Acumed® is a global leader of innovative orthopaedic and medical solutions.

We are dedicated to developing products, service methods, and approaches that improve patient care.

**Acumed® Osteotomy System**

The Acumed Osteotomy System features the Ulna Shortening Plate, designed to offer a low-profile plate with built-in osteotomy reference lines and an Osteotomy Guide. The reference lines on the plate help facilitate the creation of the osteotomy when a “freehand cut” is preferred. Designed in conjunction with William B. Geissler, MD, the low-profile Ulna Shortening Plate is designed to keep the screw heads as low as possible. The interfragmentary screw may be placed in one of two locations through the scalloped slot and is intended to compress the osteotomy securely when used as a lag screw. The plate offers the option to lock up to three screws distally and one proximally.

**Indications for an ulna shortening osteotomy include:**

- Ulnar Impaction Syndrome due to ulnar-positive variance
- Distal radial ulnar joint (DRUJ) incongruity due to shortening of the radius
- Traumatic and degenerative tears of the triangular fibrocartilage complex (TFCC) associated with positive ulnar variance
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System Features

**Built-in Osteotomy Reference Guides**

Measurement reference lines on the side of the plate visually display the amount of shortening which can be obtained. Each 40° oblique laser line and spacing in between represents 2 mm of shortening. The perpendicular lines near the measurement slot are also spaced 2 mm apart and are designed to indicate the shortening obtained from the osteotomy.

**Advanced Instrumentation**

The Ulnar Shortening Reduction Clamp (80-0423) utilizes a speed-lock wheel designed to maintain a hands-free compression of the osteotomy. The multipurpose temporary Ulnar Shortening Reduction Peg (80-0422) is partially threaded to help ensure that the far cortex is not tapped prior to it being replaced by a screw. The Ulnar Shortening 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.
Instrumentation Overview

- **6-Hole Ulna Shortening Plate** (PL-UL06)
- **Ulnar Shortening Guide Locking Bolt** (80-0421)
- **Ulnar Shortening Guide Bottom Plate** (80-0420)
- **Ulnar Shortening Reduction Peg** (80-0422)
- **Osteotomy Saw Blade Hub Style S** (80-0740-S)
- **Ulnar Shortening Guide Left** (80-0418)
- **3.5 mm Locking Hexalobe Screw** (30-XXXX)
- **3.5 mm Nonlocking Hexalobe Screw** (30-XXXX)
- **3.5 mm Locking Cortical Screw** (COL-3XXX)
- **3.5 mm Cortical Screw** (CO-3XXX)
- **Plate Tack** (PL-PTACK)
- **Ulnar Shortening Guide Right** (80-0419)
- **T15 Stick Fit Hexalobe Driver** (80-0760)
- **2.5 mm Quick Release Hex Driver** (HPC-0025)
- **.054" x 6" Guide Wire** (WS-1406ST)
- **2.8 mm Quick Release Drill** (80-0387)
- **3.5 mm x 5" Quick Release Drill** (MS-DC35)
- **Ulnar Shortening Reduction Clamp** (80-0423)
- **Reduction Forceps with Serrated Jaw** (PL-CL04)
- **Large Cannulated Quick Release Driver Handle** (MS-3200)
- **2.8 mm / 3.5 mm Thin Drill Guide** (PL-2196)
- **2.8 mm / 3.5 mm Thin Drill Guide 6–65 mm** (80-0384)
- **2.8 mm Hexalobe Locking Drill Guide 6–65 mm** (80-0668)
- **2.8 mm Locking Drill Guide 6–65 mm** (80-0384)
- **Osteotomy Saw Blade Hub Style DS** (80-2017-S)
- **Osteotomy Saw Blade Hub Style L** (80-0739-S)
- **Osteotomy Saw Blade Hub Style S** (80-0740-S)
- **2.8 mm Locking Drill Guide 6–65 mm** (80-0668)
- **2.8 mm Locking Drill Guide 6–65 mm** (80-0384)
- **2.8 mm / 3.5 mm Thin Drill Guide** (PL-2196)
Surgical Technique Overview

Align

Insert

Secure

Osteotomy Guide Assembly Instructions

Placement

Guide Placement

K-song Placement

Osteotomy with Guide Technique

Osteotomy Without Guide Technique
Acumed® Osteotomy System Surgical Technique

Osteotomy

Gap Reduction

Screw Placement

Final Confirmation
Osteotomy Guide Assembly Instructions

The Acumed Osteotomy Guide Assembly (80-0418 or 80-0419, 80-0420, 80-0421) offers the ability to make adjustments needed to perform the first and second cuts without the need for numerous guides. Additionally, by allowing continuous adjustment from 1 mm to 10 mm, the osteotomy guide assembly allows resection of the desired amount.

1. **Assemble Guide and Bottom Plate**

   Ensuring that the laser-marked arrows are aligned (Figure 1), slide the Ulnar Shortening Guide Bottom Plate (80-0420) into the appropriate Ulnar Shortening Guide (80-0418 or 80-0419). Ensure that the bottom plate is completely engaged into the ulnar shortening guide (Figure 2).

   **Note:** The subsequent technique is for a volar approach with the ulnar shortening guide. If a medial approach is taken, the opposite ulnar shortening guide can be used. For example, use the left ulnar shortening guide for a medial approach if the osteotomy is performed on the right ulna. Be sure the cutting slot lines up with the angled measurement reference lines on the plate.

2. **Insert Locking Bolt**

   Slide the guide bottom plate distal enough so that the Ulnar Shortening Guide Locking Bolt (80-0421) can be inserted through both pieces (Figure 3).
Osteotomy With Guide Technique
William B. Geissler, MD

1 Plate Placement

Determine the amount of ulnar variance by reviewing preoperative X-rays. After exposing the volar side of the ulna, place the plate 3–5 cm proximal to the distal end of the ulna. Secure the 6-Hole Ulna Shortening Plate (PL-UL06) to the volar surface with one or more clamps, such as the Reduction Forceps with Serrated Jaw (PL-CL04). Make sure the proximal and distal orientation of the plate is correct, as noted by the laser marks on the plate.

2 Distal Screw and Reduction Peg Placement

Depending on your choice of screw, drill the most distal locking hole using the appropriate 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668 – see chart below) and 2.8 mm Quick Release Drill (80-0387). Then insert the proper length 3.5 mm Locking Cortical or Hexalobe Screw (COL-3XXX or 30-XXXX) with the proper Hex (HPC-0025) or Hexalobe (80-0760) Driver. In the proximal end of the measurement slot, drill bicortically and perpendicular to the plate and insert the temporary Ulnar Shortening Reduction Peg (80-0422) with a 2.5 mm Quick Release Hex Driver (HPC-0025).

Option: Predrill the two remaining distal locking holes in the same manner with the appropriate 2.8 mm locking drill guide but **DO NOT INSERT SCREWS**. This optional step can also occur after the osteotomy has been achieved based on surgeon preference.

Drill Guide and Driver Selections

<table>
<thead>
<tr>
<th>Screw</th>
<th>Drill Guide</th>
<th>Driver</th>
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<tbody>
<tr>
<td>Hex (Cortical) Screw</td>
<td>2.8 mm Locking Drill Guide 6–65 mm (80-0384)</td>
<td>2.5 mm Quick Release Hex Driver (HPC-0025)</td>
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<tr>
<td>Hexalobe Screw</td>
<td>2.8 mm Hexalobe Locking Drill Guide 6–65 mm (80-0668)</td>
<td>T15 Stick Fit Hexalobe Driver (80-0760)</td>
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</tbody>
</table>

6-Hole Ulna Shortening Plate (PL-UL06)
Reduction Forceps with Serrated Jaw (PL-CL04)
2.8 mm Locking Drill Guide 6–65 mm (80-0384)
2.8 mm Hexalobe Locking Drill Guide 6–65 mm (80-0668)
3.5 mm Locking Cortical Screw (COL-3XXX)
3.5 mm Locking Hexalobe Screw (30-XXXX)
2.5 mm Quick Release Hex Driver (HPC-0025)
T15 Stick Fit Hexalobe Driver (80-0760)
2.8 mm Quick Release Drill (80-0387)
Ulnar Shortening Reduction Peg (80-0422)
3 Osteotomy Guide Placement

Remove the clamp and insert the Osteotomy Guide Assembly (80-0418 or 80-0419, 80-0420, 80-0421) so that the Ulnar Shortening Guide Locking Bolt (80-0421) is inserted into the third most distal locking hole closest to the lasered reference lines. The cutting slot on the osteotomy guide assembly will be aligned with the angled laser lines on the plate.

4 Locking Bolt Tightening

Set the osteotomy guide assembly to the 1 mm mark in the measurement window and firmly tighten the locking bolt with a 2.5 mm Quick Release Hex Driver (HPC-0025) or T15 Stick Fit Hexalobe Driver (80-0760).
Osteotomy With Guide Technique [continued]

5 Provisional Wire Placement

For additional rotational stability, a Plate Tack (PL-PTACK) may be inserted into the proximal locking hole and a .054” K-wire (WS-1406ST) can be inserted into the K-wire hole in the distal end of the plate. A second .054” K-wire may be inserted through the Osteotomy Guide Assembly (80-0418 or 80-0419, 80-0420, 80-0421) and into the bone for additional stability.

6 Initial Osteotomy Creation

Insert the Osteotomy Saw Blade (80-0739-S, 80-0740-S, or 80-2017-S) into the osteotomy guide assembly cutting slot and make the first cut. Generously irrigate the osteotomy.

Note: The use of a generic saw blade with the Osteotomy System must meet the following specifications and is considered the responsibility of the user. The cutting slot is .68 mm (.027”) wide. The saw blade used must be thinner than the cutting slot and should allow for a minimum cutting depth of 25 mm in order to pass through the guide and bone. Saw blades smaller than .5 mm may be too thin and can increase the chance of an unparallel cut. If the kerf of the blade does not clear the slot, it may be inserted by sliding the shaft of the blade through the open-end of the cutting slot.

Optional Saw Blades

- Osteotomy Saw Blade Hub Style L (80-0739-S)
- Osteotomy Saw Blade Hub Style S (80-0740-S)
- Osteotomy Saw Blade Hub Style DS (80-2017-S)

Each blade has a thickness of .5 mm (.020”) along the shaft and .63 mm (.025”) at the cutting edge (kerf).
7 Create Secondary Osteotomy

Remove the .054" K-wire (WS-1406ST) inserted into the Osteotomy Guide Assembly (80-0418 or 80-0419, 80-0420, 80-0421) and loosen the Ulnar Shortening Guide Locking Bolt (80-0421) just enough to slide the Ulnar Shortening Guide (80-0418 or 80-0419) to the number corresponding to the amount of shortening preferred. Firmly retighten the locking bolt with the 2.5 mm Quick Release Hex Driver (HPC-0025) or T15 Stick Fit Hexalobe Driver (80-0760).

Make sure that both sides of the ulna are re-aligned with each other and re-insert the K-wire through the osteotomy guide assembly into the bone. Make the second cut.

Note: The numbers on the Ulnar Shortening Guide Bottom Plate (80-0420) are designed to correspond to the preferred amount of bone to be resected. For example, the "4" signifies 4 mm of resection.

8 Bone Wafer Removal

Remove both K-wires, the osteotomy guide, and Plate Tack (PL-PTACK). Slightly loosen (DO NOT REMOVE) the reduction peg in the measurement slot and excise the bone wafer.
Osteotomy With Guide Technique [continued]

9 Secondary Locking Drill Guide Placement

Place a bone clamp over the distal portion of the ulna and plate to reduce the gap in between them. In the third most distal locking hole closest to the osteotomy, drill using the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668) and 2.8 mm Quick Release Drill (80-0387) if predrilling was not performed in Step 2.

Insert the proper length 3.5 mm Locking Cortical or Hexalobe Screw (COL-3XXX or 30-XXXX) or 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX). Remove the bone clamp and place the 2.8 mm locking drill guide into the second distal locking hole.

10 Osteotomy Gap Reduction

Place the Ulnar Shortening Reduction Clamp (80-0423) around the Ulnar Shortening Reduction Peg (80-0422) and 2.8 mm locking drill guide (80-0384). Reduce the osteotomy gap with the reduction clamp and tighten the speed-lock wheel on the clamp to maintain reduction hands-free.

**Note:** If the gap does not close, examine and remove any excess bone in the osteotomy site near the plate. If excess bone is present in the osteotomy site, the proximal and distal ends of the bone may be rotated under the plate to remove any bone blocking reduction.
11 **Proximal Nonlocking Screw Placement**

While holding the compression, drill the proximal end of the compression slot with the 2.8 mm Quick Release Drill (80-0387), then measure and insert a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX). Ensure that the preferred amount of shortening has been achieved by X-ray.

12 **Drilling Glide Hole**

In the scalloped lag screw slot using a 3.5 mm Quick Release Drill (MS-DC35) and the 2.8 mm/3.5 mm Thin Drill Guide (PL-2196), drill a glide hole in the near cortex at an angle across the osteotomy site (Figure 18). Although the proximal or distal portion of the slot may be used depending on the osteotomy location and preferred interfragmentary screw placement, the proximal slot is preferred. Next, place the 2.8 mm end of the drill guide into the 3.5 mm glide hole and use a 2.8 mm Quick Release Drill (80-0387) to drill the far cortex (Figure 19).

**Note:** If the angle of the drill is too shallow, the drill may collide with the adjacent screw.
Distal Locking Screw Placement

Measure and insert a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX) into the scalloped lag screw slot. Remove the Ulnar Shortening Reduction Clamp (80-0423). Drill the second distal locking hole using the 2.8 mm Quick Release Drill (80-0387) before removing the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668). Measure and insert a 3.5 mm Locking Cortical and Hexalobe Screw (COL-3XXX or 30-XXXX) into the remaining distal locking hole.

Final Screw Placement

Remove the Ulnar Shortening Reduction Peg (80-0422). Measure and replace with a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX). Drill, measure, and insert a 3.5 mm Locking Cortical and Hexalobe Screw (COL-3XXX or 30-XXXX) in the remaining proximal locking hole.
Osteotomy Without Guide Technique
William B. Geissler, MD

1 **Plate Placement**

Determine the amount of ulnar variance by reviewing preoperative X-rays. After exposing the volar side of the ulna, place the plate 3–5 cm proximal to the distal end of the ulna. Secure the 6-Hole Ulna Shortening Plate (PL-UL06) to the volar surface with one or more clamps, such as the Reduction Forceps with Serrated Jaw (PL-CL04). Make sure the proximal and distal orientation of the plate is correct, as noted by the laser marks on the plate.

2 **Distal Screw and Reduction Peg Placement**

Drill the most distal locking hole using the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668 – see chart below) and 2.8 mm Quick Release Drill (80-0387) and insert the proper length 3.5 mm Locking Cortical or Hexalobe Screw (COL-3XXX or 30-XXXX) with proper Hex (HPC-0025) or Hexalobe (80-0760) Driver. In the proximal end of the measurement slot, drill bicortically perpendicular to the plate and insert the Ulnar Shortening Reduction Peg (80-0422) with a 2.5 mm Quick Release Hex Driver (HPC-0025).

**Option:** Predrill the two remaining distal locking holes in the same manner with the 2.8 mm locking drill guide but **DO NOT INSERT SCREWS.** This optional step can also occur after the osteotomy has been achieved based on surgeon preference.
Osteotomy Without Guide Technique [continued]

3 Osteotomy Creation

Using the 40° reference marks as a visual guide, start the osteotomy at the most distal laser mark with the Osteotomy Saw Blade (80-0739-S, 80-0740-S, or 80-2017-S). Generously irrigate the osteotomy. Create the osteotomy to the determined amount of shortening and excise the bone wafer. A .054" K-wire (WS-1406ST) in the distal end of the plate and a Plate Tack (PL-PTACK) in the proximal end may be used for additional stability.

Note: Each 40° reference line and space is 2 mm wide.

Optional Saw Blades

<table>
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<tr>
<th>Blade Hub Style</th>
<th>Blade Number</th>
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<tr>
<td>L</td>
<td>80-0739-S</td>
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<tr>
<td>S</td>
<td>80-0740-S</td>
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<tr>
<td>DS</td>
<td>80-2017-S</td>
</tr>
</tbody>
</table>

Each blade has a thickness of .5 mm (.020") along the shaft and .63 mm (.025") at the cutting edge (kerf).

4 Secondary Locking Drill Guide Placement

Examine the osteotomy site near the plate. If excess bone is present in the osteotomy site, the proximal and distal ends of the bone may be rotated under the plate to remove any bone blocking the reduction.

Place a bone clamp over the distal portion of the ulna and plate to reduce the gap in between them. In the third most distal locking hole closest to the osteotomy, drill using the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668) and 3.5 mm Locking Cortical or Hexalobe Screw (COL-3XXX or 30-XXXX) if predrilling was not performed in Step 2. Insert a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX).
Osteotomy Without Guide Technique [continued]

5 Osteotomy Gap Reduction
Remove the bone clamp and place the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668) into the second distal locking hole. Slightly loosen the reduction peg in the measurement slot. Place the Ulnar Shortening Reduction Clamp (80-0423) around the Ulnar Shortening Reduction Peg (80-0422) and 2.8 mm locking drill guide. Reduce the osteotomy gap with the reduction clamp and tighten the speed-lock wheel on the clamp to maintain reduction hands-free.

6 Proximal Nonlocking Screw Placement
While holding the compression, drill the proximal end of the compression slot with a 2.8 mm Quick Release Drill (80-0387), measure and insert a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX) with a 2.5 mm Quick Release Hex Driver (HPC-0025) or T15 Stick Fit Hexalobe Driver (80-0760). Ensure that the preferred amount of shortening has been achieved by X-ray.
7 Drilling Glide Hole

In the scalloped slot, using a 3.5 mm Quick Release Drill (MS-DC35) and the 2.8 mm/3.5 mm Thin Drill Guide (PL-2196), drill a glide hole in the near cortex at an angle across the osteotomy site (Figure 29). Next, place the 2.8 mm end of the drill guide into the 3.5 mm glide hole and use a 2.8 mm Quick Release Drill (80-0387) to drill the far cortex (Figure 30). Measure and insert a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX). The proximal or distal portion of the slot may be used depending on the osteotomy location and preferred interfragmentary screw placement. The most proximal hole is preferred.

Note: If the angle of the drill is too shallow, the drill may collide with the adjacent screw.

8 Final Screw Placement

Remove reduction clamp and drill the second distal locking hole before removing the 2.8 mm Locking Drill Guide 6–65 mm (80-0384 or 80-0668). Measure and insert a 3.5 mm Locking Cortical or Hexalobe Screw (COL-3XXX or 30-XXXX) into the remaining distal locking hole. Remove the Ulnar Shortening Reduction Peg (80-0422). Measure and replace with a 3.5 mm Cortical or Nonlocking Hexalobe Screw (CO-3XXX or 30-XXXX). Drill, measure and insert a 3.5 mm locking cortical or hexalobe screw in the remaining proximal locking hole.
## Ordering Information

**Tray Components**

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<tr>
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**Instrumentation**

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<td>80-0418</td>
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<td>3</td>
<td>Ulnar Shortening Guide, Right</td>
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<td>4</td>
<td>Ulnar Shortening Guide Locking Bolt</td>
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<td>5</td>
<td>Ulnar Shortening Guide Bottom Plate</td>
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<td>.054&quot; x 6&quot; Guide Wire</td>
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<td>9</td>
<td>2.8 mm Quick Release Drill</td>
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**Sterile Components**

**Osteotomy Saw Blades**

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<td>Osteotomy Saw Blade Hub Style S*</td>
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<td>Osteotomy Saw Blade Hub Style DS*</td>
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**Additional Components**

**Instrumentation**

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<td>T15 Stick-Fit Hexalobe Driver</td>
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<td>Plate Tack</td>
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<tr>
<td>3.5 mm x 5&quot; Quick Release Drill</td>
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<td>2.8 mm Hexalobe Locking Drill Guide 6–65 mm</td>
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**Tray**

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*Optional

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**Note:** The Acumed® Osteotomy System can be used with the following Acumed systems to access additional instrumentation not included in this tray: Clavicle Plating System, Elbow Plating System, and Acu-Loc® 2 System.

To learn more about the full line of Acumed innovative surgical solutions or order additional systems, please contact your local Acumed sales representative, call 888.627.9957, or visit [www.acumed.net](http://www.acumed.net).
# Ordering Information

## Screws

### 3.5 mm Locking Cortical Screws

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<th>Screw Description</th>
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<td>3.5 mm x 10 mm Locking Cortical Screw</td>
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<td>3.5 mm x 12 mm Locking Cortical Screw</td>
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<td>3.5 mm x 14 mm Locking Cortical Screw</td>
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### 3.5 mm Cortical Screws

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<td>3.5 mm x 16 mm Cortical Screw</td>
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### 3.5 mm Locking Hexalobe Screws

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### 3.5 mm Nonlocking Hexalobe Screws

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<td>3.5 mm x 20 mm Nonlocking Hexalobe Screw</td>
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