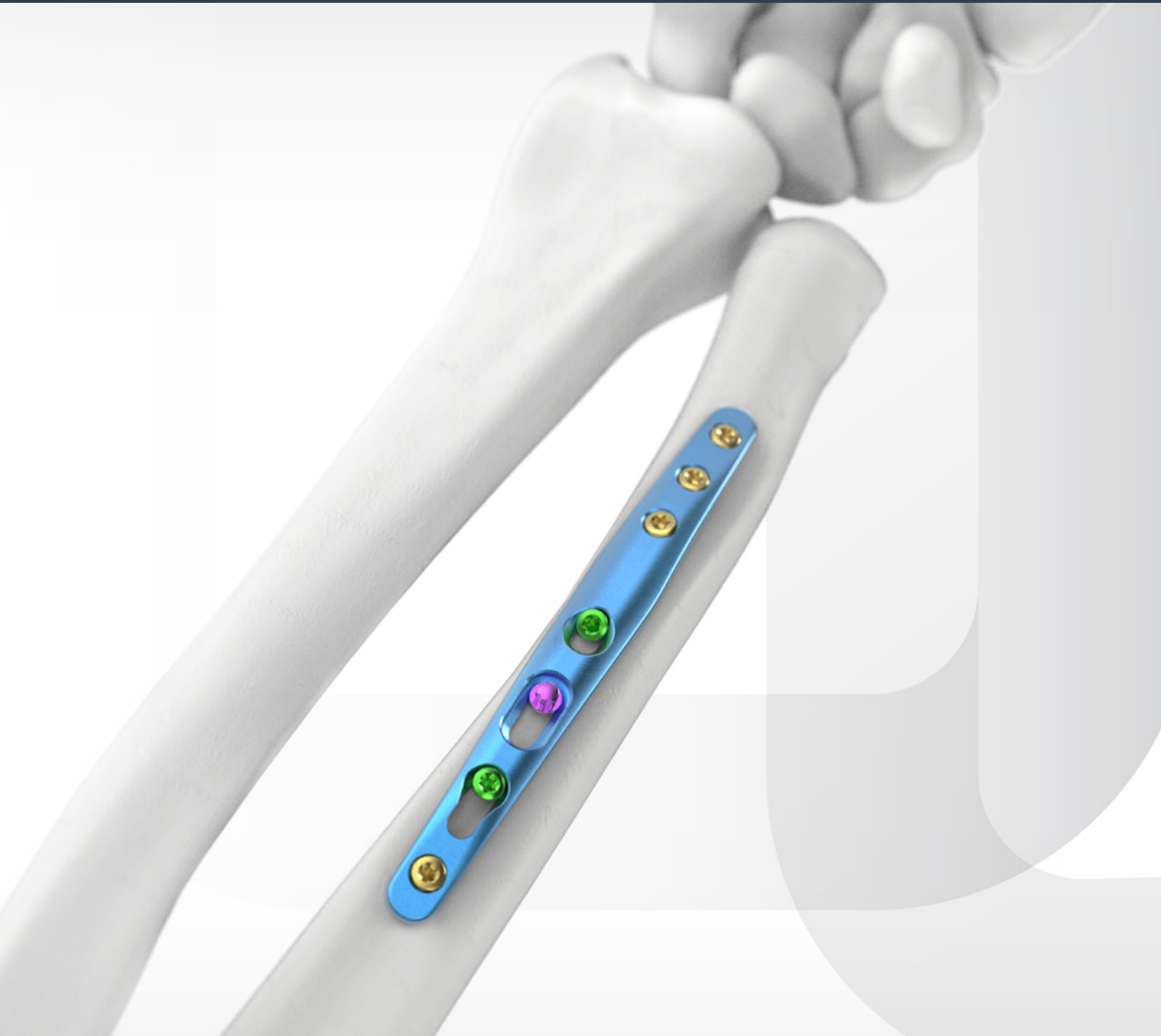


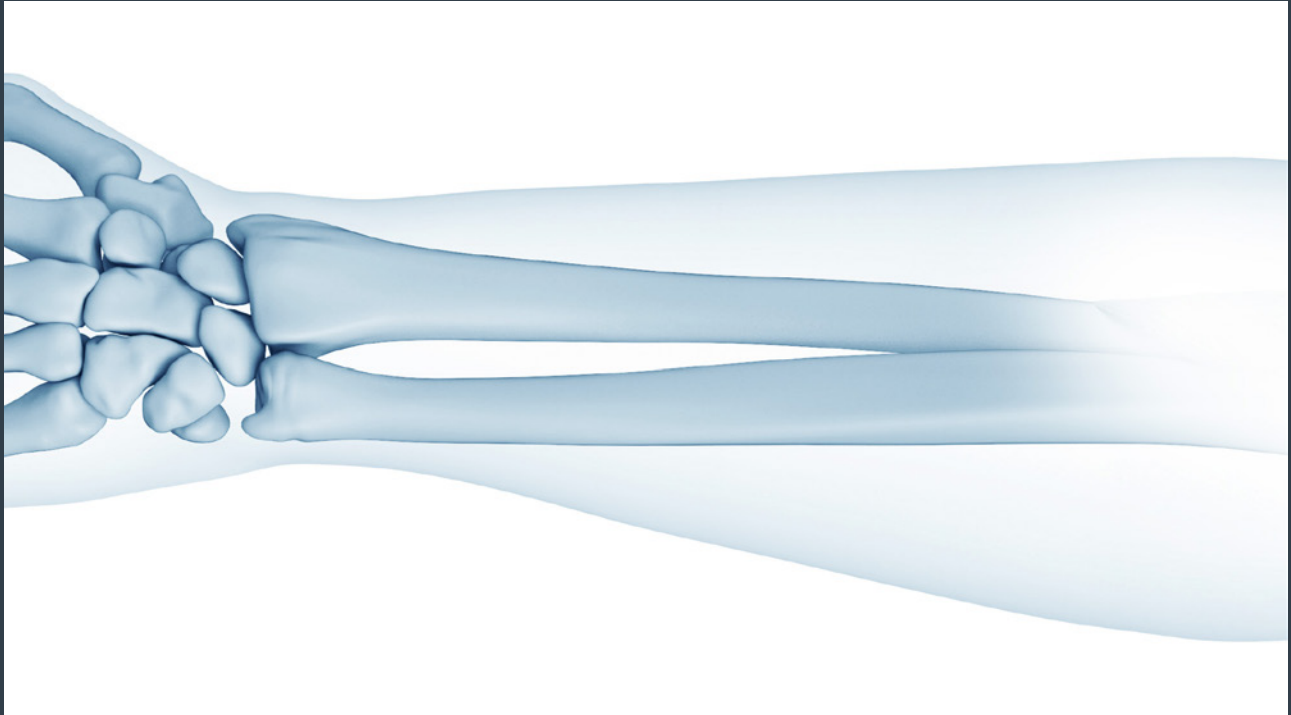
summa
ortho **WRIST SYSTEM**

2.8 Ulna Osteotomy Plate



Contents

3	Indications
4	Features & Benefits
9	Surgical Technique
	Ordering Information
13	- Ulna Osteotomies Plates
14	- Ø 2.8 mm Screws
15	- Instruments
19	Set Configuration



The SUMMA Wrist System (Ulna) is intended for fractures and osteotomies, in particular for the ulna.

Ulna Osteotomy Plates

Anatomical width variance considering distal, middle, and proximal parts of ulna.

Benefits of Locking Plating System

Locking plate and screw system provides more stable fixation than conventional plate and screw system.

Locking screws will not loosen 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 multifragmentary fractures where secure bone purchase with conventional screws may be compromised.

Minimal Soft Tissue Irritation

Anatomic arch design for less irritation Low overall profile of the plate and screw construct for minimal soft tissue irritatio



Plate Specifications

Type	Size	Width	Length	Holes	Thickness	Color	Material
Transverse	Small	9.5 mm	69, 77.5 mm	6~7 holes	3.0 mm	● Blue	Pure Titanium Gr.4
	Large	11 mm	69, 77.5 mm	6~7 holes			
Oblique	Small	9.5 mm	80.5 mm	7 holes	3.0 mm	● Blue	Pure Titanium Gr.4
	Large	11 mm	80.5 mm	7 holes			

Compression Oblong Holes

Solid Compression by Ulna Reduction Forceps

Additional Compression using Compression Hole

Intraoperative Simplicity in Choosing Screws

2.8mm locking and cortical screws can be used in any holes of a plate for intraoperative simplicity.

Easy Plate Identification

Plate size information is marked on plate such as Small or Large.



Ulna Osteotomy Screws

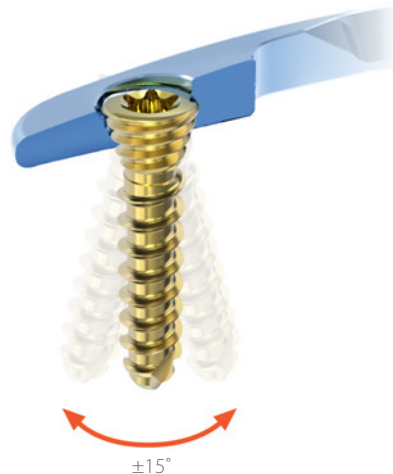
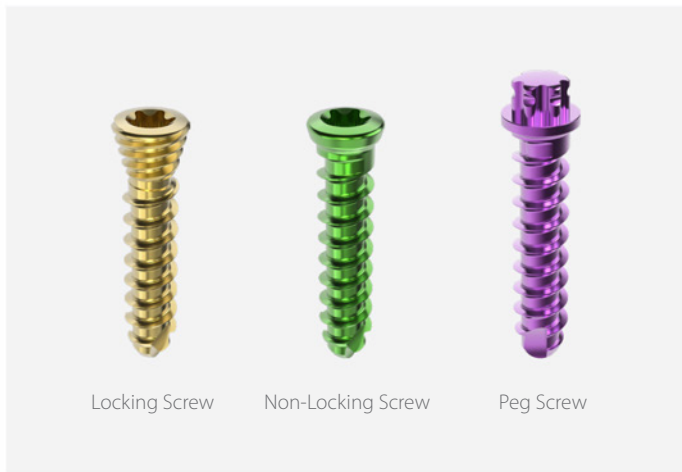
STARIX Screw with T8

- Prevents Cam-out
- Allows Higher Torque Application
- Self-Retaining function
- Locking Variations available



Variable Locking Interface with Locking Screw

- Poly-axial Screw Insertion
- Angle range: $\pm 15^\circ$
- Plate-Screw Locking Interface



Screw Specifications

Screw Types	Screw Head Recess	Outer Diameter	Length	Insertion Type	Color	Material
Locking Screw	Torx	\varnothing 2.8 mm	12 ~ 20 mm	Self-Tapping	● Gold	Titanium Alloy
Non-Locking					● Green	
Peg					● Purple	

Instruments

Easy Sawing Guide

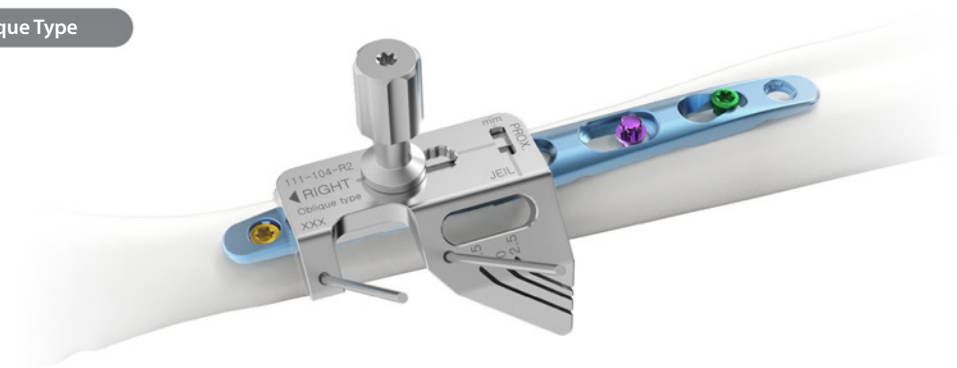
The Easy Sawing Guide offers the ability to make adjustments needed to perform the first and second cuts without the need for numerous guides. Additionally, allowing continuous adjustment from 1 mm to 10 mm, the osteotomy guide allows resection of the desired amount.



Transverse Type



Oblique Type



Dual-Purpose Peg Screw

Compression & Fixation

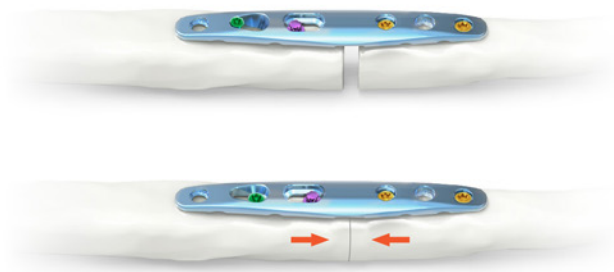
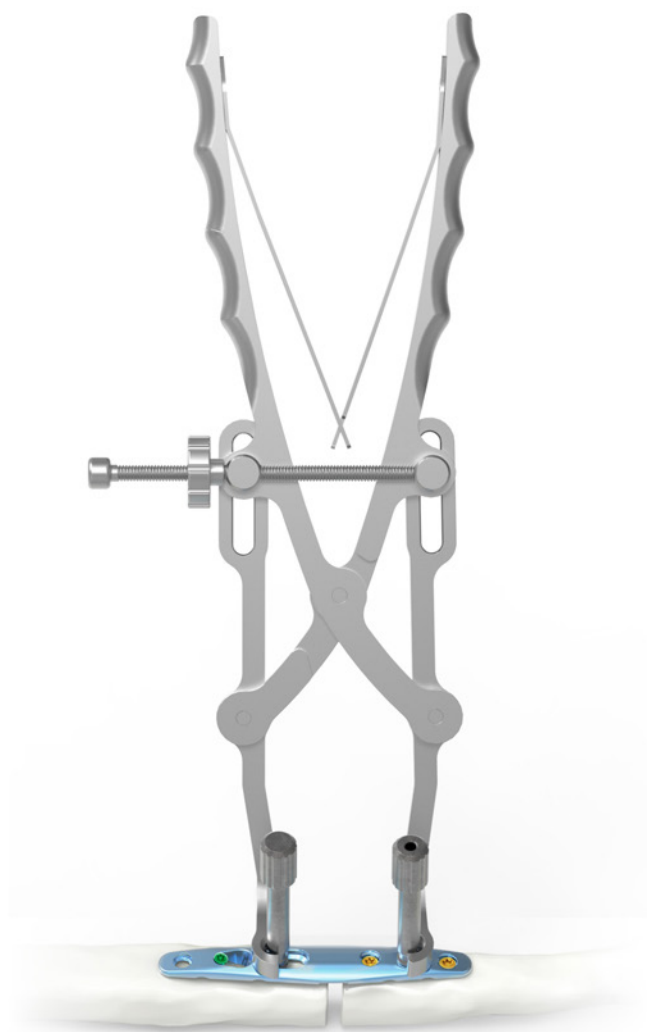


Instruments

Advanced Instrumentation

The Reduction Clamp utilizes a speed-lock wheel designed to maintain a hands-free compression of the osteotomy. The multipurpose temporary Reduction Peg is partially threaded to help ensure that the far cortex is not tapped prior to it being replaced by a screw.

The Reduction Peg is designed to stabilize the ulna and help maintain rotational alignment while creating the osteotomy prior to being used with the Reduction Clamp.



1. Plate Positioning

Place a plate 1 – 1.5cm from the distal end of the ulna. Use a Bone Clamp for fixation at desired location



2. Drilling

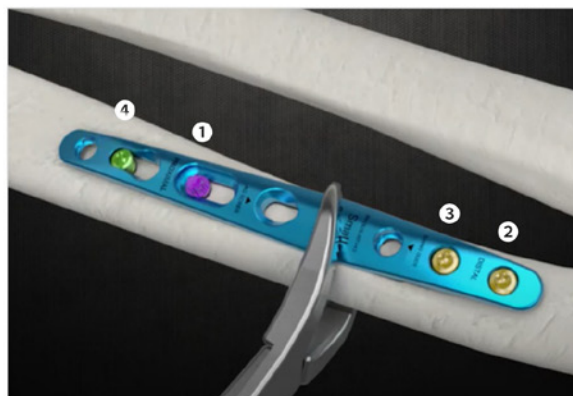
A Drill Guide (111-127) may be used for drilling of the initial screw hole.



3. Screw Insertion

Insert the screws in following order:

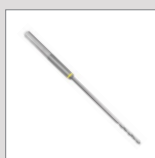
- ① Peg Screw
- ②, ③ Locking Screws
- ④ Cortical Screw



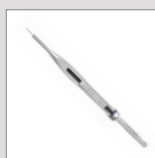
Required Instruments



Drill Guide
111-127



Drill Bits
112-28-601



Depth Gauge
111-075

4. Sawing Guide Assembly

Assemble the Sawing Guide on the plate and use Driver Shaft to tighten the knob.



Insert additional K-Wires (Ø1.1) for the fixation of the Sawing Guide



5. Sawing

Use an oscillating saw from "0" first then, desired osteotomy thickness
Remove the bone wafer, K-Wire and Sawing Guide



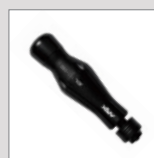
Required Instruments



Sawing Guide
111-104-L2



Screwdriver Shaft
113-HF-613

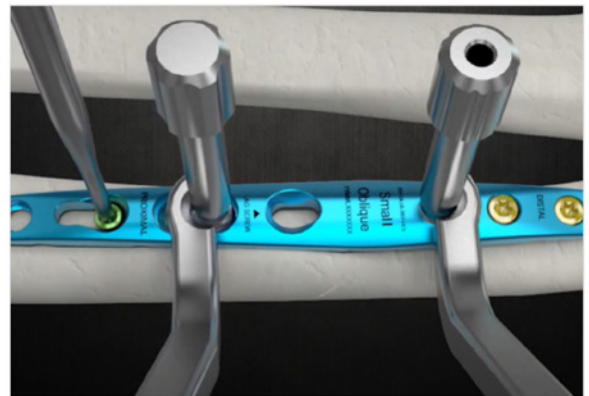
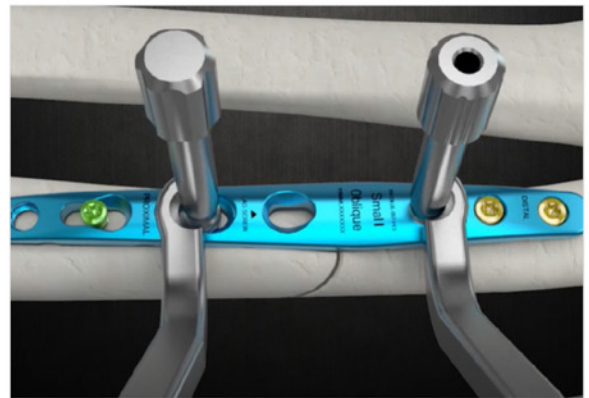
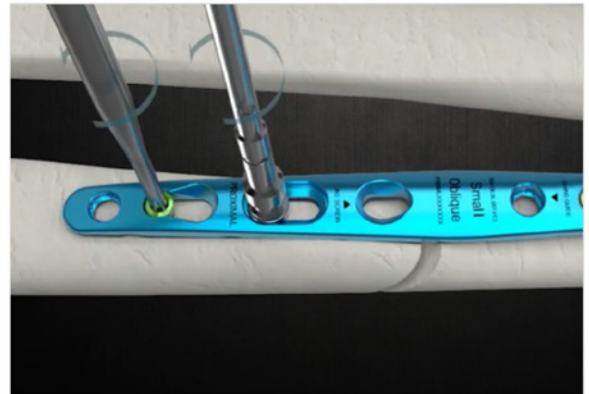


Screwdriver Handle
111-092

6. Reduction

Unscrew ¼ of a rotation of the peg screw and the proximal screw

Attach a Drill Sleeve (111-128) in the distal hole and a Compression Sleeve (111-109) on top of the peg screw. Use the compressor by pushing two sleeves attached for ulna bone reduction



7. Cortical Screw Tightening

Tighten the distal screw for additional reduction and fixation of the ulna bone

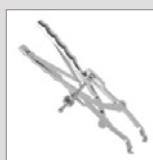
Required Instruments



Screwdriver Shaft
113-HF-612



Screwdriver Shaft
113-HF-613



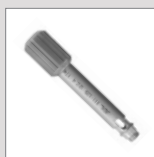
Reduction Forceps
111-105



Screwdriver Handle
111-092



Drill Sleeve
111-109

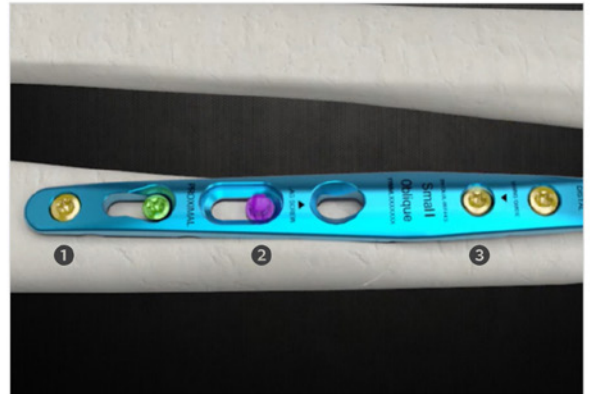


Drill Sleeve
111-128

8. Screw Insertion

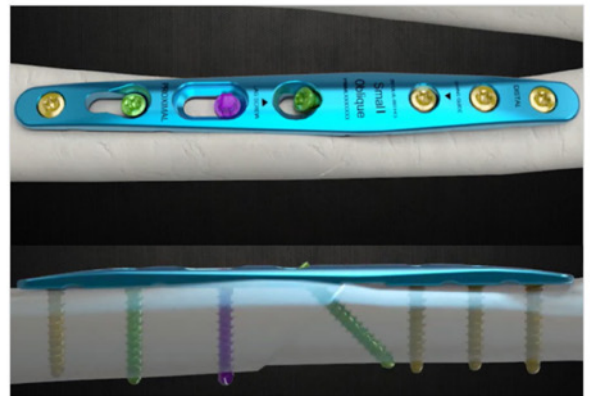
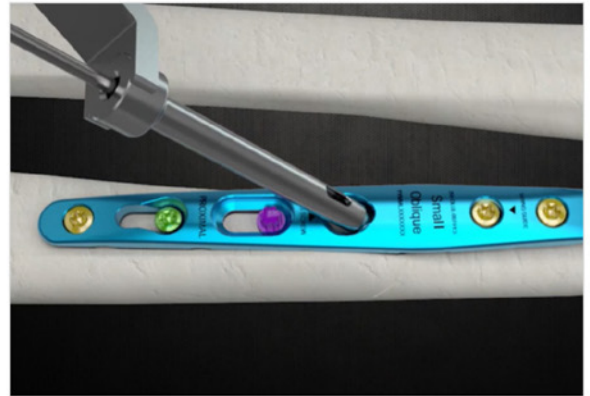
Remaining screws are inserted in following order:

- 1 Proximal Hole (Locking Screw)
- 2 Peg Screw
- 3 Distal Hole (Locking Screw)



9. Lag Screw Insertion

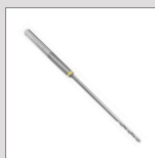
If necessary, insert a lag screw to achieve addition fixation. Use Drill Guide (111-127) for the drilling and insert a cortical screw



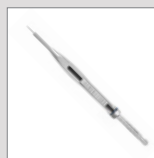
Required Instruments



Drill Guide
111-127



Drill Bits
112-28-601



Depth Gauge
111-075



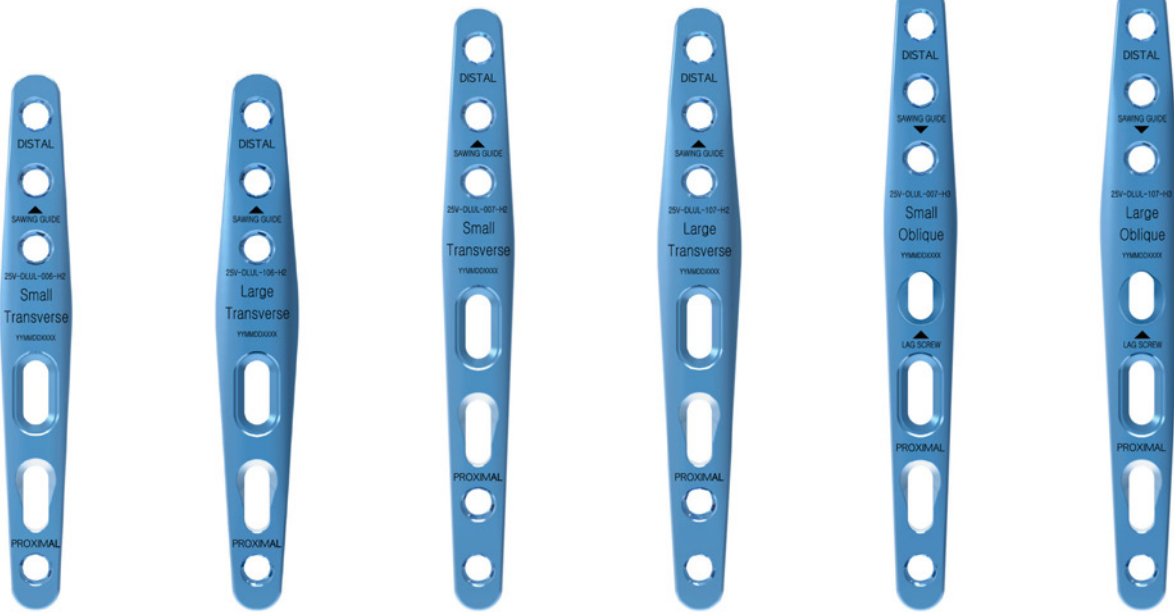
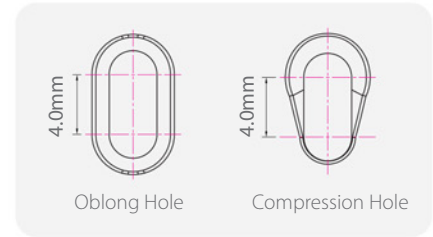
Screwdriver Shaft
113-HF-613



Screwdriver Handle
111-092

Ulna Osteotomy Plates

Transverse / Oblique Type



25V-DLUL-006-H2 25V-DLUL-106-H2 25V-DLUL-007-H2 25V-DLUL-107-H2 25V-DLUL-007-H3 25V-DLUL-107-H3

* Illustrated scale 1:1

Code	Type	Size	Holes	Length	Thickness	Color	Set Quantity
25V-DLUL-006-H2	Transverse	Small	6 (Oblong 1, Comp. Hole 1)	69 mm	3.0 mm	Blue	2
25V-DLUL-106-H2	Transverse	Large	6 (Oblong 1, Comp. Hole 1)	69 mm	3.0 mm	Blue	2
25V-DLUL-007-H2	Transverse	Small	7 (Oblong 1, Comp. Hole 1)	77.5 mm	3.0 mm	Blue	2
25V-DLUL-107-H2	Transverse	Large	7 (Oblong 1, Comp. Hole 1)	77.5 mm	3.0 mm	Blue	2
25V-DLUL-007-H3	Oblique	Small	7 (Oblong 2, Comp. Hole 1)	80.5 mm	3.0 mm	Blue	2
25V-DLUL-107-H3	Oblique	Large	7 (Oblong 2, Comp. Hole 1)	80.5 mm	3.0 mm	Blue	2

Ulna Osteotomy Screws

Ø 2.8 mm Locking Screws

Code	Length	Pick-up Shape	Color	Set Quantity
28L-SO-S12-TA	12 mm	Torx	Gold	16
28L-SO-S14-TA	14 mm	Torx	Gold	16
28L-SO-S16-TA	16 mm	Torx	Gold	16
28L-SO-S18-TA	18 mm	Torx	Gold	16
28L-SO-S20-TA	20 mm	Torx	Gold	16



Ø 2.8 mm Non-Locking Screws

Code	Length	Pick-up Shape	Color	Set Quantity
28-SO-S12-TA	12 mm	Torx	Green	8
28-SO-S14-TA	14 mm	Torx	Green	8
28-SO-S16-TA	16 mm	Torx	Green	8
28-SO-S18-TA	18 mm	Torx	Green	8
28-SO-S20-TA	20 mm	Torx	Green	8



Ø 2.8 mm Peg Screws

Code	Length	Pick-up Shape	Color	Set Quantity
28C-HF-S12-TA	13 mm	Torx	Purple	8
28C-HF-S14-TA	15 mm	Torx	Purple	8
28C-HF-S16-TA	17 mm	Torx	Purple	8
28C-HF-S18-TA	19 mm	Torx	Purple	8
28C-HF-S20-TA	21 mm	Torx	Purple	8



Instruments

Sawing Guide



111-104-R



111-104-R2



111-104-L

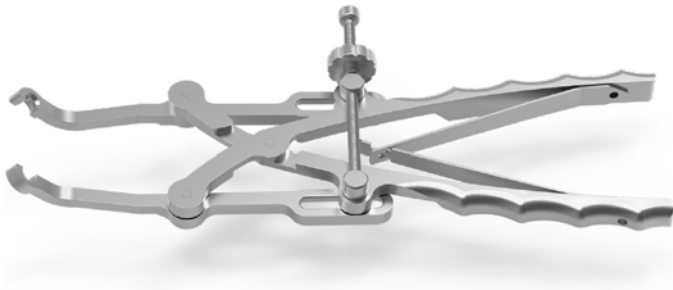


111-104-L2

Code	Description	Set Quantity
111-104-R	Sawing guide (Transverse type, Right)	1
111-104-R2	Sawing guide (Transverse type, Left)	1
111-104-L	Sawing guide (Oblique type, Right)	1
111-104-L2	Sawing guide (Oblique type, Left)	1

* This saw guide works with saw blades which thickness is less than 0.4mm.

Reduction Forceps



Code	Description	Set Quantity
111-105	Reduction Forceps for Ulna Compression	1

Drill Sleeve



111-109



111-128

Code	Description	Set Quantity
111-109	Drill Sleeve for Ulna Compression	1
111-128	Drill Sleeve for Ø2.4mm Drill bit	1

Drill Guide



Code	Description	Set Quantity
111-127	Drill Guide for Ø 2.4 mm Drill Bits	1

Drill Bits



112-28-601



112-28-601-L

Code	Description	Set Quantity
112-28-601	Drill Bits Ø2.4mm for Ø2.8mm Screws	1
112-28-601-L	Lag Drill Bits Ø2.9mm	1

Instruments

Depth Gauge



Code	Description	Set Quantity
111-075	Depth Gauge for Ø 2.5 mm Screws	1

Screwdriver Handle



Code	Description	Set Quantity
111-092	Screwdriver Handle	2

Screwdriver Shaft



113-HF-612



113-HF-613

Code	Description	Set Quantity
113-HF-612	Screwdriver Shaft for Peg Screw	1
113-HF-613	Screwdriver Shaft for STARIX T8	2

Kit & Module



112-101



112-101-3

Code	Description	Set Quantity
112-101	SUMMA Wrist System Ulna Osteotomy Plate Kit	1
112-101-3	SUMMA Wrist System Ulna Osteotomy Implant Tray	1

Set Configuration

<i>Ulna Osteotomy Plates</i>			
No	Code	Description	Set Quantity
1	25V-DLUL-006-H2	Ulna Osteotomy Plate, Transverse, Small, 6 holes (Oblong 1, Comp. Hole 1), Length 69 mm	2
2	25V-DLUL-106-H2	Ulna Osteotomy Plate, Transverse, Large, 6 holes (Oblong 1, Comp. Hole 1), Length 69 mm	2
3	25V-DLUL-007-H2	Ulna Osteotomy Plate, Transverse, Small, 7 holes (Oblong 1, Comp. Hole 1), Length 77.5 mm	2
4	25V-DLUL-107-H2	Ulna Osteotomy Plate, Transverse, Large, 7 holes (Oblong 1, Comp. Hole 1), Length 77.5 mm	2
5	25V-DLUL-007-H3	Ulna Osteotomy Plate, Oblique, Small, 7 holes (Oblong 2, Comp. Hole 1), Length 80.5 mm	2
6	25V-DLUL-107-H3	Ulna Osteotomy Plate, Oblique, Large, 7 holes (Oblong 2, Comp. Hole 1), Length 80.5 mm	2
<i>Ø 2.8 mm Locking Screws</i>			
No	Code	Description	Set Quantity
1	28L-SO-S12-TA	Ø 2.8 mm Locking Screw, Length 12 mm	16
2	28L-SO-S14-TA	Ø 2.8 mm Locking Screw, Length 14 mm	16
3	28L-SO-S16-TA	Ø 2.8 mm Locking Screw, Length 16 mm	16
4	28L-SO-S18-TA	Ø 2.8 mm Locking Screw, Length 18 mm	16
5	28L-SO-S20-TA	Ø 2.8 mm Locking Screw, Length 20 mm	16
<i>Ø 2.8 mm Non-Locking Screws</i>			
No	Code	Description	Set Quantity
1	28-SO-S12-TA	Ø 2.8 mm Non-locking Screw, Length 12 mm	8
2	28-SO-S14-TA	Ø 2.8 mm Non-locking Screw, Length 14 mm	8
3	28-SO-S16-TA	Ø 2.8 mm Non-locking Screw, Length 16 mm	8
4	28-SO-S18-TA	Ø 2.8 mm Non-locking Screw, Length 18 mm	8
5	28-SO-S20-TA	Ø 2.8 mm Non-locking Screw, Length 20 mm	8
<i>Ø 2.8 mm Peg Screws</i>			
No	Code	Description	Set Quantity
1	28C-HF-S12-TA	Ø 2.8 mm Peg Screw, Length 12 mm	8
2	28C-HF-S14-TA	Ø 2.8 mm Peg Screw, Length 14 mm	8
3	28C-HF-S16-TA	Ø 2.8 mm Peg Screw, Length 16 mm	8
4	28C-HF-S18-TA	Ø 2.8 mm Peg Screw, Length 18 mm	8
5	28C-HF-S20-TA	Ø 2.8 mm Peg Screw, Length 20 mm	8
<i>Instruments</i>			
No	Code	Description	Set Quantity
1	111-104-R	Sawing guide (Transverse type, Right)	1
2	111-104-R2	Sawing guide (Transverse type, Left)	1
3	111-104-L	Sawing guide (Oblique type, Right)	1
4	111-104-L2	Sawing guide (Oblique type, Left)	1
5	111-105	Reduction Forceps for Ulna Compression	1
6	111-109	Drill Sleeve for Ulna Compression	1
7	111-128	Drill Sleeve for Ø2.4mm Drill bit	1
8	112-28-601	2.8mm Cortical Bone Screw Drill, Ø2.4mm	2
9	112-28-601-L	2.8mm Cortical Bone Screw Lag Drill, Ø2.9mm	1
10	113-HF-612	Driver for Peg Screw	1
11	113-HF-613	Driver for STARIX T8	2
12	111-092	Screwdriver Handle	2
13	111-075	Depth Gauge for 2.5mm screws	1
14	112-101-3	SUMMA Wrist System Ulna Osteotomy Implant Tray	1
15	112-101	SUMMA Wrist System Ulna Osteotomy Plate Kit	1

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