

# UDM™

Mobile Bearing Hip System



### *UDM –*

The United Dual Mobility (UDM) Acetabular System is applied in a primary or revision total hip arthroplasty for acetabulum reconstruction. Based on two classic concepts, Sir Charnley's low friction principle and the anti-dislocation theory by using larger femoral head diameter, the UDM Acetabular System provides greater range of motion and superior jumping distance to reduce the risks of component impingement and joint dislocation. The cobalt-chrome alloy is utilized for a proven metallic articulating component with outstanding mechanical strength and wear performance.

Various implant types are provided for fulfilling individual demand:

- Press-fit UDM Cup
- Peg-fixed UDM Cup
- Cemented UDM Cup

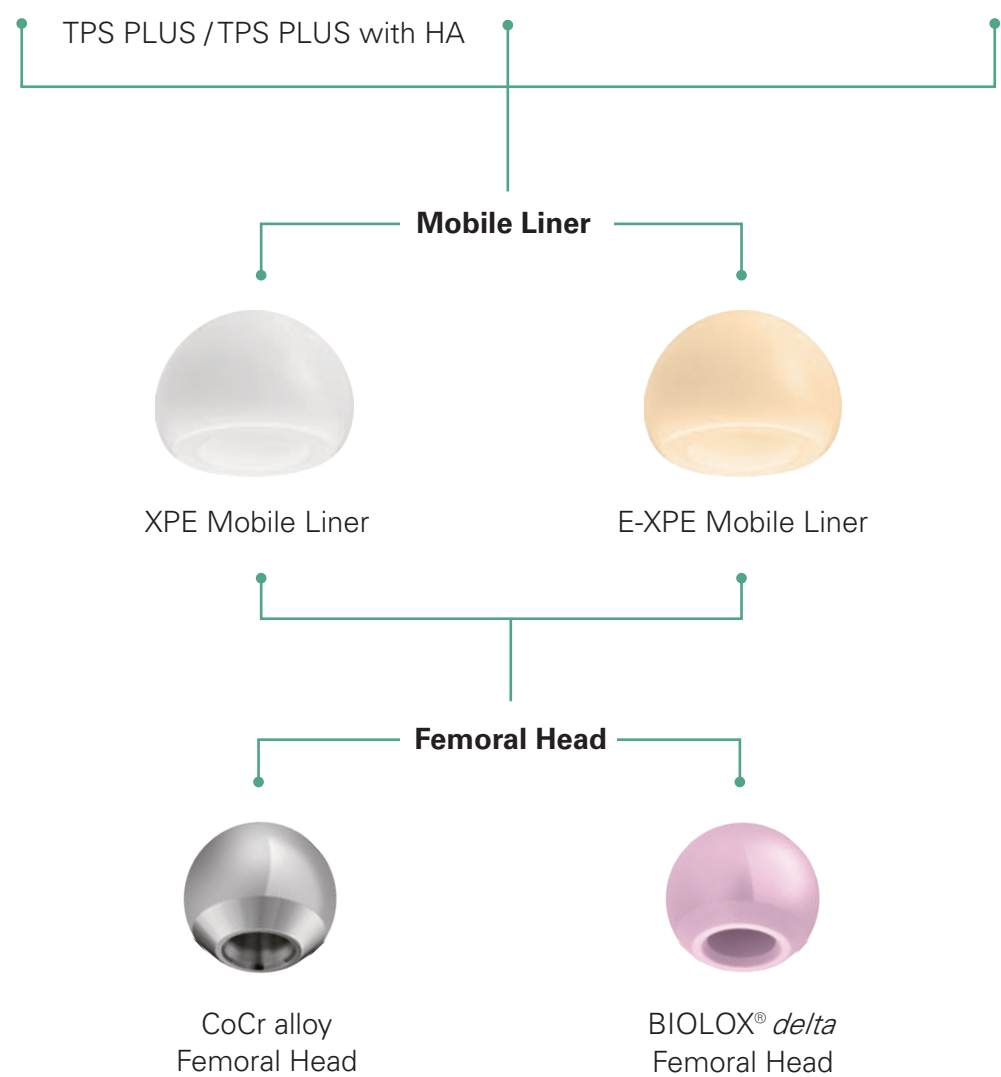
Mobile liner materials:

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



# Overview

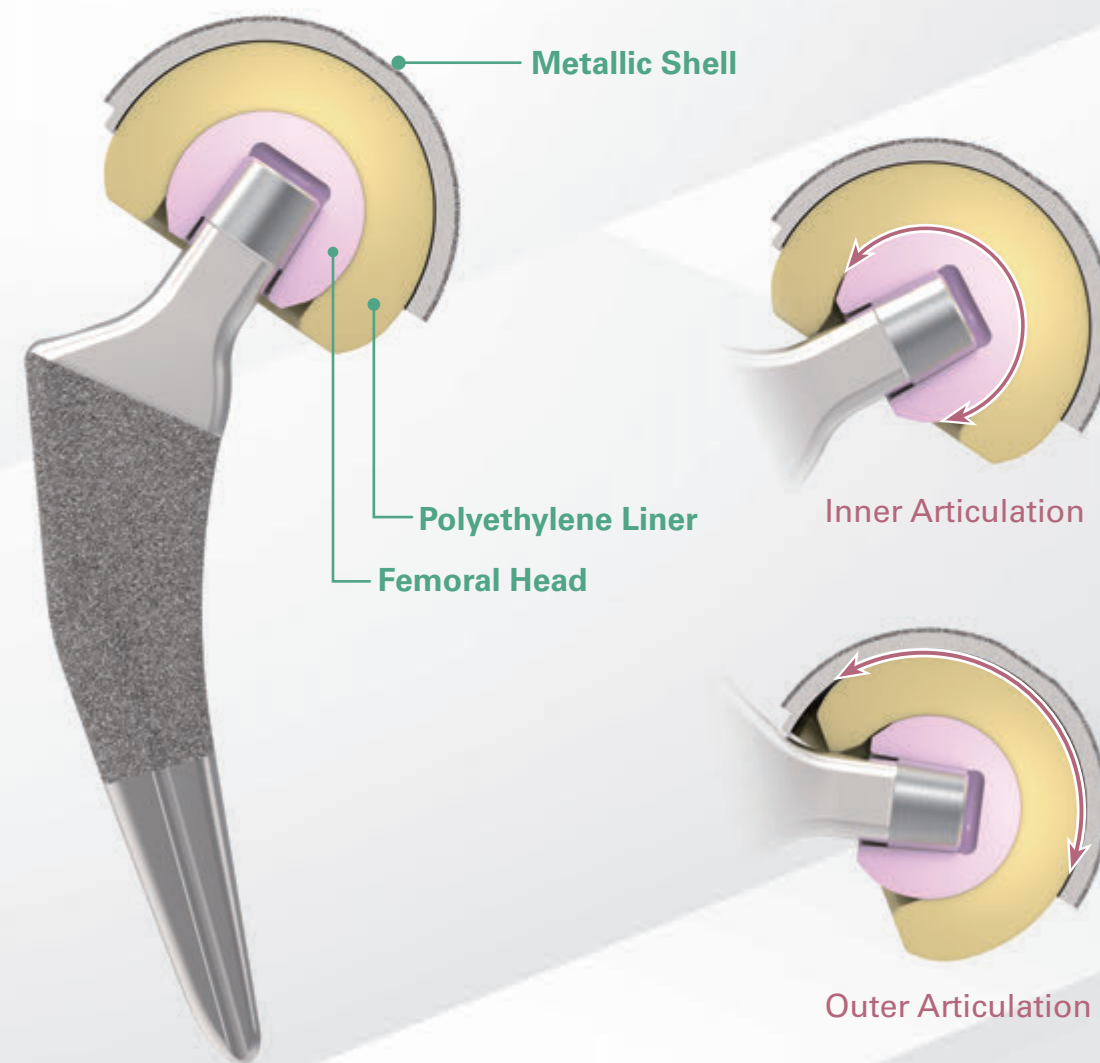
## Dual Mobility Acetabular Cup



# Mobile bearing hip solution for demanding situations

Targeting an optimal combination in hip joint mobility and stability, the UDM Cup System provides ideal solutions through the use of large mobile liners which maximize the jumping distance to aid in the prevention of joint dislocation, and which helps to increase the full range of motion for functional high-demand patients.

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

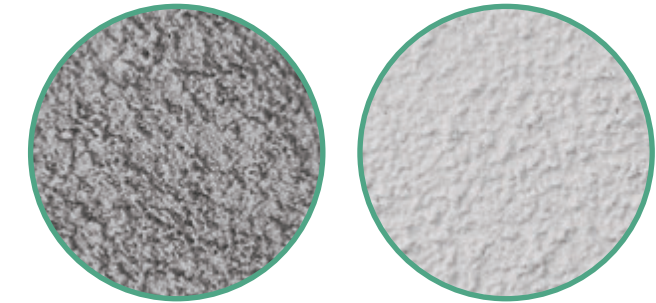
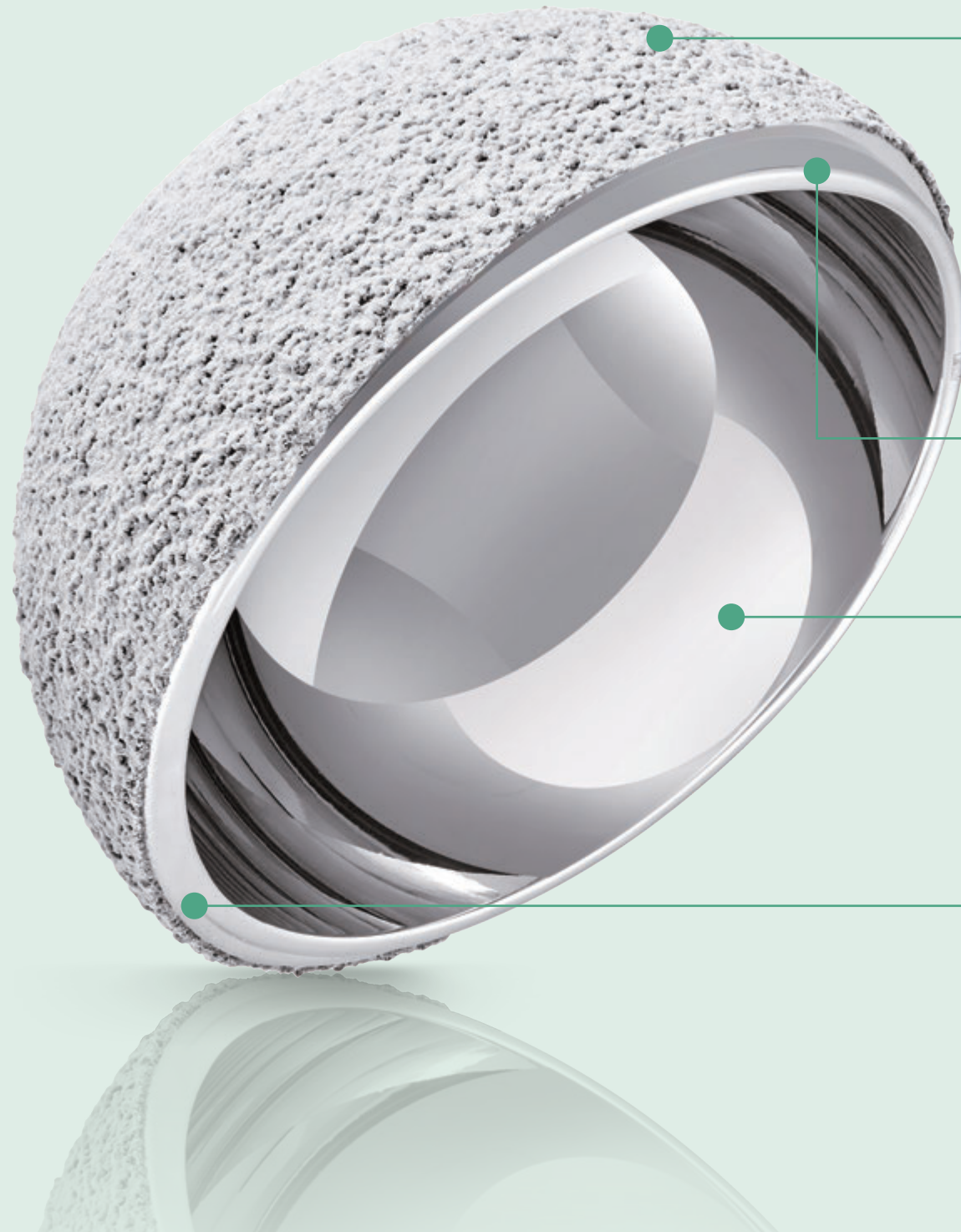


Note: The compatibility of UDM cup and mobile liner are restricted in certain area, please contact with your United representative or local distributor for further information.



# Press-fit UDM Cup

The cobalt-chrome alloy offers sufficient mechanical strength and polished finish to prosthetic articulation for all cups in the UDM system. The Press-fit UDM Cup is suitable for patients with adequate bone quality, relying on geometrical interference (press-fit) and a roughened surface (Titanium Plasma Spray) to aid in long-term biological fixation.



## Titanium Plasma Spray PLUS (TPS PLUS) with/without Hydroxyapatite (HA) Coating

- Designed to improve biological fixation



## Polished Extension Edge at Posterosuperior Region

- Increases jumping distance and reduces soft tissue irritation

## Polished Surface

- Allows optimal articulation between the cup and mobile liner

## Reduced Edge at Anteromedial Region

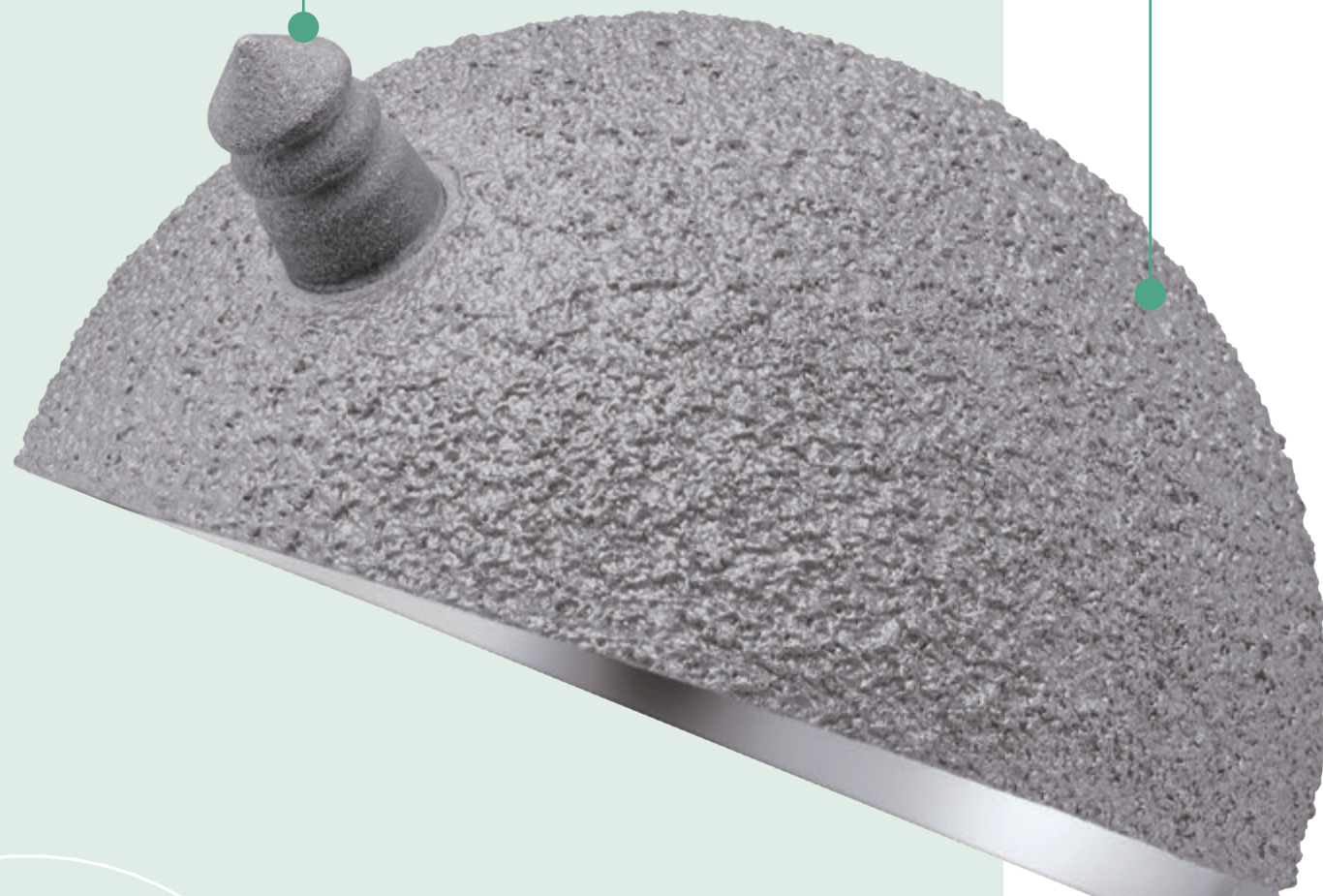
- Designed to prevent irritation to the iliopsoas muscle

# Peg-fixed UDM Cup

For patients suffering from minor bone loss in a revision surgery, the supplementary pegs and screw are provided in the Peg-fixed UDM Cup solution for enhancing the anti-rotation performance to acquire extra stability.

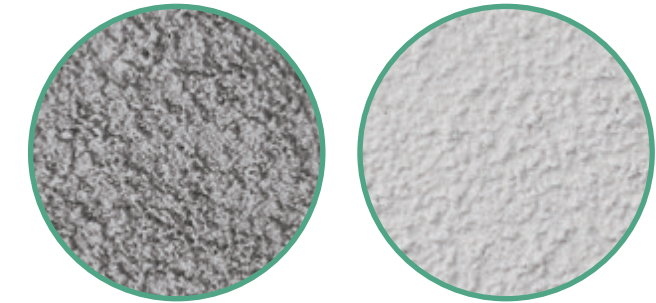
## Anchoring Peg Design (CoCr alloy)

- Designed to enhance stability for patients experiencing poor bone quality



## Titanium Plasma Spray PLUS (TPS PLUS) with/without Hydroxyapatite (HA) Coating

- Designed to improve biological fixation



## Bendable Flange

- Designed to allow extra screw fixation for superior stability

## Cobalt-chrome Cortical Screw

- Ø4.5 x 25 ~ 65 mm



Pre-bend 30°



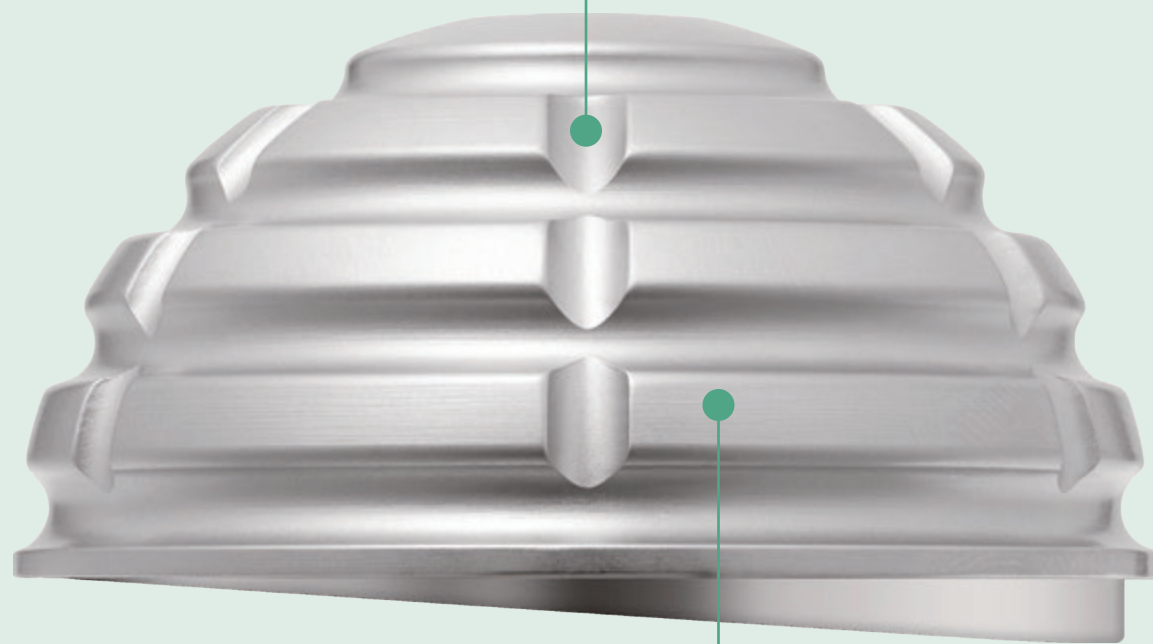


# Cemented UDM Cup

For patients with severe osteopenia, irradiated acetabulum, and metabolic bone disease, the Cemented UDM Cup is designed to offer a strong solution in motion preservation with long-term implant stability.

## Horizontal and Vertical Grooves

- Designed for optimal cement-implant fixation



## Matte Surface

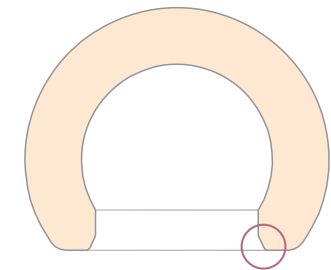
- Avoids intraoperative reflected glare & provides initial stability against cement mantle

# Mobile Liner

The large diameter of the mobile articulation component is designed to reduce potential for dislocation by affording a greater range of motion compared to conventional fixed-bearing acetabulum prostheses.

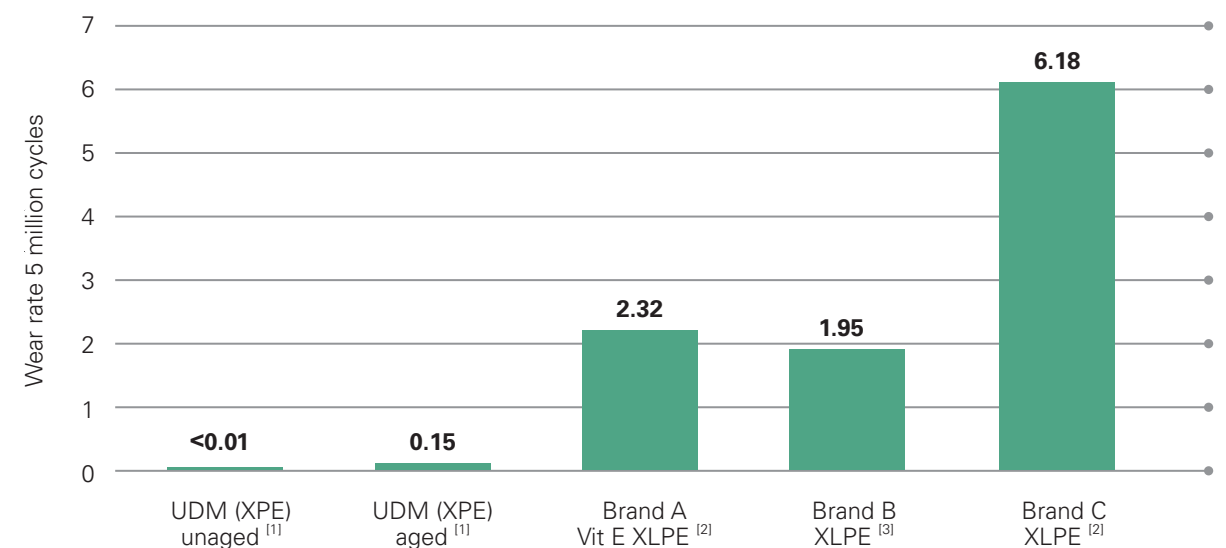
## Optimized Chamfer

- Minimizes stress concentration & potential wear



## Proven Wear Resistance for Greater Durability

- Excellent wear rate reduces risk of osteolysis

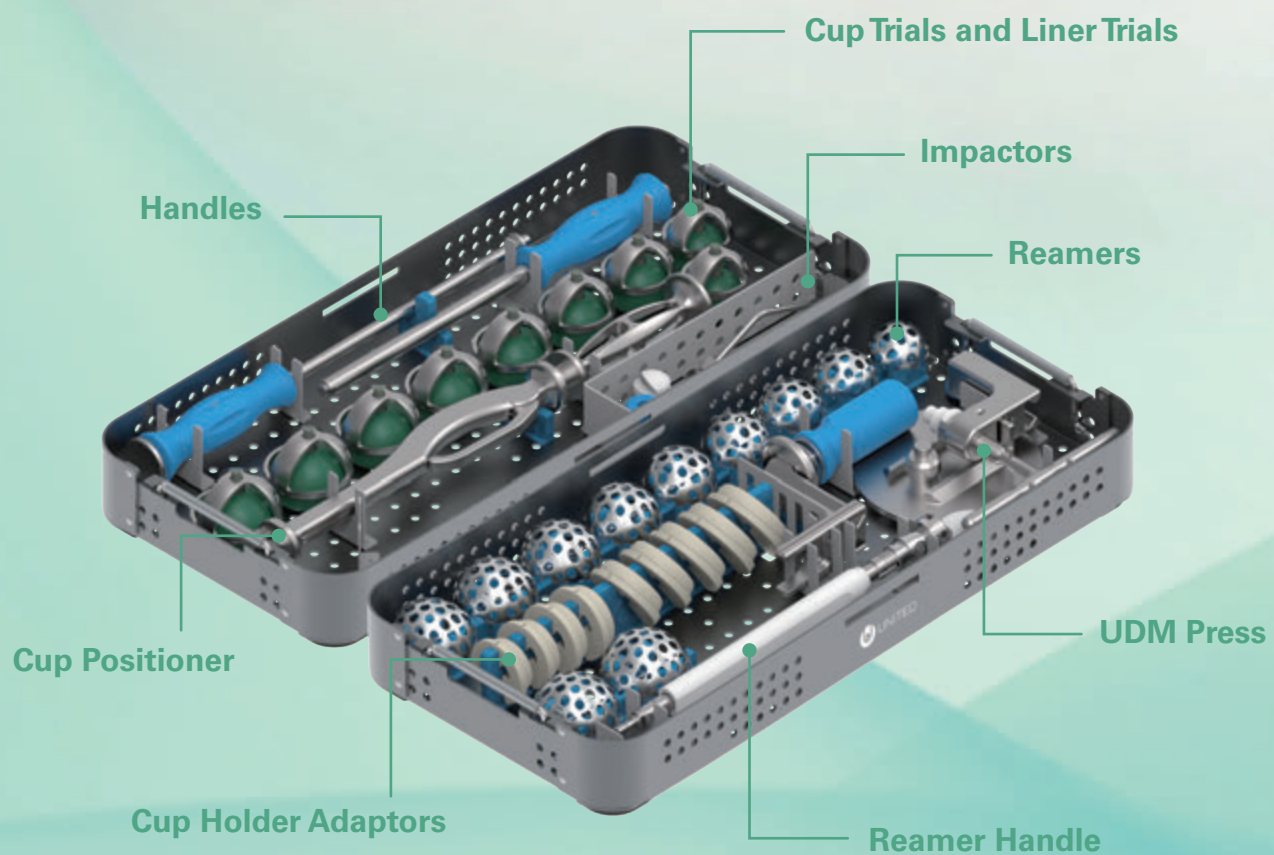


# Intuitively Instruments with Efficiency

## The efficient tray facilitates cost and time savings



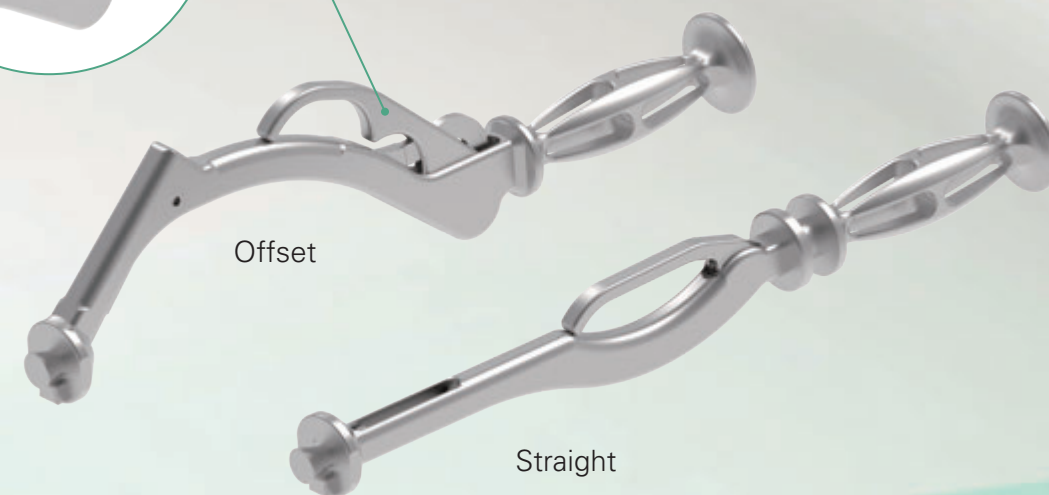
The UDM Cup Instruments combines the surgical process with efficient instruments that enable surgeons precisely control the cup position for each patient. Two basic trays and three additional trays holding all instruments to accommodate the Press-fit and Cemented UDM Cup. This set configuration could be streamlined by using our essential option.



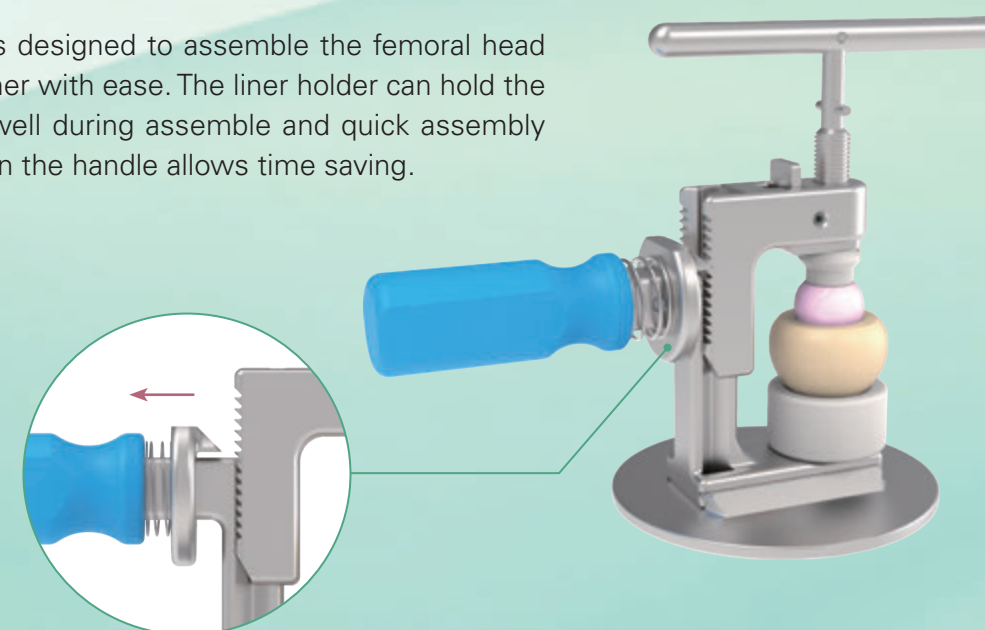
## Instruments are designed for performance



Two options of Cup Positioners enable different surgical approaches for surgeon's needs. The quick release lever allows to hold the implant stable and position implant well during surgery.









UDM Press is designed to assemble the femoral head into mobile liner with ease. The liner holder can hold the mobile liner well during assemble and quick assembly mechanism on the handle allows time saving.





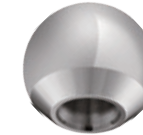

Special Order Items

# Order Information

	Catalog Number	Description
<b>Press-fit UDM Cup</b>		
<b>TPS PLUS</b>	<b>TPS PLUS with HA</b>	
		
	1307 - 1242	OD 42 mm
	1307 - 1244	OD 44 mm
	1307 - 1246	OD 46 mm
	1307 - 1248	OD 48 mm
	1307 - 1250	OD 50 mm
	1307 - 1252	OD 52 mm
	1307 - 1254	OD 54 mm
	1307 - 1256	OD 56 mm
	1307 - 1258	OD 58 mm
	1307 - 1260	OD 60 mm
	1307 - 1262	OD 62 mm
	1307 - 1264	OD 64 mm
	1307 - 1266	OD 66 mm
	1307 - 1268	OD 68 mm
<b>Peg-fixed UDM Cup</b>		
<b>TPS PLUS</b>	<b>TPS PLUS with HA</b>	
		
	1307 - 5242	OD 42 mm
	1307 - 5244	OD 44 mm
	1307 - 5246	OD 46 mm
	1307 - 5248	OD 48 mm
	1307 - 5250	OD 50 mm
	1307 - 5252	OD 52 mm
	1307 - 5254	OD 54 mm
	1307 - 5256	OD 56 mm
	1307 - 5258	OD 58 mm
	1307 - 5260	OD 60 mm
	1307 - 5262	OD 62 mm
	1307 - 5264	OD 64 mm
	1307 - 5266	OD 66 mm
	1307 - 5268	OD 68 mm
<b>Cemented UDM Cup</b>		
		
	1307 - 3042	OD 42 mm
	1307 - 3044	OD 44 mm
	1307 - 3046	OD 46 mm
	1307 - 3048	OD 48 mm
	1307 - 3050	OD 50 mm
	1307 - 3052	OD 52 mm
	1307 - 3054	OD 54 mm
	1307 - 3056	OD 56 mm
	1307 - 3058	OD 58 mm
	1307 - 3060	OD 60 mm
	1307 - 3062	OD 62 mm
	1307 - 3064	OD 64 mm
<b>Cobalt-chrome Cortical Screw</b>		
		
	5107 - 1025	Ø4.5 × 25 mm
	5107 - 1030	Ø4.5 × 30 mm
	5107 - 1035	Ø4.5 × 35 mm
	5107 - 1040	Ø4.5 × 40 mm
	5107 - 1045	Ø4.5 × 45 mm
	5107 - 1050	Ø4.5 × 50 mm
	5107 - 1055	Ø4.5 × 55 mm
	5107 - 1060	Ø4.5 × 60 mm
	5107 - 1065	Ø4.5 × 65 mm

Special Order Items

# Order Information

	Catalog Number	Description
<b>Mobile Liner</b>		
<b>XPE</b>	<b>E-XPE</b>	
		
	1207 - 1442	OD 42 mm, ID 22 mm
	1207 - 1444	OD 44 mm, ID 22 mm
	1207 - 1446	OD 46 mm, ID 22 mm
	1207 - 1448	OD 48 mm, ID 22 mm
	1207 - 1450	OD 50 mm, ID 22 mm
	1207 - 1452	OD 52 mm, ID 22 mm
	1207 - 1454	OD 54 mm, ID 22 mm
	1207 - 1456	OD 56 mm, ID 22 mm
	1207 - 1458	OD 58 mm, ID 22 mm
	1207 - 1460	OD 60 mm, ID 22 mm
	1207 - 1462	OD 62 mm, ID 22 mm
	1207 - 1464	OD 64~68 mm, ID 22 mm
	1207 - 1646	OD 46 mm, ID 28 mm
	1207 - 1648	OD 48 mm, ID 28 mm
	1207 - 1650	OD 50 mm, ID 28 mm
	1207 - 1652	OD 52 mm, ID 28 mm
	1207 - 1654	OD 54 mm, ID 28 mm
	1207 - 1656	OD 56 mm, ID 28 mm
	1207 - 1658	OD 58 mm, ID 28 mm
	1207 - 1660	OD 60 mm, ID 28 mm
	1207 - 1662	OD 62 mm, ID 28 mm
	1207 - 1664	OD 64~68 mm, ID 28 mm
<b>U2 Femoral Head</b>		
		
	1206 - 1122	* Ø22 mm, +0 mm
	1206 - 1322	* Ø22 mm, +3 mm
	1206 - 1522	* Ø22 mm, +6 mm
	1206 - 1722	* Ø22 mm, +9 mm
	1206 - 1028	Ø28 mm, -3 mm
	1206 - 1128	Ø28 mm, +0 mm
	1206 - 1228	Ø28 mm, +2.5 mm
	1206 - 1428	Ø28 mm, +5 mm
	1206 - 1628	Ø28 mm, +7.5 mm
	1206 - 1828	Ø28 mm, +10 mm
<b>BILOX® delta Femoral Head</b>		
		
	1203 - 5028	Ø28 mm, S -2.5 mm
	1203 - 5228	Ø28 mm, M +1 mm
	1203 - 5428	Ø28 mm, L +4 mm

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

\*BILOX® is a registered trademark of the CeramTec Group, Germany.

## Reference

[1] Data held on file. United Orthopedic Corporation

[2] Biomet Active Articulation Design Rationale

[3] Smith & Nephew Polarcup Dual mobility system Product information



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