

summa
ortho

FOOT SYSTEM

2.8 / 3.5 Locking Plate System and Surgical Guide



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The **SUMMA Foot System** is intended for use in internal fixation, reconstruction, or arthrodesis of small bones including the fore, mid- and hind foot and ankle.

Examples of these procedures may include but are not limited to replantation, lag screw techniques, joint fusions, corrective osteotomies, and the treatment of fractures.



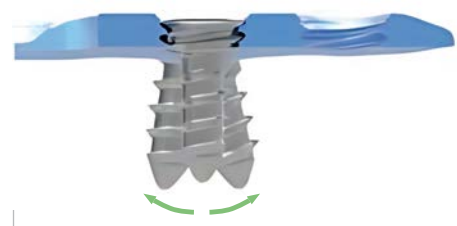
Comprehensive Locking and Non-Locking System

Each hole of ARIX Foot plates accepts locking and non-locking screws



Variable Angle Locking

- Every screw hole in the ARIX Foot Plates except the compression slots allows 10° off-axis screw angulation in all directions.
- Locking screws can be angled and locked up to 10° off-axis in each direction for a total range of 20°.
- Each plate can accommodate a variety of locking or non-locking screws in various angles for creation of customized, multi directional locked plating constructs.



ARIX Foot plate with rounded edges is designed to ensure low profile fixation to minimize soft tissue irritation. All screws in ARIX Foot system are designed for minimal screw head prominence when inserted at angles up to 10° to reduce the potential for soft tissue irritation.



Many of the ARIX FOOT plates incorporate a compression slot(s) used to assist in compression of fractures or fusions. The act of inserting a ARIX Foot Screw into the oval compression hole creates compression by causing the screw to glide into the compression slot.



Screw head HexDrive recess

- Secure connection between screw and screwdriver for excellent self-retaining
- Increased Torque transmission from the screwdriver to the screw and reduce the potential for screw head stripping.



Locking Bone Screw

- Hexa Drive Recess for secure retention and torque transmission
- Low Profile Screw Head for Less Palpability
- Self-Tapping Flute
- 10° Variable Angle Locking System
- Ø2.8mm Locking Screws for Mid-foot
- Ø3.5mm Locking Screws for Calcaneus Bone
- Titanium Alloy Material



Cortical Bone Screw

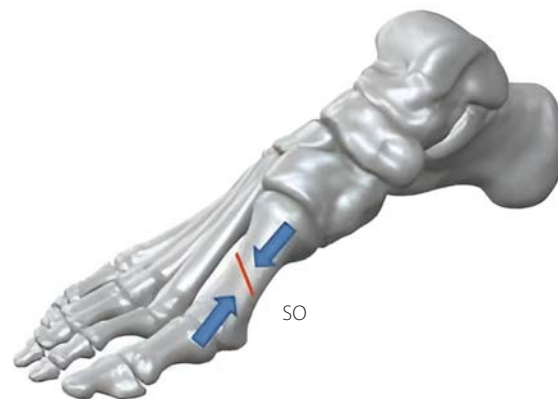
- Hexa Drive Recess for secure retention and torque transmission
- Low Profile Screw Head for Less Palpability
- Self-Tapping Flute
- Ø2.8mm Locking Screws for Mid-foot
- Ø3.5mm Locking Screws for Calcaneus Bone
- Titanium Alloy Material



Surgical Technique – 2.8 / 3.5 Series

1. Reduction of Fracture Bone

Adjust the bone fracture line.



2. Plate Selection and Plate Positioning

Select the appropriate plate and position the plate.



3. Drilling (Using Drill Bits, Drill Guide or Drill Sleeve)

Drill using the drill bits over the drill guide or drill sleeve to the desired depth.

Instruments

Code	Description
SO-112-28-701, SO-112-35-703	Drill Bits
SO-111-055, SO-111-056	Drill Guides
SO-111-070, SO-111-071, SO-111-073, SO-111-074	Drill Sleeves



4. Measure for Screw Length

Use a depth gauge to measure the Hole Depth.

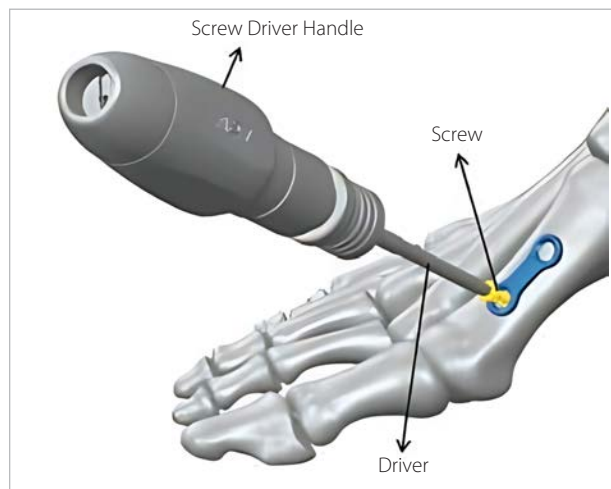
Instrument	
Code	Description
SO-111-066	Depth gauge



5. Insert Screw

Use the Screw Driver Handle and Driver to insert the appropriate length screw.

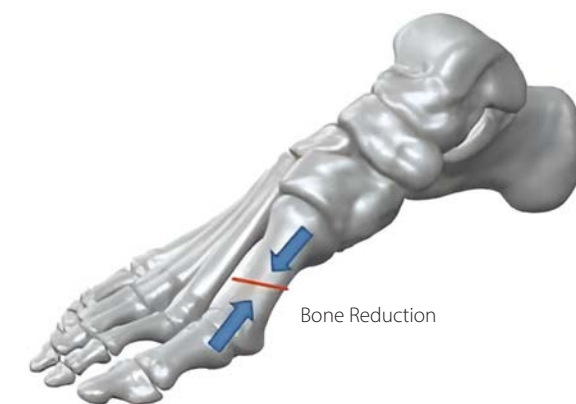
Instruments	
Code	Description
SO-111-063	Screw Driver Handle
SO-113-HF-606	Driver
SO-28-SO-L, SO-35-SO-L, SO-28L-SO-L, SO-35L-SO-L Series	Screws



Lag Screw Technique (optional)

1. Reduction of Fracture Bone

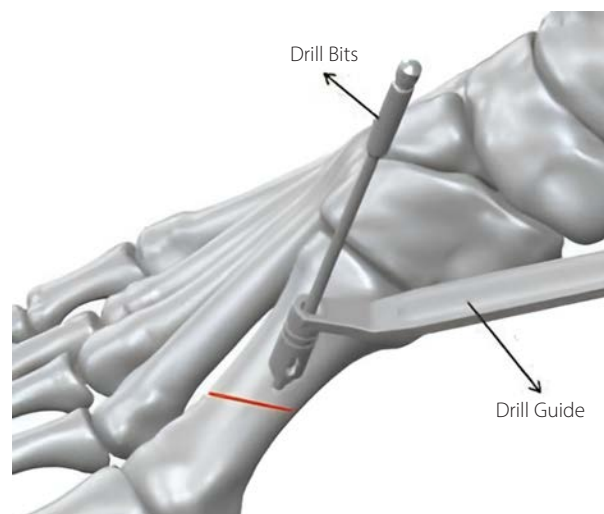
Adjust the bone fracture line.



2. Drilling (Using Drill Bits, Drill Guide)

Drill using the drill bits over the drill guide.

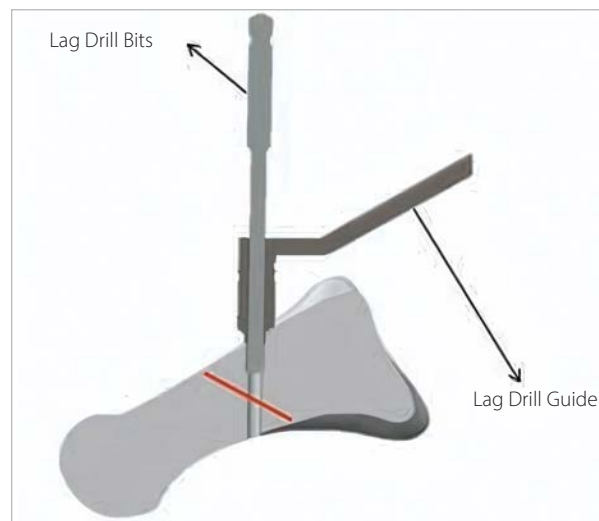
<i>Instruments</i>		
<i>Code</i>	<i>Description</i>	
SO-112-28-701, SO-112-35-703	Drill Bits	
SO-111-055, SO-111-056	Drill Guides	



3. Reaming (Using Lag Drill Bits, Lag Drill Guide)

Reaming the hole more than the external diameter of screw using the lag drill bits over the lag drill guide.

<i>Instruments</i>		
<i>Code</i>	<i>Description</i>	
SO-112-28-701-L, SO-112-35-701-L	Lag Drill Bits	
SO-111-060	Lag Drill Guide	



4. Counter Sinking

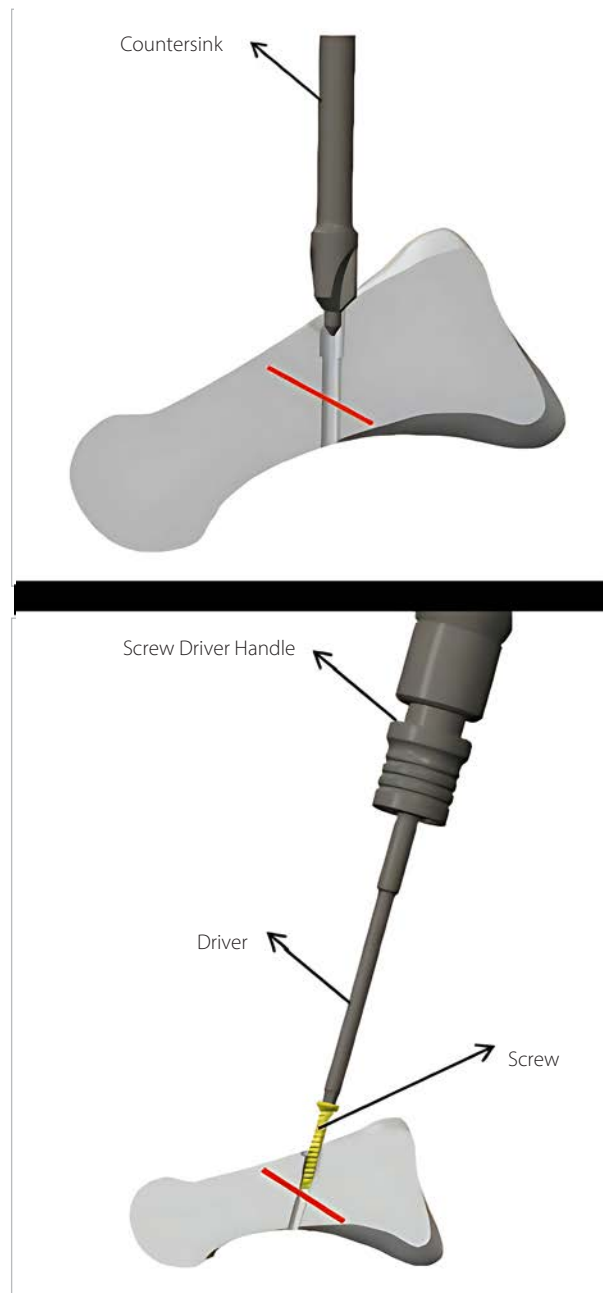
Create a platform in the near cortex using countersink.

<i>Instrument</i>	
<i>Code</i>	<i>Description</i>
SO-111-143	Countersink

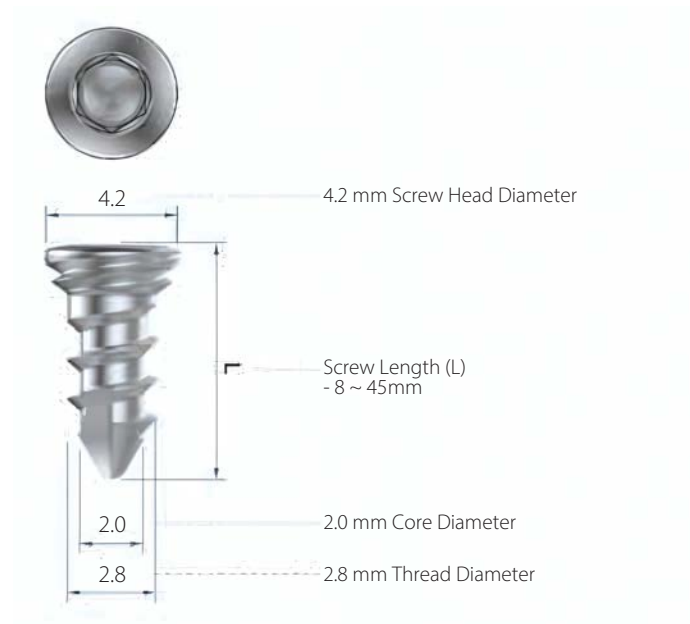
5. Insert Screw

Use the screw driver handle and driver to insert the appropriate length screw.

<i>Instruments</i>		
<i>Code</i>	<i>Description</i>	
SO-111-063	Screw Driver Handle	
SO-113-HF-606	Driver	
SO-28-SO-L, SO-35-SO-L Series	Screws	



2.8 Locking Bone Screw

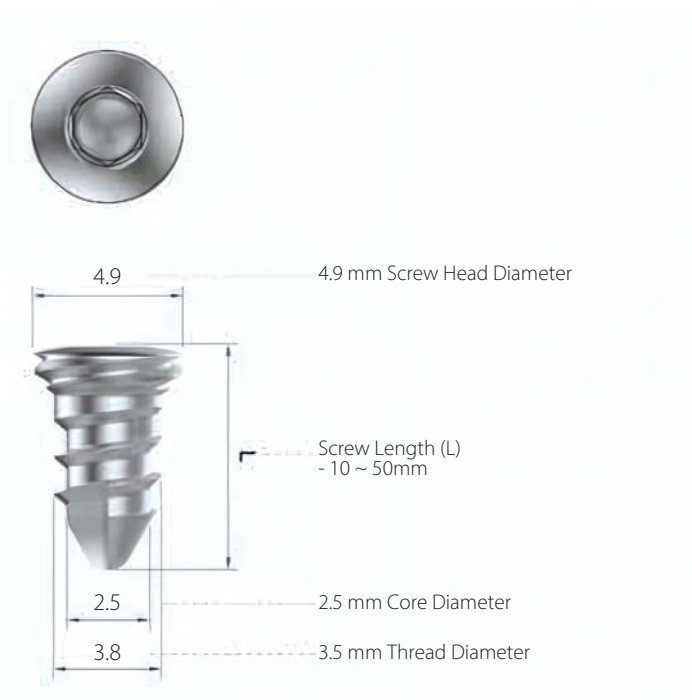


Long Thread Screw

[Unit: mm]

Code	Screw Head Diameter	Core Diameter	Thread Diameter	Screw Length
SO28L-HF-008	4.2	2.0	2.8	8
SO-28L-HF-010				10
SO-28L-HF-012				12
SO-28L-HF-014				14
SO-28L-HF-016				16
SO-28L-HF-018				18
SO-28L-HF-020				20
SO-28L-HF-022				22
SO-28L-HF-024				24
SO-28L-HF-026				26
SO-28L-HF-028				28
SO-28L-HF-030				30
SO-28L-HF-032				32
SO-28L-HF-034				34
SO-28L-HF-036				36
SO-28L-HF-038				38
SO-28L-HF-040				40
SO-28L-HF-045				45

3.5 Locking Bone Screw

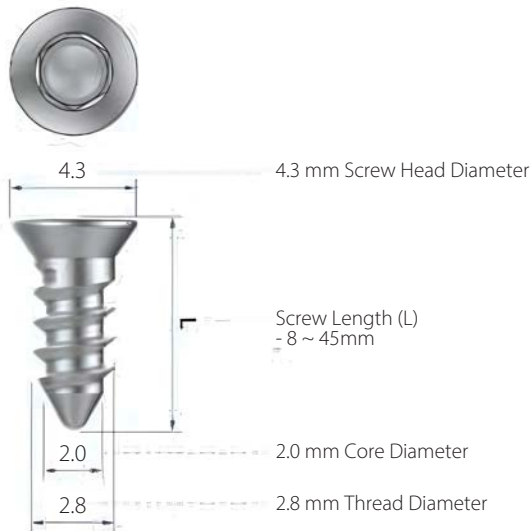


Long Thread Screw

[Unit: mm]

Code	Screw Head Diameter	Core Diameter	Thread Diameter	Screw Length
SO-35L-HF-010	4.9	2.5	3.5	10
SO-35L-HF-012				12
SO-35L-HF-014				14
SO-35L-HF-016				16
SO-35L-HF-018				18
SO-35L-HF-020				20
SO-35L-HF-022				22
SO-35L-HF-024				24
SO-35L-HF-028				28
SO-35L-HF-032				32
SO-35L-HF-036				36
SO-35L-HF-040				40
SO-35L-HF-045				45
SO-35L-HF-050				50

2.8 Cortical Bone Screw

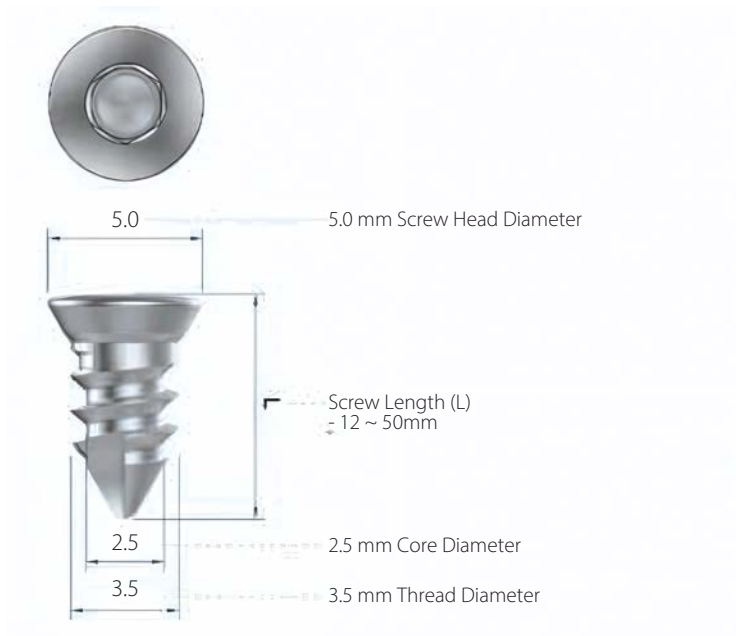


Screw

[Unit: mm]

Code	Screw Head Diameter	Core Diameter	Thread Diameter	Screw Length
SO-28-FC-008	4.3	2.0	2.8	8
SO-28-FC-010				10
SO-28-FC-012				12
SO-28-FC-014				14
SO-28-FC-016				16
SO-28-FC-018				18
SO-28-FC-020				20
SO-28-FC-022				22
SO-28-FC-024				24
SO-28-FC-026				26
SO-28-FC-028				28
SO-28-FC-030				30
SO-28-FC-032				32
SO-28-FC-034				34
SO-28-FC-036				36
SO-28-FC-038				38
SO-28-FC-040				40
SO-28-FC-045				45

3.5 Cortical Bone Screw



Screw

[Unit: mm]

Code	Screw Head Diameter	Core Diameter	Thread Diameter	Screw Length
SO-35-FC-010	5.0	2.5	3.5	10
SO-35-FC-012				12
SO-35-FC-014				14
SO-35-FC-016				16
SO-35-FC-018				18
SO-35-FC-020				20
SO-35-FC-022				22
SO-35-FC-024				24
SO-35-FC-028				28
SO-35-FC-032				32
SO-35-FC-036				36
SO-35-FC-040				40
SO-35-FC-045				45
SO-35-FC-050				50

2.8 mm Plates



2.8mm Double compression Straight Plates

- Fracture of the diaphysis of the 5th metatarsal (Jones fracture)
- Calcaneocuboid fusion
- Rounded edges to reduce the potential for soft tissue irritation
- Pre-contoured plate design
- 1.6mm thickness

Plate Type	Code	Holes	Thickness	Color
Straight	SO-F28-ST-002	2	1.6 mm	Blue
Straight	SO-F28-ST-102	2	1.6 mm	Blue



2.8mm Metatarsal fracture plates

- Designed for use in metatarsal fractures or osteotomies
- TMT fusion, Lateral column lengthening
- Compression slots for compression of fractures
- Rounded edges to reduce the potential for soft tissue irritation
- Pre-contoured plate design
- 1.6mm thickness

Plate Type	Code	Holes	Thickness	Color
Straight	SO-F28-ST-004	4	1.6 mm	Blue
Straight	SO-F28-ST-005	5	1.6 mm	Blue
Straight	SO-F28-ST-006	6	1.6 mm	Blue



2.8mm Metatarsocuneiform plates

- 2nd and 3rd TMT Fusion Plates
- Lisfranc dislocation/fracture/arthrodesis, Lapidus, MTP fusion
- Compression slot to compress the metatarsal and cuneiform
- 1.6mm thickness

Plate Type	Code	Holes	Thickness	Color
T	SO-F28-TP-007	7	1.6 mm	Blue
T	SO-F28-TP-006	6	1.6 mm	Blue



2.8mm 1st Metatarsal plates

- Designed for use in metatarsal fractures or osteotomies
- Rounded edges to reduce the potential for soft tissue irritation
- Pre-contoured plate design
- 1.6mm thickness

Plate Type	Code	Holes	Thickness	Color
T	SO-F28- GR-007	7	1.6 mm	Blue
T	SO-F28- GR-008	8	1.6 mm	Blue
T	SO-F28- GR-009	9	1.6 mm	Blue

2.8mm Cuboid fracture plates

- Lisfranc arthrodesis
- Easy bending and contouring plate design for anatomic fit
- Left and right plates
- 1.3mm and 1.6mm thicknesses



SO-F28-HP-010



SO-F28-HL-009



SO-F28-HR-009



SO-F28-HL-109



SO-F28-HR-109

Plate Type	Code	Holes	Thickness	Color
H	SO-F28-HP-010	10	1.3 mm	Blue
H	SO-F28-HL-009	9	1.6 mm	Blue
H	SO-F28-HR-009	9	1.6 mm	Blue
H	SO-F28-HL-109	9	1.6 mm	Blue
H	SO-F28-HR-109	9	1.6 mm	Blue

3.5mm Calcaneus Fracture Plates

- Easy bending and contouring plate design for anatomic fit
- Compression holes to assist in compression of fractures
- Multiple screw holes to address complex fractures of the calcaneus
- Temporary pinning hole
- Left and right plates
- 1.3mm and 1.6mm thickness options



SO-F35- CR-012-13
SO-F35- CR-012-16



SO-F35- CR-012-13
SO-F35- CR-012-16



SO-F35- CR-009



SO-F35-CL-012-13
SO-F35-CL-012-16



SO-F35-CL-012-13
SO-F35-CL-012-16



SO-F35-CL-009

Plate Type	Code	Holes	Thickness	Color
C	SO-F35-CR-012-13	12	1.3 mm	Blue
C	SO-F35-CR-012-16	12	1.6 mm	Blue
C	SO-F35-CL-012-13	12	1.3 mm	Blue
C	SO-F35-CL-012-16	12	1.6 mm	Blue
C	SO-F35-CR-012-13	12	1.3 mm	Blue
C	SO-F35-CR-012-16	12	1.6 mm	Blue
C	SO-F35-CL-012-13	12	1.3 mm	Blue
C	SO-F35-CL-012-16	12	1.6 mm	Blue
C	SO-F35-CL-112-13	12	1.3 mm	Blue
C	SO-F35-CL-112-16	12	1.6 mm	Blue
C	SO-F35-CR-009	9	1.6 mm	Blue
C	SO-F35-CL-009	9	1.6 mm	Blue

Instruments

Drill Guide Sleeves



SO-111-070



SO-111-071



SO-111-073



SO-111-074

Code	Description
SO-111-070	Drill Guide Sleeve for 2.8mm Screws
SO-111-071	Drill Guide Sleeve for 3.5mm Screws
SO-111-073	Drill Guide Sleeve for Variable angle 2.8mm Screws
SO-111-074	Drill Guide Sleeve for Variable angle 3.5mm Screws

Drill Guide



SO-111-055



SO-111-065



SO-111-060

Code	Description
SO-111-055	Drill Guide for 2.8mm Screws
SO-111-056	Drill Guide for 3.5 Screws
SO-111-060	Compression Drill Guide for 2.8/3.5 Plates

Grasping Forceps



SO-114-009

Code	Description
SO-114-009	Grasping Forceps

Depth Gauge



SO-111-066

Code	Description
SO-111-066	Depth Gauge for 2.8/3.5mm Screws

Screwdriver Handle



SO-111-063

Code	Description
SO-111-063	Screwdriver Handle

Plate Bender

- Excellent anatomic fit hand grip •
- Proper size body for plate bending •
- Grooves for various thickness plates



SO-111-065



SO-111-065-1

Code	Description
SO-111-065	Plate Bender, Left
SO-111-065-1	Plate Bender, Right

Screwdriver Shafts



SO-113-HF-601



SO-113-HF-606



SO-113-HF-701



SO-113-HF-706

Code	Description
SO-113-HF-601	Screwdriver Shaft for 2.8mm Screws AO Type
SO-113-HF-701	Screwdriver Shaft for 2.8mm Screws
SO-113-HF-606	Screwdriver Shaft for 3.5mm Screws AO Type
SO-113-HF-706	Screwdriver Shaft for 3.5mm Screws

Drill Bits for 2.8mm Screws



SO-112-28-601-L



SO-112-28-701-L



SO-112-28-601



SO-112-28-701

Code	Description	Drilling Length	Overall Length
SO-112-28-601-L	Drill Bit for 2.8mm Lag Screw Technique	42 mm	82 mm
SO-112-28-701-L	AO Type Drill Bits for 2.8mm Lag Screw Technique	42 mm	68 mm
SO-112-28-601	Drill Bit for 2.8mm Screws	67 mm	107 mm
SO-112-28-701	AO Type Drill Bits for 2.8mm Screw	67 mm	93 mm

Drill Bits for 3.5mm Screws



SO-112-35-601-L



SO-112-35-701-L



SO-112-35-601



SO-112-35-701

<i>Code</i>	<i>Description</i>	<i>Drilling Length</i>	<i>Overall Length</i>
SO-112-35-601-L	Drill Bit for 3.5mm Lag Screw Technique	47 mm	87 mm
SO-112-35-701-L	AO Type Drill Bits for 3.5mm Lag Screw Technique	47 mm	73 mm
SO-112-35-601	Drill Bit for 3.5mm Screws	72 mm	112 mm
SO-112-35-701	AO Type Drill Bits for 3.5mm Screws	72 mm	98 mm

Instruments

<i>Code</i>	<i>Description</i>	<i>Set Quantity</i>
SO-112-075	ARIX Foot 2.8/3.5 Plating System Tray	1
SO-112-28-601	Drill Bit for 2.8mm Screws	2
SO-112-28-701	AO Type Drill Bits for 2.8mm Screws	2
SO-112-35-601	Drill Bit for 3.5mm Screws	2
SO-112-35-701	AO Type Drill Bits for 3.5mm Screws	2
SO-112-28-601-L	Drill Bit for 2.8mm Lag Screw Technique	1
SO-112-28-701-L	AO Type Drill Bits for 2.8mm Lag Screw Technique	1
SO-112-35-601-L	Drill Bit for 3.5mm Lag Screw Technique	1
SO-112-35-701-L	AO Type Drill Bits for 2.8mm Lag Screw Technique	1
SO-111-070	Drill Guide Sleeve for 2.8mm Screws	1
SO-111-071	Drill Guide Sleeve for 3.5mm Screws	1
SO-111-073	Drill Guide Sleeve for Variable angle 2.8mm Screws	1
SO-111-074	Drill Guide Sleeve for Variable angle 3.5mm Screws	1
SO-111-063	Screwdriver Handle	2
SO-111-066	Depth Gauge for 2.8/3.5mm Screws	1
SO-111-065	Plate Bender, Left	1
SO-111-065-1	Plate Bender, Right	1
SO-113-HF-601	Screwdriver Shaft for 2.8mm Screws	1
SO-113-HF-701	AO Type Screwdriver Shaft for 2.8mm Screws	1
SO-113-HF-606	Screwdriver Shaft for 3.5mm Screws	1
SO-113-HF-706	AO Type Screwdriver Shaft for 3.5mm Screws	1
SO-111-055	Drill Guide for 2.8mm Screws	1
SO-111-056	Drill Guide for 3.5mm Screws	1
SO-111-060	Compression Drill Guide for 2.8/3.5 Plates	1
SO-114-009	Grasping Forceps	1

Implants – Plates

<i>Code</i>	<i>Description</i>	<i>Set Quantity</i>
SO-F28-ST-002	Straight Plate, 2 Holes, Blue, 1.6T, Short	3
SO-F28-ST-102	Straight Plate, 2 Holes, Blue, 1.6T, Long	3
SO-F28-ST-004	Straight Plate, 4 Holes, Blue, 1.6T	3
SO-F28-ST-005	Straight Plate, 5 Holes, Blue, 1.6T	3
SO-F28-ST-006	Straight Plate, 6 Holes, Blue, 1.6T	3
SO-F28-TP-006	T Plate, 6 Holes, Blue, 1.6T	3
SO-F28-TP-007	T Plate, 7 Holes, Blue, 1.6T	3
SO-F28-GR-007	Grid Plate, 7 Holes, Blue, 1.6T	3
SO-F28-GR-008	Grid Plate, 8 Holes, Blue, 1.6T	3
SO-F28-GR-009	Grid Plate, 9 Holes, Blue, 1.6T	3
SO-F28-HP-010	H Plate, 10 Holes, Blue, 1.3T	3
SO-F28-HL-009	H Plate, 9 Holes, Blue, 1.3T, Left, Small	3
SO-F28-HR-009	H Plate, 9 Holes, Blue, 1.3T, Right, Small	3
SO-F28-HL-109	H Plate, 9 Holes, Blue, 1.3T, Left, Large	3
SO-F28-HR-109	H Plate, 9 Holes, Blue, 1.3T, Right, Large	3

Implants – Screws

<i>Code</i>	<i>Description</i>	<i>Set Quantity</i>
SO-28-FC-XXX	2.8mm Cortical Bone Screw	90
SO-28L-HF-XXX	2.8mm Bone Screw 3.5mm	90
SO-35-FC-XXX	Cortical Bone Screw 3.5mm	70
SO-35L-HF-XXX	Bone Screw	70

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