UNITED ORTHOPEDIC®

Bipolar II™ Cap

Hemi-Arthroplasty Hip System

Surgical Technique Guide

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Device Description

Bipolar II Cap –

Bipolar II can be used in hemi-arthroplasty which is indicated in the case of femoral neck fracture, trauma, and the early-stage avascular necrosis when the acetabulum remains intact.

Bipolar II features a one-piece assembly with simple locking ring mechanism and a highly polished surface.

The Bipolar II Cap is available in sizes ranging from 38 mm to 60 mm, with material options of UHMWPE and E-XPE.

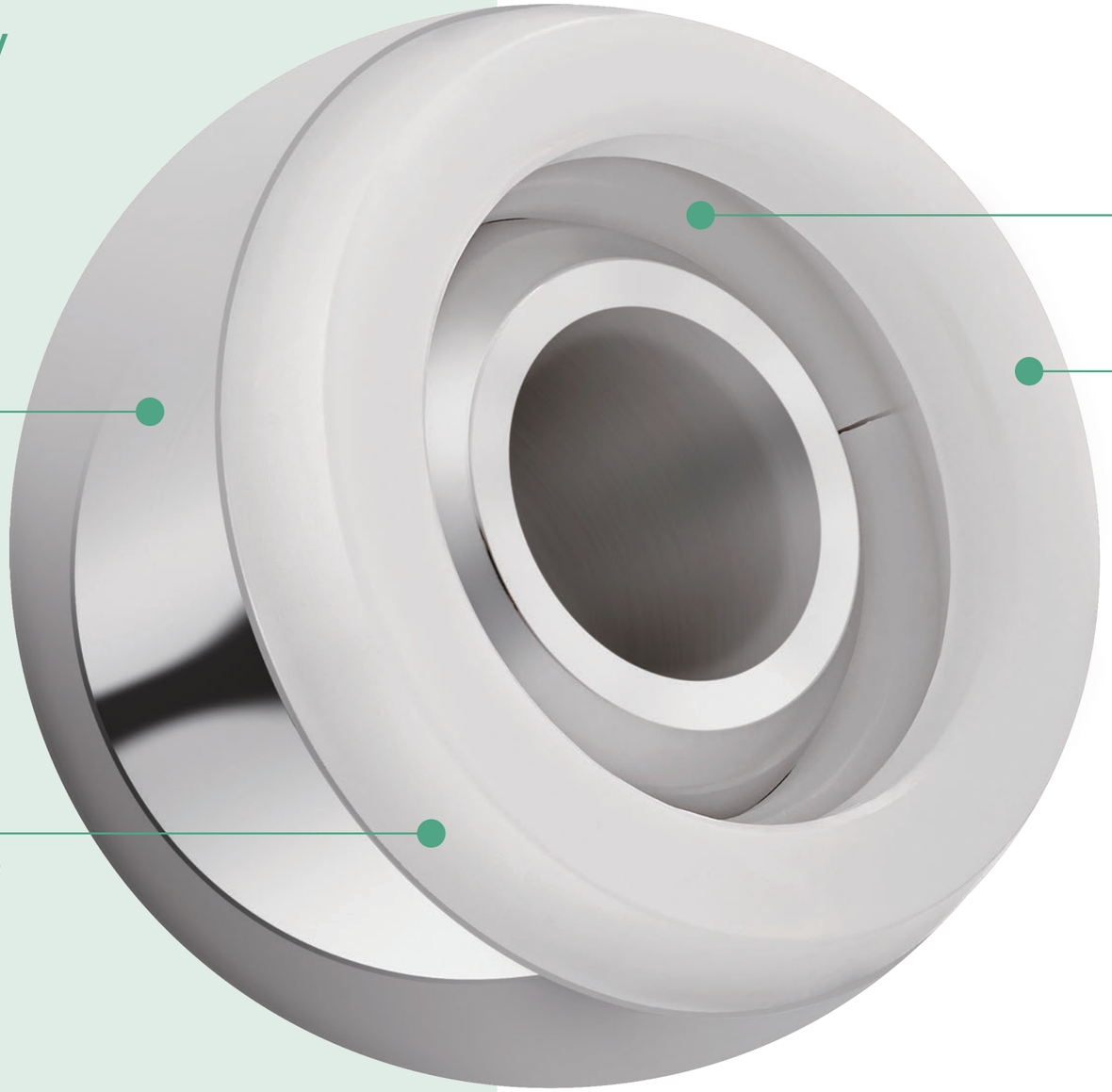
INDICATIONS

U2 Bipolar Implant is intended for use in combination with UNITED Femoral System for cemented or cementless hemi-arthroplasty. This device may be used for the following conditions:

1. Non-inflammatory degenerative joint disease such as osteoarthritis, avascular necrosis, ankylosis, protrusio acetabuli, 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, femoral neck, and trochanteric fractures of the proximal femur with head involvement that are unmanageable using other techniques.

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

Product Overview



Highly Polished Surface

- Designed to reduce the erosion of the acetabulum
- Metal surface roughness of Ra ≤ 0.02 μm is well within the ISO Standard of Ra ≤ 0.5 μm

Classic and Advanced Polyethylene Options

- UHMWPE (Ultra-High Molecular Weight Polyethylene)
- E-XPE (Vitamin-E Highly Crosslinked Polyethylene)

Anti-rotation Design

- Minimizes micromotion between the cap and the PE liner

Outer Beveled Lip Design

- Allows for easy reduction

One-piece Assembly with Simple Locking Ring Mechanism

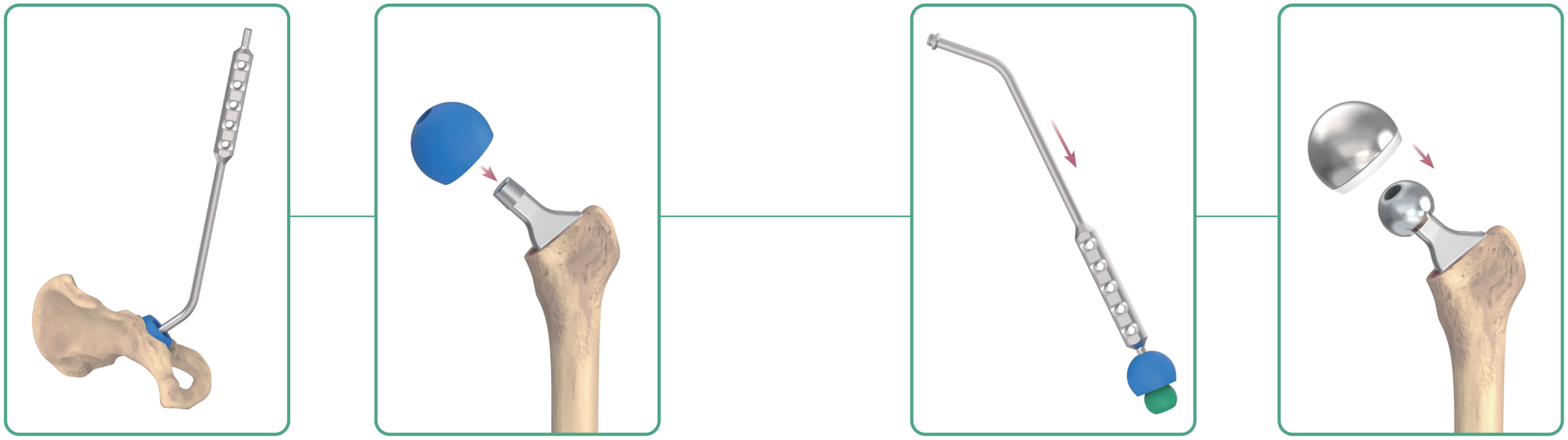
- Designed to simplify surgical efficiency while maintaining strength

- Minimum polyethylene thickness of 5 mm

Bipolar II Cap and Femoral Head Compatability Chart

Outer Diameter (mm)	Head Size (mm)
38	22
39	
40	
41	22 or 26
42	
43	28
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
58	
60	

Surgical Overview



A. Size the Acetabulum

B. Trial Assembly and Reduction

C. Trial Disassembly

D. Implant Assembly

A. Size the Acetabulum

Use the preoperative template or measure the excised femoral head to estimate acetabular size.

Assemble the **Bipolar Trial** to the **Bipolar Trial Handle** to measure the acetabular size. Ensure the **Bipolar Trial** fits in the patient's acetabulum.

The Bipolar II Cap is available in 1 mm increments from 38 mm to 56 mm, and 2 mm increments from 56 mm to 60 mm.

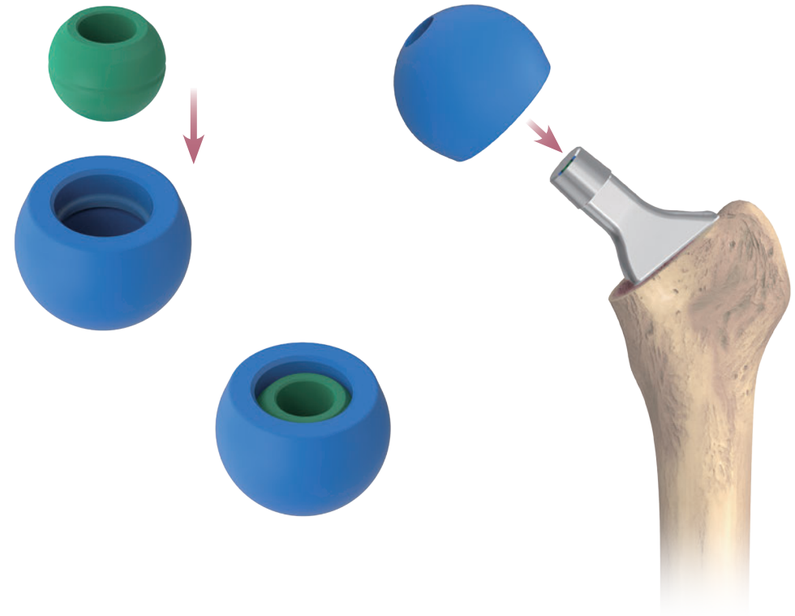
Instruments

Bipolar Trial Handle

U2 Bipolar Trial

B. Trial Assembly and Reduction

Assemble the corresponding size **Femoral Head Trial** to the **Bipolar Trial**. Connect it to the **Neck Trial** and perform the trial reduction.



Cup Trial Sizes (mm)	38, 39, 40	41, 42	43-56, 58, 60
Head Trial Sizes (mm)	22	22/26	28

Instruments

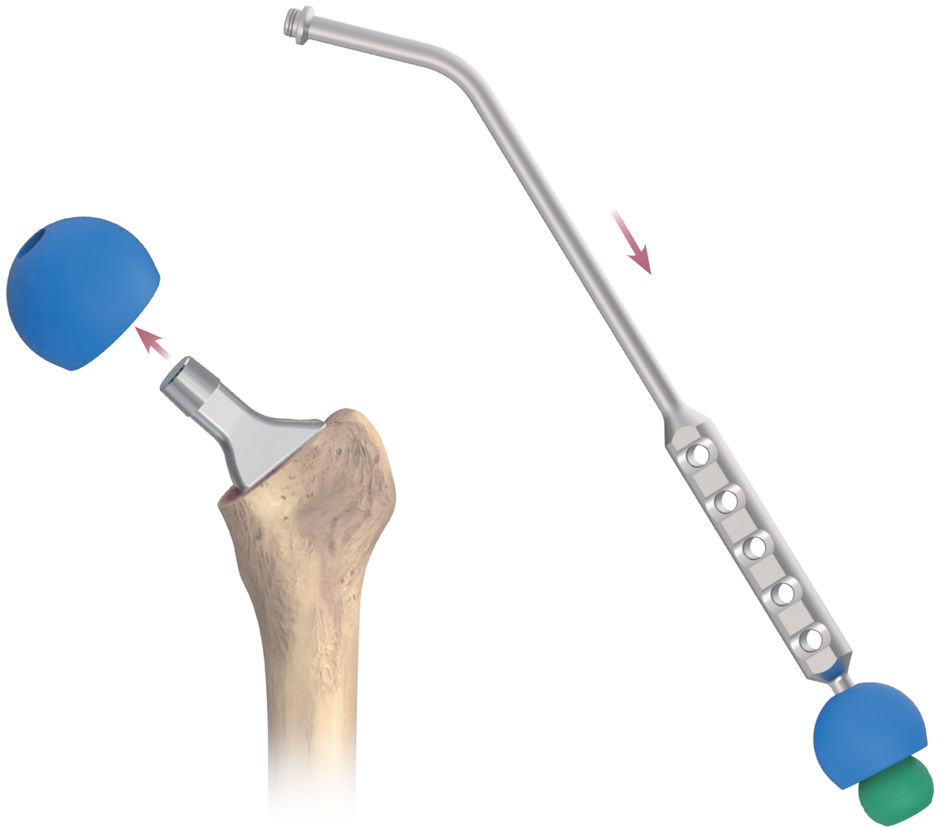
U2 Bipolar Trial

U2 Femoral Head Trial

C. Trial Disassembly

Disconnect the trial assembly (**Bipolar Trial** and **Femoral Head Trial**) from the **Neck Trial**.

Drive the **Bipolar Trial Handle** tip into the threaded hole on the **Bipolar Trial** to eject the **Femoral Head Trial** from the **Bipolar Trial**.



Instruments

Bipolar Trial Handle

U2 Bipolar Trial

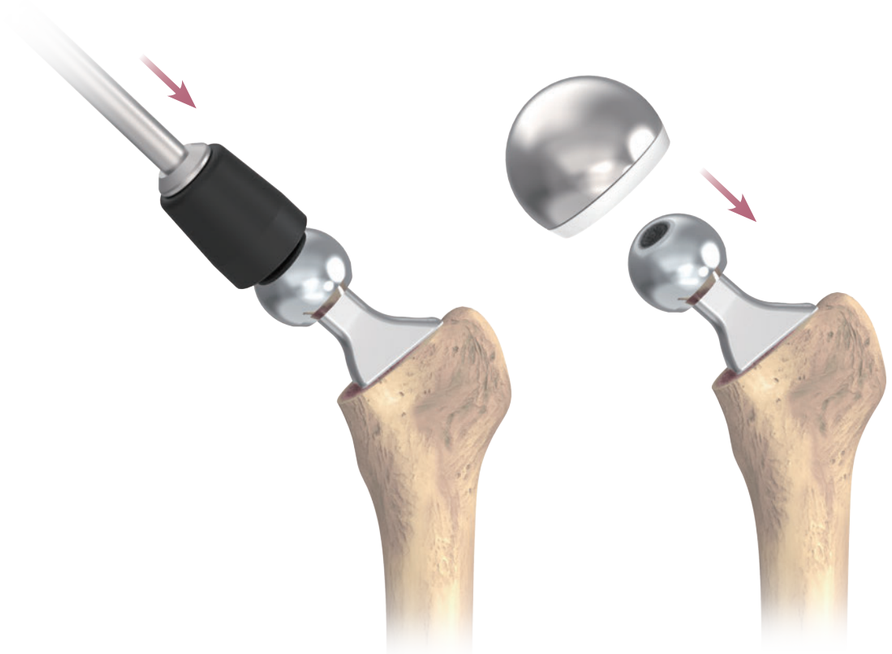
U2 Femoral Head Trial

D. Implant Assembly

Connect the **Femoral Head Impactor** to the **Universal Handle**, and impact the femoral head until it is firmly engaged with the stem trunnion.

Push the Bipolar II Cap onto the femoral head until it snaps into place.

When fully seated, the locking ring mechanism of the Bipolar II Cap should secure the femoral head within the Bipolar II Cap.



Instruments

Femoral Head Impactor

Universal Handle

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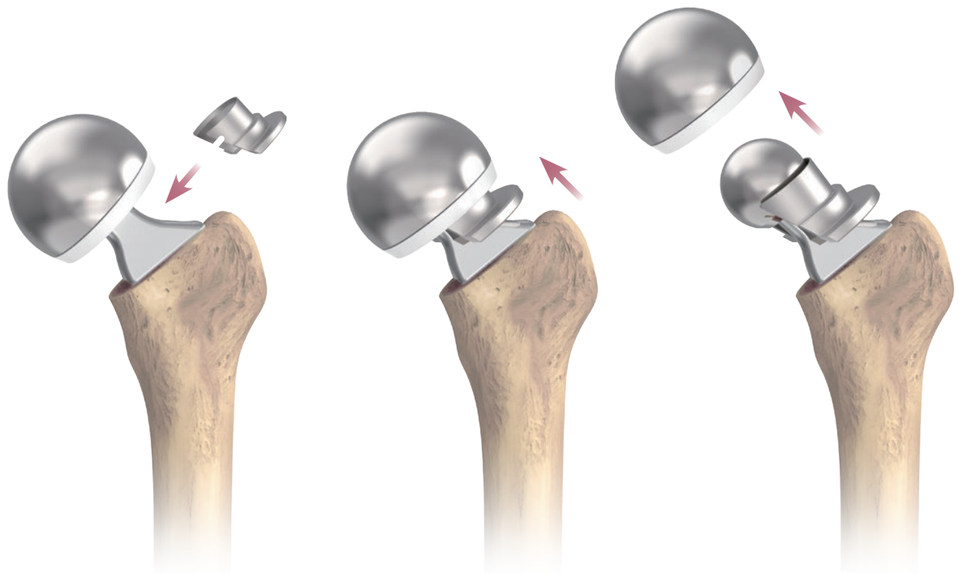
Appendix

Implant Disassembly

Utilize the **Head Remover** to disengage the locking ring mechanism of the Bipolar II Cap to disassemble the Bipolar II Cap from the femoral head.



Instruments

Head Remover

Each Step
We Care

Order Information

Special Order Items

	Catalog Number		Outer Diameter (mm)	Inner Diameter (mm)
Bipolar II Cap	**UHMWPE**	**E-XPE**		
UHMWPE 	1503- 3338	1503- 7238	Ø 38	Ø 22
	1503- 3339	1503- 7239	Ø 39	Ø 22
	1503- 3340	1503- 7240	Ø 40	Ø 22
	1503- 3341	1503- 7241	Ø 41	Ø 22
	1503- 3342	1503- 7242	Ø 42	Ø 22
	1503- 3041	1503- 7641	Ø 41	Ø 26
	1503- 3042	1503- 7642	Ø 42	Ø 26
E-XPE 	1503- 3143	1503- 7843	Ø 43	Ø 28
	1503- 3144	1503- 7844	Ø 44	Ø 28
	1503- 3145	1503- 7845	Ø 45	Ø 28
	1503- 3146	1503- 7846	Ø 46	Ø 28
	1503- 3147	1503- 7847	Ø 47	Ø 28
	1503- 3148	1503- 7848	Ø 48	Ø 28
	1503- 3149	1503- 7849	Ø 49	Ø 28
	1503- 3150	1503- 7850	Ø 50	Ø 28
	1503- 3151	1503- 7851	Ø 51	Ø 28
	1503- 3152	1503- 7852	Ø 52	Ø 28
	1503- 3153	1503- 7853	Ø 53	Ø 28
	1503- 3154	1503- 7854	Ø 54	Ø 28
	1503- 3155	1503- 7855	Ø 55	Ø 28
	1503- 3156	1503- 7856	Ø 56	Ø 28
	1503- 3158	1503- 7858	Ø 58	Ø 28
	1503- 3160	1503- 7860	Ø 60	Ø 28

Order Information

	Catalog Number	Outer Diameter (mm)		Offset (mm)
U2 Femoral Head				
	1206 - 1122	* Ø 22		+ 0
	1206 - 1322	* Ø 22		+ 3
	1206 - 1522	* Ø 22		+ 6
	1206 - 1722	* Ø 22		+ 9
	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
BIOLOX® *delta* Ceramic Head				
	1203 - 5022	* Ø 22	S	+ 1
	1203 - 5222	* Ø 22	M	+ 3
	1203 - 5422	* Ø 22	L	+ 5
	1203 - 5028	Ø 28	S	- 2.5
	1203 - 5228	Ø 28	M	+ 1
	1203 - 5428	Ø 28	L	+ 4

* The actual spherical diameter of a 22 mm head is 22.2 mm.

*BIOLOX® is a registered trademark of the CeramTec Group, Germany

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