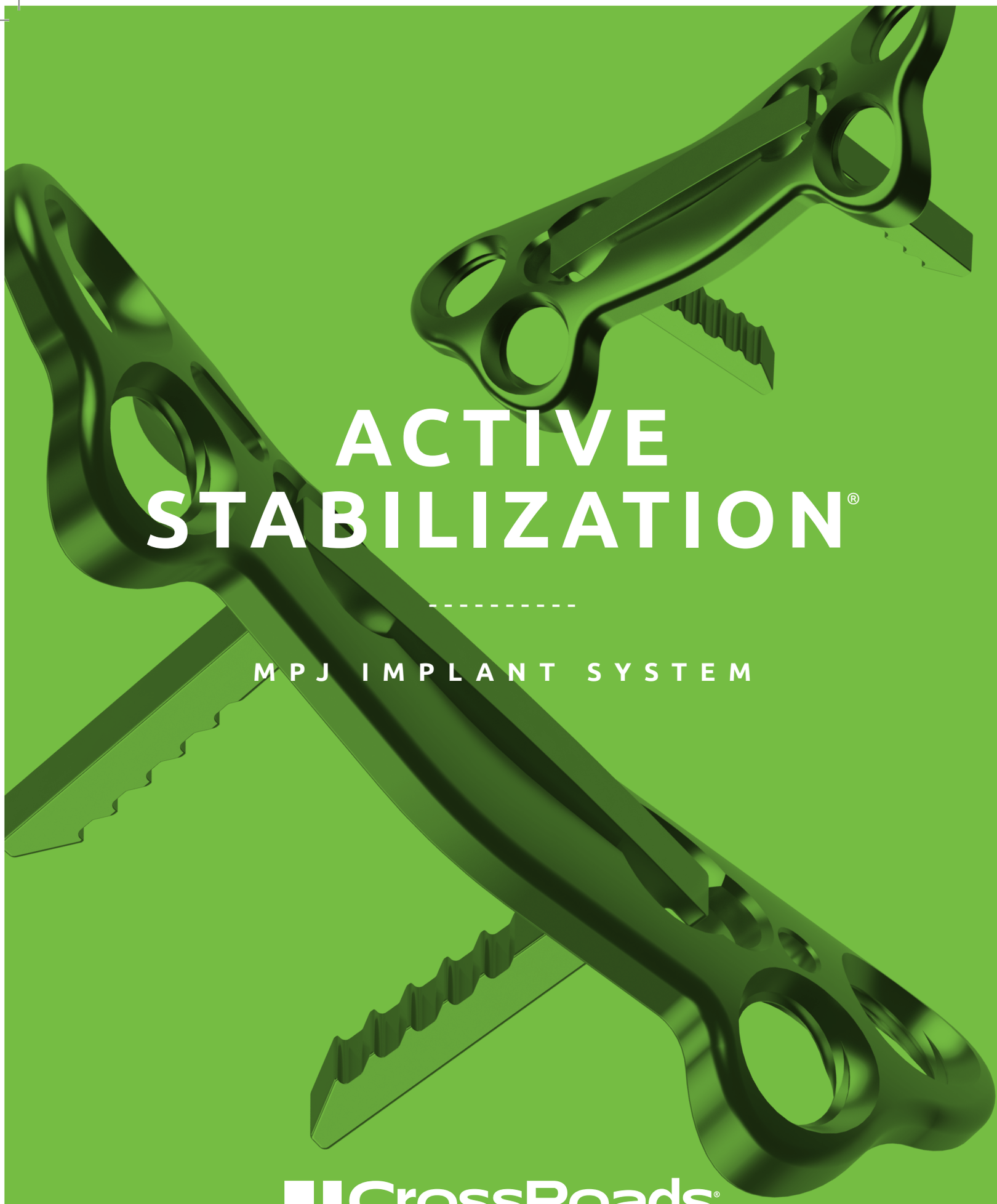


ACTIVE STABILIZATION®

MPJ IMPLANT SYSTEM

CrossRoads®
Extremity Systems

OVERVIEW

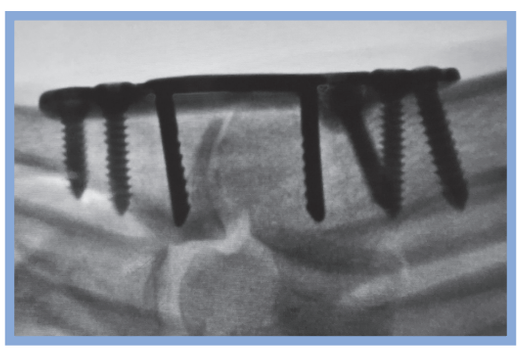
ACTIVE STABILIZATION®

The Active Stabilization® System is the only hybrid plating system to replace static compression with dynamic continuous compression. It is designed to address a full spectrum of foot & ankle procedures.

Bending & Rotational Stability + **Continuous Compression** = **Active Stabilization®**

PRODUCT FEATURES

- Two distinct plate options
- Low profile anatomic plate design
- Ability to reposition intraoperatively
- Active gap recovery
- 3x more effective at maintaining compression than a traditional plate and cross screw*
- Sterile Instrumentation with EcoSMART® Service



*data on file

TESTING DATA

GAP RECOVERY

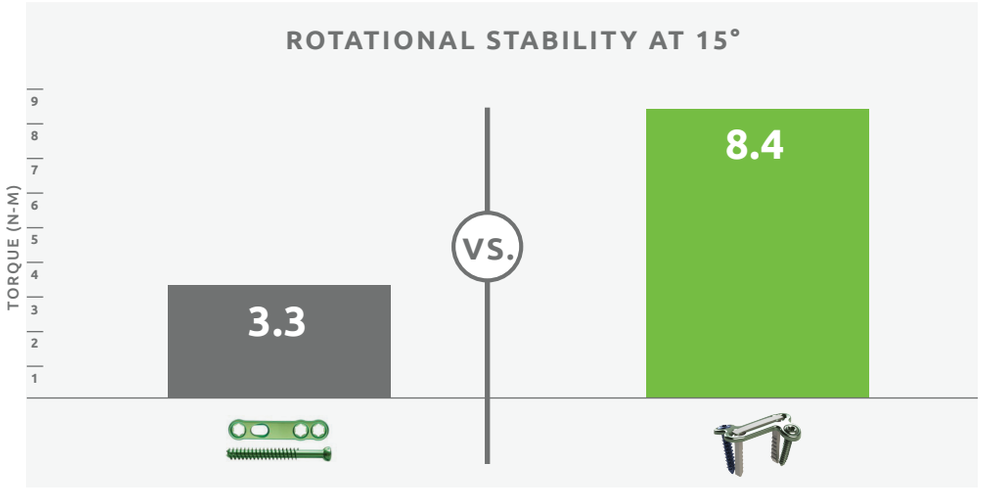
The Active Stabilization® system presented full gap recovery, while the plate with no clip did not recover fully.

- GAP AFTER LOADING WITH NO CLIP
- GAP AFTER LOADING WITH CLIP

ROTATIONAL STABILITY

The Active Stabilization® system has higher rotational stability compared to a plate and cross screw.

- COMPETITIVE PLATE + CROSS SCREW
- Z-PLATE + CLIP

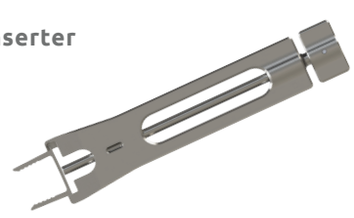


INSTRUMENTATION

The Active Stabilization® MPJ Implant system comes with sterile packed stainless steel instrumentation. Inserters are pre-loaded with implants for each surgery. Cup and Cone Reamers are available upon request. Reamers come paired in sterile packs and include a cup and cone for each size. The sizes range from 14mm – 24mm (2mm increments). Use of the reamers requires .062"/1.6mm k-wires.*

**k-wires are not included in MPJ instrument kit*

Inserter



Drill Guide

Cup Reamer

Cone Reamer

SPECIFICATIONS

MPJ PLATE

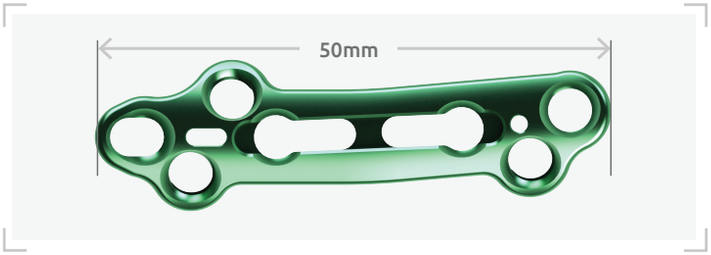
Standard & Short Plate

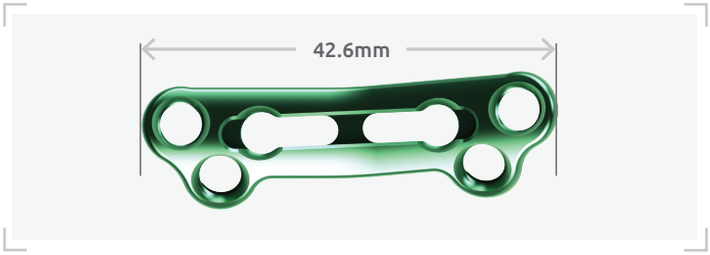
STANDARD PLATES

PART NUMBER	CLIP SIZE	SLOT LENGTH	OVERALL LENGTH	THICKNESS	VALGUS ANGLE	DORSAL ANGLE	RIGHT/LEFT
7L50-0018	18mm	18mm	50mm	1.5mm	5°	0°	Right
7R50-0018	18mm	18mm	50mm	1.5mm	5°	0°	Left
7L50-5018	18mm	18mm	50mm	1.5mm	5°	5°	Right
7R50-5018	18mm	18mm	50mm	1.5mm	5°	5°	Left
7L50-1018	18mm	18mm	50mm	1.5mm	5°	10°	Right
7R50-1018	18mm	18mm	50mm	1.5mm	5°	10°	Left

SHORT PLATES

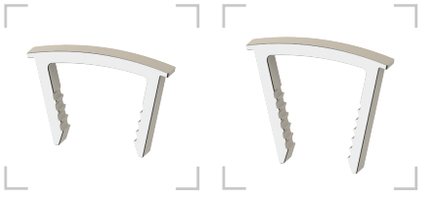
7150-0018	18mm	18mm	42.6mm	1.5mm	5°	0°	Universal
7150-5018	18mm	18mm	42.6mm	1.5mm	5°	5°	Universal
7150-1018	18mm	18mm	42.6mm	1.5mm	5°	10°	Universal





Note: Clip slot holes are not threaded

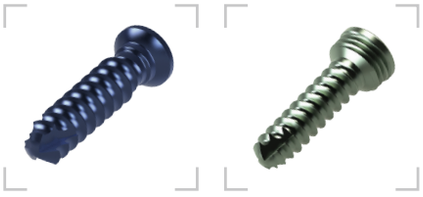
CLIPS



	18 x 14 x 14	18 x 18 x 18
INTERAXIS LENGTH	18mm	18mm
LEG LENGTH	14mm	18mm
REAMER SIZE	3.2mm	3.2mm
MAX CLIP THICKNESS	2.7mm	2.7mm
LEG WIDTH	1.8mm	1.8mm
CATALOG	7118-1414KT	7118-1818KT

SCREWS

Non-locking & locking



	NON-LOCKING	LOCKING
SIZE RANGE	8-30mm*	8-30mm*
SIZE OPTION	3.0 & 3.5mm	3.0 & 3.5mm

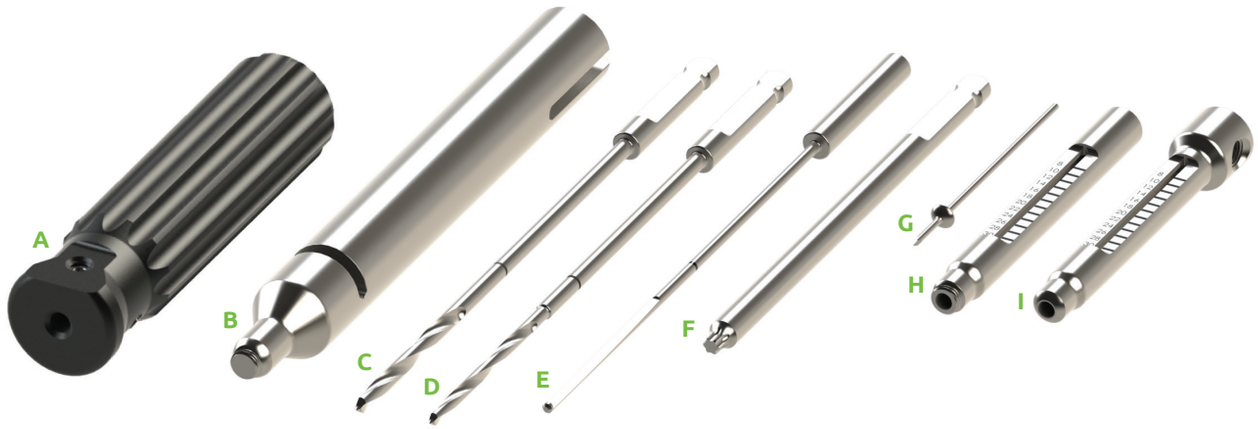
**2mm increments*

INSTRUMENTATION

INSTRUMENTS INCLUDED IN EACH KIT

Instrumentation is packaged in sterile kits for efficiency and convenience. After surgery, the instrumentation is returned to CrossRoads® via the EcoSMART® Instrument Recovery Service providing a significant cost savings over typical disposable or reusable instrument kits.

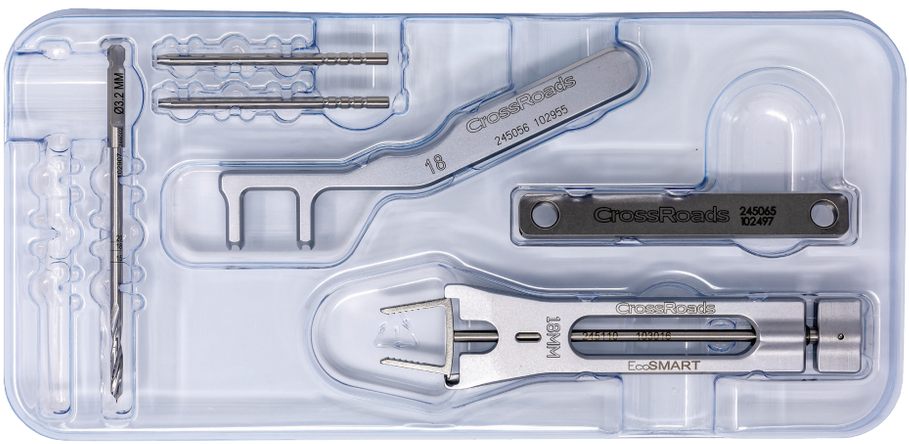
A	Driver Handle	F	Driver Bits (2)
B	Plate Bender (2)	G	Fixation Pins (2)
C	2.5mm Reamer	H	Locking Drill Guide (2)
D	2.0mm Reamer	I	Non-Locking Drill Guide
E	Depth Gauge Probe		



LOANER KITS

CLIPS

- 1 each, (18x18x18 Kit)
- 1 each, (18x14x14 Kit)
- 2 each Single Pack, (18x18x18,18x14x14)



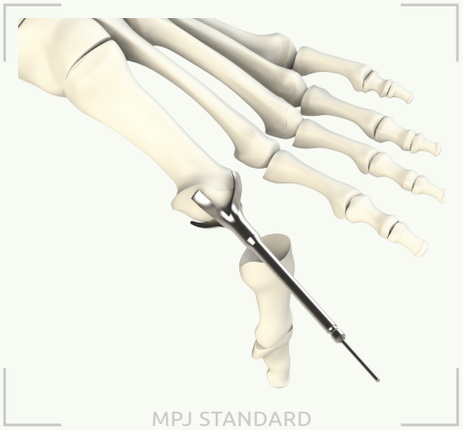
PLATES

- MPJ Standard, 2 each, 0° (left & right)
- MPJ Standard, 2 each, 5° (left & right)
- MPJ Standard, 1 each, 10° (left & right)
- MPJ Short, 2 each, 0° (universal)
- MPJ Short, 2 each, 5° (universal)
- MPJ Short, 1 each, 10° (universal)

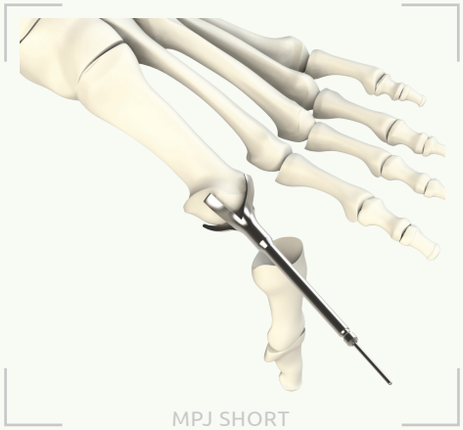
CUP & CONE REAMERS

- Cup & Cone Reamer Kits (14 – 24mm)*

**2mm increments*



MPJ STANDARD



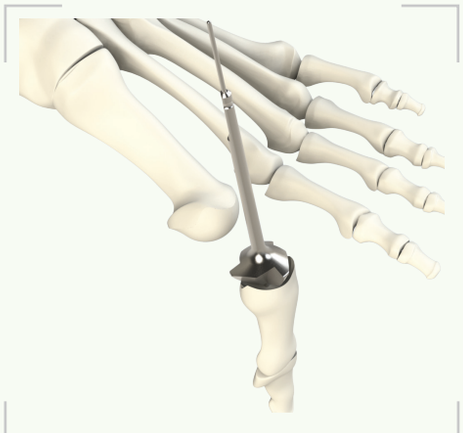
MPJ SHORT

STEP 01

Metatarsal Preparation

Insert a 1.6mm/.062” guidewire in the central aspect of the metatarsal. Place the metatarsal reamer over the wire and begin to ream. Reamer should be spinning prior to touching bone. Remove all articular cartilage exposing bleeding bone.

Note: a small drill bit or k-wire may be used to fenestrate the surface after reaming.



MPJ STANDARD

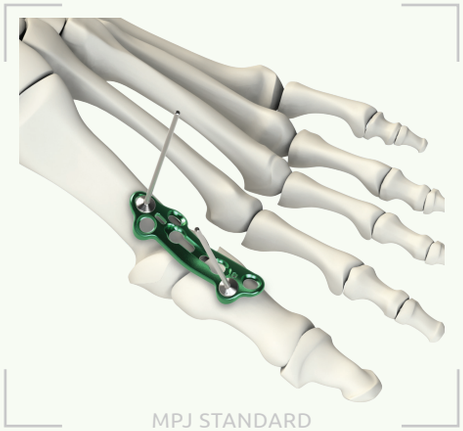
MPJ SHORT

STEP 02

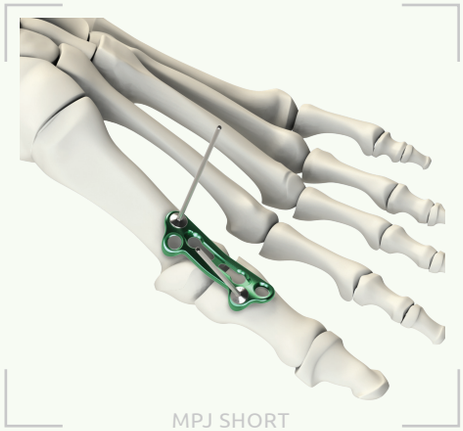
Phalanx Preparation

Insert a 1.6mm/.062” guidewire in the central aspect of the phalanx. Place the phalangeal reamer over the wire and begin to ream. Reamer should be spinning prior to touching bone. Remove all articular cartilage exposing bleeding bone. Ensure final phalanx reamer size matches final metatarsal.

Note: a small drill bit or k-wire may be used to fenestrate the surface after reaming.



MPJ STANDARD



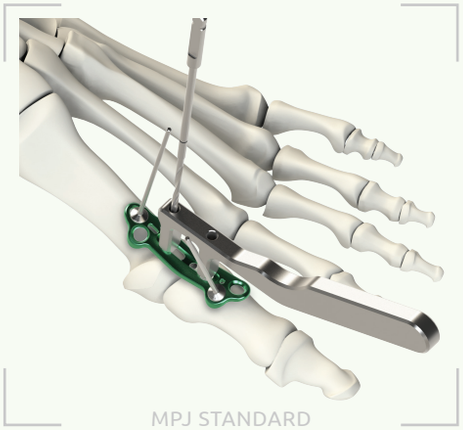
MPJ SHORT

STEP 03

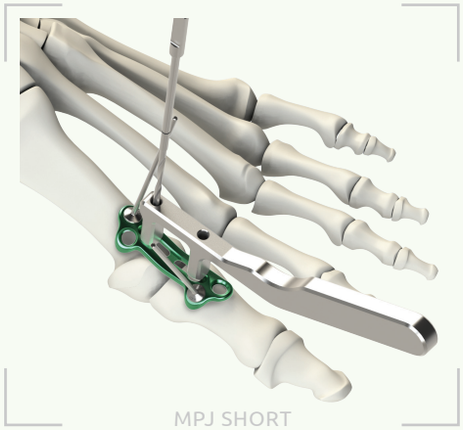
Trial and Initial Fixation

There are three implant options for a left or right foot.If an alternate implant is needed after opening the first sterile implant, re-package and discard the unused implant(s) in the EcoPAK container. Place temporary holding wires to secure plate. Observe placement using x-ray to confirm proper fit and placement.

Note: We do not recommend bending plates.



MPJ STANDARD

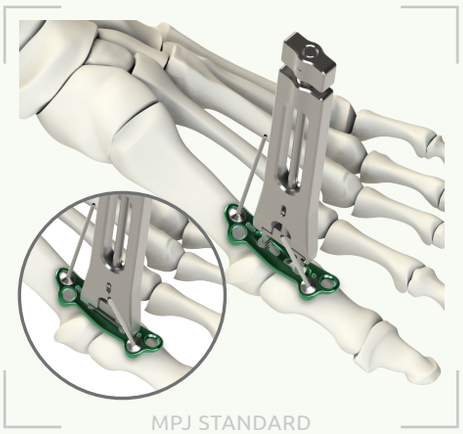


MPJ SHORT

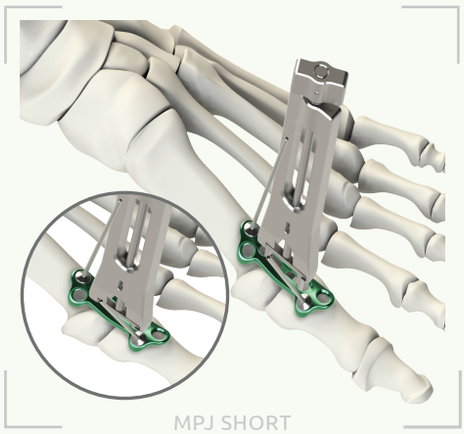
STEP 04

Clip Preparation

Use provided instruments to prepare for implantation of the DynaFORCE® clip.



MPJ STANDARD



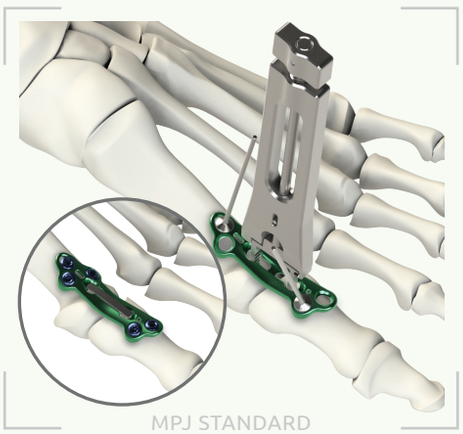
MPJ SHORT

STEP 05

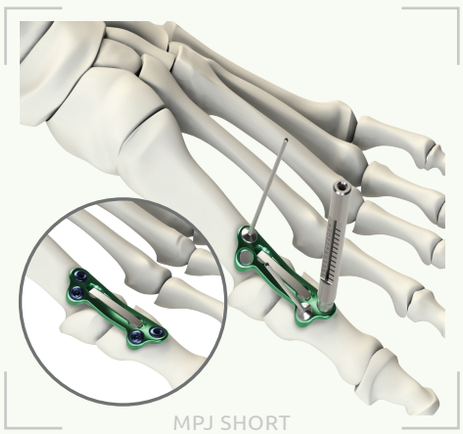
Clip Placement

Implant the DynaFORCE® clip through the plate. Rotate the knob counter-clockwise until pressure is released, then rotate the inserter counter-clockwise until the clip releases.

Note: A tamp is available if needed.



MPJ STANDARD



MPJ SHORT

STEP 06

Screw Placement

Drill and prepare for screws beginning with distal holes first. Non-Locking screws are recommended, unless bone quality is poor. If locking screws are used, ensure plate is firmly held to the bone on the opposite end prior to fully locking. If the compression slot is to be used for additional compression, insert non-locking screw in the compression slot prior to locking the other proximal screws.

**Patents Issued*

ACTIVESTABILIZATION.COM

CrossRoads Extremity Systems

6055 Primacy Parkway, Suite 140, Memphis, Tennessee 38119
(901) 221-8406 | info@crextremity.com | crextremity.com

LA0270 REV B