

# HammerLock™

Nitinol Intramedullary Fixation System

Advanced shape memory implant design perfect for hammertoe arthrodeses.

Aggressive barbs maintain compression while minimizing stress on cortical walls.

Three sizes in straight and angled versions for proper fit in a wide variety of cases.

Anatomical proportions for proper reduction of smaller phalangeal segments.

Patent-pending HammerBlock™ deployment system for fast, precise, no-touch insertion.



**BME**  
Changing the Shape  
of Orthopaedics



# 1

After site preparation and resections, prepare the medullary canals by drilling into each canal with the recommended drill bit. If necessary, the reamer may be used to resect the articular cartilage.

*Note: For Small use S180-QD; for Medium and Large use S240-QD. Drill at least 3/4 length of cutting flutes proximally. Drill 1/4 length of flutes distally to create a distal pilot hole to facilitate broaching.*

# 2

Without rotating, broach into the proximal canal with an in-and-out motion using the HLB1 Broach. Repeat into the distal canal with the HLB2 Broach.

*Note: The HLB1 Broach may be used distally to facilitate the entry of the HLB2 Broach.*

# 3

LOCK the supplied forceps onto the rounded clamshells and disengage the implant from the polyethylene storage block. Do not remove the clear tab.

*Note: For earlier HammerBlock™ deployment systems without the clear tab, see below.*

# 4

Insert the exposed end of the implant into the proximal canal until the clamshell/tab assembly makes contact with the distal bone surface. Impact gently with a mallet if necessary.

# 5

Open the forceps to expose the distal end of the implant. While flexing/distracting the joint, insert the distal end of the implant into the distal fragment until contact is made with the clear tab.

# 6

Remove the tab dorsally and immediately reduce the joint. Manually compress the joint for 1-2 minutes.

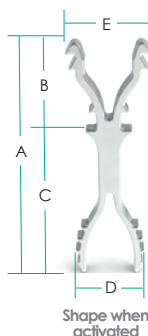
*Note: Full activation is achieved when implant warms to normal limb temperature.*



For earlier HammerBlock™ deployment systems without the clear tab, grasp the implant with tissue forceps as shown while reducing the joint. Remove the forceps dorsally and immediately reduce the joint. Manually compress the joint for 1-2 minutes.

#### STORAGE AND HANDLING OF THE HAMMERLOCK™

- HammerLock™ implants may be stored at room temperature, however, they must be placed in a standard freezer for a minimum of 30 minutes prior to removing from the polyethylene block.
- After drilling and broaching, remove the implant from the freezer and deliver to the operating room within 10 minutes.
- After removal from the implant packaging, device must be fully implanted within a total of 4 minutes to prevent premature activation (a maximum of 2 minutes for the proximal end and 2 minutes for the distal end).



Shape when activated

#### HammerLock™ Sizing Chart

Angle	Size	Catalog No.	A	B	C	D	E
Straight (0°)	Small	HLXS	16	5.5	10.5	5.5	6.0
	Medium	HLXM	19	6.5	12.5	6.5	6.5
	Large	HLXL	22	7.0	15.0	6.5	6.5
Angled (10°)	Small	HLXSA	16	5.5	10.5	5.5	6.0
	Medium	HLXMA	19	6.5	12.5	6.5	6.5
	Large	HLXLA	22	7.0	15.0	6.5	6.5

- All sizes in millimeters describing implants in fully activated states.
- HammerLock™ X-ray Template (A117-006) may be used to determine the appropriate implant size.