

ANKLE

SYSTEM

Fibula Locking Plate System



HNMM
TOTAL RECON

📍 20855 Northeast 16th Avenue, Suite C15

Miami, FL 33179

☎ 1.866.291.8498 - 1.888.608.9788

🌐 www.hnmmedical.com

✉ Info@hnmtotal.com



ANKLE

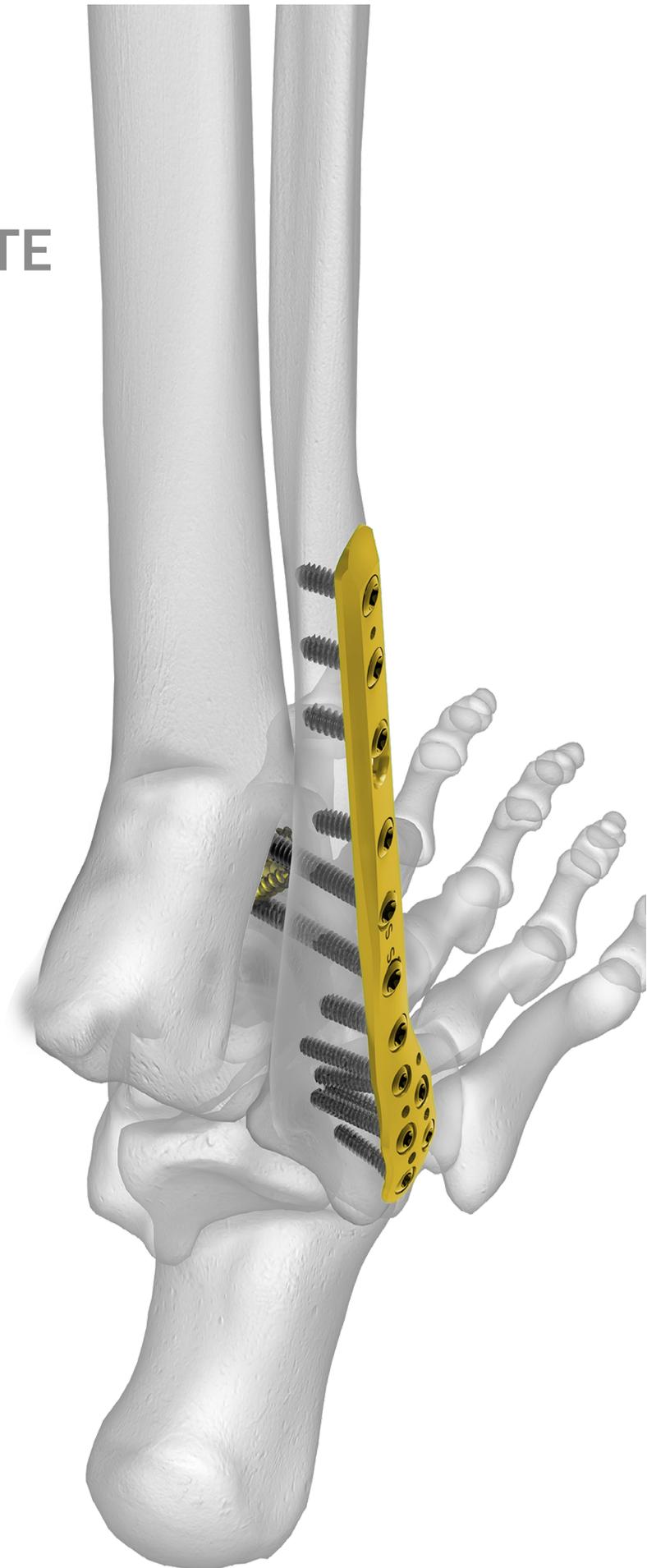
FIBULA LOCKING PLATE

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HNM Total Recon is committed in providing surgeons and health care professionals with advanced surgical solutions for effective and time-saving treatment of their patients. Our most important task is meeting surgeons' needs. We accomplish this by creating key partnerships and driving innovative product development.





HNM FIBULA LOCKING

PLATE

INDICATIONS

HNM FibulaLocking Plate System is intended for use in temporary internal fixation and stabilization of fractures, osteotomies, and non-unions of the distal fibula.

PRODUCT OVERVIEW

Plate Specifications

ITEM #	Thickness	Length	Holes on the shaft	Color	Material
Lateral Distal Fibula Plates	2.0mm	62 - 122mm	3 - 8	Gold	Pure Titanium Gr.4
Straight Distal Fibula Plates	2.0mm	38 - 122mm	3 - 10	Blue	Pure Titanium Gr.4

Screw Specifications

PLATES	Thickness	Length	Holes on the shaft	Color	Material
Locking screws	2.0mm	62 - 122mm	3 - 8	Gold	Pure Titanium Gr.4
Cortical Screws (Non-Locking)	2.0mm	38 - 122mm	3 - 10	Blue	Pure Titanium Gr.4

Color Coding

Locking Screws : Silver

Cortical Screws : Silver

Lateral Fibula Plates: Gold

Straight Fibula Plates : Blue



Materials of Implants:

All plates are made from pure titanium material in conformity with ASTM F67.

All screws are made from titanium alloy material in conformity with ASTM F136.

The titanium is an ideal material for implant. It is biocompatible, corrosion resistant, and non-toxic in biological environment.



SCREW

Head Recess

Self-retaining Hexagonal Recess for connection between Screw Head and Screwdriver Shaft



Cortical Screw
(Non-Locking)



Locking Screw

SCREW OPTIONS

Self-tapping Cortical Screws : Length 10 ~ 70mm

Self-tapping Locking Screws : Length 10 ~ 50mm

Outer Diameter : \varnothing 3.5mm



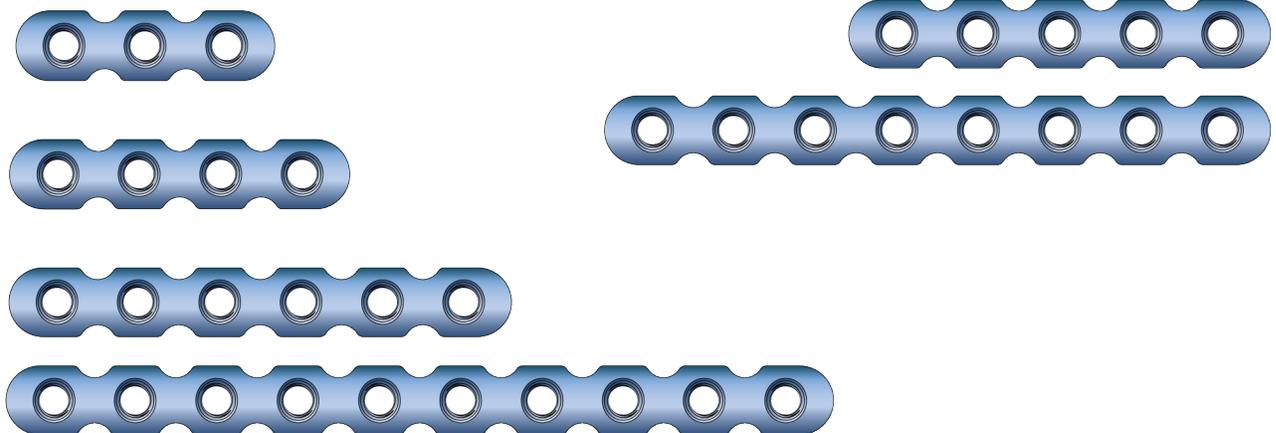
12 LATERAL DISTAL FIBULA LOCKING PLATES FOR LEFT AND RIGHT FIBULAS.



PLATE

OPTIONS

6 STRAIGHT DISTAL FIBULA LOCKING PLATES





FEATURES & BENEFITS



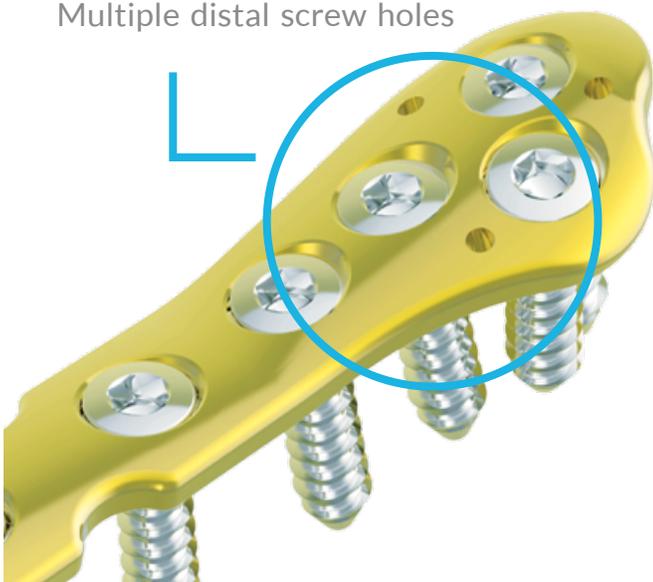
ANATOMICALLY PRE-CONTOURED PLATE DESIGN

The pre-contoured ARIX Fibula plates fit the average shape of the distal fibula and thus requires minimal plate bending. Additional bending of distal fibula plates could be needed depending on patients' bone anatomy. Plate bending can be done by using the Plate Bender (111-088)

CLUSTERING OF DISTAL SCREWS

Multiple distal screws on the head of the lateral plate enable stable periarticular fixation by providing multiple points of fixation in fractures with multiple fragments or limited distal bone stock.

Multiple distal screw holes



ANATOMICAL TWIST BODY OF THE LATERAL PLATE

Anatomical twist body of the lateral plate to accommodate the lateral anatomy of the distal fibula.



BENEFITS OF LOCKING PLATING SYSTEM

Locking plate and screw system provides more stable fixation than conventional plate and screw system. Locking screws will not be loosened from the plate during the healing process. Locking screws do not rely on bone to plate compression. A fixed angle construct can be created by using locking screws in osteopenic bone or multi-fragmentary fractures where secure bone purchase with conventional screws may be compromised.

POLY-AXIAL LOCKING SYSTEM

The poly-axial hole of a plate accepts locking or cortical screws as surgical needs. Locking screws as well as cortical screws can be inserted in $\pm 10^\circ$ with respect to the plate in any direction.

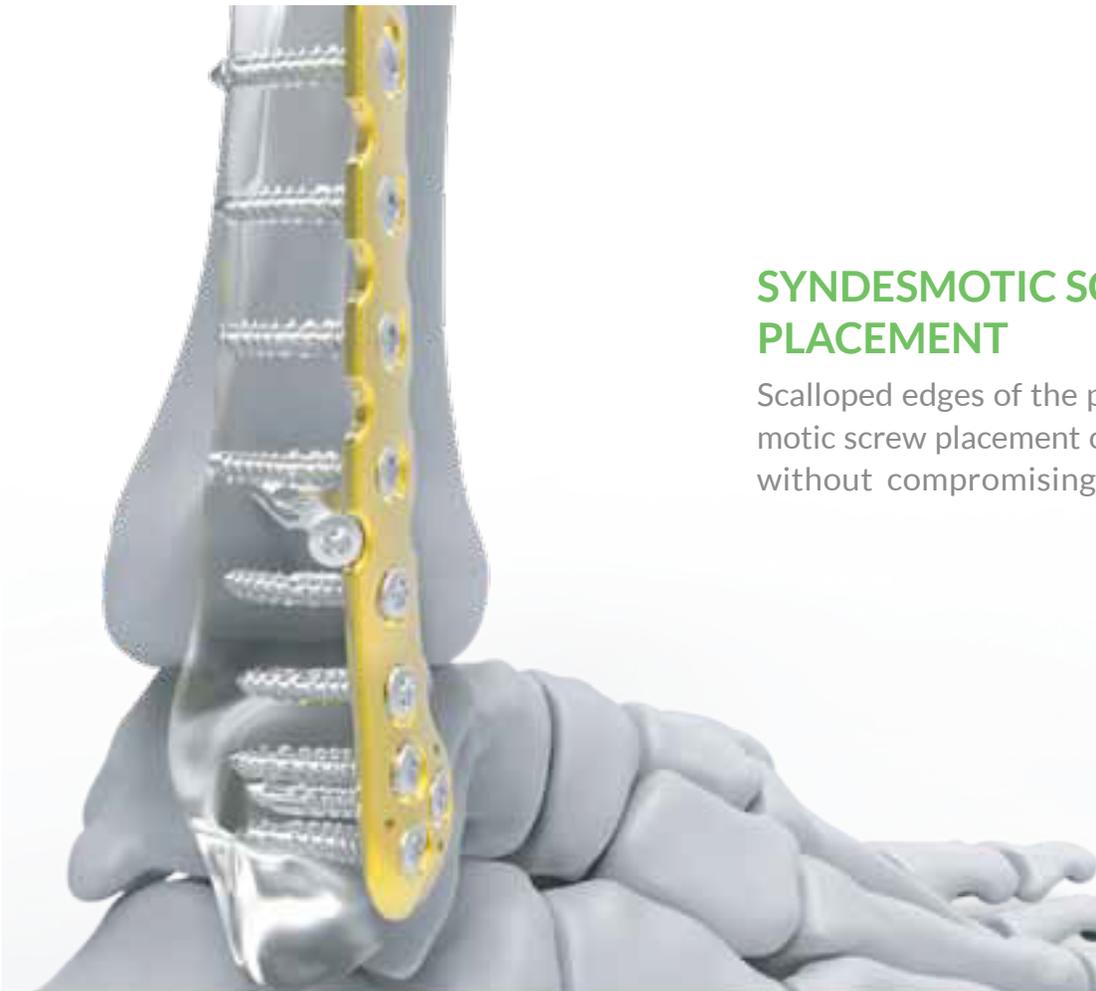


GUIDE PIN HOLES FOR TEMPORARY PLATE FIXATION

The Guide pin holes in the head of the lateral plate accept up to 1.6mm Guide Pin. Guide pins can be placed for temporary maintenance of bone reduction and provisional plate fixation.

SYNDESMOTIC SCREW PLACEMENT

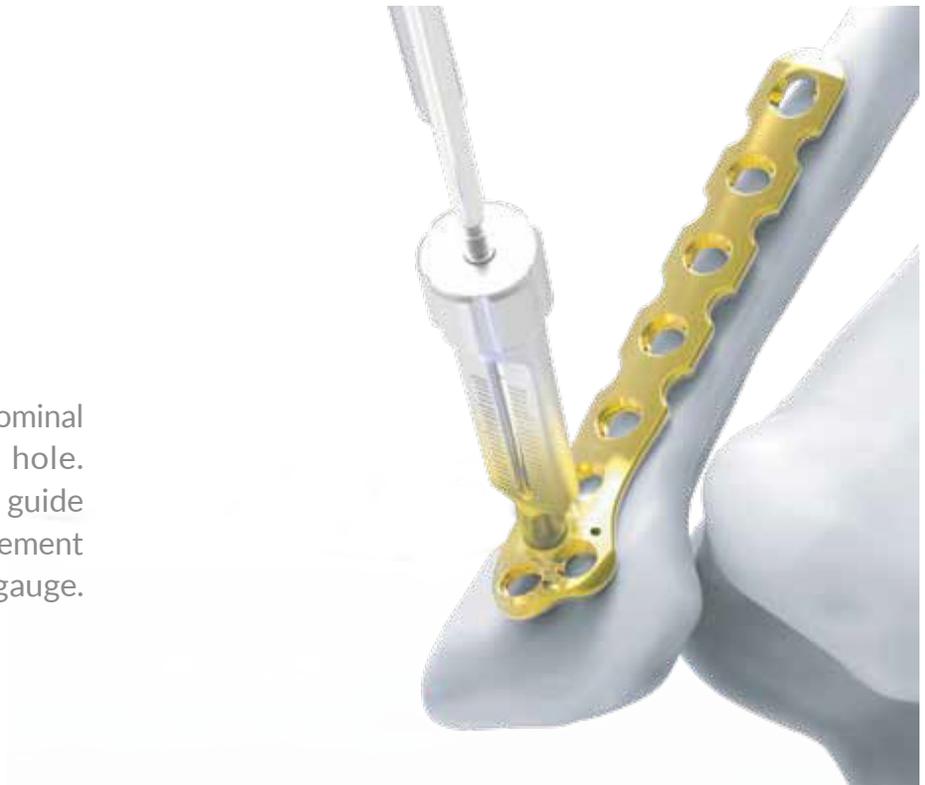
Scalloped edges of the plate for syndesmotic screw placement outside the plate without compromising plate position.





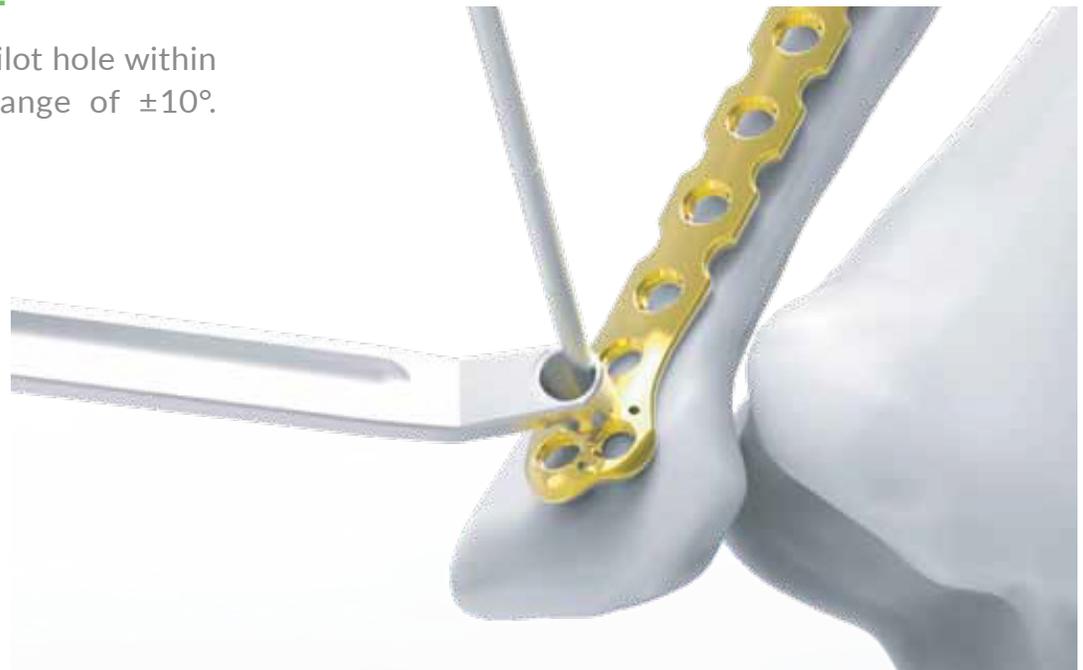
FIXED ANGLE DRILL SLEEVE

Helps to drill a pilot hole in the nominal trajectory of each locking hole. Scales are marked on the drill guide & bit for prompt depth measurement without the help of a depth gauge.



VARIABLE ANGLE DRILL GUIDE

Helps to drill a pilot hole within the poly-axial range of $\pm 10^\circ$.





ORDERING INFORMATION PLATES

STRAIGHT DISTAL FIBULA LOCKING PLATES

Common Dimensions

Thickness of Shaft: 2.0 mm

Plate Color: Blue



35-DLST-003

Straight Distal Fibula
Locking Plate,
Length 38mm, 3
Holes



35-DLST-004

Straight Distal Fibula
Locking Plate,
Length 50mm, 4 Holes



35-DLST-005

Straight Distal
Fibula Locking
Plate, Length
62mm, 5 Holes



35-DLST-006

Straight Distal Fibula Locking Plate,
Length 74mm, 6 Holes

35-DLST-008



Straight Distal Fibula Locking Plate,
Length 98mm, 8 Holes



35-DLST-010

Straight Distal Fibula Locking Plate,
Length 122mm, 10 Holes



LATERAL DISTAL FIBULA LOCKING PLATES



Lateral Distal Fibula
Locking Plate, Left,
Length 62mm,
3 Shaft Holes



Lateral Distal Fibula
Locking Plate, Right,
Length 62mm,
3 Shaft Holes

COMMON DIMENSIONS

Thickness of Shaft: 2.0 mm

Thickness of Distal End: 1.6mm

Width of Shaft: 7mm

Distal Holes: 4 Holes

Plate Color: Gold



Lateral Distal Fibula
Locking Plate, Left,
Length 74mm,
4 Shaft Holes



Lateral Distal Fibula
Locking Plate, Right,
Length 74mm,
4 Shaft Holes



Lateral Distal Fibula
Locking Plate, Left,
Length 86mm,
5 Shaft Holes



Lateral Distal Fibula
Locking Plate, Right,
Length 86mm
5 Shaft Holes



Lateral Distal Fibula
Locking Plate, Left,
Length 98mm,
6 Shaft Holes



Lateral Distal
Fibula Locking Plate, Left,
Length 110mm,
7 Shaft Holes



Lateral Distal Fibula
Locking Plate, Right,
Length 98mm,
6 Shaft Holes



Lateral Distal
Fibula Locking Plate, Left,
Length 122mm,
8 Shaft Holes



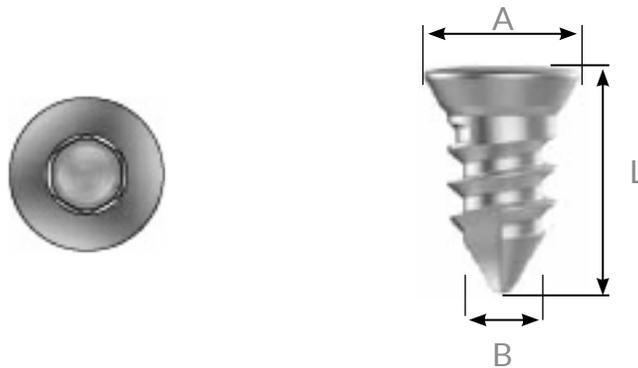
Lateral Distal Fibula
Locking Plate, Right,
Length 110mm,
7 Shaft Holes



Lateral Distal
Fibula Locking Plate, Right,
Length 122mm,
8 Shaft Holes



3.5MM SELF-TAPPING CORTICAL SCREWS (NON-LOCKING)



Unit:mm

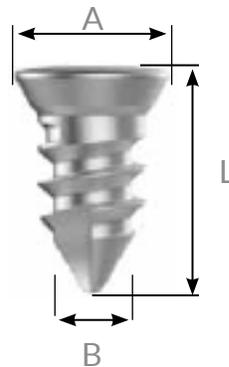
Item #	Head Diameter (A)	Outer Diameter (B)	Length (L)
35-FC-010			10
35-FC-012			12
35-FC-014			14
35-FC-016			16
35-FC-018			18
35-FC-020			20
35-FC-022			22
35-FC-024			24
35-FC-028			28
35-FC-032	ø5.0	ø3.5	32
35-FC-036			36
35-FC-040			40
35-FC-045			45
35-FC-050			50
35-FC-055			55
35-FC-060			60
35-FC-065			65
35-FC-070			70



3.5MM SELF-TAPPING LOCKING SCREWS

Unit:mm

Item #	Head Diameter (A)	Outer Diameter (B)	Length (L)
35-FC-010			10
35-FC-012			12
35-FC-014			14
35-FC-016			16
35-FC-018			18
35-FC-020			20
35-FC-022			22
35-FC-024			24
35-FC-028			28
35-FC-032	Ø5.0	Ø3.5	32
35-FC-036			36
35-FC-040			40
35-FC-045			45
35-FC-050			50
35-FC-055			55
35-FC-060			60
35-FC-065			65
35-FC-070			70





ORDERING INFORMATION INSTRUMENTS



111-089
Drill Guide
for Ø2.7mm Drill Bit



111-087
Fixed Angle Drill Sleeve for
Ø2.7mm Drill bit



111-063
Screwdriver Handle



111-100
Lag & Compression Drill
Guide for Ø3.6 & Ø2.7mm
Drill Bit



111-086
Depth Gauge



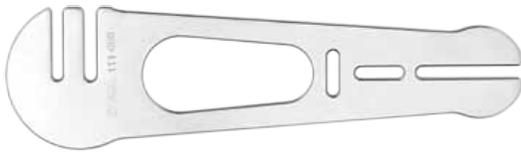
111-096
Guide Pin Dispenser

**BD-05**

Grasping Forceps

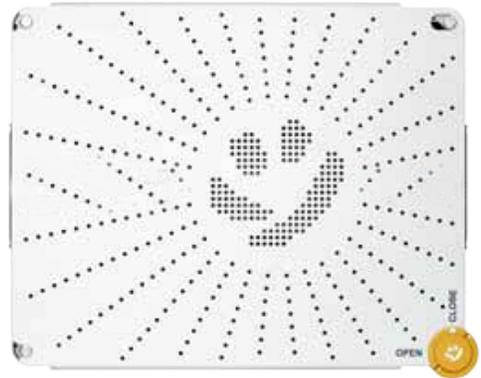
**114-009**

Grasping Forceps, Optional

**111-088**

Bender

Used as a pair)

**112-087**

Fibula Locking Plate System Container

**111-068-3**

Guide Pin Ø1.6mm

**112-35-603**

Drill Bit Ø2.7mm for 3.5mm Screws

**112-35-603**

Drill Bit Ø2.7mm for 3.5mm Screws

**112-35-601-L**

Drill Bit Ø3.6mm for Lag Screw Technique



SET CONFIGURATION SUGGESTION

Implants (Screws)

ARIX ANKLE Ø3.5 Fibular Locking Plate

Unit:mm

Item #	Description	Set Quantity
35L-HF-010	3.5 Locking Screw, Length 10mm	10
35L-HF-012	3.5 Locking Screw, Length 12mm	15
35L-HF-014	3.5 Locking Screw, Length 14mm	15
35L-HF-016	3.5 Locking Screw, Length 16mm	15
35L-HF-018	3.5 Locking Screw, Length 18mm	10
35L-HF-020	3.5 Locking Screw, Length 20mm	10
35L-HF-022	3.5 Locking Screw, Length 22mm	10
35L-HF-024	3.5 Locking Screw, Length 24mm	10
35L-HF-028	3.5 Locking Screw, Length 28mm	10
35L-HF-032	3.5 Locking Screw, Length 32mm	10
35L-HF-036	3.5 Locking Screw, Length 36mm	5
35L-HF-040	3.5 Locking Screw, Length 40mm	5
35L-HF-045	3.5 Locking Screw, Length 45mm	5
35L-HF-050	3.5 Locking Screw, Length 50mm	5
35-FC-010	3.5 Non-Locking Screw, Length 10mm	8
35-FC-012	3.5 Non-Locking Screw, Length 12mm	8
35-FC-014	3.5 Non-Locking Screw, Length 14mm	8
35-FC-016	3.5 Non-Locking Screw, Length 16mm	8
35-FC-018	3.5 Non-Locking Screw, Length 18mm	8
35-FC-020	3.5 Non-Locking Screw, Length 20mm	8
35-FC-022	3.5 Non-Locking Screw, Length 22mm	8
35-FC-024	3.5 Non-Locking Screw, Length 24mm	8
35-FC-028	3.5 Non-Locking Screw, Length 28mm	8
35-FC-032	3.5 Non-Locking Screw, Length 32mm	4
35-FC-036	3.5 Non-Locking Screw, Length 36mm	4
35-FC-040	3.5 Non-Locking Screw, Length 40mm	4
35-FC-045	3.5 Non-Locking Screw, Length 45mm	4
35-FC-050	3.5 Non-Locking Screw, Length 50mm	4
35-FC-055	3.5 Non-Locking Screw, Length 55mm	4
35-FC-060	3.5 Non-Locking Screw, Length 60mm	4
35-FC-065	3.5 Non-Locking Screw, Length 65mm	4
35-FC-070	3.5 Non-Locking Screw, Length 70mm	4



SET CONFIGURATION SUGGESTION

Implants (Plates)

ARIX ANKLE \varnothing 3.5 Fibular Locking Plate

Item #	Description	Set Quantity
35-DLFI-003-L	Lateral Distal Fibula, Left, Length 62mm, 3 Shaft Holes	3
35-DLFI-004-L	Lateral Distal Fibula, Left, Length 74mm, 4 Shaft Holes	3
35-DLFI-005-L	Lateral Distal Fibula, Left, Length 86mm, 5 Shaft Holes	3
35-DLFI-006-L	Lateral Distal Fibula, Left, Length 98mm, 6 Shaft Holes	3
35-DLFI-007-L	Lateral Distal Fibula, Left, Length 110mm, 7 Shaft Holes	3
35-DLFI-008-L	Lateral Distal Fibula, Left, Length 122mm, 8 Shaft Holes	3
35-DLFI-003-R	Lateral Distal Fibula, Right, Length 62mm, 3 Shaft Holes	3
35-DLFI-004-R	Lateral Distal Fibula, Right, Length 74mm, 4 Shaft Holes	3
35-DLFI-005-R	Lateral Distal Fibula, Right, Length 86mm, 5 Shaft Holes	3
35-DLFI-006-R	Lateral Distal Fibula, Right, Length 98mm, 6 Shaft Holes	3
35-DLFI-007-R	Lateral Distal Fibula, Right, Length 110mm, 7 Shaft Holes	3
35-DLFI-008-R	Lateral Distal Fibula, Right, Length 122mm, 8 Shaft Holes	3
35-DLST-003	Straight Distal Fibula, Length 38mm, 3 Holes	3
35-DLST-004	Straight Distal Fibula, Length 50mm, 4 Holes	3
35-DLST-005	Straight Distal Fibula, Length 62mm, 5 Holes	3
35-DLST-006	Straight Distal Fibula, Length 74mm, 6 Holes	3
35-DLST-008	Straight Distal Fibula, Length 98mm, 8 Holes	3
35-DLST-010	Straight Distal Fibula, Length 122mm, 10 Holes	3

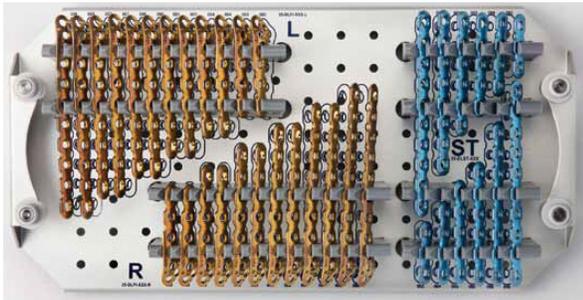


SET CONFIGURATION SUGGESTION

Ø3.5 Fibular Locking Plate



Instruments for Distal Fibula Plates and Screws



Lateral Distal Fibula Plates and Straight Distal Fibula Plates



Ø3.5 Locking and Cortical Screws

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