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Surgical Technique

Avitus® Bone Debrider

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System Overview

Indications For Use

The Avitus Bone Debrider is intended:

1. To harvest cancellous bone and marrow

2. To debride and capture infected, necrotic or diseased cancellous bone (e.g. osteomyelitis, cancellous bone tumors)

Contraindications

1. Osteoporosis, or other disorder that diminishes the quality of bone tissue.

2. Active infection in or around the donor site (unless using device to remove bone infection).

3. Bone anatomy in which the device cannot fit.

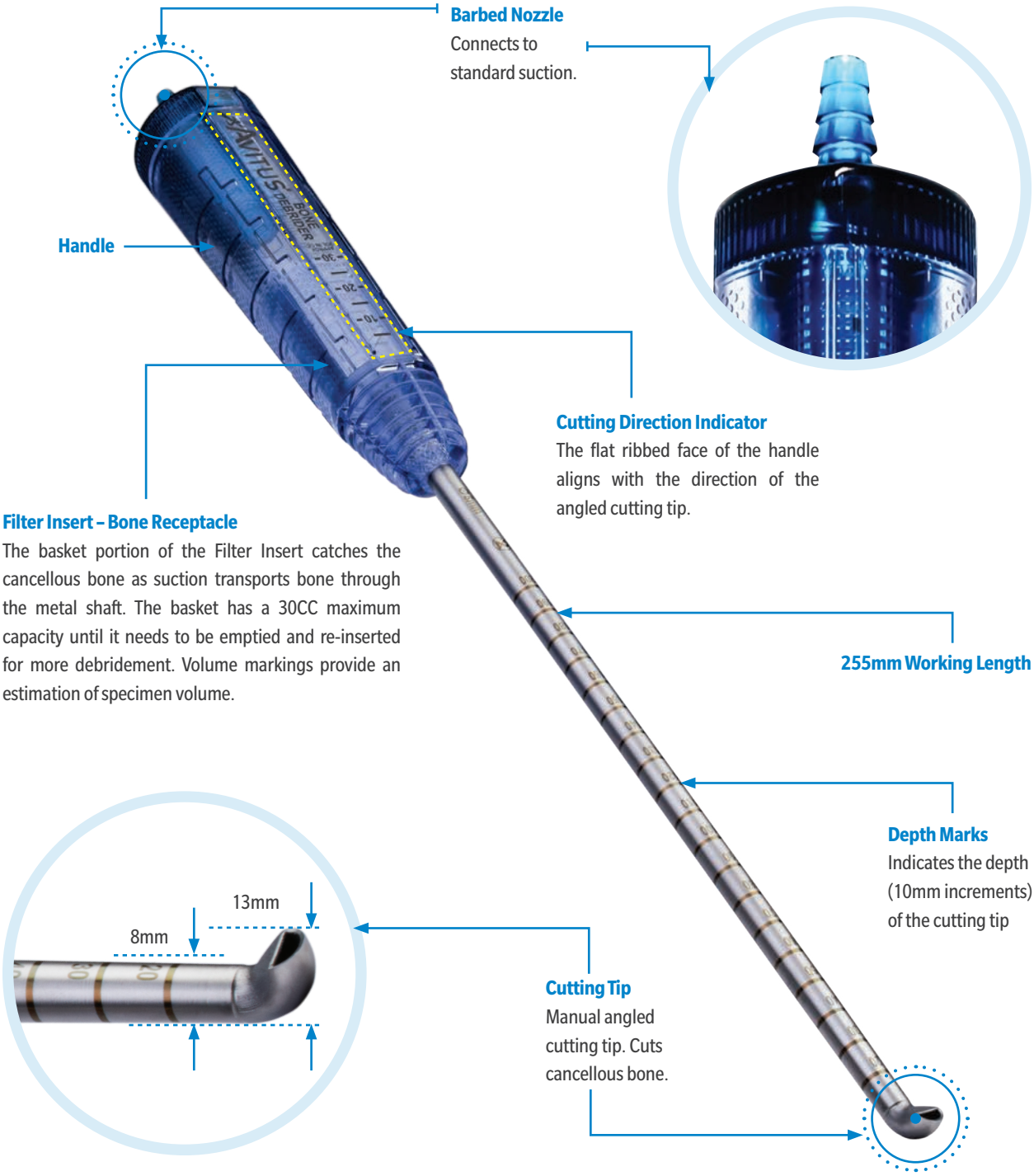
4. Previous donor site harvest.

5. Patients who are not a candidate for autograft.

Summary

The Avitus® Bone Debrider is a closed-capture™ suction curettage system that can be used for the debridement and capture of infected, necrotic, or diseased cancellous bone. Specimen collects inside the Filter Insert for easy retrieval. It is a plug-and-play system that connects to standard operating room suction sources.

System Overview



Device Setup - Kit Content



1. Cap
2. Filter Insert
3. Spatula
4. Plunger
5. Filter Insert

(Debrider is pre-assembled with Filter Insert and Cap)

Device Setup - Connect to Suction

1. Connect Avitus® Bone Debrider to the suction source with a **dedicated suction line that is not shared by other suction devices in the room.**	**2.** Keep Avitus® Bone Debrider easily accessible so that it is readily available for debridement.
3. Turn suction source to HIGH/MAX.	**4.** Prepare specimen cups on the back table (not included).

General Debridement Technique - Pearls

Pearls

Scrape the Canals

Drag the angled cutting tip blade along surfaces to scrape. Limited to canals 13mm in diameter or greater (Fig. 1).

Work the Clock

For thorough debridement, scrape the length of the canal at each circumferential increment (Fig 2).

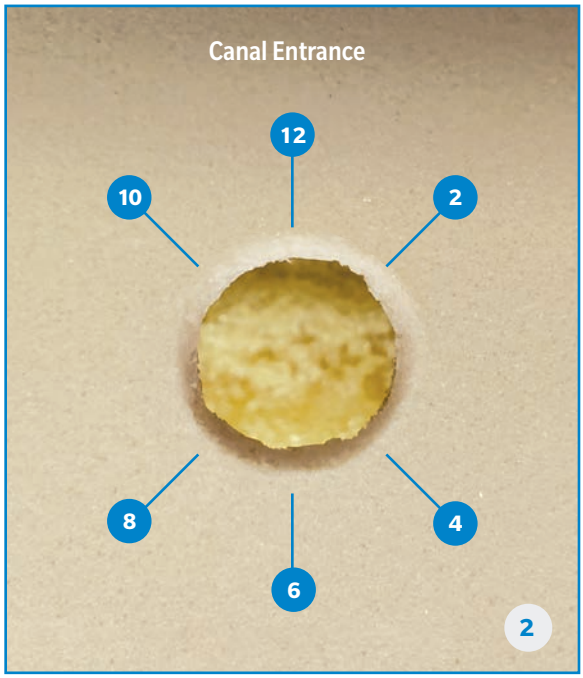
E.g. Scrape along the length of the canal with the angled blade facing the 12 o'clock position around the canal. Rotate the handle to align the blade to the 2 o'clock position and scrape again. Repeat until satisfied with debridement.



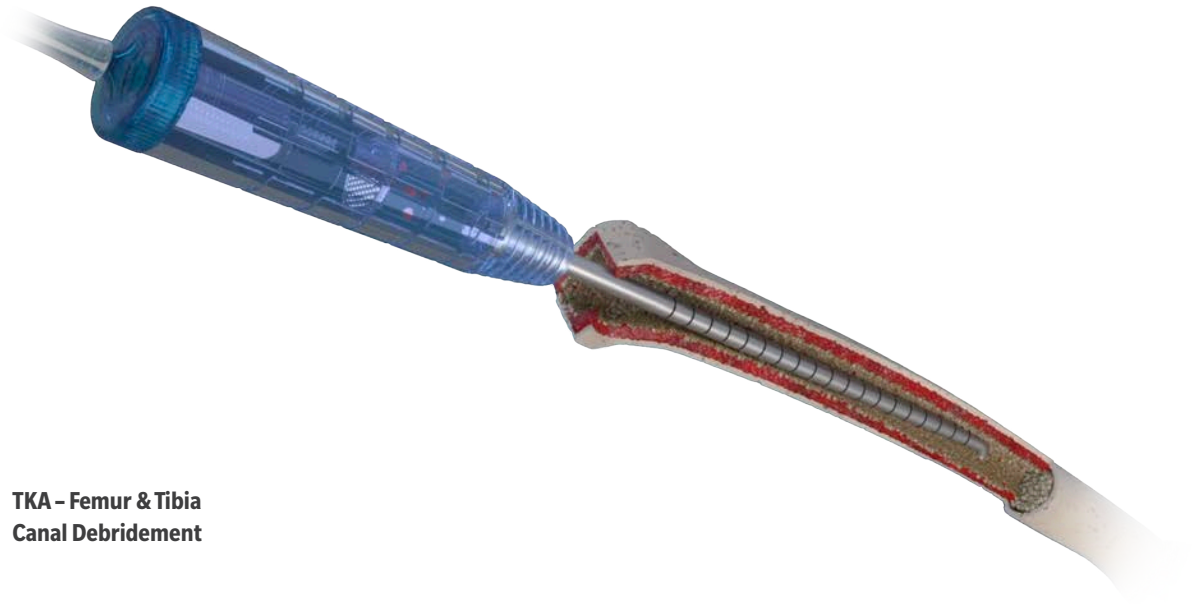
Empty the Device when FULL

Suction power may be reduced when device reaches capacity. Empty contents and reconnect to suction to resume debridement (Fig. 3).

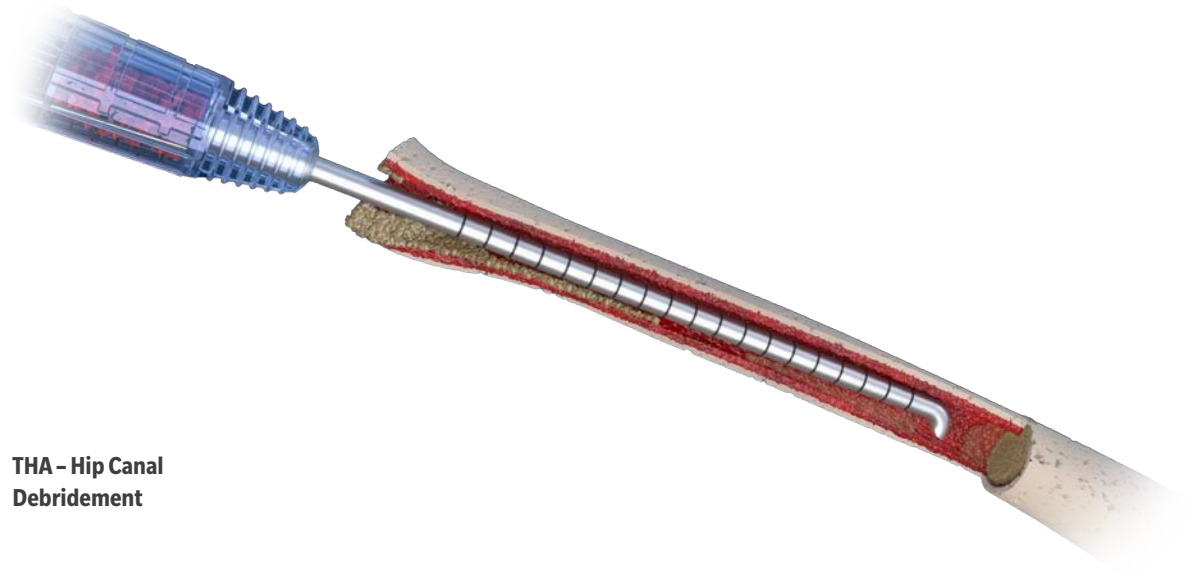




Example Debridement Applications

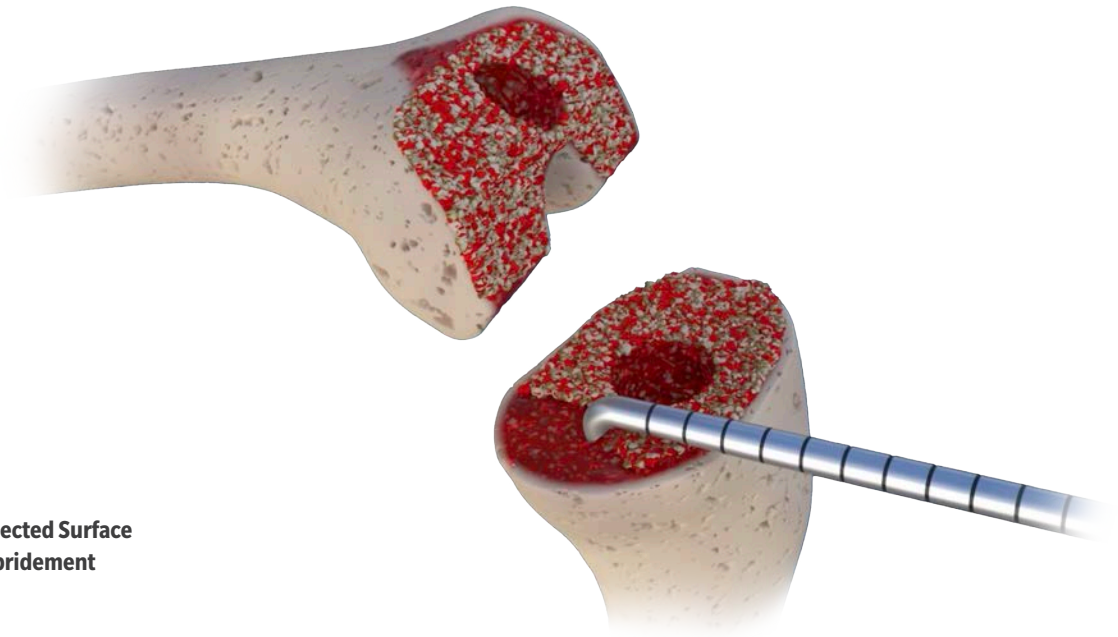


TKA – Femur & Tibia Canal Debridement

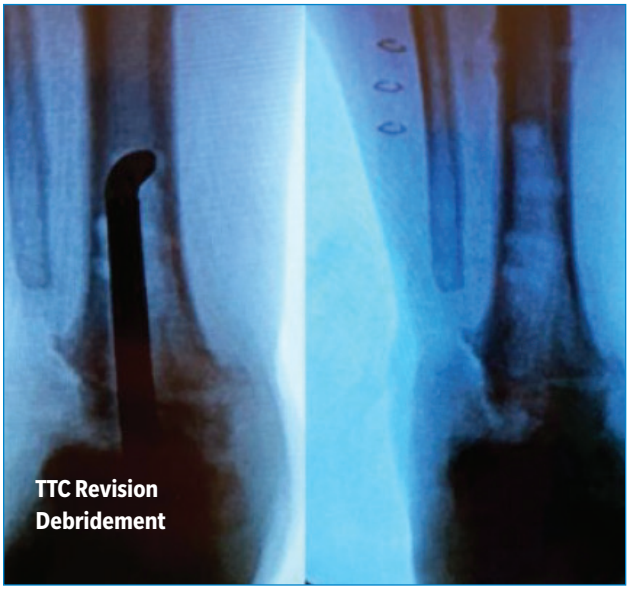


THA – Hip Canal Debridement

Example Debridement Applications



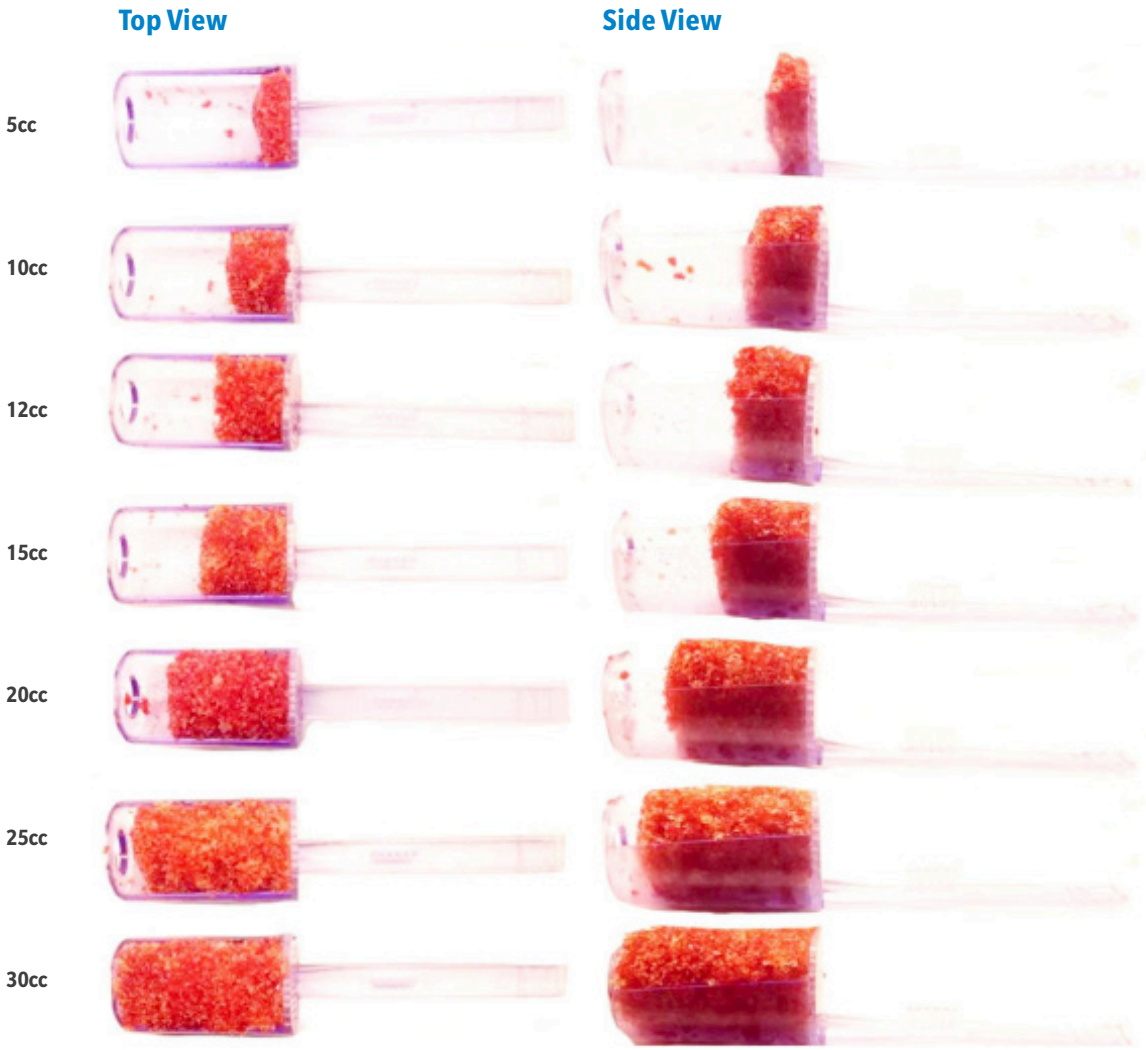
Resected Surface Debridement



TTC Revision Debridement

Estimating Specimen Volume

When the Filter Insert is removed from the Handle of the Debrider, specimen volume can be estimated in the Bone Receptacle as follows:



Specimen Retrieval

Remove the Cap

Hold the Debrider horizontally over the Collection Cup and unscrew the Cap. Clean off any contents stuck to the Cap.

NOTE: Take care to stop the Filter Insert from sliding out of the handle at this point.

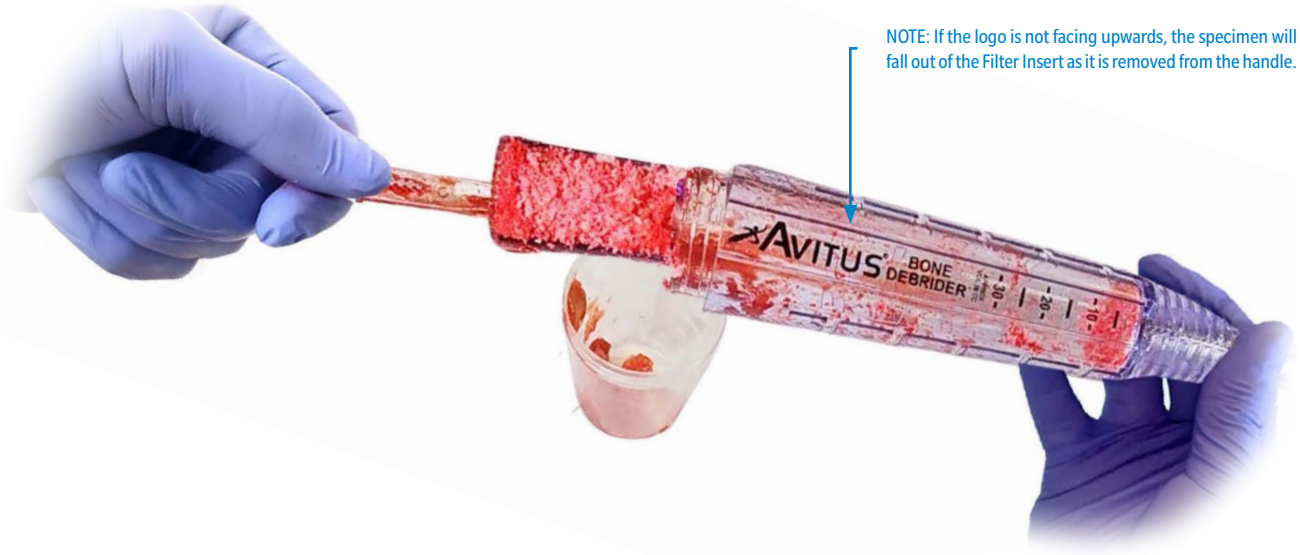


Clean Cap before resuming debridement

Remove the Filter Insert

Ensure that the handle is held horizontally with the logo facing upwards. Carefully remove the Filter Insert.

NOTE: If the logo is not facing upwards, the specimen will fall out of the Filter Insert as it is removed from the handle.



Specimen Retrieval

Retrieve Bone from the Filter Insert Receptacle





Use the rounded end of the Plunger accessory (included) to remove the specimen from the Filter Insert receptacle into the specimen cup. Take care to retrieve every chunk.

Specimen Retrieval

Retrieve Remaining Debridement Contents from the Debrider Handle

Use the Spatula accessory (Fig. 1) to remove any remaining debridement contents from the Debrider handle.

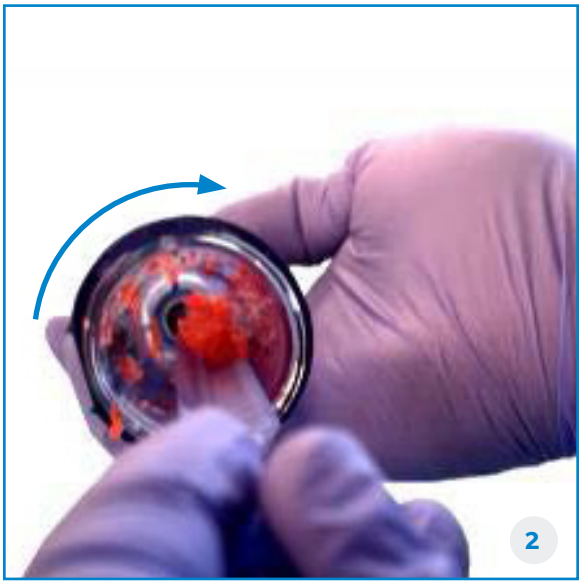
Insert the Spatula into the Debrider handle and press gently against the wall while rotating the Debrider handle to scrape any remaining cancellous graft into the Spatula (Fig. 2).



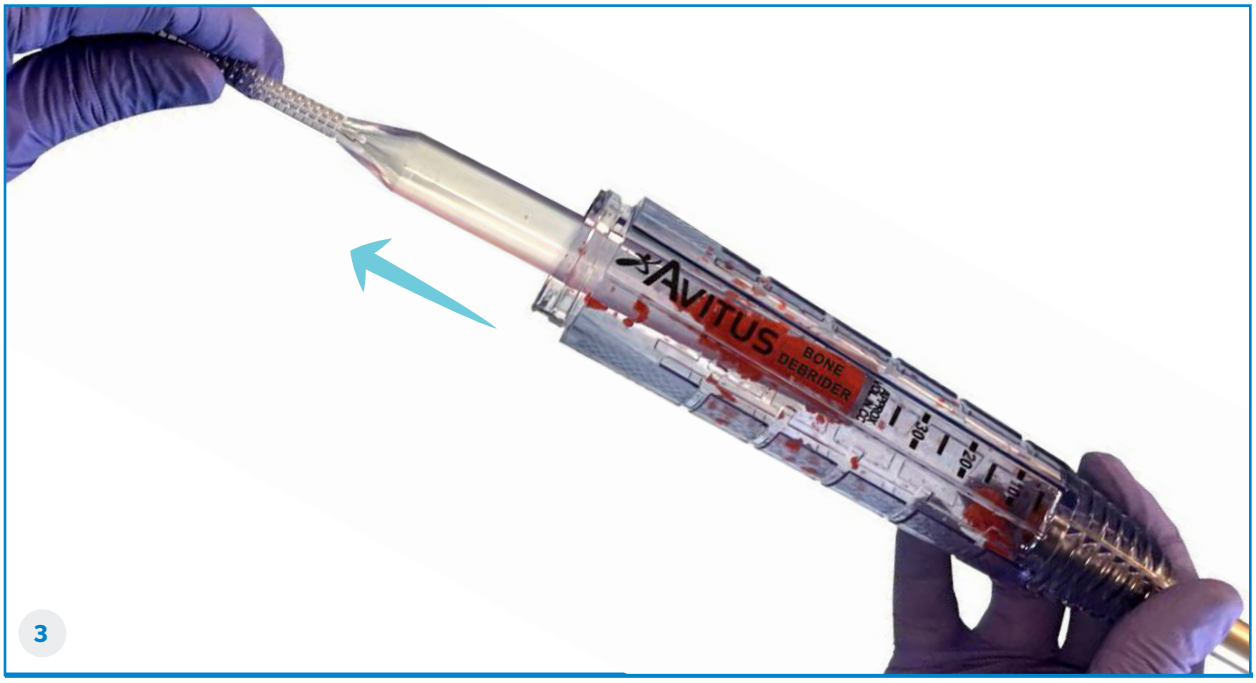
1

NOTE: Spatula accessory included in kit.

Applying gentle pressure against the flat side of the Debrider handle, drag the Spatula out of the handle to retrieve the remaining cancellous bone (Fig.3).



2



3

Device Re-Assembly

Re-Insert the Filter Insert

Orientation

Hold the Filter Insert with the rectangular opening of the receptacle facing upward. Similarly, hold the Debrider with the Avitus logo facing upwards.



Insertion

Insert the Filter Insert into the handle of the Debrider until the Filter Insert sits flush at the bottom of the handle.

NOTE: The Filter Insert will not sit flush against the bottom of the Debrider handle if the orientation shown below is not followed.



Device Re-Assembly

Screw on the Cap & Attach Suction

Screw On Cap

Screw on the Cap and tighten until the flat sides of the Cap and Handle align.

Connect Suction Tube

Attach a standard suction tube (6-10mm) to the barbed nozzle of the Cap. Ensure that the suction tube is connected to a waste canister and suction source (HIGH/MAX setting is recommended). Check the cutting tip of the metal shaft to confirm that suction is active.





Troubleshooting

De-clogging

If the cutting tip of the Debrider gets clogged with cancellous bone, follow these steps:

1. Confirm that the suction tube forms an air-tight connection with the barbed nozzle and that the suction source is powered on high.

2. Perform several additional cutting strokes to allow the Debrider to de-clog itself.

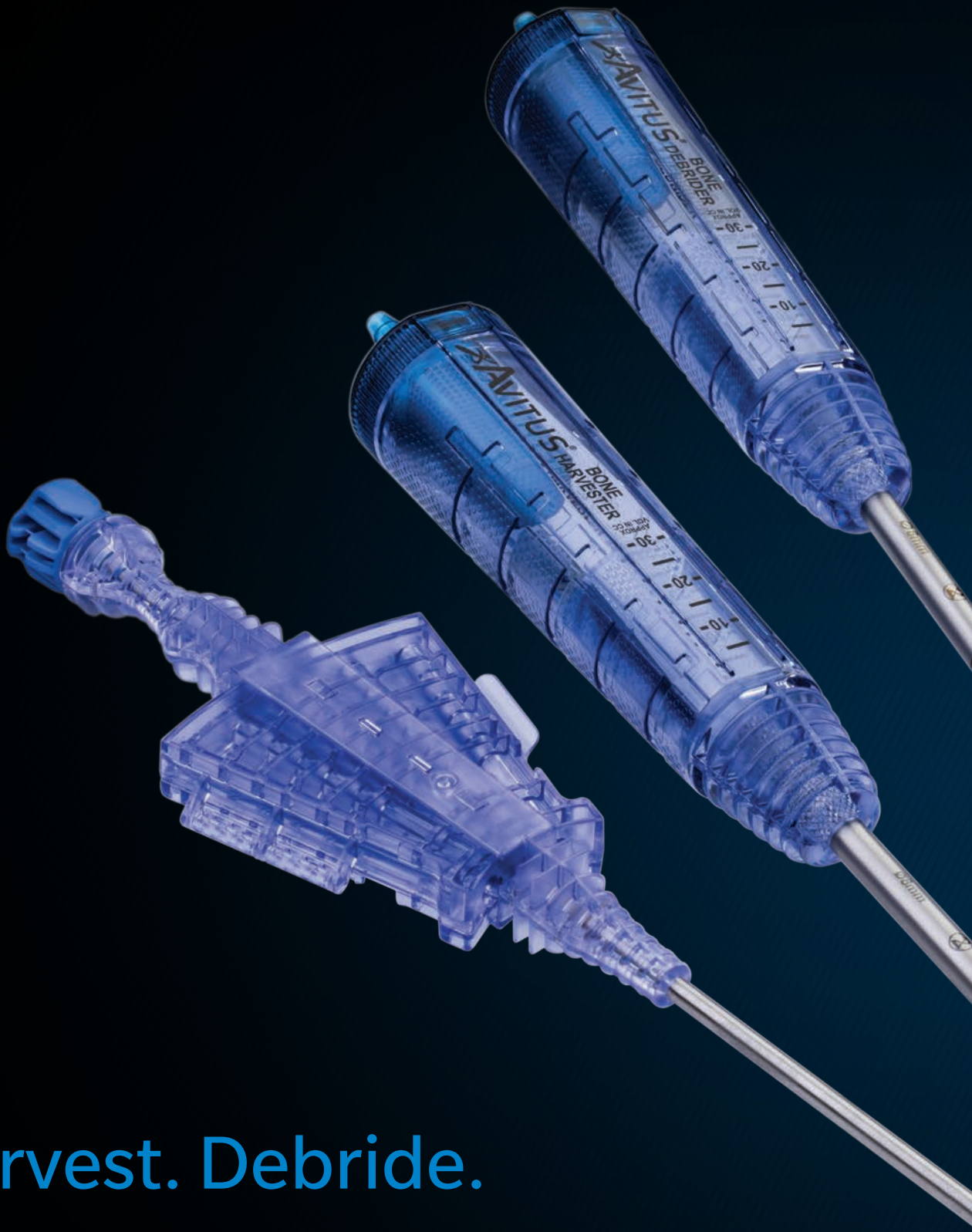
If the cutting tip is still clogged, use the Plunger accessory as shown above. Holding the Plunger by the thumb holder, hook the L of the Plunger into the Debrider opening and follow the curve of the Debrider to de-clog and resume debridement.



Ordering Information



Part #	Description	Size
BH-330	**Avitus® Bone Debrider** - Ø8mm, 255mm length. Sterile, disposable surgical device for debridement of bone such as osteomyelitis, bone infection, prosthetic joint infection etc. Closed capture system™ for specimen collection of contaminated tissue.	8mm (Shaft Diameter) 255mm (Shaft Working Length)



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