Surgical Technique

smith&nephew

REDAPT◇

Revision Acetabular System
Modular 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:

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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. For more information on the products shown in this surgical technique, including indications for use, contraindications, effects, precautions and warnings, please consult the Instructions for Use (IFU) for the product.

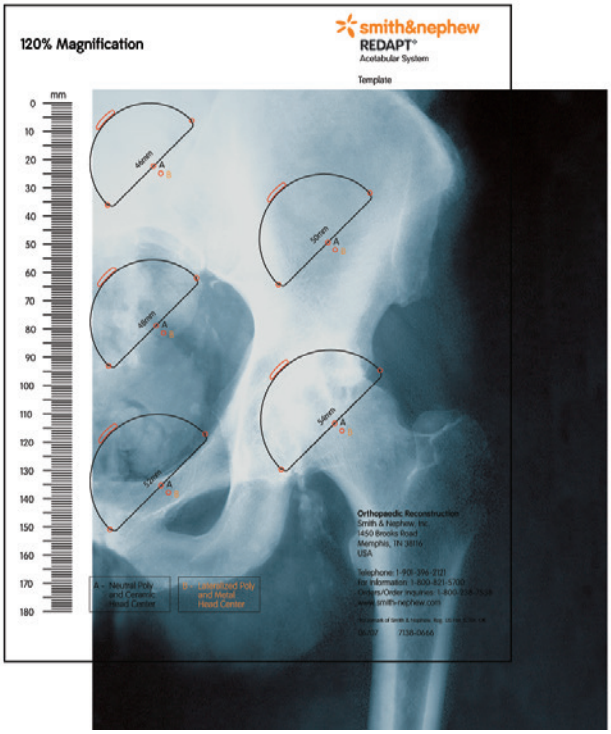
Preoperative planning

Preoperative X-rays should include an AP of the pelvis centered over the symphysis and an AP and lateral of the affected hip.

Templating 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 also should be marked for subsequent reference.



Surgical tips:

- To minimize the need of assistance, each of the acetabular retractors can be tied directly to a Charnley retractor.
- Dividing the transverse acetabular ligament will allow reaming to begin inferiorly, limiting the tendency of the reamer to migrate superiorly.
- Removal of soft tissue and overhanging osteophytes from the foveal notch aids visualization of the quadrilateral plate and the depth that the acetabulum should be reamed.

Acetabular exposure

Complete exposure of the acetabulum is required, regardless of the type of approach. Use the approach with which you are most familiar and achieve the best surgical results.

First, resect the acetabular labrum and place a blunt retractor anteriorly.

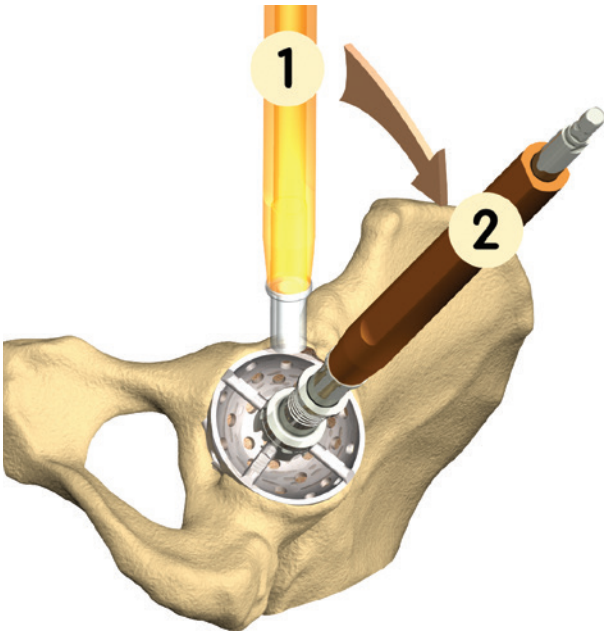
After identifying the transverse acetabular ligament, place a blunt retractor around the inferior margin of the acetabulum.

Depending on the exposure, a third retractor can be placed posteriorly following the excision of the labrum.

Remove all overhanging soft tissue and osteophytes in order to visualize the entire acetabular socket.

The acetabulum should be medialized to restore the normal center of hip rotation.

Acetabular reaming



Select an acetabular reamer that is considerably smaller than the templated size of the shell. Generally, reaming 6–8mm lower than the templated size is suitable.

Position the initial reamer in a vertical direction (1) to ensure the reamer is taken down to the medial wall.

Direct the second reamer and all subsequent reamers in approximately 45° of abduction and 20° of anteversion or at the surgeon's desired acetabular shell orientation for final position of the acetabular component. (2)

Preserve subchondral bone to provide good support for the prosthesis. This might mean the reamer will not be medialized all the way to the inner wall.

Frequently palpate the posterior and anterior walls of the acetabulum during the reaming process as these walls will determine the largest acetabular size that can be accommodated. Avoid allowing the reamer to drift posteriorly where the bone might be less dense and the path of least resistance for the reamer.

To press-fit an REDAPT Modular Shell, the acetabulum can either be under-reamed by 1mm or may be reamed line-to-line depending on the bone quality and size of the acetabulum.

Surgical tips:

- Each successive reamer must be fully seated within the acetabulum. Failure to do so will result in lateralization of the trial and exposure of the porous coating. If lateralization occurs, go back to a smaller reamer and begin again, checking each size to ensure that the reamers are fully seated.
- Increasing the reamer size by 2mm is recommended, although in smaller patients 1mm increments may be preferred.

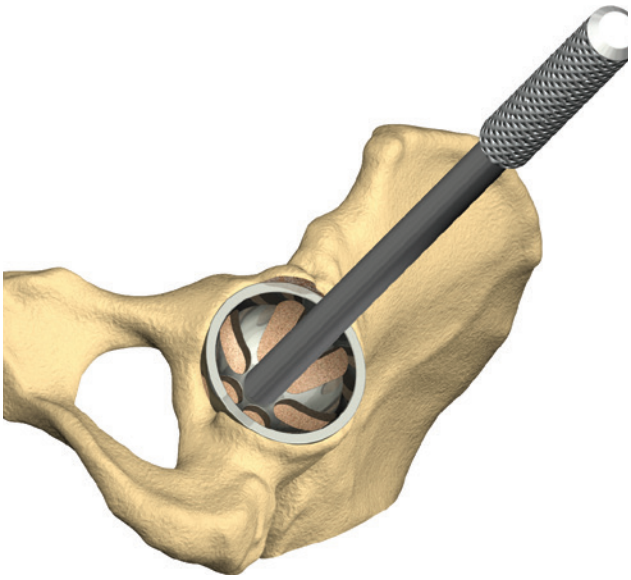
Note:

Teeth on the reamer domes do not extend all the way to the periphery. As a result, once the surgeon has reamed to the proper size, drop down to a smaller sized reamer to dust the rim at the periphery.

Instrument tips:

- The acetabular reamer has an open back, which helps visualize reaming and allows easy access to bone chips. This style of reamer is hemispherical and when fully seated it should be covered by the rim of the acetabulum.
- Gently rock the reamer handle back and forth approximately 5° for last size used only to ensure rim is accurate for the desired press-fit.

Acetabular trialing



After the preparation of the acetabulum, the trial shell should be inserted to verify size and position of the shell. Use a trial acetabular shell that is the same diameter as the last reamer used. The surgeon should note the appropriate orientation of the acetabular trial to position the shell correctly. The trial should be congruent with the reamed acetabular cavity and bottom out without significant force required to seat it.

A trial liner insert cannot be inserted into a trial shell for trial reduction.

If trial reduction using a trial insert is desired at this time, then the preparation of the femur should occur up until the trial reduction stage. The surgeon then has the option of inserting a trial acetabular liner (preferred) in the acetabular implant for subsequent leg length, offset and stability assessments or the real acetabular insert.

Select appropriate type and size component based on anatomical and biomechanical factors such as patient age and activity levels, weight, bone and muscle conditions.

Generally the largest cross-section component that will allow adequate bone support to be maintained is preferred. Muscle looseness and/or malpositioning of the components may result in loosening, subluxation, dislocation, fracture of components and/or bone. Firmly seat all components and check for component looseness during surgery.

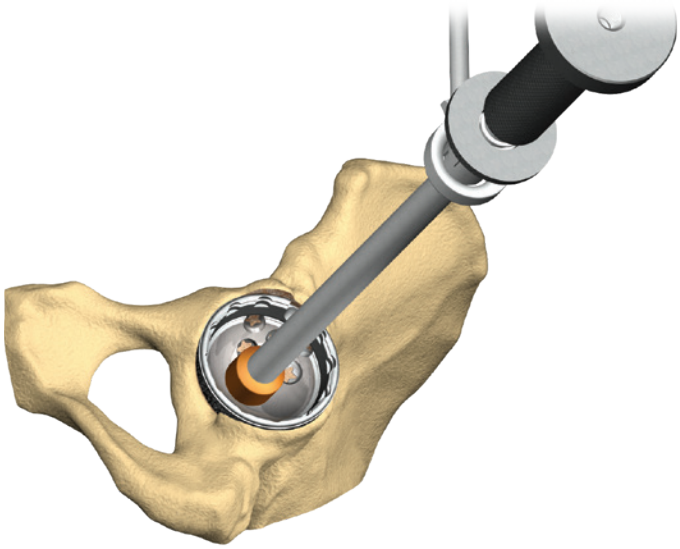
Surgical tip:

- The bone at the edge of the trial shell can be marked with an electric cautery to help in final component positioning.

Instrument tip:

- The trial shells are the exact size specified. They can be used to assess the accuracy of reaming or can be press-fit into the acetabulum if using a larger size than the final reamer.

Acetabular shell insertion



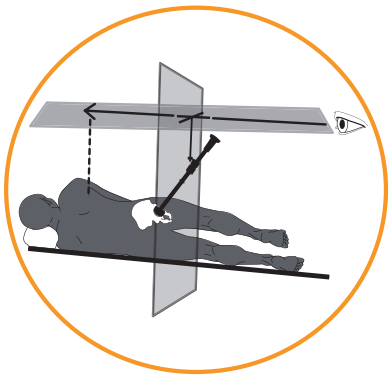
Surgical tip:

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

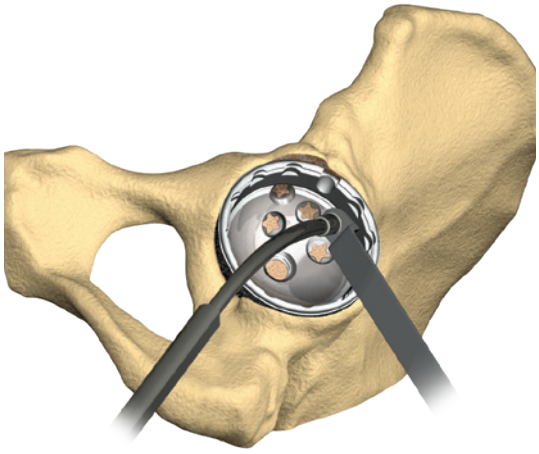
After trialing, select the corresponding size acetabular shell and affix to the Shell Impactor/ Impactor (71364450). Care should be exercised to introduce the shell at the desired inclination and version angles. Once the desired positioning of the shell is achieved, a mallet is used to impact the shell.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

Instrument tips:

- The acetabular shell should be securely threaded onto the impactor.
- Use supplied alignment guide to assess shell version and inclination.



Acetabular screw insertion



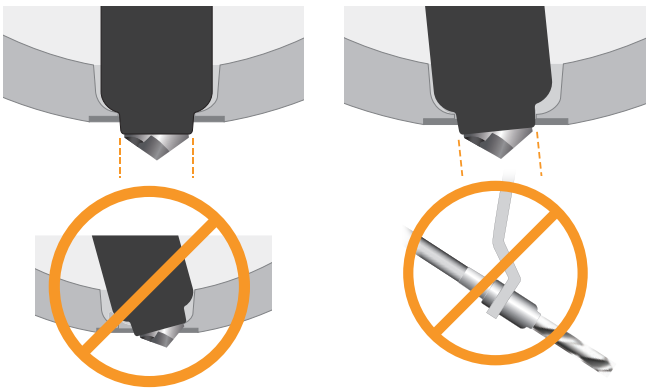
Screws can be used to augment fixation and further secure the shell. For screw fixation, each screw hole must be pre-drilled. **When drilling to prepare for screw holes, the REDAPT° Drill Guide (71355121) must be used.** If the tip is not fully seated, damage to the locking tabs may occur, the limits 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 Modular Shell provides multiple opportunities for fixation to host bone. Care should be taken to orientate 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.

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 Modular Shell.

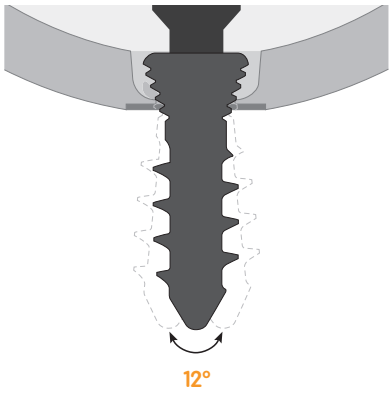
Locking screws

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. 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 Modular Shell.**
- The use of radiographic imaging may facilitate precise screw placement.

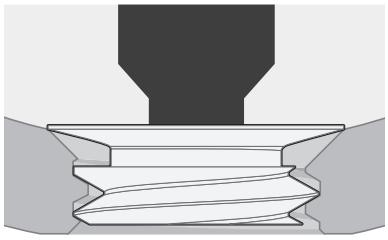


Instrument tips:

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

Acetabular screw insertion *(continued)*

Reduction/range of motion assessment
An R3 Poly Trial Liner 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. 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.



Surgical tip:

- 71330001 R3°/REFLECTION° Threaded Hole Cover is the only threaded apex hole cover that should be threaded into the apex hole feature of REDAPT Modular Shells.

R3◇ acetabular liner insertion

A trial reduction should be performed with the final shell and broach in place to appropriately assess head length, stem offset, liner style and position. With XLPE liners, use of 'skirted' modular heads should be avoided when possible to maximize range of motion.

Before inserting the R3 acetabular liner, cover the apex hole with the threaded hole cover (71330001). Using the straight screwdriver, screw in the hole cover until it stops and is flush with the inner diameter of the shell.

For XLPE liner insertion, screw the appropriate sized liner impactor head on the end of the shell impactor handle and ensure that the tabs on the liner are aligned with the indentions in the shell. Ensure all soft tissue and osteophytes have been removed from the periphery of the shell to avoid interference with the liner lock.

Wipe the shell ID with a lap sponge or gauze until clean and dry. **Press the liner impactor firmly** until liner is partially locked. Then use light, repetitive impacts with the mallet until the liner is fully seated.

Inspect the liner/shell interface for proper seating. The liner should sit flush with the face of the shell.

Surgical tips:

- Running a finger around the circumference of the shell and a visual check will help determine if the liner is flush with the shell face.
- The XLPE liner requires an impaction force between 60 and 120 pounds, increasing with the diameter of the shell.
- The XLPE liner can be removed and repositioned once without compromising the locking mechanism of the liner. To remove R3 liners, insert the liner removal tool fully into the removal slot and pry or impact the liner loose.
- All R3 Anteverted XLPE Liners are lateralized **+4mm**

Instrument tips:

- The anteverted liner trials are designed with a central screw to facilitate placement. The central screw is tightened into the apex hole of the R3 shell. When using anteverted trial liners it is important that the trial be held firmly in place while using the screwdriver to tighten the screw in the anteverted trial liner into the apex hole of the R3 shell to maintain proper alignment of the anteverted trial liner Align tabs with indentions and tighten into position. **Do not force trial.**

Postoperative Care

Physician should provide appropriate postoperative directions and warnings to patients regarding their care. Weight-bearing status should be individualized with the non- or partial weight bearing period determined.

Patients should be warned against unassisted activity, particularly use of toilet facilities and other activities requiring excessive motion of the hip such as sitting in low chairs, crossing legs, low bending at waist, sharp twisting hip motion, etc.

Adequate support should be provided to the operative leg when moving the patient. While placing the patient on bedpans, changing dressings, clothing, or similar activities, precautions should be taken to avoid placing excessive load on the operative leg.

Periodic X-rays are recommended for close comparison with immediate postoperative conditions to detect long-term evidence of changes in position, loosening, bending and/or cracking of components or bone loss. Patient reports of squeaking or clicking should be carefully evaluated as they may indicate position changes in the components compromising the durability of the implants.

REDAPT◇ Modular Shell Liner offerings

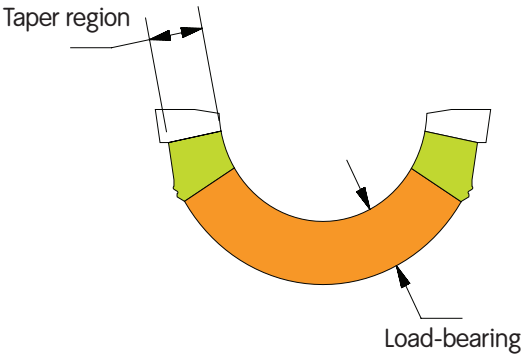
	R3◇ XLPE and Anteverted XLPE Liner (mm)					R3 BIOLOX® Delta Ceramic Liner (mm)		R3 Constrained Liner (mm)	
Shells	28	32	36	40	44**	32	36	22	28
48	●	●				●			
50	●	●	●*			●			
52	●	●	●				●	●	
54	●**	●**	●	●*			●	●	
56	●**	●**	●	●			●	●	
58	●**	●**	●	●			●	●	
60	●	●**	●	●	●		●		●
62		●	●	●	●		●		●
64			●	●	●		●		●
66			●	●	●		●		●
68			●	●	●		●		●
70			●	●	●				●
72			●	●	●				
74			●	●	●				
76			●	●	●				
78			●	●	●				
80			●	●	●				

*Anteverted liners only
**Excluding anteverted liners

Poly thickness chart (Neutral liners)

Shell OD	Poly ID	Poly Thickness Taper Region mm	Poly Thickness Load-Bearing Region mm
48	28	6.4	7.1
48	32	4.3	5.1
50	28	7.3	8.1
50	32	5.3	6.1
52	28	8.3	9.1
52	32	6.3	7.1
52	36	4.3	5.1
54	28	9.3	10.1
54	32	7.3	8.1
54	36	5.3	6.1
56	28	10.3	11.1
56	32	8.3	9.1
56	36	6.3	7.1
56	40	4.6	5.0
58	28	11.3	12.1
58	32	9.3	10.1
58	36	7.3	8.1
58	40	5.3	6.0
60	28	12.3	13.1
60	32	10.3	11.1
60	36	8.3	9.1
60	40	6.5	7.0
60	44	4.3	5.0

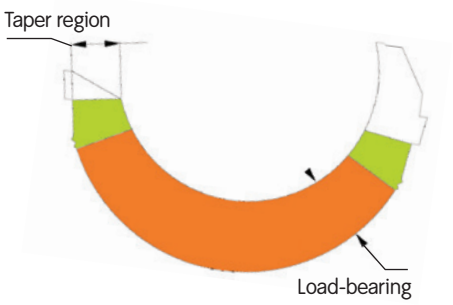
Shell OD	Poly ID	Poly Thickness Taper Region mm	Poly Thickness Load-Bearing Region mm
62	32	11.3	12.1
62	36	9.3	10.1
62	40	7.5	8.0
62	44	5.3	6.0
64	36	10.3	11.1
64	40	8.4	9.0
64	44	6.4	7.0
66-68	36	11.3	12.1
66-68	40	9.3	10.0
66-68	44	7.2	8.0
72-74	36	13.8	14.0
72-74	40	11.8	12.0
72-74	44	9.8	10.0
76-80	36	15.8	16.0
76-80	40	13.8	14.0
76-80	44	11.8	12.0



Poly thickness chart (Anteverted liners)

Shell OD	Poly ID	Poly Thickness Taper Region mm	Poly Thickness Load-Bearing Region mm
48	28	7.7	10.1
48	32	5.7	8.1
50	28	8.6	11.1
50	32	6.6	9.1
50	36	4.6	7.1
52	28	9.5	12.1
52	32	7.5	10.1
52	36	13.3	16.1
54	28	10.5	13.1
54	32	8.5	11.1
54	36	6.5	9.1
54	40	4.5	7.1
56	28	11.4	14.1
56	32	9.4	12.1
56	36	7.4	10.3
56	40	5.4	8.3
60	28	13.3	16.1
60	32	11.3	14.1
60	36	9.3	12.1
60	40	7.3	10.1
60	44	5.3	8.0
62	32	12.2	15.1
62	36	10.2	13.1
62	40	8.3	11.0

Shell OD	Poly ID	Poly Thickness Taper Region mm	Poly Thickness Load-Bearing Region mm
62	44	6.2	9.0
64	36	11.2	14.1
64	40	9.2	12.0
64	44	7.2	10.0
66-70	36	12.1	15.1
66-70	40	10.2	13.0
66-70	44	8.2	11.0
72-74	36	14.5	17.1
72-74	40	12.6	15.0
72-74	44	10.6	13.0
76-80	36	16.5	19.1
76-80	40	14.5	17.0
76-80	44	12.5	15.0



Catalog

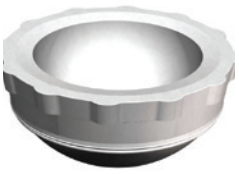
71352390 REDAPT® Modular Shell Core Sizes

Cat. no.	Description
71352348	REDAPT Modular Shell 48mm
71352350	REDAPT Modular Shell 50mm
71352352	REDAPT Modular Shell 52mm
71352354	REDAPT Modular Shell 54mm
71352356	REDAPT Modular Shell 56mm
71352358	REDAPT Modular Shell 58mm
71352360	REDAPT Modular Shell 60mm
71352362	REDAPT Modular Shell 62mm
71352364	REDAPT Modular Shell 64mm
71352366	REDAPT Modular Shell 66mm
71352368	REDAPT Modular Shell 68mm

71352340 REDAPT Modular Shell Jumbo Sizes

Cat. no.	Description
71352370	REDAPT Modular Shell 70mm
71352372	REDAPT Modular Shell 72mm
71352374	REDAPT Modular Shell 74mm
71352376	REDAPT Modular Shell 76mm
71352378	REDAPT Modular Shell 78mm
71352380	REDAPT Modular Shell 80mm

All implants are provided sterile and are for single use only. Unless otherwise noted, all instruments are provided non-sterile and are intended for re-use and resterilization. Refer to the instructions for cleaning and sterilizing reusable surgical instruments that are provided with Smith & Nephew Instrument sets.



R3° XLPE Acetabular Liners

ID	OD	0° XLPE Liner Cat. no.	20° XLPE Liner Cat. no.	0° +4 XLPE Liner Cat. no.	20°+4 XLPE Liner Cat. no.
28	48	71337548	71334948	71335948	71337748
28	50	71337550	71334950	71335950	71337750
28	52	71337552	71334952	71335952	71337752
28	54	71337554	71334954	71335954	71337754
28	56	71337556	71334956	71335956	71337756
28	58	71337558	71334958	71335958	71337758
28	60	71337560	71334960	71335960	71337760
32	48	71339548	71337648	71336648	71337948
32	50	71339550	71337650	71336650	71337950
32	52	71339552	71337652	71336652	71337952
32	54	71339554	71337654	71336654	71337954
32	56	71339556	71337656	71336656	71337956
32	58	71339558	71337658	71336658	71337958
32	60	71339560	71337660	71336660	71337960
32	62	71339562	71337662	71336662	71337962
36	52	71332752	71335752	71336952	71338552
36	54	71332754	71335754	71336954	71338554
36	56	71332756	71335756	71336956	71338556
36	58	71332758	71335758	71336958	71338558
36	60	71332760	71335760	71336960	71338560
36	62	71332762	71335762	71336962	71338562
36	64	71332764	71335764	71336964	71338564
36	66-70	71330766	71331266	71331566	71332666
36	72-74	71338686	71338694	71338703	71338712
36	76-80	71331103	71331112	71331114	71338946

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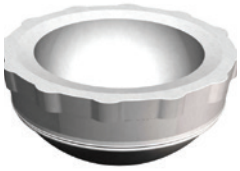
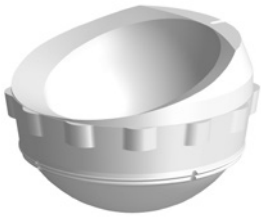


R3° XLPE Acetabular Liners (continued)

ID	OD	0° XLPE liner Cat. no.	20° XLPE liner Cat. no.	0° +4 XLPE liner Cat. no.	20°+4 XLPE liner Cat. no.
40	56	71338679	71338687	71338695	71338704
40	58	71338680	71338688	71338696	71338705
40	60	71338681	71338689	71338697	71338706
40	62	71338682	71338690	71338698	71338707
40	64	71338683	71338691	71338699	71338708
40	66-70	71338684	71338692	71338701	71338709
40	72-74	71338685	71338693	71338702	71338711
40	76-80	71331094	71331104	71331113	71331116
44	60	71331096	71331106	71330011	71331118
44	62	71331097	71331107	71330012	71331119
44	64	71331098	71331108	71330013	71331121
44	66-70	71331099	71331109	71330014	71331122
44	72-74	71331101	71331110	71330016	71331123
44	76-80	71331102	71331111	71330017	71331124



R3° XLPE Anteverted Liners

ID	OD	20°+4 XLPE anteverted liner Cat. no.
28	48	71332373
28	50	71332374
28	52	71332375
28	54	71332376
32	48	71332381
32	50	71332382
32	52	71332383
32	54	71332384

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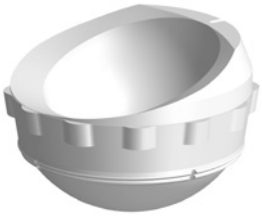
Catalog *(continued)*



R3° XLPE Anteverted Liners (continued

ID	OD	20°+4 XLPE anteverted liner Cat. no.
36	50	71332498
36	52	71332401
36	54	71332402
36	56	71332403
36	58	71332404
36	60	71332405
36	62	71332406
36	64	71332407
36	66-70	71332408
36	72-74	71332409
36	76-80	71332411
40	54	71332499
40	56	71332412
40	58	71332413
40	60	71332414
40	62	71332415
40	64	71332416
40	66-70	71332417
40	72-74	71332418
40	76-80	71332419

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R3° Trial Shells

Standard size trial shells

Cat. no.	OD mm
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

Small size trial shells

Cat. no.	OD mm
71360768	68
71366524	69
71366525	70

Jumbo size trial shells

Cat. no.	OD mm
71366526	71
71366527	72
71366528	73
71366529	74
71366530	75
71366531	76
71362019	77
71362020	78
71362021	79
71362022	80

All implants are provided sterile and are for single use only. Unless otherwise noted, all instruments are provided non-sterile and are intended for re-use and resterilization. Refer to the instructions for cleaning and sterilizing reusable surgical instruments that are provided with Smith & Nephew Instrument sets.

Catalog *(continued)*

R3° Disposable Poly Trial Liners

ID	OD	0° XLPE trial liner Cat. no.	20° XLPE trial liner Cat. no.	0° +4 XLPE trial liner Cat. no.	20°+4 XLPE trial liner Cat. no.
28	48	71369781	71369806	71369832	71369861
28	50	71369782	71369807	71369833	71369862
28	52	71369783	71369808	71369834	71369863
28	54	71369784	71369809	71369835	71369864
28	56	71369785	71369811	71369836	71369865
28	58	71369786	71369812	71369837	71369866
28	60	71369787	71369813	71369838	71369867
32	48	71369788	71369814	71369839	71369868
32	50	71369789	71369814	71369841	71369869
32	52	71369791	71369816	71369842	71369871
32	54	71369792	71369817	71369843	71369872
32	56	71369793	71369818	71369844	71369873
32	58	71369794	71369819	71369845	71369874
32	60	71369795	71369821	71369847	71369875
32	62	71369796	71369822	71369848	71369876
36	52	71369797	71369823	71369851	71369877
36	54	71369798	71369824	71369852	71369878
36	56	71369799	71369825	71369853	71369879
36	58	71369801	71369826	71369855	71369881
36	60	71369802	71369827	71369856	71369882
36	62	71369803	71369828	71369857	71369883
36	64	71369804	71369829	71369858	71369884

All R3 disposable poly liners on page 22 are single use only and provided sterile.

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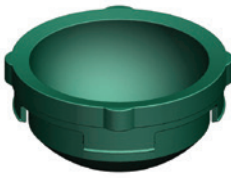
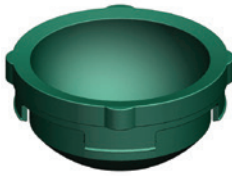


R3° Poly Trial Liners

ID	OD	0° XLPE trial liner Cat. no.	20° XLPE trial liner Cat. no.	0° +4 XLPE trial liner Cat. no.	20°+4 XLPE trial liner Cat. no.
28	48	71360548	71366448	71368348	71368748
28	50	71360550	71366450	71368350	71368750
28	52	71360552	71366452	71368352	71368752
28	54	71360554	71366454	71368354	71368754
28	56	71360556	71366456	71368356	71368756
28	58	71360558	71366458	71368358	71368758
28	60	71360560	71366460	71368360	71368760
32	48	71365148	71366548	71368448	71368848
32	50	71365150	71366550	71368450	71368850
32	52	71365152	71366552	71368452	71368852
32	54	71365154	71366554	71368454	71368854
32	56	71365156	71366556	71368456	71368856
32	58	71365158	71366558	71368458	71368858
32	60	71365160	71366560	71368460	71368860
32	62	71365162	71366562	71368462	71368862
36	52	71365252	71367952	71368552	71369152
36	54	71365254	71367954	71368554	71369154
36	56	71365256	71367956	71368556	71369156
36	58	71365258	71367958	71368558	71369158
36	60	71365260	71367960	71368560	71369160
36	62	71365262	71367962	71368562	71369162
36	64	71365264	71367964	71368564	71369164
36	66-70	71365266	71367966	71368566	71369166
36	72-74	71366571	71366574	71366577	71366580
36	76-80	71362312	71362314	71362316	71362318

All implants are provided sterile and are for single use only. Unless otherwise noted, all instruments are provided non-sterile and are intended for re-use and resterilization. Refer to the instructions for cleaning and sterilizing reusable surgical instruments that are provided with Smith & Nephew Instrument sets.

Catalog *(continued)*



R3° Poly Trial Liners

ID	OD	0° XLPE trial liner Cat. no.	20° XLPE trial liner Cat. no.	0° +4 XLPE trial liner Cat. no.	20°+4 XLPE trial liner Cat. no.
40	56	71363420	71363422	71362030	71362035
40	58	71362023	71362026	71362031	71362036
40	60	71362024	71362027	71362032	71362037
40	62	71363421	71362028	71362033	71362038
40	64	71362025	71362029	71362034	71362039
40	66-70	71366569	71366572	71366575	71366578
40	72-74	71366570	71366573	71366576	71366579
40	76-80	71362311	71362313	71362315	71362317
44	60	71366081	71366094	71366087	71366101
44	62	71366082	71366095	71366088	71366102
44	64	71366083	71366096	71366089	71366103
44	66-70	71366084	71366097	71366091	71366104
44	72-74	71366085	71366098	71366092	71366105
44	76-80	71366086	71366099	71366093	71366106

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R3° Anteverted Trial Liners

ID	OD	20°+4 Anteverted trial liner Cat. no.
28	48	71332429
28	50	71332431
28	52	71332432
28	54	71332433
32	46	71332430
32	48	71332437
32	50	71332438
32	52	71332439
32	54	71332441
36	50	71332440
36	52	71332471
36	54	71332472
36	56	71332473
36	58	71332474
36	60	71332475
36	62	71332476
36	64	71332477
36	66-70	71332478
36	72-74	71332479

ID	OD	20°+4 Anteverted trial liner Cat. no.
36	76-80	71332481
40	54	71332460
40	56	71332482
40	58	71332483
40	60	71332484
40	62	71332485
40	64	71332486
40	66-70	71332487
40	72-74	71332488
40	76-80	71332489

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Catalog *(continued)*

R3 Liner Impactor Heads

Cat. no.	Size mm
71366428*	28
71366432*	32
71366436*	36
71366438*	38-42
71366444*	44-48

*Exclusively for liner impaction

R3 MIS Instruments

Cat. no.	Decsription
71368569	Offset Shell Impactor
71366052	Offset X-Bar
71363077	Offset Impactor Tip
71364073	Offset Reamer Handle

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R3° Straight Shell Impactor
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 Shaft
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

REDAPT Straight Shaft Drill

Cat. no.	**Length mm**
71355368	15
71355369	25
71355371	35
71355372	50

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Catalog *(continued)*

R3° Trial Liner Removal Tool **Cat. no.** 71364455	
R3 Liner Removal Tool **Cat. no.** 71366021	
Trial Shell Handle **Cat. no.** 71362297	
Flexible Screwdriver Shaft **Cat. no.** 71362290	
Ratchet Handle **Cat. no.** 71362294	
Torque Limiter **Cat. no.** 71354299	
Small Slap Hammer **Cat. no.** 71367541	
Straight Screwdriver Shaft **Cat. no.** 71362293	

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Reamer Domes

Standard size

Cat. no.	Size 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

Small size

Cat. no.	Size mm
71362738	38
71362739	39
71362740	40
71362741	41

Large size

Cat. no.	Size 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

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R3°/REFLECTION° Watertight
Threaded Hole Cover
Cat. no. 71330001

Spherical Head Screws

Cat. no.	**Length mm**
71332515	15
71332520	20
71332525	25
71332530	30
71332535	35
71332540	40
71332545	45
71332550	50
71332560	60
71332570	70

Locking Head Screws

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

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Implant constructs

REDAPT® Modular Shells

Liners	Screws
R3® XLPE Liners R3 Constrained Liners R3 BIOLOX® Delta Liners	REFLECTION® Spherical Head Screws Universal Cancellous Acetabular REDAPT Screws

R3 XLPE and R3 Anterverted XLPE Liners

Shells	Femoral Heads
REDAPT Modular Shell R3 Shell	OXINIUM® Cobalt Chrome BIOLOX Delta

R3 Constrained Liners

Shells	Femoral Heads
REDAPT Modular Shell R3 Shell	OXINIUM® Cobalt Chrome

R3 BIOLOX Delta Liners

Shells	Femoral Heads
REDAPT Modular Shell R3 Shell	BIOLOX Delta

MRI Compatibility Assessment:

Non-clinical testing has demonstrated that the subject devices are MR Conditional. The conditions under which a patient with the subject devices may be safely scanned in a MR environment can be found in the MR Safety Information section of the IFU.

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.

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