



Design surgeon list

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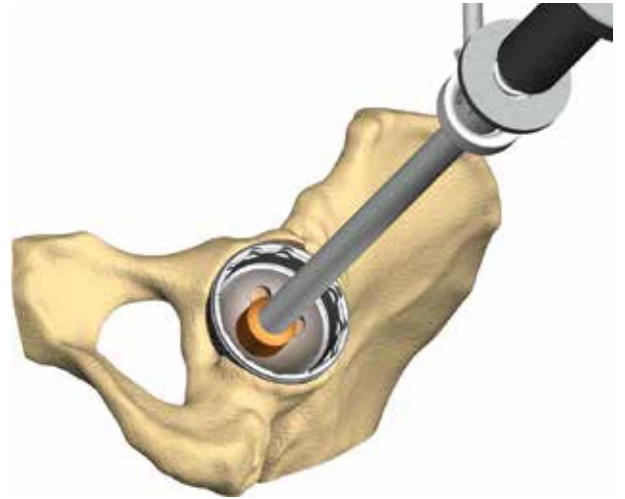
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Nota Bene: The technique description herein is made available to the healthcare professional to illustrate the authors' suggested treatment for the uncomplicated procedure. In the final analysis, the preferred treatment is that which addresses the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

Short technique



1. Preoperative planning



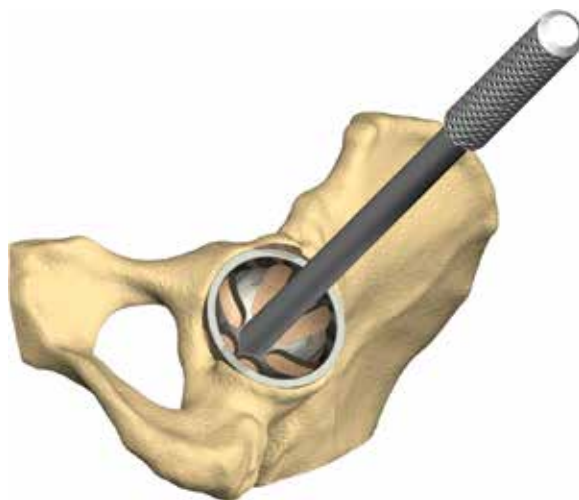
4. Shell insertion



2. Acetabular reaming



5. Acetabular screw insertion



3. Acetabular trialing



6. Acetabular poly liner insertion

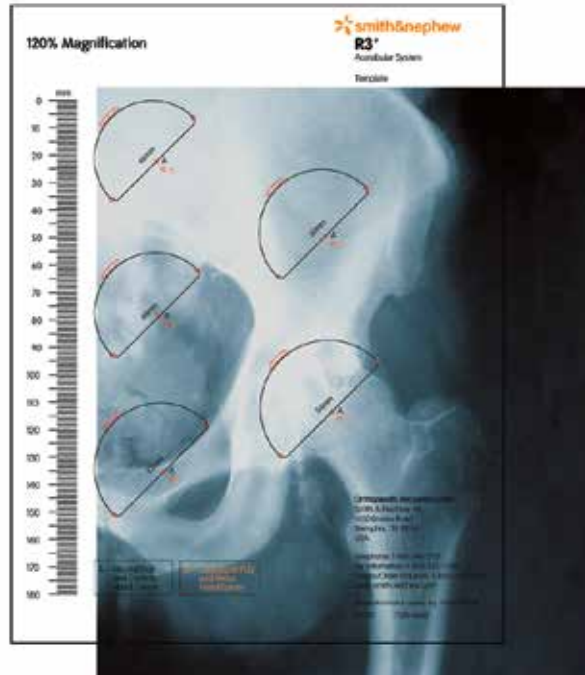
Preoperative planning

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 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, preventing the tendency of the reamer to migrate superiorly.
- Removal of soft tissue and overhanging osteophytes from the foveal notch aids visualization of the quadralateral 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.

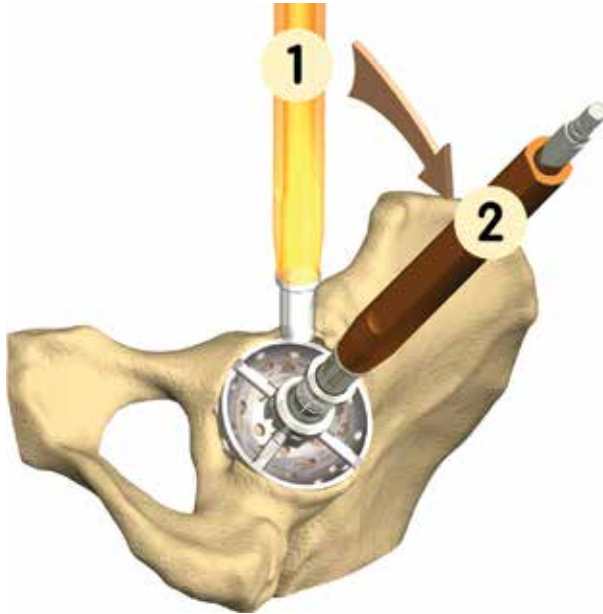
After identifying the transverse acetabular ligament, place a blunt retractor around the inferior margin of the acetabulum.

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 cup. 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 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. One might suggest leaving some remaining subchondral bone and removing the medial bone that is osteophyte and is covering fatty tissue.

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 R3° acetabular 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.

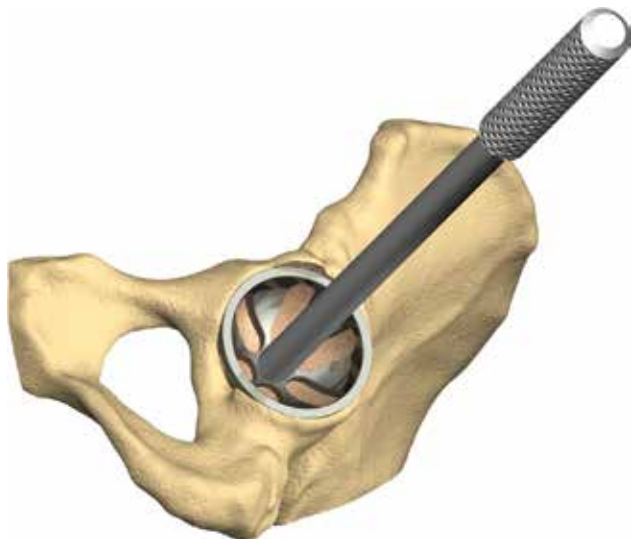
Surgical tips:

- 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.
- Mark the medial wall with an electrocautery prior to using the last reamer. If the last reamer does not remove the mark, repeat reaming, dropping back a size if necessary.

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 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 preparing the acetabulum, the trial shell should be inserted to verify size and position of the cup. The surgeon should note the appropriate orientation of the acetabular trial to position the cup correctly.

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.

Surgical tip:

- The bone at the edge of the trial shell can be marked with an electrocautery 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



Select the appropriate acetabular implant, attach the shell to the cup positioner/impactor and insert it into the acetabulum.

Rotate the X-Bar shaft so that it is in line with the liner removal slot. For the THREE HOLE cup, this positions the three holes in the superior direction. When implanting a MULTI HOLE shell, future access to the liner removal slot should be considered.

Position the X-Bar so that the vertical bar is perpendicular to the long axis of the body and the appropriate crossbar (left or right) aligns with the long axis of the body.

Firmly tap the inserter with a mallet until the cup is fully seated.

Gently toggle the impactor handle to assess the stability and contact of the shell.

Remove the X-Bar, then disengage the impactor handle and look through the impactor hole to judge the distance between the medial wall and the shell.

If the cup is firmly seated, there should be no gap between the shell and the medial wall and no apparent movement in the component.

Specific to shells for R3° acetabular ceramic liners:

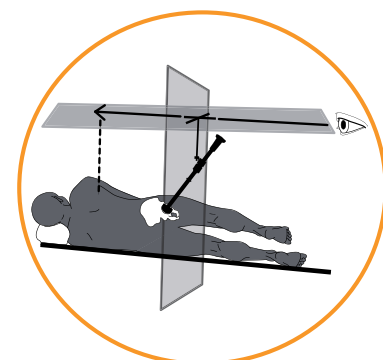
Proper range of motion is critical for implant longevity. If any repositioning of the shell is required, it should only be performed using the shell positioner. Any use of a punch, osteotome or other instrument on the shell's rim could result in damage to the taper section and compromise the integrity of the shell and ceramic liner mating and lead to liner fracture. It is important to protect the shell's rim and inner taper from any damage during implantation.

Surgical tips:

- The change in pitch that occurs as the shell is seated against the medial wall is often audible. A depth gauge can be inserted through the screw holes and apex hole to determine the adequacy of shell seating.
- Close attention should be paid to initial positioning of the R3 shell. However, the use of the slap hammer may be helpful in extracting the shell for repositioning.

Instrument tips:

- The plastic tip on the cup impactor is removable for cleaning, or replacement if damaged.
- The X-Bar references 45° of abduction and 20° of anteversion .



Acetabular screw insertion



Screw fixation is simple, fast and the most common method of assuring additional fixation. Acetabular screws work in compression, which allows the shell to fully seat in the acetabular cavity.

For screw fixation, each screw hole must be predrilled. Using the variable angle drill guide, adjust the angle of the tip to align with the selected screw hole and **press firmly in the shell**. After drilling the hole, use the depth gauge to verify appropriate screw length(s).

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 acetabular shell/liner.

Surgical tip:

- Screws have been shown to be a reliable method of assuring fixation; however, it is important to avoid neurovascular complications by proper screw placement, avoiding the anterior/superior or anterior/inferior quadrants.

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, lavage any unused holes and insert the hole covers, if desired. Using the angled hole cover inserter, place screw hole covers over any remaining screw holes and then impact with the peg impactor. Cover the apex hole with the threaded hole cover. 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 cup 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.

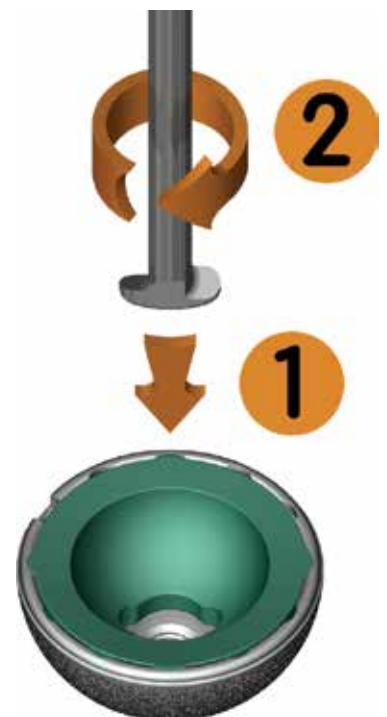
Inspect the liner/shell interface for proper seating. The liner should sit flush with the face of the shell.

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.

Instrument tips:

- The liner trials are designed with flexible locking tabs around the periphery that is a quick-snap design. Align tabs with indentions and snap into position. **Do not force trial.** The trial liners are removed with the trial liner removal tool via the removal slot at the apex of the trial liner and a clockwise twist of the removal tool.



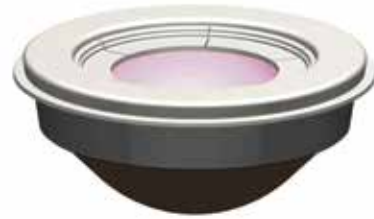
R3 Hard Bearing insertion

R3 Hard Bearings come preassembled with a disposable single-use Hard Bearing Alignment Guide. The liner/alignment guide assembly is then introduced by hand and sits flush on the face of the shell. The liner must be checked for proper orientation. Verification of proper liner seating in the shell should be confirmed by both a visual check to see that the insertion ring is sitting on the shell face and a manual check with the fingers to feel that the ring does not rock on the face of the shell. Do not impact the liner if it is not oriented properly, as this can damage the shell and/or locking mechanism. Once orientation has been confirmed, impact the liner into place using the appropriate sized liner impactor head placed on the shell positioner/impactor. Once impacted, the alignment guide will disengage onto the shell positioner/impactor and should be removed at that time.*

* Cautionary Statement

Be sure to remove the disposable Hard Bearing Alignment Guide. It is not intended for implantation.

In the event that the Hard Bearing Alignment Guide is disengaged from the liner, the alignment guide should be reassembled to the liner before implantation. This is accomplished by taking the disposable alignment guide and placing it upside down on the back table. The liner can then be placed upside down on the alignment guide such that the peripheral rim is sitting on the alignment guide. Simply push the liner onto the guide until the insertion ring locks snugly on the liner. The assembly is ready for placement in the shell.



Surgical tip:

- It may prove helpful to rotate the liner/ guide slightly to ensure soft tissues and osteophytes are clear.



Specific to R3° ceramic liners

Use extreme care in handling and storage of ceramic implant components. Damage to components may induce internal stresses that are not obvious to the observer, and it may lead to premature failure of the component. Before use of ceramic implants, carefully examine each component for indications of damage that may have occurred during shipping or prior in-hospital handling. All surfaces should be smooth without pitting, scratches or other surface irregularities.

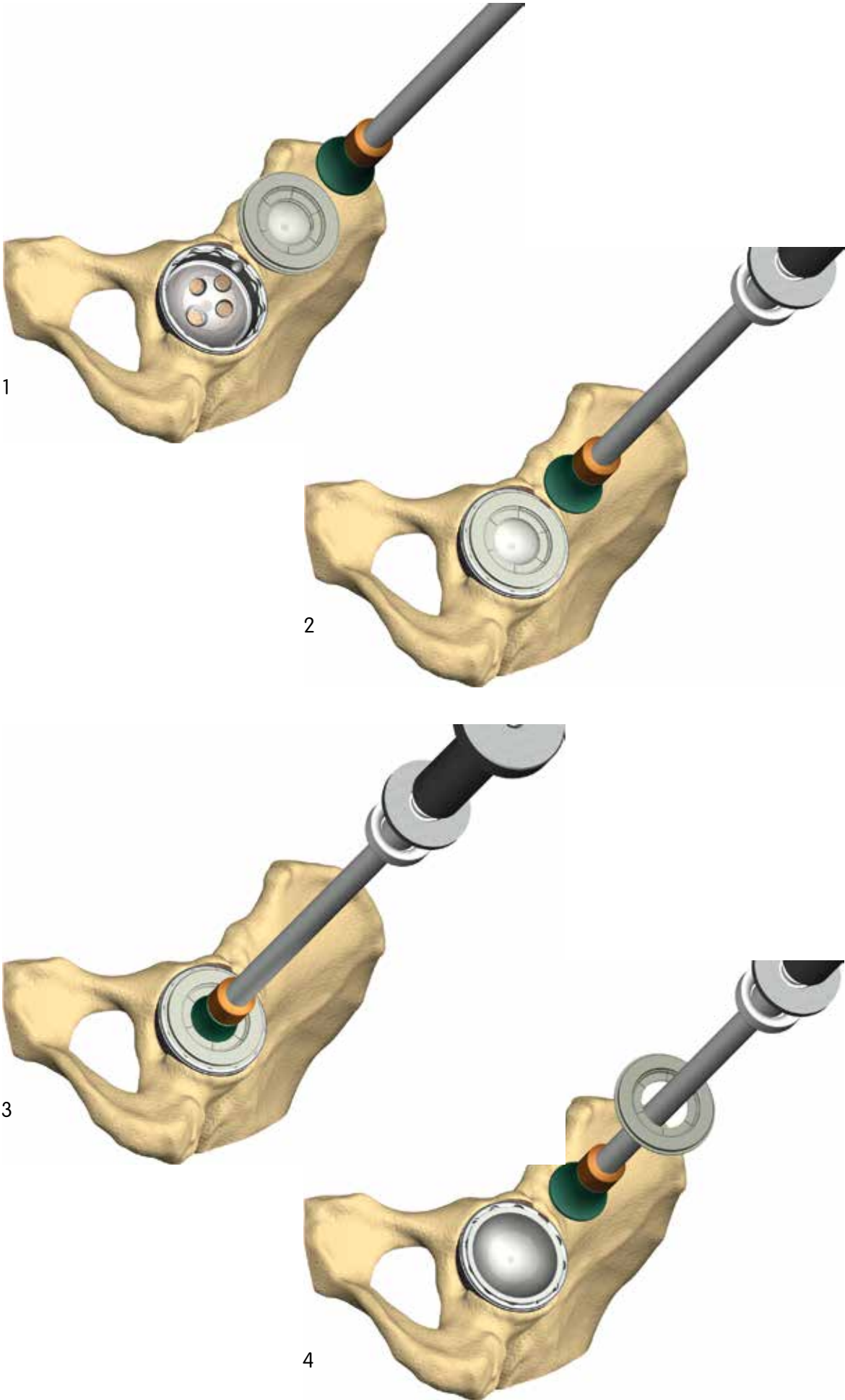
Only Smith & Nephew ceramic femoral heads can be used with the R3 ceramic acetabular liners. Do not mix the ceramic liner or ceramic head with any other manufacturer's acetabular shell or stem, respectively. Use the appropriate size head and liner only. A sizing mismatch may result in premature implant failure. Once the liner or the head are impacted, the ridges machined into the metal taper deform. If, for any reason, the ceramic femoral head is removed, the metal stem taper cannot be reused with a ceramic component. If the R3 ceramic liner is removed, a new R3 ceramic liner must be used.

Surgical tip:

- Should a correction or revision of a R3 ceramic liner be necessary, a new R3 ceramic insert must be used.
- The ceramic liner can be removed by placing the liner removal tool in the removal slot and prying (or impacting if necessary) the liner loose.



Hard Bearing Liner insertion



Shell and liner offerings

Cups	XLPE						Ceramic	
	22	28	32	36	40	44	32	36
40	●							
42	●							
44	●							
46		●						
48		●	●				●	
50		●	●				●	
52		●	●	●				●
54		●	●	●				●
56		●	●	●	●			●
58		●	●	●	●			●
60		●	●	●	●	●		●
62			●	●	●	●		●
64				●	●	●		●
66				●	●	●		●
68				●	●	●		●
70				●	●	●		
72				●	●	●		
74				●	●	●		
76				●	●	●		
78				●	●	●		
80				●	●	●		

Range of motion

(SPECTRON® stem [size 3], +4 head offset)

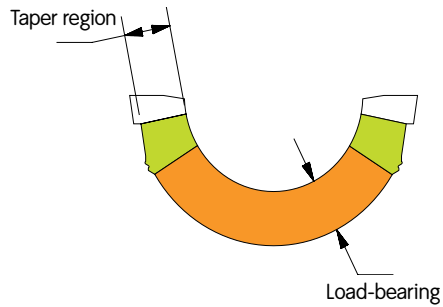
REFLECTION® Acetabular System with XLPE liner				
	22mm	28mm	32mm	36mm
0°	133°	142°	145°	148°
20°	112°	122°	126°	128°

R3° Acetabular System with XLPE liner						
	22mm	28mm	32mm	36mm	40mm	44mm
0°	140°	150°	154°	157°	157°	157°
20°	132°	134°	136°	138°	138°	138°

Poly thickness chart

Shell OD	Poly OD	Poly Thickness Taper Region mm	Poly Thickness Load-Bearing Region mm
40	22	5.5	6.1
42	22	6.5	7.1
44	22	7.5	8.1
46	28	5.4	6.1
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 OD	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
66-70	36	11.3	12.1
66-70	40	9.3	10.0
66-70	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



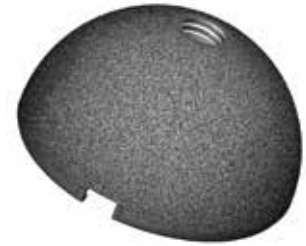
Catalog

R3° NO HOLE Acetabular Shells

Standard size shells

Small size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-1846	46	7133-1840	40
7133-1848	48	7133-1842	42
7133-1850	50	7133-1844	44
7133-1852	52	Large size shells	
7133-1854	54		
7133-1856	56	Cat. no.	ODmm
7133-1858	58	7133-1866	66
7133-1860	60	7133-1868	68
7133-1862	62		
7133-1864	64		



R3 NO HOLE HA Acetabular Shells

Standard size shells

Small size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-2246	46	7133-2240	40
7133-2248	48	7133-2242	42
7133-2250	50	7133-2244	44
7133-2252	52	Large size shells	
7133-2254	54		
7133-2256	56	Cat. no.	ODmm
7133-2258	58	7133-2266	66
7133-2260	60	7133-2268	68
7133-2262	62		
7133-2264	64		

R3 THREE HOLE Acetabular Shells

Standard size shells

Small size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-5546	46	7133-5540	40
7133-5548	48	7133-5542	42
7133-5550	50	7133-5544	44
7133-5552	52	Large size shells	
7133-5554	54		
7133-5556	56	Cat. no.	ODmm
7133-5558	58	7133-5566	66
7133-5560	60	7133-5568	68
7133-5562	62		
7133-5564	64		



R3° THREE HOLE HA Acetabular Shells

Standard size shells

Small size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-1946	46	7133-1940	40
7133-1948	48	7133-1942	42
7133-1950	50	7133-1944	44
7133-1952	52		
7133-1954	54	Large size shells	
7133-1956	56	Cat. no.	ODmm
7133-1958	58	7133-1966	66
7133-1960	60	7133-1968	68
7133-1962	62		
7133-1964	64		



R3 MULTI HOLE Acetabular Shells

Standard size shells

Large size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-8663	48	7133-8673	66
7133-8664	50	7133-8674	68
7133-8665	52	7133-8675	70
7133-8666	54		
7133-8667	56	Jumbo size shells	
7133-8668	58	Cat. no.	ODmm
7133-8669	60	7133-8676	72
7133-8671	62	7133-8677	74
7133-8672	64	7133-8678	76
		7133-0009	78
		7133-0010	80



R3 HA MULTI HOLE Acetabular Shells

Standard size shells

Large size shells

Cat. no.	ODmm	Cat. no.	ODmm
7133-8733	48	7133-8742	66
7133-8734	50	7133-8743	68
7133-8735	52	7133-8744	70
7133-8736	54		
7133-8737	56	Jumbo size shells	
7133-8738	58	Cat. no.	ODmm
7133-8739	60	7133-8745	72
7133-8740	62	7133-8747	74
7133-8741	64	7133-8749	76
		7133-1138	78
		7133-1139	80



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.
22	40	7133-4840	7133-4940	7133-5840	7133-7140
22	42	7133-4842	7133-4942	7133-5842	7133-7142
22	44	7133-4844	7133-4944	7133-5844	7133-7144

28	46	7133-7546	7133-4946	7133-5946	7133-7746
28	48	7133-7548	7133-4948	7133-5948	7133-7748
28	50	7133-7550	7133-4950	7133-5950	7133-7750
28	52	7133-7552	7133-4952	7133-5952	7133-7752
28	54	7133-7554	7133-4954	7133-5954	7133-7754
28	56	7133-7556	7133-4956	7133-5956	7133-7756
28	58	7133-7558	7133-4958	7133-5958	7133-7758
28	60	7133-7560	7133-4960	7133-5960	7133-7760

32	48	7133-9548	7133-7648	7133-6648	7133-7948
32	50	7133-9550	7133-7650	7133-6650	7133-7950
32	52	7133-9552	7133-7652	7133-6652	7133-7952
32	54	7133-9554	7133-7654	7133-6654	7133-7954
32	56	7133-9556	7133-7656	7133-6656	7133-7956
32	58	7133-9558	7133-7658	7133-6658	7133-7958
32	60	7133-9560	7133-7660	7133-6660	7133-7960
32	62	7133-9562	7133-7662	7133-6662	7133-7962

36	52	7133-2752	7133-5752	7133-6952	7133-8552
36	54	7133-2754	7133-5754	7133-6954	7133-8554
36	56	7133-2756	7133-5756	7133-6956	7133-8556
36	58	7133-2758	7133-5758	7133-6958	7133-8558
36	60	7133-2760	7133-5760	7133-6960	7133-8560
36	62	7133-2762	7133-5762	7133-6962	7133-8562
36	64	7133-2764	7133-5764	7133-6964	7133-8564
36	66-70	7133-0766	7133-1266	7133-1566	7133-2666
36	72-74	7133-8686	7133-8694	7133-8703	7133-8712
36	76-80	7133-1103	7133-1112	7133-1114	7133-8946



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	7133-8679	7133-8687	7133-8695	7133-8704
40	58	7133-8680	7133-8688	7133-8696	7133-8705
40	60	7133-8681	7133-8689	7133-8697	7133-8706
40	62	7133-8682	7133-8690	7133-8698	7133-8707
40	64	7133-8683	7133-8691	7133-8699	7133-8708
40	66-70	7133-8684	7133-8692	7133-8701	7133-8709
40	72-74	7133-8685	7133-8693	7133-8702	7133-8711
40	76-80	7133-1094	7133-1104	7133-1113	7133-1116

44	60	7133-1096	7133-1106	7133-0011	7133-1118
44	62	7133-1097	7133-1107	7133-0012	7133-1119
44	64	7133-1098	7133-1108	7133-0013	7133-1121
44	66-70	7133-1099	7133-1109	7133-0014	7133-1122
44	72-74	7133-1101	7133-1110	7133-0016	7133-1123
44	76-80	7133-1102	7133-1111	7133-0017	7133-1124

R3° INTL Delta Ceramic Liners*

ID	OD	Cat. no.
32	48	7133-1748
32	50	7133-1750
36	52	7133-1752
36	54	7133-1754
36	56	7133-1756
36	58	7133-1758
36	60	7133-1760
36	62	7133-1762
36	64	7133-1764
36	66/68	7133-1766



*For Use with Smith & Nephew BIOLOX™ Delta and BIOLOX Forte Ceramic Heads only.

R3° Trial Shells

Standard size trial shells

Small size trial shells

Cat. no.	ODmm	Cat. no.	ODmm
7136-0745	45	7136-0739	39
7136-0746	46	7136-0740	40
7136-0747	47	7136-0741	41
7136-0748	48	7136-0742	42
7136-0749	49	7136-0743	43
7136-0750	50	7136-0744	44

7136-0751 51

7136-0752 52

Large size trial shells

Cat. no.	ODmm	Cat. no.	ODmm
7136-0753	53	7136-0765	65
7136-0754	54	7136-0766	66
7136-0755	55	7136-0767	67
7136-0756	56	7136-0768	68
7136-0757	57	7136-6524	69
7136-0758	58	7136-6525	70

7136-0759 59

7136-0760 60

7136-0761 61

Jumbo size trial shells

Cat. no.	ODmm	Cat. no.	ODmm
7136-0762	62	7136-6526	71
7136-0763	63	7136-6527	72
7136-0764	64	7136-6528	73
		7136-6529	74
		7136-6530	75
		7136-6531	76
		7136-2019	77
		7136-2020	78
		7136-2021	79
		7136-2022	80





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.
22	40	7136-0540	7136-5340	7136-6140	7136-8640
22	42	7136-0542	7136-5342	7136-6142	7136-8642
22	44	7136-0544	7136-5344	7136-6144	7136-8644

28	46	7136-0546	7136-6446	7136-8346	7136-8746
28	48	7136-0548	7136-6448	7136-8348	7136-8748
28	50	7136-0550	7136-6450	7136-8350	7136-8750
28	52	7136-0552	7136-6452	7136-8352	7136-8752
28	54	7136-0554	7136-6454	7136-8354	7136-8754
28	56	7136-0556	7136-6456	7136-8356	7136-8756
28	58	7136-0558	7136-6458	7136-8358	7136-8758
28	60	7136-0560	7136-6460	7136-8360	7136-8760

32	48	7136-5148	7136-6548	7136-8448	7136-8848
32	50	7136-5150	7136-6550	7136-8450	7136-8850
32	52	7136-5152	7136-6552	7136-8452	7136-8852
32	54	7136-5154	7136-6554	7136-8454	7136-8854
32	56	7136-5156	7136-6556	7136-8456	7136-8856
32	58	7136-5158	7136-6558	7136-8458	7136-8858
32	60	7136-5160	7136-6560	7136-8460	7136-8860
32	62	7136-5162	7136-6562	7136-8462	7136-8862

36	52	7136-5252	7136-7952	7136-8552	7136-9152
36	54	7136-5254	7136-7954	7136-8554	7136-9154
36	56	7136-5256	7136-7956	7136-8556	7136-9156
36	58	7136-5258	7136-7958	7136-8558	7136-9158
36	60	7136-5260	7136-7960	7136-8560	7136-9160
36	62	7136-5262	7136-7962	7136-8562	7136-9162
36	64	7136-5264	7136-7964	7136-8564	7136-9164
36	66-70	7136-5266	7136-7966	7136-8566	7136-9166
36	72-74	7136-6571	7136-6574	7136-6577	7136-6580
36	76-80	7136-2312	7136-2314	7136-2316	7136-2318



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	7136-3420	7136-3422	7136-2030	7136-2035
40	58	7136-2023	7136-2026	7136-2031	7136-2036
40	60	7136-2024	7136-2027	7136-2032	7136-2037
40	62	7136-3421	7136-2028	7136-2033	7136-2038
40	64	7136-2025	7136-2029	7136-2034	7136-2039
40	66-70	7136-6569	7136-6572	7136-6575	7136-6578
40	72-74	7136-6570	7136-6573	7136-6576	7136-6579
40	76-80	7136-2311	7136-2313	7136-2315	7136-2317

44	60	7136-6081	7136-6094	7136-6087	7136-6101
44	62	7136-6082	7136-6095	7136-6088	7136-6102
44	64	7136-6083	7136-6096	7136-6089	7136-6103
44	66-70	7136-6084	7136-6097	7136-6091	7136-6104
44	72-74	7136-6085	7136-6098	7136-6092	7136-6105
44	76-80	7136-6086	7136-6099	7136-6093	7136-6106

R3° Ceramic Snap in Trial Liners

ID	OD	Cat. no.
32	48	7136-9748
32	50	7136-9758
36	52	7136-9752
36	54	7136-9754
36	56	7136-9756
36	58	7136-9758
36	60	7136-9760
36	62	7136-9762
36	64	7136-9764
36	66/68	7136-9766



R3 Liner Impactor Heads

Cat. no.	Size mm
7136-6428*	28
7136-6432*	32
7136-6436*	36
7136-6438*	38-42
7136-6444*	44-48
7136-6451*	50-54



*Exclusively for liner impaction












Note: When using a 22mm Liner, you will need to order a Reflection 22mm Impactor Head (7136-2222) separately.









R3 MIS Instruments

Cat. no.	Description
7136-8569	Offset Shell Impactor
7136-6052	Offset X-Bar
7136-3077	Offset Impactor Tip
7136-4073	Offset Reamer Handle



Catalog

<p>R3° Straight Shell Impactor Cat. no. 7136-4450</p>	
<p>R3 Impactor Replacement Tip Cat. no. 7136-8570</p>	
<p>R3 Depth Gauge Cat. no. 7136-4451</p>	
<p>X-Bar Cat. no. MT-2201</p>	
<p>Screw Forceps Cat. no. 7136-2298</p>	
<p>Ball Joint Screwdriver Cat. no. 7136-2295</p>	
<p>R3 Variable Angle Drill Guide Cat. no. 7136-4477</p>	
<p>Reamer Handle Cat. no. 7136-2279</p>	
<p>Flexible Screw Drills Cat. no. Length mm 7136-2915 15 7136-2925 25 7136-2935 35 7136-2950 50</p>	
<p>Captured Flexible Screwdriver Shaft Cat. no. 7136-2291</p>	
<p>Captured U-Joint Screwdriver Shaft Cat. no. 7136-2292</p>	
<p>R3 Surgical Templates sizes 40-68 (not shown) Cat. no. 7138-0666</p>	
<p>R3 Surgical Templates sizes 70-80 (not shown) Cat. no. 7138-1508</p>	

<p>R3° Trial Liner Removal Tool Cat. no. 7136-4455</p>	
<p>R3 Liner Removal Tool Cat. no. 7136-6021</p>	
<p>Hole Cover Impactor Cat. no. 73-2117</p>	
<p>Trial Shell Handle Cat. no. 7136-2297</p>	
<p>Flexible Screwdriver Cat. no. 7136-2290</p>	
<p>Ratchet Handle Cat. no. 7136-2294</p>	
<p>Small Slap Hammer Cat. no. 7136-7541</p>	
<p>REFLECTION® Mallet Cat. no. 7136-2106</p>	
<p>Hole Cover Inserter Cat. no. 73-2133</p>	
<p>Straight Screwdriver Shaft Cat. no. 7136-2293</p>	
<p>Power Adaptors (not shown) Cat. no. 7136-2781 Synthes 7136-2782 Asculap 7136-2783 Hudson</p>	






Reamer Domes

Standard size

Small size

Cat. no.	Size mm	Cat. no.	Size mm
7136-2742	42	7136-2738	38
7136-2743	43	7136-2739	39
7136-2744	44	7136-2740	40
7136-2745	45	7136-2741	41
7136-2746	46		
7136-2747	47		
		Large size	
Cat. no.	Size mm	Cat. no.	Size mm
7136-2748	48	7136-2765	65
7136-2749	49	7136-2766	66
7136-2750	50	7136-2767	67
7136-2751	51	7136-2768	68
7136-2752	52	7136-2769	69
7136-2753	53	7136-2770	70
7136-2754	54	7136-2771	71
7136-2755	55	7136-2772	72
7136-2756	56	7136-2773	73
7136-2757	57	7136-2774	74
7136-2758	58	7136-2775	75
7136-2759	59	7136-2776	76
7136-2760	60	7136-2777	77
7136-2761	61	7136-2778	78
7136-2762	62	7136-2779	79
7136-2763	63	7136-2780	80
7136-2764	64		

<p>R3°/REFLECTION° Threaded Hole Cover Cat. no. 7133-6500</p>																									
<p>Spherical Head Screws Cat. no. Length mm</p> <table border="1"> <tr><td>7133-2515</td><td>15</td></tr> <tr><td>7133-2520</td><td>20</td></tr> <tr><td>7133-2525</td><td>25</td></tr> <tr><td>7133-2530</td><td>30</td></tr> <tr><td>7133-2535</td><td>35</td></tr> <tr><td>7133-2540</td><td>40</td></tr> <tr><td>7133-2545</td><td>45</td></tr> <tr><td>7133-2550</td><td>50</td></tr> <tr><td>7133-2555</td><td>55</td></tr> <tr><td>7133-2560</td><td>60</td></tr> <tr><td>7133-2565</td><td>65</td></tr> <tr><td>7133-2570</td><td>70</td></tr> </table>	7133-2515	15	7133-2520	20	7133-2525	25	7133-2530	30	7133-2535	35	7133-2540	40	7133-2545	45	7133-2550	50	7133-2555	55	7133-2560	60	7133-2565	65	7133-2570	70	
7133-2515	15																								
7133-2520	20																								
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7133-2550	50																								
7133-2555	55																								
7133-2560	60																								
7133-2565	65																								
7133-2570	70																								
<p>R3 Screw Hole Cover Cat. no. 7136-9894</p>																									
<p>Small Outer Case Cat. no. 7112-9401 (not shown)</p>																									
<p>Lid for Outer Case Cat. no. 7112-9402 (not shown)</p>																									
<p>R3 Trial Shell Tray Cat. no. 7136-2213 (not shown)</p>																									
<p>R3 Main Instrument Tray Cat. no. 7136-2211 (not shown)</p>																									
<p>R3 MIS Instrument Tray Cat. no. 7136-2219 (not shown)</p>																									
<p>R3 Primary Reamer Dome Tray Cat. no. 7136-2212 (not shown)</p>																									
<p>R3 CDH Trial Tray Cat. no. 7136-1077 (not shown)</p>																									

Catalog

R3° Jumbo Trial Shell & Reamer Set Cat. no. 71362230
R3 XL Revision Reamer Set Cat. no. 71362160
R3 XL Revision Trial Shell Set Cat. no. 71362170
R3 Jumbo Trial Liner Set 66-70mm Cat. no. 71362090
R3 XL 0 Deg. Trial Liner Set 71-80mm Cat. no. 71362180
R3 XL 20 Deg. Trial Liner Set 71-80mm Cat. no. 71362190
R3 0 Deg. Multi ID Trial Liner Set 46-64mm Cat. no. 71360675
R3 20 Deg. Multi ID Trial Liner Set 46-64mm Cat. no. 71360681
R3 0 Deg. +4 Multi ID Trial Liner Set 46-64mm Cat. no. 71360676
R3 20 Deg. +4 Multi ID Trial Liner Set 46-64mm Cat. no. 71360683
R3 Ceramic Trial Liner Set 48-64mm Cat. no. 71360685
R3° 0° 40mm Trial Liner Tray Cat. no. 7136-0782
R3 20° 40mm Trial Liner Tray Cat. no. 7136-0783
R3 0° +4 40mm Trial Liner Tray Cat. no. 7136-0784
R3 20° +4 40mm Trial Liner Tray Cat. no. 7136-0786
R3 0° and 20° 44mm Permanent Trial Liner Tray 60-70mm Cat. no. 7136-6981
R3 0° and 20° +4 44mm Permanent Trial Liner Tray 60-70mm Cat. no. 7136-6982
R3 0° and 20° +4 44mm Permanent Trial Liner Tray 72-80mm Cat. no. 7136-6983

Indications

Hip components are indicated for individuals undergoing primary and revision surgery where other treatments or devices have failed in rehabilitating hips damaged as a result of trauma or noninflammatory degenerative joint disease (NIDJD) or any of its composite diagnoses of osteoarthritis, avascular necrosis, traumatic arthritis, slipped capital epiphysis, fused hip, fracture of the pelvis and diastrophic variant.

Hip components are also indicated for inflammatory degenerative joint disease including rheumatoid arthritis, arthritis secondary to a variety of diseases and anomalies, and congenital dysplasia; treatments of nonunion, femoral neck fracture and trochanteric fractures of the proximal femur with head involvement that are unmanageable using other techniques; endoprosthesis, femoral osteotomy, or Girdlestone resection; fracture-dislocation of the hip; and correction of deformity.

The R3° Acetabular System is for single use only and is intended for cementless use.

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Orders and Inquiries: 1-800-238-7538

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