creed hammerthread™

Percutaneous PIPJ Fusion

Key Steps & Fluoro Checks

Creed HammerThread™ Digital Fusion Implant System | MIS hammertoe correction

The wire leads. The implant follows.

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ADVANCING FOOT & ANKLE.
BUILT FOR **MIS.**

Items to request *in addition to standard foot & ankle instrumentation*

- Mini C-arm fluoroscopy
- Power burr handpiece with 4:1 reducer (high torque, low rpm)
- Wire driver
- Beaver blade for the 2 mm portal
- 18-gauge angiocath and saline irrigation

GLW Case Ready™ components *sterile, single use*

- Creed HammerThread instrument kit: AO handle, tapered T8 driver
- Ø1.3 × 150 mm double-trocar K-wires (4) and mini depth gauge (in kit)
- Creed HammerThread Ø2.5 mm implants: Mallet Head or Hammer Head
- Creed Edge Shannon burr, Ø2.0 mm (sold separately)
- Optional Ø3.2 mm drill kit (PIP implant without DIPJ compression)

1 Position the Patient

Place the patient supine with the operative foot hanging off the end of the bed, resting on the mini C-arm. The non-operative leg may be placed in a frog-leg position. Set the mini C-arm on the contralateral side of the extremity and the power equipment on the ipsilateral side.

Note: *OR equipment positioning is a recommendation and may be modified to the surgeon's preference.*



Supine, foot resting on the mini C-arm

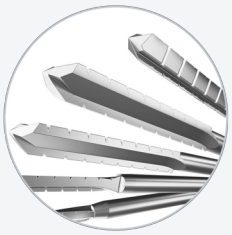
2 Open the Portal & Burr the PIPJ

Make a 2 mm incision with a beaver blade on the medial or lateral side of the PIPJ, spanning the blade across the joint to create a portal. Introduce the Creed Edge Shannon burr through the portal and debride the PIPJ, removing cartilage from both sides of the joint.

Note: *Choose the medial or lateral portal according to the surgeon's dominant hand.*



Burr through the 2 mm portal



Creed Edge burrs, single use

3 Protect the Skin & Clear the Joint

Irrigate the surgical site continuously while burring to protect the skin. Introduce an 18-gauge angiocath through the portal to flush any residual bone paste from the joint.

Note: *Burr with high torque at low rpm and safe speeds. Rotate around the fulcrum (supinate and pronate) rather than pulling on the skin.*



18-gauge angiocath flushes the joint

4 Reduce & Drive the K-wire

Hold the PIPJ reduced and insert a Ø1.3 mm double-trocar K-wire into the distal phalanx from the tip of the toe. Cross the DIPJ and PIPJ and advance the wire to the base of the proximal phalanx.

FLUORO CHECK Lateral view: wire centered in the distal phalanx, not too dorsal or plantar.

Note: *Correct the wire placement if it shows any visible bending before the implant goes in.*



Wire across the DIPJ and PIPJ



Bone view: wire through the toe tip

5 Measure Implant Length

Use the mini depth gauge over the Ø1.3 mm K-wire to determine the appropriate implant length.

FLUORO CHECK Wire tip at the base of the proximal phalanx before measuring.

Note: *The gauge is made for the Ø1.3 mm wire and reads 10–60 mm.*



Mini depth gauge in the Case Ready™ kit

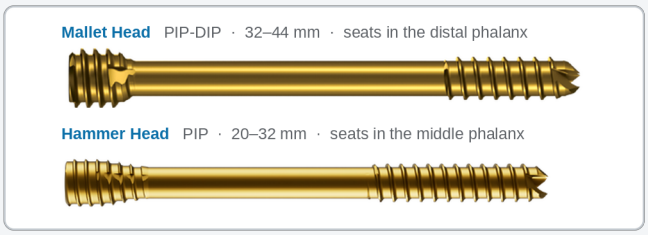
See the Creed HammerThread Operative Technique and the Creed Implants and Creed Case Ready Instructions for Use (glwmed.com/ifu) for complete indications, contraindications, warnings and precautions. Workshop training is recommended before first surgery.

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6 Choose the Head

Select the implant for the joints to be fixed. The Mallet Head (PIP-DIP, 32–44 mm) has a shorter, stout head that seats fully in the distal phalanx to fix the PIPJ and DIPJ. The Hammer Head (PIP, 20–32 mm) has a longer tapered head that seats fully in the middle phalanx to fix the PIPJ only.

Note: *The optional Ø3.2 mm drill allows a PIP implant to be inserted without compressing the DIPJ.*



Both heads: Ø2.5 mm, 12 mm leading thread, cannulated for the Ø1.3 mm wire

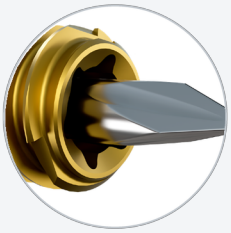
7 Insert the Implant Over the Wire

Attach the cannulated, tapered T8 driver to the AO handle and drive the selected Ø2.5 mm implant over the K-wire. The self-drilling, self-tapping tip cuts its own path along the wire; the driver is also compatible with power insertion.

Note: *The tapered driver matches the implant's major diameter, so it follows the implant past the distal phalanx without a larger hole.*



Tapered T8 driver on the AO handle



Ø1.3 mm wire in the cannulation

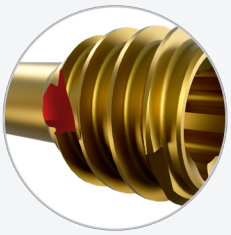
8 Seat the Head & Compress

Advance until the head is fully seated, the Mallet Head in the distal phalanx or the Hammer Head in the middle phalanx, and complete final compression with the AO handle and tapered T8 driver.

Note: *Each head is designed to seat fully in bone to increase purchase and maintain compression.*



Final compression



Forward-cutting head

9 Verify & Remove the Wire

Once the final position is confirmed, remove and discard the K-wire. Repeat these steps for each additional toe; the instrument kit includes four Ø1.3 mm K-wires.

FLUORO CHECK Verify the final position of the reduction and the implant before removing the wire.



Mallet Head: PIPJ and DIPJ



Hammer Head: PIPJ only

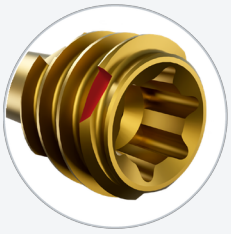
10 Aftercare & Removal

Postoperative protocol is at the surgeon's discretion; protected weight-bearing for 4–6 weeks is generally recommended. If removal is required, re-create the distal incision to reach the T8 interface and back the implant out with any T8 driver.

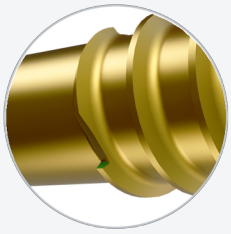
Note: *Reverse-cutting features at the proximal and distal threads help the implant back out through bone.*



T8 interface



Reverse-cutting head



Reverse-cutting thread

Creed HammerThread implants at a glance

Implant	Joints fixed	Head seats in	Lengths	Guidewire	Instrument kit
Mallet Head (PIP-DIP), Ø2.5 mm	PIPJ and DIPJ	Distal phalanx	32–44 mm	Ø1.3 × 150 mm double-trocar	Case Ready™ instrument kit
Hammer Head (PIP), Ø2.5 mm	PIPJ	Middle phalanx	20–32 mm	Ø1.3 × 150 mm double-trocar	Case Ready™ instrument kit

Headless compression implants with a 12 mm leading thread, titanium alloy (Ti-6Al-4V ELI); lengths in 2 mm steps. Implants, kits and burrs are supplied sterile for single use.

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CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician. Rx only. This guide is intended for healthcare professionals. It summarizes a suggested technique and does not replace the operative technique, the instructions for use or the independent clinical judgment of the treating surgeon. Creed HammerThread implants are CREED™ Cannulated Screws, FDA 510(k) K223847. Product availability is subject to regulatory clearance or approval in each market.

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