

FusionFrame™

Ring Lock System



Technical Specifications

The FusionFrame™ Ring Lock System is the updated configuration of the circular external fixation apparatus conceived by Prof. G. A. Ilizarov and was designed to address the needs and requirements of foot and ankle surgeons.

Its components have been engineered to ensure overall construct stability, versatility, ease of application, functionality and efficiency. The System is designed for the treatment of Charcot neuroarthropathy and other foot and ankle pathologies including:



- Diabetic Charcot reconstruction
- Redistribution of loads for soft tissue management
- Resolution of bone and soft tissue defects
- Foot and ankle deformity corrections
- Management of trauma and trauma residuals
- Joint arthrodeses

Rings, Rods and other frame elements are available in a range of sizes.

Charcot Fixation Construct



FusionFrame at a glance

Briefly described, the FusionFrame provides a weight bearing scaffold that in most cases allows patients to remain mobile throughout the course of treatment and consists of externally mounted Rings and ancillary components that are interconnected with Rods. The construct is attached to the bone with a combination of percutaneously applied tensioned Wires. Compression/distraction struts may be attached to the frame to systematically control the gaps between bone fragments and distance between Rings to manage a variety of pathologies. Threaded Rods or Struts may be used to reduce and compress fracture zones, lengthen limbs and gradually correct deformities when used in combination with Hinges.

Targeted technology

Although suitable for most segments of the skeletal anatomy, the FusionFrame was developed to explicitly address the challenging needs of foot and ankle specialists. Its components have been designed to incorporate the features of full circumferential stability, intuitive application and reproducible efficacy.

Versatile, adaptable, adjustable

The nearly endless array of FusionFrame configurations ensures the right construct for every indication. The System provides full weight bearing stability and allows you to precisely re-align bones, correct deformities, apply compressive forces, control the gradual distraction of bone fragments, reduce, stabilize and manage fractures. Adjustments may be executed intra and post operatively.

The FusionFrame is fully compatible with other GLW Medical Innovation products such as the Nexis® Headless, Headed and Snap-off Screws, Lync® Hammertoe Implants, Arcad® Compression Clips and Airlock® Plates.

FusionFrame Components

1	Full Rings	140mm – 205mm	
2	Half Rings	140mm – 205mm	
3	Foot Plates	140mm – 205mm	
4	Oblique Support	One Size	
5	Threaded Rods	60mm – 400mm	
6	Smooth Wire / Wire with Stopper*	1.8mm	
7	Half Pins*	5mm & 6mm Thread Diameter	
8	Wire Fixation Bolt*	Combination Slotted / Cannulated	
9	Half Pin Fixation Bolt*	Accommodates All Half Pin Sizes	
10	Half Pin Fixation Cubes	1–4 holes	
11	Nuts	Hexagonal Head with 10mm Span	
12	Bolts	12mm, 16mm & 20mm	
13	Washers*	Three Thicknesses, Including Slotted Washer	
14	Male / Female Posts and Hinges	1 – 4 Holes	
15	Quick Connect Struts*	Short, Medium and Long Sizes	
16	Walkie Pucks	Tall and Short Sizes with Removable Spacer	
17	Wire Tensioner	Graduated Dynamometric Scale	
18	Wrenches*	Open and Socket for 10mm Hex	
19	T-Wrench with Adapter*	Accommodates All Half Pin Sizes	

* Not shown in diagram



Dynamometric Wire Tensioner

The FusionFrame Wire Tensioner features a ratcheted plier-handle mechanism that delivers accurate, "one-pump" tensioning with quick release for maximum efficiency and minimal effort. The instrument comes equipped with removable jaws for precise access to all possible Frame contours.

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a surgeon. Rx only.

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