Surgical Technique

smith&nephew

REDAPT◇

Revision Acetabular System
Fully Porous Shell

CONCELOC◇

Advanced Porous Titanium

Design surgeon list

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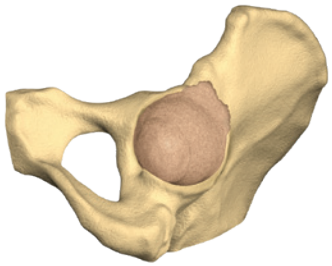
The following technique is for informational and educational purposes only. It is not intended to serve as medical advice. It is the responsibility of the treating physician to determine and utilize the appropriate products and techniques according to their own clinical judgment for each of their patients. For more information on any product referenced herein, including indications for use, contraindications, effects, precautions and warnings, please consult the product's Instructions for Use (IFU) prior to use.

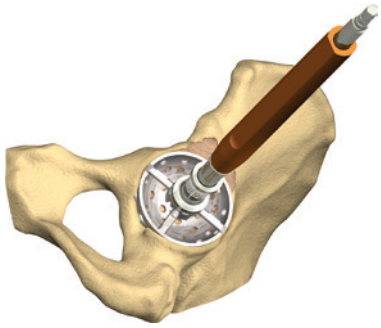
Nota Bene: *The technique description herein is made available to the healthcare professional to illustrate the authors' suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the needs of the patient.*

Short technique

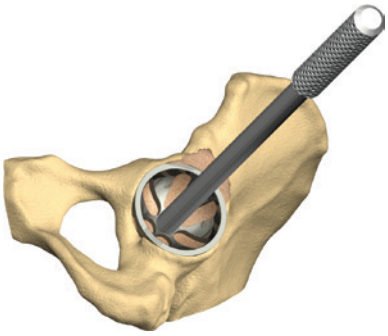
1. Preoperative planning



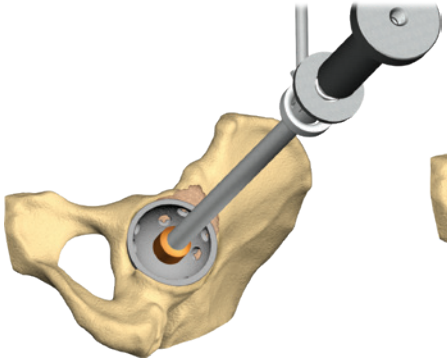
2. Remove existing components



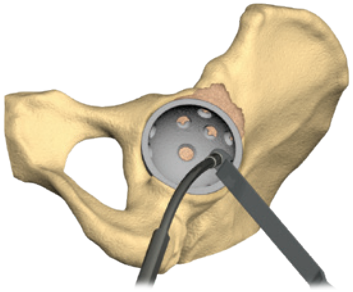
3. Acetabular reaming



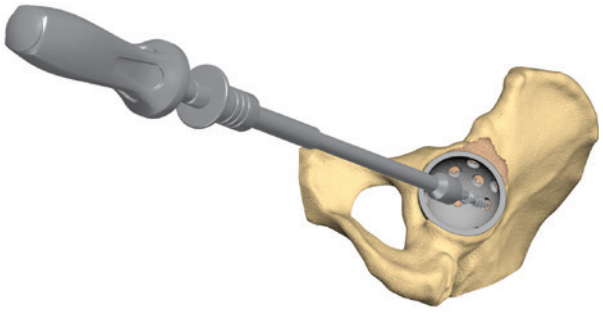
4. Acetabular trialing



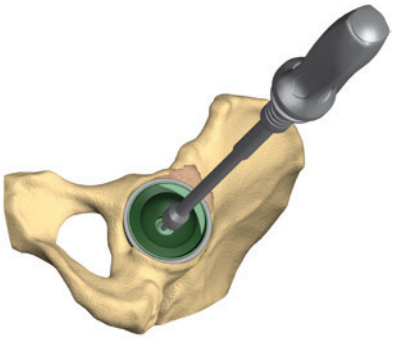
5. Shell insertion



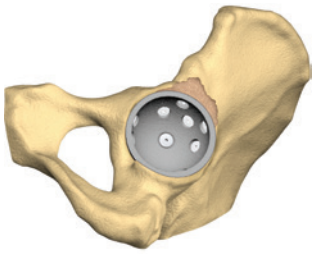
6. Pre-drill for screws



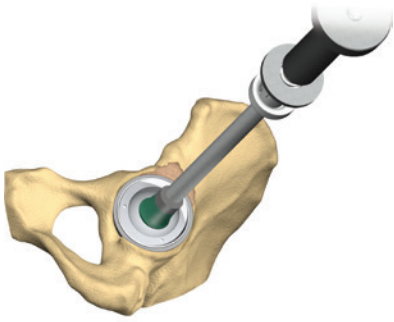
7. Screw insertion



8. Trial liner assessment



9. Hole cover placement



10. Cement liner

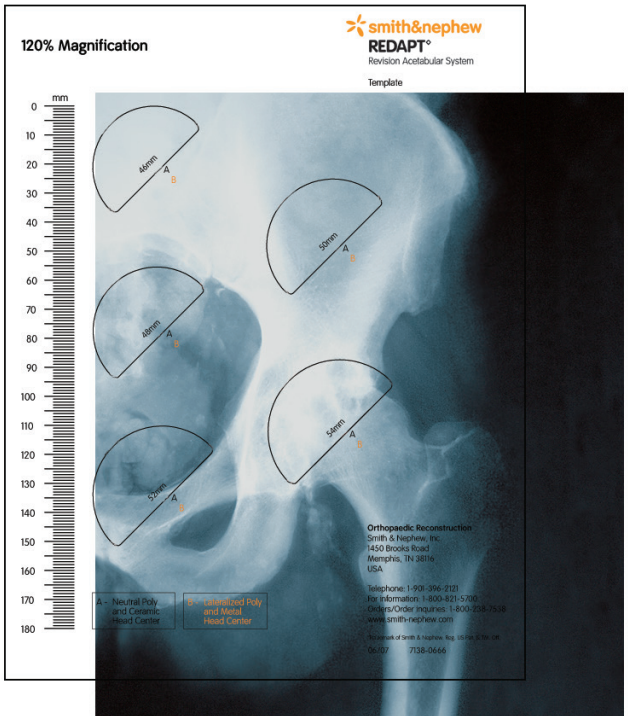
Preoperative planning

The procedure should first begin with preoperative templating. Care should be taken to determine the degree of bone loss, any damaged/loose components and any difficult anatomical concerns. Factors such as leg length, and estimation of the hip center, etc. should be considered prior to surgery.

Preoperative X-Rays should include an A/P of the pelvis centered over the symphysis and an A/P and lateral of the affected hip.

Templating (Use REDAPT® Fully Porous Shell X-Ray Templates 71381750) can be done on the affected side, but it is important that the contralateral hip also be templated to verify the size.

To ensure a congruent fit, the acetabular component should be medialized to the medial aspect of the acetabulum as indicated by the teardrop. The center of rotation should also be marked for subsequent reference.



Surgical tip:

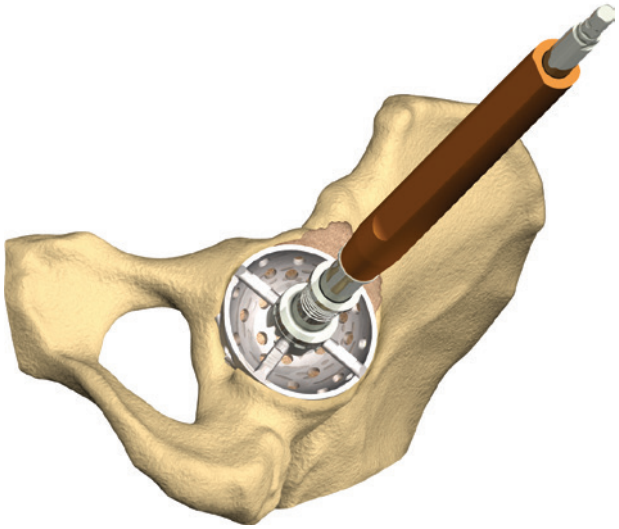
- Take note of original shell position relative to existing landmarks

Acetabular exposure/ component removal

The surgeon should use the surgical approach with which he/she is comfortable. Adequate exposure should be performed to accommodate the removal of existing components and insertion of the REDAPT Fully Porous Shell.

This surgical technique will focus on the acetabulum. Removing a well-fixed shell can be facilitated with the RENOVATION® Implant Removal System (7138-0701).

Acetabular reaming



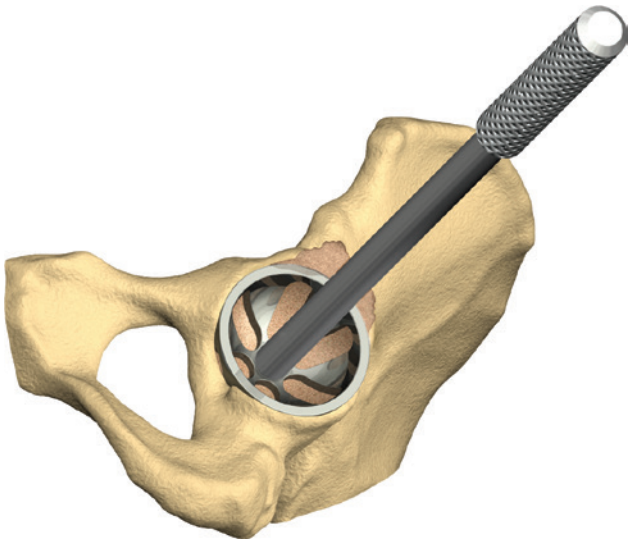
Once implants are removed, the acetabulum should be reamed to receive the REDAPT® Fully Porous Shell. The provided reamers should be used to carefully prepare a hemisphere to receive the REDAPT Fully Porous Shell. Depending upon the quality of the host bone and surgeon assessment of defect classification, reaming should be performed to achieve a 1mm press fit, but the surgeon should adjust based on shell diameter, bone quality and surgeon preference. Care should be taken to recreate the center of rotation as close to the patients original hip center of rotation if possible.

Note: Reaming should begin with a reamer smaller than the diameter of the shell that was removed. Then the surgeon should sequentially move up in size until the desired press fit is reached. **The outer diameter of the reamers is consistent with the outer diameter of the shells.**

Surgical tips:

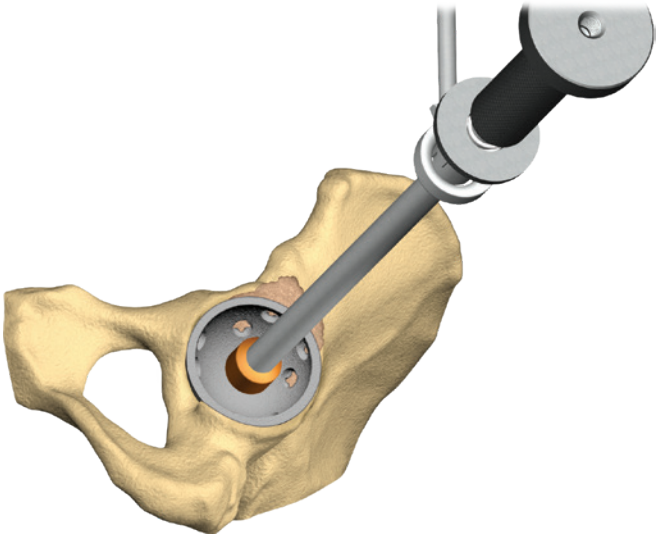
- Anticipate minimal reaming for revision procedures.
- Adhere to the preoperative plan and take care not to chase defects or ream beyond the width of the anterior or posterior columns.
- Avoid proximal reaming which raises the center of rotation.
- Many surgeons realize that 2mm of press fit or up to line-to-line fit may be necessary.

Acetabular trialing



Once the bone is prepared, and reamed at the desired diameter, trialing should be done to assure desired size and alignment. The supplied trial from the R3° system is fixed to the Trial Shell Inserter (7136-2297) and inserted to verify size and position of the shell. The surgeon should note the appropriate orientation of the acetabular trial to position the shell correctly. A trial liner insert cannot be inserted into a trial shell for trial reduction, however, once a REDAPT° Fully Porous Shell is inserted, a trial liner can be placed for subsequent leg length, offset and stability and range of motion assessments prior to cementing the implant liner. *Refer to page 9 for proper technique.*

Acetabular shell insertion



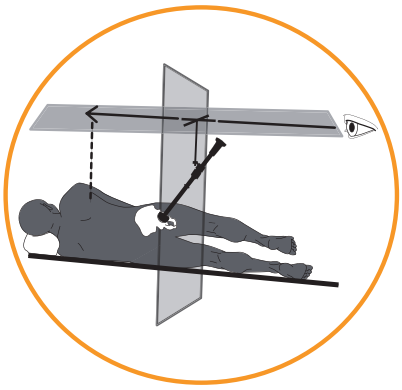
After trialing, select the corresponding size acetabular shell and affix to the Shell Positioner/ Impactor (7136-4450). Care should be exercised to introduce the shell at the desired inclination and version angles. Once the desired positioning of the shell is achieved, a mallet is used to impact the shell. Unlike a primary case where adequate host bone is available and predictable landmarks are available for visual confirmation, revision cases will require the surgeon to assess stability of the shell using tactile methods. The shell should be securely fixed and unable to be moved or repositioned without significant force being applied. Remove shell positioner by unscrewing from the threaded apex hole.

Surgical tip:

- If hard host bone is encountered, a heavy mallet may be required.

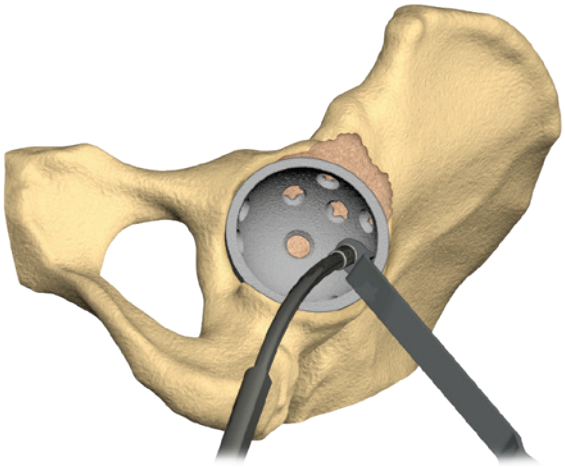
Instrument tips:

- The acetabular shell should be securely threaded onto the impactor.
- Use supplied alignment guide to assess shell version and inclination.
- The acetabular shell is marked with a solid black line at the rim to aid with proper alignment



Alignment marking

Acetabular screw insertion



Screws can be used to augment fixation and further secure the shell. For screw fixation, each screw hole must be pre-drilled. **When drilling to prepare for screw holes, the REDAPT® Drill Guide (7135-5121) must be used.** If the tip is not fully seated, damage to the locking tabs may occur, the limits of angulation may be exceeded and the locking strength of the screws may be affected. After drilling the hole, use the depth gauge to verify appropriate screw length(s). The hole pattern of the REDAPT Fully Porous Shell provides multiple opportunities for fixation to host bone. Care should be taken to orient the shell so that the hole pattern aligns with desired points of fixation. Each hole can accept either a spherical head screw or a REDAPT Locking Screw. **Drilling through the porous structure to create additional fixation points should not be attempted as implant integrity may be compromised.**

Spherical Head Screws

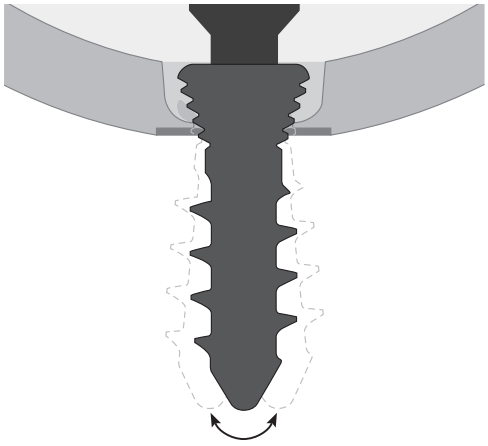
Use the screw forceps to hold the screw. Attach the ball-joint or flexible screwdriver shaft to the end of the screw. Then introduce the screw into the hole and screw it into place using the ratcheting screwdriver handle. Make sure the screw is fully seated within the screw hole so that it will not impinge on the REDAPT Fully Porous Shell.

Locking screws

The Torque Limiting Driver (7135-4299) should always be used to ensure a secure fit and prevent over-tightening. Over-tightening may result in damage to the locking screw tabs on the shell.

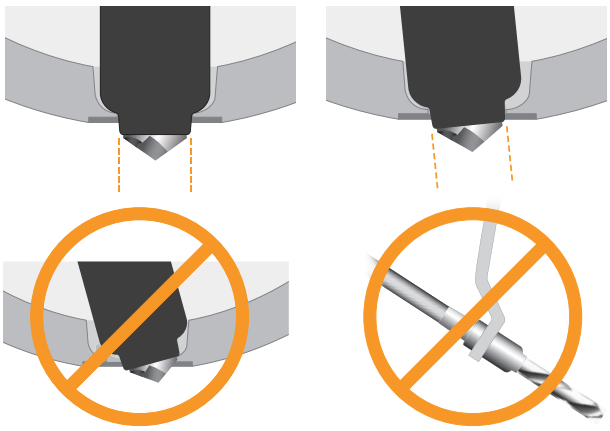
Surgical tips:

- The REDAPT Drill Guide has two different tip angles. When using this guide, use whichever end of the drill guide provides optimal access to ensure it is fully seated in the selected screw hole.
- Many surgeons choose to place a non-locking screw first, then proceed to locking screws. At least one, non-locking screw should be placed prior to placing locking screws.
- It is important to avoid neurovascular complications by proper screw placement, avoiding the anterior/superior or anterior/inferior quadrants.
- Inspect each screw to ensure that screw heads are flush or below the inner diameter of the REDAPT Fully Porous Shell.
- The use of radiographic imaging may facilitate precise screw placement.



Instrument tips:

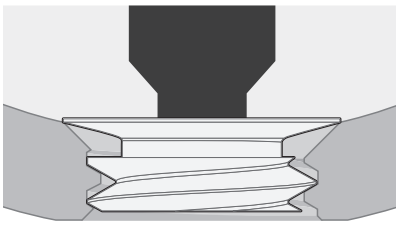
- The tip of the REDAPT drill guide must be fully seated in the screw hole.

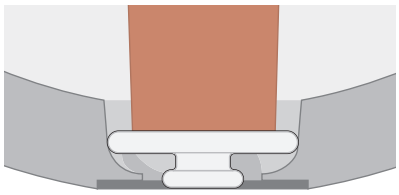


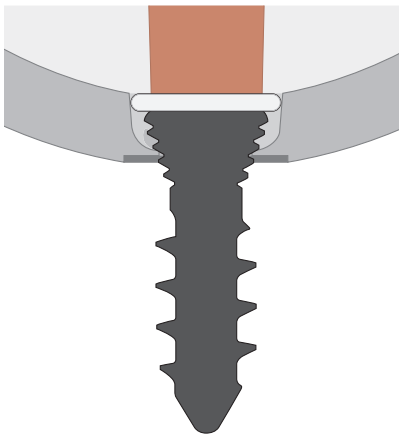
Reduction/range of motion assessment
A Cemented Liner Trial can be used to perform a trial reduction at this time. The proper size trial liner should be selected to correspond with the implanted shell. When using the trial liners, it is important that the trial liner be firmly held in place by hand while using the screwdriver to tighten the apex screw of the trial liner into the shell to ensure the liner does not rotate. A trial reduction for subsequent leg length, offset and stability assessments can be performed at this time if femoral component preparation is complete. Once the trial liner is removed, assemble threaded apex hole cover (7133-0001) into the threaded apex hole.

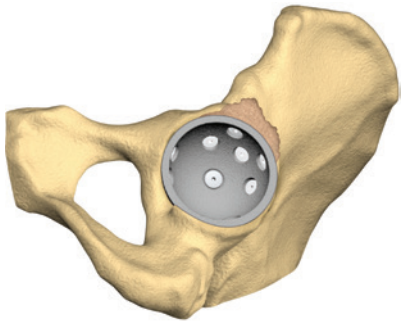
Hole covers
The supplied hole covers can be used to fill any unused screw holes to protect against cement migration through the shell. Additionally, hole covers can be inserted into the hexes of screw heads and threaded apex hole cover placed in the shell to protect against cement intrusion into the hex head.

Note: Both hole cover inserters should be removed from the package prior to sliding the lid of the tray open. Only slide the lid far enough to expose one hole cover at a time to facilitate individual loading of hole covers. With the sterile tray seated on a back table, assemble the hole cover to the hole cover inserter by pressing the inserter tip into the access hole of the hole cover (while in sterile tray). Remove the hole cover from the sterile tray with the hole cover inserter. Visually inspect that the hole cover is fully assembled to the hole cover inserter. Using hand pressure, with the hole cover inserter, press the hole cover into an unused screw hole. Additionally, hole covers can be placed into the hexes of any screws that may have been implanted as well as the apex hole cover.









Surgical tip:

- A gentle twisting motion can be used to remove the hole cover from the hole cover inserter.
- 7133-0001 R3°/REFLECTION° Threaded Hole Cover is the only threaded apex hole cover that should be threaded into the apex hole feature.

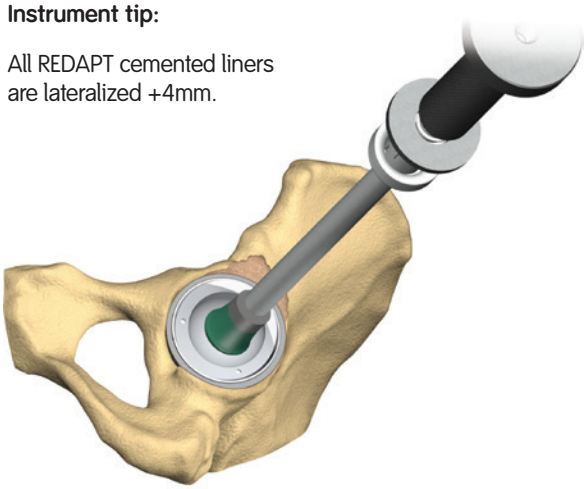
Acetabular liner insertion

When satisfactory orientation of the shell is achieved, the surgeon should begin preparation to cement the cemented liner into the REDAPT◊ Fully Porous Shell. Care should be taken to orient the final components consistent with the orientation of the trial components. Mix bone cement according to suggested manufacturer's instructions allowing appropriate cure time. Apply cement to the inside diameter of the shell. Hand position the correctly sized cemented liner into the REDAPT Fully Porous Shell. Pressurize cement using the appropriately sized liner impactor head until cement is cured, removing any excess cement.

If using a Cemented POLARCUP Dual Mobility bearing, apply cement to the inside diameter of the implanted REDAPT Fully Porous Shell. Hand position the correctly sized POLARCUP shell into the implanted REDAPT Shell. Pressurize cement until it is cured, removing any excess cement. The POLARCUP Insert and femoral head are combined and impacted onto the femoral stem before reducing the joint. For more information on Cemented POLARCUP, refer to the POLARCUP Surgical Technique (01620-us (1582)). Please see the chart below for recommended REDAPT Shell/ POLARCUP Cemented size compatibility.

Instrument tip:

- All REDAPT cemented liners are lateralized +4mm.



Surgical tip:

- Position the POLARCUP in the REDAPT Fully Porous Shell so that early impingement does not occur. This may require lateralization or angulation.

REDAPT Fully Porous Shell

POLARCUP Cemented

Size compatability

REDAPT◊ Fully Porous Shell	POLARCUP Cemented
Size	**Size**
48mm	NA
50mm	NA
52mm	NA
54mm	NA
56mm	43mm
58mm	45mm
60mm	47mm
62mm	49mm
64mm	51mm
66mm	53mm
68mm	53mm
70mm	57mm
72mm	57mm
74mm	57mm
76mm	63mm
78mm	63mm
80mm	63mm

Catalog

REDAPT® Fully Porous Shell Offering				
Item	**Description**	**OD**	**ID**	**Thickness**
7135-4228	REDAPT Fully Porous Shell 48mm	48mm	40mm	4mm
7135-4229	REDAPT Fully Porous Shell 50mm	50mm	42mm	4mm
7135-4231	REDAPT Fully Porous Shell 52mm	52mm	44mm	4mm
7135-4232	REDAPT Fully Porous Shell 54mm	54mm	46mm	4mm
7135-4233	REDAPT Fully Porous Shell 56mm	56mm	48mm	4mm
7135-4234	REDAPT Fully Porous Shell 58mm	58mm	50mm	4mm
7135-4235	REDAPT Fully Porous Shell 60mm	60mm	52mm	4mm
7135-4236	REDAPT Fully Porous Shell 62mm	62mm	54mm	4mm
7135-4237	REDAPT Fully Porous Shell 64mm	64mm	56mm	4mm
7135-4238	REDAPT Fully Porous Shell 66mm	66mm	58mm	4mm
7135-4239	REDAPT Fully Porous Shell 68mm	68mm	58mm	5mm
7135-4241	REDAPT Fully Porous Shell 70mm	70mm	62mm	4mm
7135-4242	REDAPT Fully Porous Shell 72mm	72mm	62mm	5mm
7135-4243	REDAPT Fully Porous Shell 74mm	74mm	62mm	6mm
7135-4244	REDAPT Fully Porous Shell 76mm	76mm	68mm	4mm
7135-4245	REDAPT Fully Porous Shell 78mm	78mm	68mm	5mm
7135-4246	REDAPT Fully Porous Shell 80mm	80mm	68mm	6mm

POLARCUP® Cemented		
Item	**Description**	**Size**
7510-0451	Stainless steel (Cemented)	43mm
7510-0452	Stainless steel (Cemented)	45mm
7510-0453	Stainless steel (Cemented)	47mm
7510-0454	Stainless steel (Cemented)	49mm
7510-0455	Stainless steel (Cemented)	51mm
7510-0456	Stainless steel (Cemented)	53mm
7510-0457	Stainless steel (Cemented)	55mm
7510-0458	Stainless steel (Cemented)	57mm
7510-0459	Stainless steel (Cemented)	59mm
7510-0460	Stainless steel (Cemented)	61mm
7510-0461	Stainless steel (Cemented)	63mm

REDAPT® Cemented Liners	
Item	**Description**
7135-4533	REDAPT 0° Cemented XLPE Liner 28mm x 48mm
7135-4534	REDAPT 0° Cemented XLPE Liner 28mm x 50mm
7135-4521	REDAPT 0° Cemented XLPE Liner 32mm x 50mm
7135-4537	REDAPT 0° Cemented XLPE Liner 32mm x 52mm
7135-4538	REDAPT 0° Cemented XLPE Liner 32mm x 54mm
7135-4522	REDAPT 0° Cemented XLPE Liner 36mm x 54mm
7135-4543	REDAPT 0° Cemented XLPE Liner 36mm x 56mm
7135-4544	REDAPT 0° Cemented XLPE Liner 36mm x 58mm
7135-4545	REDAPT 0° Cemented XLPE Liner 36mm x 60mm
7135-4546	REDAPT 0° Cemented XLPE Liner 36mm x 62mm
7135-4547	REDAPT 0° Cemented XLPE Liner 36mm x 64mm
7135-4548	REDAPT 0° Cemented XLPE Liner 36mm x 66-68mm
7135-4549	REDAPT 0° Cemented XLPE Liner 36mm x 70-74mm
7135-4550	REDAPT 0° Cemented XLPE Liner 36mm x 76-80mm
7135-4523	REDAPT 0° Cemented XLPE Liner 40mm x 58mm
7135-4551	REDAPT 0° Cemented XLPE Liner 40mm x 60mm
7135-4552	REDAPT 0° Cemented XLPE Liner 40mm x 62mm
7135-4553	REDAPT 0° Cemented XLPE Liner 40mm x 64mm
7135-4554	REDAPT 0° Cemented XLPE Liner 40mm x 66-68mm
7135-4555	REDAPT 0° Cemented XLPE Liner 40mm x 70-74mm
7135-4556	REDAPT 0° Cemented XLPE Liner 40mm x 76-80mm
7135-4248	REDAPT Anteverted Cemented XLPE Liner 28mm x 48mm
7135-4249	REDAPT Anteverted Cemented XLPE Liner 28mm x 50mm
7135-4222	REDAPT Anteverted Cemented XLPE Liner 32mm x 50mm
7135-4252	REDAPT Anteverted Cemented XLPE Liner 32mm x 52mm
7135-4253	REDAPT Anteverted Cemented XLPE Liner 32mm x 54mm
7135-4224	REDAPT Anteverted Cemented XLPE Liner 36mm x 54mm
7135-4258	REDAPT Anteverted Cemented XLPE Liner 36mm x 56mm
7135-4259	REDAPT Anteverted Cemented XLPE Liner 36mm x 58mm
7135-4260	REDAPT Anteverted Cemented XLPE Liner 36mm x 60mm
7135-4261	REDAPT Anteverted Cemented XLPE Liner 36mm x 62mm
7135-4262	REDAPT Anteverted Cemented XLPE Liner 36mm x 64mm
7135-4263	REDAPT Anteverted Cemented XLPE Liner 36mm x 66-68mm
7135-4264	REDAPT Anteverted Cemented XLPE Liner 36mm x 70-74mm
7135-4265	REDAPT Anteverted Cemented XLPE Liner 36mm x 76-80mm
7135-4226	REDAPT Anteverted Cemented XLPE Liner 40mm x 58mm
7135-4266	REDAPT Anteverted Cemented XLPE Liner 40mm x 60mm
7135-4267	REDAPT Anteverted Cemented XLPE Liner 40mm x 62mm
7135-4268	REDAPT Anteverted Cemented XLPE Liner 40mm x 64mm
7135-4269	REDAPT Anteverted Cemented XLPE Liner 40mm x 66-68mm
7135-4270	REDAPT Anteverted Cemented XLPE Liner 40mm x 70-74mm
7135-4271	REDAPT Anteverted Cemented XLPE Liner 40mm x 76-80mm

Hole Covers	
Cat. no.	**Description**
7135-4240	REDAPT® Hole Cover Kit
7133-0001	R3®/REFLECTION® Threaded Hole Cover

Spherical Head Screws	
Cat. no.	**Length (mm)**
7133-2515	15
7133-2520	20
7133-2525	25
7133-2530	30
7133-2535	35
7133-2540	40
7133-2545	45
7133-2550	50

REDAPT Locking Screws	
Cat. no.	**Length (mm)**
7135-4502	15
7135-4503	20
7135-4504	25
7135-4505	30
7135-4506	35
7135-4507	40
7135-4508	45
7135-4509	50

REDAPT® Trial Liner Offerings	
Item	**Description**
7135-4277	REDAPT 0° Cemented Screw In Trial Liner 28mm x 48mm
7135-4278	REDAPT 0° Cemented Screw In Trial Liner 28mm x 50mm
7135-4296	REDAPT 0° Cemented Screw In Trial Liner 32mm x 50mm
7135-4281	REDAPT 0° Cemented Screw In Trial Liner 32mm x 52mm
7135-4282	REDAPT 0° Cemented Screw In Trial Liner 32mm x 54mm
7135-4297	REDAPT 0° Cemented Screw In Trial Liner 36mm x 54mm
7135-4287	REDAPT 0° Cemented Screw In Trial Liner 36mm x 56mm
7135-4288	REDAPT 0° Cemented Screw In Trial Liner 36mm x 58mm
7135-4289	REDAPT 0° Cemented Screw In Trial Liner 36mm x 60mm
7135-4290	REDAPT 0° Cemented Screw In Trial Liner 36mm x 62mm
7135-4291	REDAPT 0° Cemented Screw In Trial Liner 36mm x 64mm
7135-4292	REDAPT 0° Cemented Screw In Trial Liner 36mm x 66-68mm
7135-4293	REDAPT 0° Cemented Screw In Trial Liner 36mm x 70-74mm
7135-4294	REDAPT 0° Cemented Screw In Trial Liner 36mm x 76-80mm
7135-4295	REDAPT 0° Cemented Screw In Trial Liner 40mm x 58mm
7135-4298	REDAPT 0° Cemented Screw In Trial Liner 40mm x 60mm
7135-5325	REDAPT 0° Cemented Screw In Trial Liner 40mm x 62mm
7135-5326	REDAPT 0° Cemented Screw In Trial Liner 40mm x 64mm
7135-5327	REDAPT 0° Cemented Screw In Trial Liner 40mm x 66-68mm
7135-5328	REDAPT 0° Cemented Screw In Trial Liner 40mm x 70-74mm
7135-5329	REDAPT 0° Cemented Screw In Trial Liner 40mm x 76-80mm
7135-4601	REDAPT Anteverted Cemented Screw In Trial Liner 28mm x 48mm
7135-4602	REDAPT Anteverted Cemented Screw In Trial Liner 28mm x 50mm
7135-4605	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 50mm
7135-4606	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 52mm
7135-4607	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 54mm
7135-4613	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 54mm
7135-4614	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 56mm
7135-4615	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 58mm
7135-4616	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 60mm
7135-4617	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 62mm
7135-4618	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 64mm
7135-4619	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 66-68mm
7135-4621	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 70-74mm
7135-4622	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 76-80mm
7135-4623	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 58mm
7135-4624	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 60mm
7135-4625	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 62mm
7135-4626	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 64mm
7135-4627	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 66-68mm
7135-4628	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 70-74mm
7135-4629	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 76-80mm

R3° Trial Shells

Small size	
Cat. no.	**OD (mm)**
7136-0739	39
7136-0740	40
7136-0741	41
7136-0742	42
7136-0743	43
7136-0744	44

Large size	
Cat. no.	**OD (mm)**
7136-0765	65
7136-0766	66
7136-0767	67
7136-0768	68
7136-6524	69
7136-6525	70

Standard size	
Cat. no.	**OD (mm)**
7136-0745	45
7136-0746	46
7136-0747	47
7136-0748	48
7136-0749	49
7136-0750	50
7136-0751	51
7136-0752	52
7136-0753	53
7136-0754	54
7136-0755	55
7136-0756	56
7136-0757	57
7136-0758	58
7136-0759	59
7136-0760	60
7136-0761	61
7136-0762	62
7136-0763	63
7136-0764	64

Jumbo size	
Cat. no.	**OD (mm)**
7136-2771	71
7136-2772	72
7136-2773	73
7136-2774	74
7136-2775	75
7136-2776	76
7136-2777	77
7136-2778	78
7136-2779	79
7136-2780	80

R3 Liner Impactor Heads	
Cat. no.	**Size mm**
7136-6428*	28
7136-6432*	32
7136-6436*	36
7136-6438*	38-42

*Exclusively for liner insertion

Catalog *continued*

Reamer Domes

Small size	
Cat. no.	**OD (mm)**
7136-2738	38
7136-2739	39
7136-2740	40
7136-2741	41

Standard size	
Cat. no.	**OD (mm)**
7136-2742	42
7136-2743	43
7136-2744	44
7136-2745	45
7136-2746	46
7136-2747	47
7136-2748	48
7136-2749	49
7136-2750	50
7136-2751	51
7136-2752	52
7136-2753	53
7136-2754	54
7136-2755	55
7136-2756	56
7136-2757	57
7136-2758	58
7136-2759	59
7136-2760	60
7136-2761	61
7136-2762	62
7136-2763	63
7136-2764	64

Large size	
Cat. no.	**OD (mm)**
7136-2765	65
7136-2766	66
7136-2767	67
7136-2768	68
7136-2769	69
7136-2770	70
7136-2771	71
7136-2772	72
7136-2773	73
7136-2774	74
7136-2775	75
7136-2776	76
7136-2777	77
7136-2778	78
7136-2779	79
7136-2780	80

Tray information	
Cat. no.	**Description**
7135-5119	REDAPT® Revision Acetabular Tray Lid
7135-5115	REDAPT Revision Acetabular General Instrument Tray
7135-5116	REDAPT Revision Acetabular 36ID 0° Cemented Liner Trial Tray
7135-5122	REDAPT Revision Acetabular 36ID Anteverted Cemented Liner Trial Tray
7135-5117	REDAPT Revision Acetabular 28/32ID Cemented Liner Trial Tray
7135-5118	REDAPT Revision Acetabular 40ID 0° Cemented Liner Trial Tray
7135-5124	REDAPT Revision Acetabular 40ID Anteverted Cemented Liner Trial Tray

R3° Straight Shell Impactor/Positioner **Cat. no.** 7136-4450	
R3 Impactor Replacement Tip **Cat. no.** 7136-8570	
R3 Depth Gauge **Cat. no.** 7136-4451	
X-Bar **Cat. no.** MT-2201	
Screw Forceps **Cat. no.** 7136-2298	
Ball Joint Screwdriver **Cat. no.** 7136-2295	
REDAPT° Drill Guide **Cat. no.** 7135-5121	
Reamer Handle **Cat. no.** 7136-2279	
Flexible Screw Drills **Cat. no.** **Length mm** 7136-2915 15 7136-2925 25 7136-2935 35 7136-2950 50	
Captured Flexible Screwdriver Shaft **Cat. no.** 7136-2291	
Captured U-Joint Screwdriver Shaft **Cat. no.** 7136-2292	
Torque Limiter **Cat. no.** 7135-4299	
Trial Shell Handle **Cat. no.** 7136-2297	
Flexible Screwdriver **Cat. no.** 7136-2290	

Catalog *continued*

Ratchet Handle **Cat. no.** 7136-2294	
Small Slap Hammer **Cat. no.** 7136-7541	
Straight Screwdriver Shaft **Cat. no.** 7136-2293	
Power Adaptors (not shown) **Cat. no.** 7136-2781 7136-2782 7136-2783	

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