Surgical Technique

smith&nephew

REDAPT◇

Revision Acetabular System
Fully Porous Shell

CONCELOC◇

Advanced Porous Titanium

Design surgeon list

Smith & Nephew thanks the following surgeons for their participation as part of the REDAPT◇ Revision Acetabular System design team:

Dr. Robert Bourne
London, Ontario
London Health Sciences, Univ. of Western Ontario

Dr. Richard McCalden
London, Ontario
London Health Sciences, University of Western Ontario

Dr. Andrew Shinar
Nashville, TN
Vanderbilt Orthopaedics

Dr. Scott Marwin
New York, NY
NYU-Hospital Joint Diseases

Dr. Steven Weeden
Fort Worth, TX
The Texas Hip & Knee Center

Dr. Mathias Bostrom
New York, NY
Hospital for Special Surgery

Dr. John Masonis
Charlotte, NC
OrthoCarolina

Dr. James Waddell
Toronto, Ontario
University of Toronto, St. Michael's Hospital

Dr. Craig Della Valle
Chicago, IL
Midwest Orthopaedics at RUSH

Mr. Stephen Jones
Cardiff, UK
Univ. Hosp. of Wales and Univ. Hosp. Llandough

Dr. David Campbell
Adelaide, South Australia
Wakefield Ortho. Clinic

Prof. Christian Götze
Bad Oeynhausen, Germany
Auguste-Viktoria-Klinik

Nota Bene:
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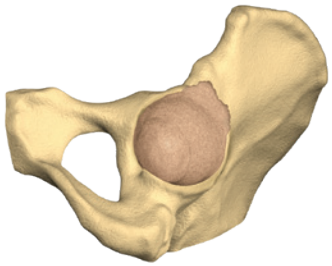
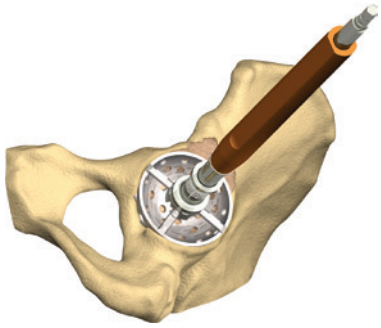
Short technique

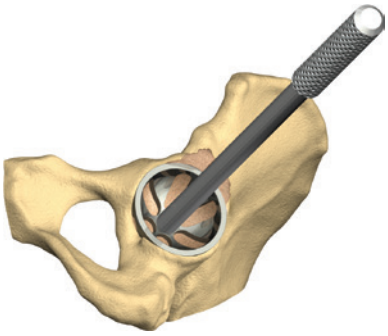
1. Preoperative planning



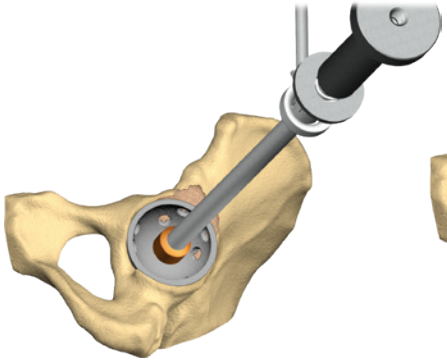
2. Remove existing components



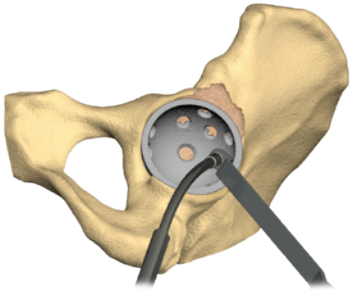
3. Acetabular reaming



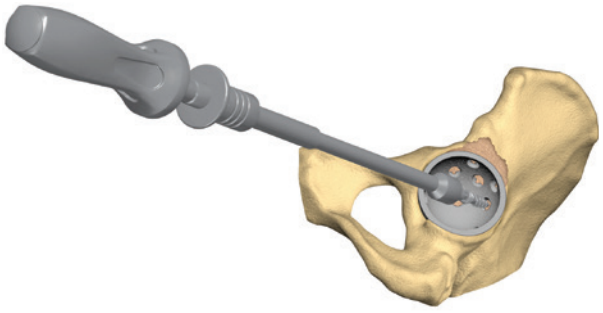
4. Acetabular trialing



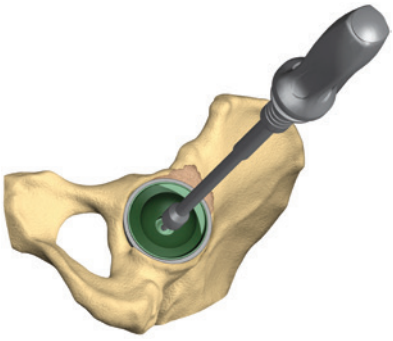
5. Shell insertion



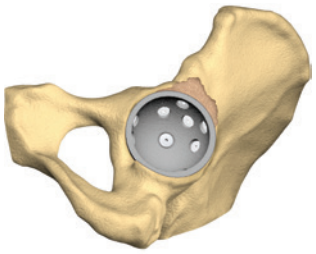
6. Pre-drill for screws



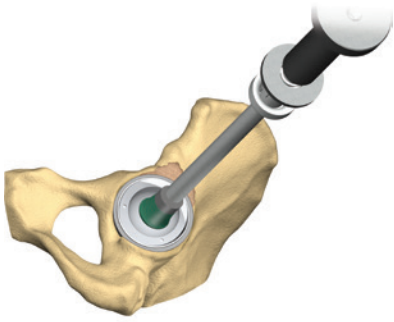
7. Screw insertion



8. Trial liner assessment



9. Hole cover placement



10. Cement liner

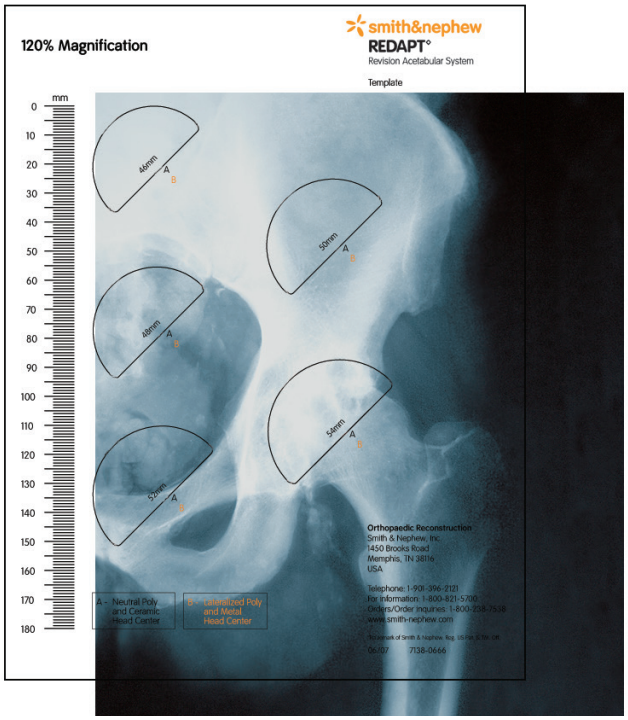
Preoperative planning

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 AP of the pelvis centered over the symphysis and an AP 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:

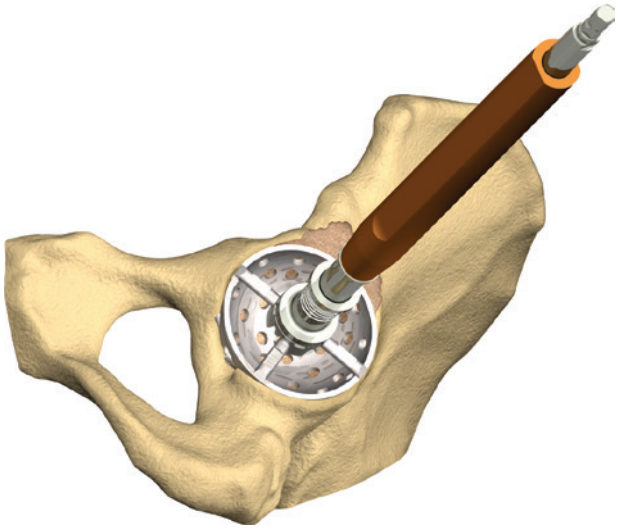
- Take note of original shell position relative to existing landmarks

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 (71380701).

Acetabular reaming



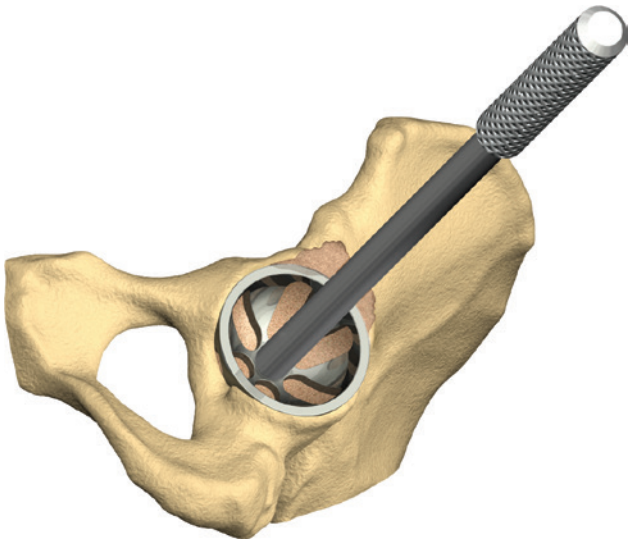
Once implants are removed, the acetabulum should be reamed to receive the REDAPT® Fully Porous Shell. The provided reamers should be used to carefully prepare a hemisphere to receive the REDAPT Fully Porous Shell. Depending upon the quality of the host bone and surgeon assessment of defect classification, 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:

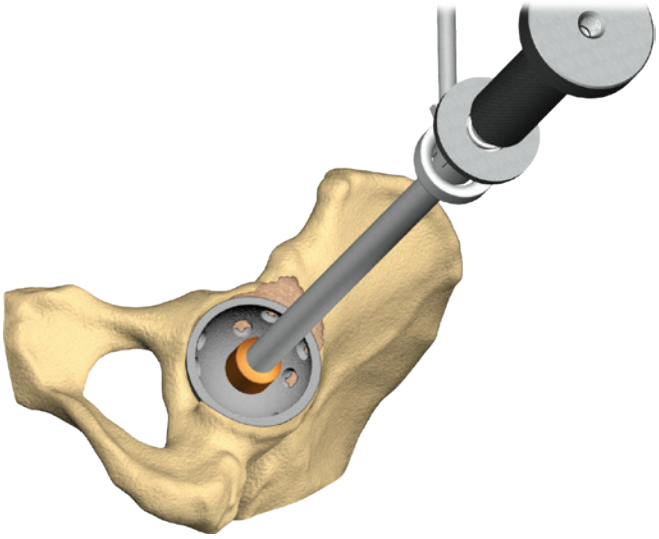
- Anticipate minimal reaming for revision procedures.
- Adhere to the preoperative plan and take care not to chase defects or ream beyond the width of the anterior or posterior columns.
- Avoid proximal reaming which raises the center of rotation.
- Many surgeons realize that 2mm of press fit or up to 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 (71362297) 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 pages 9 and 10 for proper technique.*

Acetabular shell insertion



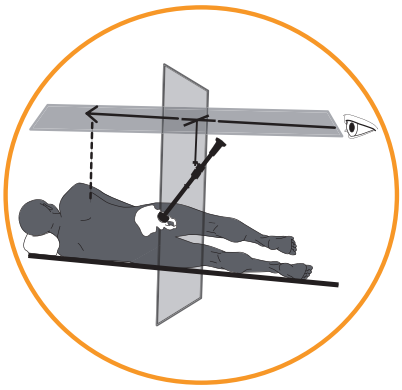
After trialing, select the corresponding size acetabular shell and affix to the Shell Positioner/ Impactor (71364450). Care should be exercised to introduce the shell at the desired inclination and version angles. Once the desired positioning of the shell is achieved, a mallet is used to impact the shell. 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.

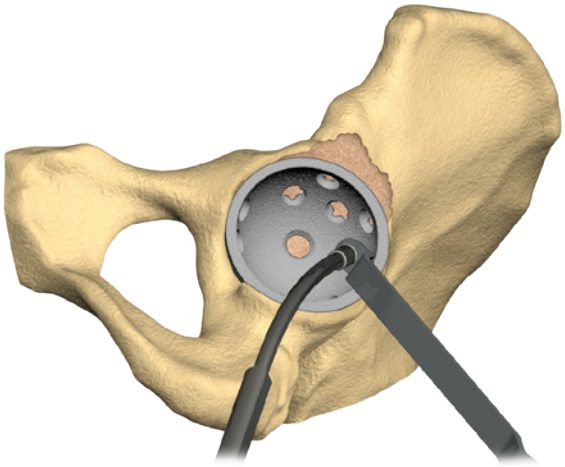
Instrument tips:

- 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 (71355121) 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

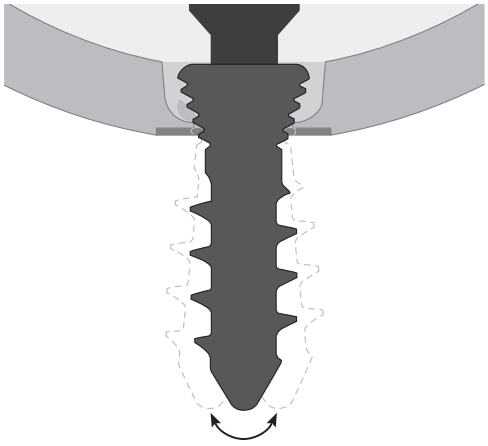
Use the screw forceps to hold the screw. Attach the ball-joint or flexible screwdriver shaft to the end of the screw. Then introduce the screw into the hole and screw it into place using the ratcheting screwdriver handle. Make sure the screw is fully seated within the screw hole so that it will not impinge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

Locking screws

The Torque Limiting Driver (71354299) 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.

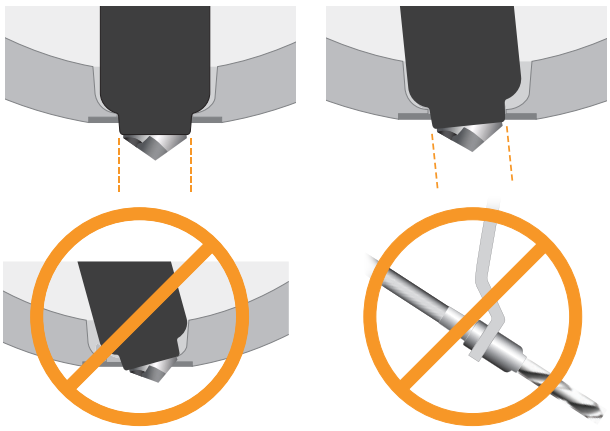
Surgical tips:

- 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.
- 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:

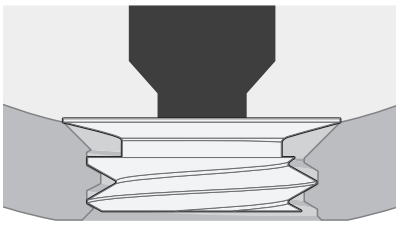
- The tip of the REDAPT drill guide must be fully seated in the screw hole.

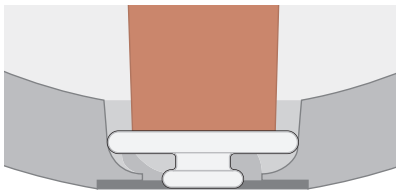


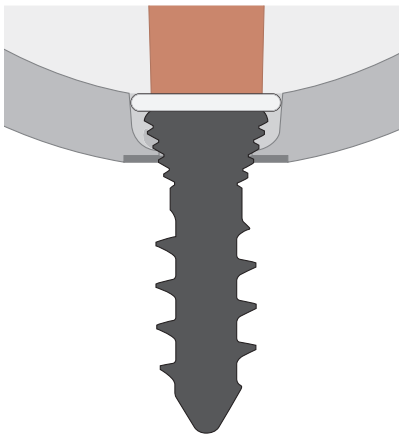
Reduction/range of motion assessment
A Cemented Liner Trial can be used to perform a trial reduction at this time. The proper size trial liner should be selected to correspond with the implanted shell. When using the trial liners, to ensure that they do not rotate, it is important that the trial liner be firmly held in place by hand while using the screwdriver to tighten the apex screw of the trial liner into the shell. 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 (71330001) into the threaded apex hole.

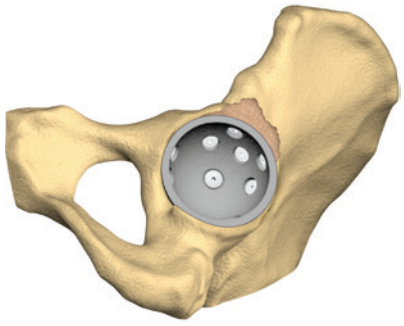
Hole covers
The supplied hole covers can be used to fill any unused screw holes to protect against cement migration through the shell. Additionally, hole covers can be inserted into the hexes of screw heads and threaded apex hole cover placed in the shell to protect against cement intrusion into the 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.
- 71330001 R3°/REFLECTION° Threaded Hole Cover is the only threaded apex hole cover that should be threaded into the apex hole feature.

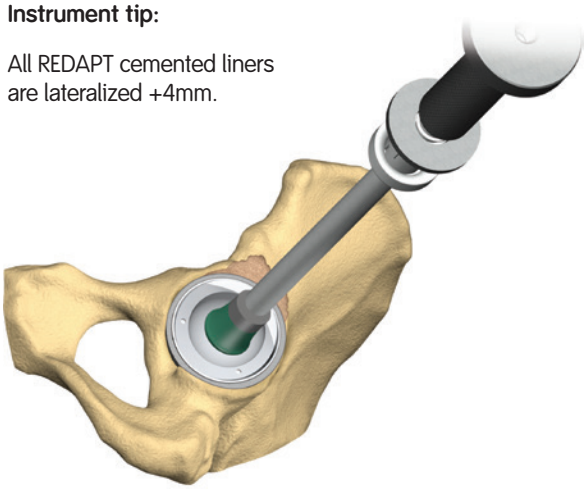
Acetabular liner insertion

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-en). 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**
71354228	REDAPT Fully Porous Shell 48mm	48mm	40mm	4mm
71354229	REDAPT Fully Porous Shell 50mm	50mm	42mm	4mm
71354231	REDAPT Fully Porous Shell 52mm	52mm	44mm	4mm
71354232	REDAPT Fully Porous Shell 54mm	54mm	46mm	4mm
71354233	REDAPT Fully Porous Shell 56mm	56mm	48mm	4mm
71354234	REDAPT Fully Porous Shell 58mm	58mm	50mm	4mm
71354235	REDAPT Fully Porous Shell 60mm	60mm	52mm	4mm
71354236	REDAPT Fully Porous Shell 62mm	62mm	54mm	4mm
71354237	REDAPT Fully Porous Shell 64mm	64mm	56mm	4mm
71354238	REDAPT Fully Porous Shell 66mm	66mm	58mm	4mm
71354239	REDAPT Fully Porous Shell 68mm	68mm	58mm	5mm
71354241	REDAPT Fully Porous Shell 70mm	70mm	62mm	4mm
71354242	REDAPT Fully Porous Shell 72mm	72mm	62mm	5mm
71354243	REDAPT Fully Porous Shell 74mm	74mm	62mm	6mm
71354244	REDAPT Fully Porous Shell 76mm	76mm	68mm	4mm
71354245	REDAPT Fully Porous Shell 78mm	78mm	68mm	5mm
71354246	REDAPT Fully Porous Shell 80mm	80mm	68mm	6mm

POLARCUP® Cemented		
Item	**Description**	**Size**
75100451	Stainless steel (Cemented)	43mm
75100452	Stainless steel (Cemented)	45mm
75100453	Stainless steel (Cemented)	47mm
75100454	Stainless steel (Cemented)	49mm
75100455	Stainless steel (Cemented)	51mm
75100456	Stainless steel (Cemented)	53mm
75100457	Stainless steel (Cemented)	55mm
75100458	Stainless steel (Cemented)	57mm
75100459	Stainless steel (Cemented)	59mm
75100460	Stainless steel (Cemented)	61mm
75100461	Stainless steel (Cemented)	63mm

REDAPT® Cemented Liners	
Item	**Description**
71354533	REDAPT 0° Cemented XLPE Liner 28mm x 48mm
71354534	REDAPT 0° Cemented XLPE Liner 28mm x 50mm
71354521	REDAPT 0° Cemented XLPE Liner 32mm x 50mm
71354537	REDAPT 0° Cemented XLPE Liner 32mm x 52mm
71354538	REDAPT 0° Cemented XLPE Liner 32mm x 54mm
71354522	REDAPT 0° Cemented XLPE Liner 36mm x 54mm
71354543	REDAPT 0° Cemented XLPE Liner 36mm x 56mm
71354544	REDAPT 0° Cemented XLPE Liner 36mm x 58mm
71354545	REDAPT 0° Cemented XLPE Liner 36mm x 60mm
71354546	REDAPT 0° Cemented XLPE Liner 36mm x 62mm
71354547	REDAPT 0° Cemented XLPE Liner 36mm x 64mm
71354548	REDAPT 0° Cemented XLPE Liner 36mm x 66-68mm
71354549	REDAPT 0° Cemented XLPE Liner 36mm x 70-74mm
71354550	REDAPT 0° Cemented XLPE Liner 36mm x 76-80mm
71354523	REDAPT 0° Cemented XLPE Liner 40mm x 58mm
71354551	REDAPT 0° Cemented XLPE Liner 40mm x 60mm
71354552	REDAPT 0° Cemented XLPE Liner 40mm x 62mm
71354553	REDAPT 0° Cemented XLPE Liner 40mm x 64mm
71354554	REDAPT 0° Cemented XLPE Liner 40mm x 66-68mm
71354555	REDAPT 0° Cemented XLPE Liner 40mm x 70-74mm
71354556	REDAPT 0° Cemented XLPE Liner 40mm x 76-80mm
71354248	REDAPT Anteverted Cemented XLPE Liner 28mm x 48mm
71354249	REDAPT Anteverted Cemented XLPE Liner 28mm x 50mm
71354222	REDAPT Anteverted Cemented XLPE Liner 32mm x 50mm
71354252	REDAPT Anteverted Cemented XLPE Liner 32mm x 52mm
71354253	REDAPT Anteverted Cemented XLPE Liner 32mm x 54mm
71354224	REDAPT Anteverted Cemented XLPE Liner 36mm x 54mm
71354258	REDAPT Anteverted Cemented XLPE Liner 36mm x 56mm
71354259	REDAPT Anteverted Cemented XLPE Liner 36mm x 58mm
71354260	REDAPT Anteverted Cemented XLPE Liner 36mm x 60mm
71354261	REDAPT Anteverted Cemented XLPE Liner 36mm x 62mm
71354262	REDAPT Anteverted Cemented XLPE Liner 36mm x 64mm
71354263	REDAPT Anteverted Cemented XLPE Liner 36mm x 66-68mm
71354264	REDAPT Anteverted Cemented XLPE Liner 36mm x 70-74mm
71354265	REDAPT Anteverted Cemented XLPE Liner 36mm x 76-80mm
71354226	REDAPT Anteverted Cemented XLPE Liner 40mm x 58mm
71354266	REDAPT Anteverted Cemented XLPE Liner 40mm x 60mm
71354267	REDAPT Anteverted Cemented XLPE Liner 40mm x 62mm
71354268	REDAPT Anteverted Cemented XLPE Liner 40mm x 64mm
71354269	REDAPT Anteverted Cemented XLPE Liner 40mm x 66-68mm
71354270	REDAPT Anteverted Cemented XLPE Liner 40mm x 70-74mm
71354271	REDAPT Anteverted Cemented XLPE Liner 40mm x 76-80mm

Hole Covers	
Cat. no.	**Description**
71354240	REDAPT® Hole Cover Kit
71330001	R3®/REFLECTION® Threaded Hole Cover

Spherical Head Screws	
Cat. no.	**Length (mm)**
71332515	15
71332520	20
71332525	25
71332530	30
71332535	35
71332540	40
71332545	45
71332550	50

REDAPT Locking Screws	
Cat. no.	**Length (mm)**
71354502	15
71354503	20
71354504	25
71354505	30
71354506	35
71354507	40
71354508	45
71354509	50

REDAPT® Trial Liner Offerings	
Item	**Description**
71354277	REDAPT 0° Cemented Screw In Trial Liner 28mm x 48mm
71354278	REDAPT 0° Cemented Screw In Trial Liner 28mm x 50mm
71354296	REDAPT 0° Cemented Screw In Trial Liner 32mm x 50mm
71354281	REDAPT 0° Cemented Screw In Trial Liner 32mm x 52mm
71354282	REDAPT 0° Cemented Screw In Trial Liner 32mm x 54mm
71354297	REDAPT 0° Cemented Screw In Trial Liner 36mm x 54mm
71354287	REDAPT 0° Cemented Screw In Trial Liner 36mm x 56mm
71354288	REDAPT 0° Cemented Screw In Trial Liner 36mm x 58mm
71354289	REDAPT 0° Cemented Screw In Trial Liner 36mm x 60mm
71354290	REDAPT 0° Cemented Screw In Trial Liner 36mm x 62mm
71354291	REDAPT 0° Cemented Screw In Trial Liner 36mm x 64mm
71354292	REDAPT 0° Cemented Screw In Trial Liner 36mm x 66-68mm
71354293	REDAPT 0° Cemented Screw In Trial Liner 36mm x 70-74mm
71354294	REDAPT 0° Cemented Screw In Trial Liner 36mm x 76-80mm
71354295	REDAPT 0° Cemented Screw In Trial Liner 40mm x 58mm
71354298	REDAPT 0° Cemented Screw In Trial Liner 40mm x 60mm
71355325	REDAPT 0° Cemented Screw In Trial Liner 40mm x 62mm
71355326	REDAPT 0° Cemented Screw In Trial Liner 40mm x 64mm
71355327	REDAPT 0° Cemented Screw In Trial Liner 40mm x 66-68mm
71355328	REDAPT 0° Cemented Screw In Trial Liner 40mm x 70-74mm
71355329	REDAPT 0° Cemented Screw In Trial Liner 40mm x 76-80mm
71354601	REDAPT Anteverted Cemented Screw In Trial Liner 28mm x 48mm
71354602	REDAPT Anteverted Cemented Screw In Trial Liner 28mm x 50mm
71354605	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 50mm
71354606	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 52mm
71354607	REDAPT Anteverted Cemented Screw In Trial Liner 32mm x 54mm
71354613	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 54mm
71354614	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 56mm
71354615	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 58mm
71354616	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 60mm
71354617	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 62mm
71354618	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 64mm
71354619	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 66-68mm
71354621	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 70-74mm
71354622	REDAPT Anteverted Cemented Screw In Trial Liner 36mm x 76-80mm
71354623	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 58mm
71354624	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 60mm
71354625	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 62mm
71354626	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 64mm
71354627	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 66-68mm
71354628	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 70-74mm
71354629	REDAPT Anteverted Cemented Screw In Trial Liner 40mm x 76-80mm

R3° Trial Shells

Small size	
Cat. no.	OD (mm)
71360739	39
71360740	40
71360741	41
71360742	42
71360743	43
71360744	44

Large size	
Cat. no.	OD (mm)
71360765	65
71360766	66
71360767	67
71360768	68
71366524	69
71366525	70

Standard size	
Cat. no.	OD (mm)
71360745	45
71360746	46
71360747	47
71360748	48
71360749	49
71360750	50
71360751	51
71360752	52
71360753	53
71360754	54
71360755	55
71360756	56
71360757	57
71360758	58
71360759	59
71360760	60
71360761	61
71360762	62
71360763	63
71360764	64

Jumbo size	
Cat. no.	OD (mm)
71362771	71
71362772	72
71362773	73
71362774	74
71362775	75
71362776	76
71362777	77
71362778	78
71362779	79
71362780	80

R3 Liner Impactor Heads	
Cat. no.	Size mm
71366428*	28
71366432*	32
71366436*	36
71366438*	38-42

*Exclusively for liner insertion

Catalog *continued*

Reamer Domes

Small size	
Cat. no.	**OD (mm)**
71362738	38
71362739	39
71362740	40
71362741	41

Standard size	
Cat. no.	**OD (mm)**
71362742	42
71362743	43
71362744	44
71362745	45
71362746	46
71362747	47
71362748	48
71362749	49
71362750	50
71362751	51
71362752	52
71362753	53
71362754	54
71362755	55
71362756	56
71362757	57
71362758	58
71362759	59
71362760	60
71362761	61
71362762	62
71362763	63
71362764	64

Large size	
Cat. no.	**OD (mm)**
71362765	65
71362766	66
71362767	67
71362768	68
71362769	69
71362770	70
71362771	71
71362772	72
71362773	73
71362774	74
71362775	75
71362776	76
71362777	77
71362778	78
71362779	79
71362780	80

Tray information	
Cat. no.	**Description**
71355119	REDAPT® Revision Acetabular Tray Lid
71355115	REDAPT Revision Acetabular General Instrument Tray
71355116	REDAPT Revision Acetabular 36ID 0° Cemented Liner Trial Tray
71355122	REDAPT Revision Acetabular 36ID Anteverted Cemented Liner Trial Tray
71355117	REDAPT Revision Acetabular 28/32ID Cemented Liner Trial Tray
71355118	REDAPT Revision Acetabular 40ID 0° Cemented Liner Trial Tray
71355124	REDAPT Revision Acetabular 40ID Anteverted Cemented Liner Trial Tray

R3° Straight Shell Impactor/Positioner **Cat. no.** 71364450	
R3 Impactor Replacement Tip **Cat. no.** 71368570	
R3 Depth Gauge **Cat. no.** 71364451	
X-Bar **Cat. no.** MT-2201	
Screw Forceps **Cat. no.** 71362298	
Ball Joint Screwdriver **Cat. no.** 71362295	
REDAPT° Drill Guide **Cat. no.** 71355121	
Reamer Handle **Cat. no.** 71362279	
Flexible Screw Drills **Cat. no.** **Length mm** 71362915 15 71362925 25 71362935 35 71362950 50	
Captured Flexible Screwdriver Shaft **Cat. no.** 71362291	
Captured U-Joint Screwdriver Shaft **Cat. no.** 71362292	
Torque Limiter **Cat. no.** 71354299	
Trial Shell Handle **Cat. no.** 71362297	
Flexible Screwdriver **Cat. no.** 71362290	

Catalog *continued*

Ratchet Handle **Cat. no.** 71362294	
Small Slap Hammer **Cat. no.** 71367541	
Straight Screwdriver Shaft **Cat. no.** 71362293	
Power Adaptors (not shown) **Cat. no.** 71362781 71362782 71362783	

Implant constructs

REDAPT◇ Fully Porous Shells

Liners

REDAPT
Cemented XLPE
0 Degree Liners

REDAPT
Anteverted Cemented
XLPE Liners

POLARCUP◇
Cemented Shells*

Screws

REFLECTION◇
Spherical Head Screws

REDAPT
Locking Screws

REDAPT Cemented XLPE Liners

Shells

REDAPT
Fully Porous Shell

Femoral Heads

OXINIUM◇

Cobalt Chrome

Stainless Steel

BIOLOX® Delta

REDAPT Anteverted Cemented XLPE Liners

Shells

REDAPT
Fully Porous Shell

Femoral Heads

OXINIUM

Cobalt Chrome

Stainless Steel

BIOLOX® Delta

*The compatibility of REDAPT Fully Porous Shells with POLARCUP Cemented Shells is only available in the EU as part of a dual mobility construct.

Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Smith & Nephew representative or distributor if you have questions about the availability of Smith & Nephew products in your area.

Smith & Nephew, Inc.
1450 Brooks Road
Memphis, TN 38116
USA

Telephone: 1-901-396-2121
Information: 1-800-821-5700
Orders/inquiries: 1-800-238-7538

www.smith-nephew.com

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