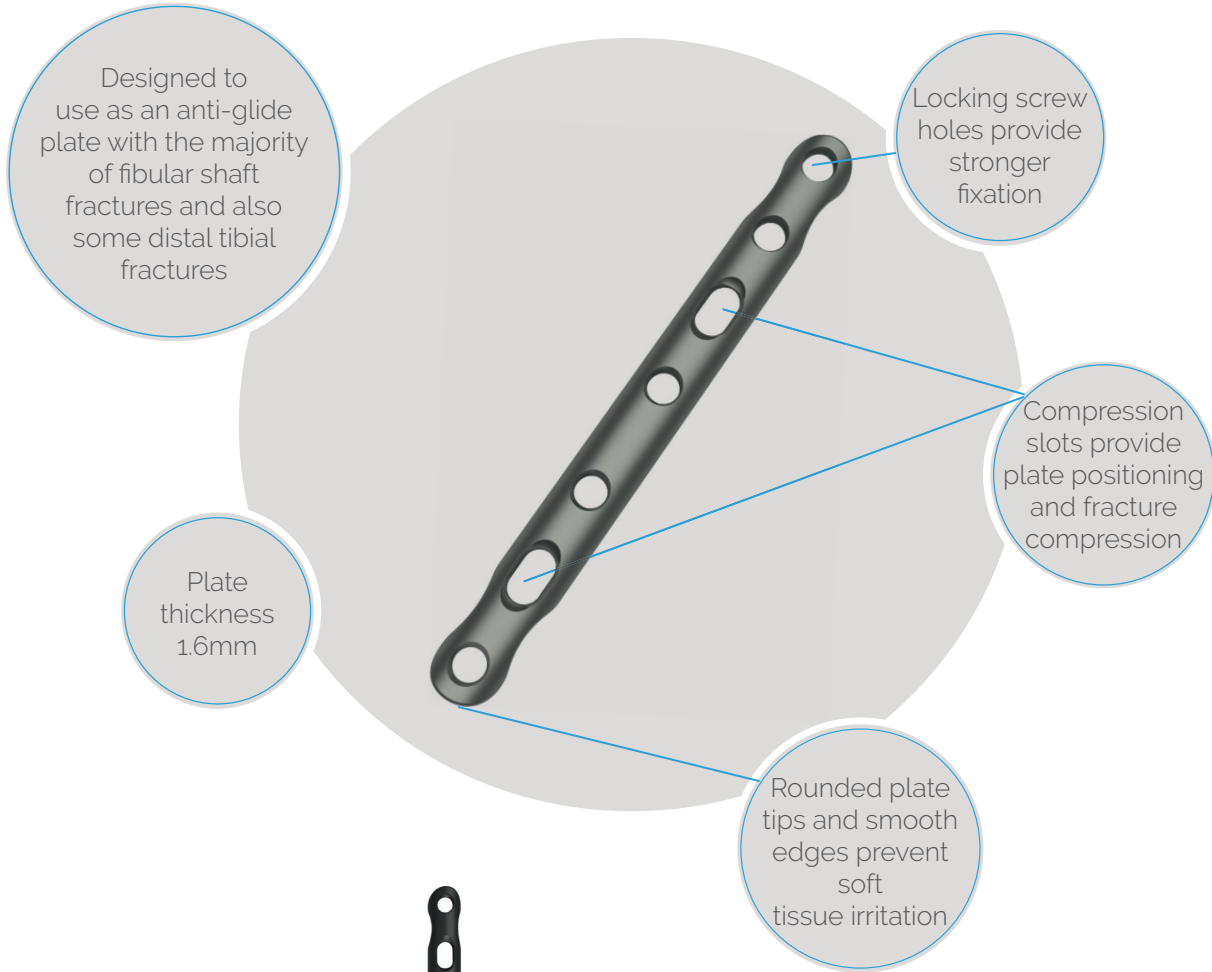
The diaphyseal holes should be screwed after distal screws on the plate.

Lag screw usage is always suggested on Spiral and oblique fractures.

For transverse fractures; compression over the fracture line can be applicable via cortical non-locking screws through the farthest proximal compression holes above the fracture line with drill guides (00-0916-00). One or two syndesmosis screws should be added to the binding if necessary.

Product Features

1/3 Tubular Plate



Indications

Low Profile 1/3 Tubular Plate is indicated for internal fixation for tibular shaft fractures, osteotomies, and nonunions, both in normal and psteopenic bone..

.Plate sizes and lengths

4 Hole	49.5 mm
5 Hole	62.5 mm
6 Hole	75.5 mm
7 Hole	87.5 mm
8 Hole	99.5 mm
9 Hole	111.5 mm
10 Hole	123.5 mm
12 Hole	151.5 mm
14 Hole	175.5 mm

1. Reduction

Fibular length, alignment and rotation should be restored precisely.

2. Plate Placement

The plate may be temporarily held in place with standard plate holding forceps.

The center of the plate should be positioned over the fracture site if compression desired.

3. Fixation

It is recommended to pull the plate to the fibula using a non-locking cortical screw.

It is important that the screw tips should not pass the articular surface on the fibula distal. The diaphyseal holes should be screwed after distal screws on the plate.

Lag screw usage is always suggested on Spiral and oblique fractures.

For transverse fractures; compression over the fracture line can be applicable via cortical non-locking screws through the farthest proximal compression holes above the fracture line with drill guides (00-0916-00).

Ordering Information

00-9043-14 Pilon plates tray (using w/00-9043-00)	1
00-8053-14 Pilon plate Tray For Universal Set	1
10-2283-11 Distal Tibia Medial Fork Plate,Short, Left	1
10-2283-12 Distal Tibia Medial Fork Plate,Medium, Left	1
10-2283-13 Distal Tibia Medial Fork Plate, Long, Left	1
10-2283-15 Distal Tibia Medial Fork Plate, XLong, Left	1*
10-2283-16 Distal Tibia Medial Fork Plate, XXLong, Left	1*
10-2283-21 Distal Tibia Medial Fork Plate, Short, Right	1
10-2283-22 Distal Tibia Medial Fork Plate, Medium, Right	1
10-2283-23 Distal Tibia Medial Fork Plate, Long, Right	1
10-2283-25 Distal Tibia Medial Fork Plate, XLong, Right	1*
10-2283-26 Distal Tibia Medial Fork Plate, XXLong, Right	1*
10-2284-11 Distal Tibia Medial Spoon Plate, Short, Left	1
10-2284-12 Distal Tibia Medial SpoonPlate, Medium, Left	1
10-2284-13 Distal Tibia Medial Spoon Plate, Long, Left	1
10-2284-15 Distal Tibia Medial Spoon Plate, XLong, Left	1*
10-2284-16 Distal Tibia Medial Spoon Plate, XXLong, Left	1*
10-2284-21 Distal Tibia Medial Spoon Plate, Short, Right	1
10-2284-22 Distal Tibia Medial Spoon Plate, Medium, Right	1
10-2284-33 Distal Tibia Medial Spoon Plate, Long, Right	1
10-2284-25 Distal Tibia Medial Spoon Plate, XLong, Right	1*
10-2284-26 Distal Tibia Medial Spoon Plate, XXLong, Right	1*
10-2285-01 Distal Tibia Anteriolateral Plate, Short Left	1
10-2285-02 Distal Tibia Anteriolateral Plate, Medium Lef	1
10-2285-03 Distal Tibia Anteriolateral Plate, Long Left	1
10-2285-05 Distal Tibia Anterior Plate, XLong, Left	1*
10-2285-06 Distal Tibia Anterior Plate, XXLong, Left	1*
10-2286-01 Distal Tibia Anteriolateral Plate, Short Right	1
10-2286-02 Distal Tibia Anteriolateral Plate, Medium Right	1
10-2286-03 Distal Tibia Anteriolateral Plate, Short Right	1
10-2286-05 Distal Tibia Anterior Plate, XLong, Right	1*
10-2286-06 Distal Tibia Anterior Plate, XXLong, Right	1*
10-2030-08 Low Profile Locking Fibila Plate 8 Hole	1
10-2030-10 Low Profile Locking Fibila Plate 10 Hole	1
10-2030-12 Low Profile Locking Fibila Plate 12 Hole	1
10-2030-14 Low Profile Locking Fibila Plate 14 Hole	1

* Longer plates are optional sizes and should be ordered additionally

10-1011-04 3.5mm 1/3 Tubular Plate 4 Hole	2
10-1011-05 3.5mm 1/3 Tubular Plate 5 Hole	2
10-1011-06 3.5mm 1/3 Tubular Plate 6 Hole	2
10-1011-07 3.5mm 1/3 Tubular Plate 7 Hole	2
10-1011-08 3.5mm 1/3 Tubular Plate 8 Hole	2
10-1011-09 3.5mm 1/3 Tubular Plate 9 Hole	2
10-1011-10 3.5mm 1/3 Tubular Plate 10 Hole	2
10-1011-12 3.5mm 1/3 Tubular Plate 12 Hole	2
10-1011-14 3.5mm 1/3 Tubular Plate 14 Hole	2
30-1231-08 2.3mm x 08mm Cortical Screw, ST	3
30-1231-10 2.3mm x 10mm Cortical Screw, ST	3
30-1231-12 2.3mm x 12mm Cortical Screw, ST	3
30-1231-14 2.3mm x 14mm Cortical Screw, ST	3
30-1231-16 2.3mm x 16mm Cortical Screw, ST	3
30-1231-18 2.3mm x 18mm Cortical Screw, ST	3
30-1231-20 2.3mm x 20mm Cortical Screw, ST	3
30-1231-22 2.3mm x 22mm Cortical Screw, ST	3
30-1231-24 2.3mm x 24mm Cortical Screw, ST	3
30-1231-26 2.3mm x 26mm Cortical Screw, ST	3
30-1231-28 2.3mm x 28mm Cortical Screw, ST	3
30-1231-30 2.3mm x 30mm Cortical Screw, ST	3
30-1231-32 2.3mm x 32mm Cortical Screw, ST	3
30-1231-34 2.3mm x 34mm Cortical Screw, ST	3
30-1231-36 2.3mm x 36mm Cortical Screw, ST	3
30-1231-38 2.3mm x 38mm Cortical Screw, ST	3
30-1231-40 2.3mm x 40mm Cortical Screw, ST	3
30-1231-45 2.3mm x 45mm Cortical Screw, ST	3
30-1231-50 2.3mm x 50mm Cortical Screw, ST	3
30-2230-08 2.3mm x 08mm Locking Screw	3
30-2230-10 2.3mm x 10mm Locking Screw	3
30-2230-12 2.3mm x 12mm Locking Screw	3
30-2230-14 2.3mm x 14mm Locking Screw	3
30-2230-16 2.3mm x 16mm Locking Screw	3
30-2230-18 2.3mm x 18mm Locking Screw	3
30-2230-20 2.3mm x 20mm Locking Screw	3
30-2230-22 2.3mm x 22mm Locking Screw	3
30-2230-24 2.3mm x 24mm Locking Screw	3
30-2230-26 2.3mm x 26mm Locking Screw	3
30-2230-28 2.3mm x 28mm Locking Screw	3

STEP Foot & Ankle Solutions

■ Ankle Fracture Plating System

30-2230-30	2.3mm x 30mm Locking Screw	3
30-2230-32	2.3mm x 32mm Locking Screw	3
30-2230-34	2.3mm x 34mm Locking Screw	3
30-2230-36	2.3mm x 36mm Locking Screw	3
30-2230-38	2.3mm x 38mm Locking Screw	3
30-2230-40	2.3mm x 40mm Locking Screw	3
30-2231-45	2.3mm x 45mm Locking Screw	3
30-2231-50	2.3mm x 50mm Locking Screw	3
30-2240-08	2.3mm x 08mm Locking Peg	3
30-2240-10	2.3mm x 10mm Locking Peg	3
30-2240-12	2.3mm x 12mm Locking Peg	3
30-2240-14	2.3mm x 14mm Locking Peg	3
30-2240-16	2.3mm x 16mm Locking Peg	3
30-2240-18	2.3mm x 18mm Locking Peg	3
30-2240-20	2.3mm x 20mm Locking Peg	3
30-2240-22	2.3mm x 22mm Locking Peg	3
30-2240-24	2.3mm x 24mm Locking Peg	3
30-2240-26	2.3mm x 26mm Locking Peg	3
30-2240-28	2.3mm x 28mm Locking Peg	3
30-2240-30	2.3mm x 30mm Locking Peg	3
30-2240-32	2.3mm x 32mm Locking Peg	3
30-2240-34	2.3mm x 34mm Locking Peg	3
30-2240-36	2.3mm x 36mm Locking Peg	3
30-2240-38	2.3mm x 38mm Locking Peg	3
30-2240-40	2.3mm x 40mm Locking Peg	3
30-2240-45	2.3mm x 45mm Locking Peg	3
30-2240-50	2.3mm x 50mm Locking Peg	3
00-2113-01	Quick Release Hex Driver Tip 1.5mm, Short	2
00-0079-20	Threaded Drill Guide, Triangular, 2.0mm	2

Ordering Information

00-9043-00 3.5mm Plate Set

00-0901-00	2.8mm Locking Drill Guide 6-65mm	1
00-0902-00	2.0mm Locking Drill Guide 6-65mm	1
00-0903-00	2.0mm Quick Release Drill	2
00-0904-00	2.8mm Quick Release Drill	2
00-0905-00	Small Ratchet Handle With Quick Release Connection	1
00-1011-01	Quick Release Handle	1
00-2113-03	Quick Release Torx Driver Tip, T15, Small Fragment, Short	2
00-0907-00	6mm-70mm Depth Gauge, 2mm Increments	1
00-0908-00	3.5mm x5" Quick Release Drill	2
00-0909-00	2.7mm Cortical Screw Bone Tap	1
00-0910-00	3.5mm Cortical Screw Bone Tap	1
00-0911-00	3.5mm Screw Driver Sleeve	1
00-0912-00	Plate Bender	1
00-0913-00	Plate Bender, Large	1
00-0914-00	Cortical and Cancellous Screw Countersink	1
00-0915-00	Offset Drill Guide	1
00-0916-00	2.0mm / 2.8mm Thin Drill Guide	1
00-0917-00	2.8mm / 3.5mm Thin Drill Guide	3
00-0918-00	Plate Tack	2
00-0934-00	2.7mm Locking Drill Guide	1
00-0933-00	2.0mm Locking Drill Guide	1
00-3201-01	Quick Release Drill, 2.0mm Diameter, Short	2
00-3281-01	Quick Release Drill, 2.8mm Diameter, Short	2
00-0919-00	.045"x 6" ST Guide Wire	4
00-0920-00	.062"x 6" Guide Wire	4
00-0921-00	8" Bone Reduction Forceps	1
00-0923-00	Periosteal Elevator, 7.25"	1
00-0924-00	15 mm Hohmann Retractor	1
00-0926-00	Inge Retractor, 6.5"	1
00-0927-00	Needle Nose Pliers, 5.5"	1
00-0928-00	Feer Elevator, 7.5"	1
00-0929-00	Small Pointed Reduction Forceps	1
00-0930-00	Reduction Forceps with Serrated Jaw	2
00-0932-00	Sharp Hook	1
00-0935-00	Periosteal Elevator, 7.25", Curved	1

Ordering Information

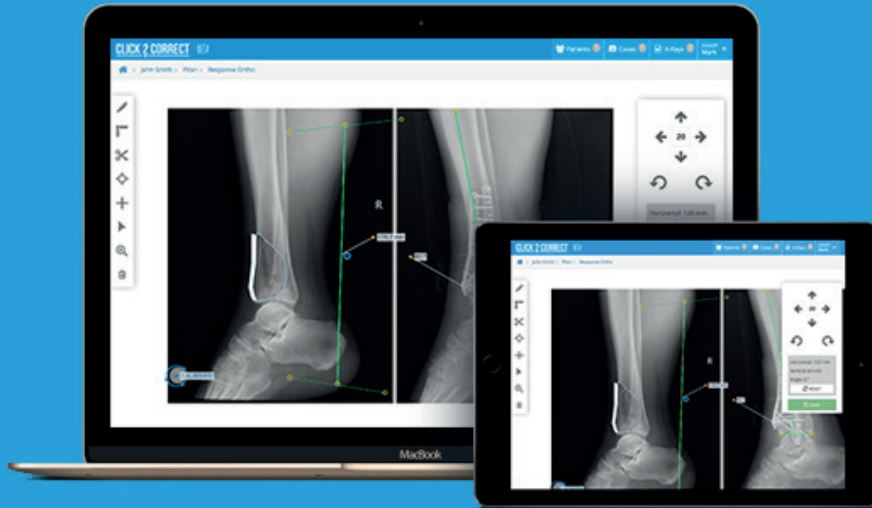
31-1401-08	4.0mm x 8.0mm	Cancellous Torx Head Screw, ST	2
31-1401-10	4.0mm x 10.0mm	Cancellous Torx Head Screw, ST	2
31-1401-12	4.0mm x 12.0mm	Cancellous Torx Head Screw, ST	2
31-1401-14	4.0mm x 14.0mm	Cancellous Torx Head Screw, ST	2
31-1401-16	4.0mm x 16.0mm	Cancellous Torx Head Screw, ST	2
31-1401-18	4.0mm x 18.0mm	Cancellous Torx Head Screw, ST	2
31-1401-20	4.0mm x 20.0mm	Cancellous Torx Head Screw, ST	2
31-1401-22	4.0mm x 22.0mm	Cancellous Torx Head Screw, ST	2
31-1401-24	4.0mm x 24.0mm	Cancellous Torx Head Screw, ST	2
31-1401-26	4.0mm x 26.0mm	Cancellous Torx Head Screw, ST	2
31-1401-28	4.0mm x 28.0mm	Cancellous Torx Head Screw, ST	2
31-1401-30	4.0mm x 30.0mm	Cancellous Torx Head Screw, ST	2
31-1401-35	4.0mm x 35.0mm	Cancellous Torx Head Screw, ST	2
31-1401-40	4.0mm x 40.0mm	Cancellous Torx Head Screw, ST	2
31-1401-45	4.0mm x 45.0mm	Cancellous Torx Head Screw, ST	2
31-1401-50	4.0mm x 50.0mm	Cancellous Torx Head Screw, ST	2
31-1401-55	4.0mm x 55.0mm	Cancellous Torx Head Screw, ST	2
31-1401-60	4.0mm x 60.0mm	Cancellous Torx Head Screw, ST	2

31-1271-08	2.7mm x 8.0mm	Cortical Torx Head Screw, ST	3
31-1271-10	2.7mm x 10.0mm	Cortical Torx Head Screw, ST	3
31-1271-12	2.7mm x 12.0mm	Cortical Torx Head Screw, ST	6
31-1271-14	2.7mm x 14.0mm	Cortical Torx Head Screw, ST	3
31-1271-16	2.7mm x 16.0mm	Cortical Torx Head Screw, ST	3
31-1271-18	2.7mm x 18.0mm	Cortical Torx Head Screw, ST	3
31-1271-20	2.7mm x 20.0mm	Cortical Torx Head Screw, ST	3
31-1271-22	2.7mm x 22.0mm	Cortical Torx Head Screw, ST	3
31-1271-24	2.7mm x 24.0mm	Cortical Torx Head Screw, ST	3
31-1271-26	2.7mm x 26.0mm	Cortical Torx Head Screw, ST	3
31-1271-28	2.7mm x 27.5mm	Cortical Torx Head Screw, ST	6
31-1271-30	2.7mm x 30.0mm	Cortical Torx Head Screw, ST	6
31-1271-32	2.7mm x 32.0mm	Cortical Torx Head Screw, ST	6
31-1271-34	2.7mm x 34.0mm	Cortical Torx Head Screw, ST	3
31-1271-36	2.7mm x 36.0mm	Cortical Torx Head Screw, ST	3
31-1271-38	2.7mm x 38.0mm	Cortical Torx Head Screw, ST	3
31-1271-40	2.7mm x 40.0mm	Cortical Torx Head Screw, ST	3
31-1271-45	2.7mm x 45.0mm	Cortical Torx Head Screw, ST	3
31-1271-50	2.7mm x 50.0mm	Cortical Torx Head Screw, ST	3
31-1271-55	2.7mm x 55.0mm	Cortical Torx Head Screw, ST	3

31-2271-08	2.7 x 8.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-10	2.7 x 10.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-12	2.7 x 12.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-14	2.7 x 14.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-16	2.7 x 16.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-18	2.7 x 18.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-20	2.7 x 20.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-22	2.7 x 22.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-24	2.7 x 24.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-26	2.7 x 26.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-28	2.7 x 28.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-30	2.7 x 30.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-32	2.7 x 32.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-34	2.7 x 34.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-36	2.7 x 36.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-38	2.7 x 38.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-40	2.7 x 40.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-45	2.7 x 45.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-50	2.7 x 50.0mm	Locking Cortical Torx Head Screw, ST	3
31-2271-55	2.7 x 55.0mm	Locking Cortical Torx Head Screw, ST	3

31-1351-08	3.5mm x 8.0mm	Cortical Torx Head Screw, ST	6	31-2351-08	3.5 x 8.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-10	3.5mm x 10.0mm	Cortical Torx Head Screw, ST	6	31-2351-10	3.5 x 10.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-12	3.5mm x 12.0mm	Cortical Torx Head Screw, ST	6	31-2351-12	3.5 x 12.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-14	3.5mm x 14.0mm	Cortical Torx Head Screw, ST	6	31-2351-14	3.5 x 14.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-16	3.5mm x 16.0mm	Cortical Torx Head Screw, ST	6	31-2351-16	3.5 x 16.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-18	3.5mm x 18.0mm	Cortical Torx Head Screw, ST	6	31-2351-18	3.5 x 18.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-20	3.5mm x 20.0mm	Cortical Torx Head Screw, ST	6	31-2351-20	3.5 x 20.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-22	3.5mm x 22.0mm	Cortical Torx Head Screw, ST	6	31-2351-22	3.5 x 22.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-24	3.5mm x 24.0mm	Cortical Torx Head Screw, ST	6	31-2351-24	3.5 x 24.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-26	3.5mm x 26.0mm	Cortical Torx Head Screw, ST	6	31-2351-26	3.5 x 26.0mm	Locking Cortical Torx Head Screw, ST	6
31-1351-28	3.5mm x 27.5mm	Cortical Torx Head Screw, ST	6	31-2351-28	3.5 x 28.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-30	3.5mm x 30.0mm	Cortical Torx Head Screw, ST	6	31-2351-30	3.5 x 30.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-32	3.5mm x 32.0mm	Cortical Torx Head Screw, ST	6	31-2351-32	3.5 x 32.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-34	3.5mm x 34.0mm	Cortical Torx Head Screw, ST	6	31-2351-34	3.5 x 34.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-36	3.5mm x 36.0mm	Cortical Torx Head Screw, ST	6	31-2351-36	3.5 x 36.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-38	3.5mm x 38.0mm	Cortical Torx Head Screw, ST	3	31-2351-38	3.5 x 38.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-40	3.5mm x 40.0mm	Cortical Torx Head Screw, ST	3	31-2351-40	3.5 x 40.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-45	3.5mm x 45.0mm	Cortical Torx Head Screw, ST	3	31-2351-45	3.5 x 45.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-50	3.5mm x 50.0mm	Cortical Torx Head Screw, ST	3	31-2351-50	3.5 x 50.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-55	3.5mm x 55.0mm	Cortical Torx Head Screw, ST	3	31-2351-55	3.5 x 55.0mm	Locking Cortical Torx Head Screw, ST	3
31-1351-60	3.5mm x 60.0mm	Cortical Torx Head Screw, ST	3	31-2351-60	3.5 x 60.0mm	Locking Cortical Torx Head Screw, ST	3

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