

ADM X3[®] Mobile Bearing Hip[™] System Surgical Protocol

Available with X3 Advanced
Bearing Technology

For Use With Restoration ADM
Cups and Inserts



ADM X3 Mobile Bearing Hip System Surgical Protocol

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Indications

The indications for use of total hip replacement prostheses include:

- Non-inflammatory degenerative joint disease including osteoarthritis and avascular necrosis
- Rheumatoid arthritis
- Correction of functional deformity
- Revision procedures where other treatments or devices have failed
- Treatment of non-union, femoral neck and trochanteric fractures of the proximal femur with head involvement that are unmanageable using other techniques
- Dislocation risks

This acetabular cup is intended for cementless use only.

Contraindications

- Overt infection
- Distant foci of infections (which may cause hematogenous spread to the implant site)
- Rapid disease progression as manifested by joint destruction or bone resorption apparent on roentgenogram
- Skeletally immature patients
- Cases where there is a loss of abductor musculature, poor bone stock, or poor skin coverage around the hip joint which would make the procedure unjustifiable

Conditions presenting increased risk of failure include:

- Uncooperative patient or patient with neurologic disorders, incapable of following instructions
- Osteoporosis
- Metabolic disorders which may impair bone formation
- Osteomalacia
- Obesity

Warnings and Precautions

See package insert for warnings, precautions, adverse effects and other essential product information.

The Restoration ADM cup is intended for use with the Restoration ADM insert only. It is not intended for use as a metal-on-metal articulation. No testing has been conducted to determine that this bearing couple produces favorable mechanical outcomes. Only Stryker 28mm femoral heads should be inserted into the ADM inserts. Further, Stryker strongly advises against the use of another manufacturer's component with Restoration ADM. Any such use will negate the responsibility of Stryker for the performance of the resulting mixed component implant.

Before using Restoration ADM instrumentation, verify:

- Instruments have been properly dis-assembled prior to cleaning and sterilization
- Instruments have been properly assembled post-sterilization
- Instruments have maintained design integrity
- Proper size configurations are available
- Restoration ADM instruments are only compatible with Restoration ADM implants

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Introduction

This surgical protocol is a guide to preparing the acetabulum for the Restoration ADM acetabular implants utilizing Restoration ADM acetabular instruments and CuttingEdge acetabular reamers.

The Restoration ADM acetabular system is a two-piece component design that is assembled intra-operatively. Restoration ADM acetabular cups have a peripheral self-locking (PSL) build-up at the rim that provides a 1.5mm press-fit. Reaming is performed line-to-line with the press-fit incorporated into the final implant (e.g., 52mm cup = 53.5mm periphery at the rim of the cup). Restoration ADM cups are available in left and right configurations ranging in sizes 46mm – 64mm OD, which are coupled with polyethylene inserts ranging in sizes 40mm – 58mm OD. There is a 6mm difference between the cup and insert. Inserts are available in 0°, 28mm ID only.

Note: The Restoration ADM acetabular system must be utilized with CuttingEdge acetabular reamers. Preparation of the acetabulum is required and spherical reaming is necessary to implant Restoration ADM cups.

Restoration ADM Cup (OD/mm)	Restoration ADM Insert (OD/mm)	Insert Thickness (mm)	Head Diameter (mm)*
46**	40**	5.9	28
48	42	6.9	28
50	44	7.9	28
52	46	8.9	28
54	48	9.9	28
56	50	10.9	28
58	52	11.9	28
60	54	12.9	28
62	56	13.9	28
64	58	14.9	28

*Restoration ADM inserts are available in a 28mm inner diameter only, accepting all Stryker 28mm femoral heads.

** Available only in X3.

Design Rationale

The Restoration ADM design is derived from a dual mobility cup concept which has over 30 years of successful clinical history. These results have shown decreased dislocations and increased implant stability.¹

Restoration ADM features an anatomic cup design that incorporates a notch at the anterior portion of the cup to help avoid contact with the iliopsoas tendon. This anterior notch reduces the risk of cup and iliopsoas tendon impingement which helps to eliminate the occurrence of pain. Pain has been experienced in mal-positioned/protrusive hemispherical cups.⁴ Restoration ADM may also offer the potential for reducing the incidence of femoral neck impingement which may lead to metallosis and potential construct failure.²

The Restoration ADM cup incorporates the following dual points of articulation:

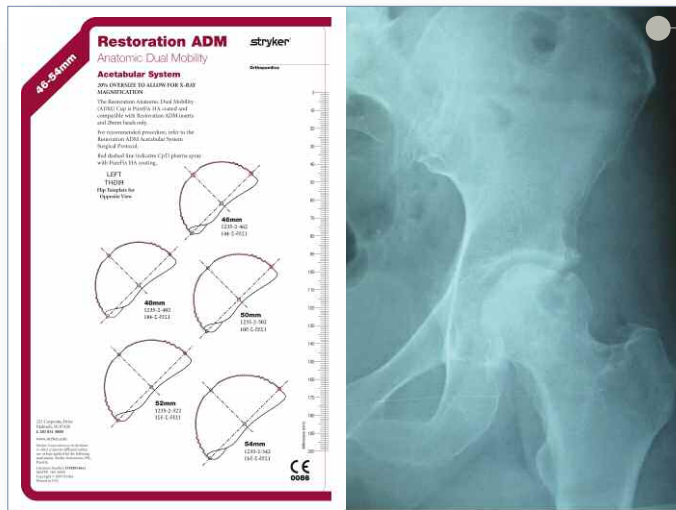
- 28mm femoral head and
- Large polyethylene insert that mimicks a femoral head.

This insert provides increased range of motion and greater stability.³ The polyethylene insert, also referred to as the “effective head”, is available in large sizes that provide increased jump distance in an effort to minimize hip dislocation.

This publication sets forth detailed recommended procedures for using Stryker Orthopaedics devices and instruments. It offers guidance that you should heed, but, as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required.

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Step 1: Pre-operative Planning and X-ray Evaluation

- ▶ Pre-operative planning and X-ray evaluation aids in the selection of the most favorable implant style and optimal size for the patient's hip pathology. Selecting potential implant styles and sizes can facilitate operating room preparation and assure availability of an appropriate size selection.
- ▶ X-ray evaluation may also help detect anatomic anomalies that could prevent the intra-operative achievement of the established pre-operative goals.

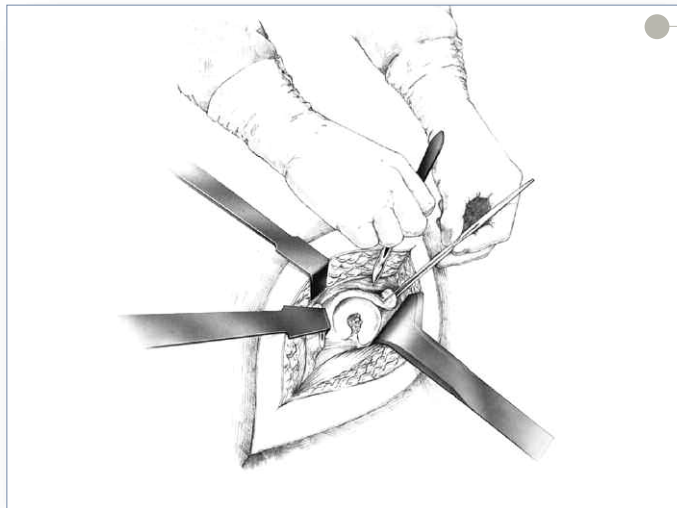


Figure 1

Step 2: Acetabular Preparation

- ▶ The acetabulum is prepared by the release and removal of soft tissue using the surgeon's preferred technique to gain adequate exposure for reaming. Excision of the labrum and osteophytes allows for proper visualization of the bony anatomy, and improves ease of reaming.

Note: Careful identification and removal of osteophytes can help reduce the possibility of bone-to-bone or component-to-bone impingement.

- ▶ Stryker Orthopaedics' Femoral and Wing Retractors can be utilized to gain acetabular exposure (**Figure 1**). With the acetabulum exposed, bony defects can be identified. If necessary, bone grafting options may be considered prior to reaming.



Figure 2

Step 3: Spherical Reaming

Caution: Only the CuttingEdge Spherical Reamer should be used to prepare the acetabulum for Restoration ADM components.

- ▶ To obtain congruity in the reaming process, a 45°/20° Abduction/Anteversion Alignment Guide can be attached to the CuttingEdge Reamer Handle (**Figure 2**).

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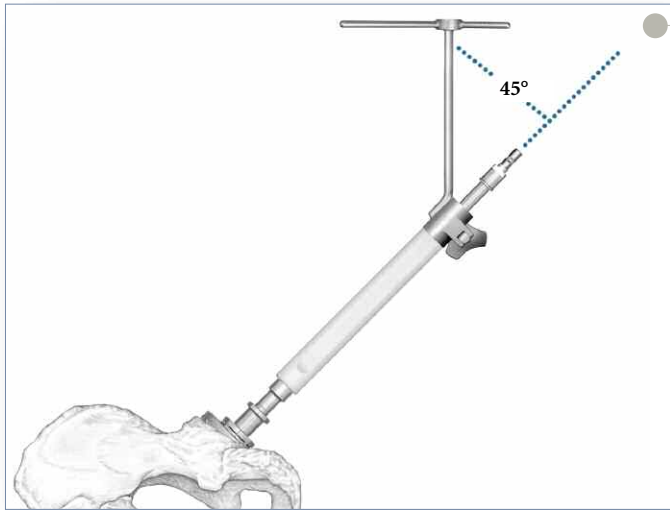


Figure 3

- ▶ The alignment guide, when perpendicular to the long axis of the patient, will orient the reamer handle at 45° of abduction, thereby placing the axis of the spherical reamer at 45° of inclination (**Figure 3**). The reamer handle may be positioned at 20° of anteversion by aligning the left/right anteversion rod on the alignment guide so that it is parallel to the long axis of the patient.

Caution: All external alignment guides depend on the patient being oriented in a lateral decubitus position.

Note: Changes in pelvic tilt and pelvic flexion caused by patient positioning on the table as well as disease in the contralateral hip, spine and pelvis may impact a surgeon's ability to achieve component placement at 45°/20° abduction/anteversion.

- ▶ It is recommended that the initial reaming begin with a CuttingEdge Spherical Reamer that is 4mm smaller than the templated or gauged size. The reamer is attached to the reamer handle by pushing down and applying a quarter-turn to lock in place. Reaming progresses in 1mm increments until final sizing is achieved. Ream line-to-line for the Restoration ADM Cup.
- ▶ The Restoration ADM Cup periphery is 1.5mm larger than the stated size (e.g., 52mm cup = 53.5mm at the rim of the cup). The size of the Restoration ADM Cup selected should be the same as the largest diameter of the CuttingEdge Spherical Reamer used.

Surgical judgment is used to assess bone stock, amount of interference, and proper amount of under-reaming. When implanting the Restoration ADM Cup, 1.5mm of interference fit is not always necessary when dense, hard, sclerotic bone is encountered. In this situation it is recommended to over-ream by 1mm, thus leading to an interference fit of 0.5mm. This may reduce the potential for problems that typically occur in dense bone such as acetabular fracture or failure to fully seat the implant.

Note: The amount of interference fit should be determined intra-operatively based upon the patient's bone quality.

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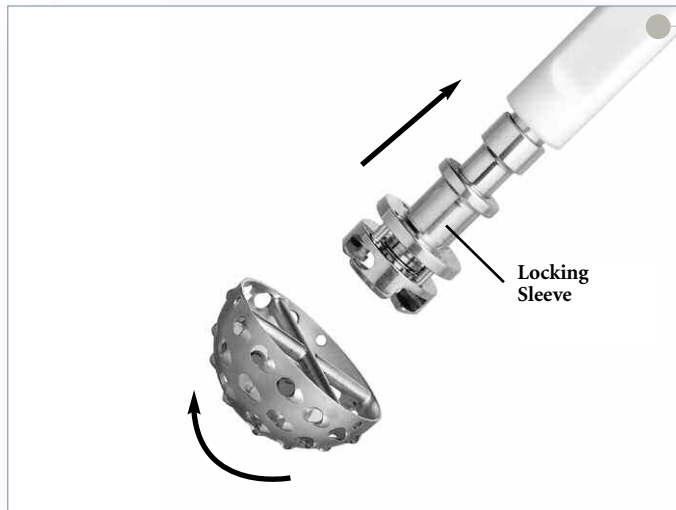


Figure 4

- ▶ The full profile of the CuttingEdge Spherical Reamer necessitates reaming to the full depth. The reamer head should be driven to the point where the rim/cross bar contacts the acetabular wall at the peripheral lunate region. Removal of the reamer from the handle is performed by pulling back on the locking sleeve and rotating the reamer head a quarter-turn in a clockwise direction (Figure 4).
- ▶ Care should be taken so as not to enlarge or distort the acetabulum by eccentric reaming. Ream to the unicortical plate to medialize the cup. Ream to the full depth of the CuttingEdge Spherical Reamer to seat the reamer in the socket.

Note: Restoration ADM acetabular cups contain a 1.5mm peripheral press-fit built into the cup as marked (e.g., 52mm cup = 53.5mm).

Note: The CuttingEdge Spherical Reamers are very aggressive and perform best when sharp. Care should be taken to protect the reamer from unnecessary handling, as dull or damaged cutting teeth may cause improper reaming. Dull cutting teeth will deflect to cut softer bone and resist hard bone. This situation may result in an irregularly shaped or enlarged acetabulum preparation.

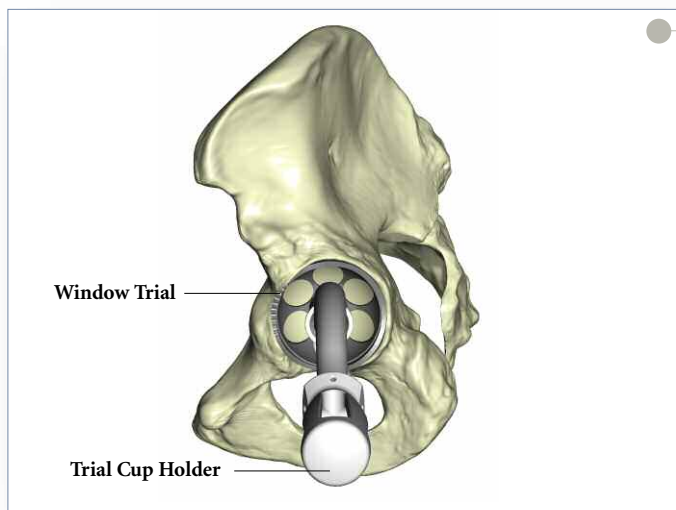


Figure 5

Step 4: Trial Evaluation of the Restoration ADM Cup

- ▶ Following the reaming procedure, the appropriate Restoration ADM Window Trial of the same diameter as the last spherical reamer used, either left or right, is locked onto the Restoration ADM Trial Cup Holder. This is done by pulling the locking mechanism and releasing it after the window trial is set. The window trial is then placed in the acetabulum to evaluate the size and congruity of the preparation (Figure 5). The trial is “windowed” for visualization and assessment of fit, contact and congruency of the trial within the acetabulum.
- ▶ The Restoration ADM Window Trial has an exact fit into the acetabulum (size for size), whereas the final implant has a press-fit of 1.5mm.

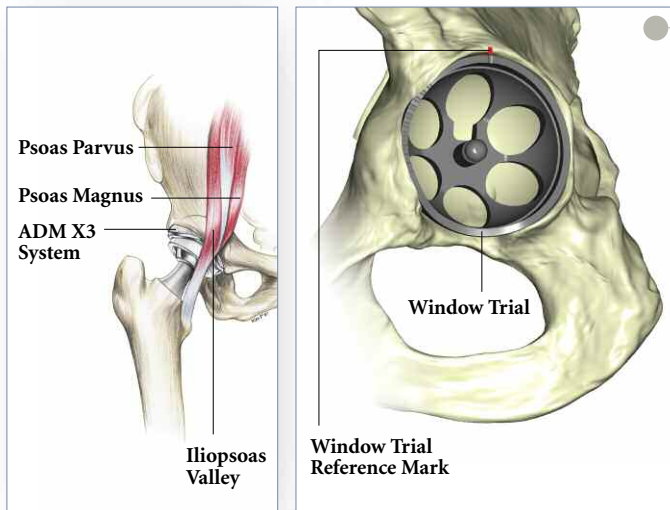


Figure 6

Important: The design of the cup enables it to anatomically fit into the shape of the natural acetabulum, preventing impingement with the iliopsoas tendon. The Restoration ADM Window Trial incorporates grooves that must be positioned in regard to the iliopsoas tendon. Once the window trial is set, it is recommended to make a mark on the acetabulum at the level of the superior reference mark (**Figure 6**). This reference mark will provide a guideline for placing the final implant. The Restoration ADM implant should be positioned so that the superior mark on the cup is aligned with the mark on the acetabulum.

Note: A mark or series of marks can be made at the rim of the window trial to provide a depth reference for seating the implant.

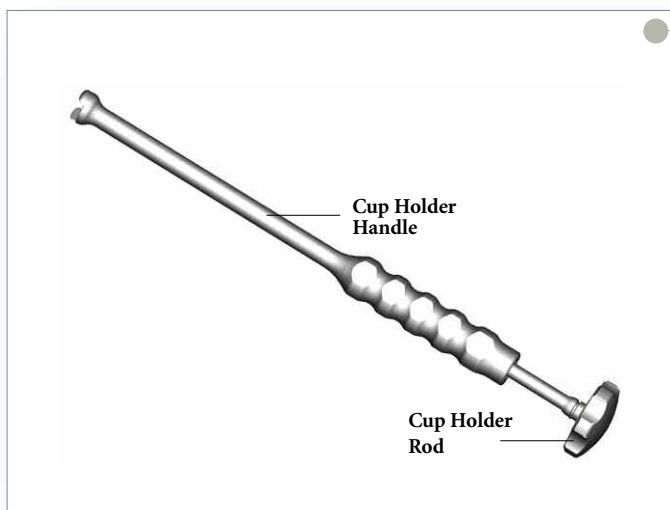


Figure 7

Step 5: Restoration ADM Cup Implantation

- ▶ Assess acetabulum and surrounding soft tissue prior to cup introduction to ensure nothing is preventing cup implantation.
- ▶ Select the appropriately sized, left or right, Restoration ADM cup as clearly identified on the product label. Ensure the patient is in the correct position. At this step it is prudent to re-assess patient positioning in the surgical field.
- ▶ To facilitate the insertion of the cup, the Restoration ADM Cup Holder must be assembled as detailed below. For each cup diameter (48mm – 64mm) there is a corresponding expandable coupler.

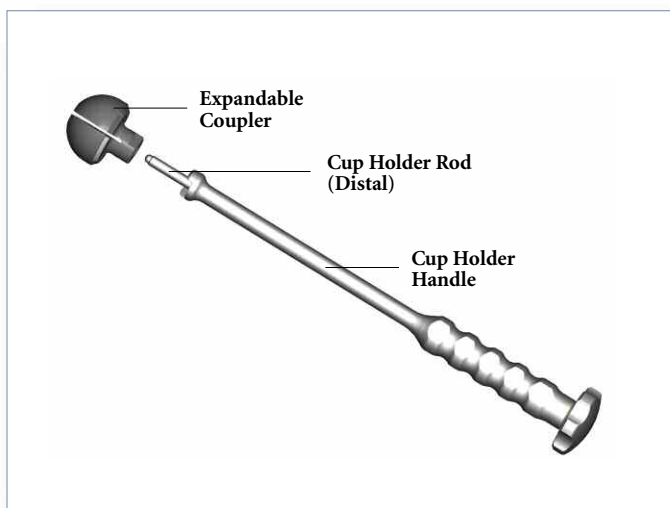


Figure 8

Cup Impactor Assembly: First, insert the Cup Holder Rod into the proximal end of the Cup Holder Handle, snapping the two components together (**Figure 7**). Then, assemble the Expandable Coupler, corresponding to the size of the cup to be implanted, onto the distal portion of the Cup Holder Rod (**Figure 8**). Once the Expandable Coupler is placed onto the Cup Holder Rod, insert the wing nut through the top of the Expandable Coupler (**Figure 9**). To engage the wing nut and to ensure that all components are securely assembled, turn the cup holder rod clockwise (holding it vertically).

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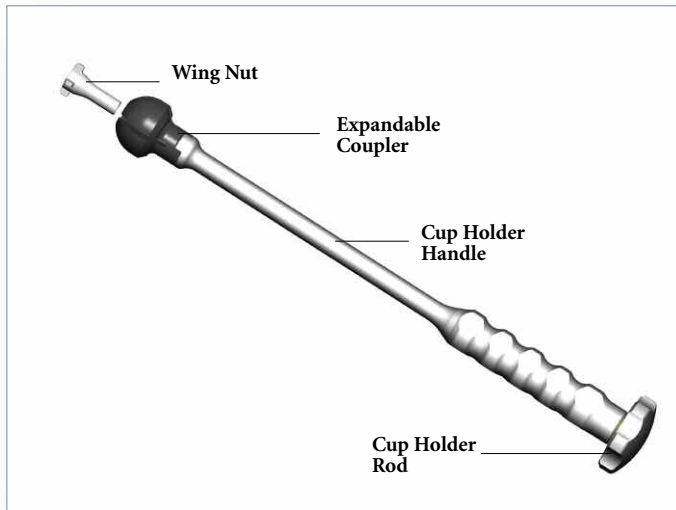


Figure 9

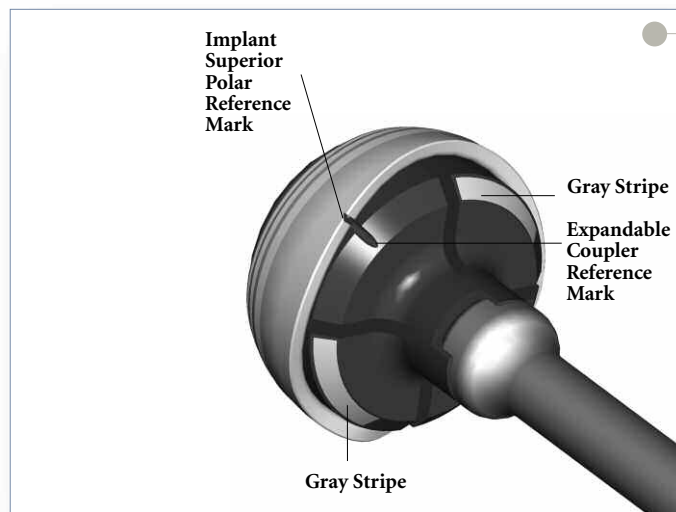


Figure 10

Step 5: Restoration ADM Cup Implantation (Continued)

Note: When securing all components, be sure to only turn the Cup Holder Rod several turns—just enough to lock all components together. Turning the Cup Holder Rod too much or until tightened will expand the coupler prematurely, preventing it from properly fitting onto the implant when preparing for implantation.

Notice that the Expandable Coupler has a reference mark (that lines up with the axis of the handle) that corresponds to the superior reference mark on the implant. The gray stripes engraved on either side of the reference mark on the Expandable Coupler indicate the position of the cup notch (right or left) for the iliopsoas tendon (Figure 10).

► While the implant is still in the packaging, place the Cup Holder vertically into it, making certain to align the cup and the Expandable Coupler reference marks for proper Cup Holder/implant orientation and fit (Figure 10). While maintaining the position of the cup, turn the Cup Holder handle to tighten the cup onto the end of the Cup Holder and prepare it for placement into the acetabulum.

Note: The Expandable Coupler must be fully seated within the implant before tightening. Fully seating the Expandable Coupler can be achieved by pressing it vertically into the cup, while placed on a table. When fully seated, begin tightening the Expandable Coupler onto the cup for a secure fit. Following these instructions will help reduce the risk of the cup and Expandable Coupler/Cup Holder from disengaging during impaction.

► **Cup Placement:** Locate the reference mark made previously on the acetabulum. Position the cup according to the preset reference mark. Positioning the cup according to the preset reference mark will ensure proper anatomic cup placement. Impact the cup into the acetabulum (Figure 11). Once the cup is securely impacted, remove the cup holder from the cup by turning the cup holder rod counter-clockwise and pulling the cup holder backwards with minimal force.

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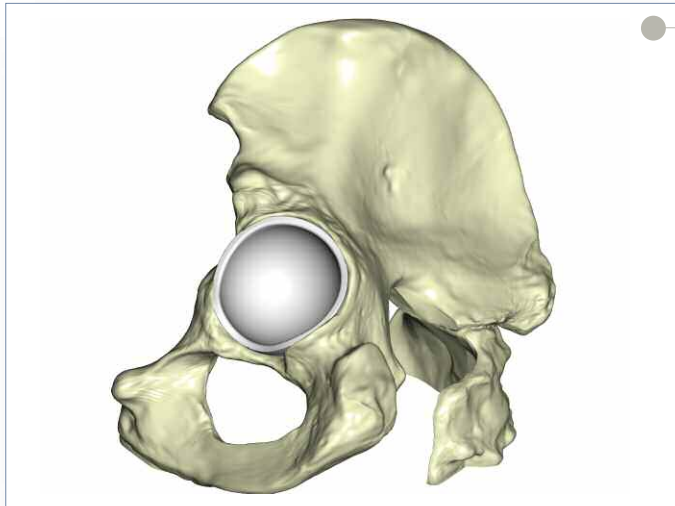


Figure 11

Caution must be taken when using this instrument to avoid compromising the initial stability of the cup.

This instrument has a limited life expectancy, deformation is expected and should be checked before each use. The Rim Impactor tip must be changed if deformation or cracks are visible. Periodic replacement is required.

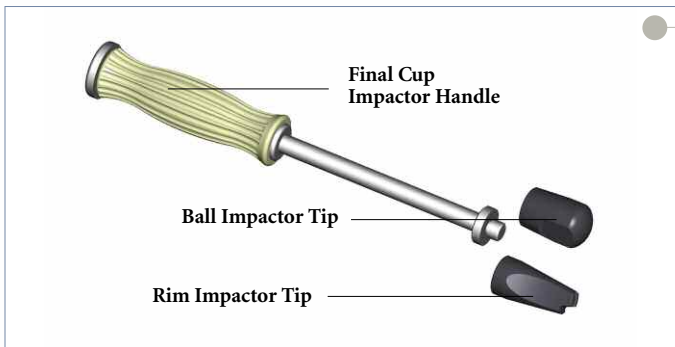


Figure 12a

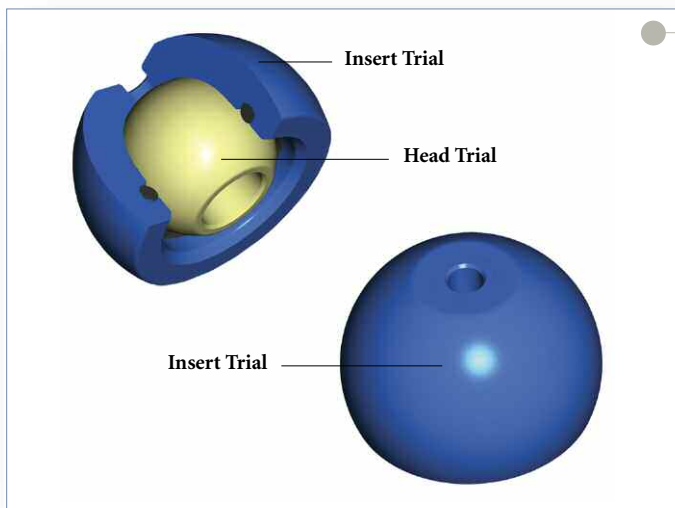


Figure 12b

Important: If re-impaction is required, be sure to use the same Expandable Coupler size as the final implant. Do not use a smaller Expandable Coupler size than the final implant as this will compromise the integrity of the coupler, and may cause it to break. When re-impacting the cup, the coupler must be contracted and then fully expanded in the cup prior to re-impaction. A Ball Impactor (1235-0-013)* can be used as a final option. However, care must be taken to protect the inner surface of the cup.

Note: Proper positioning of the Restoration ADM Cup will minimize potential impingement and help provide optimal stability and articulation between the cup, insert and head. As with any acetabular system, excessive vertical orientation and/or anteversion of the cup should be avoided as this may lead to premature wear of the components' surfaces.

To aid in proper cup positioning, a Rim Impactor (1235-0-014)* can be used to adjust version of the cup by impacting only on the rim.

Please note that the Ball and Rim Impactor tips need to be assembled onto the Final Cup Impactor Handle (2101-0130) which comes pre-assembled with a blunt tip. Please unscrew the tip in order to assemble the Rim or Ball Impactor tips (Figure 12a).

The Cup Impactor must be dis-assembled and placed into the appropriate spots in the tray to ensure proper cleaning and sterilization. After cleaning, thread lubrication is recommended.

2101-0130 - Final Cup Impactor Handle

1235-0-013 - Ball Impactor Tip

1235-0-014 - Rim Impactor Tip

Step 6: Insert/Head Trial Reduction

- ▶ After metal cup implantation, the Restoration ADM Insert Trial and Head Trial will facilitate a final check of hip mechanics to include range of motion consistent with the patient's normal daily activities. At this point joint laxity should also be assessed, taking into consideration the type of anesthetic used and its effects on soft tissue.
- ▶ Place the 28mm Head Trial into the appropriate Insert Trial to mimic the final articulation function of the Restoration ADM System (Figure 12b). The size of the insert trial will correspond with the cup being implanted. When implanting a 48mm shell for instance, a 48mm Insert Trial (28/48) and 28mm Head Trial should be used. Place the insert/head trial unit onto the stem trunnion component and reduce the hip, checking for hip stability and the restoration of leg length. Fine tuning of Hip Joint Mechanics may be achieved with the use of +/- offset trial heads.

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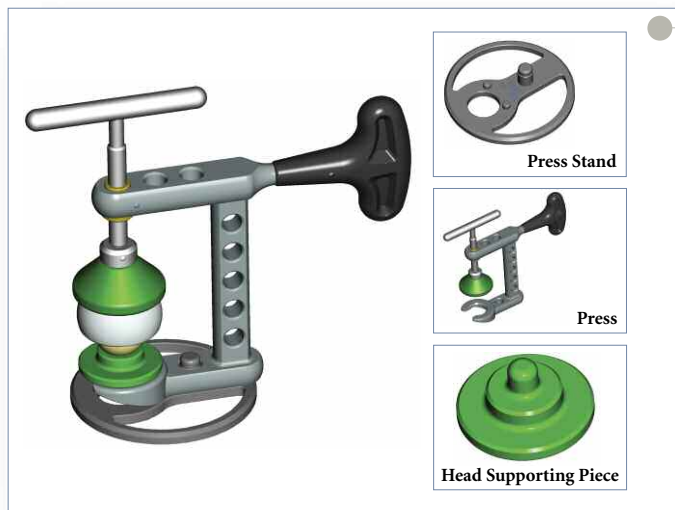


Figure 13

Step 7: Insert/Head Implantation

Back table assembly of the Insert and corresponding V40 or C-Taper 28mm Head is required. (Figure 13)

The following instructions must be carefully adhered to:

- ▶ Place the Press Stand flat on the back table and place the Press onto the Press Stand Pin.
- ▶ Put the Femoral Head Supporting Piece into the base of the Press.
- ▶ Open the press by turning the T-handle counter-clockwise until the polyethylene insert fits above the femoral head and below the plastic cone portion of the press.
- ▶ Place the Femoral Head onto the Head Supporting Piece, and then place Insert onto the Femoral Head.
- ▶ Once the Femoral Head and polyethylene insert are in a vertical position, tighten the Press until the head is fully lodged into the insert. After insertion, the air confined between the head and insert is usually released, resulting in a characteristic noise.
- ▶ After the head and insert are assembled, verify that the coupling has complete mobility.

Note: Ensure that the inside of the shell is clean and free of soft tissue or other debris, which could prevent the insert from properly seating in the shell.

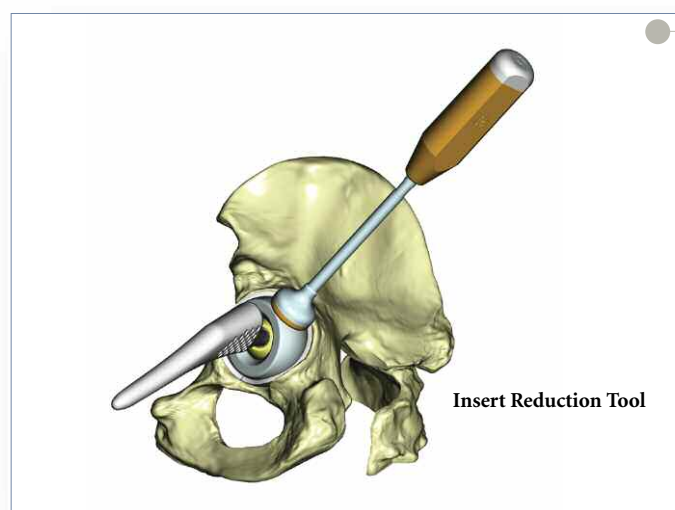


Figure 14

Step 8: Reduction and Closure

- ▶ Once the Insert and Head are assembled, the unit is ready for implantation and reduction.
- ▶ Place insert/head unit onto the trunnion of the femoral stem and slightly impact with insert reduction tool.
- ▶ Then, by exerting axial traction on the limb and pressure on the insert using the insert reduction tool (Figure 14), reduce the hip and check for laxity and range of motion. The surgical site is then closed according to surgeon preference.

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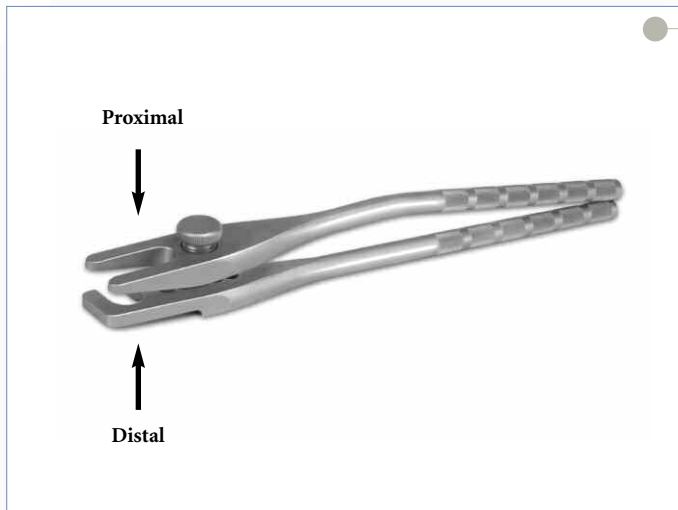


Figure 15

Removal of Cup

Should removal of the metal cup become necessary, an osteotome or small burr can be passed around the cup periphery to loosen the fixation interface.

Removal of Insert and Head Unit

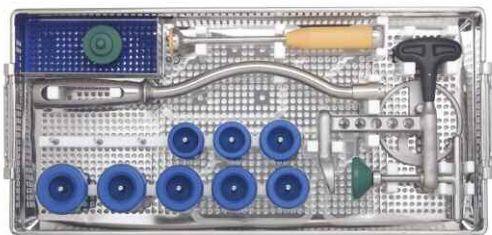
Note: Once the insert and femoral head are assembled, the two components cannot be dis-assembled. However, the assembled insert and femoral head unit can be removed from the trunnion of the stem.

If the Restoration ADM insert and head unit needs to be revised for any reason, remove the insert and head unit with the Femoral Head Remover Instrument (6059-9-505 - **Figure 15**).

- ▶ Place distal portion of the femoral head remover instrument over the neck of the stem, while placing the proximal portion of the instrument under the insert and head unit.
- ▶ Once the instrument is in position, squeeze the handles together to pry the insert and head unit off of the trunnion of the stem.

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Catalog Information

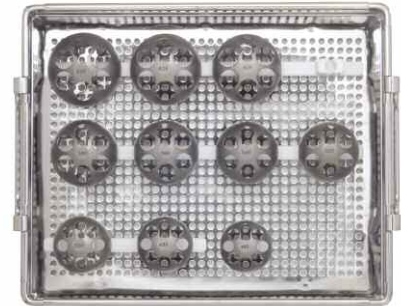
Restoration ADM General Instrument Tray

Catalog #	Part Description
1235-0-300	General Instrument Tray
1235-0-846	Restoration ADM Insert Trial 28/46mm
1235-0-848	Restoration ADM Insert Trial 28/48mm
1235-0-850	Restoration ADM Insert Trial 28/50mm
1235-0-852	Restoration ADM Insert Trial 28/52mm
1235-0-854	Restoration ADM Insert Trial 28/54mm
1235-0-856	Restoration ADM Insert Trial 28/56mm
1235-0-858	Restoration ADM Insert Trial 28/58mm
1235-0-860	Restoration ADM Insert Trial 28/60mm
1235-0-862	Restoration ADM Insert Trial 28/62mm
1235-0-864	Restoration ADM Insert Trial 28/64mm
1235-0-000	Trial Cup Holder
1235-0-020	Insert Reduction Tool
1235-0-008	Press
1235-0-012	Press Stand
1235-0-009	Head Supporting Piece

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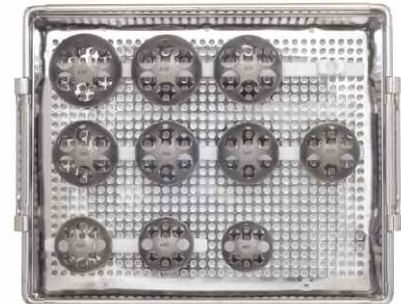
Restoration ADM Right Instrument Tray

Catalog #	Part Description
1235-0-301	Restoration ADM Right Cup Instrument Tray
1235-0-461	Restoration ADM Window Trial Right 46mm
1235-0-481	Restoration ADM Window Trial Right 48mm
1235-0-501	Restoration ADM Window Trial Right 50mm
1235-0-521	Restoration ADM Window Trial Right 52mm
1235-0-541	Restoration ADM Window Trial Right 54mm
1235-0-561	Restoration ADM Window Trial Right 56mm
1235-0-581	Restoration ADM Window Trial Right 58mm
1235-0-601	Restoration ADM Window Trial Right 60mm
1235-0-621	Restoration ADM Window Trial Right 62mm
1235-0-641	Restoration ADM Window Trial Right 64mm



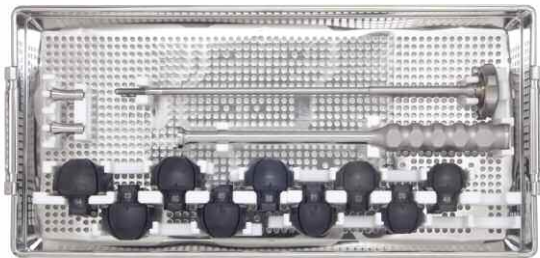
Restoration ADM Left Instrument Tray

Catalog #	Part Description
1235-0-302	Restoration ADM Left Cup Instrument Tray
1235-0-462	Restoration ADM Window Trial Left 46mm
1235-0-482	Restoration ADM Window Trial Left 48mm
1235-0-502	Restoration ADM Window Trial Left 50mm
1235-0-522	Restoration ADM Window Trial Left 52mm
1235-0-542	Restoration ADM Window Trial Left 54mm
1235-0-562	Restoration ADM Window Trial Left 56mm
1235-0-582	Restoration ADM Window Trial Left 58mm
1235-0-602	Restoration ADM Window Trial Left 60mm
1235-0-622	Restoration ADM Window Trial Left 62mm
1235-0-642	Restoration ADM Window Trial Left 64mm

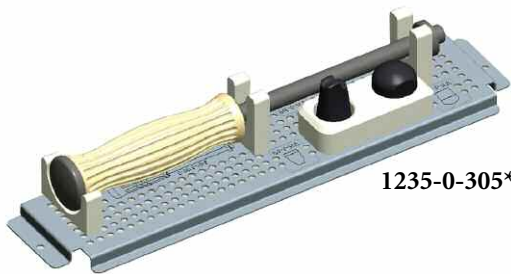


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1235-0-303A



1235-0-305*

* Please note that the Impaction Set Tray (1235-0-303A) has space for an additional tray (1235-0-305) to hold the Final Cup Impactor Handle along with the Rim and Ball Impactor tips.

Optional Instruments

Catalog #	Part Description
2101-0130	Final Cup Impactor Handle
1235-0-013	Ball Impactor Tip
1235-0-014	Rim Impactor Tip

* Please note that the Ball and Rim Impactor tips need to be assembled onto the Final Cup Impactor Handle (2101-0130) which comes pre-assembled with a blunt tip. Please unscrew the tip in order to assemble the Rim or Ball Impactor tips.

Catalog Information

Restoration ADM Impaction Instrument Tray

Catalog #	Part Description
1235-0-303A*	Impaction Set Tray
1235-0-305*	Restoration ADM Additional Fixture for Impaction Set Tray
1235-4-465	46mm Expandable Coupler
1235-4-485	48mm Expandable Coupler
1235-4-505	50mm Expandable Coupler
1235-4-525	52mm Expandable Coupler
1235-4-545	54mm Expandable Coupler
1235-4-565	56mm Expandable Coupler
1235-4-585	58mm Expandable Coupler
1235-4-605	60mm Expandable Coupler
1235-4-625	62mm Expandable Coupler
1235-4-645	64mm Expandable Coupler
1235-0-003	Straight Cup Holder Handle
1235-0-006A	Nut For Straight Cup Holder
1235-0-007	Rod For Straight Cup Holder

CuttingEdge Acetabular Reamers

(Must be used to implant Restoration ADM)

Catalog #	Part Description
2402-0007	Acetabular Reamer Tray
2402-0090	Acetabular Reamer Tray Lid
2102-0444	44mm Acetabular Reamer
2102-0445	45mm Acetabular Reamer
2102-0446	46mm Acetabular Reamer
2102-0447	47mm Acetabular Reamer
2102-0448	48mm Acetabular Reamer
2102-0449	49mm Acetabular Reamer
2102-0450	50mm Acetabular Reamer
2102-0451	51mm Acetabular Reamer
2102-0452	52mm Acetabular Reamer
2102-0453	53mm Acetabular Reamer
2102-0454	54mm Acetabular Reamer
2102-0455	55mm Acetabular Reamer
2102-0456	56mm Acetabular Reamer
2102-0457	57mm Acetabular Reamer
2102-0458	58mm Acetabular Reamer
2102-0459	59mm Acetabular Reamer
2102-0460	60mm Acetabular Reamer
2102-0461	61mm Acetabular Reamer
2102-0462	62mm Acetabular Reamer
2102-0463	63mm Acetabular Reamer
2102-0464	64mm Acetabular Reamer
2102-0465	65mm Acetabular Reamer

Surgical Protocol

Restoration ADM Cup Implants

Catalog #	Part Description
1235-2-461	Restoration ADM Cup Right 46mm
1235-2-481	Restoration ADM Cup Right 48mm
1235-2-501	Restoration ADM Cup Right 50mm
1235-2-521	Restoration ADM Cup Right 52mm
1235-2-541	Restoration ADM Cup Right 54mm
1235-2-561	Restoration ADM Cup Right 56mm
1235-2-581	Restoration ADM Cup Right 58mm
1235-2-601	Restoration ADM Cup Right 60mm
1235-2-621	Restoration ADM Cup Right 62mm
1235-2-641	Restoration ADM Cup Right 64mm
1235-2-462	Restoration ADM Cup Left 46mm
1235-2-482	Restoration ADM Cup Left 48mm
1235-2-502	Restoration ADM Cup Left 50mm
1235-2-522	Restoration ADM Cup Left 52mm
1235-2-542	Restoration ADM Cup Left 54mm
1235-2-562	Restoration ADM Cup Left 56mm
1235-2-582	Restoration ADM Cup Left 58mm
1235-2-602	Restoration ADM Cup Left 60mm
1235-2-622	Restoration ADM Cup Left 62mm
1235-2-642	Restoration ADM Cup Left 64mm

Important: The Restoration ADM cup is intended for use with the Restoration ADM insert only. It is not intended for use with Stryker LFIT Anatomic CoCr heads.

Restoration ADM Insert Implants

X3 Catalog #	Duration Catalog #	Part Description (Insert ID/Cup OD)
1236-2-846	-	Restoration ADM Insert 28/46
1236-2-848	1235-2-848	Restoration ADM Insert 28/48
1236-2-850	1235-2-850	Restoration ADM Insert 28/50
1236-2-852	1235-2-852	Restoration ADM Insert 28/52
1236-2-854	1235-2-854	Restoration ADM Insert 28/54
1236-2-856	1235-2-856	Restoration ADM Insert 28/56
1236-2-858	1235-2-858	Restoration ADM Insert 28/58
1236-2-860	1235-2-860	Restoration ADM Insert 28/60
1236-2-862	1235-2-862	Restoration ADM Insert 28/62
1236-2-864	1235-2-864	Restoration ADM Insert 28/64

Note: Inserts are compatible with Stryker 28mm heads only.

X-Ray Templates

Catalog #	Part Description
LTEM94 Rev.1	Restoration ADM Cups



References:

1. Fessy M.H., "Dual Mobility: A Stéphanois Concept (St. Etienne Area, France)," Maitrise Orthopedique, March 2006.
2. Tracol P., Vandenbussche E., Deloge N., et. al., "Navigation Acetabular Anatomic Study Application in the Development of a New Implant," EFORT Poster, May 2007.
3. Stryker Test Report: RD-06-078.
4. Vandenbussche E., Saffarini M., Deloge N., et. al., "Hemispheric Cups Do Not Reproduce Acetabular Rim Morphology," Acta Orthopaedica 2007. 78 (3), 327-332.

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