Versatile solutions for periprosthetic and periarticular fractures

Stainless steel and/or titanium implants
Periprosthetic fractures present unique challenges, such as how to gain fixation when the medullary canal is occupied. Special techniques and products have been developed to address these fractures.

Synthes offers versatile solutions for treatment of periprosthetic fractures that include retrograde nails, enhanced plate devices and plate-cable constructs. Specialty products, such as periprosthetic locking screws, adapt Synthes locking plates for fixation without entering the medullary canal. Cerclage buttons and pins allow the use of cable with any of our broad range of locking and nonlocking plates. Together, these devices create periprosthetic solutions for every anatomic region. Additionally, periprosthetic instrumentation has been designed to facilitate the use of these implants.

This brochure provides a brief overview of Synthes options for periprosthetic and periarticular fractures. For detailed information, please contact your Synthes Sales Consultant.
Periprosthetic and Proximal Femur Solutions

**Periprosthetic Plates**

- 4.5 mm LCP Curved Broad Plate (226.682 shown)*

- 4.5 mm LCP Curved Condylar Plate (02.001.326 shown)

- 3.5 mm Locking Attachment Plates, for 4.5 mm LCP plates (02.120.601 and 02.120.602)*

- Titanium Trochanteric Reattachment Device, with cobalt chromium cables, long, sterile (498.8075 shown)

**Proximal Femur Plates**

- 4.5 mm LCP Proximal Femur Plate (242.114 shown)

- 4.5 mm LCP Proximal Femur Hook Plate (242.125 shown)

- 3.5 mm Locking Attachment Plates, for 4.5 mm LCP proximal femur plates (02.120.603 and 02.120.604)

* Also available in titanium
Periprosthetic and Distal Femur Solutions

LCP Distal Femur Plate (222.258 shown)*

4.5 mm LCP Curved Condylar Plate (02.001.326 shown)

Distal Femur Less Invasive Stabilization System (LISS) Plate (422.344 shown)

3.5 mm Locking Attachment Plates, for 4.5 mm LCP plates (02.120.601 and 02.120.602)*

Retrograde/Antegrade Femoral Nail (04.013.552S shown)

* Also available in titanium
Periprosthetic and Other Proximal Tibia Solutions

Periprosthetic Plates

3.5 mm and 4.5 mm LCP Proximal Tibia Plate (239.934 and 240.046 shown)*

4.5 mm LCP Proximal Lateral Tibia Plate (222.224 shown)*

Proximal Tibia Less Invasive Stabilization System (LISS) Plate (422.304 shown)

Additional Proximal Tibia Plate

3.5 mm and 4.5 mm LCP Medial Proximal Tibia Plate (239.906 and 239.990 shown)*

* Also available in titanium
Periprosthetic Implants

Locking attachment plates, periprosthetic screws, cables and special cable anchoring devices provide flexibility in plating a fracture.

3.5 mm Locking Attachment Plates (02.120.601–02.120.604)
- Compatible with the Synthes 4.5 mm locking compression plate (LCP) system
- Two-part connecting screw can be used in the threaded portion of a Combi hole in any 4.5 mm LCP plate
- Low profile and anatomically contoured
- Angled 3.5 mm locking and 3.5 mm cortex screws on each side of the plate avoid the prosthesis stem
- 3.5 mm locking screws create a fixed-angled construct that improves fixation
- The arms can be bent and easily cut for better fit according to specific patient anatomy
- Available in stainless steel and titanium

5.0 mm Periprosthetic Screws (02.221.508–02.221.518)
- Blunt tip locking screw optimizes unicortical fixation of fractures when an intramedullary implant is present
- For use with 4.5 mm LCP plates
- Self-retaining T25 StarDrive recess
- Self-tapping flutes
- Multiple lengths in both stainless steel and titanium

Cerclage Cable
- Provides fixation with plates and cable positioning devices
- Available in 1.0 mm and 1.7 mm diameters
- Incorporates (8x7) + (1x19) weave for greater flexibility and control
- Available in 316L stainless steel, titanium alloy and L605 cobalt chromium alloy
Cable anchoring devices have “eyes” to capture the cable and are inserted into unused plate holes or the drive recess of screws, making every plate hole an option for cable attachment.

**Cerclage Buttons** (02.221.002S–02.221.004S)
- Sit in screwhead recess to provide supplementary cable fixation when a screw may not have adequate purchase
- May be used with unicortical screws around prostheses to enhance fixation with cable
- Two sizes designed to fit in the heads of 3.5 mm and 4.5 mm screws
- Long stem buttons fit into the heads of cannulated screws (5.0 mm cannulated locking, 6.5 mm cannulated, 7.3 mm cannulated, and 7.3 mm cannulated locking)
- Available in commercially pure titanium or 316L stainless steel

**Cerclage Positioning Pins** (298.803S–298.839S)
- Seat directly into empty plate hole to maintain position of the cable relative to the plate
- No plate contouring required
- Threaded pins are used in locking holes. Pins with posts are used in nonlocking holes and held in place by inserting the post into a 3.2 mm pilot hole in the bone
- For use with 3.5 mm and 4.5 mm LCP, LC-DCP and DCP plates
- Available in commercially pure titanium or 316L stainless steel

**Crimp Positioning Pins** (02.221.005S–02.221.006S)
- Combine a cable crimp and positioning pin in one piece
- Seat directly into locking holes to maintain the position of the cable relative to the plate
- Two sizes, to fit 5.0 mm or 7.3 mm locking holes
- For use with Synthes 1.7 mm cable and 4.5 mm LCP plates
- Available in 316L stainless steel (5.0 mm and 7.3 mm) or commercially pure titanium (5.0 mm only), sterile-packaged only
**Cable Passers**
- Medium and large hooks
- Straight and 45° angled tips
- Straight and curved shafts

![Cable Passers](image)
**Cable Tensioner**
- Cannulated body fits all cable sizes
- Calibration marks indicate applied tension
- Removable tips allow provisional tensioning until all cables are tensioned

![Cable Tensioner Image](image1.png)

**Cable Crimper**
- One-handed compression
- Ensures necessary force is applied
- Provides consistent pressure with each operation

![Cable Crimper Image](image2.png)
Cutters
Cable Cutter, standard

Cable Cutter, large

Cable Cutter with Trigger Handle
- Ergonomic trigger handle permits one-handed cutting while maximizing comfort
- Replaceable blade
- Cuts close to the crimp without fraying the cable
The LCP Periprosthetic System and the Orthopaedic Cable System provide two options for implanting Synthes cerclage cables.

**LCP Periprosthetic System** (01.225.602 shown)
Set includes key instruments from the Orthopaedic Cable System along with 4.5 mm LCP curved broad plates and 5.0 mm periprosthetic screws.

**Orthopaedic Cable System** (105.924 shown)
Set includes all of the necessary instrumentation for passing, tensioning, crimping and cutting cables efficiently and securely.