



# THE BRACHIATOR

Mini External Fixation System



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**Paragon**<sup>®</sup>  
a  ZIMMER BIOMET company

## PRODUCT DESCRIPTION:

The Brachiator™ Mini External Fixation System is a low-profile, highly adaptable solution engineered to support small-bone fixation of the foot and ankle through a modular external fixation architecture. The system incorporates snap-on carriages, multi-planar adjustability, and templating instrumentation to support controlled construct assembly and intraoperative adjustment. A compact rail architecture and universal carriage interface allow flexible configuration while maintaining a streamlined construct footprint.

Designed around the constraints of small anatomy, the Brachiator™ system provides surgeons with a versatile platform for managing fractures, osteotomies, and deformity correction procedures where controlled adjustment and low-profile fixation are required.

This anatomy-driven platform is designed to:

- ▶ Support controlled reduction in small-bone fixation where micro-motion management is critical
- ▶ Enable fine rotational and translational adjustments within anatomically constrained regions
- ▶ Maintain stable fixation with a compact, low-profile construct design
- ▶ Support construct assembly with snap-on carriage engagement at any point along the rail
- ▶ Simplify instrumentation through a universal 3mm mini-pin shank compatible with all carriages

The Brachiator™ Mini External Fixation System provides an intuitive, surgeon-focused approach to small-bone external fixation, supporting controlled construct adjustment and adaptable configuration when precision matters.

## SYSTEM ADVANTAGES:

- ▶ Modular external fixation architecture featuring an M6 threaded rod interface
- ▶ Low-profile construct design suited for small-bone fixation in anatomically constrained regions
- ▶ In-plane and out-of-plane rotational adjustability supporting fine construct adjustments
- ▶ Snap-on clamp technology enabling friction-fit carriage placement along the construct
- ▶ Universal mini-pin platform accepting 1.6 mm, 2.0 mm, and 3.0 mm half pins, all sharing a common 3 mm shank and carriage interface
- ▶ Precise templating guides supporting preoperative and intraoperative construct planning
- ▶ Dedicated cut guide instrumentation supporting controlled osteotomies and pin alignment
- ▶ Intuitive, compact instrumentation design developed using surgeon-driven principles
- ▶ Streamlined tray configuration supporting efficient organization and minimized inventory complexity

## KEY FEATURES

### 1. Modular External Fixation Architecture

The Brachiator™ Mini system is designed with a modular construct architecture to support flexible configuration based on anatomy and procedural needs:

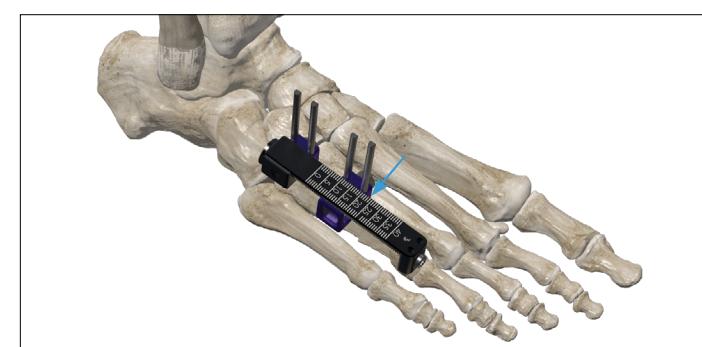
- ▶ M6 threaded rod interface incorporated into the rail design
- ▶ Modular clamp and carriage architecture supporting configurable construct assembly
- ▶ Shared clamp design principles supporting intuitive use and consistent construct mechanics



### 2. Multi-Planar Adjustability

Built-in architecture enabling:

- ▶ In-plane rotation
- ▶ Out-of-plane rotation



### 3. Snap-On Clamp Carriages

- ▶ Carriages snap easily onto the rail for fast, intuitive placement
- ▶ Rail supports multiple carriages for coordinated movement
- ▶ Carriages advance in unison to distract the metatarsal and phalanx simultaneously

### 4. Universal Mini-Pin Platform

Half pins available in:

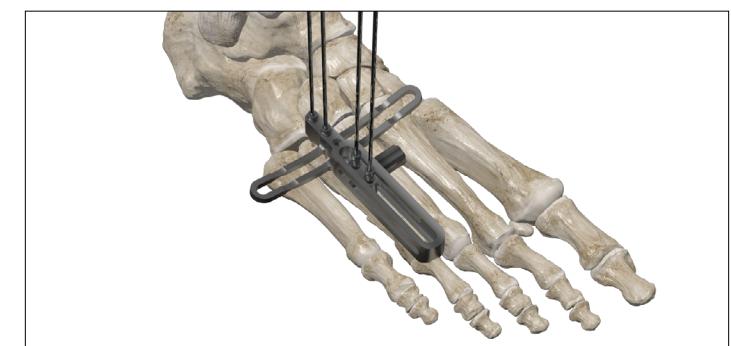
- ▶ 1.6mm
- ▶ 2.0mm
- ▶ 3.0mm

All featuring a universal 3mm shank, allowing every pin to fit the same carriage.



#### AVAILABLE HALF PINS

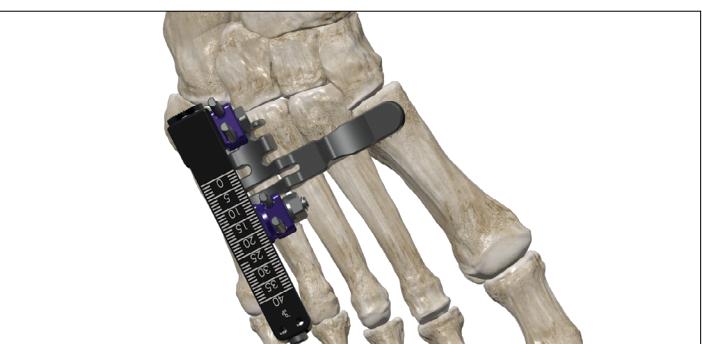
	Diameter	Overall Length	Thread Length
<b>1</b>	Ø1.6 mm	60 mm	15 mm
<b>2</b>	Ø2.0 mm	60 mm	20 mm
<b>3</b>	Ø2.0 mm	100 mm	25 mm
<b>4</b>	Ø3.0 mm	60 mm	20 mm
<b>5</b>	Ø3.0 mm	100 mm	33 mm



### Precise Templating Instruments

A dedicated set of radiographic and intraoperative templating tools enables reproducible planning and predictable construct assembly.

- ▶ Templates for half pin alignment
- ▶ Radiographic templates for pin spacing and entry points
- ▶ Intraoperative gauging tools to guide optimal clamp and carriage placement
- ▶ Supports surgeons in maintaining consistent geometry across constructs



### Cut Guide Instrumentation

A dedicated set of radiographic and intraoperative templating tools enables reproducible planning and predictable construct assembly:

- ▶ Designed for controlled osteotomy preparation and precise pin trajectory:
- ▶ Low-profile mini cut guides for phalangeal, metatarsal, and midfoot procedures
- ▶ Guides interface directly with the Brachiator™ clamp for stable positioning
- ▶ Slots and stepped channels support repeatable saw and burr access
- ▶ Helps create flat, controlled bone cuts for reduction accuracy



### Core Instrument Set

- ▶ Snap-on clamp tool
- ▶ Mini wrench and driver set
- ▶ Pin insertion and purchase verification tools
- ▶ Pin Cutter
- ▶ AO Adapter
- ▶ Osteotomy Guide
- ▶ Wires and Wire sleeve templating



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