

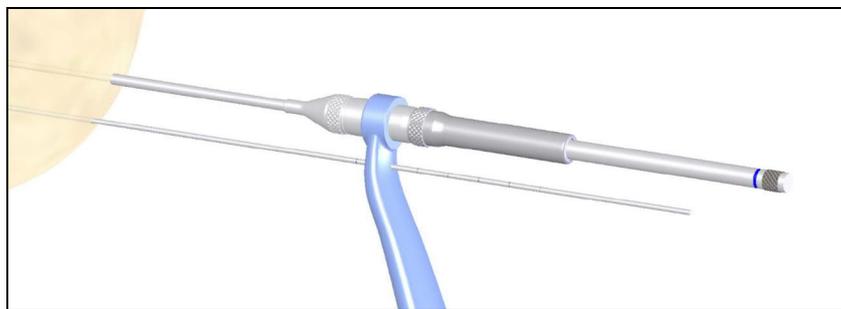
ARTHROSCOPIC TECHNIQUE

Arthroscopic Technique of ActivaPin™, to be applied to 1.5 mm and 2 mm ActivaPin™ and 1.5 mm and 2 mm ActivaNail™ Conical

- Select the appropriate ActivaPin™ / ActivaNail™ Conical for the indication and corresponding tip to the Bioretec Arthroscopic Applicator
- Insert the tip of the Bioretec Arthroscopic Applicator into the joint through a small incision.

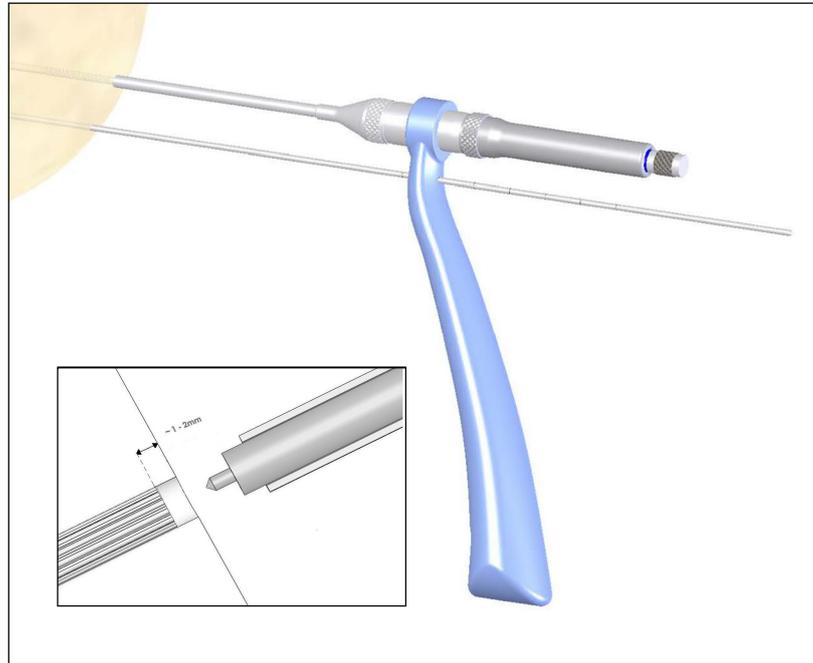
Optional technique: The bone fragments can be secured before preparing the first pin channel by inserting one K-wire for 1.5 mm ActivaPin™ (B-IP-1504) through the hole in the instrument handle and drilling the K-wire to hold the bones. This will help in achieving proper reduction of the fracture fragments and maintaining the alignment while drilling and placing the first pin through the arthroscopic applicator.

- Drill a hole which corresponds to the pin diameter through the fracture/osteotomy plane using corresponding Bioretec Arthroscopic K-wire. Make sure that drilled hole is sufficiently deep especially for nail to avoid the protruding of nail head. To prevent over drilling, multiple reaming with the K-wire should be avoided. In the insertion of 1.5 mm ActivaPin™ or 1.5 mm ActivaNail™ Conical, select K-wire 1.5 mm (B-IP-1506) for cancellous or osteoporotic bone and 1.6 mm (B-IP-1504) for cortical bone to drill a hole.
- Open the ActivaPin™ / ActivaNail™ Holder cap.
- Pick the pin / nail by pushing the ActivaPin™ Applicator Piston distal head into the ActivaPin™ Holder until it is properly attached to the pin / nail.
- Slide the attached pin / nail and the Piston into the ActivaPin™ Arthroscopic Sleeve through the twist lock by twisting the Piston clockwise.

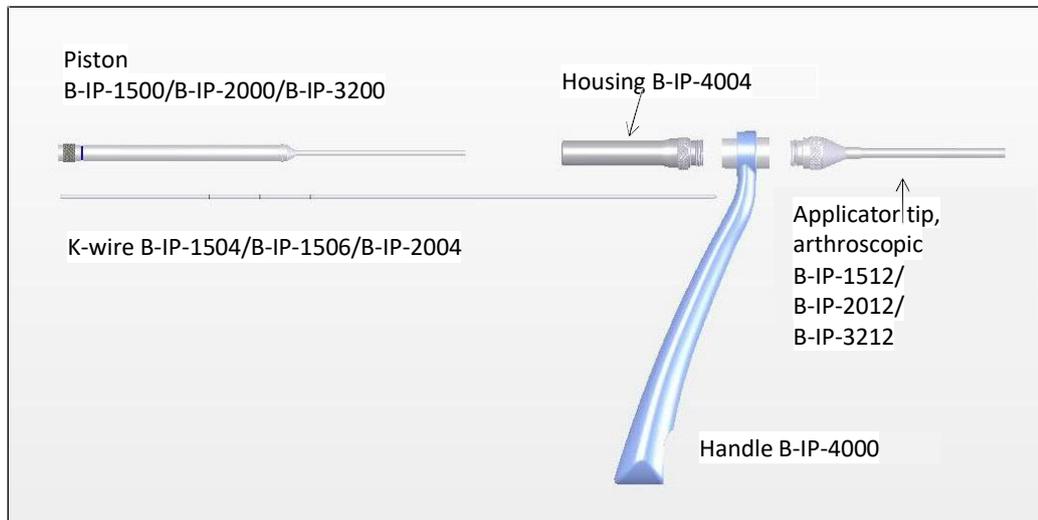


- Introduce the pin / nail into the hole by pressing the Piston with the thumb.
- During the insertion of the pin / nail, hold the applicator and the pin / nail parallel to the long axis of the drill hole so that the pin / nail slides easily into the drill hole. Insert the pin / nail by lightly tapping the Piston with a mallet.

- Tap the Piston until the entire pin / nail is forced fully into the drill hole. ActivaPin™ Arthroscopic applicator is designed so that it sinks the pin / nail 1-2 mm underneath the bone cartilage when Piston is tapped to the end of Sleeve. This prevents the head of the pin / nail protruding which could cause soft tissue irritation.



- Two or more pins / nails can be applied if necessary (depending on the nature and size of the fracture). In such a case, it is recommended that implants are inserted at divergent angles to one another rather than parallel, for best fixation strength.
- On the basis of surgeon's decision radiographs are taken before wound closure.
- After fixation, the wound is closed in layers applying standard principles of orthopaedics and traumatology.
- Meticulous hemostasis and complete primary skin closure over the implant are essential.



Instruments

Product code	Description
B-IP-4000	Applicator handle, arthroscopic, for pins and nails
B-IP-4004	Applicator housing, arthroscopic, for pins and nails
B-IP-1512	Applicator tip, arthroscopic, for 1.5 mm pins
B-IP-2012	Applicator tip, arthroscopic, for 2.0 mm pins
B-IP-3212	Applicator tip, arthroscopic, for 1.5/2.0 mm nails
B-IP-1506	K-Wire \varnothing 1.5 mm, length 260 mm, for 1.5 mm pins/nails
B-IP-1504	K-Wire \varnothing 1.6 mm, length 260 mm, arthroscopic, for 1.5 mm pins/nails
B-IP-2004	K-Wire \varnothing 2.0 mm, length 260 mm, arthroscopic, for 2.0 mm pins/nails
B-IP-1500	Applicator \varnothing 2.0 mm, reusable, for 2.0 mm pins
B-IP-2000	Applicator \varnothing 2.0 mm, reusable, for 2.0 mm pins
B-IP-3200	Applicator \varnothing 3.2 mm, reusable, for 3.2 mm pins and for 1.5/2.0/2.7/3.2 mm nails