

Full XPE™ Cup

Acetabular Hip System



Surgical Technique Guide

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Device Description

Full XPE Cup –

The Full XPE Cup is designed for cemented fixation in primary or revision hip arthroplasty.

Made from XPE (Highly Crosslinked Polyethylene) material, the cemented cup is designed to provide optimal stability and improved longevity.

The Full XPE Cup can be combined with a larger size femoral head to improve range of motion and reduce the potential for dislocation.

INDICATIONS

1. Non-inflammatory degenerative joint disease such as osteoarthritis, avascular necrosis, ankylosis, and painful hip dysplasia;
2. Inflammatory degenerative joint disease such as rheumatoid arthritis;
3. Correction of function deformity;
4. Revision procedures where other treatments or devices have failed;
5. Treatment of nonunion and femoral neck fractures of the proximal femur with head involvement that is unmanageable using other techniques.

This device is a single use implant and intended for cemented use only.

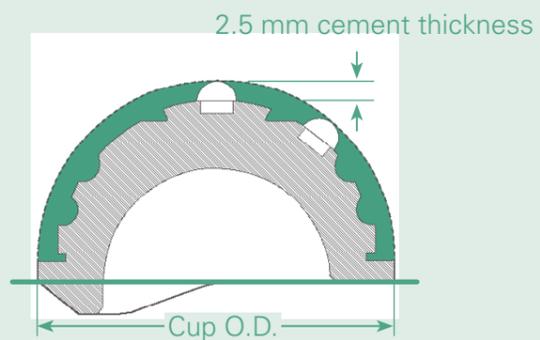
Please refer to the package inserts for important product information, including, but not limited to contraindications, warnings, precautions, and adverse effects.



Product Overview

PMMA Spacer

- Helps to centralize the cup and create a uniform 2.5 mm cement thickness intended to evenly distribute the load transfer to the cement and bone



Ease of Handling

- A proprietary locking mechanism allows all cup options to be inserted with the same cup positioner



Horizontal & Vertical Groove

- Designed to enhance torque resistance and cement-implant fixation

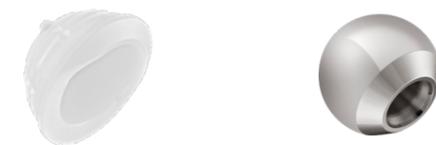
Pressurizing Flange

- Designed to allow for optimal cement penetration and to help prevent cement extrusion.

X-ray Marker

- Metal ring for X-ray image identification

Full XPE Cup and Femoral Head Compatibility Chart



Cup Size (mm)	Head Size (mm)
42	26
44, 46	28
48, 50	32
52~62	36

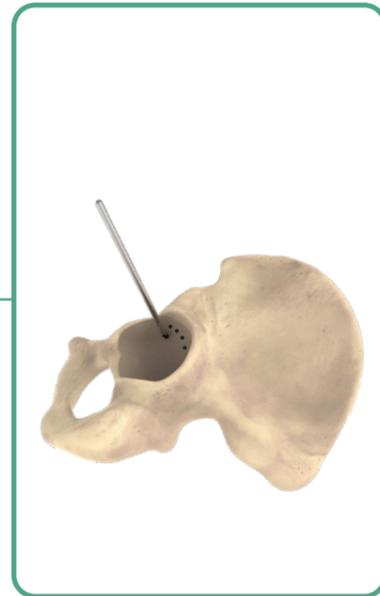
Surgical Overview



A. Acetabular Reaming



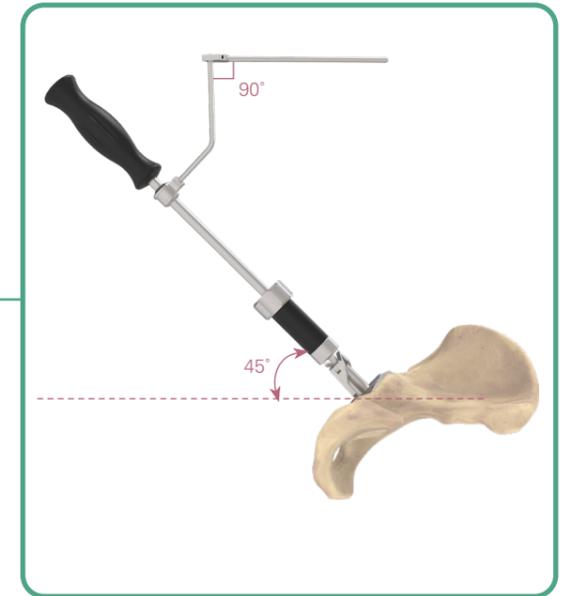
B. Cup Trialing



C. Preparation of Anchoring Hole



D. Cup Mounting

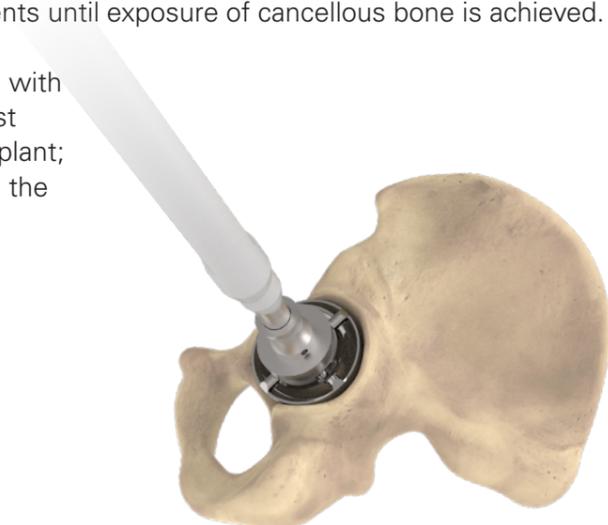


E. Cup Insertion

A. Acetabular Reaming

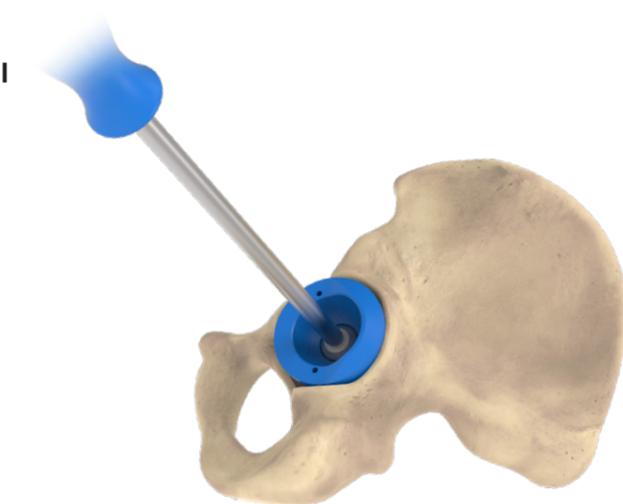
Hold the **Cup Reamer Handle** at an abduction of 40°- 45° and anteversion of 15°- 20°. Utilize the smallest **Cup Reamer** to start acetabular reaming, then subsequently proceed with enlarged reamers in 2 mm increments until exposure of cancellous bone is achieved.

The final implant size should correspond with the last reamer size used. (e.g., if the last reamer size is 52 mm, select 52 mm implant; 2.5 mm cement thickness is built within the outer dimension of acetabular cup.)



B. Cup Trialing

Once a proper acetabular cavity is established, place the **Full XPE Cup Trial** to verify the fit, contact and congruency of the prepared acetabulum.



Instruments



Cup Reamer Handle



Cup Reamer



Full XPE Cup Trial

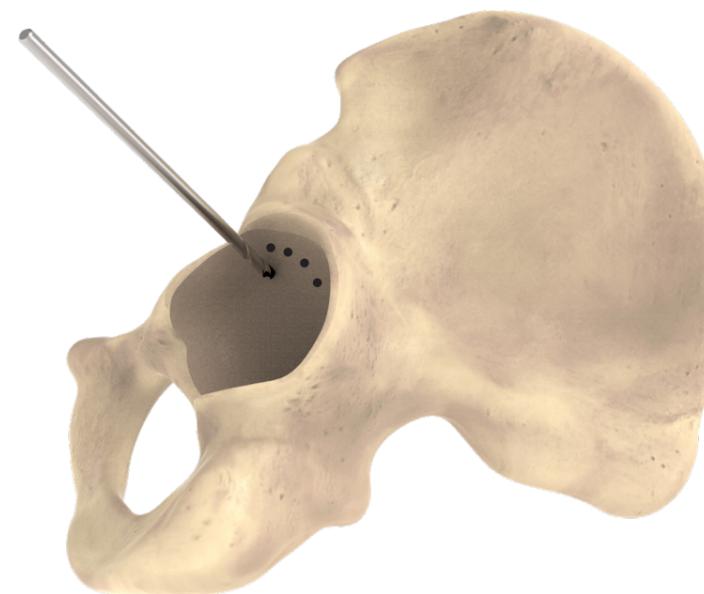


Universal Handle

C. Preparation of Anchoring Hole

It is recommended to use the **Straight Drill** to introduce multiple small anchoring holes in the acetabular wall for the enhancement of cement fixation. Care must be taken not to penetrate into the pelvis.

Proper cleaning, lavage, and drying of the prepared acetabulum is recommended before introducing the bone cement.



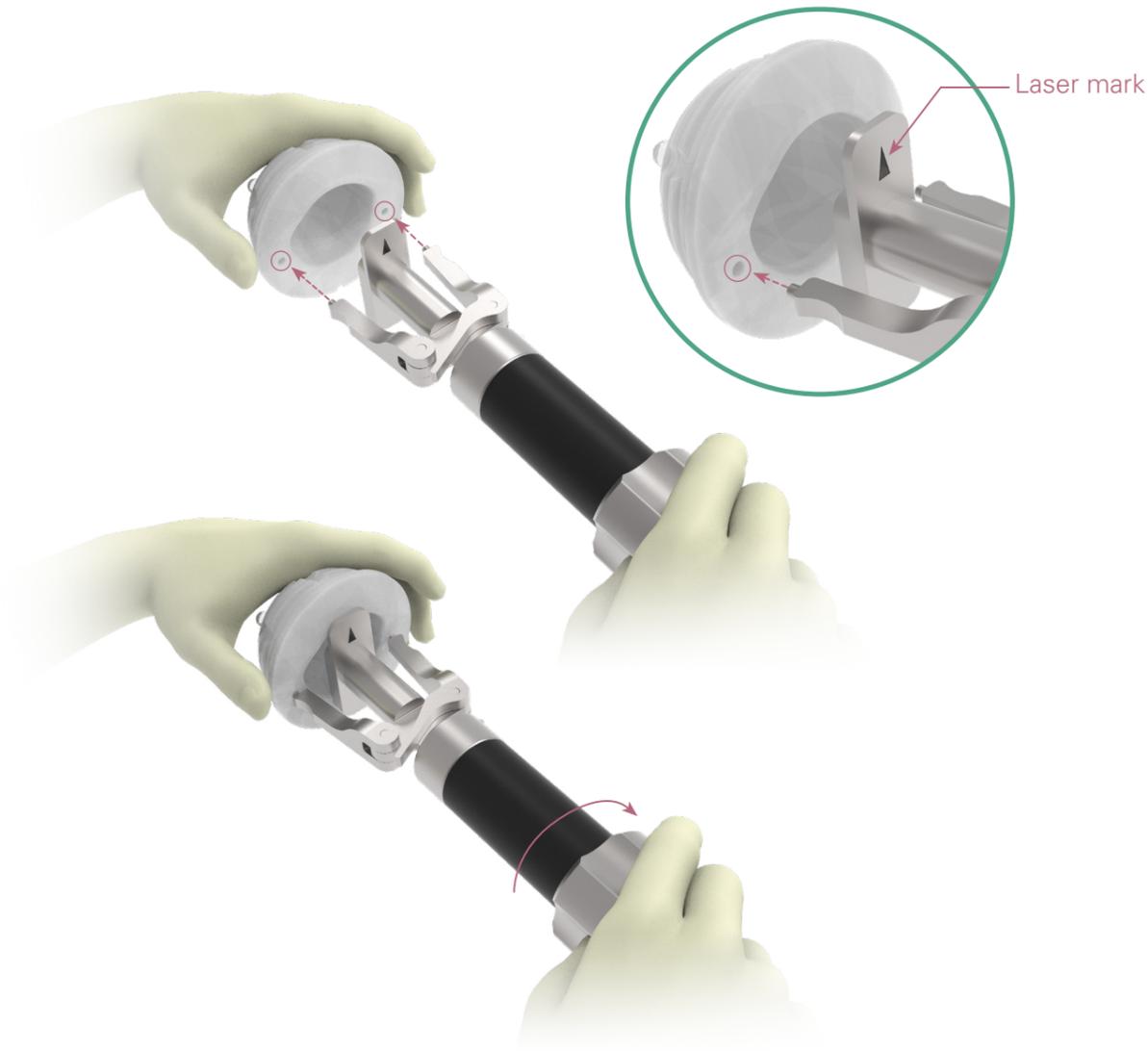
Instruments



Straight Drill

D. Cup Mounting

Select the cup size based on the reamer size last used. The XPE cup is assembled with the **XPE Cup Positioner** via a pin-hole engagement. The laser mark on the plate should align with the 20° lipped part of the XPE cup. Hold the cup with a thumb on the plate while locking the valve to secure the cup and positioner.



Instruments

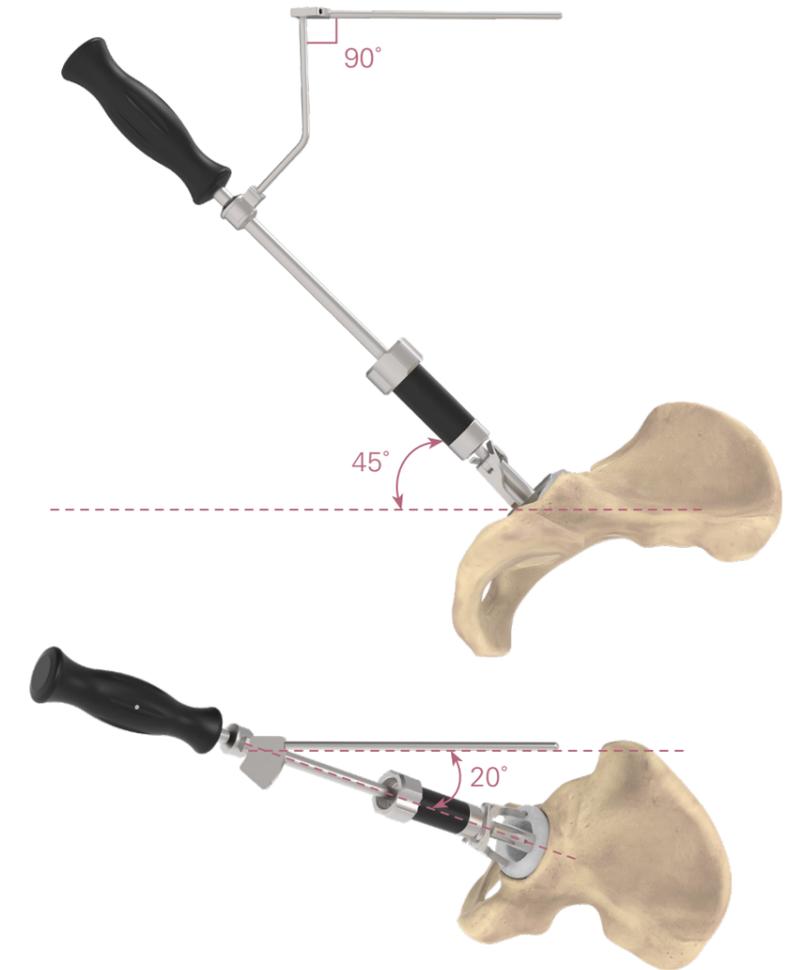


XPE Cup Positioner

E. Cup Insertion

Attach the **Alignment Tower** to the **XPE Cup Positioner** and thread the **Alignment Rod** into left/right screw hole of the tower. Reproducing the abduction and anteversion angle identified during the cup trialing, place the implant into the acetabulum.

Place the 20° lipped part in the ideal region of the acetabulum and pressurize the cup into the cement until the cement is polymerized. Unlock the valve to disengage the **XPE Cup Positioner** from the cup.



Instruments



Alignment Tower



XPE Cup Positioner



Alignment Rod

Order Information

Special Order Items

Catalog Number	Description (mm)	
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Full XPE Cup



1302 - 3042	42 mm	26 mm
1302 - 3844	44 mm	28 mm
1302 - 3846	46 mm	28 mm
1302 - 3248	48 mm	32 mm
1302 - 3250	50 mm	32 mm
1302 - 3652	52 mm	36 mm
1302 - 3654	54 mm	36 mm
1302 - 3656	56 mm	36 mm
1302 - 3658	58 mm	36 mm
1302 - 3660	60 mm	36 mm
1302 - 3662	62 mm	36 mm

*Special Specification Items:
 38 mm Cup compatible with 22 mm diameter femoral head
 40 mm Cup compatible with 22 mm diameter femoral head

The special specification items are only sold in certain area, please contact with local distributor for further information.

Femoral Head

Catalog Number	Description (mm)	
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U2 Femoral Head



1206 - 1026	Ø 26	- 2
1206 - 1126	Ø 26	+ 0
1206 - 1326	Ø 26	+ 3
1206 - 1526	Ø 26	+ 6
1206 - 1726	Ø 26	+ 9
1206 - 1028	Ø 28	- 3
1206 - 1128	Ø 28	+ 0
1206 - 1228	Ø 28	+ 2.5
1206 - 1428	Ø 28	+ 5
1206 - 1628	Ø 28	+ 7.5
1206 - 1828	Ø 28	+ 10
1206 - 1032	Ø 32	- 3
1206 - 1132	Ø 32	+ 0
1206 - 1232	Ø 32	+ 2.5
1206 - 1432	Ø 32	+ 5
1206 - 1632	Ø 32	+ 7.5
1206 - 1832	Ø 32	+ 10
1206 - 1036	Ø 36	- 3
1206 - 1136	Ø 36	+ 0
1206 - 1236	Ø 36	+ 2.5
1206 - 1436	Ø 36	+ 5
1206 - 1636	Ø 36	+ 7.5
1206 - 1836	Ø 36	+ 10

BIOLOX® delta Ceramic Head



1203 - 5028	Ø 28	S	- 2.5
1203 - 5228	Ø 28	M	+ 1
1203 - 5428	Ø 28	L	+ 4
1203 - 5032	Ø 32	S	- 3
1203 - 5232	Ø 32	M	+ 1
1203 - 5432	Ø 32	L	+ 5
1203 - 5632	Ø 32	XL	+ 8
1203 - 5036	Ø 36	S	- 3
1203 - 5236	Ø 36	M	+ 1
1203 - 5436	Ø 36	L	+ 5
1203 - 5636	Ø 36	XL	+ 9

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