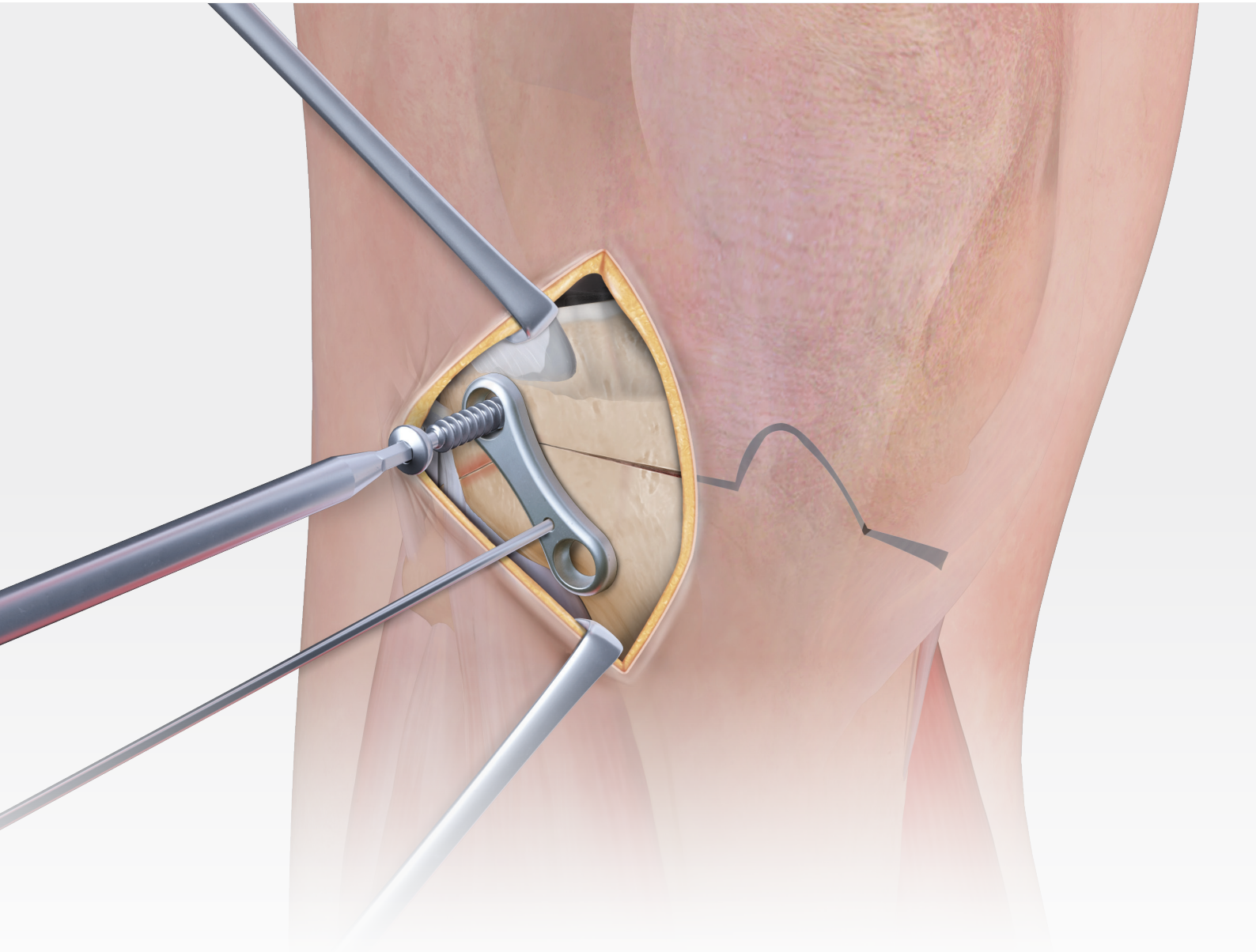
Two-Hole Osteotomy Support Plate System

Surgical Technique



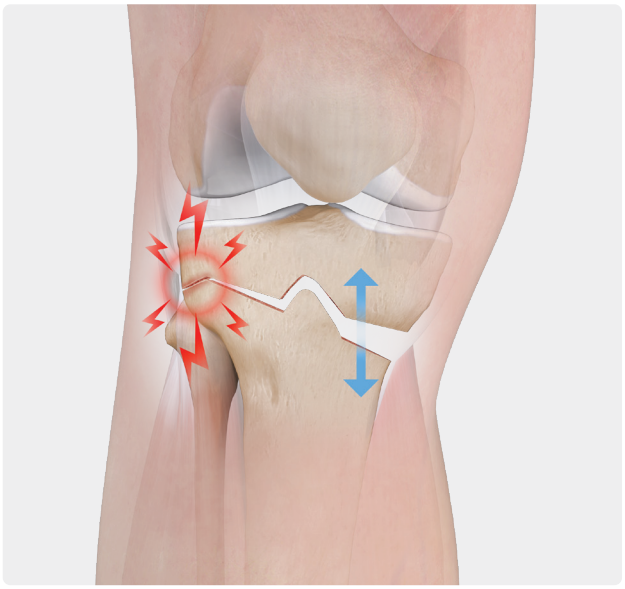
Arthrex®

System Features

Clinical Use
The 2-hole osteotomy support plate stabilizes hinge fractures that can occur unintentionally during an opening wedge osteotomy of the proximal tibia or distal femur.

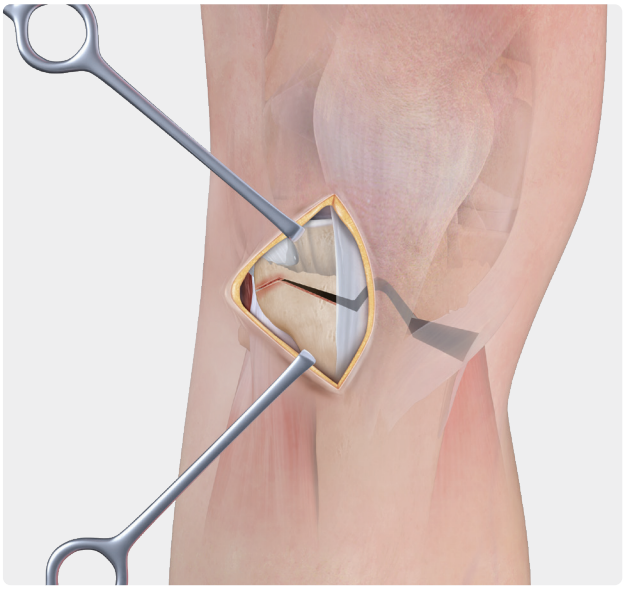
Implant System
The implant system contains a plate with two 4 mm × 30 mm nonlocking, self-tapping bone screws. The screw heads are nonthreaded and can be inserted in variable angles. The drill hole can be prepared with a 2 mm drill. To insert the screws, a 2.5 mm hexalobe screwdriver is needed.

Surgical Technique Overview



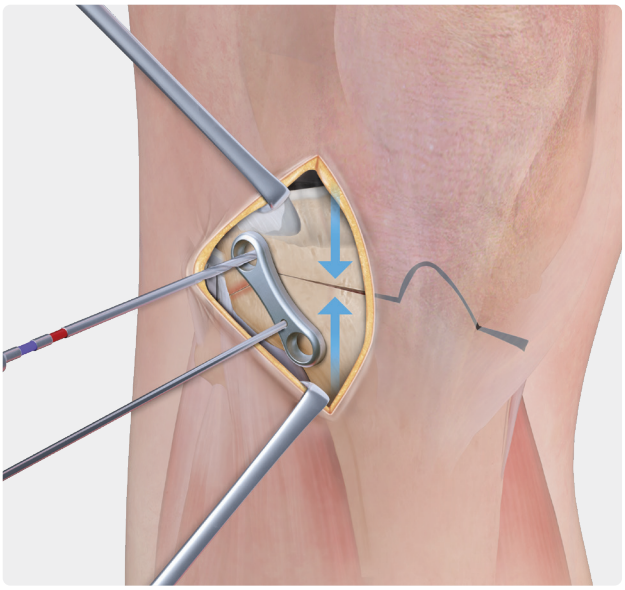
01

Identification of Fractured Bone
Perform a fluoroscopy in a strict A-P direction to identify the fractured cortical bone.



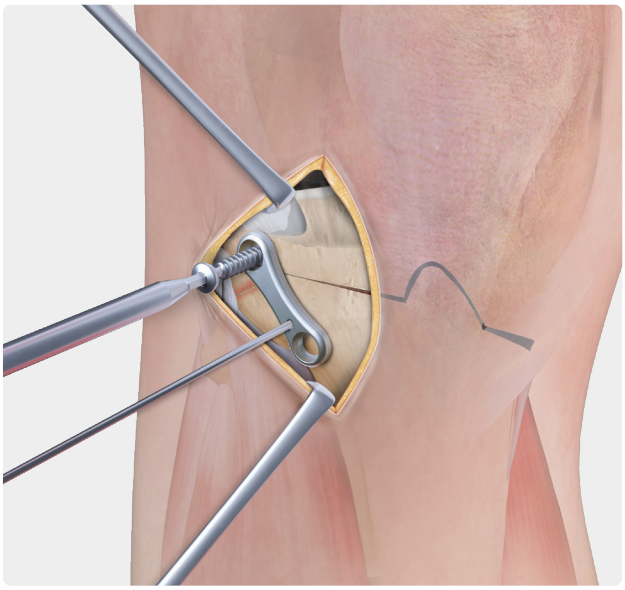
02

Incision and Preparation of Bone
Incise the skin at the level of the fracture and open the deep fascia anterior to the iliotibial tract. Release the proximal attachment of the tibialis anterior muscle from the bone without stripping the periosteum. Retract the tibialis anterior muscle laterally to access the bone.



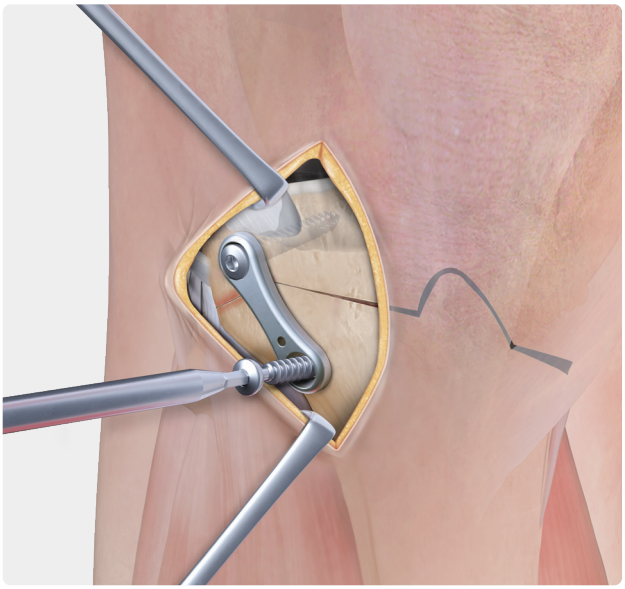
03

Coverage of Fractured Bone With Placement of K-Wire
Close the osteotomy gap to approximate the lateral bone and place the plate over the fracture. If desired, bend the plate to fit the anatomy. Secure the plate position with a 1.6 mm K-wire. Next, drill a 2 mm hole to a depth of 30 mm.



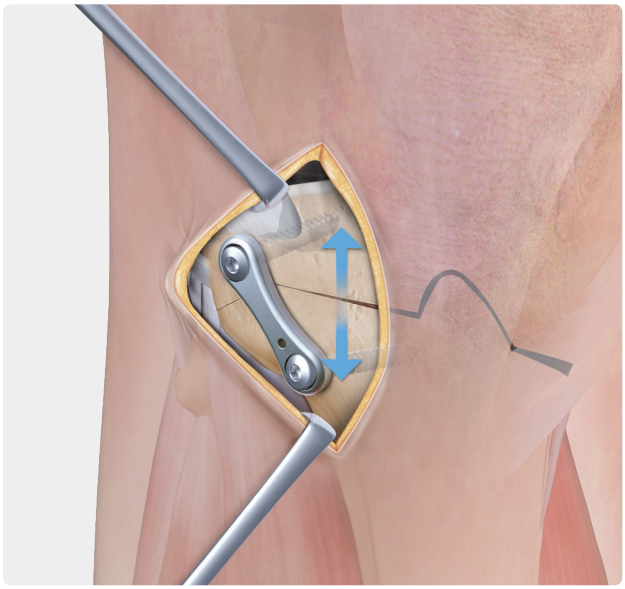
04

Initial Screw Insertion
Fully insert the first 4 mm self-tapping bone screw using a 2.5 mm hex screwdriver.



05

Secondary Screw Insertion
Remove the K-wire and drill a second hole of 30 mm depth, diverging away from the direction of the first screw. Insert the second bone screw.



06

Final Implant Fixation
Fully insert the second screw to complete the stabilization of the hinge fracture. The osteotomy can be reopened and continued to achieve the desired alignment correction.

Ordering Information

Instruments	
2-Hole Osteotomy Support Plate Implant System	AR-13215
K-wire, 1.6 mm × 200 mm	AR-5050K-1
Drill bit, 2.0 mm, short, AO	AR-18800-18
Universal bending iron, osteotomy plates	AR-13322-02
Noncannulated short screwdriver shaft, 2.5 mm hex, Ø 5.5 mm × 134 mm long	AR-1995SHN

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Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)

US patent information