

# 3.5 mm LCP Superior and Superior Anterior Clavicle Plates. Part of the Synthes modular clavicle plate system.

## Technique Guide



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**IMPORTANT:** This device has not been evaluated for safety and compatibility in the MR environment. This device has not been tested for heating or migration in the MR environment.

 Image intensifier control

## 3.5 mm LCP Superior and Superior Anterior Clavicle Plates.

Part of the Synthes modular clavicle plate system.

The 3.5 mm LCP Clavicle Plates combine locking screw technology with conventional plating techniques and include the following:

- 3.5 mm LCP Superior Clavicle Plates (6, 7 and 8 holes)
- 3.5 mm LCP Superior Clavicle Plates with lateral extension (6, 7 and 8 holes)
- 3.5 mm LCP Superior Anterior Clavicle Plates (6, 7 and 8 holes)
- 3.5 mm LCP Superior Anterior Clavicle Plates with lateral extension (3, 4, 5, 6, 7 and 8 holes)

Plates feature Combi holes that allow fixation with locking screws in the threaded section for angular stability, and cortex screws in the dynamic compression unit (DCU) section for compression.

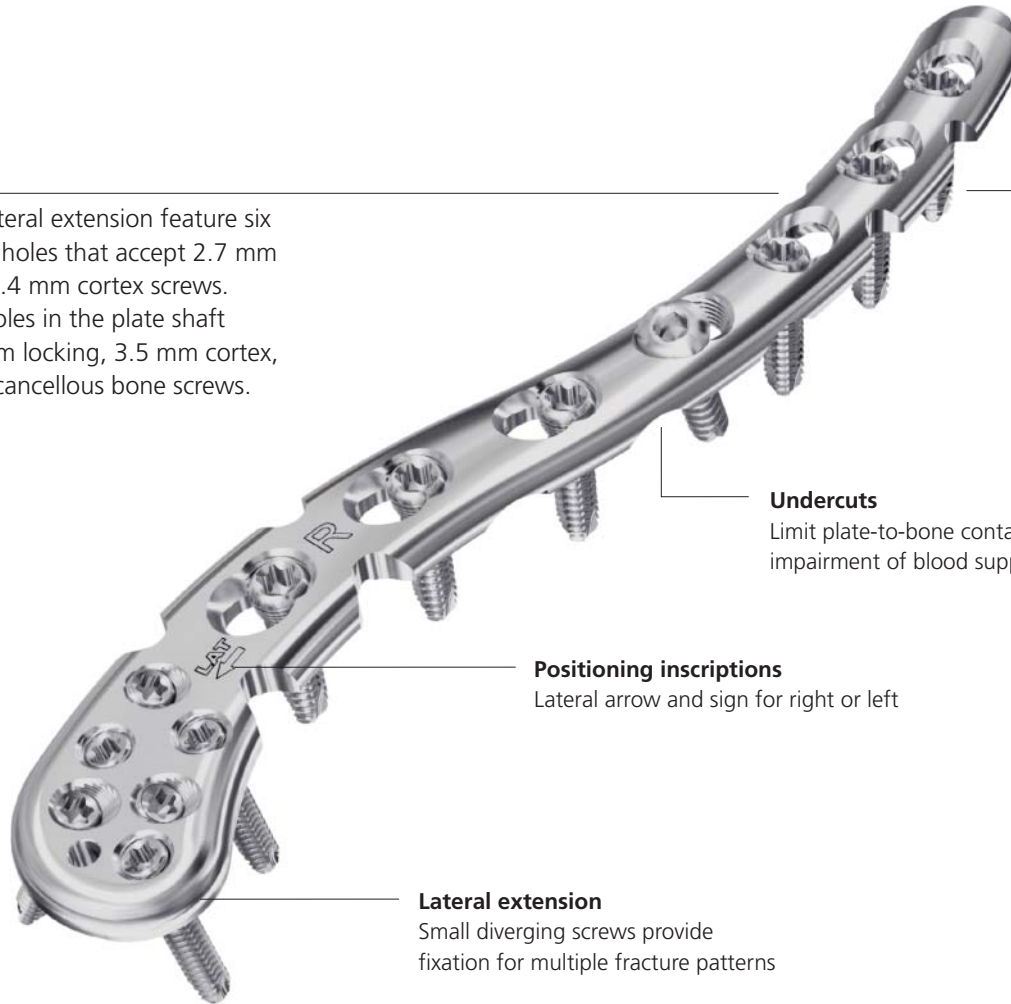
A fixed-angle construct provides advantages in osteopenic bone or multifragment fractures where screws do not rely on plate-to-bone compression to resist patient load, but function similarly to multiple, small, angled blade plates.

### Features

- Precontoured plate for anatomical shape
- Left and right plates
- Notches in the plate allow additional plate contouring
- Limited-contact shaft profile
- Tapered tip for submuscular plate insertion
- Available sterile-packed



Plates with lateral extension feature six distal locking holes that accept 2.7 mm locking and 2.4 mm cortex screws. The Combi holes in the plate shaft accept 3.5 mm locking, 3.5 mm cortex, and 4.0 mm cancellous bone screws.



#### Undercuts

Limit plate-to-bone contact to reduce impairment of blood supply

#### Positioning inscriptions

Lateral arrow and sign for right or left

#### Lateral extension

Small diverging screws provide fixation for multiple fracture patterns

#### K-wire hole

2 mm K-wire hole on lateral end aids plate positioning

#### Combi holes

Accept 3.5 mm locking, 3.5 mm cortex and 4.0 mm cancellous bone screws

#### Recon plate segments

Allow contouring of plates to fit patient anatomy



#### Rounded plate/screw profile

Minimize the risk for soft tissue irritation

#### Tapered plate tip

Tapered end for submuscular plate insertion may preserve tissue viability

# AO Principles

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In 1958, the AO formulated four basic principles, which have become the guidelines for internal fixation.<sup>1</sup> They are:

## **Anatomic reduction**

Fracture reduction and fixation to restore anatomical relationships.

## **Stable fixation**

Stability by fixation or splintage, as the personality of the fracture and injury requires.

## **Preservation of blood supply**

Preservation of the blood supply to soft tissue and bone by careful handling.

## **Early, active mobilization**

Early and safe mobilization of the part and the patient.

1. M.E. Müller, M. Allgöwer, R. Schneider, and H. Willenegger:  
*Manual of Internal Fixation*, 3rd Edition. Berlin: Springer-Verlag. 1991.

## Indications

The Synthes 3.5 mm LCP Clavicle Plate System is indicated for fixation of fractures, malunions, nonunions and osteotomies of the clavicle.



# Preparation

## Required set

105.434/ 145.434	Small Fragment LCP Instrument and Implant Set, with self-tapping screws (stainless steel or titanium)
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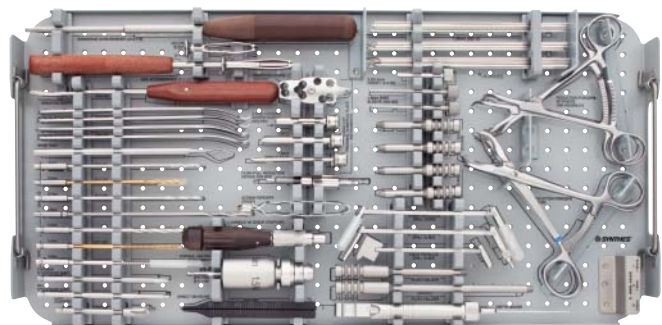
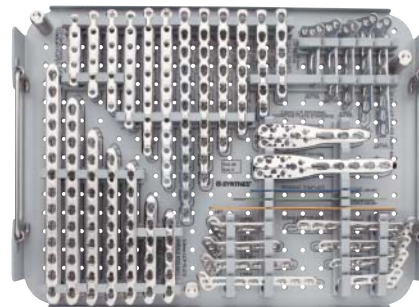
## Optional sets

105.90	Bone Forceps Set
105.954	Small Battery Drive Set, with 14.4 V Battery Pack

## Optional instruments

329.29*	Bending Pliers
329.30*	Plate Bending Press

Complete the preoperative radiographic assessment and prepare the preoperative plan. Determine the plate length and instruments to be used.



\* Also available



# Surgical Technique

## 1

### Position patient

- A beach-chair or supine position on a radiolucent operating table is recommended to provide appropriate access to the clavicle. AP and lordotic visualization of the clavicle with fluoroscopy is recommended. A small roll or folded towel placed between the scapulae allows retraction of the shoulders and assists with reduction. The head of the patient should be turned away from the operative side and may be supported with a head rest.

If endotracheal intubation is used, the tube should be positioned and secured on the contralateral side, if possible. Prepare the entire upper extremity, the upper chest wall and hemithorax. This includes the sternum and sternoclavicular articulation. The sternal notch and the upper extremity should be draped within the operative field.





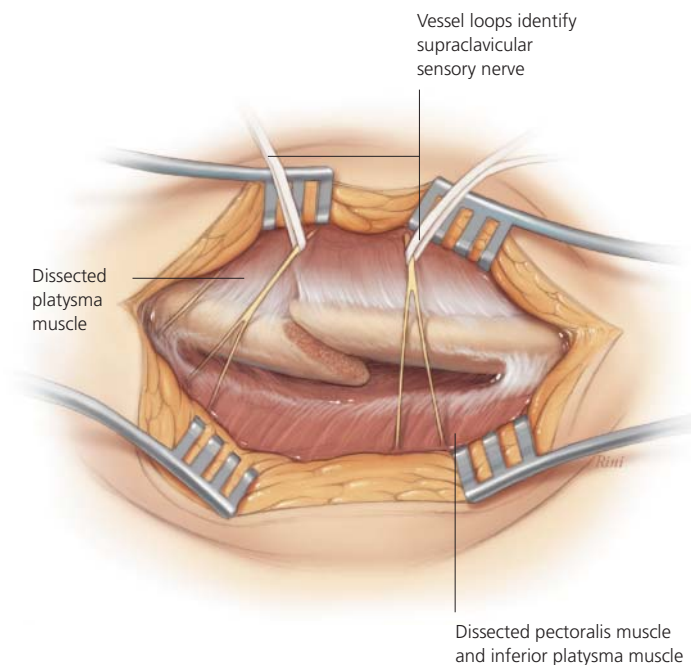
## 2

### Approach

The horizontal incision is placed over the superior or inferior clavicle, depending on the stabilization method.

The medial, intermediate, and lateral supraclavicular nerves travel deep to the platysma then typically pierce this muscle and the superficial fascia at the level of the clavicle. Subcutaneous dissection is performed carefully as it may permit the identification of the perforating supraclavicular sensory nerves. Subsequent division of the platysma is also performed carefully as the supraclavicular nerves may still be deep to the platysma depending on the cephalad level of the dissection. Division of the platysma will expose the clavicle periosteum at the deltotracheal fascia and the pectoralis origin.

Do not strip any comminuted fragments.



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## 3

### Reduce

After fracture exposure, distract the two main fragments and restore the length of the clavicle. If the bone ends are angled or oblique, reduction with a pointed or serrated reduction forceps is recommended. Normal length, axis angulation and rotation should be restored. Any large comminuted fragments should also be reduced and temporarily held with small pointed bone clamps or K-wires. Plan temporary fixation to not interfere with placement of definitive fixation.

K-wires can be placed through the distal end of the plate to assist with temporary maintenance of the reduction, and for plate placement.

Additional options for maintaining the reduction include:

- Independent lag screws
- Lag screws through the plate

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**Technique tip:** To estimate the amount of clavicular length to restore, clinically measure the distance between the acromioclavicular joint and the sternoclavicular joint on the contralateral side.

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4

Determine plate length and bend plate

Required set

105.434/ 145.434	Small Fragment LCP Instrument and Implant Set, with self-tapping screws (stainless steel or titanium)
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Instruments

329.04, 329.05	Bending Irons
329.29*	Bending Pliers
329.291	Bending Pliers, for 3.5 mm Clavicle Plates, 227 mm length
329.30*	Plate-Bending Press

Select a plate length appropriate for the fracture.

Due to varying patient anatomy, the plate may not be perfectly anatomical and slight plate bending may be necessary. Using bending irons, bending pliers, and/or the plate-bending press, contour the plate as needed. For an optimum fit, the plate can be bent at each notch in the plane of the shaft.

**Note:** The medial end of the plate should be twisted anteriorly to avoid disruption of the origin of the sternocleidomastoid muscle.

To bend the plate, insert it into the jaws of the bending pliers for 3.5 mm clavicle plates at the appropriate notch.

To adjust the superior bend, insert the plate all the way toward the back of the jaws of the bending pliers (Figures 1 and 2).

To adjust the S-curve, place the plate between the two notches in the front of the jaws of the bending pliers (Figures 3 and 4).



Figure 1



Figure 2



Figure 3



Figure 4

\* Also available

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For more leverage and control when bending, loosen the adjustment screw on the bending pliers so that the handles are closer together. If more adjustment is needed, make a series of small bends, threading the adjustment screw roughly half a turn at a time.

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## 5

### Insert plate

- ① Position the plate on the reduced bone, and attach it temporarily with the plate holding forceps, push/pull reduction device or a 3.5 mm cortex screw. After plate insertion, check alignment of the bone using fluoroscopy.

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**Note:** This locking plate is precontoured to fit the clavicle. If the plate contour is changed, it is important to check the position of the screws in relation to the joint, using screw placement verification.

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## 6

### Verify screw placement

Since the direction of the locking screw depends on the contour of the plate, final screw position may be verified with K-wires before insertion. This becomes important when the plate has been manually contoured, applied near the acromioclavicular joint, or for unusual anatomy.

- Verify K-wire placement under image intensification to determine if final screw placement will be acceptable.

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**Important:** The K-wire position represents the final position of the locking screw. Confirm that the K-wire does not enter the joint.

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## 7

### Insert screws

Determine the combination of screws to be used for fixation. If a combination of locking and cortex screws will be used, cortex screws should be inserted first to ensure that the plate has appropriate bone contact.

**Note:** To secure the plate to the clavicle prior to locking screw insertion, it is recommended to pull the plate to the bone using a cortex screw.

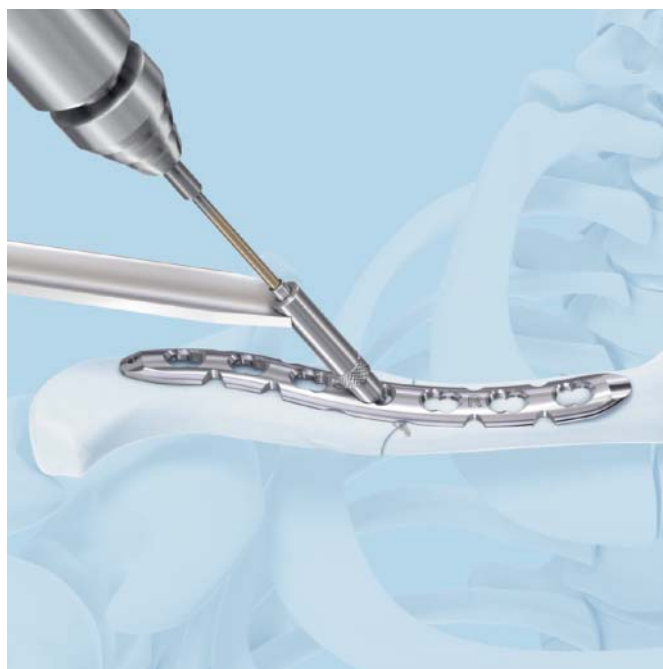
It is necessary to avoid overpenetration of the inferior clavicle, due to the close proximity of the subclavian artery and brachial plexus.

### Fixation with 3.5 mm cortex screws

#### Instruments

310.25	2.5 mm Drill Bit, quick coupling, 110 mm, gold
314.02	Small Hexagonal Screwdriver with Holding Sleeve
or	
311.43	Handle, with quick coupling
with	
314.03	Small Hexagonal Screwdriver Shaft
319.01	Depth Gauge, for 2.7 mm and small screws
323.36	3.5 mm Universal Drill Guide

Use the 2.5 mm drill bit through the 3.5 mm universal drill guide to predrill the bone. For the neutral position, press the drill guide down in the nonthreaded end of the hole. To obtain compression, place the drill guide at the end of the nonthreaded hole away from the fracture (do not apply downward pressure on the spring-loaded tip).



#### 7. Insert screws continued

Measure for screw length using the depth gauge.

Select and insert the appropriate length 3.5 mm cortex screw using a small hexagonal screwdriver.





## Locking screw insertion

### Notes:

- The direction of the locking screws is predetermined based on normal anatomy. If manual contouring is necessary, verify new screw trajectories using the K-wire placement. The use of image intensification is recommended.

If a locking screw will be used as the first screw, be sure the fracture is reduced and the plate is held securely to the bone. This prevents plate rotation as the screw is locked to the plate.

## Fixation with 3.5 mm locking screws

### Instruments

310.288	2.8 mm Drill Bit, quick coupling, 165 mm
312.648	2.8 mm Threaded Drill Guide
314.115 or 314.116	StarDrive Screwdriver, T15 StarDrive Screwdriver Shaft, quick coupling, T15
319.01	Depth Gauge, for 2.7 mm and small screws
511.770* or 511.773	Torque Limiting Attachment, 1.5 Nm Torque Limiting Attachment, 1.5 Nm, quick coupling

Insert the 2.8 mm threaded drill guide into a 3.5 mm locking hole until fully seated. Use the 2.8 mm drill bit to drill to the desired depth. Remove the 2.8 mm threaded drill guide. Use the depth gauge to determine screw length.

Insert the locking screw under power, using the torque limiting attachment and the StarDrive screwdriver shaft, or insert it manually, using the StarDrive screwdriver. Hold the plate securely on the bone to prevent plate rotation as the screw is locked to the plate.



\* Also available

**Fixation with 2.7 mm locking screws—lateral extension****Instruments**

311.43	Handle, with quick coupling
314.467	StarDrive Screwdriver Shaft, T8, 105 mm
314.468	Holding Sleeve, for StarDrive Screwdriver Shaft, T8
319.006	Depth Gauge, for 2.0 mm and 2.4 mm cortex screws
323.061	2.0 mm Threaded Drill Guide, with Depth Gauge
or	
313.353	2.0 mm LCP Solid Threaded Drill Guide
323.062	2.0 mm Drill Bit with Depth Mark, quick coupling, 140 mm
511.776	Torque Limiting Attachment, 0.8 Nm, quick coupling

Screw the 2.0 mm threaded drill guide into a 2.7 mm locking hole until fully seated. Use the 2.0 mm drill bit to drill to the desired depth. Remove the 2.0 mm threaded drill guide. Use the depth gauge to determine screw length.

**Optional technique**

For direct measuring with a calibrated drill bit, determine where locking screws will be used. Screw the 2.0 mm threaded drill guide into a threaded hole until fully seated. Use the 2.0 mm drill bit with depth mark to drill to the desired depth. Determine the screw length directly from the drill bit.

The 2.7 mm locking screw can be inserted manually or with power. For power insertion, use the T8 StarDrive screwdriver shaft attached to the 0.8 Nm torque limiting attachment. For manual insertion, use the handle with quick coupling. Use the holding sleeve for StarDrive screwdriver shaft, if necessary. Repeat for all lateral holes to be used.



## 8

### Confirm reduction and fixation

- Assess the final reduction and fixation, by both direct visualization and image intensification. Confirm full range of motion and stability of the fixation with the shoulder. AP and lordotic fluoroscopic visualization should confirm reduction and appropriate positioning of the plate and screws.



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Wound closure

A layered closure should be performed. The trapezial-deltoid fascia can often be approximated over the plate. The platysma and the subcutaneous tissue should be closed as separate layers.

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Postoperative treatment

Postoperative treatment with locking compression plates does not differ from conventional internal fixation procedures.

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Implant removal

Optional set

01.240.001    Screw Removal Set

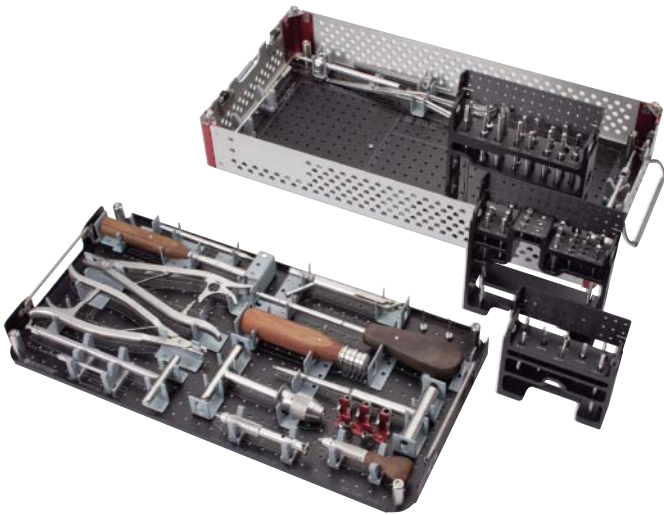
Optional instruments

309.520\*    Conical Extraction Screw

311.43    Handle, with quick coupling

To remove locking screws, unlock all screws from the plate, then remove the screws completely from the bone. This prevents simultaneous rotation of the plate when unlocking the last locking screw.

If the screws cannot be removed with the screwdriver (e.g., if the hexagonal or StarDrive recesses of the locking screws are damaged or if the screws are stuck in the plate), insert the conical extraction screw with left-handed thread into the screwhead, using the handle with quick coupling, and loosen the locking screw by turning counterclockwise.

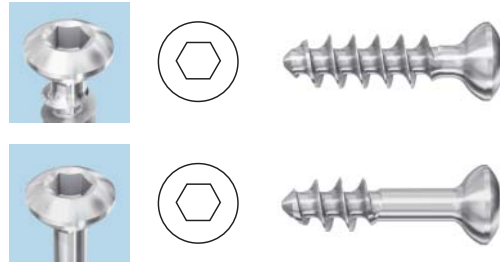


\* Included in set 01.240.001

# Screws Used with the 3.5 mm LCP Clavicle Plate System

## 4.0 mm Cancellous Bone Screws

- May be used in the DCU portion of the Combi holes
- Compress the plate to the bone or create axial compression
- Fully or partially threaded shaft
- Available in stainless steel or titanium



## 3.5 mm Cortex Screws, self-tapping

- May be used in the DCU portion of the Combi holes
- Compress the plate to the bone or create axial compression
- Available in stainless steel or titanium alloy



## 3.5 mm Locking Screws, self-tapping

- Used in the locking portion of the Combi holes
- Create a locked, fixed-angle screw/plate construct
- Available in stainless steel or titanium alloy



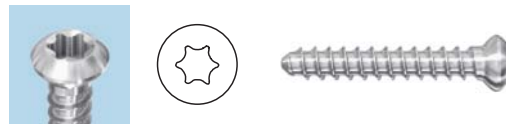
## 2.7 mm Locking Screws, self-tapping

- Used in the distal locking holes
- Create a locked, fixed angle screw/plate construct
- Available in stainless steel or titanium alloy



## 2.4 mm Cortex Screws, self-tapping

- May be used in the distal locking holes
- Compress the plate to the bone
- Available in stainless steel or titanium alloy



Screws are available in the following materials:  
Implant quality 316L stainless steel, commercially pure titanium, and titanium alloy (Ti-6Al-7Nb)

# 3.5 mm LCP Superior Clavicle Plates

## 3.5 mm LCP Superior Clavicle Plates◊

Stainless Steel			Titanium		Holes	Length (mm)	
02.112.080	04.112.080	6	85	right			
02.112.081	04.112.081	6	85	left			
02.112.082	04.112.082	7	100	right			
02.112.083	04.112.083	7	100	left			
02.112.084	04.112.084	8	115	right			
02.112.085	04.112.085	8	115	left			



## 3.5 mm LCP Superior Clavicle Plates, with lateral extension◊

Stainless Steel			Titanium		Holes	Length (mm)	
02.112.090	04.112.090	6	105	right			
02.112.091	04.112.091	6	105	left			
02.112.092	04.112.092	7	120	right			
02.112.093	04.112.093	7	120	left			
02.112.094	04.112.094	8	130	right			
02.112.095	04.112.095	8	130	left			



◊ Available nonsterile and sterile-packed. Add “S” to product number for sterile product.

## 3.5 mm LCP Superior Anterior Clavicle Plates

### 3.5 mm LCP Superior Anterior Clavicle Plates<sup>◇</sup>

Stainless Steel	Titanium	Holes	Length (mm)	
02.112.026	04.112.026	6	94	right
02.112.027	04.112.027	6	94	left
02.112.028	04.112.028	7	110	right
02.112.029	04.112.029	7	110	left
02.112.030	04.112.030	8	120	right
02.112.031	04.112.031	8	120	left



### 3.5 mm LCP Superior Anterior Clavicle Plates, with lateral extension<sup>◇</sup>

Stainless Steel	Titanium	Holes	Length (mm)	
02.112.006	04.112.006	3	69	right
02.112.007	04.112.007	3	69	left
02.112.010	04.112.010	4	81	right
02.112.011	04.112.011	4	81	left
02.112.012	04.112.012	5	94	right
02.112.013	04.112.013	5	94	left
02.112.008	04.112.008	6	108	right
02.112.009	04.112.009	6	108	left
02.112.018	04.112.018	7	123	right
02.112.019	04.112.019	7	123	left
02.112.020	04.112.020	8	135	right
02.112.021	04.112.021	8	135	left



<sup>◇</sup> Available nonsterile and sterile-packed. Add "S" to product number for sterile-product.



2.7 mm/3.5 mm VA-LCP Anterior Clavicle Plates\*

2.7 mm/3.5 mm VA-LCP Lateral Anterior Clavicle Plates <sup>◊</sup>			
Stainless Steel	Titanium	Holes	Length (mm)
02.112.045	04.112.045	7	77
02.112.046	04.112.046	9	89
02.112.047	04.112.047	10	101



3.5 mm LCP Medial Anterior Clavicle Plates <sup>◊</sup>			
Stainless Steel	Titanium	Holes	Length (mm)
02.112.040	04.112.040	6	79
02.112.041	04.112.041	7	91
02.112.042	04.112.042	8	102



\* Also available

# Instruments

03.112.003\* 2.8 mm Calibrated Drill Bit, short,  
with drill stop



310.510 1.8 mm Drill Bit, quick coupling, 100 mm



311.43 Handle, with quick coupling



313.353 2.0 mm LCP Solid Threaded Drill Guide



314.467 StarDrive Screwdriver Shaft, T8, 105 mm








314.468 Holding Sleeve, for StarDrive Screwdriver  
Shaft, T8



319.006 Depth Gauge, for 2.0 and 2.4 mm screws,  
measures up to 50 mm



\* Also available

323.061	2.0 mm Threaded Drill Guide, with Depth Gauge	
323.062	2.0 mm Drill Bit with Depth Mark, quick coupling, 140 mm	
323.202	2.4 mm Universal Drill Guide	
329.291	Bending Pliers, for 3.5 mm Clavicle Plates, 227 mm length	
511.776*	Torque Limiting Attachment, 0.8 Nm, quick coupling	

\* Also available

## Selected Instruments from the Small Fragment LCP Instrument and Implant Set

Stainless Steel (105.434) and Titanium (145.434)

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292.20      2.0 mm Kirschner Wire, 150 mm, trocar point



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310.25      2.5 mm Drill Bit, quick coupling, 110 mm, gold



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310.288      2.8 mm Drill Bit, quick coupling, 165 mm



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312.648      2.8 mm Threaded Drill Guide



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314.02      Small Hexagonal Screwdriver with Holding Sleeve



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314.03      Small Hexagonal Screwdriver Shaft



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314.115      StarDrive Screwdriver, T15



314.116	StarDrive Screwdriver Shaft, T15, quick coupling	
319.01	Depth Gauge, for 2.7 mm and small screws	
323.26	2.7 mm Universal Drill Guide	
323.36	3.5 mm Universal Drill Guide	
329.04	Bending Iron (used with 329.05)	
329.05	Bending Iron (used with 329.04)	
511.773	Torque Limiting Attachment, 1.5 Nm, quick coupling	

# Superior, Superior-Anterior and Anterior Clavicle Plate Instrument and Implant Set

Stainless Steel (01.112.200) and Titanium (01.112.400)

## Graphic Cases

- 60.116.004 Graphic Case, 2/3 length, 4 bay
- 60.116.022 Instrument Tray, for 2.7 mm Cortex, Locking and Variable Angle Locking Screws, 1/3 length
- 60.112.040 Clavicle Instrument Tray
- 60.112.035 Labels for Clavicle Plate System

## Instruments

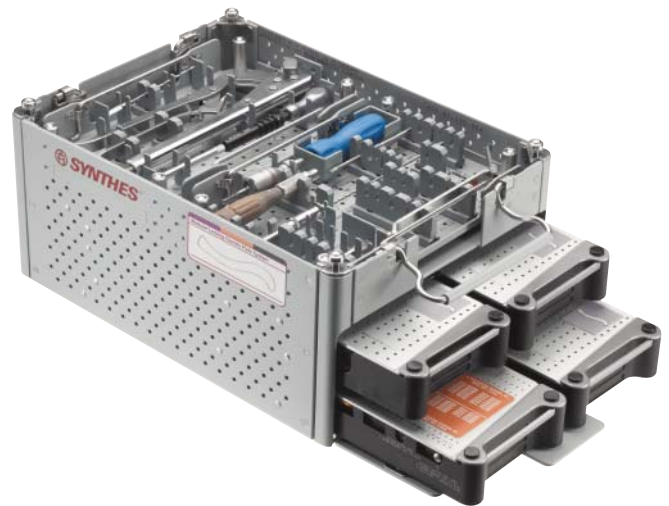
- 03.110.002 Torque Limiting Attachment, 1.2 Nm
- 03.110.005 Handle for Torque Limiting Attachment
- 03.211.002 2.0 mm Universal Variable Angle Locking Drill Guide
- 310.510 1.8 mm Drill Bit, quick coupling, 100 mm, 2 ea.
- 311.43 Handle with quick coupling
- 313.353 2.0 mm LCP Solid Threaded Drill Guide
- 314.467 StarDrive Screwdriver Shaft, T8, 105 mm
- 314.468 Holding Sleeve, for StarDrive Screwdriver Shaft, T8
- 319.006 Depth Gauge, for 2.0 and 2.4 screws
- 323.061 2.0 mm Threaded Drill Guide with Depth Gauge
- 323.062 2.0 mm Drill Bit with Depth Mark, quick coupling, 140 mm, 2 ea.
- 323.202 2.4 mm Universal Drill Guide
- 329.291 Bending Pliers for 3.5 mm Clavicle Plates, 227 mm length

## Sets included in 01.112.200

- 01.112.292 2.7 mm Variable Angle, 2.7 mm Locking and 2.4 mm Cortex Screw Set
- 01.112.294 Superior Clavicle Plate Set
- 01.112.296 Superior-Anterior Clavicle Plate Set
- 01.112.298 Anterior Clavicle Plate Set

## Sets included in 01.112.400

- 01.112.492 Titanium 2.7 mm Variable Angle, 2.7 mm Locking and 2.4 mm Cortex Screw Set
- 01.112.494 Titanium Superior Clavicle Plate Set
- 01.112.496 Titanium Superior-Anterior Clavicle Plate Set
- 01.112.498 Titanium Anterior Clavicle Plate Set



Note: For additional information, please refer to package insert.  
For detailed cleaning and sterilization instructions, please refer to <http://us.synthes.com/Medical+Community/Cleaning+and+Sterilization.htm> or to the below listed inserts, which will be included in the shipping container:

- Processing Synthes Reusable Medical Devices—Instruments, Instrument Trays and Graphic Cases—DJ1305
- Processing Non-sterile Synthes Implants—DJ1304

# Superior and Superior-Anterior Clavicle Plate Instrument and Implant Set

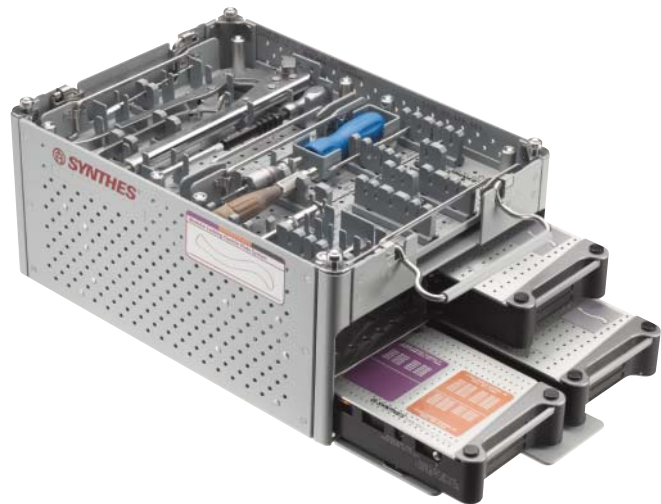
## Stainless Steel (01.112.203) and Titanium (01.112.403)

### Graphic Cases

- 60.116.004 Graphic Case, 2/3 length, 4 bay
- 60.116.022 Instrument Tray, for 2.7 mm Cortex, Locking and Variable Angle Locking Screws, 1/3 length
- 60.112.040 Clavicle Instrument Tray
- 60.112.035 Labels for Clavicle Plate System

### Instruments

- 03.110.002 Torque Limiting Attachment, 1.2 Nm
- 03.110.005 Handle for Torque Limiting Attachment
- 310.510 1.8 mm Drill Bit, quick coupling, 100 mm, 2 ea.
- 311.43 Handle with quick coupling
- 313.353 2.0 mm LCP Solid Threaded Drill Guide
- 314.467 StarDrive Screwdriver Shaft T8, 105 mm
- 314.468 Holding Sleeve, for StarDrive Screwdriver Shaft, T8
- 319.006 Depth Gauge, for 2.0 and 2.4 screws
- 323.061 2.0 mm Threaded Drill Guide with Depth Gauge
- 323.062 2.0 mm Drill Bit with Depth Mark, quick coupling, 140 mm, 2 ea.
- 323.202 2.4 mm Universal Drill Guide
- 329.291 Bending Pliers for 3.5 mm Clavicle Plates, 227 mm length



### Sets included in 01.112.203

- 01.112.290 2.7 mm locking and 2.4 mm Cortex Screw Set
- 01.112.294 Superior Clavicle Plate Set
- 01.112.296 Superior-Anterior Clavicle Plate Set

### Sets included in 01.112.403

- 01.112.490 Titanium 2.7 mm Locking and 2.4 mm Cortex Screw Set
- 01.112.494 Titanium Superior Clavicle Plate Set
- 01.112.496 Titanium Superior-Anterior Clavicle Plate Set



# Anterior Clavicle Plate Instrument and Implant Set

## Stainless Steel (01.112.201) and Titanium (01.112.401)

### Graphic Cases

- 60.116.004 Graphic Case, 2/3 length, 4 bay
- 60.116.022 Instrument Tray, for 2.7 mm Cortex, Locking and Variable Angle Screws, 1/3 length
- 60.112.040 Clavicle Instrument Tray
- 60.112.035 Labels for Clavicle Plate System

### Instruments

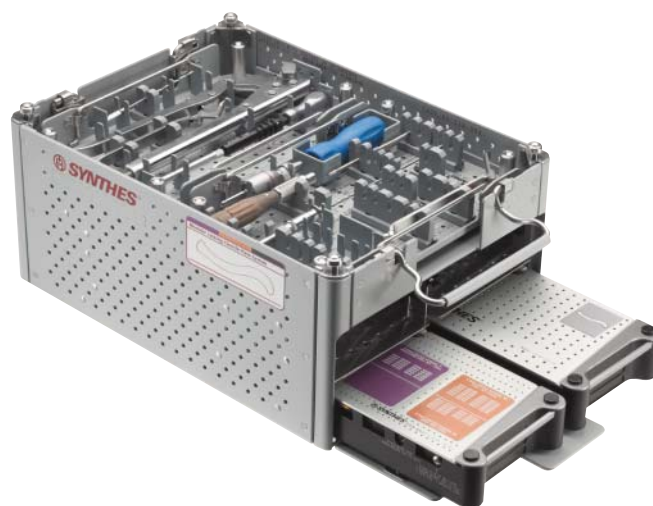
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- 314.468 Holding Sleeve, for StarDrive Screwdriver Shaft, T8
- 319.006 Depth Gauge, for 2.0 and 2.4 screws
- 323.062 2.0 mm Drill Bit with Depth Mark, quick coupling, 140 mm, 2 ea.
- 323.202 2.4 mm Universal Drill Guide
- 329.291 Bending Pliers for 3.5 mm Clavicle Plates, 227 mm length

### Sets included in 01.112.201

- 01.112.288 2.7 mm Variable Angle and 2.4 mm Cortex Screw Module Set
- 01.112.298 Anterior Clavicle Plate Module Set

### Sets included in 01.112.401

- 01.112.488 Titanium 2.7 mm Variable Angle and 2.4 mm Cortex Screw Module Set
- 01.112.498 Titanium Anterior Clavicle Plate Module Set



## 2.7 mm Locking and 2.4 mm Cortex Screw Set

Stainless Steel (01.112.290) and Titanium (01.112.490)

### Graphic Cases

60.116.050	Screw Module Shell
60.116.059	2.7 mm Screw Block
60.116.071	2.4 mm Flip-Up Screw Rack
60.116.554	Label Pack, for 2.4 mm screws and instruments
60.116.555	Label Pack, for 2.7 mm screws and instruments
60.116.507	Screw Type Push Pin, Cortex
60.116.517	Screw Type Push Pin, Self-tapping
60.116.513	Screw Type Push Pin, Locking
60.116.452	Screw Type Push Pin, Blank
01.116.533	Screw Length Marker Push Pin Set, 6 mm – 40 mm, 2 mm increments



### Implants

2.7 mm Locking Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
202.208	402.208	8
202.210	402.210	10
202.212	402.212	12
202.214	402.214	14
202.216	402.216	16
202.218	402.218	18
202.220	402.220	20
202.222	402.222	22

2.4 mm Cortex Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
201.760	401.760	10
201.762	401.762	12
201.764	401.764	14
201.766	401.766	16
201.768	401.768	18
201.770	401.770	20
201.772	401.772	22
201.774	401.774	24
201.776	401.776	26
201.778	401.778	28
201.780	401.780	30
201.782	401.782	32
201.784	401.784	34
201.786	401.786	36

## 2.7 mm Variable Angle, 2.7 mm Locking and 2.4 mm Cortex Screw Set

Stainless Steel (01.112.292) and Titanium (01.112.492)

### Graphic Cases

60.116.050	Screw Module Shell
60.116.059	2.7 mm Screw Block
60.116.071	2.4 mm Flip-Up Screw Rack
60.116.072	2.7 mm Flip-Up Screw Rack
60.116.554	Label Pack, for 2.4 mm screws and instruments
60.116.555	Label Pack, for 2.7 mm screws and instruments
60.116.507	Screw Type Push Pin, Cortex
60.116.517	Screw Type Push Pin, Self-tapping
60.116.521	Screw Type Push Pin, Variable Angle Locking
60.116.513	Screw Type Push Pin, Locking
60.116.452	Screw Type Push Pin, Blank
01.116.533	Screw Length Marker Push Pin Set, 6 mm – 40 mm, 2 mm increments

### Implants

2.7 mm Variable Angle Locking Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
02.211.010	04.211.010	10
02.211.012	04.211.012	12
02.211.014	04.211.014	14
02.211.016	04.211.016	16
02.211.018	04.211.018	18
02.211.020	04.211.020	20
02.211.022	04.211.022	22
02.211.024	04.211.024	24
02.211.026	04.211.026	26
02.211.028	04.211.028	28
02.211.030	04.211.030	30
02.211.032	04.211.032	32
02.211.034	04.211.034	34
02.211.036	04.211.036	36
02.211.038	04.211.038	38
02.211.040	04.211.040	40



2.7 mm Locking Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
202.208	402.208	8
202.210	402.210	10
202.212	402.212	12
202.214	402.214	14
202.216	402.216	16
202.218	402.218	18
202.220	402.220	20
202.222	402.222	22

2.4 mm Cortex Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
201.760	401.760	10
201.762	401.762	12
201.764	401.764	14
201.766	401.766	16
201.768	401.768	18
201.770	401.770	20
201.772	401.772	22
201.774	401.774	24
201.776	401.776	26
201.778	401.778	28
201.780	401.780	30
201.782	401.782	32
201.784	401.784	34
201.786	401.786	36

## 2.7 mm VA and 2.4 mm Cortex Screw Set

Stainless Steel (01.112.288) and Titanium (01.112.488)

### Graphic Cases

60.116.050	Screw Module Shell
60.116.059	2.7 mm Screw Block
60.116.071	2.4 mm Flip-Up Screw Rack
60.116.072	2.7 mm Flip-Up Screw Rack
60.116.554	Label Pack, for 2.4 mm screws and instruments
60.116.555	Label Pack, for 2.7 mm screws and instruments
60.116.507	Screw Type Push Pin, Cortex
60.116.517	Screw Type Push Pin, Self-tapping
60.116.521	Screw Type Push Pin, Variable Angle Locking
60.116.452	Screw Type Push Pin, Blank
01.116.533	Screw Length Marker Push Pin Set, 6 mm – 40 mm, 2 mm increments



### Implants

2.7 mm Variable Angle Locking Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
02.211.010	04.211.010	10
02.211.012	04.211.012	12
02.211.014	04.211.014	14
02.211.016	04.211.016	16
02.211.018	04.211.018	18
02.211.020	04.211.020	20
02.211.022	04.211.022	22
02.211.024	04.211.024	24
02.211.026	04.211.026	26
02.211.028	04.211.028	28
02.211.030	04.211.030	30
02.211.032	04.211.032	32
02.211.034	04.211.034	34
02.211.036	04.211.036	36
02.211.038	04.211.038	38
02.211.040	04.211.040	40

2.4 mm Cortex Screws, self-tapping, with T8 StarDrive recess, 3 ea.

Stainless

Steel	Titanium	Length (mm)
201.760	401.760	10
201.762	401.762	12
201.764	401.764	14
201.766	401.766	16
201.768	401.768	18
201.770	401.770	20
201.772	401.772	22
201.774	401.774	24
201.776	401.776	26
201.778	401.778	28
201.780	401.780	30
201.782	401.782	32
201.784	401.784	34
201.786	401.786	36

# Superior Clavicle Plate Set

Stainless Steel (01.112.294) and Titanium (01.112.494)

## Graphic Cases

60.112.038	Superior Clavicle Plate Tray
60.112.039	Superior Clavicle Plate Tray with Extension
60.116.052	Module Shell, for Plate Trays and Auxiliary Trays

## Implants

### 3.5 mm LCP Superior Clavicle Plates

Stainless Steel	Titanium	Holes	Length (mm)	
02.112.080	04.112.080	6	85	Right
02.112.081	04.112.081	6	85	Left
02.112.082	04.112.082	7	100	Right
02.112.083	04.112.083	7	100	Left
02.112.084	04.112.084	8	115	Right
02.112.085	04.112.085	8	115	Left

### 3.5 mm LCP Superior Anterior Clavicle Plates, with Lateral Extension

Stainless Steel	Titanium	Holes	Length (mm)	
02.112.006	04.112.006	3	69	Right
02.112.007	04.112.007	3	69	Left
02.112.010	04.112.010	4	81	Right
02.112.011	04.112.011	4	81	Left
02.112.012	04.112.012	5	94	Right
02.112.013	04.112.013	5	94	Left

### 3.5 mm LCP Superior Clavicle Plates, with Lateral Extension

Stainless Steel	Titanium	Holes	Length (mm)	
02.112.090	04.112.090	6	105	Right
02.112.091	04.112.091	6	105	Left
02.112.092	04.112.092	7	120	Right
02.112.093	04.112.093	7	120	Left
02.112.094	04.112.094	8	130	Right
02.112.095	04.112.095	8	130	Left



# Superior Anterior Clavicle Plate Set

Stainless Steel (01.112.296) and Titanium (01.112.496)

## Graphic Cases

- 60.112.036 Superior Anterior Clavicle Plate Tray
- 60.112.037 Superior Anterior Clavicle Plate Tray with Extension
- 60.116.052 Module Shell, for Plate Trays and Auxiliary Trays



## Implants

3.5 mm LCP Superior Anterior Clavicle Plates

Stainless Steel		Titanium		Holes	Length (mm)	
Steel		Titanium				
02.112.026		04.112.026		6	94	Right
02.112.027		04.112.027		6	94	Left
02.112.028		04.112.028		7	110	Right
02.112.029		04.112.029		7	110	Left
02.112.030		04.112.030		8	120	Right
02.112.031		04.112.031		8	120	Left

3.5 mm LCP Superior Anterior Clavicle Plates, with Lateral Extension

Stainless Steel		Titanium		Holes	Length (mm)	
Steel		Titanium				
02.112.008		04.112.008		6	108	Right
02.112.009		04.112.009		6	108	Left
02.112.018		04.112.018		7	123	Right
02.112.019		04.112.019		7	123	Left
02.112.020		04.112.020		8	135	Right
02.112.021		04.112.021		8	135	Left

# Anterior Clavicle Plate Set

Stainless Steel (01.112.298) and Titanium (01.112.498)

## Graphic Cases

- 60.112.041 Anterior Clavicle Plate Tray
- 60.116.052 Module Shell, for Plate Trays and Auxiliary Trays
- 60.116.201 Auxiliary Bin, full length, 1/2 height

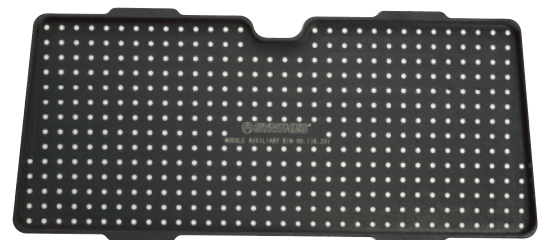
## Implants

3.5 mm LCP Medial Anterior Clavicle Plates

Stainless Steel	Titanium	Holes	Length (mm)
02.112.040	04.112.040	6	79
02.112.041	04.112.041	7	91
02.112.042	04.112.042	8	102

2.7 mm/3.5 mm VA-LCP Lateral Anterior Clavicle Plates

Stainless Steel	Titanium	Holes	Length (mm)
02.112.045	04.112.045	7	77
02.112.046	04.112.046	9	89
02.112.047	04.112.047	10	101







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