

COVISION

ORTHOPAEDICS

HipEx Acetabular Cup System
Surgical Technique



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Introduction

The **HipEx Cup System** is a cementless, pressfit, primary acetabular cup which is to be used in conjunction with a compatible femoral head and a femoral stem component. There are 3 threaded sector holes on the cup surface and a threaded dome hole for accurate insertion and placement of the implant into the acetabulum. There are also small grooves on the periphery that helps to utilize better primary osseointegration.

The periphery of the shell is slightly wider than a hemisphere, providing an increased peripheral press-fit. The geometry of the Hipex Acetabular shell maximizes peripheral bone strains without increasing medial bone strains. The additional grooves on the periphery rim of the shell increases the primary fixation. The rim shape

designed to protect the psoas from irritation and prevent impingement on the edge of the shell. On the inside of the cup, a female taper is designed to engage multiple liner options, while a circumferential locking groove and anti-rotation feature adds additional locking support for the polyethylene liner. The **Hipex Cup System** ranges in size from 38 to 70 mm OD increasing incrementally by 2mm, manufactured from Titanium Alloy. The surface finish options include a high porosity titanium coating and a composite coating of plasma sprayed Hydroxyapatite over the high porosity titanium coating to increase osseointegration between the acetabulum and the implant cup. There is also a 3D EBM (Electron Beam Melting) and a nano Hydroxyapatite over the 3D EBM to ensure secondary osseointegration. 3D EBM structured cup option that mimics the structure of the cancellous bone structure.

Table 1: HipEx Cup System Compatibility Table

	GROUP 0	GROUP 1	GROUP 2	GROUP 3	GROUP 4
HIPEX ACETABULAR CUP INCLUDING 3D POROUS TI PLASMA TI PLASMA+HA OPTIONS	38 mm	42 mm	46 mm	52 mm	60 mm
	40 mm	44 mm	48 mm	54 mm	62 mm
			50 mm	56 mm	64 mm
				58 mm	66 mm
					68 mm
					70 mm
HIPEX PE INSERTS INCLUDING UHMWPE / XL-UHMWPE MATERIAL OPTIONS 0° / 10° / 20° RIB OPTIONS	Ø22	Ø28	Ø28	Ø28	Ø28
				Ø32	Ø32
				Ø36	Ø36
HIPEX BIOLOX DELTA INSERTS		Ø28	Ø32	Ø36	Ø36
HIPEX CONSTRAINED INSERTS		Ø28	Ø28	Ø28	Ø28

Pre-Operative Planning

A pre-operative assessment of the acetabulum is recommended to determine the compatible size and position of the implant. The templates are provided at 115% but 100% magnification or 120% magnification can be provided for compatibility with standard radiographs. The HipEx Cup templates are positioned at 45 degrees

and allow measurement for any hip that is suitable for the HipEx Cup System primary range from 38 - 70mm. The outline of the cup templates represents the porous coated diameter of the Hipex Cup. Templates include compatible head diameters, head centers and other necessary information.

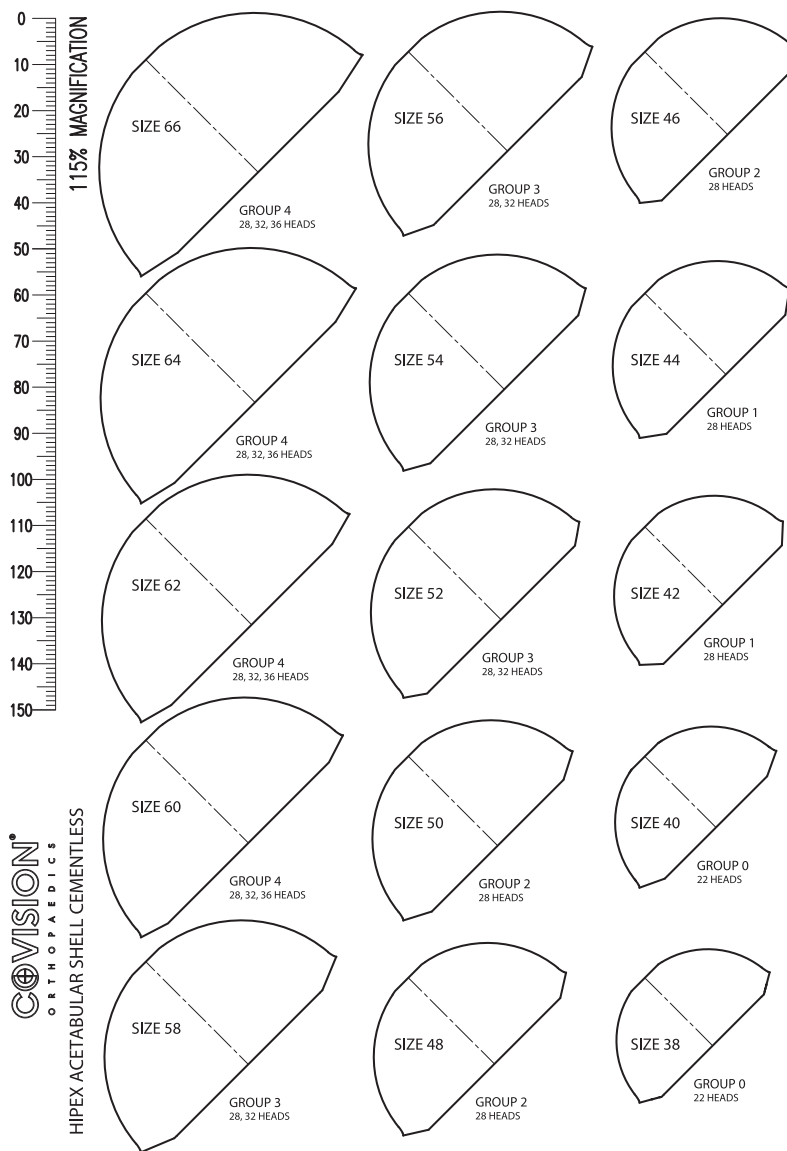


Figure 1: HipEx Cup Acetabular Templating System

To start, position the overlay over A/P radiograph at approximately 45 degrees of abduction against the radiographic teardrop. It is recommended to use a radiographic marker.

Determine the hip rotation center. Determine the size of the acetabular component using the appropriate templates. If the porous coated acetabular cup is positioned close to the medial, the main center of rotation may be slightly different from the center of rotation specified in the template. Place a small mark on the radiograph that is emphasized the center of rotation of the selected porous cup.

The objective is to determine the template that provides the best fit and bony coverage. The largest component that appears suitable is to be chosen.

Note: The final component size is to be determined intra-operatively. Templating is for planning purposes only.



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Surgical Exposure

The approach to the hip is the surgeon's choice; it varies and is influenced to a degree by the pathology present. The HipEx Cup can be inserted with equal ease using posterior, posterolateral, anterolateral, straight lateral or transtrochanteric approach.

Acetabular Reaming



Figure 2: Attach reamer to acetabular reamer quick connect handle

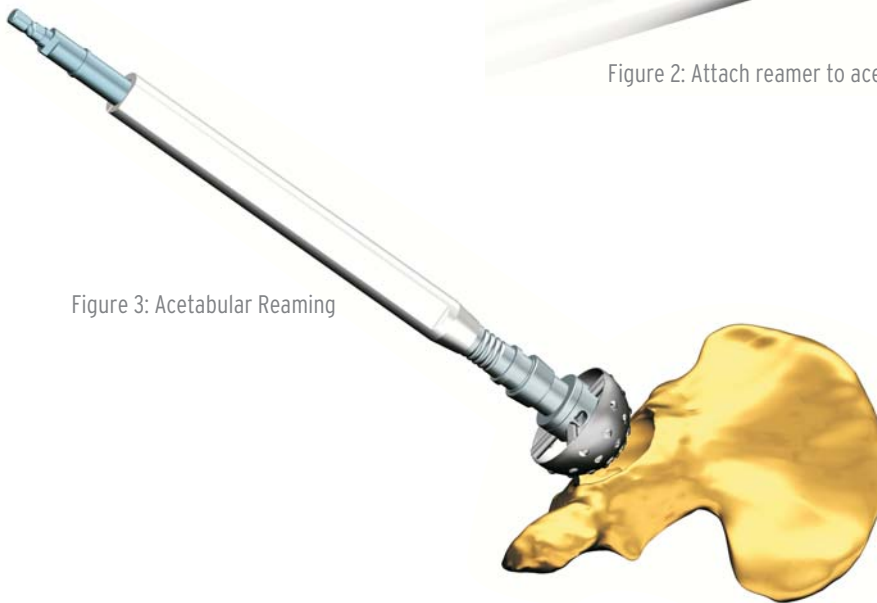


Figure 3: Acetabular Reaming

Note: The acetabular reamer and The Hipex Cup are "True Sizing". For 52 mm Cup Ream to 52 mm for a press-fit connection.

The acetabular reamer and the HipEx Cup are "True Sizing"; for example, a 52 mm cup ream to 52 mm for a press-fit connection. The acetabular reamers are available from 38 mm to 70 mm in 2 mm increments and odd reamer sizes can be also supplied.

Start with a smaller size reamer and progress to the next largest size until exposing cancellous bone. Take care to center the reamer and apply a constant pressure in the recommended final implant orientation of 45 degrees of abduction and 20 degrees of anteversion.



Acetabular Cup Trialling

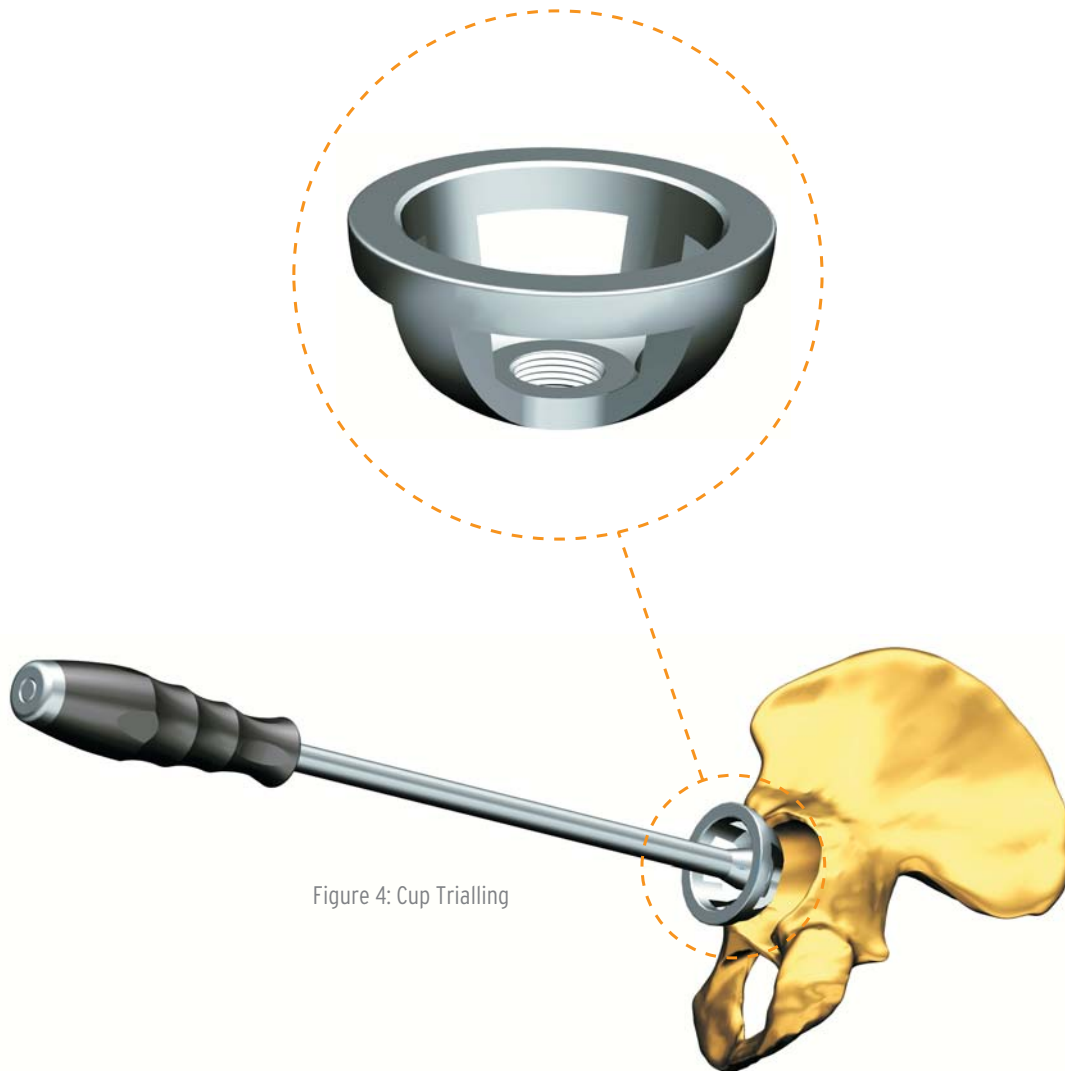


Figure 4: Cup Trialling

Trial cups are available to assess the bone quality of the reamed acetabulum and to determine the appropriate implant size. Trial Cups are undersized from the original cup implant to be able to check only the diameter.

Check that the cup impactor is firmly fixed/locked on the trial cup.

Orientate the trial cup in an anatomic position 45 degrees of abduction and 20 degrees of anteversion and impact the handle. Verify that the trial has properly seated by sighting through the cutouts in the trial and confirm fit.

Note: The trial cup is not to be used with trial liners.



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Acetabular Cup Insertion



Figure 5: Thread cup onto impactor.

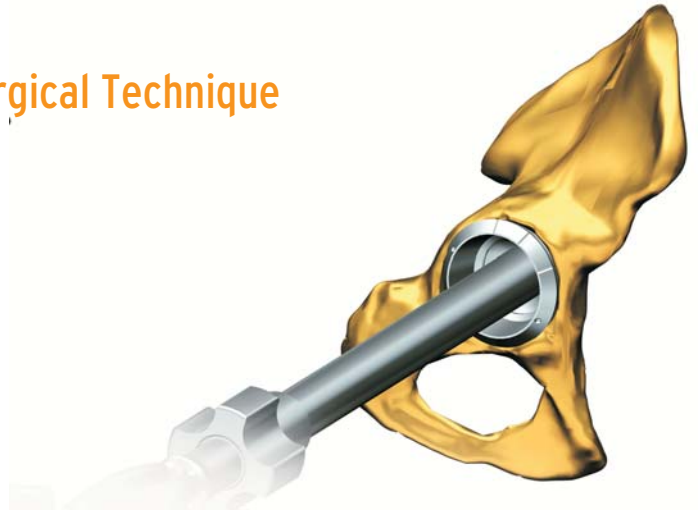


Figure 6: Orientate the cup into the anatomical position.

Secure the cup implant onto the cup impactor by threading the shaft of the impactor into the apical hole of the cup. Ensure that the impactor thread is flush with the internal radius of the cup. Take care when threading cup onto the impactor as excessive force may cause damage to the thread.

impactor until it is securely fit. The alignment tower can be rotated by pulling the lock near to it and then locked once in position.

Assemble the alignment guide onto the cup impactor by inserting the shaft into the alignment tower on the

Orientate the cup in the acetabulum using the alignment guide and bony landmarks. Confirm placement of the cup and impact implant into position.

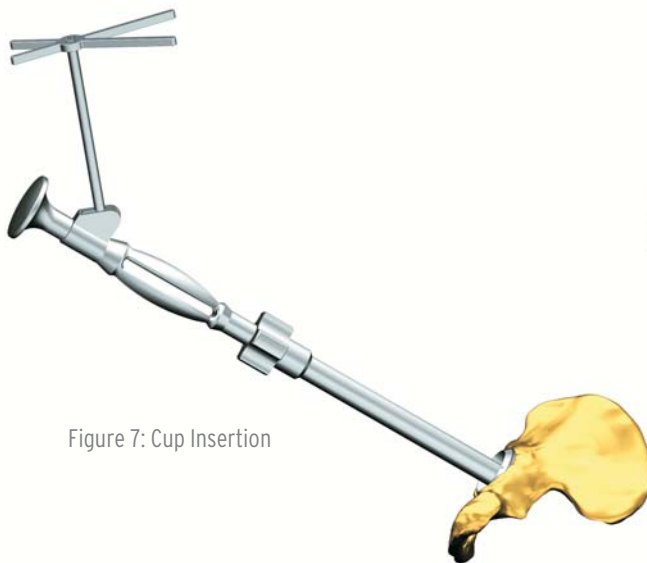


Figure 7: Cup Insertion

Take care when repositioning the cup, do not lever on the impactor or cup as this may cause damage to the internal diameter of the cup and threads.

Acetabular Cup Screw Placement & Fixation

The Hipex Cup is packaged with pre-installed screw-hole covers which can be removed when additional screw fixation is required.

To remove the screw-hole covers from the acetabular cup, attach the 3.5 mm hex screwdriver shaft to the ratchet handle. Unscrew the appropriate screw-hole cover as needed.

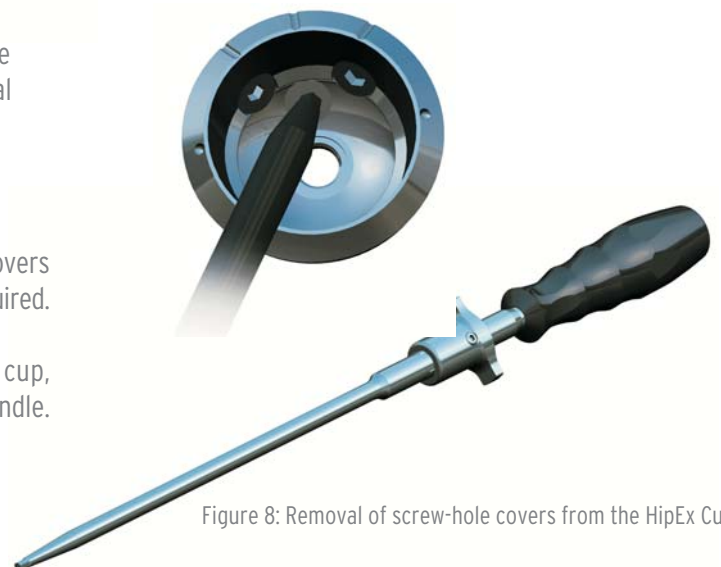


Figure 8: Removal of screw-hole covers from the HipEx Cup

Surgical Technique

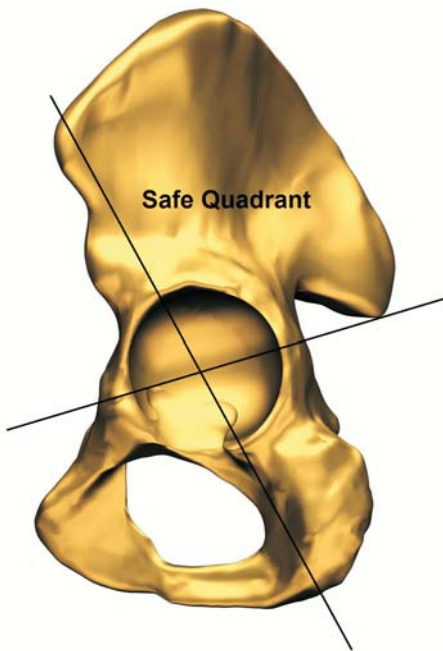


Figure 9: Recommended placement of the bone screw

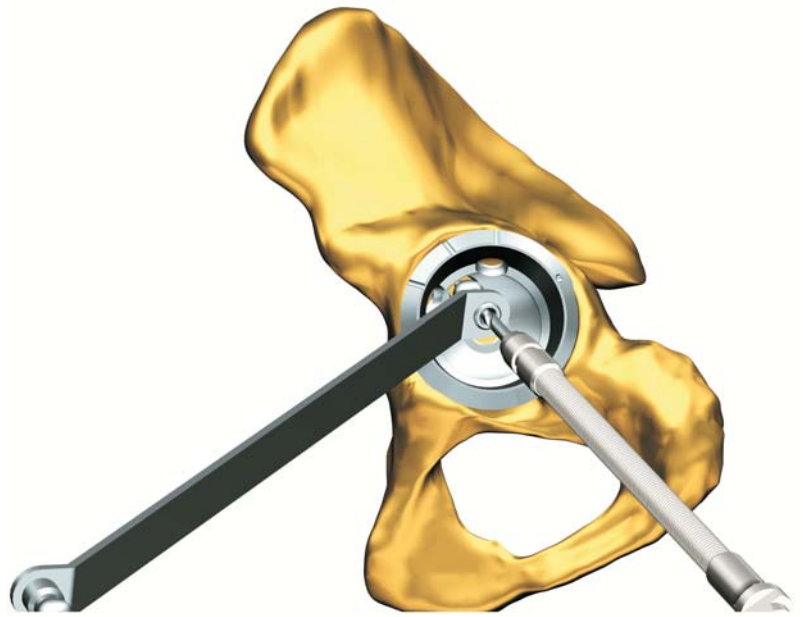


Figure 10: Acetabular screw-hole preparation

To prepare the bone screw for insertion, drill a pilot hole using drill guide, 3.2 mm or 4.0 mm drill and flexible drill shaft. The 3.2 mm and 4.0 mm drill is available in a length of 30 and 40 mm. Ensure that the drill guide is fully

inserted into the screw-hole. Approximately 15 degrees of range of motion is available with the drill guide and bone screws. Ensure that the screw lies within the safe quadrant, refer to the Figure 9.



Figure 11: Verify screw-hole depth



Figure 12: HipEx Cup 6.5 mm cancellous screw

Verify depth of the screw-hole using the depth gauge. Select appropriate length Hipex Cup 6.5 mm cancellous bone screw and while holding the bone screw with the

screw forceps use the 3.5mm hex universal screwdriver shaft with ratchet handle to insert the bone screw into the acetabulum.

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During insertion evaluate the quality of the bone when tightening. After tightening verify that the screw head is below the inner diameter of the cup, incorrect

placement can prevent the liner from seating properly in the acetabular cup.



Figure 13: Bone screw insertion (left), verify proper seating after insertion (right).

Acetabular Cup Trial Liner Evaluation

Provisional acetabular liners are available to trial in the definitive cup implant. The trial liners are not to be used in conjunction with the trial cups as final seating of the

cup implant may vary. The trial liners are available in neutral and lipped in the sizes listed in Table 2.

Table 2: Trial Liner Size Availability



	HEAD DIAMETER				HEAD DIAMETER			
	22 mm	28 mm	32 mm	36 mm	22 mm	28 mm	32 mm	36 mm
GROUP 0	YELLOW				YELLOW			
GROUP 1		RED				RED		
GROUP 2		RED	BLUE			RED	BLUE	
GROUP 3		RED	BLUE	GREEN		RED	BLUE	
GROUP 4		RED	BLUE	GREEN		RED	BLUE	GREEN

Remove any debris from inside of the cup before inserting the trial liner. Insert the trial into the cup implant by hand. Thread the trial liner into the dome hole of the cup implant using a 3.5mm hex driver shaft and ratchet handle until the trial liner bottoms out on the internal cup radius. The liner should be flush with the top surface of the cup implant.

Assess the cup implant stability, position and range of motion with the femoral components. Once the appropriate liner selection has been made, remove the trial liner.

Note: Do not impact the trial liner as damage may occur.



Figure 14: Trial Liner insertion

Surgical Technique

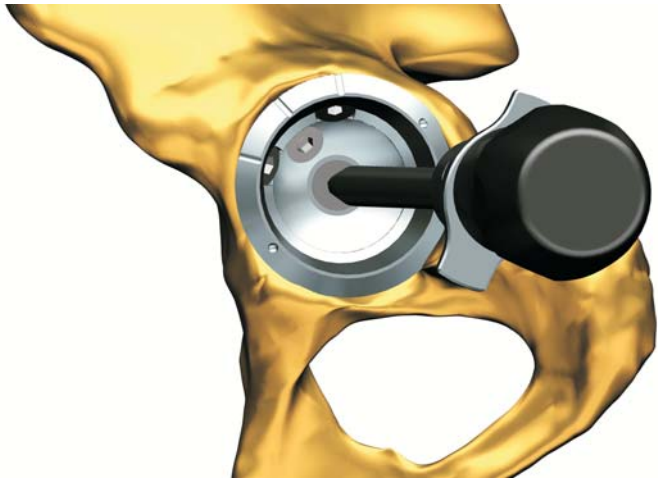


Figure 15: Dome - Hole cover insertion

Acetabular Cup Dome Hole Cover Insertion

Upon completion of the trial evaluation, insert the dome-hole cover into the threaded dome hole of the cup implant using the 3.5mm hex screwdriver shaft and ratchet handle. Use care to ensure that the dome hole cover is not over tightened and that the dome hole cover is below the internal radius of the cup.

Acetabular Liner Insertion

Prior to inserting the acetabular liner into the cup implant, ensure that the internal surfaces of the cup implant are free from debris and are cleaned and dried. Inspect the internal taper of the cup implant and check that all screw-hole covers, dome-hole cover and screw heads are not protruding into the internal radius. It is important to ensure that locking groove and the entire internal surface of the cup implant is free from debris.

Poly Liner Insertion



Figure 16: Depress the suction cup into the poly liner.

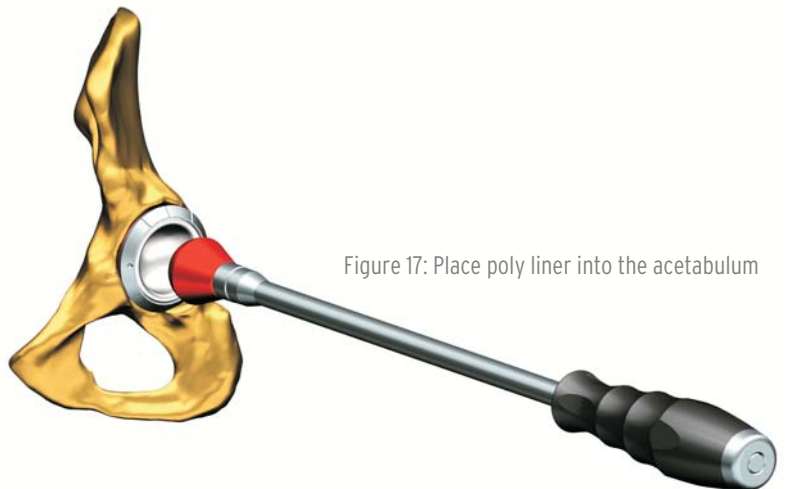


Figure 17: Place poly liner into the acetabulum

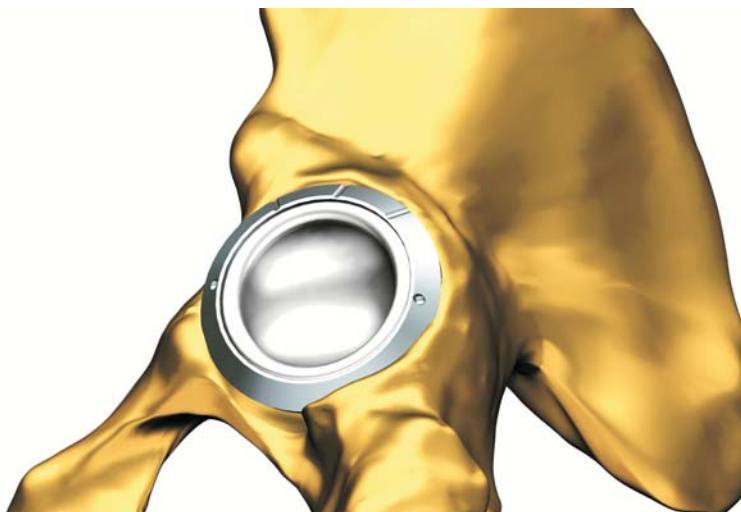


Figure 18: Poly liner insertion.

Place the polyethylene liner into the acetabular cup either by hand or with the trial shell handle instrument. Select appropriate liner impactor adapter that corresponds with the implant liner head size. There are four available liner impactor adapters: 22 mm, 28 mm, 32 mm, 36 mm.

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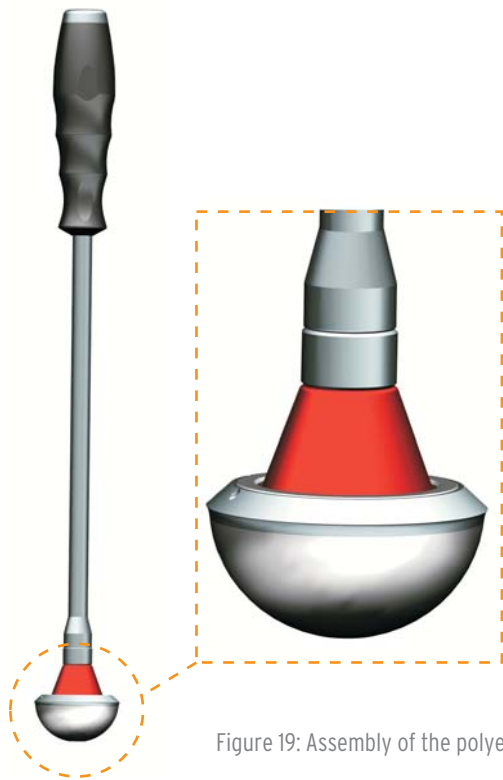
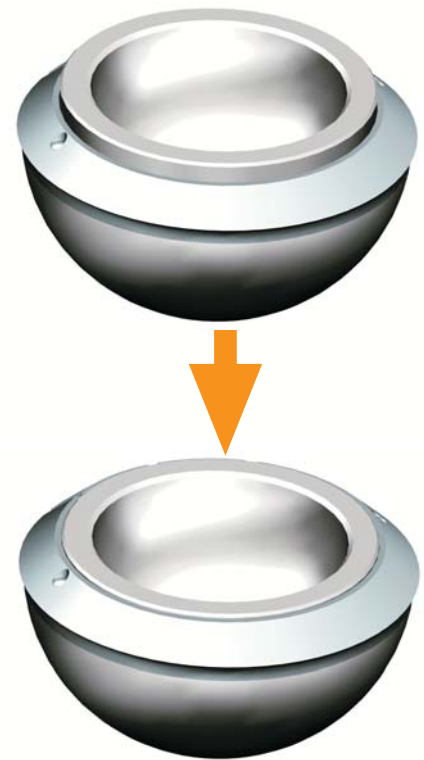


Figure 19: Assembly of the polyethylene liner and cup implants.



Before liner impaction, the polyethylene liner will extend above the top face of the cup implant. Thread the selected liner impactor instrument. Place the impactor adaptor

into the liner and impact until the liner is fully seated. Take care to align the impactor and impact the liner directly into the cup.

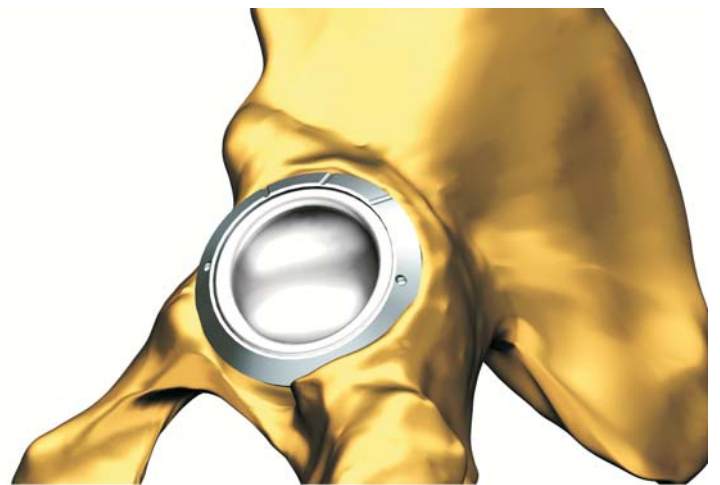
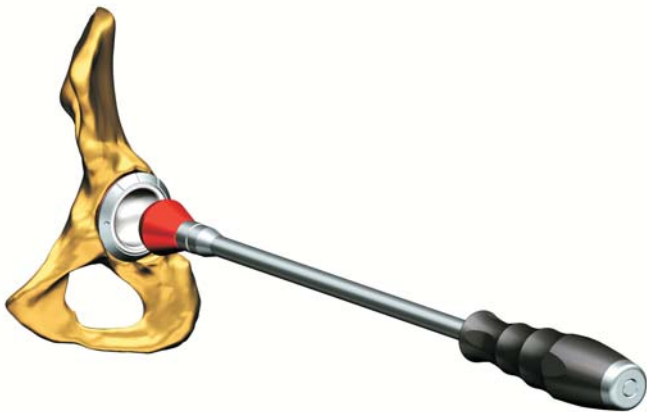


Figure 20: Poly liner impaction with trial shell handle

Verify that the liner is fully seated and that the rim is flush with the top face of the cup by running a finger around the top surface.



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Ceramic Liner Insertion

Place the ceramic liner into the acetabular cup by hand. Select the appropriate liner impactor adapter that corresponds with the implant liner head size. There are four available liner impactor adapters: 22 mm, 28 mm, 32 mm, 36 mm. 22 mm impactor adapter is not used

with ceramic liner. Before liner impaction, verify that ceramic liner is uniformly seated relative to the top face of the cup implant. Eccentric placement may cause improper seating and subsequent ceramic fracture.

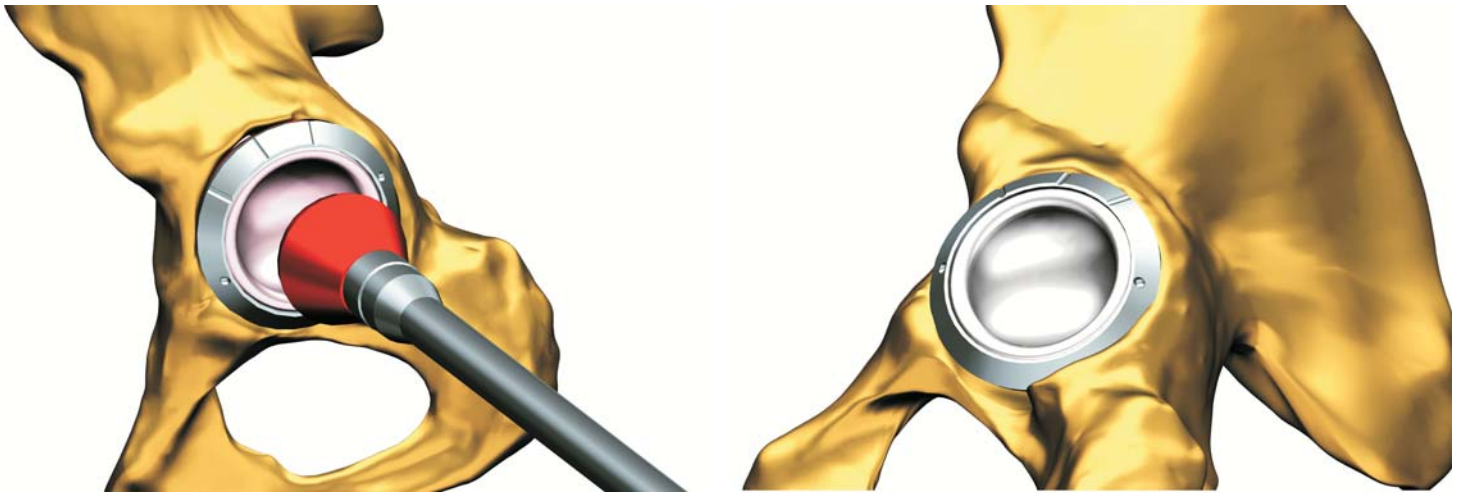


Figure 21: Ceramic liner insertion.

Thread the selected liner impactor adapter onto the liner impactor instrument. Place the impactor adapter into the liner and firmly strike with a mallet once to fully seat the liner.

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Final Assessment

A final assessment should be completed to verify correct placement of the implant components. Assess range of motion, hip stability and leg length

Acetabular Cup Liner Removal

Should it become necessary to remove a liner from the acetabular cup, care should be taken not to damage the cup.

Ceramic Liner Removal

To remove the ceramic liner from the cup implant, position the tip of the liner remover in a dimple located on the top face of the cup. Apply a few short mallet blows, until the liner is loosened from the taper.

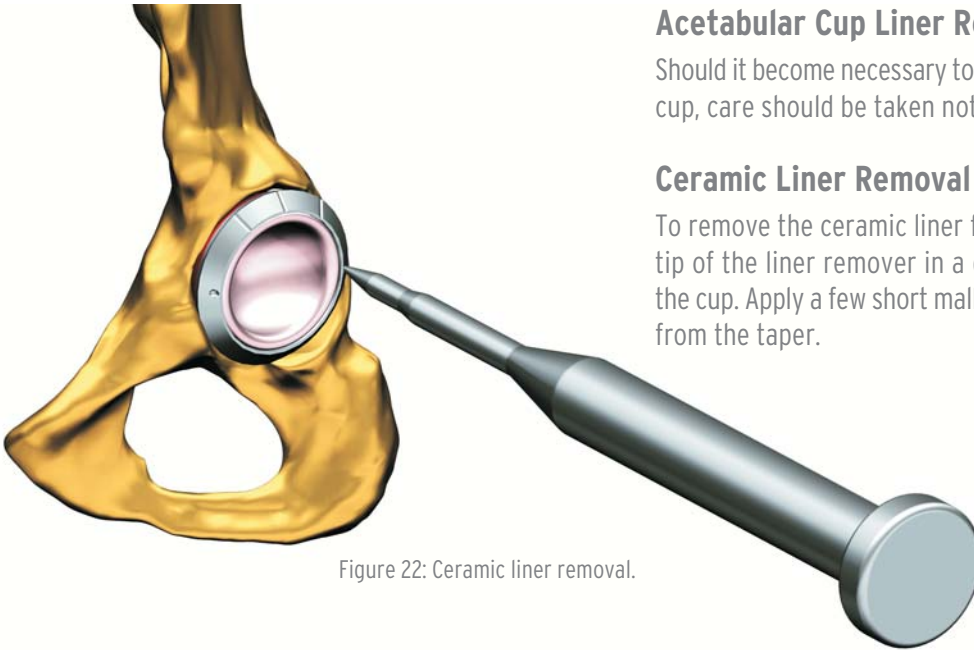


Figure 22: Ceramic liner removal.

Note: Once a hard bearing insert has been used with the cup implant, the cup should not be used with another hard bearing insert.

Poly Liner Removal

To remove the polyethylene liner from the cup implant, drill a hole slightly off center from the liner apex using the drill guide and 3.2 mm drill. Using the screw forceps

and a 3.5 mm hex driver shaft with ratchet handle, insert a cancellous screw into the pilot hole and advance the screw until the liner release from the cup.

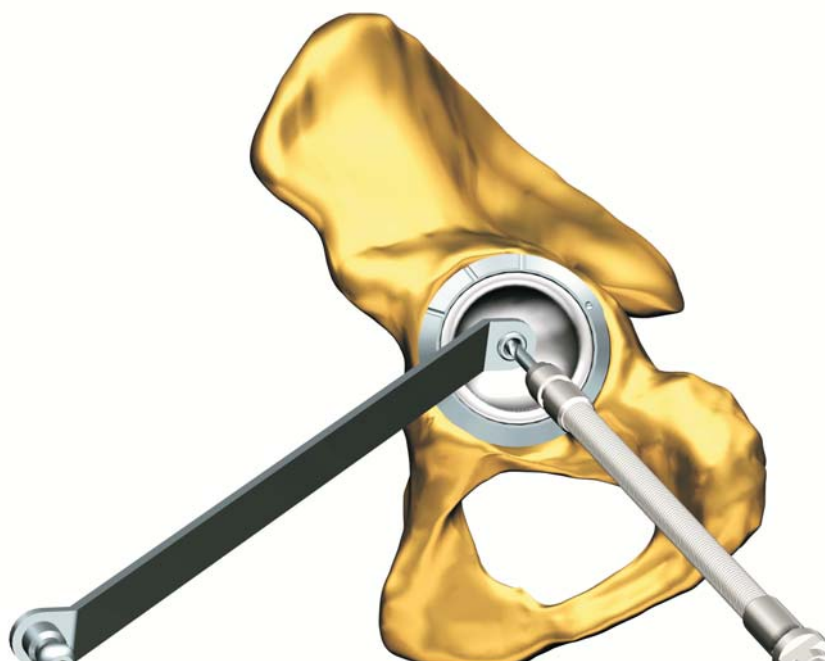


Figure 23: Drill a hole off centre from the liner (apex) and advance bone screw into poly liner insert.

HipEx 3D Acetabular Shell Cementless Porous Coated



Material:	Titanium	Packaging:	1/packet	Sterile
09.2038	HipEx 3D Porous Acetabular Shell Cementless Size 38			
09.2040	HipEx 3D Porous Acetabular Shell Cementless Size 40			
09.2042	HipEx 3D Porous Acetabular Shell Cementless Size 42			
09.2044	HipEx 3D Porous Acetabular Shell Cementless Size 44			
09.2046	HipEx 3D Porous Acetabular Shell Cementless Size 46			
09.2048	HipEx 3D Porous Acetabular Shell Cementless Size 48			
09.2050	HipEx 3D Porous Acetabular Shell Cementless Size 50			
09.2052	HipEx 3D Porous Acetabular Shell Cementless Size 52			
09.2054	HipEx 3D Porous Acetabular Shell Cementless Size 54			
09.2056	HipEx 3D Porous Acetabular Shell Cementless Size 56			
09.2058	HipEx 3D Porous Acetabular Shell Cementless Size 58			
09.2060	HipEx 3D Porous Acetabular Shell Cementless Size 60			
09.2062	HipEx 3D Porous Acetabular Shell Cementless Size 62			
09.2064	HipEx 3D Porous Acetabular Shell Cementless Size 64			
09.2066	HipEx 3D Porous Acetabular Shell Cementless Size 66			
09.2068	HipEx 3D Porous Acetabular Shell Cementless Size 68			
09.2070	HipEx 3D Porous Acetabular Shell Cementless Size 70			

HipEx 3D Acetabular Shell Cementless Porous + HA Coated



Material:	Titanium	Packaging:	1/packet	Sterile
09.2338	HipEx 3D Porous+HA Acetabular Shell Cementless Size 38			
09.2340	HipEx 3D Porous+HA Acetabular Shell Cementless Size 40			
09.2342	HipEx 3D Porous+HA Acetabular Shell Cementless Size 42			
09.2344	HipEx 3D Porous+HA Acetabular Shell Cementless Size 44			
09.2346	HipEx 3D Porous+HA Acetabular Shell Cementless Size 46			
09.2348	HipEx 3D Porous+HA Acetabular Shell Cementless Size 48			
09.2350	HipEx 3D Porous+HA Acetabular Shell Cementless Size 50			
09.2352	HipEx 3D Porous+HA Acetabular Shell Cementless Size 52			
09.2354	HipEx 3D Porous+HA Acetabular Shell Cementless Size 54			
09.2356	HipEx 3D Porous+HA Acetabular Shell Cementless Size 56			
09.2358	HipEx 3D Porous+HA Acetabular Shell Cementless Size 58			
09.2360	HipEx 3D Porous+HA Acetabular Shell Cementless Size 60			
09.2362	HipEx 3D Porous+HA Acetabular Shell Cementless Size 62			
09.2364	HipEx 3D Porous+HA Acetabular Shell Cementless Size 64			
09.2366	HipEx 3D Porous+HA Acetabular Shell Cementless Size 66			
09.2368	HipEx 3D Porous+HA Acetabular Shell Cementless Size 68			
09.2370	HipEx 3D Porous+HA Acetabular Shell Cementless Size 70			

HipEx Acetabular Shell Cementless Plasma Coated



Material:	Titanium	Packaging:	1/packet	Sterile
09.2138	HipEx Ti Plasma Acetabular Shell Cementless Size 38			
09.2140	HipEx Ti Plasma Acetabular Shell Cementless Size 40			
09.2142	HipEx Ti Plasma Acetabular Shell Cementless Size 42			
09.2144	HipEx Ti Plasma Acetabular Shell Cementless Size 44			
09.2146	HipEx Ti Plasma Acetabular Shell Cementless Size 46			
09.2148	HipEx Ti Plasma Acetabular Shell Cementless Size 48			
09.2150	HipEx Ti Plasma Acetabular Shell Cementless Size 50			
09.2152	HipEx Ti Plasma Acetabular Shell Cementless Size 52			
09.2154	HipEx Ti Plasma Acetabular Shell Cementless Size 54			
09.2156	HipEx Ti Plasma Acetabular Shell Cementless Size 56			
09.2158	HipEx Ti Plasma Acetabular Shell Cementless Size 58			
09.2160	HipEx Ti Plasma Acetabular Shell Cementless Size 60			
09.2162	HipEx Ti Plasma Acetabular Shell Cementless Size 62			
09.2164	HipEx Ti Plasma Acetabular Shell Cementless Size 64			
09.2166	HipEx Ti Plasma Acetabular Shell Cementless Size 66			
09.2168	HipEx Ti Plasma Acetabular Shell Cementless Size 68			
09.2170	HipEx Ti Plasma Acetabular Shell Cementless Size 70			

HipEx Acetabular Shell Cementless Plasma + HA Coated



Material:	Titanium	Packaging:	1/packet	Sterile
09.2238	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 38			
09.2240	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 40			
09.2242	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 42			
09.2244	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 44			
09.2246	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 46			
09.2248	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 48			
09.2250	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 50			
09.2252	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 52			
09.2254	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 54			
09.2256	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 56			
09.2258	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 58			
09.2260	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 60			
09.2262	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 62			
09.2264	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 64			
09.2266	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 66			
09.2268	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 68			
09.2270	HipEx Ti Plasma+HA Acetabular Shell Cementless Size 70			

HipEx Acetabular Liner 0 Degree



Material: Polyethylene **Packaging:** 1/packet **Sterile**

09.2900	UHMWPE Acetabular Liner 0 Deg. Ø 22 For Size 38-40 (Group 0)
09.2901	UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 42-44 (Group 1)
09.2902	UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2903	UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2904	UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2905	UHMWPE Acetabular Liner 0 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2906	UHMWPE Acetabular Liner 0 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2907	UHMWPE Acetabular Liner 0 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2908	UHMWPE Acetabular Liner 0 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

Material: Highly Crosslink Polyethylene **Packaging:** 1/packet **Sterile**

09.2800	XL-UHMWPE Acetabular Liner 0 Deg. Ø 22 For Size 38-40 (Group 0)
09.2801	XL-UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 42-44 (Group 1)
09.2802	XL-UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2803	XL-UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2804	XL-UHMWPE Acetabular Liner 0 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2805	XL-UHMWPE Acetabular Liner 0 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2806	XL-UHMWPE Acetabular Liner 0 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2807	XL-UHMWPE Acetabular Liner 0 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2808	XL-UHMWPE Acetabular Liner 0 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

HipEx Acetabular Liner 10 Degree



Material: Polyethylene **Packaging:** 1/packet **Sterile**

09.2910	UHMWPE Acetabular Liner 10 Deg. Ø 22 For Size 38-40 (Group 0)
09.2911	UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 42-44 (Group 1)
09.2912	UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2913	UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2914	UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2915	UHMWPE Acetabular Liner 10 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2916	UHMWPE Acetabular Liner 10 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2917	UHMWPE Acetabular Liner 10 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2918	UHMWPE Acetabular Liner 10 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

Material: Highly Crosslink Polyethylene **Packaging:** 1/packet **Sterile**

09.2810	XL-UHMWPE Acetabular Liner 10 Deg. Ø 22 For Size 38-40 (Group 0)
09.2811	XL-UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 42-44 (Group 1)
09.2812	XL-UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2813	XL-UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2814	XL-UHMWPE Acetabular Liner 10 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2815	XL-UHMWPE Acetabular Liner 10 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2816	XL-UHMWPE Acetabular Liner 10 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2817	XL-UHMWPE Acetabular Liner 10 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2818	XL-UHMWPE Acetabular Liner 10 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

HipEx Acetabular Liner 20 Degree



Material: Polyethylene **Packaging:** 1/packet **Sterile**

09.2920	UHMWPE Acetabular Liner 20 Deg. Ø 22 For Size 38-40 (Group 0)
09.2921	UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 42-44 (Group 1)
09.2922	UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2923	UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2924	UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2925	UHMWPE Acetabular Liner 20 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2926	UHMWPE Acetabular Liner 20 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2927	UHMWPE Acetabular Liner 20 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2928	UHMWPE Acetabular Liner 20 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

Material: Highly Crosslink Polyethylene **Packaging:** 1/packet **Sterile**

09.2820	XL-UHMWPE Acetabular Liner 20 Deg. Ø 22 For Size 38-40 (Group 0)
09.2821	XL-UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 42-44 (Group 1)
09.2822	XL-UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 46-48-50 (Group 2)
09.2823	XL-UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 52-54-56-58 (Group 3)
09.2824	XL-UHMWPE Acetabular Liner 20 Deg. Ø 28 For Size 60-62-64-66-68-70 (Group 4)
09.2825	XL-UHMWPE Acetabular Liner 20 Deg. Ø 32 For Size 52-54-56-58 (Group 3)
09.2826	XL-UHMWPE Acetabular Liner 20 Deg. Ø 32 For Size 60-62-64-66-68-70 (Group 4)
09.2827	XL-UHMWPE Acetabular Liner 20 Deg. Ø 36 For Size 60-62-64-66-68-70 (Group 4)
09.2828	XL-UHMWPE Acetabular Liner 20 Deg. Ø 36 For Size 52-54-56-58 (Group 3)

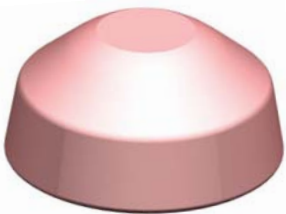
HipEx Acetabular Constrained Liner



Material: Polyethylene **Packaging:** 1/packet **Sterile**

02.3601	UHMWPE Acetabular Constrained Liner Ø 28 For Size 42-44 (Group 1)
02.3602	UHMWPE Acetabular Constrained Liner Ø 28 For Size 46-48-50 (Group 2)
02.3603	UHMWPE Acetabular Constrained Liner Ø 28 For Size 52-54-56-58 (Group 3)
02.3604	UHMWPE Acetabular Constrained Liner Ø 28 For Size 60-62-64-66-68-70 (Group 4)

HipEx Ceramic Acetabular Liner



Material: Ceramic **Packaging:** 1/packet **Sterile**

09.2835	Ceramic Acetabular Liner Ø 28X35 For Size 42-44 (Group 1)
09.3239	Ceramic Acetabular Liner Ø 32X39 For Size 46-48-50 (Group 2)
09.3644	Ceramic Acetabular Liner Ø 36X44 For Size 52-54-56-58 (Group 3)
09.3648	Ceramic Acetabular Liner Ø 36X48 For Size 60-62-64-66-68-70 (Group 4)



Modular Head 22 mm



	Material: Stainless Steel	Packaging: 1/packet	Sterile
02.8000	Modular Head (SS) Ø22 mm + 0 mm		
02.8004	Modular Head (SS) Ø22 mm + 4 mm		
02.8008	Modular Head (SS) Ø22 mm + 8 mm		

	Material: CoCr	Packaging: 1/packet	Sterile
02.8300	Modular Head (CoCr) Ø22 mm + 0 mm		
02.8304	Modular Head (CoCr) Ø22 mm + 4 mm		
02.8308	Modular Head (CoCr) Ø22 mm + 8 mm		

Modular Head 28 mm



	Material: Stainless Steel	Packaging: 1/packet	Sterile
02.8100	Modular Head (SS) Ø28 mm 0 mm		
02.8103	Modular Head (SS) Ø28 mm - 3 mm		
02.8104	Modular Head (SS) Ø28 mm +4 mm		
02.8108	Modular Head (SS) Ø28 mm +8 mm		
02.8112	Modular Head (SS) Ø28 mm +12 mm		

	Material: CoCr	Packaging: 1/packet	Sterile
02.8400	Modular Head (CoCr) Ø28 mm 0 mm		
02.8403	Modular Head (CoCr) Ø28 mm - 3 mm		
02.8404	Modular Head (CoCr) Ø28 mm +4 mm		
02.8408	Modular Head (CoCr) Ø28 mm +8 mm		
02.8412	Modular Head (CoCr) Ø28 mm +12 mm		
02.8416	Modular Head (CoCr) Ø28 mm +16 mm		



	Material: Ceramic / For Only HipEx Acetabular Cup System	Packaging: 1/packet	Sterile
09.2831	Ceramic Modular Head Ø28 S		
09.2832	Ceramic Modular Head Ø28 M		
09.2833	Ceramic Modular Head Ø28 L		



Modular Head 32 mm



Material: Stainless Steel **Packaging:** 1/packet **Sterile**

02.8200	Modular Head (SS) Ø32 mm 0 mm
02.8203	Modular Head (SS) Ø32 mm - 3 mm
02.8204	Modular Head (SS) Ø32 mm +4 mm
02.8208	Modular Head (SS) Ø32 mm +8 mm
02.8212	Modular Head (SS) Ø32 mm +12 mm

Material: CoCr **Packaging:** 1/packet **Sterile**

02.8500	Modular Head (CoCr) Ø32 mm 0 mm
02.8503	Modular Head (CoCr) Ø32 mm - 3 mm
02.8504	Modular Head (CoCr) Ø32 mm +4 mm
02.8508	Modular Head (CoCr) Ø32 mm +8 mm
02.8512	Modular Head (CoCr) Ø32 mm +12 mm



Material: Ceramic / For Only HipEx Acetabular Cup System **Packaging:** 1/packet **Sterile**

09.3231	Ceramic Modular Head Ø32 S
09.3232	Ceramic Modular Head Ø32 M
09.3233	Ceramic Modular Head Ø32 L
09.3234	Ceramic Modular Head Ø32 XL

Modular Head 36 mm



Material: CoCr **Packaging:** 1/packet **Sterile**

02.8520	Modular Head (CoCr) Ø36 mm S
02.8521	Modular Head (CoCr) Ø36 mm M
02.8522	Modular Head (CoCr) Ø36 mm L
02.8523	Modular Head (CoCr) Ø36 mm XL



Material: Ceramic / For Only HipEx Acetabular Cup System **Packaging:** 1/packet **Sterile**

09.3631	Ceramic Modular Head Ø36 S
09.3632	Ceramic Modular Head Ø36 M
09.3633	Ceramic Modular Head Ø36 L
09.3634	Ceramic Modular Head Ø36 XL

HipEx Acetabular Instruments

95.0521	HipEx Acetabular Instruments Adapt. Case
08.0298	Acetabular Trial Shell 38 mm
08.0299	Acetabular Trial Shell 40 mm
08.0301	Acetabular Trial Shell 42 mm
08.0302	Acetabular Trial Shell 44 mm
08.0303	Acetabular Trial Shell 46 mm
08.0304	Acetabular Trial Shell 48 mm
08.0305	Acetabular Trial Shell 50 mm
08.0306	Acetabular Trial Shell 52 mm
08.0307	Acetabular Trial Shell 54 mm
08.0308	Acetabular Trial Shell 56 mm
08.0309	Acetabular Trial Shell 58 mm
08.0310	Acetabular Trial Shell 60 mm
08.0311	Acetabular Trial Shell 62 mm
08.0598	Trial Shell Handle
08.0454	Acetabular Reamer 38 mm
08.0455	Acetabular Reamer 40 mm
08.0433	Acetabular Reamer 42 mm
08.0434	Acetabular Reamer 44 mm
08.0435	Acetabular Reamer 46 mm
08.0436	Acetabular Reamer 48 mm
08.0437	Acetabular Reamer 50 mm
08.0438	Acetabular Reamer 52 mm
08.0439	Acetabular Reamer 54 mm
08.0440	Acetabular Reamer 56 mm
08.0441	Acetabular Reamer 58 mm
08.0442	Acetabular Reamer 60 mm
08.0443	Acetabular Reamer 62 mm
08.5108	Acetabular Reamer Shaft

95.0522	HipEx Acetabular Instruments Adapt. Tray 1
08.5116	Curved Screw Forceps
08.5109	Acetabular Screw Drill Guide 3.2-4
08.5115	Acetabular Screw Depth Gauge
08.5118	Rigid Screwdriver
08.5117	Universal Screwdriver
08.5119	Flexible Drill Shaft
08.5120	Flexible Drill Bit 3.2 mm Short
08.5121	Flexible Drill Bit 3.2 mm Long
08.5106	Flexible Drill Bit 4 mm Short
08.5107	Flexible Drill Bit 4 mm Long
08.0453	Acetabular Cup Screw Driver Rachcet Handle
95.0007	Acetabular Cemented Cup Impactor For Ø22
95.0008	Acetabular Cemented Cup Impactor For Ø28
95.0009	Acetabular Cemented Cup Impactor For Ø32

HipEx Acetabular Instruments

95.0523	HipEx Acetabular Instruments Adapt. Tray 2
95.0405	38-40 mm Trial Liner 0 Deg. For 22 mm Head
95.0406	42-44 mm Trial Liner 0 Deg. For 28 mm Head
95.0407	46-48-50 mm Trial Liner 0 Deg. For 28 mm Head
95.0408	52-54-56-58 mm Trial Liner 0 Deg. For 28 mm Head
95.0409	60-62-64-66-68-70 mm Trial Liner 0 Deg. For 28 mm Head
95.0410	38-40 mm Trial Liner 10 Deg. For 22 mm Head
95.0411	42-44 mm Trial Liner 10 Deg. For 28 mm Head
95.0412	46-48-50 mm Trial Liner 10 Deg. For 28 mm Head
95.0413	52-54-56-58 mm Trial Liner 10 Deg. For 28 mm Head
95.0414	60-62-64-66-68-70 mm Trial Liner 10 Deg. For 28 mm Head
95.0415	38-40 mm Trial Liner 20 Deg. For 22 mm Head
95.0416	42-44 mm Trial Liner 20 Deg. For 28 mm Head
95.0417	46-48-50 mm Trial Liner 20 Deg. For 28 mm Head
95.0418	52-54-56-58 mm Trial Liner 20 Deg. For 28 mm Head
95.0419	60-62-64-66-68-70 mm Trial Liner 20 Deg. For 28 mm Head
95.0420	46-48-50 mm Trial Liner 0 Deg. For 32 mm Head
95.0421	52-54-56-58 mm Trial Liner 0 Deg. For 32 mm Head
95.0422	60-62-64-66-68-70 mm Trial Liner 0 Deg. For 32 mm Head
95.0423	52-54-56-58 mm Trial Liner 0 Deg. For 36 mm Head
95.0424	60-62-64-66-68-70 mm Trial Liner 0 Deg. For 36 mm Head
95.0425	Ceramic/Metal Liner Extractor
95.0487	Liner Impactor 22
95.0488	Liner Impactor 28
95.0489	Liner Impactor 32
95.0490	Liner Impactor 36
95.0497	Acetabular Cup Impactor
08.0196	Acetabular Cup Positioning Gauge

95.0535	Hipex Acetabular Option Adapt. Case
95.0284	Trial Femoral Head Ø32 mm -3 mm (S)
95.0285	Trial Femoral Head Ø32 mm +0 mm (M)
95.0286	Trial Femoral Head Ø32 mm +4 mm (L)
95.0287	Trial Femoral Head Ø32mm +8 mm (Xl)
95.0288	Trial Femoral Head Ø32mm +12 mm (Xxl)
95.0289	Trial Femoral Head Ø36 S
95.0290	Trial Femoral Head Ø36 M
95.0291	Trial Femoral Head Ø36 L
95.0292	Trial Femoral Head Ø36 XL
95.0529	52-54-56-58 mm Trial Liner 10 Deg. For Ø32 mm Head
95.0530	60-62-64-66-68-70 mm Trial Liner 10 Deg. For Ø32 mm Head
95.0531	60-62-64-66-68-70 mm Trial Liner 10 Deg. For Ø36 mm Head
95.0532	52-54-56-58 mm Trial Liner 20 Deg. For Ø32 mm Head
95.0533	60-62-64-66-68-70 mm Trial Liner 20 Deg. For Ø32 mm Head
95.0534	60-62-64-66-68-70 mm Trial Liner 20 Deg. For Ø36 mm Head
95.0525	Acetabular Trial Shell 64 mm
95.0526	Acetabular Trial Shell 66 mm
95.0527	Acetabular Trial Shell 68 mm
95.0528	Acetabular Trial Shell 70 mm
95.0484	Acetabular Reamer 64 mm
95.0486	Acetabular Reamer 66 mm
95.0492	Acetabular Reamer 68 mm
95.0494	Acetabular Reamer 70 mm
08.5133	Removal Pens

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