

LEGEND™
ALL-POLY CUP



O R T H O D E V E L O P M E N T

INTRODUCTION TO LEGEND™ ALL-POLY CUP

The Legend™ All-poly Cup was designed to provide surgeons with a one-piece cemented acetabular option for total hip arthroplasty. The cup is manufactured from compression molded UHMWPE and is available in both neutral and hooded (10°) options to accommodate patient's needs.

- **Compression molded UHMWPE**
- **Available in 40-62mm outer diameter (2mm increments)**
- **22mm and 28mm inner diameter**
- **Neutral and hooded (10°) options**
- **Grooves and ridges prevent rotation at insertion**
- **Integral cement spacers to provide uniform 2mm cement mantle**
- **X-ray Markers - equatorial and polar wires for reference**
- **Minimum poly thickness of 6mm**



SURGICAL TECHNIQUE

ACETABULAR PREPARATION

Once complete visualization is obtained the acetabulum is prepared by reaming with the **Acetabular Reamer**. Based on preoperative templating the initial Acetabular Reamer should be one that seats easily into the acetabulum. Serial reaming is continued in one millimeter increments until a hemispheric bed of bleeding subchondral bone is exposed. Take care to avoid deepening the acetabulum.

Note: The Acetabular Reamers are available in 1mm increments and the actual implants are available in 2mm increments. Therefore, the acetabulum should be prepared to the exact size of the desired cup. Under-reaming is not recommended as it will potentially prevent the cup from properly seating and may decrease the desired cup bone interface cement mantle.

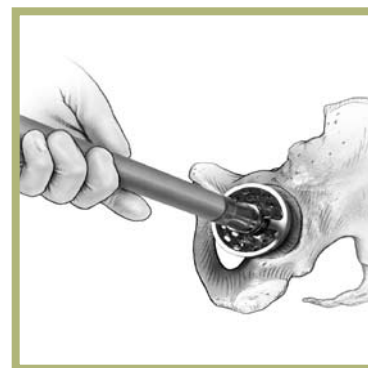


Figure 1

ACETABULAR SIZING

Once the acetabulum is prepared the next step is to assemble the **Shell Trial** onto the **Shell Impactor** and insert into the acetabulum to determine proper acetabular size. Check the prepared acetabulum size using the shell trial corresponding to the size of the last reamer used.

When inserting the Shell Trial into the acetabulum, note the following: 1) coverage of the bony rim against the shell; 2) seating of the trial against the bone (by utilizing the windows in the shell trial); and 3) anticipated placement of the all-poly cup, using the alignment guide to judge coverage and anatomic positioning.

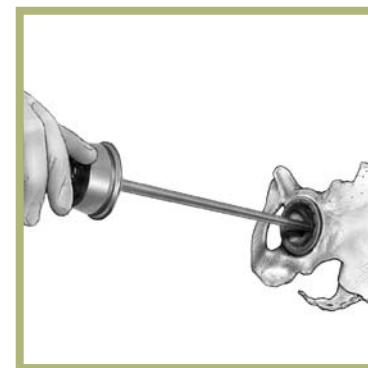


Figure 2

ACETABULAR POSITION AND ALIGNMENT

The **Alignment Guide** is attached to the Shell Impactor by sliding the Alignment Guide over the Shell Impactor handle. First the abduction angle is set to 45° by rotating the Alignment Guide around the axis of the impactor until it lies in the patient's coronal plane through the acetabulum. The Femoral Impactor is then rotated around the anterior-posterior axis through the acetabulum until the Alignment Guide is parallel to the patient's transverse plane through the acetabulum. Set the pointer of the Alignment Guide to the right or left depending on which side of the patient is being operated on. Next select the

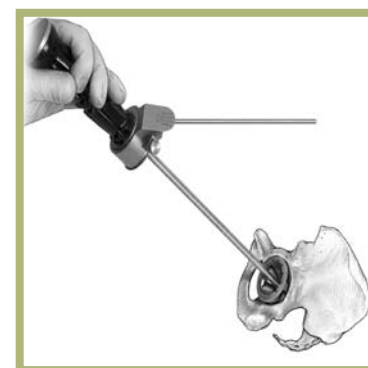


Figure 3

appropriate amount of anteversion in 10° increments up to 30°. Next, to position the shell for the desired anteversion, maintain the 45° abduction while rotating the impactor around the medial-lateral axis through the acetabulum, until the alignment guide pointer is oriented parallel to a coronal plane through the acetabulum.

LINER TRIAL REDUCTION

Place the desired **Trial Liner** into the Shell Trial by hand or by placing a **Hex Driver** onto the **Hex Screw** in the Trial Liner and inserting it in the Shell Trial. The Trial Liner should correspond to the outside diameter of the shell and the outside diameter of the femoral head. Secure the Trial Liner in the Shell Trial with the Hex Driver and turn the Hex Screw in a clockwise motion until completely seated.

With the Trial Liner inserted, perform range of motion tests to validate the selection of the liner type and size. Dislocation instability may require a need for a 10° **Hooded Liner**. If the enhanced liner is required be sure to ascertain proper alignment and rotation of the hooded portion in order to decrease the likelihood of joint dislocation.

FINAL IMPLANTATION

Once the Liner and Shell Trials are removed bone cement can be prepared and the proper implant corresponding to the last trial used should be selected and prepared to implant.

The acetabulum should be prepared and thoroughly cleaned. Once the bone cement is in a proper viscous state it should be introduced into the acetabulum making sure that the entire surface is covered. The properly sized Legend™ All-poly Cup is implanted into the acetabulum and fully seated by using the **Pusher Head**.

Note: If a hooded liner is selected, be sure to orient the hooded portion properly to decrease the likelihood of dislocation.

Once the bone cement is completely cured, reduce the hip joint and apply normal range of motion. Once satisfactory range of motion is accomplished the wound should be closed in a routing manner.

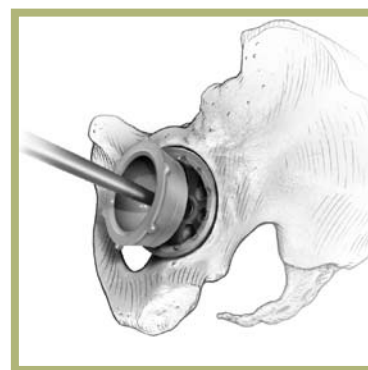


Figure 4

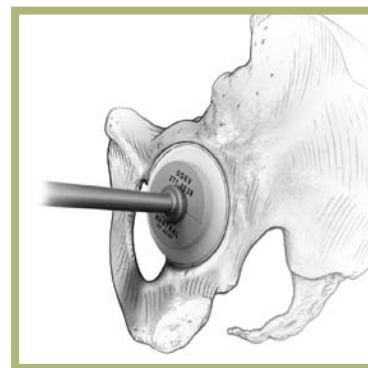
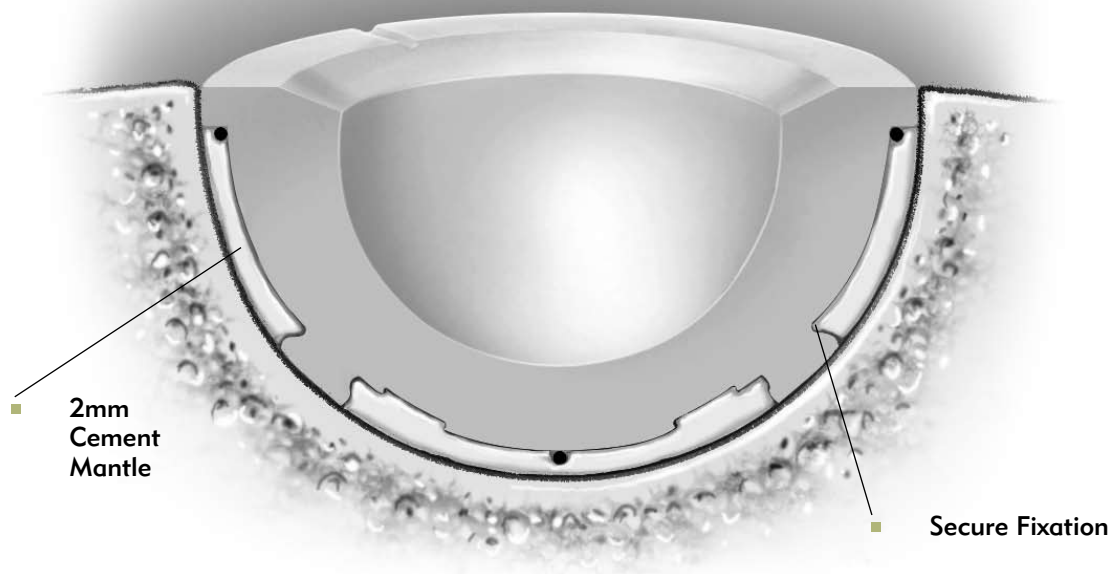


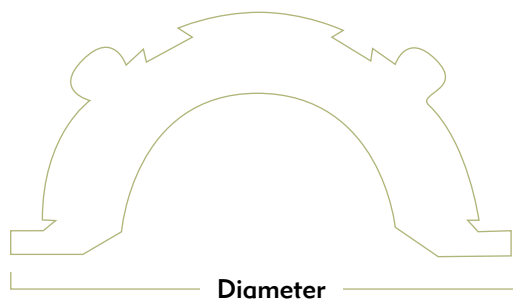
Figure 5

DESIGN RATIONALE

The Legend™ All-poly Cup was designed with integral cement spacers. The unique design of the spacers allows a cement mantle to completely fill the space between the acetabulum and the implant, and provides secure fixation.



PRODUCT SPECIFICATION



See back panel for sizing.

SIZE	OUTER DIA.	HEAD DIA.	SIZE	OUTER DIA.	HEAD DIA.
22x40mm	40mm	22mm	28x54mm	54mm	28mm
22x42mm	42mm	22mm	28x56mm	56mm	28mm
22x44mm	44mm	22mm	28x58mm	58mm	28mm
28x46mm	46mm	28mm	28x60mm	60mm	28mm
28x48mm	48mm	28mm	28x62mm	62mm	28mm
28x50mm	50mm	28mm	28x64mm	64mm	28mm
28x52mm	52mm	28mm	28x66mm	66mm	28mm

ORDER INFORMATION

PRODUCT NO.	DESCRIPTION	PRODUCT NO.	DESCRIPTION
177-2240	Legend All Poly Cup Neutral 22x40mm	127-2240	Legend All Poly Cup 10° Hooded 22x40mm
177-2242	Legend All Poly Cup Neutral 22x42mm	127-2242	Legend All Poly Cup 10° Hooded 22x42mm
177-2244	Legend All Poly Cup Neutral 22x44mm	127-2244	Legend All Poly Cup 10° Hooded 22x44mm
177-2846	Legend All Poly Cup Neutral 28x46mm	127-2846	Legend All Poly Cup 10° Hooded 28x46mm
177-2848	Legend All Poly Cup Neutral 28x48mm	127-2848	Legend All Poly Cup 10° Hooded 28x48mm
177-2850	Legend All Poly Cup Neutral 28x50mm	127-2850	Legend All Poly Cup 10° Hooded 28x50mm
177-2852	Legend All Poly Cup Neutral 28x52mm	127-2852	Legend All Poly Cup 10° Hooded 28x52mm
177-2854	Legend All Poly Cup Neutral 28x54mm	127-2854	Legend All Poly Cup 10° Hooded 28x54mm
177-2856	Legend All Poly Cup Neutral 28x56mm	127-2856	Legend All Poly Cup 10° Hooded 28x56mm
177-2858	Legend All Poly Cup Neutral 28x58mm	127-2858	Legend All Poly Cup 10° Hooded 28x58mm
177-2860	Legend All Poly Cup Neutral 28x60mm	127-2860	Legend All Poly Cup 10° Hooded 28x60mm
177-2862	Legend All Poly Cup Neutral 28x62mm	127-2862	Legend All Poly Cup 10° Hooded 28x62mm
177-2864	Legend All Poly Cup Neutral 28x64mm	127-2864	Legend All Poly Cup 10° Hooded 28x64mm
177-2866	Legend All Poly Cup Neutral 28x66mm	127-2866	Legend All Poly Cup 10° Hooded 28x66mm



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