

COMPREHENSIVE LOW-PROFILE CALCANEAL FIXATION SYSTEM

# CoLink<sup>®</sup> Cfx

Minimally Invasive Fracture and Osteotomy Plates

Sinus Tarsi Surgical Technique



MIS Plates



MIS Extended Plates

Plates and Screws OR Ready, Delivered Sterile

- Anatomic Design
- Type II Anodized



A GLOBAL EXTREMITY COMPANY

# CoLink® Cfx

CALCANEAL FIXATION SYSTEM

## System Overview

The **CoLink® Calcaneal Fixation System** is a collection of plates and screws targeted at orthopaedic indications of the calcaneus. The system has four plate families to address traumatic fractures and osteotomies of the calcaneus. The system consists of MIS, MIS Extended, Perimeter fracture, and Z-Plasty® Osteotomy plates in various sizes to account for anatomical variations. Associated cortical

screws are 3.5mm locking and non-locking, and 4.0mm cancellous non-locking screws.

All implants are provided sterile packaged. This system utilizes a set of reusable instruments, inclusive of plate trials, for proper size determination prior to selecting the plate. The system also uses a set of single-use, sterile wires and drills to assist with implant placement.

## CoLink® Cfx MIS Plates



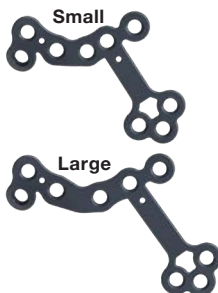
### MIS Plates

- Guided system for sinus tarsi approach
- Low-profile, left and right specific plates
- Small and large sizes

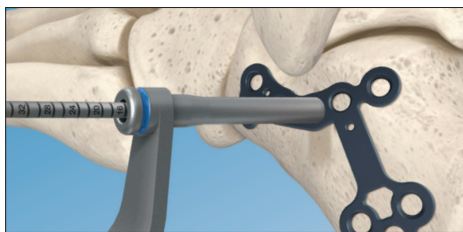


### MIS Extended Plates

- Guided system for sinus tarsi approach
- Extended lateral calcaneal support
- Low-profile, left and right specific plates
- Small and large sizes

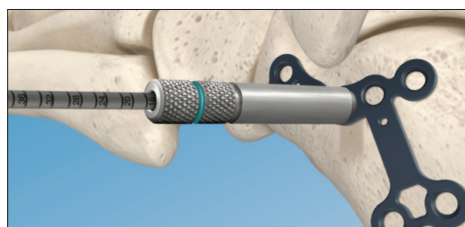


## CoLink® Cfx Drill Guides and Screw Sizing Options



### Double-ended Non-locking Guide

- Use the blue end for non-locking, off-axis, 3.5mm cortical and 4.0mm cancellous screws.
- Depth measurement with Drill laser markings or via Standard Depth Gauge



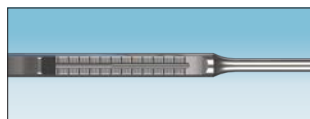
### Locking Drill Guide

- For on-axis 3.5mm locking screws
- Depth measurement with Drill laser markings or via Standard Depth Gauge

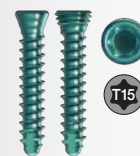


### Depth Gauge Screw Sizing


- Place the nose of the Depth Gauge into the screw hole. Hook the far cortex with the probe. Read the measurement on the Depth Gauge body for bi-cortical screw length.

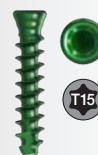


## CoLink® Cfx Screws




### 3.5mm Locking & Non-Locking Screws

- Drill Guides = **Light Blue band** 
- Depth measurement with Drill Laser Markings or via standard Depth Gauge.



### 4.0mm Cancellous Screw

- Drill Guides = **Light Blue band** 
- Depth measurement with Drill Laser Markings or via standard Depth Gauge.

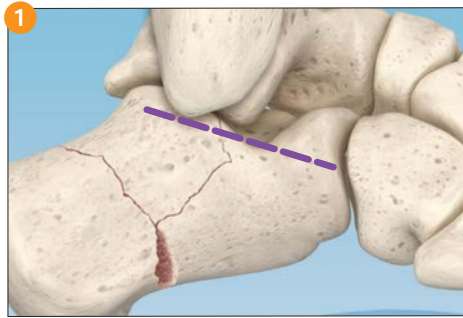
**NOTE:** Non-locking screws may be placed up to 15 degrees in any direction off the center axis of the screw hole.

### Calibrated Drill Screw Sizing

Determine the screw length from the calibrated markings on the Drill relative to the top the Drill Guide.



# CoLink Cfx™ Sinus Tarsi Surgical Technique - MIS / MIS Extended Plates



## Approach and Incision

1 Initiate an Ollier's type incision posterior-distal to the distal tip of the fibula extending distally towards the 4th metatarsal (3-5cm). The incision should cross the anterior process of the calcaneus superior to the peroneal tendons.

**Note:** Take precautions to protect the sural nerve throughout the procedure. Inspect the peroneal tendons and repair if needed.

## Alignment and Provisional Fixation

Utilizing K-Wires and the supplied Schanz Pin, reduce the fracture and provisionally fix in place while ensuring the wire and pin positions do not interfere with plate positioning 2.

**Note:** Use the appropriate K-Wires from the corresponding set when placing cannulated screws.

## Trialing

3 Determine the appropriate plate with the supplied plate trials and select the corresponding sterile implant package.

**Note:** It is recommended to place the plate trial over the skin of the lateral calcaneus and confirm the size with the use of fluoroscopy prior to final plate size selection.

## Plate Insertion

Assemble the Locking Drill Guides into superior-central screw holes

A 4 Insert the plate through the incision and position in the desired location confirming placement under fluoroscopy.

**Note:** Should additional dissection be needed, the 7.25" Periosteal Elevator or 3/8" Cobb Elevator may be used to separate soft tissue from the lateral aspect of the calcaneus.

If contouring is required, remove the plate from the incision and contour with the supplied Plate Benders or CoLink Cfx Threaded Bending Bars; take care not to bend across a plate hole.

## Preparation and Implantation

5 Slide the appropriately sized MIS Extended Plate Marking Guide over the locking drill guides ensuring orientation and side are correct 6. Provisionally fix the plate to the bone with Olive Wires. Mark the hole locations with a skin marker or K-Wire as indicated B.

**Note:** Pin holes may be used to check plate placement to the borders of the subtalar and calcaneocuboid joints.

Prepare the first screw through one of the Locking Drill Guides using the calibrated Drill.

Drill to the desired depth and determine screw length; remove the Drill Guide 7.

Select the appropriate screw package based on the indicated length, screw type, and size preference. Seat the screw to the plate with the T15 AO Driver.

While repeating the process, prepare the second screw through the remaining Locking Drill Guide and assemble to the plate; remove the Olive Wires.

Drill for the remaining screws as permitted by the existing sinus tarsi incision using the double-ended Non-Locking Drill Guide and calibrated Drill; size and fill as appropriate.

**Note:** In order to protect surrounding tissue, screw hole preparation without a drill guide is not recommended.

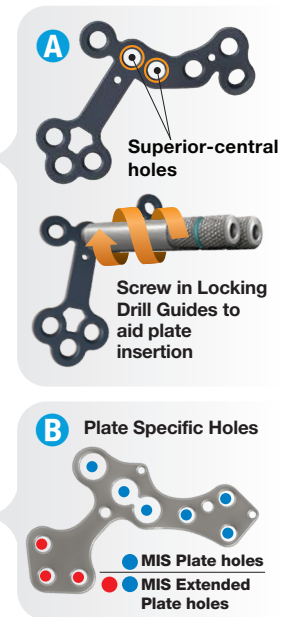
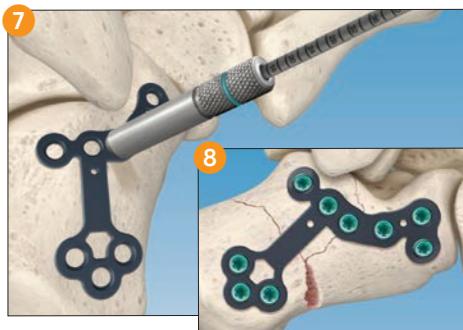
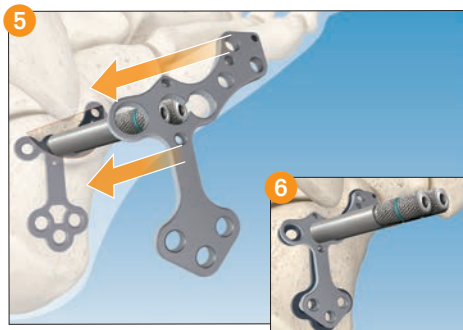
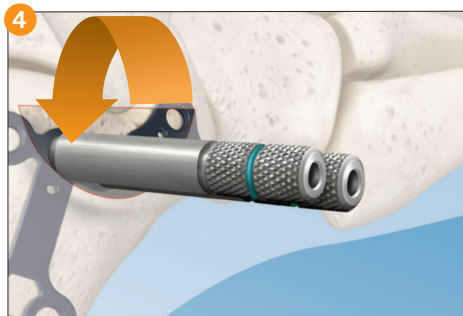
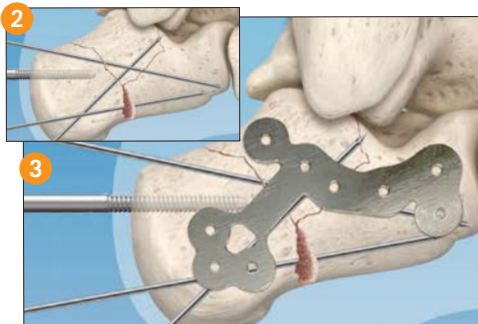
Create stab incisions to gain access to the remaining holes as indicated by the previously marked locations; a single straight incision may be preferable to gain access to the posterior holes on the MIS Extended Plate.

Using the double-ended Drill Guide, prepare, size, and fill each of the remaining holes 8.

Confirm final implant placement with the use of fluoroscopy and close by preferred methods.

## Removal

For removal, use the supplied CoLink Calcaneal Fixation System instrument set to remove the plate screws followed by removal of the plate from the bone.





COMPREHENSIVE LOW-PROFILE CALCANEAL FIXATION SYSTEM

# CoLink® Cfx

All Sterile, Minimally Invasive Fracture /Osteotomy Plating

	CoLink® Cfx Calcaneal Plates
	CATALOG NO DESCRIPTION
MIS S	P80 ST111 ..... MIS Plate, Small, <b>Right</b>
MIS L	P80 ST211 ..... MIS Plate, Small, <b>Left</b>
	P80 ST112 ..... MIS Plate, Large, <b>Right</b>
	P80 ST212 ..... MIS Plate, Large, <b>Left</b>
MIS EXT S	P80 ST121 ..... MIS Plate, Ext, Small, <b>Right</b>
MIS EXT L	P80 ST221 ..... MIS Plate, Ext, Small, <b>Left</b>
	P80 ST122 ..... MIS Plate, Ext, Large, <b>Right</b>
	P80 ST222 ..... MIS Plate, Ext, Large, <b>Left</b>
SMALL	P80 ST131 ..... Perimeter Plate, Small, <b>Right</b>
MEDIUM	P80 ST231 ..... Perimeter Plate, Small, <b>Left</b>
	P80 ST132 ..... Perimeter Plate, Medium, <b>Right</b>
	P80 ST232 ..... Perimeter Plate, Medium, <b>Left</b>
LARGE	P80 ST133 ..... Perimeter Plate, Large, <b>Right</b>
	P80 ST233 ..... Perimeter Plate, Large, <b>Left</b>
	P80 ST141 ..... Z-Plasty Plate, <b>Right</b>
	P80 ST241 ..... Z-Plasty Plate, <b>Left</b>

## CoLink® Cfx Instruments

### Single-Use, Sterile Kit - P08 S0001

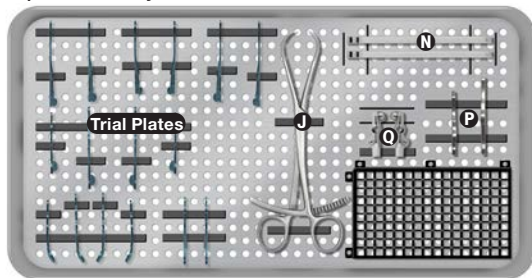


- 2 - Guide Wire, Single Trocar, 0.06 X 6"
- 1 - 2.5 X 60mm Drill
- 2 - Olive Wire 0.045 X 2.5"
- 1 - Lag Drill, 3.5mm

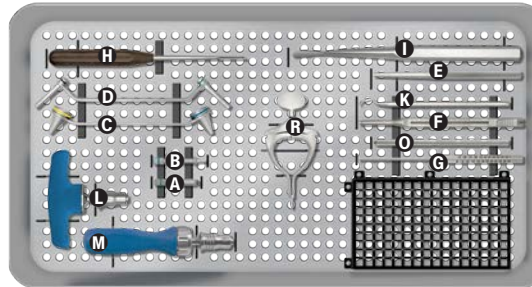
### In separate, single-use sterile packs:

- P04 S0221 .... Olive Wire - 0.045 X 2.5", 2 Pack, Sterile
- P06 S2333 .... Guide Wire - Single Trocar, 0.06 X 6", 2 Pack, Sterile
- P07 S0041 .... T15 Driver, AO, Sterile
- P08 S0051 .... Schanz Pin - threaded, 5 X 175mm, Sterile

### Top Reusable Tray



### Bottom Reusable Tray



## CoLink® Cfx 3.5mm Low-Pro Cortical Screws

CATALOG NO	DIA x LENGTH	STYLE
P73 ST010	3.5 x 10mm	Non-Locking
P73 ST012	3.5 x 12mm	Non-Locking
P73 ST014	3.5 x 14mm	Non-Locking
P73 ST016	3.5 x 16mm	Non-Locking
P73 ST018	3.5 x 18mm	Non-Locking
P73 ST020	3.5 x 20mm	Non-Locking
P73 ST022	3.5 x 22mm	Non-Locking
P73 ST024	3.5 x 24mm	Non-Locking
P73 ST026	3.5 x 26mm	Non-Locking
P73 ST028	3.5 x 28mm	Non-Locking
P73 ST030	3.5 x 30mm	Non-Locking
P73 ST032	3.5 x 32mm	Non-Locking
P73 ST034	3.5 x 34mm	Non-Locking
P73 ST036	3.5 x 36mm	Non-Locking
P73 ST038	3.5 x 38mm	Non-Locking
P73 ST040	3.5 x 40mm	Non-Locking
P73 ST042	3.5 x 42.5mm	Non-Locking
P73 ST045	3.5 x 45mm	Non-Locking
P73 ST047	3.5 x 47.5mm	Non-Locking
P73 ST050	3.5 x 50mm	Non-Locking
P73 ST052	3.5 x 52.5mm	Non-Locking
P73 ST055	3.5 x 55mm	Non-Locking
P73 ST057	3.5 x 57.5mm	Non-Locking
P73 ST060	3.5 x 60mm	Non-Locking

## CoLink® Cfx 3.5mm Locking Screws

CATALOG NO	DIA x LENGTH	STYLE
P73 ST110	3.5 x 10mm	Locking
P73 ST112	3.5 x 12mm	Locking
P73 ST114	3.5 x 14mm	Locking
P73 ST116	3.5 x 16mm	Locking
P73 ST118	3.5 x 18mm	Locking
P73 ST120	3.5 x 20mm	Locking
P73 ST122	3.5 x 22mm	Locking
P73 ST124	3.5 x 24mm	Locking
P73 ST126	3.5 x 26mm	Locking
P73 ST128	3.5 x 28mm	Locking
P73 ST130	3.5 x 30mm	Locking
P73 ST132	3.5 x 32mm	Locking

## CoLink® Cfx 3.5mm Locking Screws - cont.

P73 ST134	3.5 x 34mm	Locking
P73 ST136	3.5 x 36mm	Locking
P73 ST138	3.5 x 38mm	Locking
P73 ST140	3.5 x 40mm	Locking
P73 ST142	3.5 x 42.5mm	Locking
P73 ST145	3.5 x 45mm	Locking
P73 ST147	3.5 x 47.5mm	Locking
P73 ST150	3.5 x 50mm	Locking
P73 ST152	3.5 x 52.5mm	Locking
P73 ST155	3.5 x 55mm	Locking
P73 ST157	3.5 x 57.5mm	Locking
P73 ST160	3.5 x 60mm	Locking

## CoLink® Cfx 4.0mm Cancellous Screws

P74 ST010	4.0 x 10mm	Cancellous
P74 ST012	4.0 x 12mm	Cancellous
P74 ST014	4.0 x 14mm	Cancellous
P74 ST016	4.0 x 16mm	Cancellous
P74 ST018	4.0 x 18mm	Cancellous
P74 ST020	4.0 x 20mm	Cancellous
P74 ST022	4.0 x 22mm	Cancellous
P74 ST024	4.0 x 24mm	Cancellous
P74 ST026	4.0 x 26mm	Cancellous
P74 ST028	4.0 x 28mm	Cancellous
P74 ST030	4.0 x 30mm	Cancellous
P74 ST032	4.0 x 32mm	Cancellous
P74 ST034	4.0 x 34mm	Cancellous
P74 ST036	4.0 x 36mm	Cancellous
P74 ST038	4.0 x 38mm	Cancellous
P74 ST040	4.0 x 40mm	Cancellous
P74 ST042	4.0 x 42.5mm	Cancellous
P74 ST045	4.0 x 45mm	Cancellous
P74 ST047	4.0 x 47.5mm	Cancellous
P74 ST050	4.0 x 50mm	Cancellous
P74 ST052	4.0 x 52.5mm	Cancellous
P74 ST055	4.0 x 55mm	Cancellous
P74 ST057	4.0 x 57.5mm	Cancellous
P74 ST060	4.0 x 60mm	Cancellous

## Reusable Tray Components

- A** P08 N0081 ..... Locking Drill Guide, 2.5mm
- B** P07 N0231 ..... Lag Guide, 2.5mm
- C** P07 N0291 ..... VA NL Drill Guide, 1.9 & 2.5mm
- D** P07 N0151 ..... NL Drill Guide, 2.5 & 3.5mm
- E** P08 N0091 ..... Bone Tamp, 5mm X 6"
- F** P07 N0251 ..... Easy Clean Depth Gauge
- G** P06 N0661 ..... Lag Screw Sizer, 6"
- H** P07 N0261 ..... Periosteal Elevator, 7.25" 6mm Straight Blade
- I** P08 N0021 ..... Cobb Elevator, 3/8"
- J** P08 N0011 ..... 8" Reduction Bone Forceps
- K** P07 N0221 ..... Dental Pick
- L** P08 N0041 ..... T-Handle, AO, QC
- M** P04 N0063 ..... Ratcheting Handle, AO QC
- N** P07 N0121 ..... Plate Bender
- O** P08 N0031 ..... Threaded Bending Bar
- P** P08 N0071/2 .... MIS Extended Marking Guide; Sm/Lg
- Q** P08 N0061/2 .... Cfx Z-Plasty Cutting Guides; L/R
- R** P08 N0101 ..... Z-Plasty Spreader

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