



Explant™ Acetabular Cup Removal System

Surgical Technique



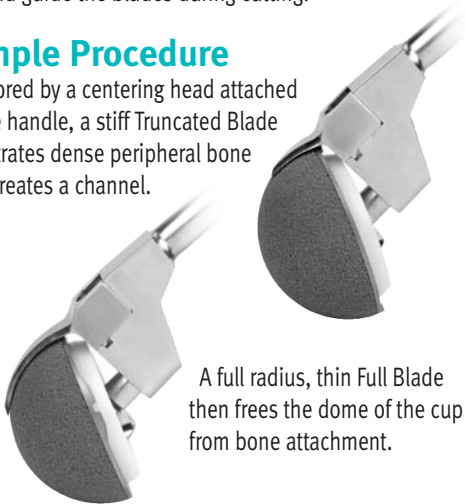
Minimizing acetabular bone loss

Minimizes Acetabular Bone Loss

- Controlled bone dissection at the bone-cup interface helps minimize bone loss during revision surgery.
- Two blade styles for each cup size facilitate progressive removal of the cup.
- Blades closely match acetabular cup OD to preserve bone stock.
- Centering heads, which match acetabular cup ID, help stabilize and guide the blades during cutting.

Simple Procedure

Anchored by a centering head attached to the handle, a stiff Truncated Blade penetrates dense peripheral bone and creates a channel.



A full radius, thin Full Blade then frees the dome of the cup from bone attachment.

2 Assemble Blades

Thread the selected Pivot Heads onto each of the two handles. Ensure the head is threaded down tightly on the handle to prevent loosening during impaction.

Slide the selected Truncated Blade and corresponding Full Blade over the bolt on each handle. Use the Torque Wrench with the hex adapter to secure the blade to the handle. Tighten until the Torque Wrench releases. This will ensure that the blade is fully locked in place.

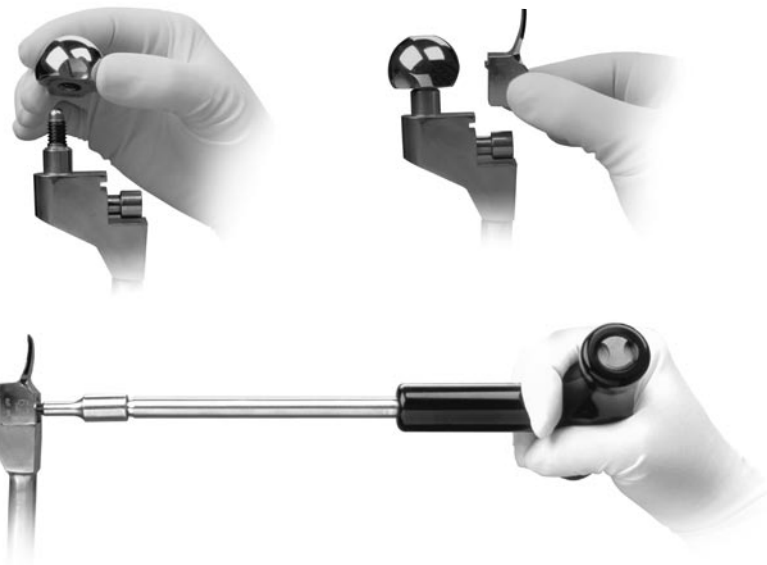
Note: The handle bolt is captured. Only loosen the bolt with the torque wrench and hex adaptor. The bolt only needs to be loosened until the blade is free. Do not continue to unscrew the bolt as it may become separated from handle.

Warning: Do not attempt to unscrew the Pivot Head from the handle when the blade is still attached. The sides of the blade are sharp and caution should be used. Instead, remove the blades prior to the Pivot Head removal.

1 Select Instrument Size

Determine the size of acetabular cup to be removed by determining its outside and inside diameters. Select the blade based on the outside diameter (OD) of the cup and the Pivot Head based on the inside diameter (ID).

Note: If the OD is in between the available blade sizes, select the next largest size. Alternatively, if the ID is in between the available Pivot Head sizes, select the next smallest size.

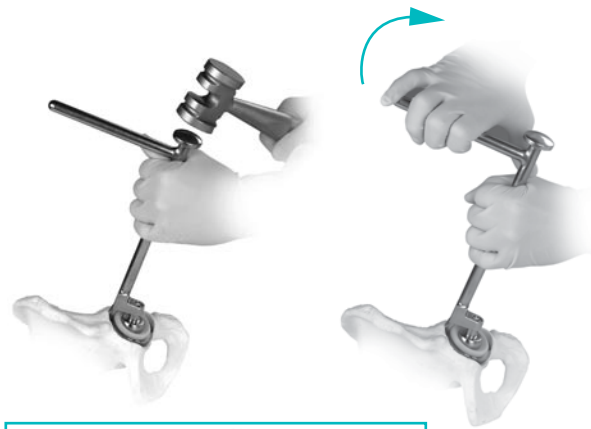


3 Initiate Cup Removal

Assess location of screws and remove them to ensure no interference with the *Explant* blades. Also, ensure soft tissue is cleared from the face of the cup.

Use the Truncated Blade to initiate cup removal. This shorter, stiffer blade is designed to penetrate the denser peripheral bone around the cup. Place the Pivot Head within the cup ID to guide the blade around the cup. Use the Ball Impactor, if required, to secure the handle within the cup. Using a technique of impaction and axial rotation, initiate a channel around the cup periphery. If the bone near the rim is sclerotic and the Truncated Blade is not advancing, the *Explant* instrument can be removed and preparation initiated with a straight osteotome.

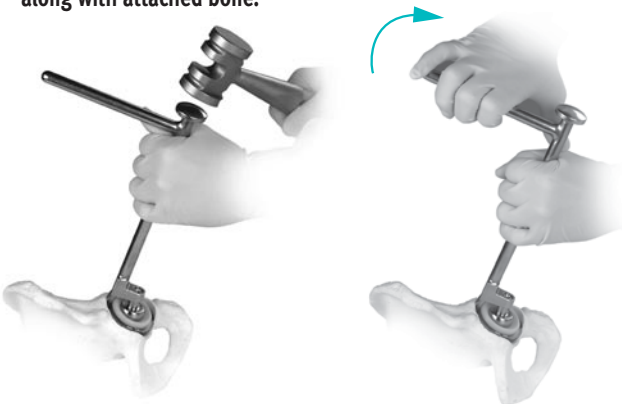
Note: If the cup liner is damaged, or if the cup has an offset liner preventing proper centering of the osteotome, remove the liner and use a provisional insert.



4 Finalize Cup Removal

Use the Full Blade to finalize the cup removal. This longer, thinner blade is designed to reach toward the dome of the cup. Repeat the technique described for the Truncated Blade. Avoid applying too much force using the thin blade.

Warning: Should the blade bend and impinge upon the cup itself, excess torque could lever the cup out of the acetabulum along with attached bone.



5 Blade Disposal

After the cup has been explanted, it is recommended that the short and long *Explant* blades used in surgery be discarded. Wear and/or other damage that may occur during the cup removal can compromise the blades' cutting ability.

Warning: The *Explant* blades are extremely sharp. Caution must be used in handling throughout the surgical procedure and subsequent disposal of the blades.



Order Information

Instrumentation*

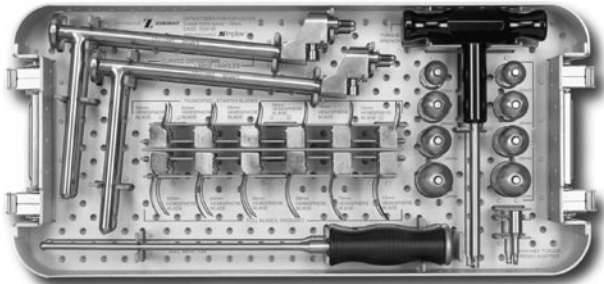
Prod. No.	Description	Qty.
00-7000-020-00	Shell Removal Instrument Set – Small	
00-7050-096-00	Small Osteotome Instrument Case	1
00-7053-001-00	Torque Wrench	1
00-7053-002-00	Torque Wrench Adapter, Hex 3.5mm	1
00-7053-003-01	Curved Osteotome, Small Handle	2
00-7053-042-10	Truncated Blade, 42mm Hemisphere	1
00-7053-044-10	Truncated Blade, 44mm Hemisphere	1
00-7053-046-10	Truncated Blade, 46mm Hemisphere	1
00-7053-048-10	Truncated Blade, 48mm Hemisphere	1
00-7053-050-10	Truncated Blade, 50mm Hemisphere	1
00-7053-042-20	Full Blade, 42mm Hemisphere	1
00-7053-044-20	Full Blade, 44mm Hemisphere	1
00-7053-046-20	Full Blade, 46mm Hemisphere	1
00-7053-048-20	Full Blade, 48mm Hemisphere	1
00-7053-050-20	Full Blade, 50mm Hemisphere	1
00-7053-022-00	Osteotome Pivot Head, 22mm	2
00-7053-026-00	Osteotome Pivot Head, 26mm	2
00-7053-028-00	Osteotome Pivot Head, 28mm	2
00-7053-032-00	Osteotome Pivot Head, 32mm	2
00-7000-019-00	Shell Removal Instrument Set – Medium	
00-7050-097-00	Medium Osteotome Instrument Case	1
00-7053-001-00	Torque Wrench	1
00-7053-002-00	Torque Wrench Adapter, Hex 3.5mm	1
00-7053-003-00	Curved Osteotome, Medium Handle	2
00-7053-052-10	Truncated Blade, 52mm Hemisphere	1
00-7053-054-10	Truncated Blade, 54mm Hemisphere	1
00-7053-056-10	Truncated Blade, 56mm Hemisphere	1
00-7053-058-10	Truncated Blade, 58mm Hemisphere	1
00-7053-060-10	Truncated Blade, 60mm Hemisphere	1
00-7053-052-20	Full Blade, 52mm Hemisphere	1
00-7053-054-20	Full Blade, 54mm Hemisphere	1
00-7053-056-20	Full Blade, 56mm Hemisphere	1
00-7053-058-20	Full Blade, 58mm Hemisphere	1
00-7053-060-20	Full Blade, 60mm Hemisphere	1
00-7053-022-00	Osteotome Pivot Head, 22mm	2
00-7053-026-00	Osteotome Pivot Head, 26mm	2
00-7053-028-00	Osteotome Pivot Head, 28mm	2
00-7053-032-00	Osteotome Pivot Head, 32mm	2

Prod. No.	Description	Qty.
00-7000-021-00	Shell Removal Instrument Set – Large	
00-7050-098-00	Large Osteotome Instrument Case	1
00-7053-001-00	Torque Wrench	1
00-7053-002-00	Torque Wrench Adapter, Hex 3.5mm	1
00-7053-003-02	Curved Osteotome, Large Handle	2
00-7053-062-10	Truncated Blade, 62mm Hemisphere	1
00-7053-064-10	Truncated Blade, 64mm Hemisphere	1
00-7053-066-10	Truncated Blade, 66mm Hemisphere	1
00-7053-068-10	Truncated Blade, 68mm Hemisphere	1
00-7053-070-10	Truncated Blade, 70mm Hemisphere	1
00-7053-072-10	Truncated Blade, 72mm Hemisphere	1
00-7053-062-20	Full Blade, 62mm Hemisphere	1
00-7053-064-20	Full Blade, 64mm Hemisphere	1
00-7053-066-20	Full Blade, 66mm Hemisphere	1
00-7053-068-20	Full Blade, 68mm Hemisphere	1
00-7053-070-20	Full Blade, 70mm Hemisphere	1
00-7053-072-20	Full Blade, 72mm Hemisphere	1
00-7053-022-00	Osteotome Pivot Head, 22mm	2
00-7053-026-00	Osteotome Pivot Head, 26mm	2
00-7053-028-00	Osteotome Pivot Head, 28mm	2
00-7053-032-00	Osteotome Pivot Head, 32mm	2

00-7053-004-00 Ball Impactor (Optional)



* Blade sizing refers to the outside diameter of the cup being removed. For example, use Prod. Nos. 00-7053-050-10 (Truncated Blade) and 00-7053-050-20 (Full Blade) for a 50mm cup.



00-7001-021-00—Large Set

Contact your Zimmer representative or visit us at www.zimmer.com

