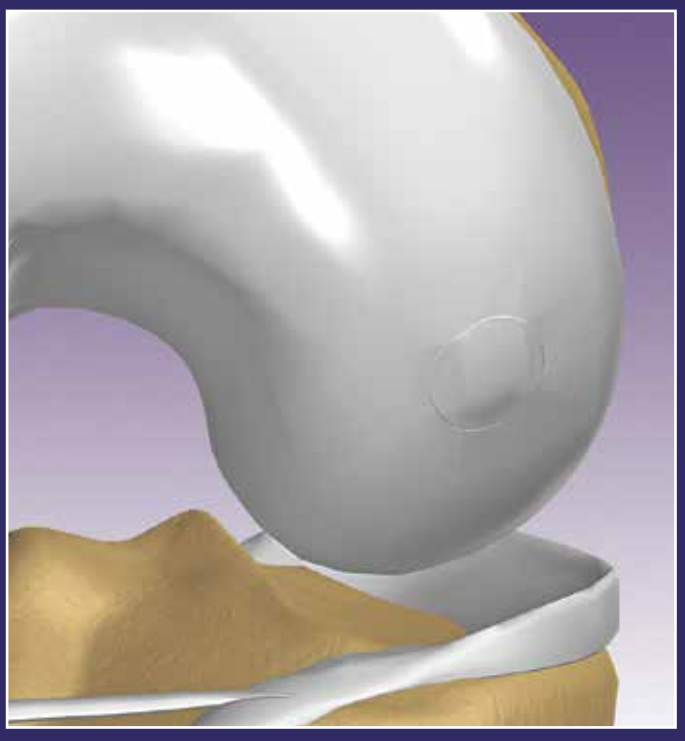
Arthrex®

Single Use OATS®
(Osteochondral Autograft Transfer System)

Surgical Technique

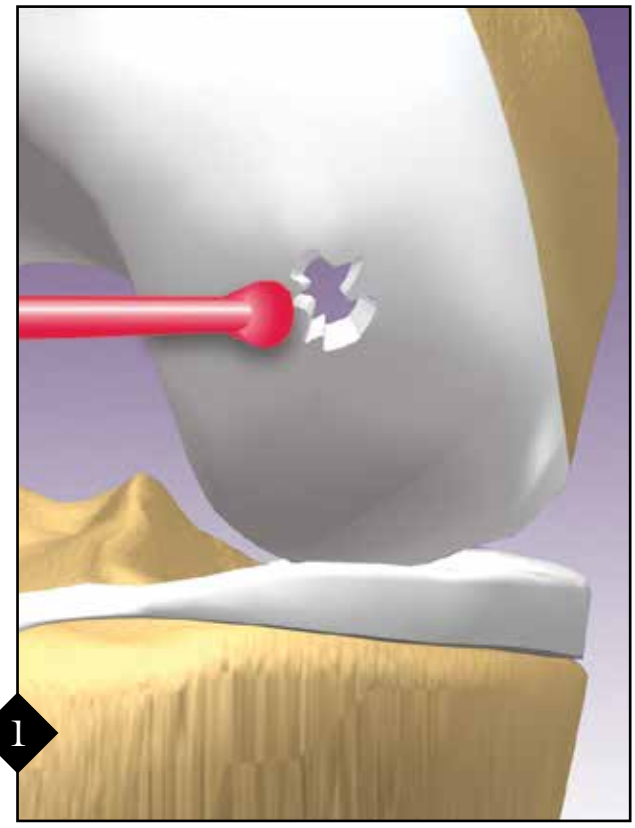


Single Use OATS

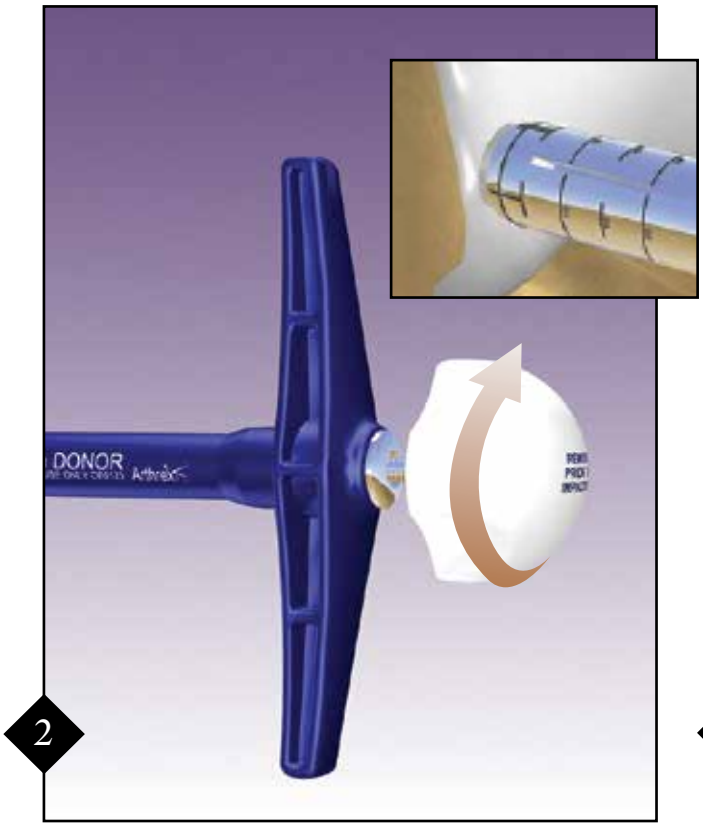
The Single Use OATS (Osteochondral Autograft Transfer System) facilitates harvesting of 6, 8, or 10 mm osteochondral/hyaline cartilage cylinders from a donor site superior and lateral to the notch or above the sulcus terminalis. A recipient socket, sized to the appropriate depth, is created in the chondral defect to accept the donor graft. The bone cylinder can be visualized through the clear graft Delivery Tube while it is inserted with the collared pin delivery system for press-fit fixation.

The completely disposable, size-specific system includes a recipient harvester, donor harvester, alignment rod, tamp, graft Delivery Tube, Core Extruder for controlled push-in core insertion, and optional graft driver.

All of the system components are provided sterile and are packaged in a rigid thermo-formed tray, nestled in individual compartments.

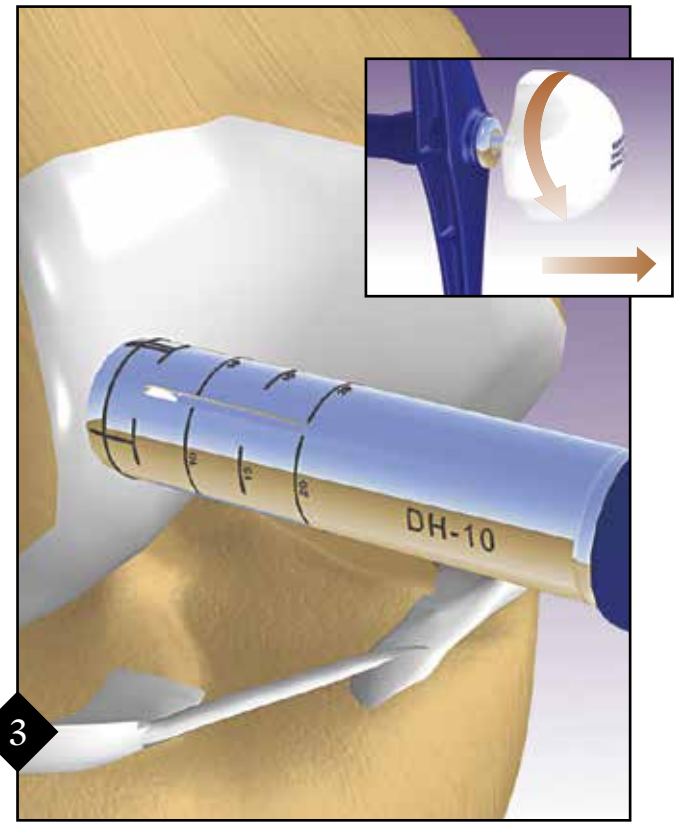


The appropriate Single Use OATS Set is selected based on the size of the articular cartilage defect as measured with an appropriate size Sizer/Tamp from the OATS Sizer/Tamp Instrumentation Set.

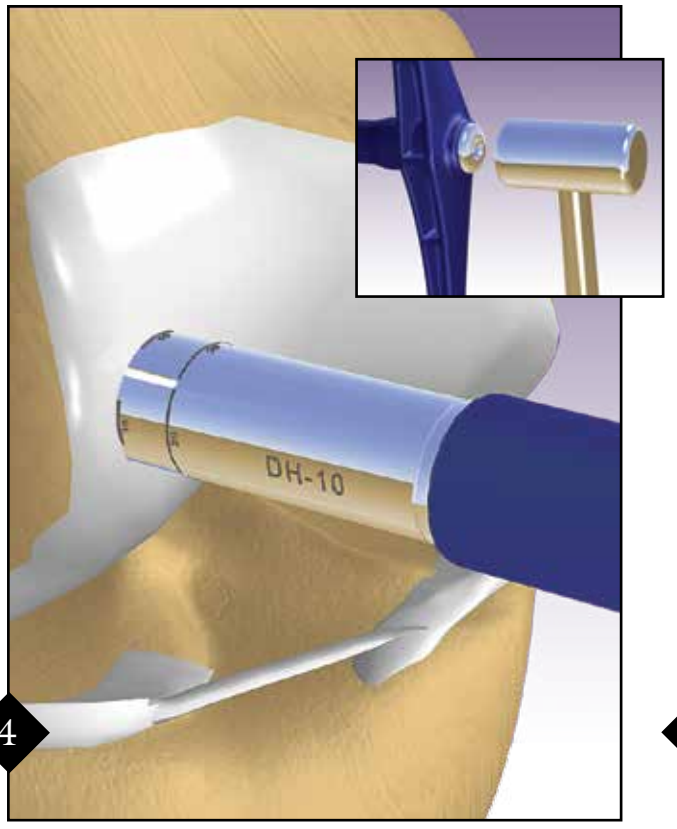


Each OATS harvester may be used multiple times during the procedure if necessary.

Using the screw-in core extruder knob, the collared pin of the blue donor harvester is advanced 1-2 mm outside of the leading edge of the harvester.

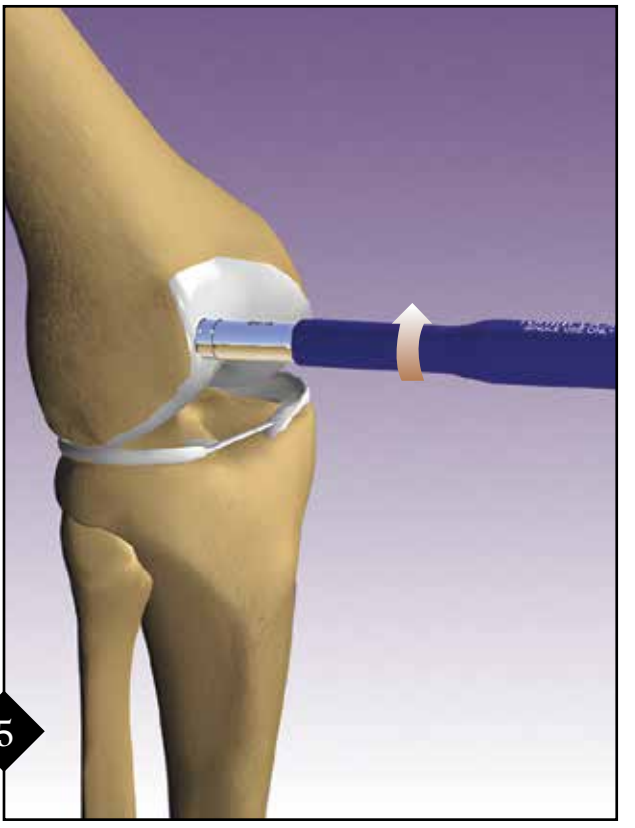


The donor harvester is positioned perpendicular to the donor surface and the screw-in Core Extruder knob is removed from the back of the Donor Harvester allowing the sharp edge of the harvester to seat flush against bone.



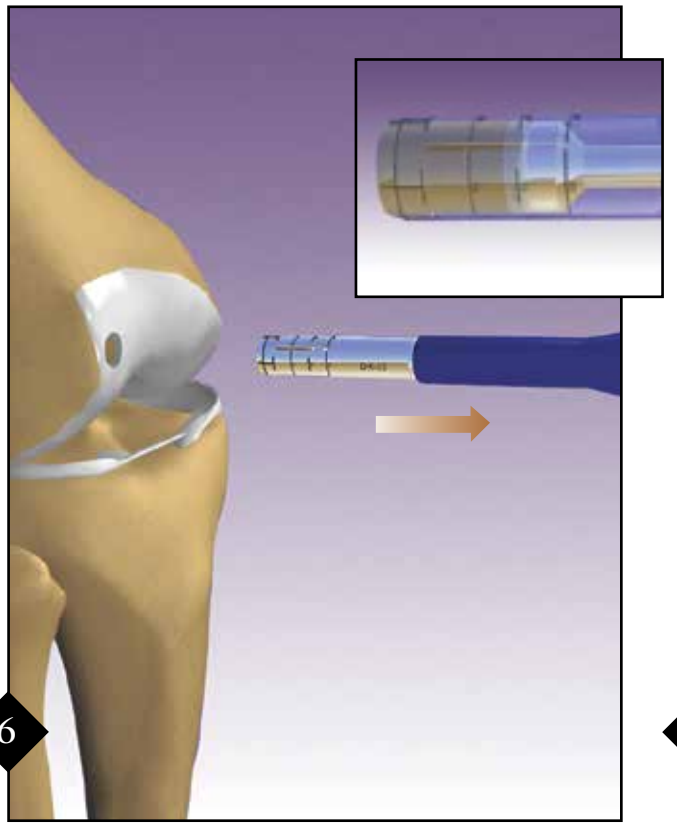
4

Using a mallet, the Donor Harvester is impacted to a desired depth of approximately 15 mm.



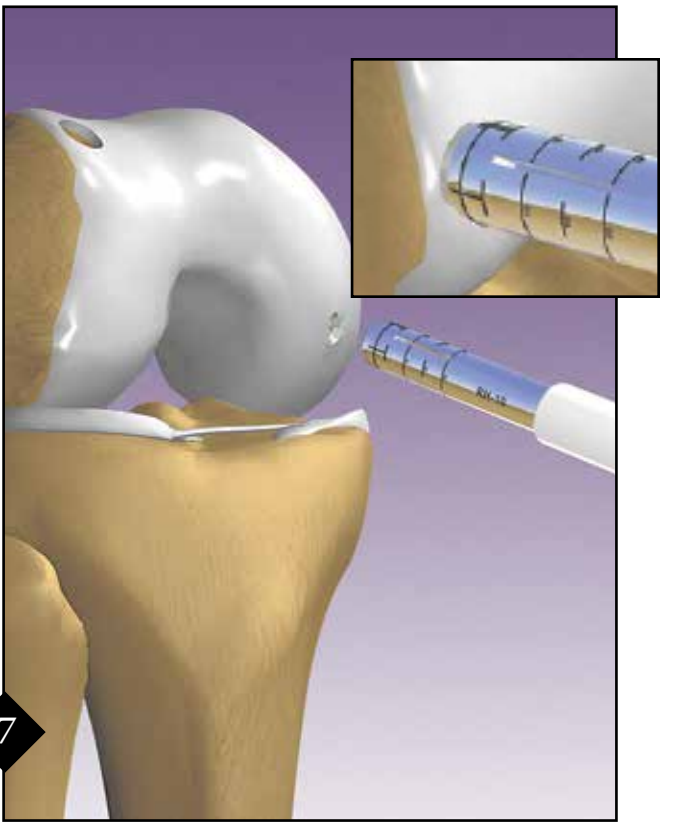
5

The coined edges of the harvester assist in disengaging the graft from subchondral bone when applying pressure against the harvester's T-handle and rotating the handle 90° clockwise twice. The harvester can then be withdrawn from the bone.



6

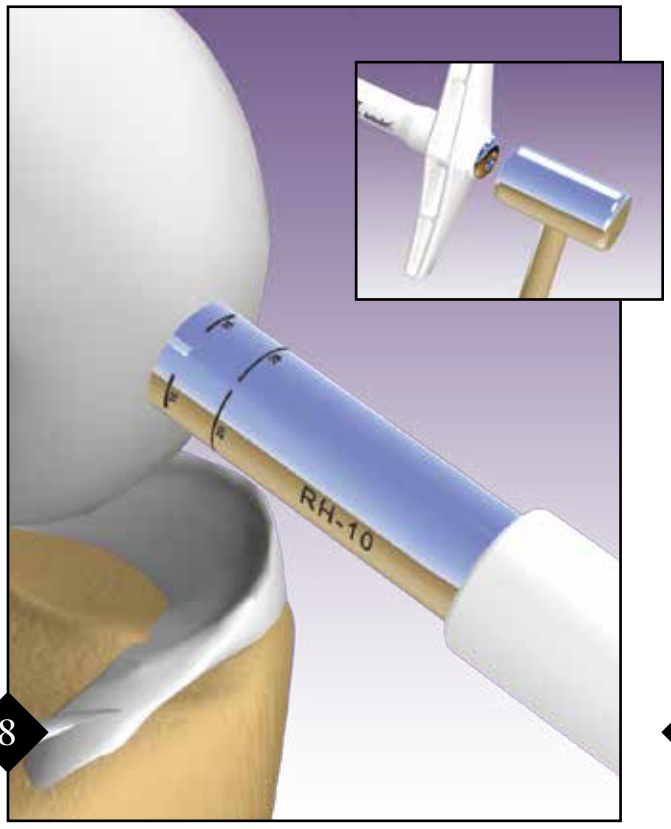
The depth of the core is referenced through the harvester's windows once the harvester is removed and used to determine the depth of recipient socket preparation.



7

The Recipient Harvester, core extruder knob and collared pin are assembled to assure atraumatic insertion into the knee.

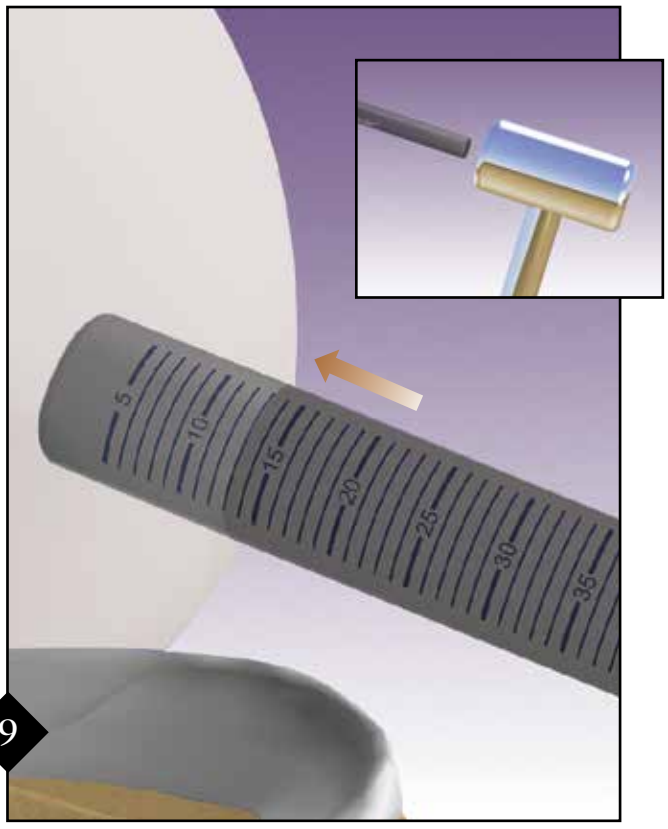
Using the screw-in Core Extruder knob, the collared pin of the Donor Harvester is advanced 1-2 mm out the tip of the harvester. The harvester is then positioned perpendicular to the osteochondral defect and the Core Extruder knob removed.



8

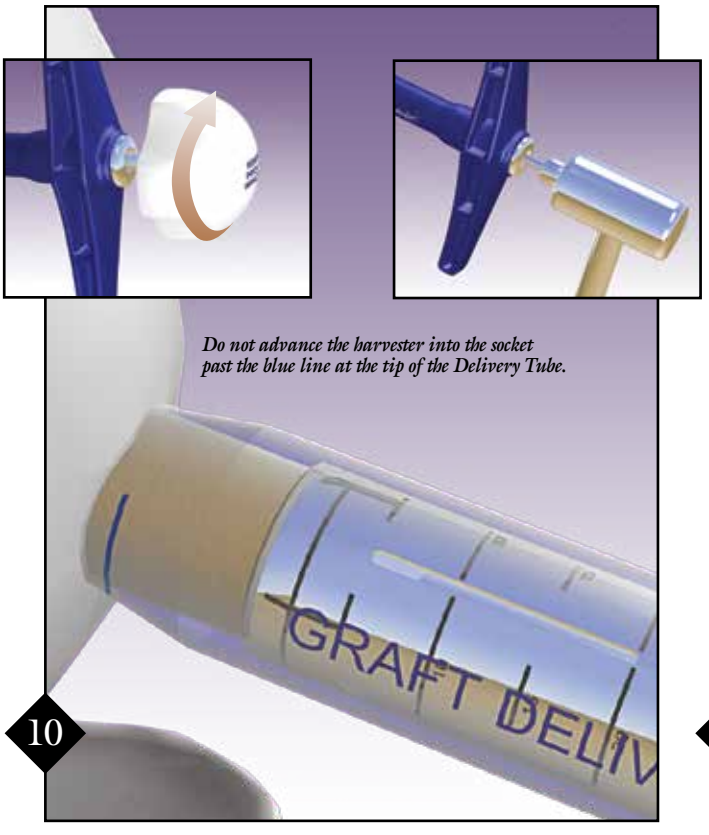
The recipient harvester is then impacted to a depth of 13 mm or 2 mm less than the length of the donor graft measured.

The harvester is removed creating the bone socket in similar twisting fashion as previously shown.



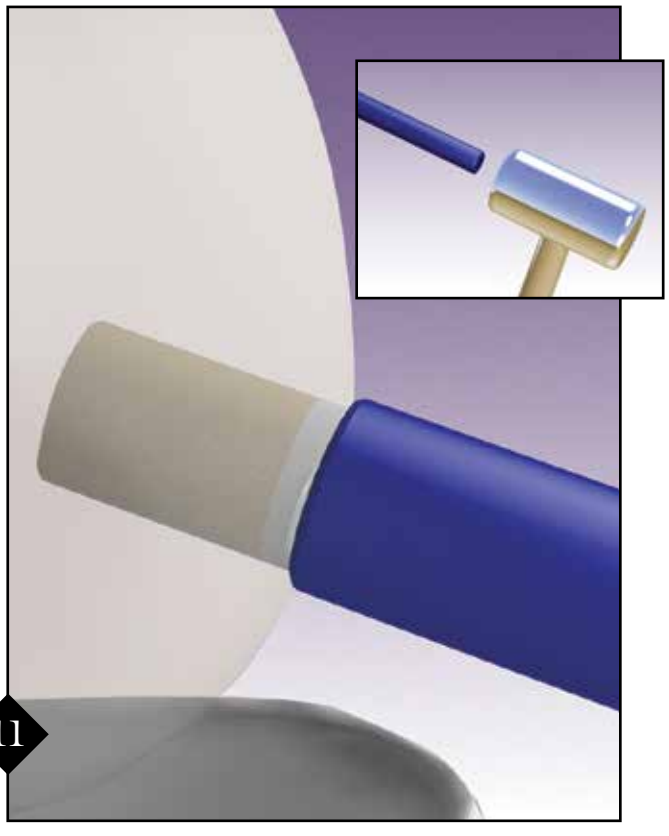
9

A graduated Alignment Rod is used to measure the recipient socket depth and insertion angle of the graft. Slight modifications to the socket depth may also be performed at this time. The Alignment Rod is advanced into the socket until the depth, similar to the length of the core, is achieved.



10

After placing the clear graft Delivery Tube over the end of the Donor Harvester, the Core Extruder is inserted into the back of the harvester and advanced until the recipient graft is flush with the edge of the Delivery Tube. The beveled edge of the delivery tube is inserted perpendicularly into the recipient socket and the graft advanced into the recipient socket using the Core Extruder.



11

Alternatively, the graft may be inserted by inserting the graft driver into the back of the Recipient Harvester and tapping the graft into position. Final seating of the graft is performed using a Tamp.

ORDERING INFORMATION

Single Use OATS Sets (sterile and single use):

Single Use OATS Set, 4.75 mm	AR-1981-04S
Single Use OATS Set, 6 mm	AR-1981-06S
Single Use OATS Set, 8 mm	AR-1981-08S
Single Use OATS Set, 10 mm	AR-1981-10S

OATS Sizer/Tamp Instrumentation Set (AR-1985S):

Sizer/Tamp, 6 mm, red	AR-1985-06
Sizer/Tamp, 8 mm, purple	AR-1985-08
Sizer/Tamp, 10 mm, black	AR-1985-10
OATS Sizer/Tamps Instrument Case	AR-1985C

OATS Sizer/Tamp Instrumentation Set

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's Directions For Use.

Arthrex®

www.arthrex.com

. . . up-to-date technology just a click away