



Headless Compression PT Screw System

Surgical Technique



# Headless Compression PT Screw System



## 2.5 and 3.0 mm Headless Compression PT Screws

The 2.5 mm and 3.0 mm titanium Headless Compression PT Screws can be used for fixation of osteotomies, fusion or fracture fixation in the foot/ankle, hand/wrist and elbow.

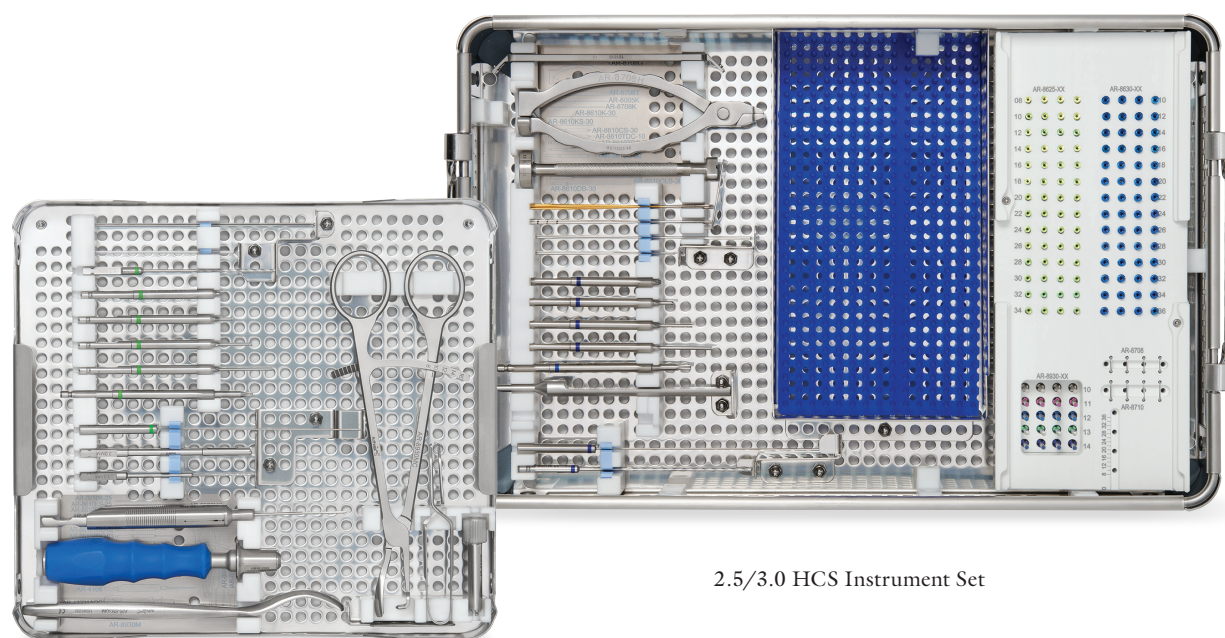
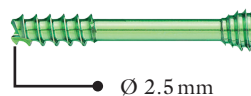
The screws provide compression due to different thread pitches at the head of the screw and at the distal thread of the screw.

A hexalobe recess provides improved torque transmission and allows for simplified insertion.

The 2.5 mm and 3.0 mm Headless Compression PT Screw System (AR-8610S-01) also includes the 2.0 mm snap-off QuickFix™ screws for Weil osteotomies to serve as a complete solution for the forefoot.

### Features of 2.5 and 3.0 mm Headless Compression PT Screws:

- Headless design
- Self-drilling and self-tapping
- Hexalobe drive (2.5 mm = T7; 3.0 mm = T8)
- Cannulated
- Titanium
- Color coded instruments
- Short and long guidewires (80 mm or 120 mm) available
- Distal thread lengths =  $\frac{1}{3}$  of overall screw length
- Lengths of 2.5 mm screws: 8-34 mm
- Lengths of 3.0 mm screws: 10-36 mm



2.5/3.0 HCS Instrument Set

## Chevron Osteotomy using the 3.0 mm Headless Compression PT Screw



1

Fix the osteotomy with a 1 mm Guidewire. There are two Guidewire lengths available, 80 mm and 120 mm.



2

Measure the screw length with the appropriately sized measuring device over the Guidewire. In this example, the recommended screw length is 24 mm.



3

Use the 2.0 mm straight Cannulated Drill Bit to drill the entire length of screw path. Countersink to appropriate depth as indicated by notches. Optional Step Drill may be used.



4

Choose appropriate screw length and insert the Headless Compression PT Screw with the Hexalobe T8 Screwdriver.



5

Advance the screw into the bone, until the head is flush with the bone and compression is achieved.



6

Remove the Guidewire. Repair is complete.



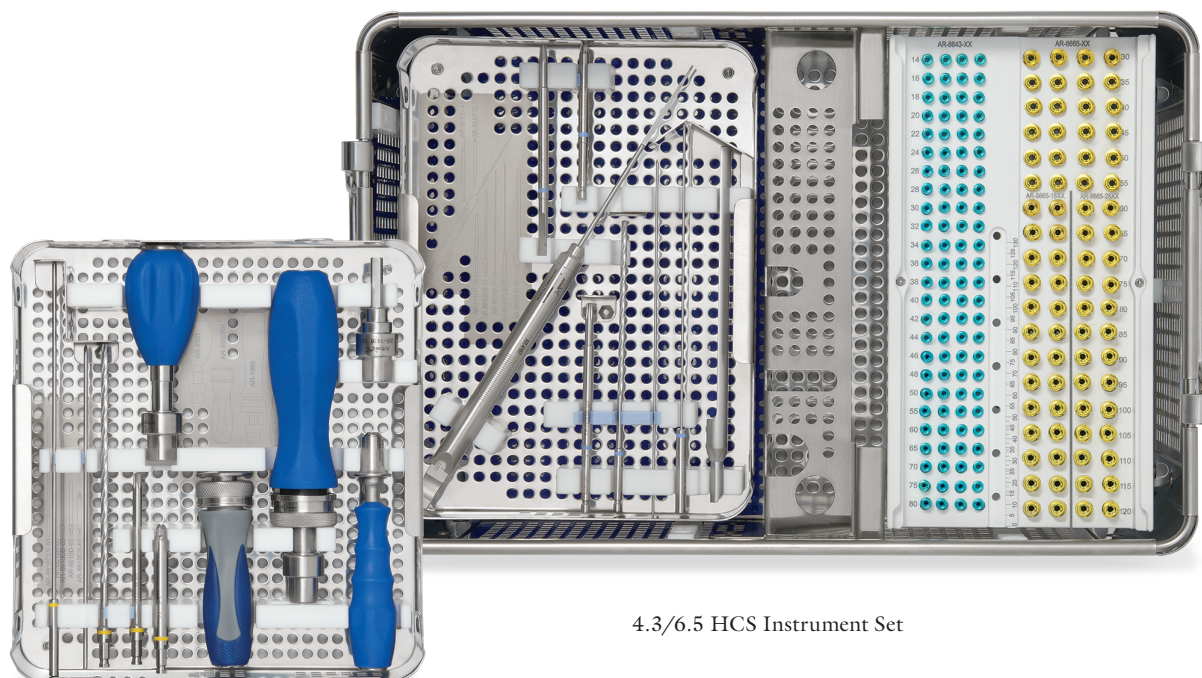
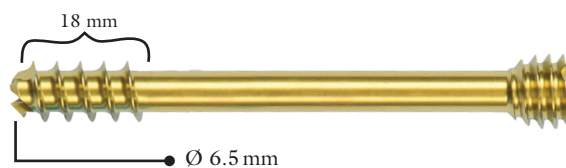
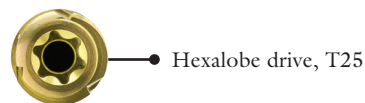
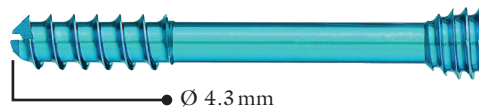
## 4.3 and 6.5 mm Headless Compression PT Screws

The 4.3 mm and 6.5 mm titanium Headless Compression PT Screws can be used for the fixation of osteotomies, fusions or fracture fixation in the mid and hindfoot.

The headless design reduces the risk of profile complications, provides compression and allows for simplified insertion.

### Features of 4.3 and 6.5 mm Headless Compression PT Screws:

- Headless design
- Self-drilling and self-tapping
- Hexalobe drive (4.3 mm = T15; 6.5 mm = T25)
- Cannulated
- Titanium
- Color coded instruments
- Guidewires: 1.35 mm x 170 mm (4.3 mm screws)  
2.4 mm x 170 mm (6.5 mm screws)
- 4.3 mm screws: distal thread length =  $\frac{1}{3}$  of overall screw length
- Lengths of 4.3 mm screws: 14-50 mm (x2)  
55-80 mm (x5)
- Lengths of 6.5 mm screws: 30-120 mm (x5) (18 mm short thread)  
60-120 mm (x5) (28 mm long thread)



4.3/6.5 HCS Instrument Set

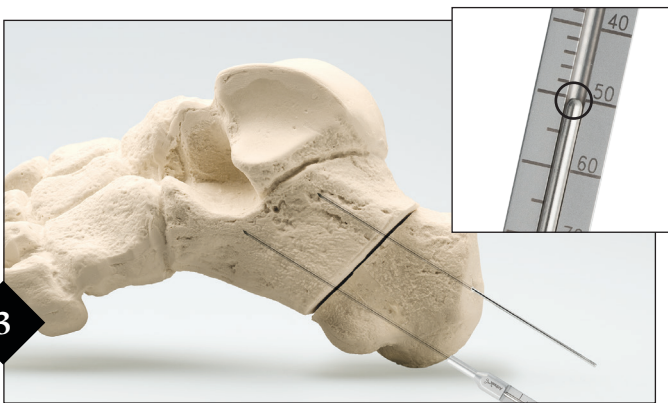
## Medializing Calcaneal Osteotomy (MCO) Technique using the 6.5 mm Headless Compression PT Screw



Cut the calcaneus 2 cm from the posterior edge. Translate fragment 1 cm medially.



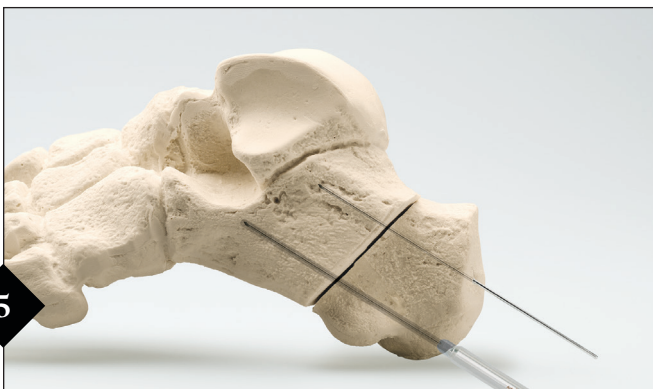
Maintain the correction with two 2.4 mm Guidewires at the desired location of the screws.



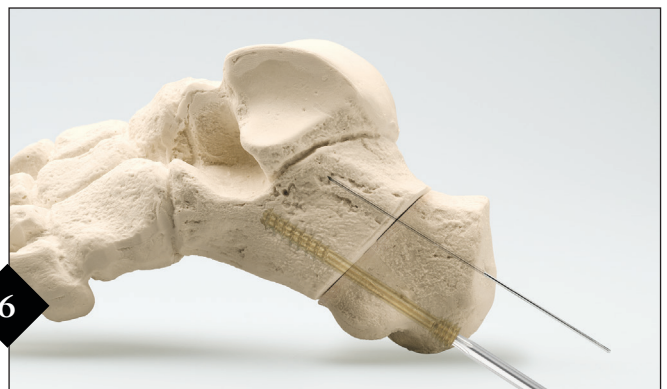
Measure Guidewire depth with the Depth Gauge line to line.



Drill with the 4.3 mm drill past the osteotomy site over the Guidewire.



Countersink over the Guidewire to proper depth.



Insert first 6.5 mm Headless Compression PT Screw by using the T25 Hexalobe Screwdriver. Screws may be inserted by hand or power. Final tightening should be done by hand.



Repeat the steps for the second 6.5 mm Headless Compression PT Screw insertion. Repair is complete.

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# Ordering Information

## Headless Compression PT Screw System 2.5 and 3.0 mm (AR-8610S-01) includes:

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### Instruments for 2.5 mm Headless Compression Screws:

|  |                |
|--|----------------|
| Drill Bit, cannulated, 1.7 mm (single use) | AR-8610DB-25C  |
| Countersink                                | AR-8610CS-25   |
| Step Drill, 10 mm (single use)             | AR-8610TDC-01C |
| Step Drill, 20 mm (single use)             | AR-8610TDC-02C |
| Step Drill, 30 mm (single use)             | AR-8610TDC-03C |
| Driver Shaft, T7 hexalobe, cannulated      | AR-8610D-25    |
| Cleaning Stylet                            | AR-8610CLS-25  |
| Guidewire, 0.86 mm x 120 mm (single use)   | AR-8610K-25    |
| Guidewire, 0.86 mm x 80 mm (single use)    | AR-8910KS-25   |
| Drill Guide, 0.86/1.7 mm                   | AR-8737-03     |

### Instruments for 3.0 mm Headless Compression PT Screws:

|  |                |
|--|----------------|
| Drill Bit, cannulated, 2.0 mm (single use) | AR-8610DB-30C  |
| Countersink                                | AR-8610CS-30   |
| Step Drill, 10 mm (single use)             | AR-8610TDC-10C |
| Step Drill, 20 mm (single use)             | AR-8610TDC-20C |
| Step Drill, 30 mm (single use)             | AR-8610TDC-30C |
| Driver Shaft, T8 hexalobe, cannulated      | AR-8610D-30    |
| Cleaning Stylet                            | AR-8610CLS-30  |
| Guidewire, 1.0 mm x 120 mm (single use)    | AR-8610K-30    |
| Guidewire, 1.0 mm x 80 mm (single use)     | AR-8610KS-30   |

### Common Instruments:

|  |                |
|--|----------------|
| Cannulated Driver Handle w/AO connection (optional: AR-8950RH) | AR-13221AOC    |
| McGlamry Metatarsal Elevator                                   | AR-8930M       |
| Screw Holding Forceps, self-retaining                          | AR-8941F       |
| Depth Gauge, small   | AR-4166        |
| HCS 2.5 and 3.0 mm Instrument Case                             | AR-8610C-01    |
| HCS 2.5 and 3.0 mm Screw Caddy (included in AR-8610C-01)       | AR-8610C-01-SC |
| Depth Guide, for 2.5 mm and 3.0 mm HCS                         | AR-8610DG-01   |
| Depth Guide, short, for 2.5 mm and 3.0 mm HCS                  | AR-8610DG-03   |

### Implants:

|   |                 |
|---|-----------------|
| Headless Compression Screws, 2.5 mm x 8 – 34 mm<br>(2 mm increments)  | AR-8625-08 – 34 |
| Headless Compression Screws, 3.0 mm x 10 – 36 mm<br>(2 mm increments) | AR-8630-10 – 36 |

## 2.0 QuickFix™ Screws (included in AR-8610S-01) includes:

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### Instruments for 2.0 mm QuickFix Screws:

|   |             |
|---|-------------|
| 2.0 mm Driver Shaft for QuickFix Screw System | AR-8930D    |
| 1.3 mm Drill Bit for 2.0 mm QuickFix          | AR-8930D-13 |
| Cutter, QuickFix Screw, 2 mm                  | AR-8930R    |
| QuickFix Clamp                                | AR-8930MC   |
| Drill Guide, 1.5 mm                           | AR-8933G    |

### Implants:

|                                      |                 |
|--------------------------------------|-----------------|
| QuickFix Screws, 2.0 mm x 10 – 14 mm | AR-8930-10 – 14 |
|--------------------------------------|-----------------|

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## Ordering Information

### Headless Compression PT Screw System 4.3 and 6.5 mm (AR-8610S-02) includes:

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#### Instruments for 4.3 mm Headless Compression Screws:

|  |               |
|--|---------------|
| Guidewire, 1.35 mm x 170 mm (single use)       | AR-8610K-43   |
| Drill Bit, cannulated, 3.0 mm (single use)     | AR-8610DB-43C |
| Countersink                                    | AR-8610CS-43  |
| Driver Shaft, T15 hexalobe, cannulated         | AR-8610D-43   |
| Cleaning Stylet                                | AR-8610CLS-43 |
| Cannulated Driver Handle w/AO connection       | AR-13221AOC   |
| Handle, quick coupling, ratcheting, cannulated | AR-8950RH     |

#### Instruments for 6.5 mm Headless Compression PT Screws:

|  |               |
|--|---------------|
| Guidewire, 2.4 mm x 170 mm (single use)    | AR-8610K-65   |
| Drill Bit, cannulated, 4.3 mm (single use) | AR-8610DB-65C |
| Countersink                                | AR-8610CS-65  |
| Driver Shaft, T25 hexalobe, cannulated     | AR-8610D-65   |
| Cleaning Stylet                            | AR-8610CLS-65 |
| Ratcheting Screwdriver Handle              | AR-1999       |
| Tear Drop Handle                           | AR-2001       |
| Hudson Adapter                             | AR-1416       |

#### Common Instruments:

|  |               |
|--|---------------|
| Depth Guide for 4.3 mm and 6.5 mm HCS                    | AR-8610DG-02  |
| Depth Device, large, hook tip                            | AR-4167       |
| Drill Guide, 3.0/4.5 mm                                  | AR-8970-02    |
| HCS 4.3 and 6.5 mm Instrument Case                       | AR-8610C-02   |
| HCS 4.3 and 6.5 mm Screw Caddy (included in AR-8610C-02) | AR-8610-02-SC |

#### Implants:

|   |                      |
|---|----------------------|
| Headless Compression Screw, 4.3 mm x 14 – 50 mm<br>(2 mm increments)                        | AR-8643-14 – 50      |
| Headless Compression Screw, 4.3 mm x 55 – 80 mm<br>(5 mm increments)                        | AR-8643-55 – 80      |
| Headless Compression Screw, 6.5 mm x 30 – 120 mm<br>(18 mm short thread in 5 mm increments) | AR-8665-1830 – 18120 |
| Headless Compression Screw, 6.5 mm x 60 – 120 mm<br>(28 mm long thread in 5 mm increments)  | AR-8665-2860 – 28120 |

*This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's Directions For Use.*

