

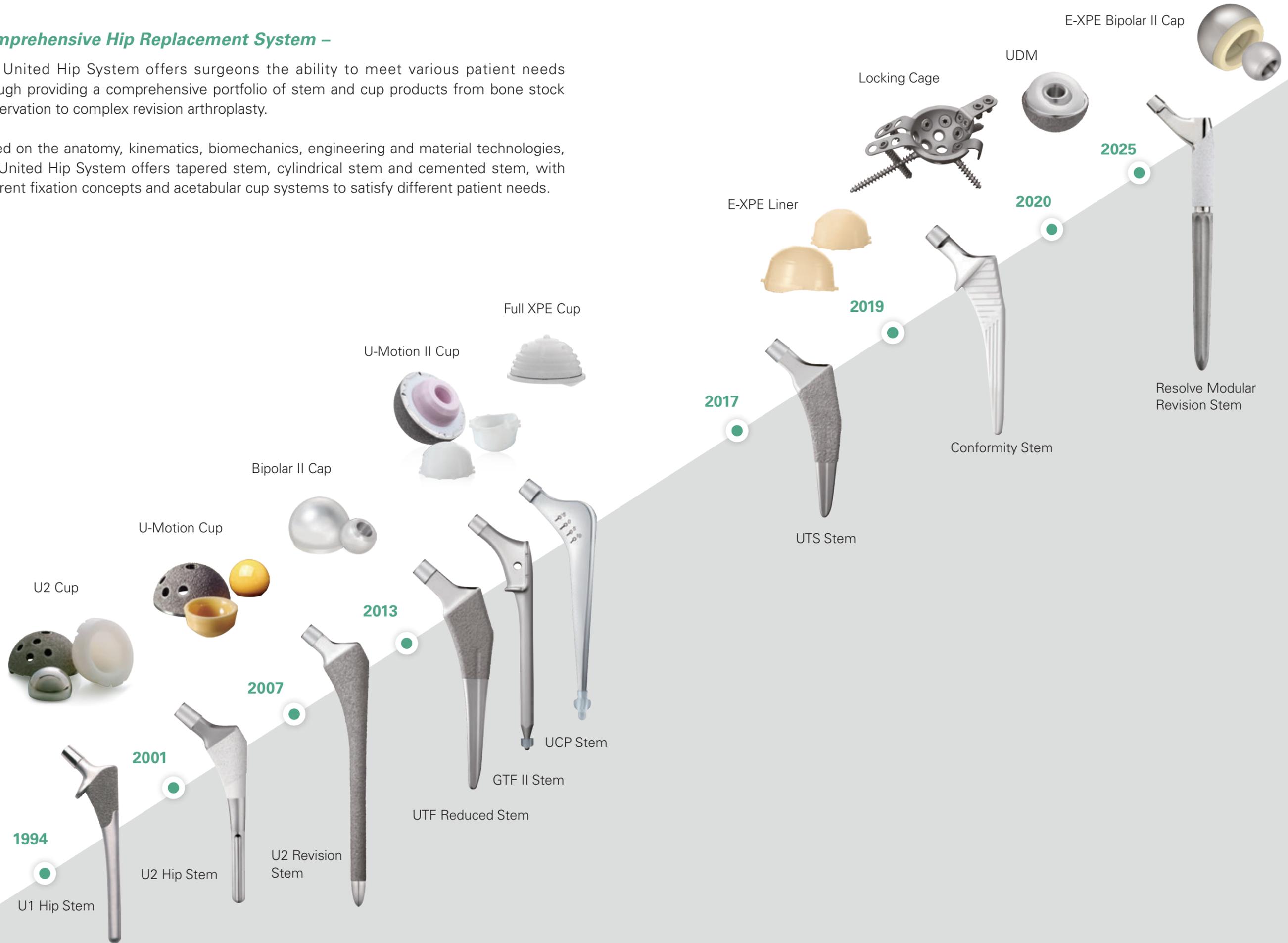
# United Hip System



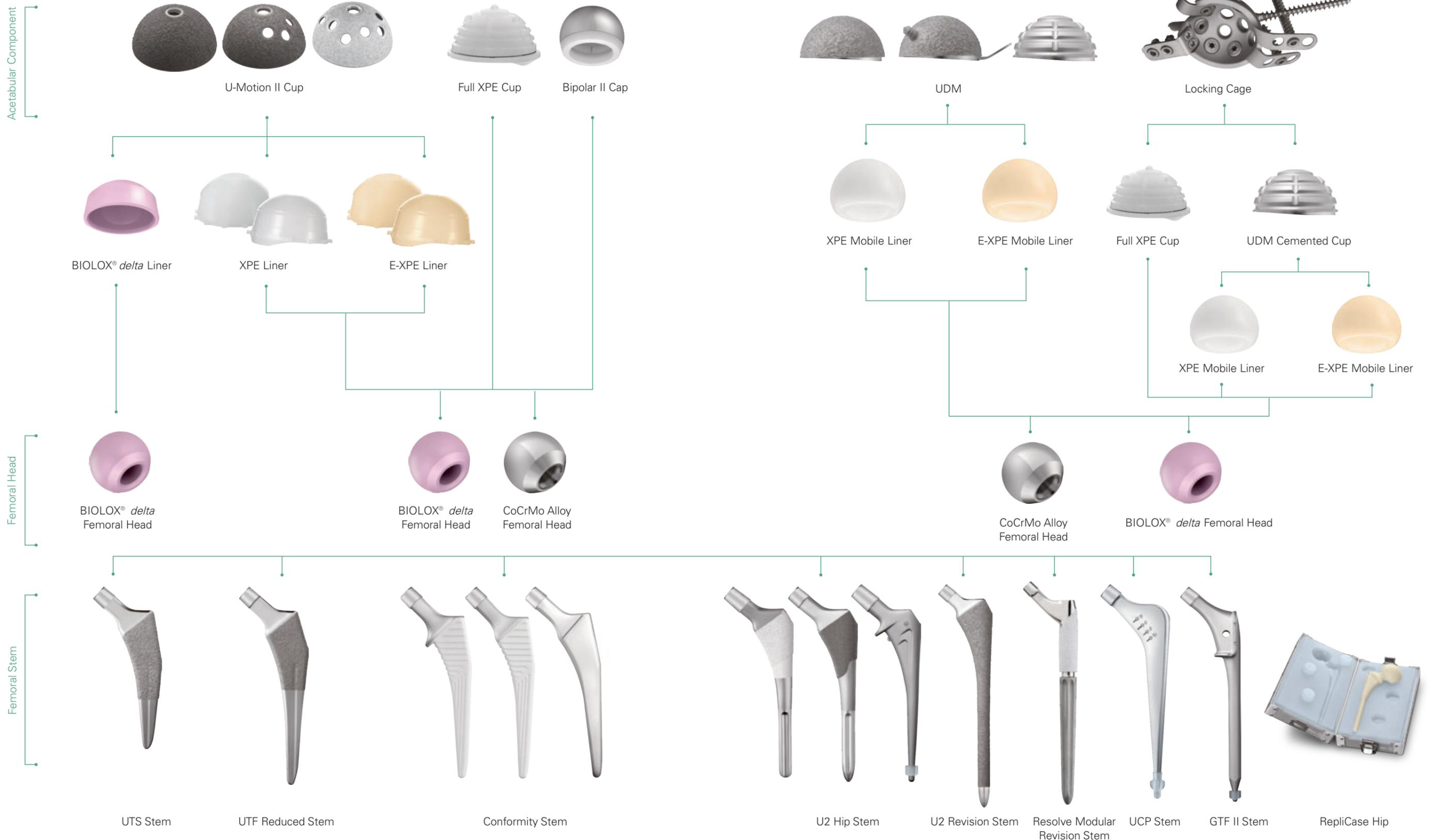
### Comprehensive Hip Replacement System –

The United Hip System offers surgeons the ability to meet various patient needs through providing a comprehensive portfolio of stem and cup products from bone stock preservation to complex revision arthroplasty.

Based on the anatomy, kinematics, biomechanics, engineering and material technologies, the United Hip System offers tapered stem, cylindrical stem and cemented stem, with different fixation concepts and acetabular cup systems to satisfy different patient needs.



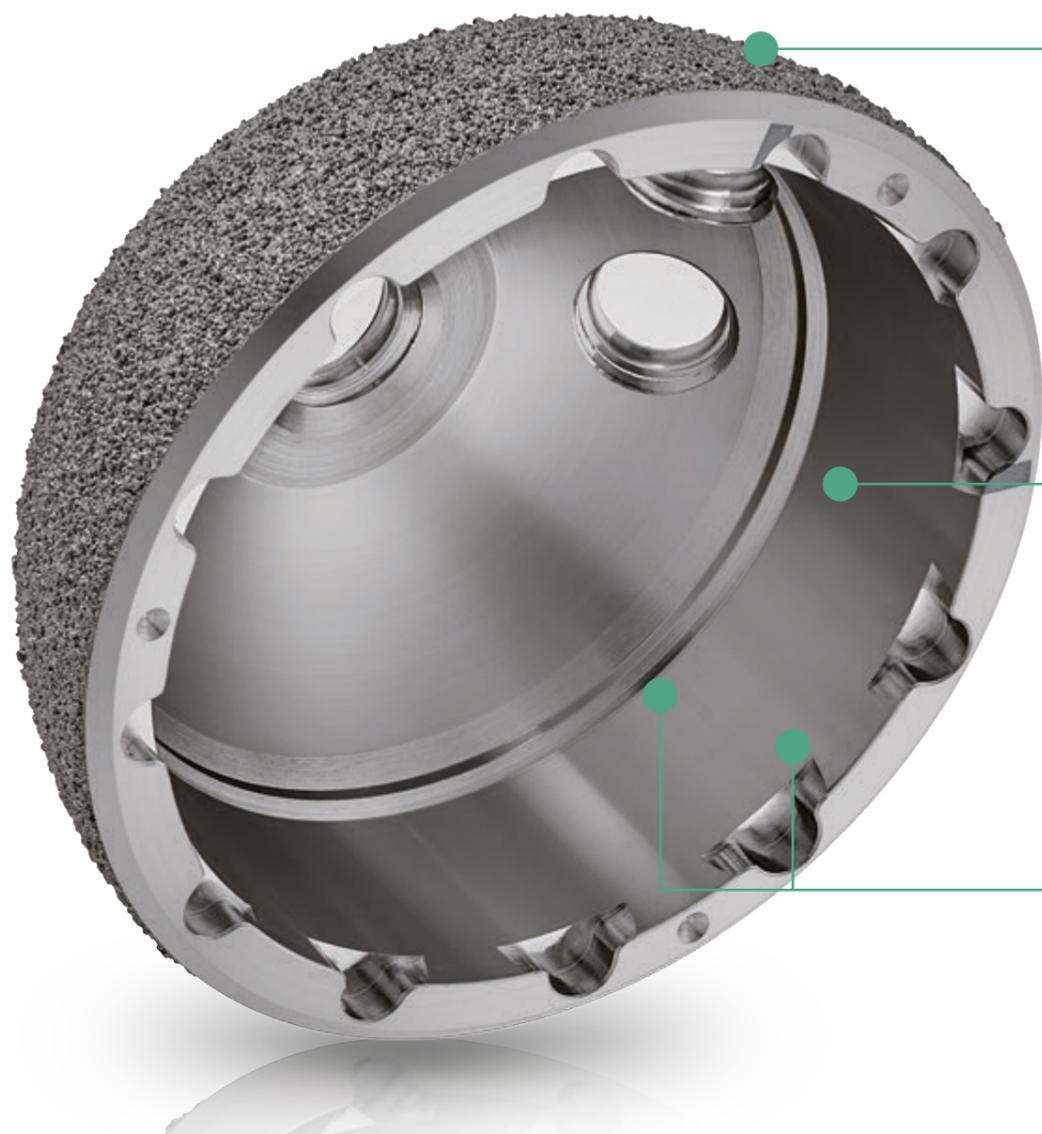
# Overview



\*BIOLOX® is a registered trademark of the CeramTec Group, Germany  
 \*CoCrMo is an abbreviation for cobalt chromium molybdenum.

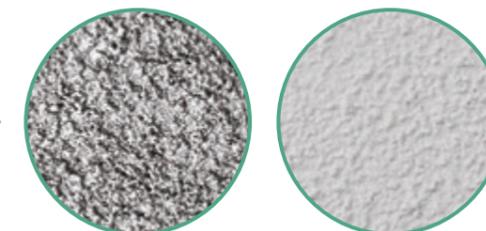
# U-Motion II™ Cup

Comprehensive cementless acetabular system



## Four Coating Surfaces Designed to Improve Biological Fixation

- Titanium Plasma Spray (TPS)
- Titanium Plasma Spray (TPS) with Hydroxyapatite (HA)
- Titanium Plasma Spray PLUS (TPS PLUS)
- Titanium Plasma Spray PLUS (TPS PLUS) with Hydroxyapatite (HA)



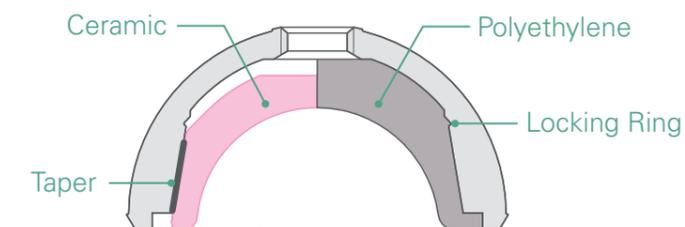
## Multiple Cup Configurations

- No-hole, cluster-hole, and multi-hole cup configuration are available from 44 mm to 70 mm



## Universal Locking Mechanism

- U-Motion II acetabular cup can be used with polyethylene and ceramic liner



## Three Liner Material Options are Available



**E-XPE**  
( Vitamin E Highly Crosslinked Polyethylene )



**XPE**  
( Highly Crosslinked Polyethylene )



**BILOX® delta**

Standard and 20 ° lipped poly liners are available in XPE and E-XPE material.

## Two Femoral Head Material Options are Available



**CoCrMo Alloy**

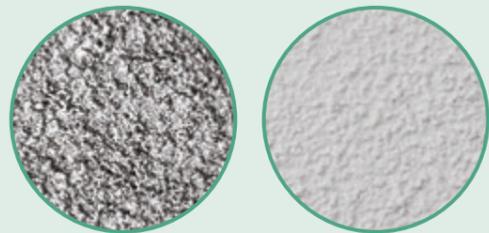


**BILOX® delta**

# UDM™

## Mobile bearing hip solution for demanding situations

The United Dual Mobility Cup series provides ideal solutions with large mobile liner which maximize the jumping distance to help prevent joint dislocation, and increases the full range of motion for functional high-demand users.



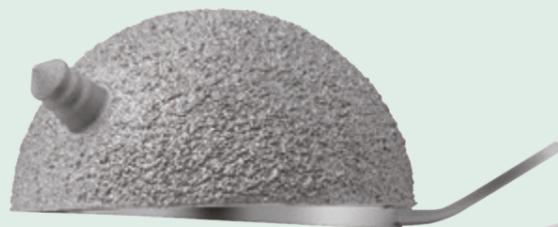
### Coating Surfaces

- TPS PLUS
- TPS PLUS with HA

Several bone / implant interface are prepared for achieving the ideal long-term stability.



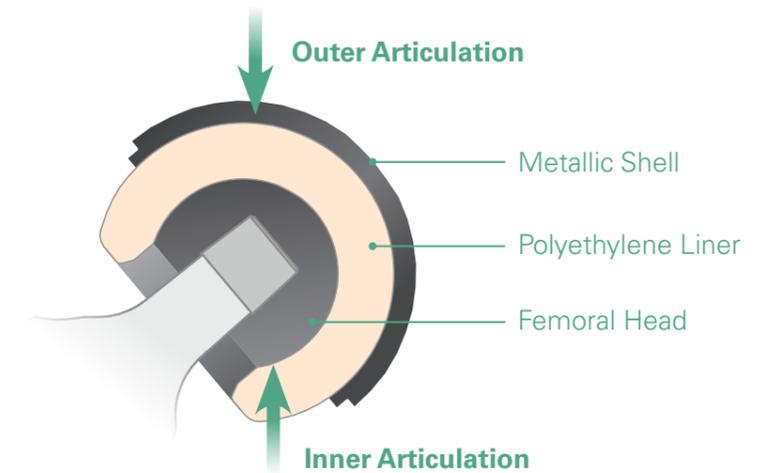
Press-fit



Peg-fixed



Cemented



Superior biocompatibility, mechanical durability, and the highly polished finish of the inner surface of the cobalt-chrome alloy cup helps to reduce wear between the cup and the liner.

### Mobile Liner Material Options



XPE Mobile Liner



E-XPE Mobile Liner

# Full XPE™ Cup

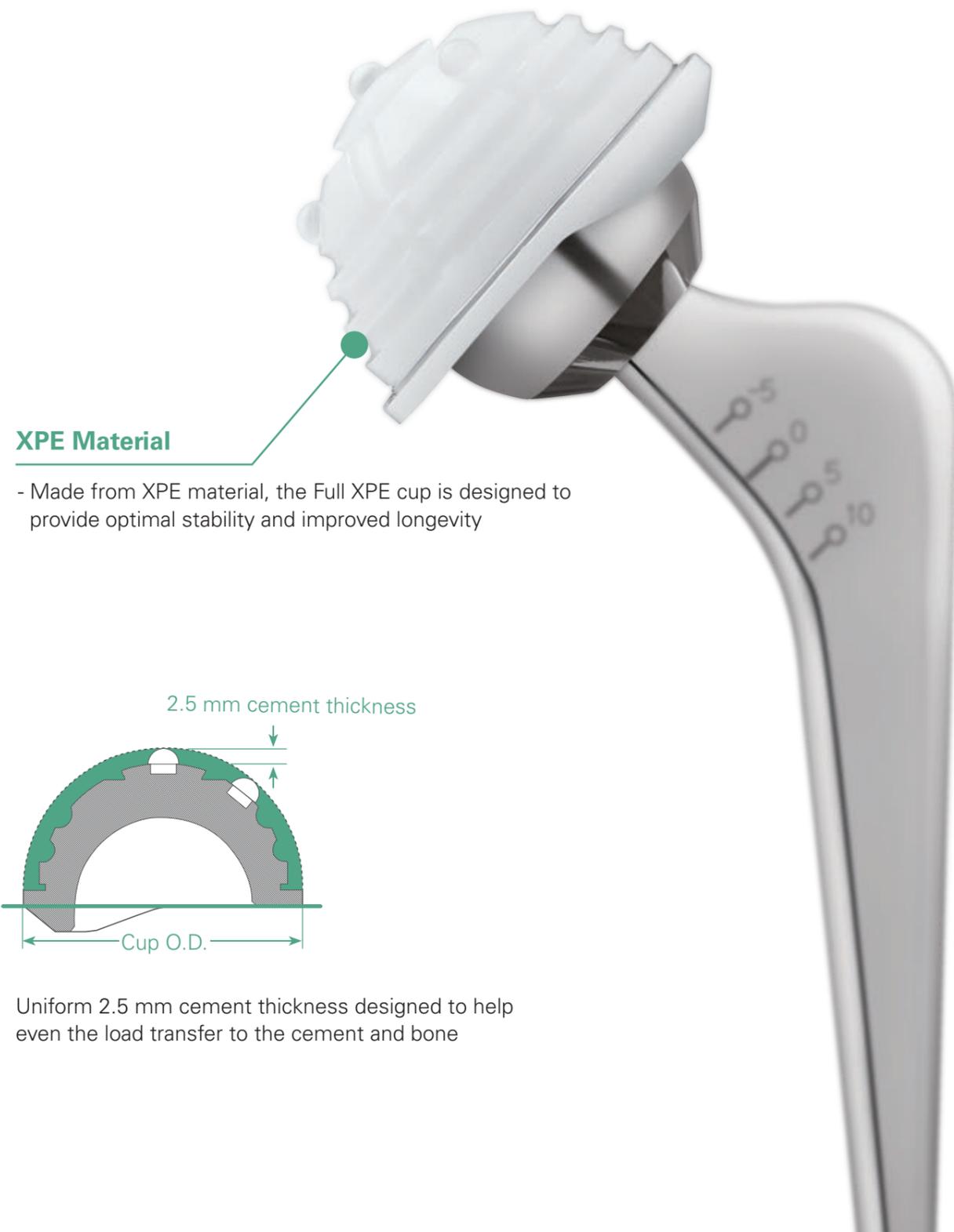
All poly cemented acetabular solution for hip arthroplasty

Designed for cemented fixation in primary or revision hip arthroplasty.

# Bipolar II™ Cap

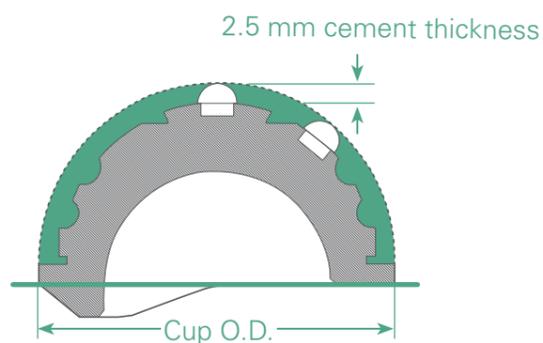
Solution for hemi-arthroplasty

One-piece assembly with simple locking ring mechanism designed to allow surgical efficiency while maintaining strength.

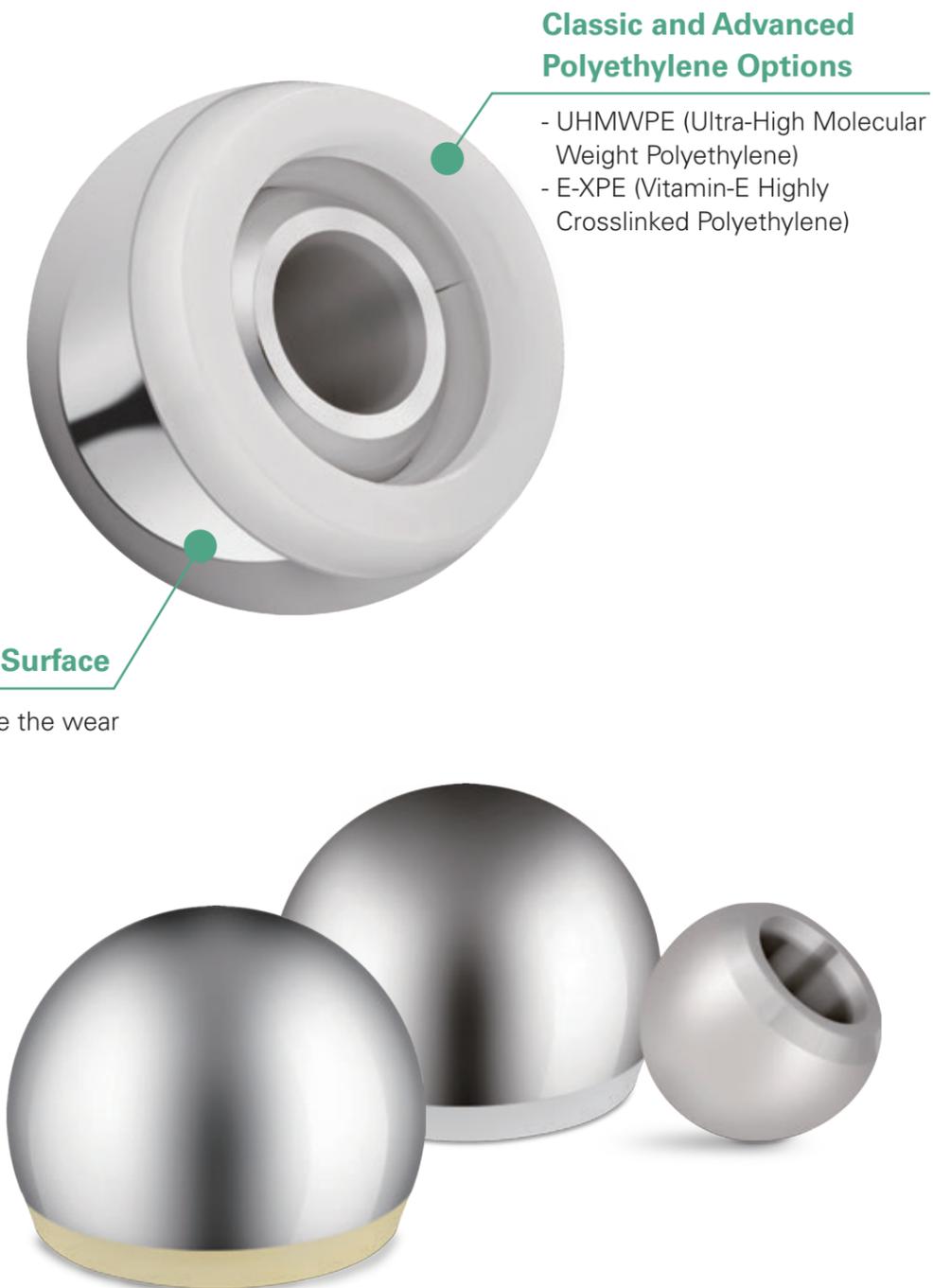


### XPE Material

- Made from XPE material, the Full XPE cup is designed to provide optimal stability and improved longevity



Uniform 2.5 mm cement thickness designed to help even the load transfer to the cement and bone



### Classic and Advanced Polyethylene Options

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

### Highly Polished Surface

- Designed to reduce the wear of the acetabulum

## UTS™ Stem

Ideal for the MIS Approach

## UTF™ Reduced Stem

Taper-fit Fixation



### Tri-tapered Design

- Helps to ensure primary fixation while providing rotational stability

### Shorter Stem Length

- Allows for the potential to preserve more host bone and improve implant fixation

### TPS and TPS with HA Coating

- Designed to improve biological fixation

### Consistent Size Increment in UTS

- Consistent 1.5 mm increment in width enables surgeons to properly size the implant

### Dual Taper Design

- Intended to engage the cortex in the stem corners to provide excellent fixation
- Provide superior axial and rotational stability

### TPS Coating

- Designed to improve biological fixation

### Refined Proximal Width in UTF

- 1.0 mm proximal width increments between commonly used sizes enables the surgeon to optimize between different metaphyseal widths

# Conformity™ Stem

Conform to reality

The Conformity Stem platform provides a comprehensive stem solution to hip arthroplasty surgery.

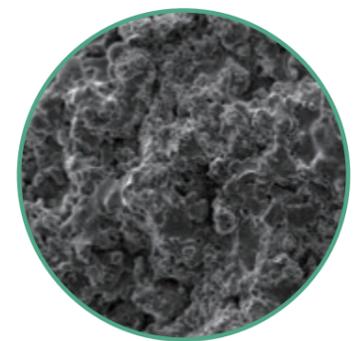
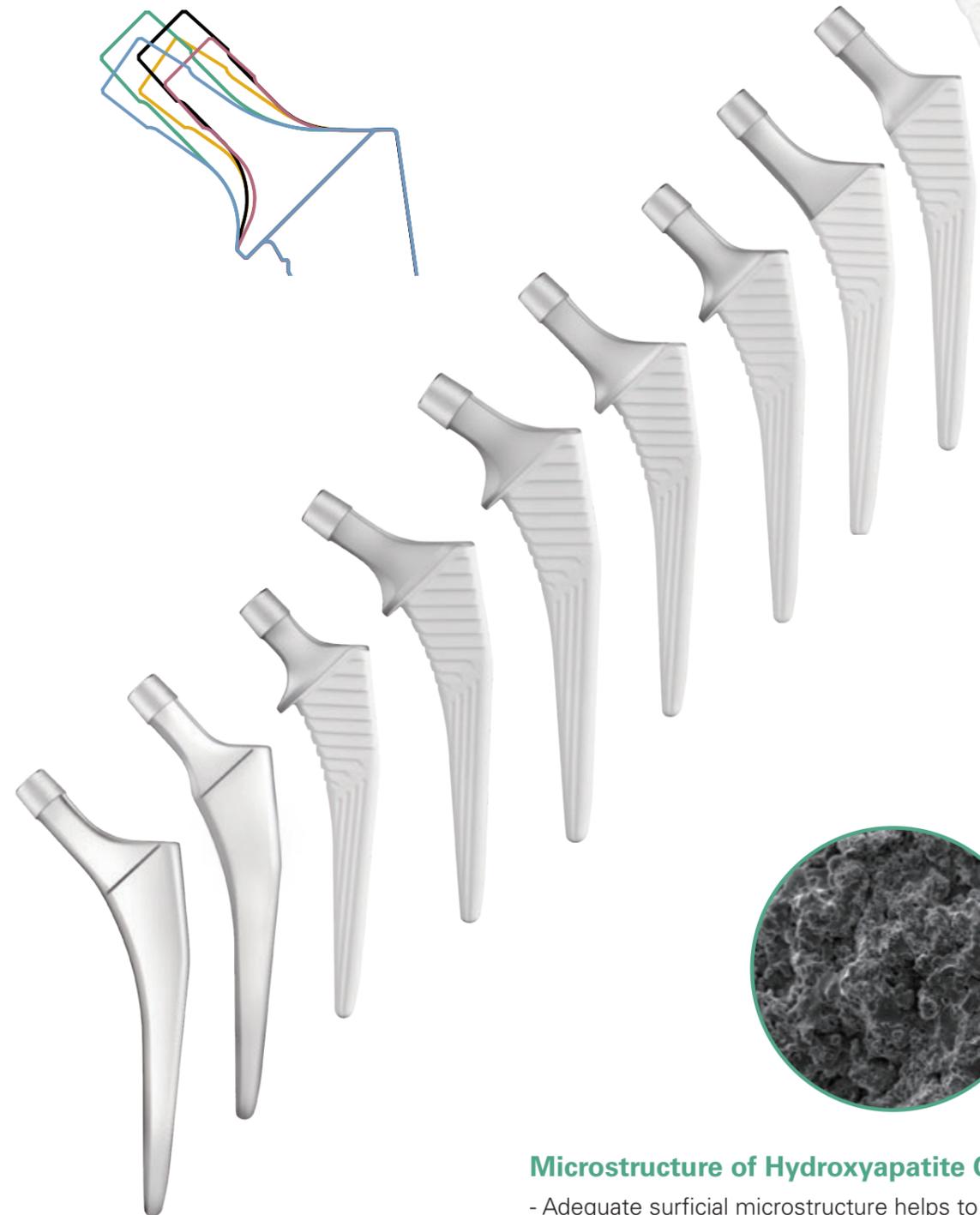
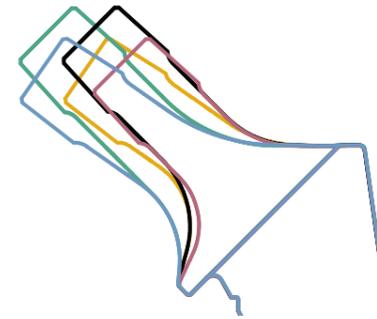
Following the classic concept of a fully-hydroxyapatite (HA) coating on the stem, multiple neck options, collared and collarless features, cementless and cemented options are available for surgeons to offer 81 various solutions for clinical situations, and to provide the implant that best meets the patient's needs.

A compaction broaching technique is utilized to help provide initial stability and preserve bone stock and blood supply.



## 5 Options for Neck Restoration

- Standard
- High Offset
- Coxa Vara Standard
- Coxa Vara High Offset
- Short Neck



## Microstructure of Hydroxyapatite Coating

- Adequate surficial microstructure helps to promote ideal osteoconduction after Conformity stem insertion

# U2™ Hip Stem

Novel matrix sizing enables optimal fit and fill

## Tri-wedge Design

- Provides axial and rotational stability
- Helps achieve normal proximal load transfer and reduce the potential for stem subsidence



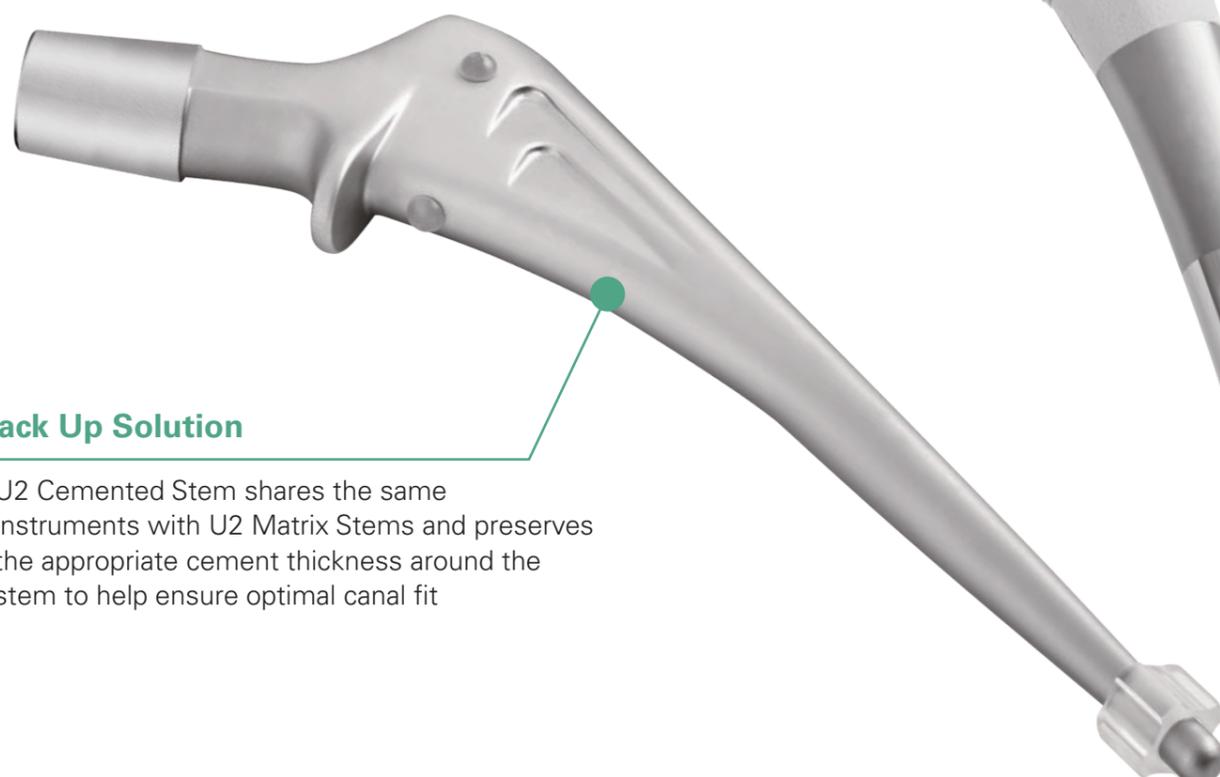
**U2 Matrix HA Stem**



**U2 Matrix Porous Stem**



**U2 Cemented Stem**



## Back Up Solution

- U2 Cemented Stem shares the same instruments with U2 Matrix Stems and preserves the appropriate cement thickness around the stem to help ensure optimal canal fit

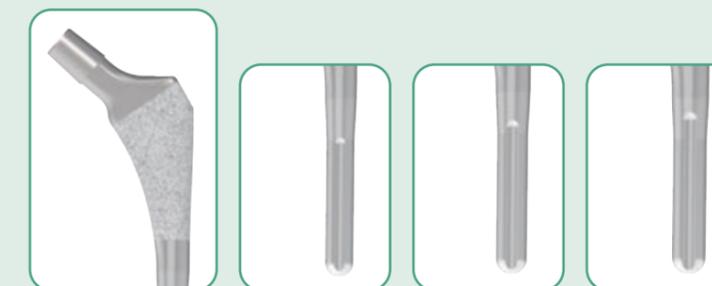
## Matrix Sizing

- Addresses both proximal and distal canal "fit-and-fill" in order to achieve optimal load transfer and excellent initial stability in a variety of femoral canal shapes

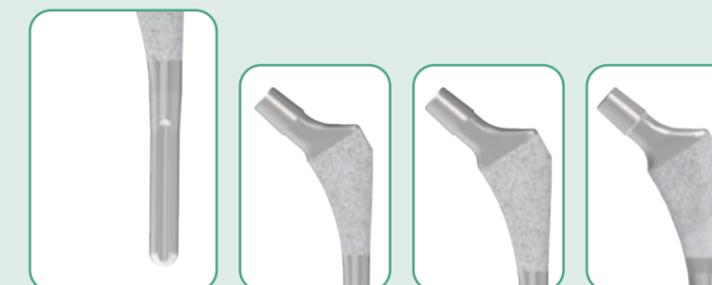
Proximal Size (#, Size)	#7							#7	
	#6					#6	#6		
	#5				#5	#5			
	#4			#4	#4				
	#3		#3	#3	#3				
	#2		#2	#2					
	#1		#1						
	#0	#0							
	#0	8	9	10	11	12	13	14	15
	Distal Diameter ( Ø, mm )								

Matrix sizing distribution chart for U2 Matrix Porous Stem and U2 Matrix HA Stem

## Examples of Matrix Size Distribution



- Proximal size 3 is available in 10, 11 and 12 mm distal diameter options



- 11 mm distal diameter is available in #2, #3 and #4 proximal size options

# U2™ Revision Stem

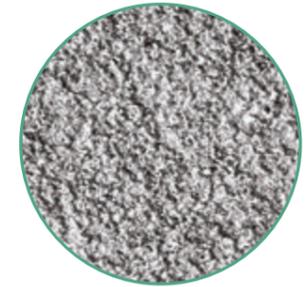
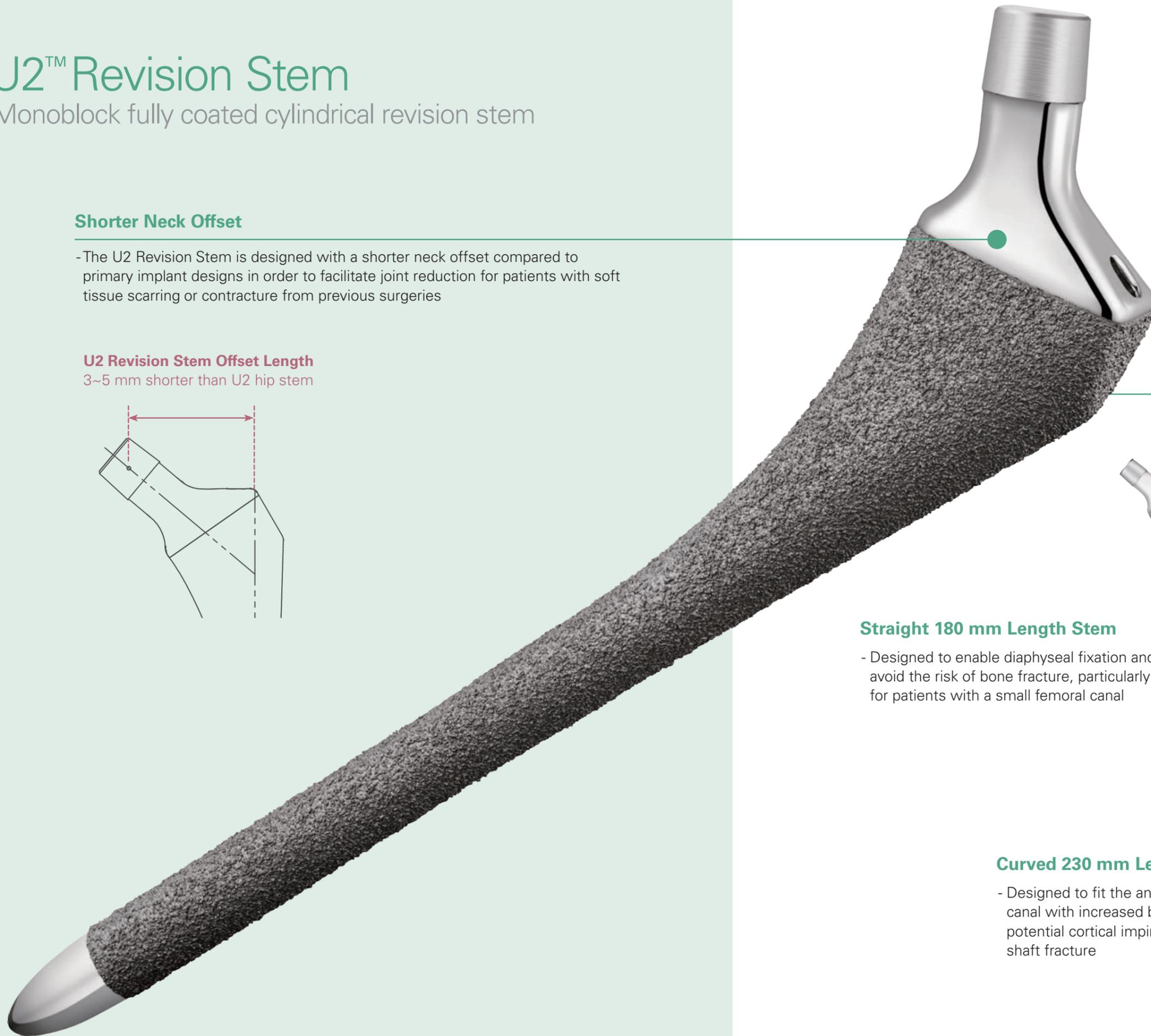
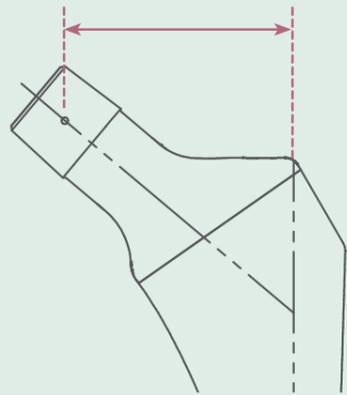
Monoblock fully coated cylindrical revision stem

## Shorter Neck Offset

- The U2 Revision Stem is designed with a shorter neck offset compared to primary implant designs in order to facilitate joint reduction for patients with soft tissue scarring or contracture from previous surgeries

## U2 Revision Stem Offset Length

3~5 mm shorter than U2 hip stem

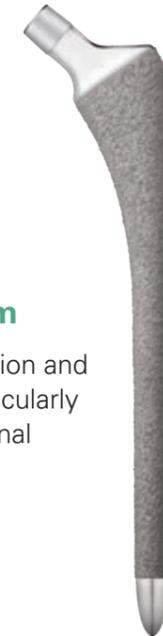


## Fully Titanium-Plasma Spray Coating

- Designed to promote biological fixation

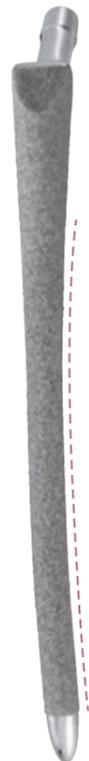
## Straight 180 mm Length Stem

- Designed to enable diaphyseal fixation and avoid the risk of bone fracture, particularly for patients with a small femoral canal



## Curved 230 mm Length Stem

- Designed to fit the anatomical shape of a femoral canal with increased bone deficiency and prevent potential cortical impingement and intraoperative shaft fracture



Anterior Bowing

# Resolve™ Modular Revision Stem

Modular stem delivers flexibility and stability in revision hip arthroplasty

Designed to address the challenges of revision total hip arthroplasty, such as severe bone defects, highly variable metaphyseal and diaphyseal bone loss, and complex anatomy, while supporting the establishment of a stable hip center.



## Proximal Component

Enables independent adjustments in anteversion, offset, and leg length to enhance flexibility in biomechanical restoration

Available in heights of 55, 65, 75, 85, and 95 mm



## Tapered with Splined Fins

- The tapered design enhances axial stability and minimizes stem subsidence, while eight splined fins provide rotational stability.

## Straight 140 mm and 180 mm Taper Stem

- Designed to achieve diaphyseal fixation

## Distal Slot Design

- Designed to reduce stem tip stiffness, improve compatibility with anterior femoral bowing, and reduce thigh pain

Three types of distal stems- Taper Stem, Clothespin Stem, and Interlocking Stem- designed to address varying degrees of bone defects and enhance distal fixation stability.

## Taper Stem

## Clothespin Stem

## Interlocking Stem

## Interlocking Screw Fixation

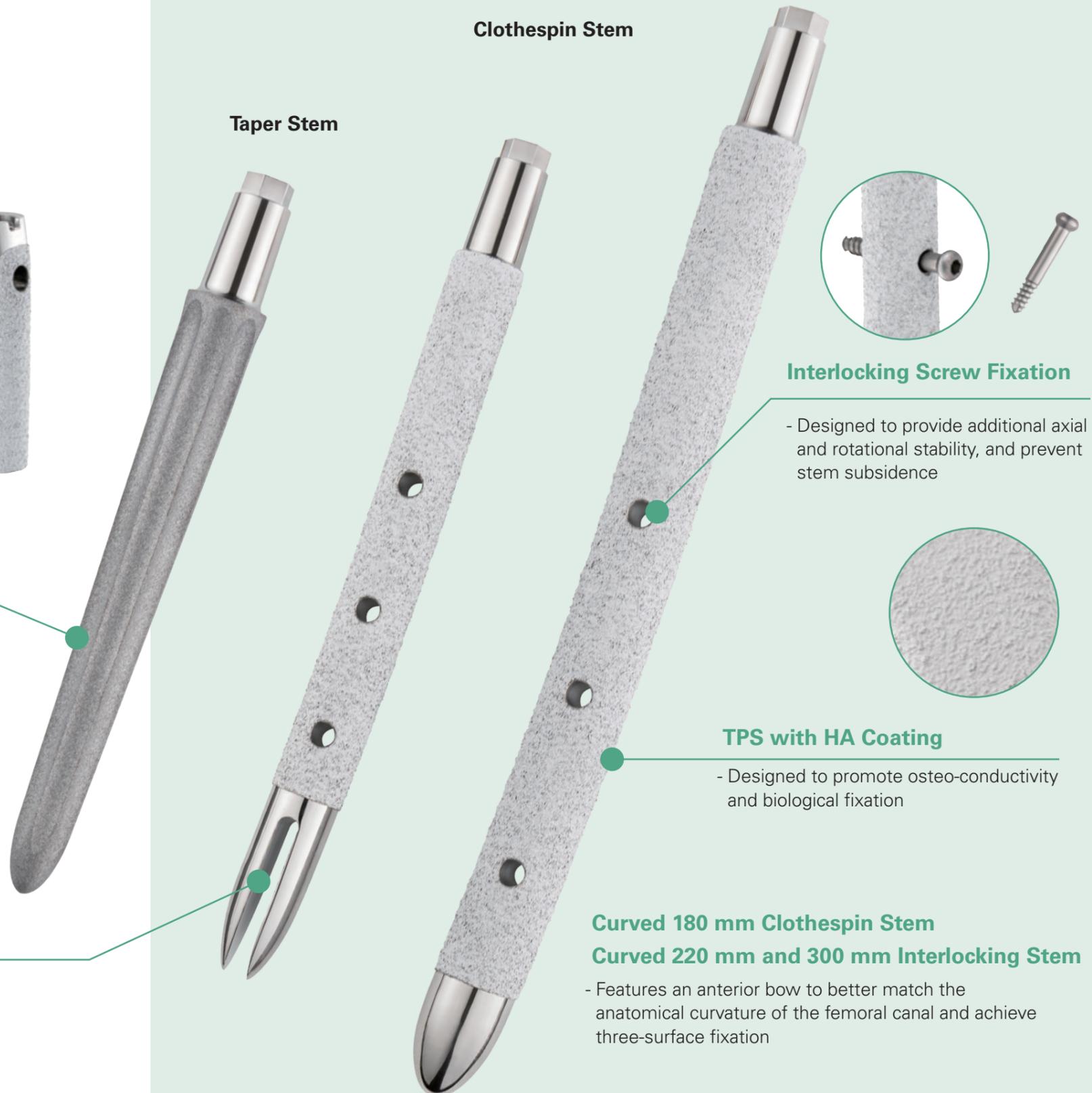
- Designed to provide additional axial and rotational stability, and prevent stem subsidence

## TPS with HA Coating

- Designed to promote osteo-conductivity and biological fixation

## Curved 180 mm Clothespin Stem Curved 220 mm and 300 mm Interlocking Stem

- Features an anterior bow to better match the anatomical curvature of the femoral canal and achieve three-surface fixation



# UCP™ Stem

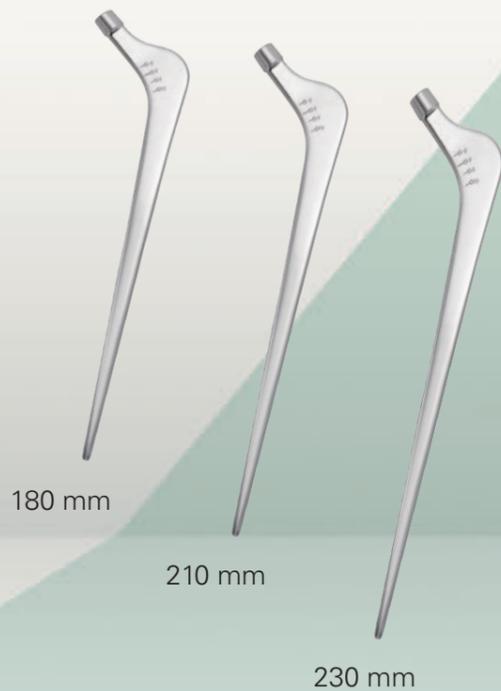
Cemented comprehensive femoral solution for hip arthroplasty

The polished surface is designed to allow minimal friction at the stem-cement interface and reduce the potential for cement failure.

## Adjustment Markers

- Assist the surgeon in adjusting insertion depth of the stem to help achieve optimal leg length

Standard stem ( 125 mm ) length for primary cases  
Long stem options in 180 mm, 210 mm, and 230 mm lengths for revision cases.



# GTF II™ Stem

The GTF II Stem is a cemented stem indicated for patients with femoral head, neck and intertrochanteric fractures and severe proximal bone loss.

## Multiple Sizing Options

- 2 stem lengths ( 130 mm and 160 mm )
- 2 stem diameters ( Ø9 mm and Ø11 mm )
- 2 resection levels ( 45 mm and 55 mm )

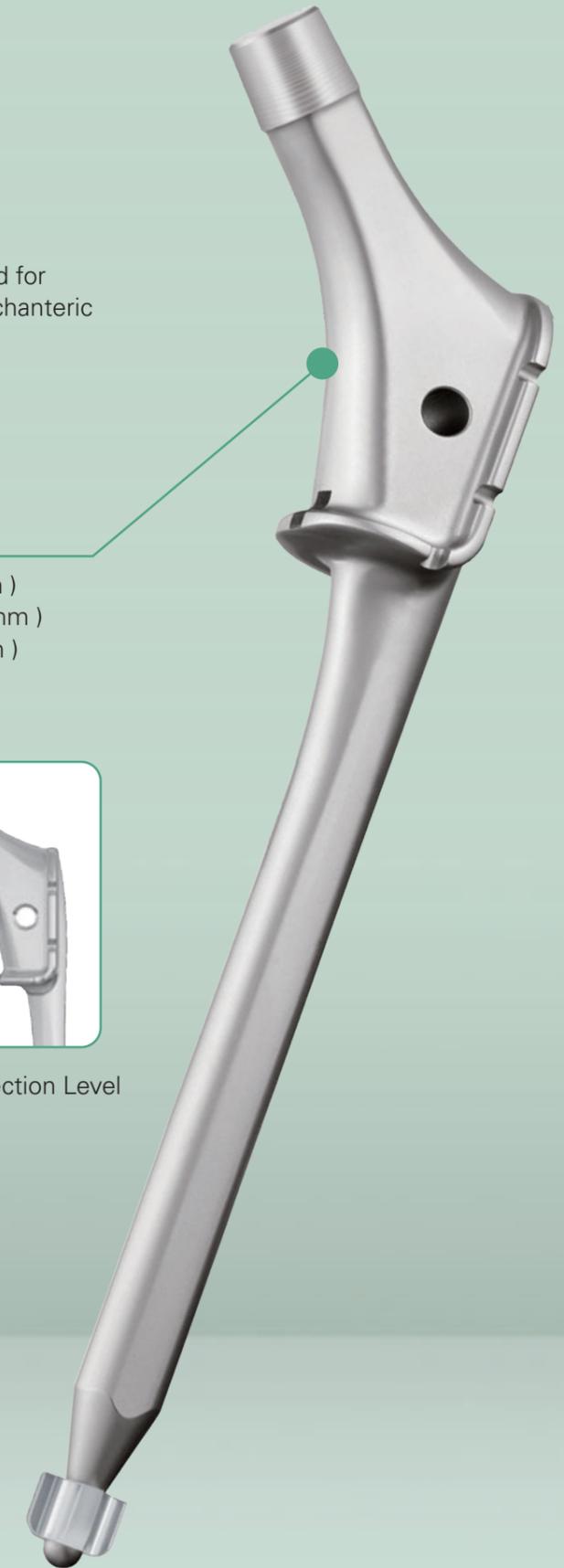
**Total 2 x 2 x 2 = 8 sizes**



45 mm Resection Level



55 mm Resection Level



# Locking Cage™

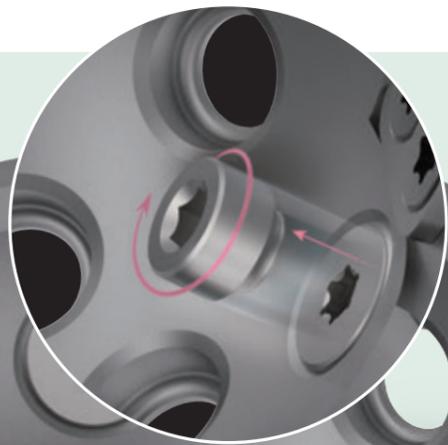
## Acetabular reconstruction system

The Locking Cage acetabular revision system is designed to allow reconstruction of the acetabulum in patients with severe bone loss and pelvic discontinuity.

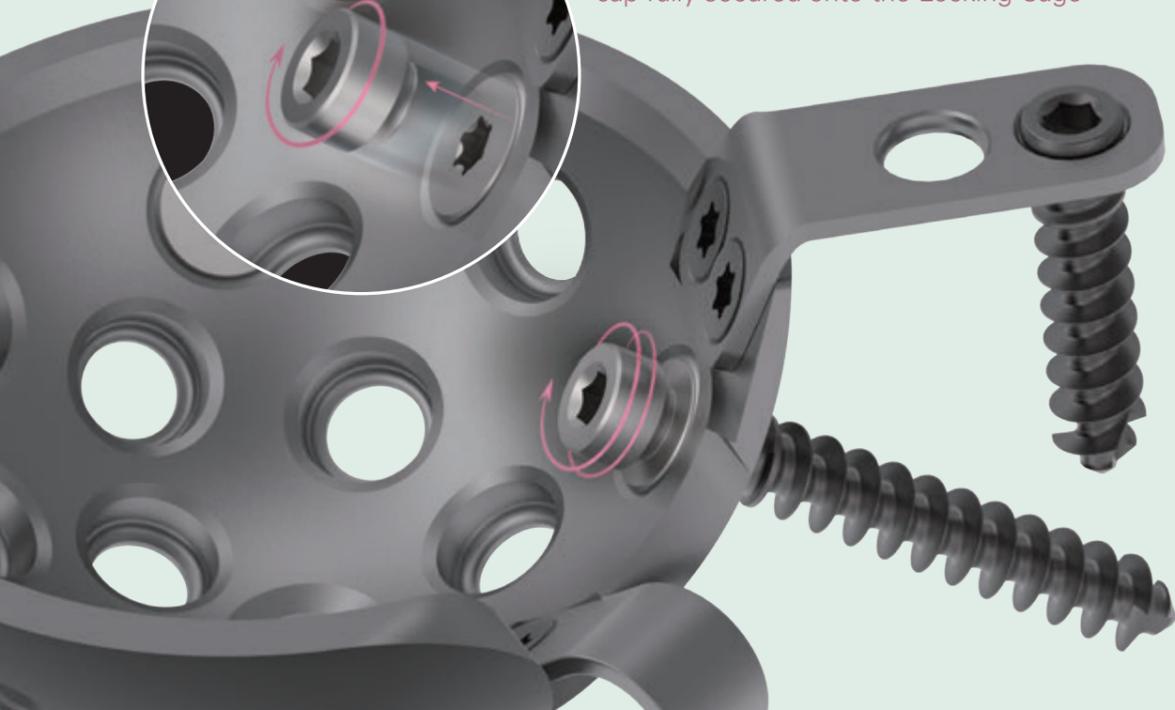


### Modular Hook and Ischial Flange

- Designed to provide additional support and stability



Break the neck of Locking Nut, and leave the cap fully secured onto the Locking Cage



### Locking Screw Design

The poly-axial bone screw is designed to provide flexibility selecting the optimal direction for screw insertion. In addition, the unique locking nut provides enhanced stability for the fixed structure by converting the compression screws into locking screws.



# BIOLOX® OPTION

More OPTIONS for revision surgery

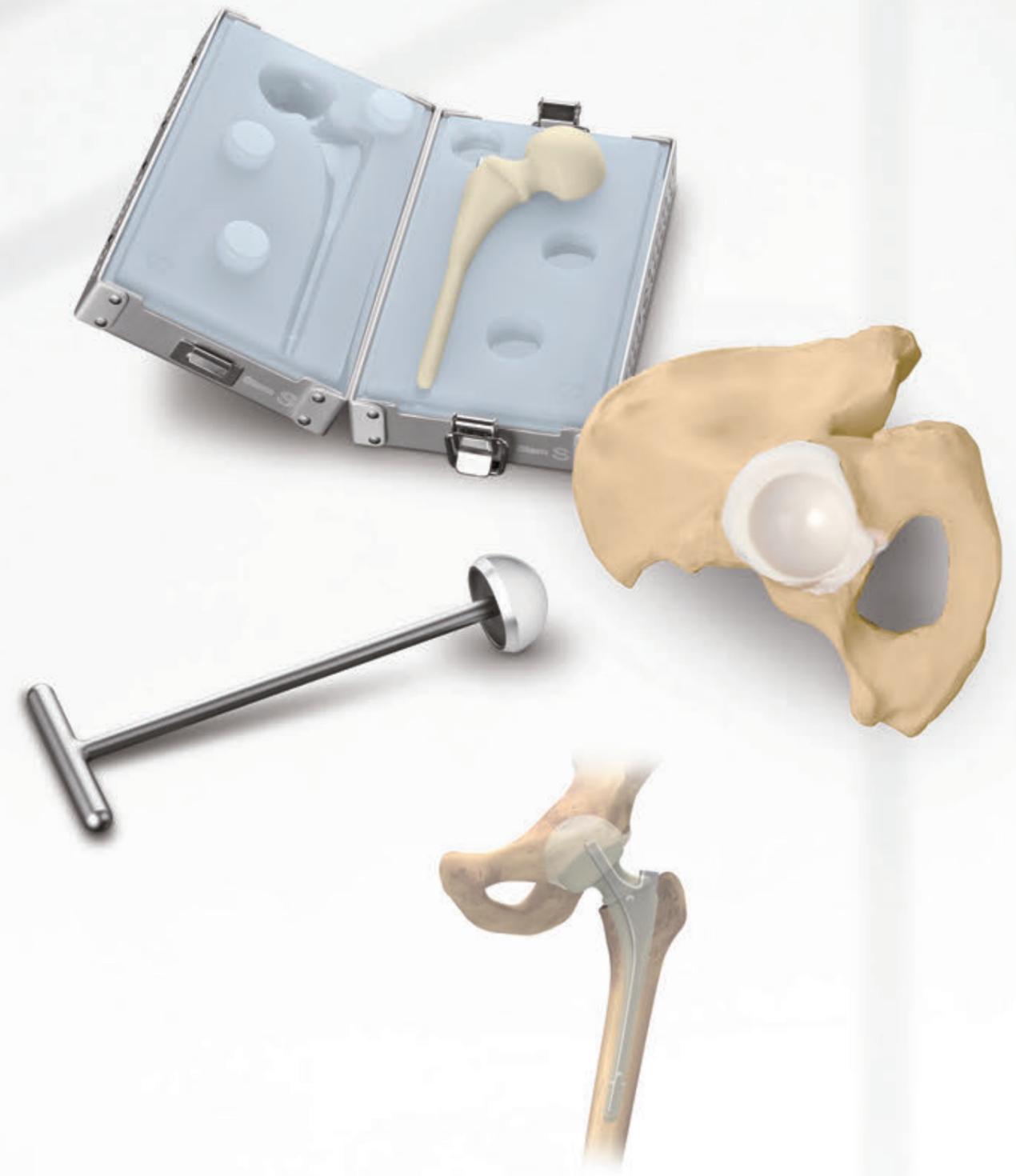
United Orthopedic BIOLOX® femoral heads and sleeves are designed specifically for use with United Orthopedic femoral stems.

Adaptor Sleeve for acetabular revision or femoral head exchange.

4 BIOLOX® *delta* head sizes are available:  
28, 32, 36, 40 mm



Titanium sleeves are available in 4 neck length:  
S: -2 mm M: +1 mm L: +5 mm XL: +8 mm



# Implant – Acetabular Component

## U-Motion II Cup System



No Hole



Cluster-Hole



Multi-Hole

Coating Surface : TPS / TPS with HA / TPS PLUS / TPS PLUS with HA

Sizes : 44 mm ~ 70 mm

## Liner



Standard

● XPE ● E-XPE



20° Lipped

● XPE ● E-XPE



BIOLOX® delta

Inner Diameter : 28 / 32 / 36 / 40 mm      28 / 32 / 36 / 40 mm      28 / 32 / 36 / 40 mm

## Femoral Head



CoCrMo Alloy



BIOLOX® delta

Sizes : 28 / 32 / 36 mm      28 / 32 / 36 / 40 mm

## Accessories



Cancellous Screw



Screw Hole Covers

15 ~ 50 mm

# Implant – Acetabular Component

## UDM System



Press-fit



Peg-fixed



Cemented

Coating Surface : TPS PLUS / TPS PLUS with HA      TPS PLUS / TPS PLUS with HA

Sizes : 42 mm ~ 68 mm      42 mm ~ 68 mm      42 mm ~ 64 mm

## Mobile Liner



● XPE ● E-XPE

Sizes : OD 42 mm ~ 68 mm      ID 22 / 28 mm

## Femoral Head



CoCrMo Alloy



BIOLOX® delta

Sizes : 22\* / 28 mm      28 mm

## Accessories



Cobalt-chrome Cortical Screw

25 ~ 65 mm

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

# Implant – Acetabular Component

## Full XPE Cup



**Full XPE Cup**

● XPE ● E-XPE



**CoCrMo Alloy**

Sizes : 42 mm ~ 62 mm

26 / 28 / 32 / 36 mm

## Bipolar II Cap



**Bipolar II Cap**

● XPE ● E-XPE



**CoCrMo Alloy**



**BIOLOX® delta**

Sizes : 38 mm ~ 60 mm

22\* / 26 / 28 mm

22\* / 28 mm

## BIOLOX® OPTION



**BIOLOX® delta**



**Neck Sleeve**

Sizes : 28 / 32 / 36 / 40 mm

S / M / L / XL

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

# Implant – Acetabular Component

## Locking Cage



**Cage**



**Hook**



**Ischial Flange**



**Screw**



**Locking Nut**

Sizes : 50 mm ~ 70 mm

S / M / L / XL / XXL

Single size

15 mm ~ 75 mm

Single size

## RepliCase Hip



**Cement Spacer Mold**



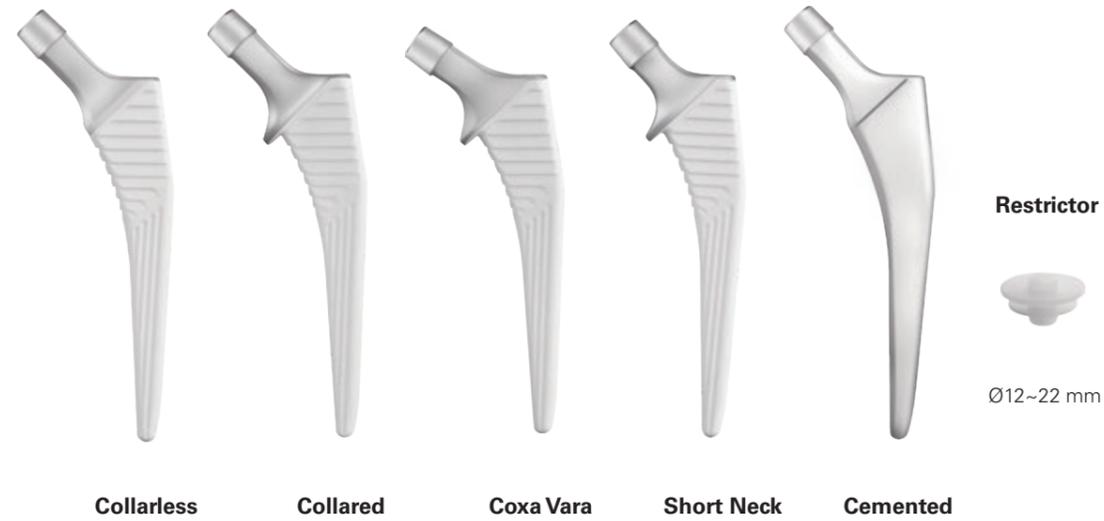
**Reinforcement Rod**

Sizes : S / M / L

Single size

# Implant – Femoral Stem

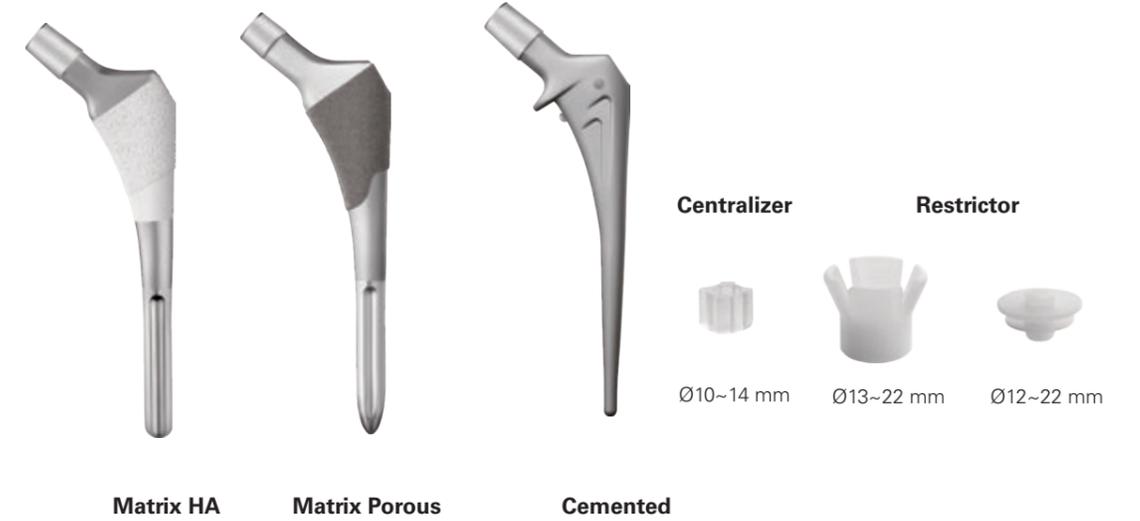
## Conformity Stem



Standard Offset : # 0 ~ # 11	# 0 ~ # 11	# 0 ~ # 7	# 0 ~ # 7	# 1 ~ # 10
High Offset : # 1 ~ # 11	# 1 ~ # 11	# 2 ~ # 11		# 1 ~ # 10

# Implant – Femoral Stem

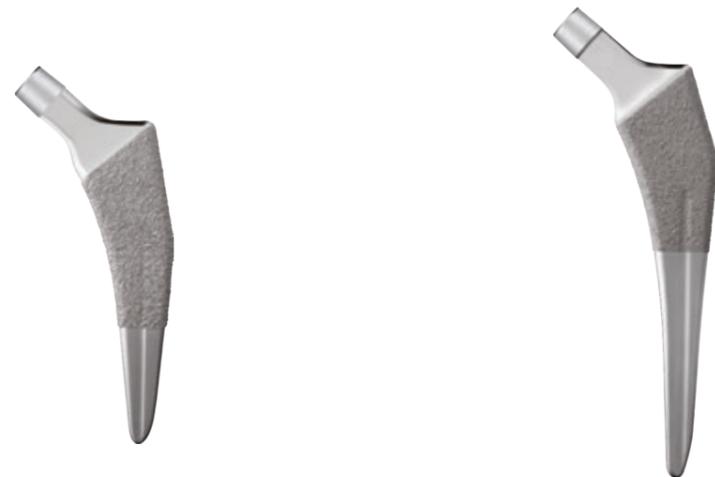
## U2 Hip Stem



Proximal Size :	# 0 ~ # 7	# 1 ~ # 7	# 2 ~ # 6
Distal Diameter :	8 ~ 15 mm	9 ~ 15 mm	

## UTS Stem

## UTF Reduced Stem



Standard Offset :	# 00 ~ # 14	# 00 ~ # 14
High Offset :	# 1 ~ # 14	# 0 ~ # 14

# Implant – Femoral Stem

## U2 Revision Stem



Straight : 180 mm / Ø11 ~ 18 mm    Curved : 230 mm / Ø11 ~ 18 mm ( Left, Right )

# Implant – Femoral Stem

## UCP Stem



**Centralizer**

**Restrictor**



Ø8~18 mm

Ø12~22 mm

Stem Length 110 mm : # 0    Long stem 180 mm : # 2 ~ # 3  
 Stem Length 125 mm : # 1 ~ # 5    Long stem 210 mm : # 3  
 Standard Offset : # 0 ~ # 5    Long stem 230 mm : # 3  
 High Offset : # 0 ~ # 5

## GTF II Stem



**Centralizer**

**Restrictor**



Ø10~14 mm

Ø13~22 mm

Resection Level : 45, 55 mm  
 Distal Diameter : 9, 11 mm  
 Length : 130, 160 mm

## Resolve Modular Revision Stem



**Proximal Screw**

Single size

**Interlocking Screw**

25 ~ 75 mm

**Proximal Component**

**Taper Stem**

**Clothespin Stem**

**Interlocking Stem**

Standard Offset / High Offset:  
 55, 65, 75, 85, 95 mm  
 Ø19, 21, 23, 25 mm

Straight:  
 140 mm    180 mm  
 Ø11 ~ 28 mm    Ø12 ~ 28 mm

Curved:  
 180 mm  
 Ø12 ~ 26 mm

Curved:  
 220, 300 mm  
 Ø15 ~ 26 mm

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