

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 DM 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 cup
- Peg-fixed cup
- Cemented cup

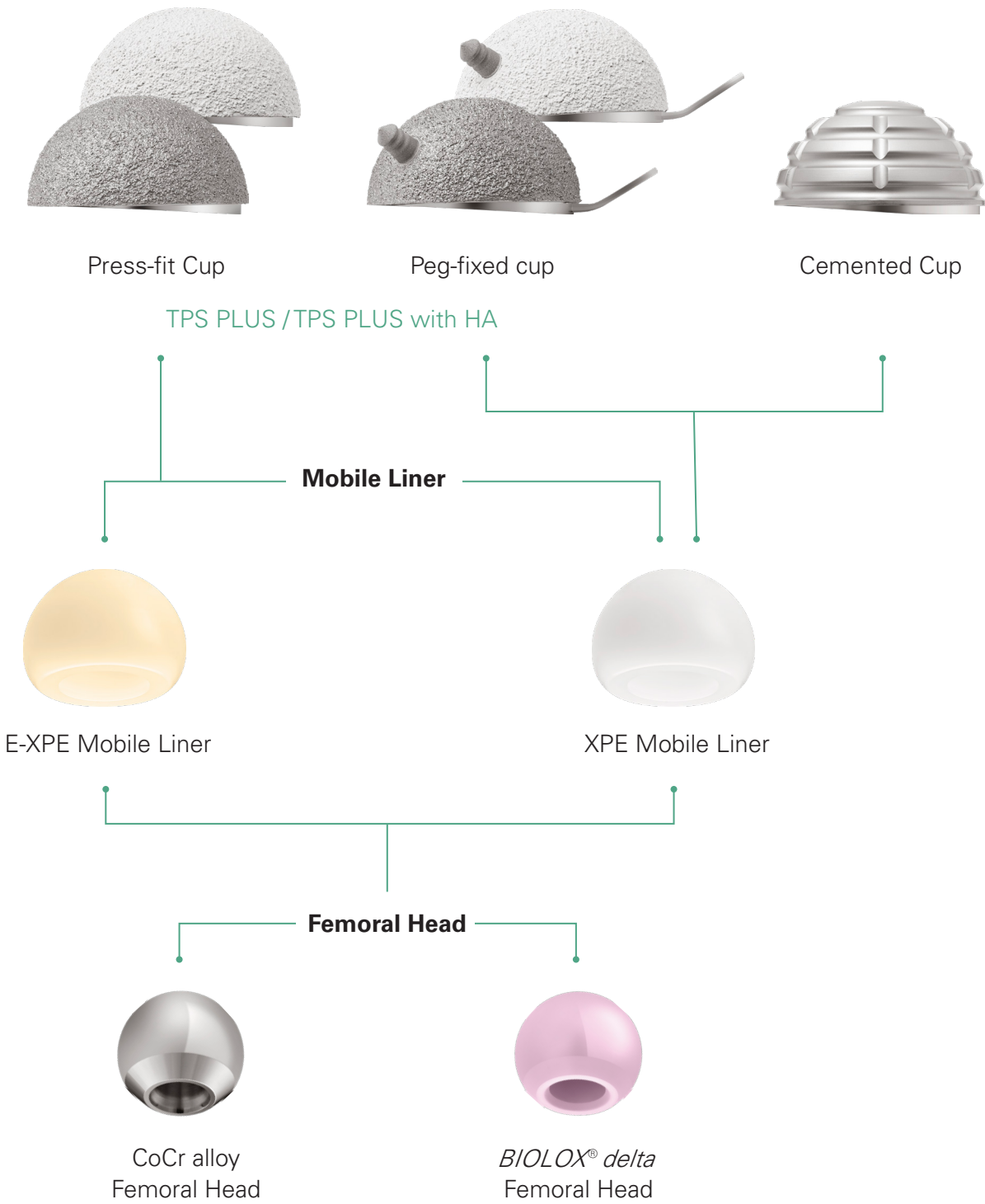
Mobile liner materials:

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



Overview

Dual Mobility Acetabular Cup



Quick Compatibility Guide



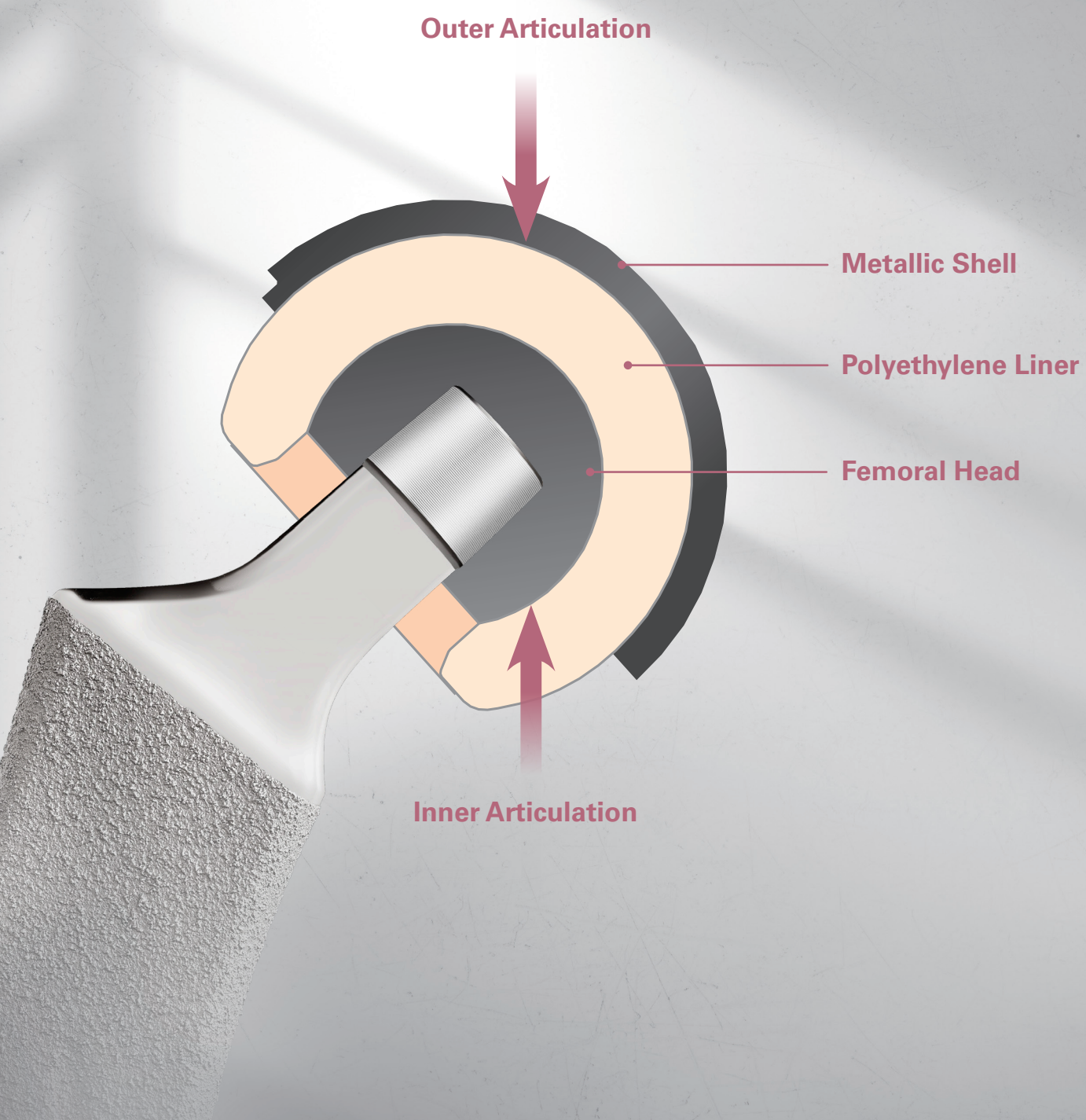
Cup Size (OD, mm)	Liner Size (OD, mm)	Head Size (mm)	
42	36	22	28
44	38		
46	40		
48	42		
50	44		
52	46		
54	48		
56	50		
58	52		
60	54		
62	56		
64	58		
66	58		
68	58		

* The actual spherical diameter of a 22 mm metal head is 22.2 mm
*22.2 mm for CoCr alloy femoral head only

Mobile bearing hip solution for demanding situations

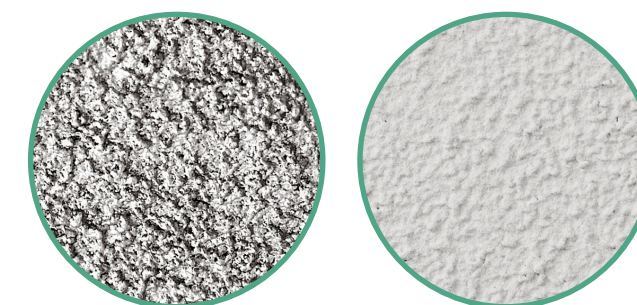
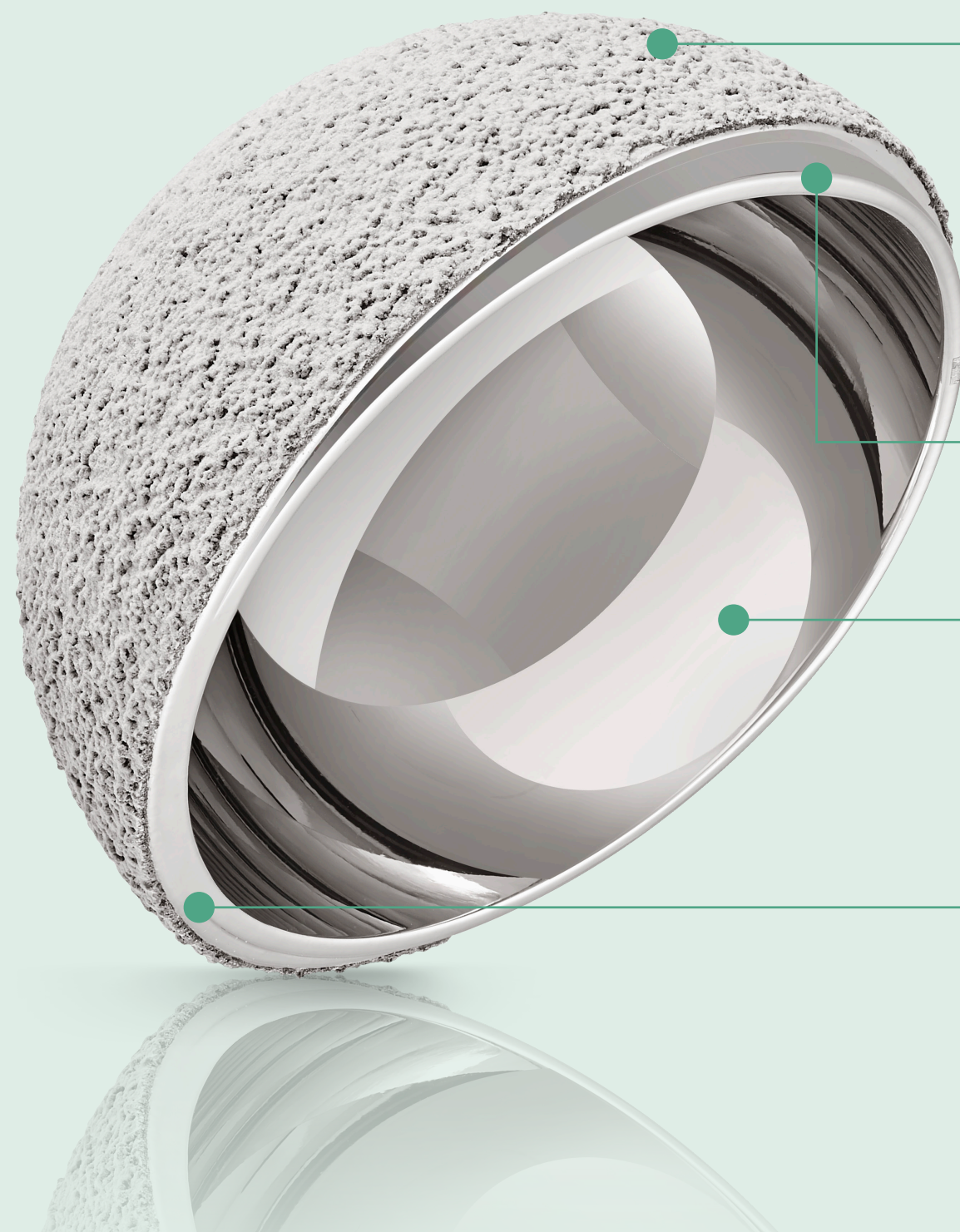
Targeting an optimal combination in hip joint mobility and stability, the UDM Cup System provides ideal solutions through the use of large mobile liners which maximize the jumping distance to aid in the prevention of joint dislocation, and which helps to increase the full range of motion for functional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

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



Press-fit 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 cup is suitable for patients with adequate bone quality, relying on geometrical interference (press-fit) and a roughened surface (Titanium Plasma Spray) to aide 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 help prevent irritation to the iliopsoas muscle

Peg-fixed Cup

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

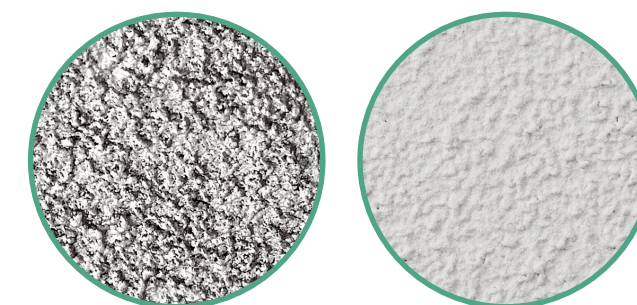
Anchoring Peg Design (CoCr alloy)

- Designed to help enhance stability for patients experiencing poor bone quality



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

- Designed to help improve biological fixation



Bendable Flange

- Designed to allow extra screw fixation for superior stability

Cobalt-chrome Cortical Screw

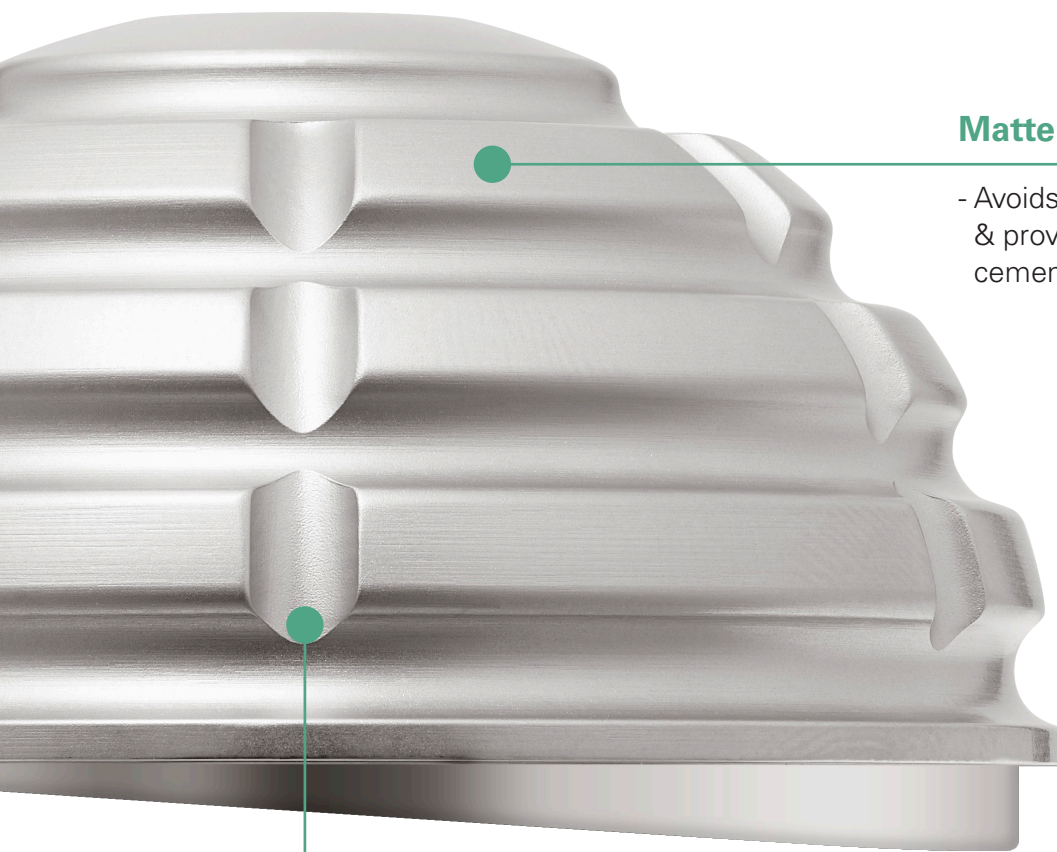
- Ø4.5 x 25 ~ 65 mm

Pre-bend 30°



Cemented Cup

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



Matte Surface

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

Horizontal and Vertical Grooves

- Designed for optimal cement-implant fixation

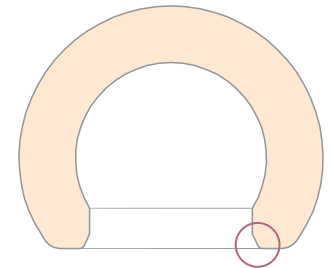
Mobile Liner

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



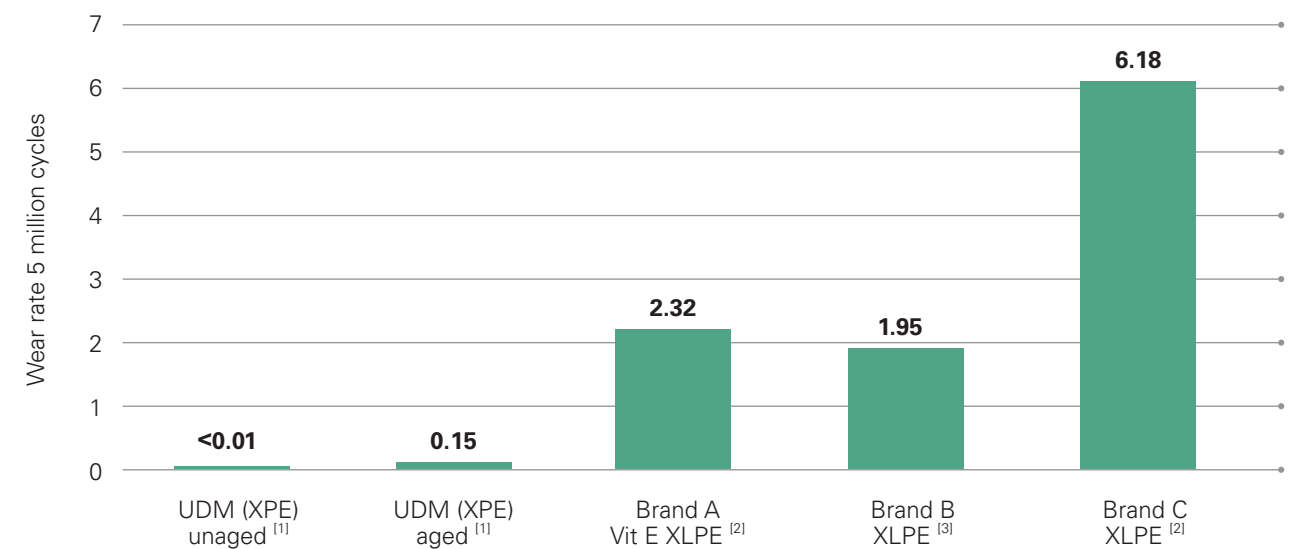
Optimized Chamfer

- Minimizes stress concentration & potential wear



Proven Wear Resistance for Greater Durability

- Excellent wear rate reduces risk of osteolysis



Order Information

Catalog Number		Description
Press-fit cup		
TPS PLUS		
		
TPS PLUS with HA		
		
1307 - 1242	1307 - 1042	OD 42 mm
1307 - 1244	1307 - 1044	OD 44 mm
1307 - 1246	1307 - 1046	OD 46 mm
1307 - 1248	1307 - 1048	OD 48 mm
1307 - 1250	1307 - 1050	OD 50 mm
1307 - 1252	1307 - 1052	OD 52 mm
1307 - 1254	1307 - 1054	OD 54 mm
1307 - 1256	1307 - 1056	OD 56 mm
1307 - 1258	1307 - 1058	OD 58 mm
1307 - 1260	1307 - 1060	OD 60 mm
1307 - 1262	1307 - 1062	OD 62 mm
1307 - 1264	1307 - 1064	OD 64 mm
1307 - 1266	1307 - 1066	OD 66 mm
1307 - 1268	1307 - 1068	OD 68 mm
Peg-fixed Cup		
TPS PLUS		
		
TPS PLUS with HA		
		
1307 - 5242	1307 - 5042	OD 42 mm
1307 - 5244	1307 - 5044	OD 44 mm
1307 - 5246	1307 - 5046	OD 46 mm
1307 - 5248	1307 - 5048	OD 48 mm
1307 - 5250	1307 - 5050	OD 50 mm
1307 - 5252	1307 - 5052	OD 52 mm
1307 - 5254	1307 - 5054	OD 54 mm
1307 - 5256	1307 - 5056	OD 56 mm
1307 - 5258	1307 - 5058	OD 58 mm
1307 - 5260	1307 - 5060	OD 60 mm
1307 - 5262	1307 - 5062	OD 62 mm
1307 - 5264	1307 - 5064	OD 64 mm
1307 - 5266	1307 - 5066	OD 66 mm
1307 - 5268	1307 - 5068	OD 68 mm
Cemented Cup		
		
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
Cobalt-chrome Cortical Screw		
		
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

Order Information

Catalog Number		Description
Mobile Liner		
XPE		
		
E-XPE		
		
1207 - 1442	1207 - 3442	OD 42 mm, ID 22 mm
1207 - 1444	1207 - 3444	OD 44 mm, ID 22 mm
1207 - 1446	1207 - 3446	OD 46 mm, ID 22 mm
1207 - 1448	1207 - 3448	OD 48 mm, ID 22 mm
1207 - 1450	1207 - 3450	OD 50 mm, ID 22 mm
1207 - 1452	1207 - 3452	OD 52 mm, ID 22 mm
1207 - 1454	1207 - 3454	OD 54 mm, ID 22 mm
1207 - 1456	1207 - 3456	OD 56 mm, ID 22 mm
1207 - 1458	1207 - 3458	OD 58 mm, ID 22 mm
1207 - 1460	1207 - 3460	OD 60 mm, ID 22 mm
1207 - 1462	1207 - 3462	OD 62 mm, ID 22 mm
1207 - 1464	1207 - 3464	OD 64~68 mm, ID 22 mm
1207 - 1646	1207 - 3646	OD 46 mm, ID 28 mm
1207 - 1648	1207 - 3648	OD 48 mm, ID 28 mm
1207 - 1650	1207 - 3650	OD 50 mm, ID 28 mm
1207 - 1652	1207 - 3652	OD 52 mm, ID 28 mm
1207 - 1654	1207 - 3654	OD 54 mm, ID 28 mm
1207 - 1656	1207 - 3656	OD 56 mm, ID 28 mm
1207 - 1658	1207 - 3658	OD 58 mm, ID 28 mm
1207 - 1660	1207 - 3660	OD 60 mm, ID 28 mm
1207 - 1662	1207 - 3662	OD 62 mm, ID 28 mm
1207 - 1664	1207 - 3664	OD 64~68 mm, ID 28 mm
U2 Femoral Head		
		
1206 - 1122		* Ø22 mm, +0 mm
1206 - 1322		* Ø22 mm, +3 mm
1206 - 1522		* Ø22 mm, +6 mm
1206 - 1722		* Ø22 mm, +9 mm
1201 - 1028		Ø28 mm, -3 mm
1201 - 1128		Ø28 mm, +0 mm
1201 - 1228		Ø28 mm, +2.5 mm
1201 - 1428		Ø28 mm, +5 mm
1201 - 1628		Ø28 mm, +7.5 mm
1201 - 1828		Ø28 mm, +10 mm
BIOLOX® delta Femoral Head		
		
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.
*BIOLOX® is a registered trademark of the CeramTec Group, Germany

Reference

[1] Data hedl on file. United Orthopedic Corporation
[2] Biomet Active Articulation Design Rationale
[3] Smith & Nephew Polarcup Dual mobility system Product information

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