

# EXACTECH | EXTREMITIES

Operative Technique



**EPIC Extremity Akin Osteotomy**



## TABLE OF CONTENTS

<b>OPERATIVE TECHNIQUE OVERVIEW</b> .....	1
<b>DETAILED OPERATIVE TECHNIQUE</b> .....	2
<b>INSTRUMENT &amp; IMPLANT LISTING</b> .....	5
<b>INDICATIONS FOR USE</b> .....	5

## INTRODUCTION

EPIC Extremity foot and ankle reconstruction system allows surgeons the ability to configure trays for their specific needs through a modular implant and instrument tray design. The connect and disconnect modules easily allow surgeons to mix and match screws and plates based on implant preferences and surgical needs. In this technique, we will outline how to use the EPIC Extremity Small Staple for an Akin procedure. The implant consists of one size and style and includes instruments to assist in implantation. All implants are made from surgical-grade stainless steel.

EPIC Extremity is designed in conjunction with :

- **Stephen Conti, MD** – University of Pittsburgh Medical Center
- **Gerard Cush, MD** - Geisinger Musculoskeletal Institute
- **Robert Santrock, MD** - West Virginia University School of Medicine

# OPERATIVE TECHNIQUE OVERVIEW



**Figure A**  
Resect the Phalanx Medially

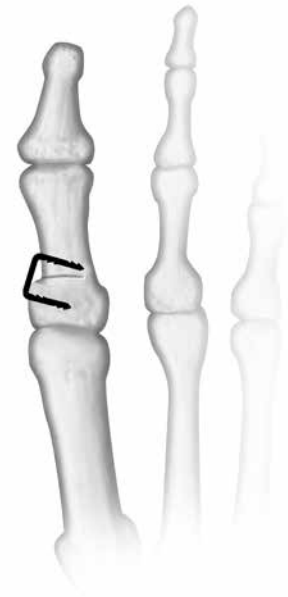


**Figure B**  
Drill the Pilot Holes



**Figure C**  
Insert the Staple

**Figure D**  
Impact the Staple



**Figure E**  
Take a Fluoroscopic Image to Confirm Implant Placement

## DETAILED OPERATIVE TECHNIQUE

### SURGICAL APPROACH



**Figure 1**  
Resect the Phalanx Medially

---

Perform a medial incision to expose the proximal phalanx. Use an **Oscillating Saw** to create a wedge on the medial side of the phalanx at an angle determined by the surgeon, based on intraoperative assessment.

Begin the resection on the medial phalanx and continue until the lateral cortex is reached, but not penetrated, thus creating a hinge in the lateral cortex (*Figure 1*). Remove the wedge and manually compress the bone to correct the position of the phalanx.



**Figure 2**

Drill the Pilot Staple Holes



**Figure 3**

Lock the Staple Into the Akin Staple Instrument

Place the **Akin Staple Instrument Drill Guide** across the osteotomy site. While applying pressure across the site, place a **1.6mm Guidewire** in one end of the drill guide. Use another 1.6mm Guidewire to drill a second pilot hole to ensure the drill guide does not move. Remove both guidewires (*Figure 2*).

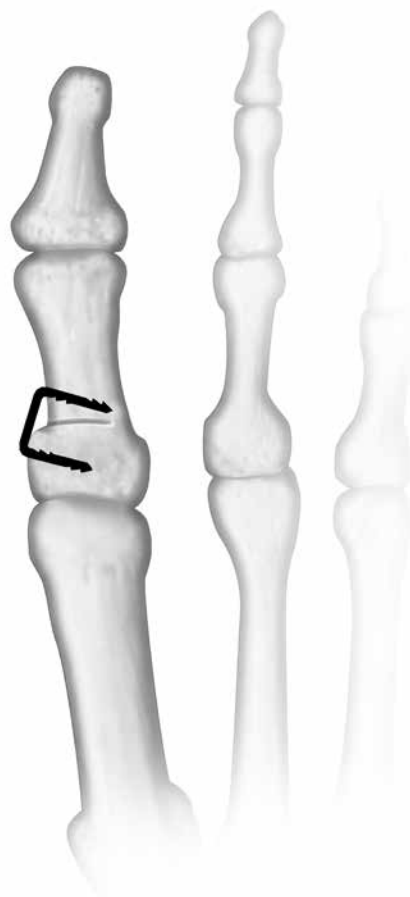
Use the opposite end of the **Akin Staple Instrument** to engage the staple. This is done by placing the slot feature over the staple, and pushing down and rotating the instrument 90° clockwise to engage the staple (*Figure 3*).

## DETAILED OPERATIVE TECHNIQUE

### SURGICAL APPROACH



**Figure 4**  
Insert the Staple



**Figure 5**  
Take a Fluoroscopic Image to Confirm Implant Placement

Insert the tips of the staple into the piloted holes and push it firmly in place. Disengage the staple from the instrument by turning the instrument 90° counterclockwise. Flip the instrument and place the drill guide portion over the staple and tap lightly with a small mallet until the staple is fully seated (*Figure 4*).

Take a final fluoroscopic image to confirm correct implant placement (*Figure 5*).

Close the incision based on the surgeon's preference.

**CORE TRAY - KIT-EP\_CORE**

Catalog Number	Part Description
1100-0160	Guidewire, 1.6mm x 150mm



**HALLUX VALGUS INSERT - OPT-EP\_GT**

Catalog Number	Part Description
3100-0000	Akin Staple Instrument



3000-1010	Akin Staple 10 x 10
-----------	---------------------



**2.5HL KIT - KIT-EP\_25HL**

Catalog Number	Part Description
1100-0160	Guidewire, 1.6mm x 150mm



3100-0000	Akin Staple Instrument
-----------	------------------------



3000-1010	Akin Staple 10 x 10
-----------	---------------------



INDICATIONS FOR USE

**INDICATIONS FOR USE**

The EPIC Extremity Small Staple is indicated for use in fixation of bone fractures or bone reconstruction. Examples include:

- Wedge osteotomy of the first phalanx (Akin osteotomy)
- Treatment of hallux valgus in order to correct valgus or pronation of the first ray
- Windswept toes

The Small Staple is intended for single-use only.

**CONTRAINDICATIONS FOR USE**

- Patients where there is an active infection
- Possibility for conservative treatment
- Patients with malignant primary or metastasis tumors which preclude adequate bone support or screw fixations, unless supplemental fixation or stabilization methods are utilized.
- Growing patients with open epiphyses
- Insufficient quantity or quality of bone to permit stabilization of the arthrodesis
- Suspected or documented metal allergy or intolerance

## AVAILABLE FOR SALE IN THE UNITED STATES.

Exactech is proud to have offices and distributors around the globe. For more information about Exactech products available in your country, please visit [www.exac.com](http://www.exac.com)

---

For additional device information, refer to the EPIC Extremity—Instructions for Use for a device description, indications, contraindications, precautions, and warnings. EPIC Extremity is not available for sale outside the United States. For further product information, please contact Customer Service, Exactech, Inc., 2320 NW 66th Court, Gainesville, Florida 32653-1630, USA. (352) 377-1140, (800) 392-2832 or FAX (352) 378-2617.

Exactech, as the manufacturer of this device, does not practice medicine, and is not responsible for recommending the appropriate surgical technique for use on a particular patient. These guidelines are intended to be solely informational and each surgeon must evaluate the appropriateness of these guidelines based on his or her personal medical training and experience. Prior to use of this system, the surgeon should refer to the product package insert for comprehensive warnings, precautions, indications for use, contraindications, and adverse effects.

The products discussed herein may be available under different trademarks in different countries. All copyrights, and pending and registered trademarks, are property of Exactech, Inc. This material is intended for the sole use and benefit of the Exactech sales force and physicians. It should not be redistributed, duplicated or disclosed without the express written consent of Exactech, Inc. ©2020 Exactech, Inc. 00-0000541 0220



**GLOBAL HEADQUARTERS:**  
2320 NW 66TH COURT  
GAINESVILLE, FL 32653 USA

+1 352.377.1140

+1 800.EXACTECH

+1 352.378.2617

[www.exac.com](http://www.exac.com)