

# UNI-CP™

COMPRESSION PLATE



**SURGICAL TECHNIQUE**

LOWER  
EXTREMITY  
SOLUTIONS

 **INTEGRA™**  
Extremity Reconstruction

# Uni-CP™

## COMPRESSION PLATE

### Surgical Technique

THIS TECHNIQUE HAS BEEN DEVELOPED WITH THE HELP OF STEPHEN CONTI, MD



As the manufacturer of this device, Integra LifeSciences does not practice medicine and does not recommend this or any other surgical technique for use on a specific patient. The surgeon who performs any implant procedure is responsible for determining and using the appropriate techniques for implanting the device in each patient.

#### Indications

The Uni-CP™ is indicated for fixation of bone fractures or for bone reconstruction:

- Arthrodesis in foot and ankle surgery
- Fracture management in the foot and ankle
- Mono or bi-cortical osteotomies in the foot and ankle

#### Contraindications

The implant should not be used in a patient who has currently, or who has a history of:

- Active infection or inflammation
- Suspected or documented metal allergy or intolerance
- Poor soft tissue quality at surgical site

#### Description

- 2 plate configurations:
  - 2 screw design
  - 4 screw design
- 3 interaxis sizes (screw to screw length) for each design:
  - 20 mm, 25 mm, 30 mm
- 3.5mm diameter range of screw lengths:
  - 12-40 mm in 2mm increments
- Surfix™ Locking Technology
- Material: Stainless Steel



#### Surgical Site Preparation

The articular surfaces should be prepared using standard technique to resect the necessary amount of cartilage and, if necessary, to remove bone graft material.

Obtain adequate reduction and provisional fixation using guide wires or reduction forceps.

## PREPARE



339 002ND  
Trial Implant

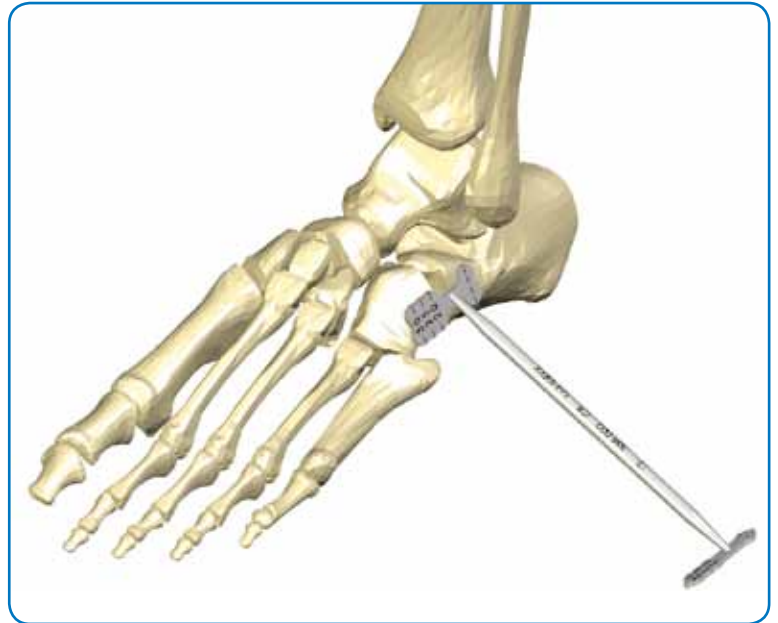


219 735ND  
Plate Benders

### Step 1 • Trial Plate Positioning

Use the trial implant (339 002ND) to determine the appropriate plate configuration. Depending on the indication, the surgical exposure may not accommodate the trial plate. Place the graduated end of the trial over the larger bone (fragment), under the soft tissue to minimize irritation.

(Note: 1 mm guide wires can be placed through the trial to maintain plate alignment if desired.)



### Step 2 • Plate Contouring

The chosen plate can be contoured, prior to application, to better fit the anatomy. A set of two plate benders (219 735ND) are included to aid in this process. **It is important to position the benders in the locking holes to protect the locking mechanical properties of the plate design. If this is not the case, the intermediate locking threads may be damaged or deformed, thus preventing optimal functioning of the lock-screw mechanism.**

(Warning: The plate will weaken with excessive bending. Do not bend the plate excessively to ensure the metal is not compromised.)



## PREPARE



219 635ND  
Drill Guides



339 003ND  
Implant Holder

### Step 3 • Drill Guides

Insert the drill guides (219 635ND) into the appropriately contoured plate. The screwdrivers (219 835ND) can be used to ease introduction into the threaded hole. Make sure that each guide is fully seated in the plate to maintain proper alignment.

(Note: The drill guides are slotted to allow for the removal of bodily debris during the drilling process.)

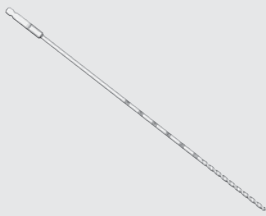


### Step 4 • Implant Positioning

Position the plate in the desired location. An implant holder (339 003ND) can be secured to any one of the drill guides to aid in this process. 1mm guide wires can then be inserted into the wire holes in the plate for temporary fixation.

(Note: If 1 mm guide wires were introduced through the trial instrument, the plate can be introduced over them, positioning the guide wires through the holes in the plate.)





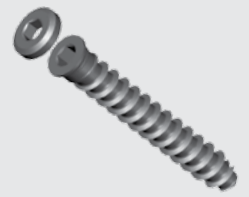
219 535ND  
Diam. 2.7mm Drill



219 335ND  
Depth Gauge



219 835ND  
Hex Diam. 2.0mm Screwdriver

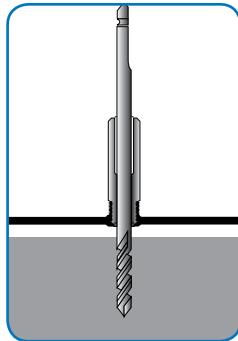


286 312SND - 286 340SND  
3.5mm + Locking Screws

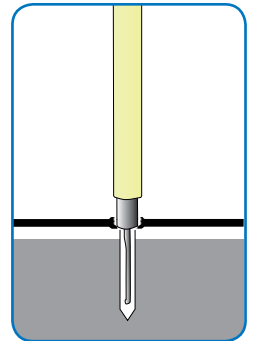
## Step 5 • Screw Insertion

(Warning: When using the 4-hole plate, always place diagonal screws first to maintain accurate placement and optimally contour the plate to the bone surface.)

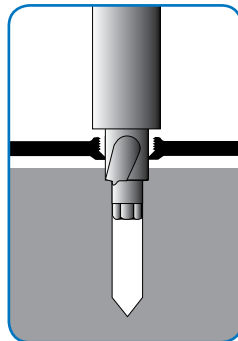
- (A) Prepare holes with the 2.7mm drill (219 535ND) through the drill guide. The screw length can be determined from the calibrated scale on the drill. The depth is determined from the top side of the drill guide.



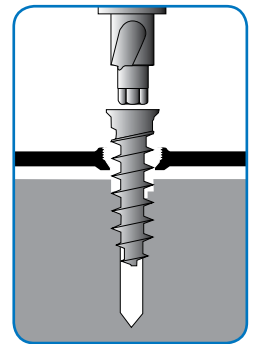
- (B) Alternately, measure the necessary screw length using the depth gauge (219 335ND). It can be used with or without the drill guide. Each depth gauge has two sets of markings to use with or without the drill guide.



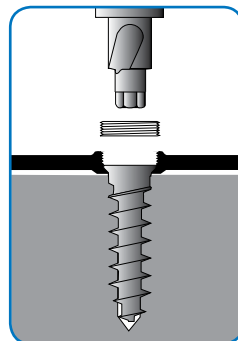
- (C) Remove the drill guide and chamfer the drill hole with the screwdriver (219 835ND). Ensure that the threaded hole is not damaged when performing the chamfering.



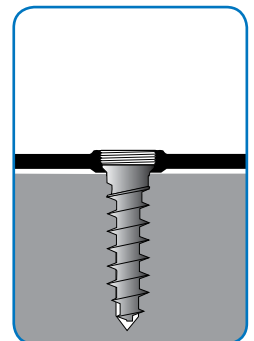
- (D) Insert the screw (286 312SND-286 340SND) into the prepared hole and tighten until the plate is fully seated in the plate. Clean the threaded hole before and after introducing the screw. (Unlike a traditional locking mechanism, the screw can be continually tightened to contour the plate to the bone.)



- (E) Place the lock-screw on the appropriate screwdriver. The lock-screw should be inserted after each screw, and before preparation and insertion of the subsequent screw. This prevents potential damage to the thread.

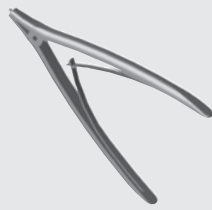


- (F) Fully seat the lock-screw using the screwdriver (over tightening the lock-screw provides no additional benefit and increases the chances of stripping). When it is fully inserted, the lock-screw should be flush with the top of the plate.



(Warning: Steps A through F should be completed for each screw before beginning preparation of the subsequent screw(s). If not, the axes of the screw and the prepared hole may be misaligned.)

## PREPARE



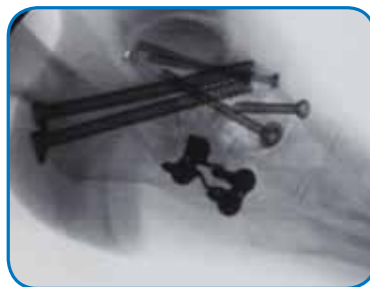
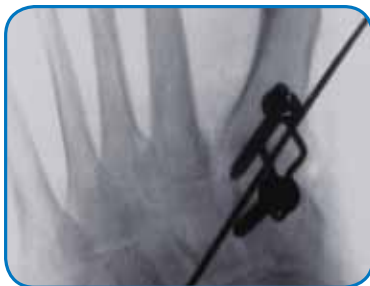
339 001ND  
Large Compression Forcep (Spreader)

### Step 6 • Compression

After all screws are locked in place, compress the Uni-CP using the compression forcep (spreading) instrument (339 001ND). Upon opening the diamond designed bridge, the compressive forces will pull the ends of the plate toward one another.



### X-Rays





**Notes**

Lined area for taking notes, consisting of multiple horizontal blue lines.

# UNI-CP™

## COMPRESSION PLATE

### Uni-CP Compression Plate

Reference	Description
330 220SND	2 holes - 20mm
330 225SND	2 holes - 25mm
330 230SND	2 holes - 30mm
330 420SND	4 holes - 20mm
330 425SND	4 holes - 25mm
330 430SND	4 holes - 30mm

### Instrument Container

Reference	Description
339 900ND	Container
339 910ND	Base
339 901ND	Lid
339 911ND	Module

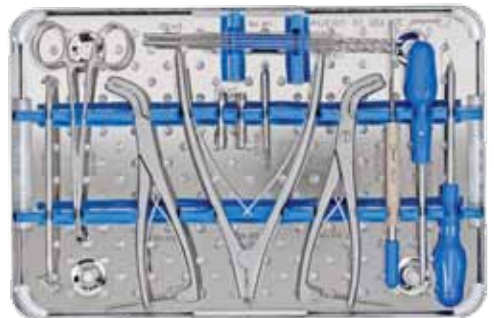
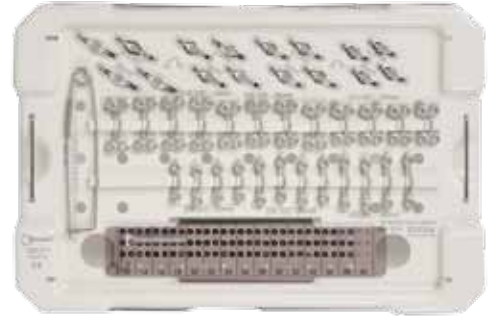
### Instruments

Reference	Description
219 835ND	Screwdriver / Hex. diam. 2.0mm, L. 180mm
219 435ND	Screwdriver / AO, Hex. diam. 2.0mm, L. 76mm
219 635ND	Drilling guide, diam. 2.7mm
219 535ND	Drill, AO diam. 2.7mm, L. 190mm
219 735ND	Bending forceps, diam. 3.5mm hole, L. 171mm
219 335ND	Depth gauge, diam. 3.5mm screws
339 001ND	Large compression forcep (spreader)
339 002ND	Trial implant
339 003ND	Implant holder



### Sterile stainless steel screws diam. 3.5 mm + lock-screw

Reference	Description
286 312SND	Length 12mm
286 314SND	Length 14mm
286 316SND	Length 16mm
286 318SND	Length 18mm
286 320SND	Length 20mm
286 322SND	Length 22mm
286 324SND	Length 24mm
286 326SND	Length 26mm
286 328SND	Length 28mm
286 330SND	Length 30mm
286 332SND	Length 32mm
286 334SND	Length 34mm
286 336SND	Length 36mm
286 338SND	Length 38mm
286 340SND	Length 40mm
186 300SND	Lock-screw



**INTEGRA™**  
Extremity Reconstruction

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