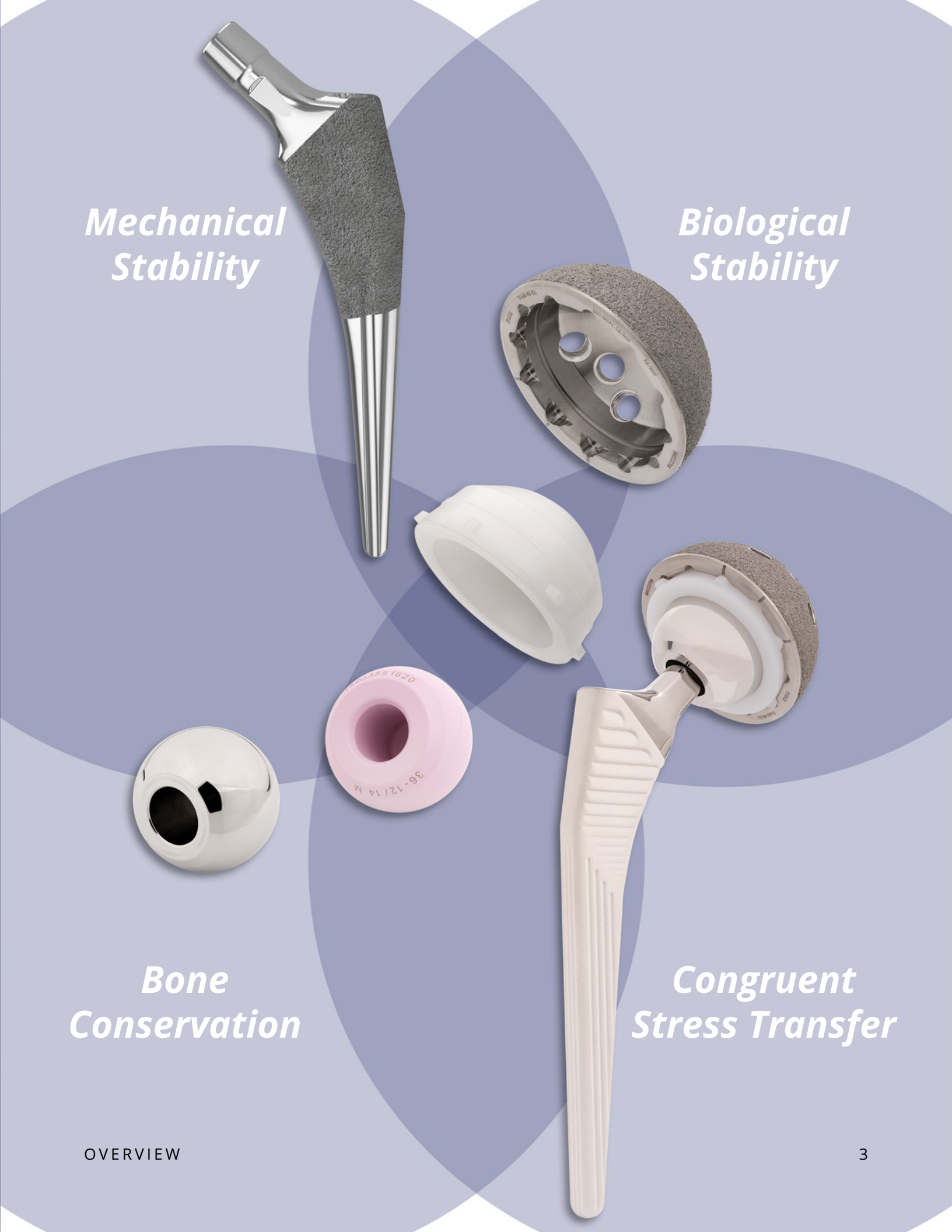

LIBERTAS®
HIP
maxx
maxx
orthopedics

INTRODUCTION TO THE LIBERTAS® HIP SYSTEM

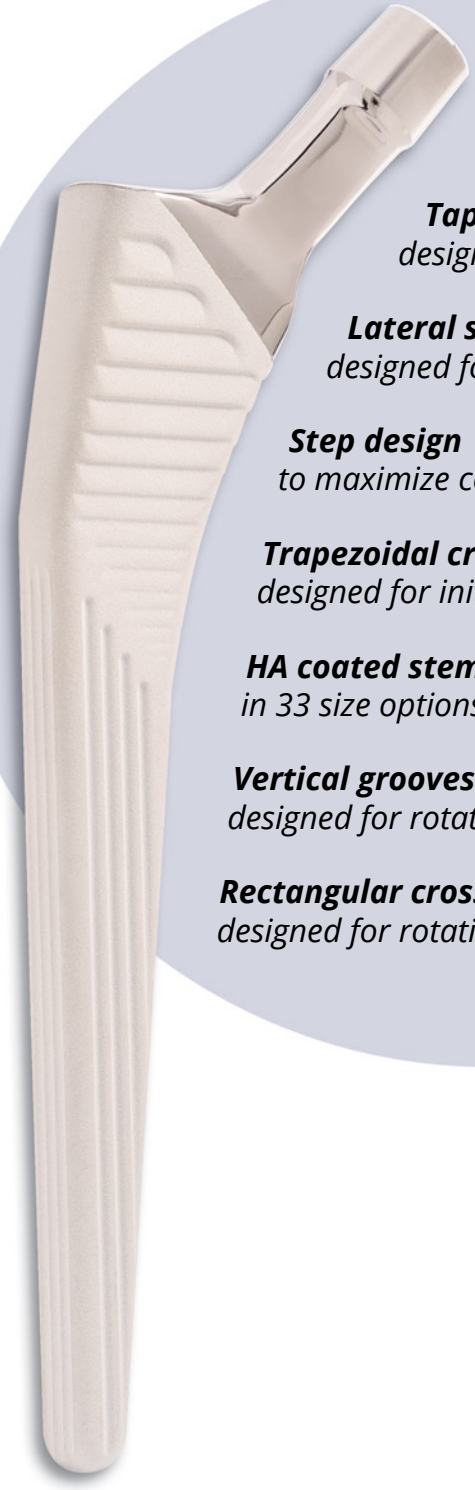
- **Comprehensive range of implants for restoring hip biomechanics**
- **Facilitates congruent transfer of loads**
- **Designed for mechanical and biological stability**

The Libertas® Total Hip System offers a comprehensive range of modular implants that facilitates stable restoration of hip biomechanics across a varied range of patient demographics. The implants are designed to provide immediate mechanical stability while preserving bone. Longer term stability is aided by the advanced coatings on the implant surfaces which are designed for biological integration of the bone. The overall design geometry of the implants facilitates a congruent transfer of the weight load and restoring the range of motion.

The system comprises of both cemented and uncemented femoral stems, cementless acetabular cups designed to be used with highly crosslinked polyethylene modular liners and a choice of either Biolox® or Cobalt Chrome head options in multiple head diameters and offset options. The variety of component and size options enable surgeons to provide patients with the best hip arthroplasty solutions without compromise.


Mechanical Stability
Biological Stability
Bone Conservation
Congruent Stress Transfer

LIBERTAS HA UNCEMENTED STEM



3 Offset Options
to facilitate restoration of hip biomechanics

Tapered neck
designed to increase range of motion

Lateral shoulder
designed for ease of insertion

Step design
to maximize compression loading in cancellous bone

Trapezoidal cross section
designed for initial stability

HA coated stems
in 33 size options

Vertical grooves
designed for rotational and axial stability

Rectangular cross section
designed for rotational stability

MATERIAL SPECIFICATIONS

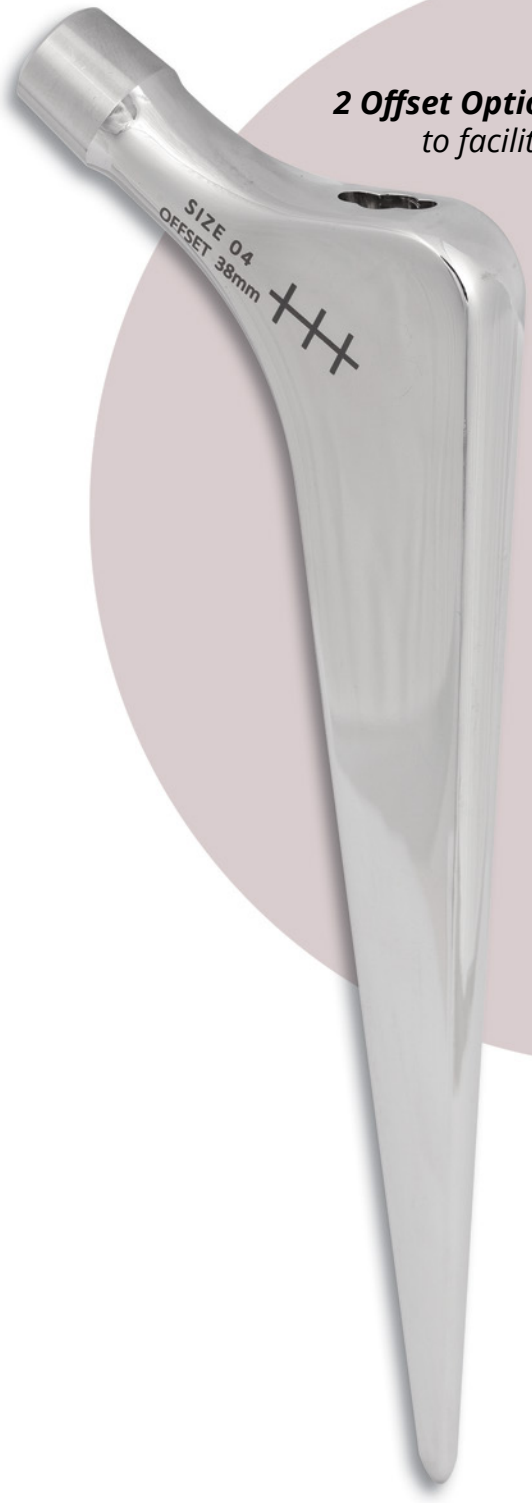
STEM

- Titanium Alloy (Ti6Al4V– ELI) with Osprovit® Hydroxyapatite coating applied as a plasma spray

OSPROVIT ® COATING DETAILS

- Surface roughness: Rt > 30 µm
- Coating thickness: 150 ± 40 µm
- Coating adhesion strength: ≥ 15 Mpa
- Crystallinity: ≥ 60%

CEMENTED STEM



2 Offset Options
to facilitate restoration of hip biomechanics

Polished, double tapered design

Stainless steel stems
in 9 size options

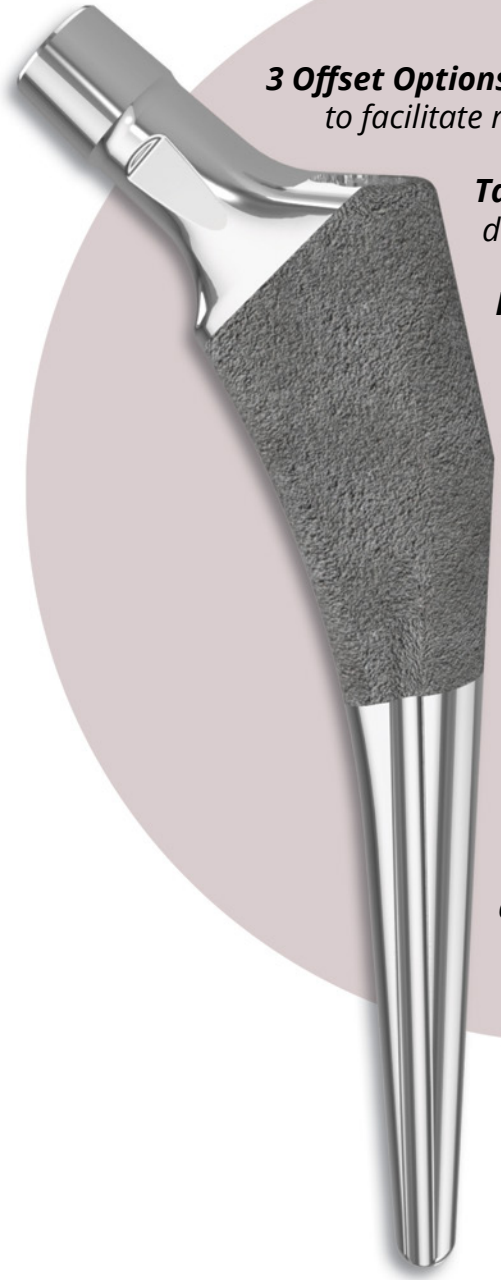
Winged and non winged centralizer options

MATERIAL SPECIFICATIONS

STEM

- High Nitrogen Stainless Steel conforming to ISO 5832-9:2007

TAPER REDUCED STEM



3 Offset Options
to facilitate restoration of hip biomechanics

Tapered neck
designed to increase range of motion

Highly polished neck
designed to minimize soft tissue damage & liner wear

Lateral shoulder
designed for ease of insertion

Ti-GrowthC®* coating
designed for initial stability

Comprehensive sizes
with 18 sizes in each offset option

Distal reduction
designed for better fit in proximal / distal mismatch

Vertical grooves
designed for rotational and axial stability

MATERIAL SPECIFICATIONS

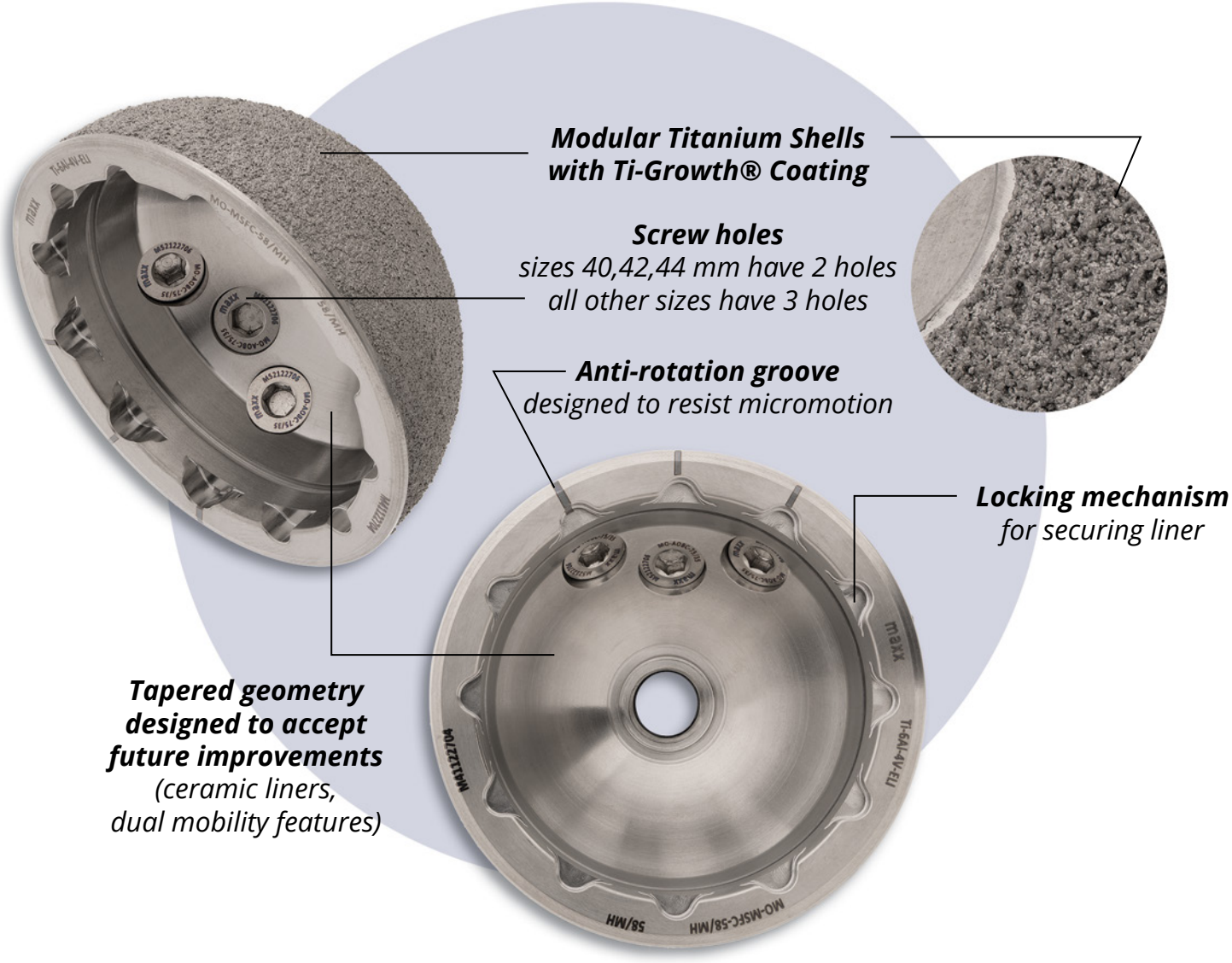
STEM

- Titanium Alloy (Ti6Al4V – ELI) with Ti-GrowthC® coating applied as a plasma spray

Ti-GROWTHC® COATING DETAILS

- Surface roughness: Rt 300 - 600 µm
- Coating thickness: 500 ± 127 µm
- Coating adhesion strength: > 20 Mpa
- Porosity 30 – 70%

ACETABULAR SHELL



MATERIAL SPECIFICATIONS

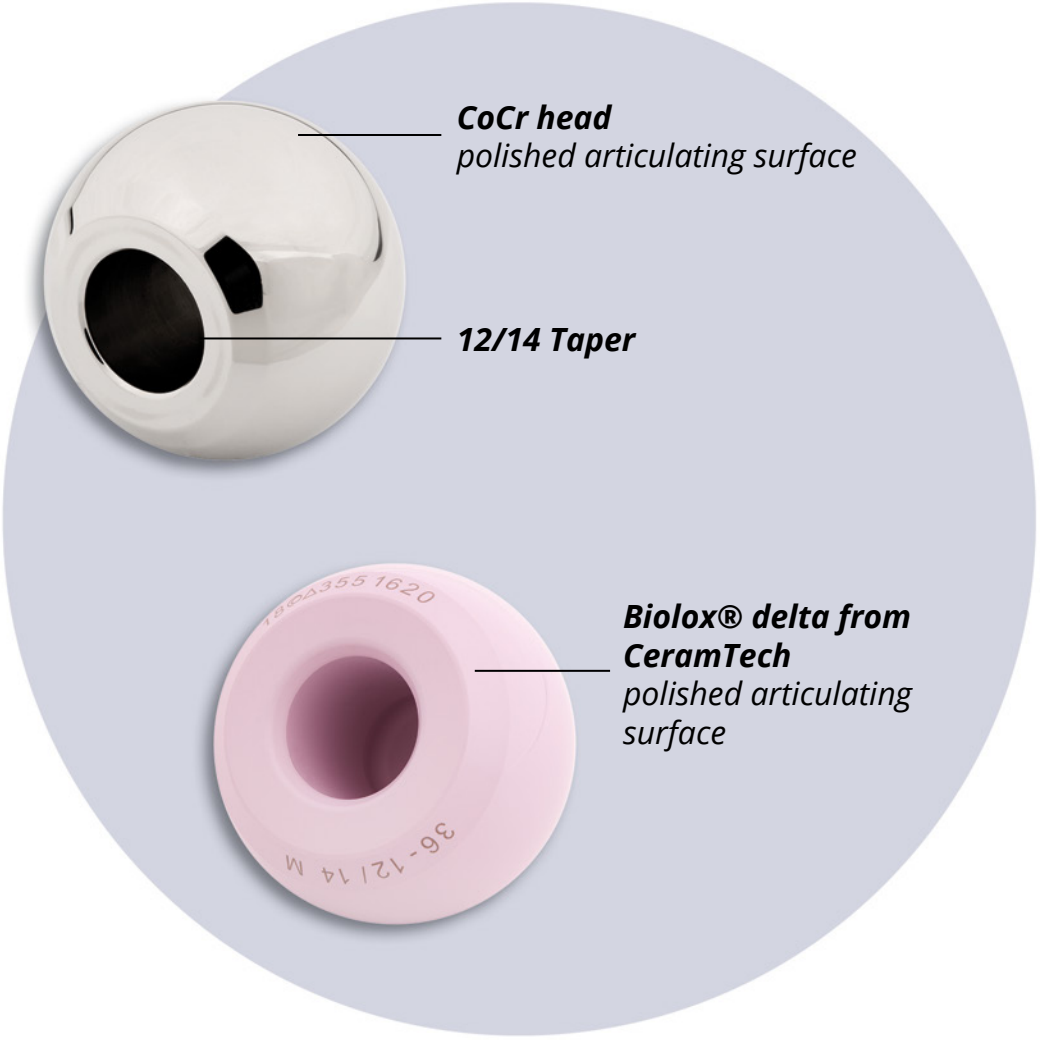
SHELL

- Titanium Alloy (Ti6Al4V-ELI) with Ti-Growth® Titanium plasma spray coating

Ti-GROWTH® COATING DETAILS

- Surface roughness: Rt 300– 600 µm
- Coating thickness: 500 ± 100 µm
- Coating adhesion strength: ≥ 20 Mpa

HEADS



MATERIAL SPECIFICATIONS

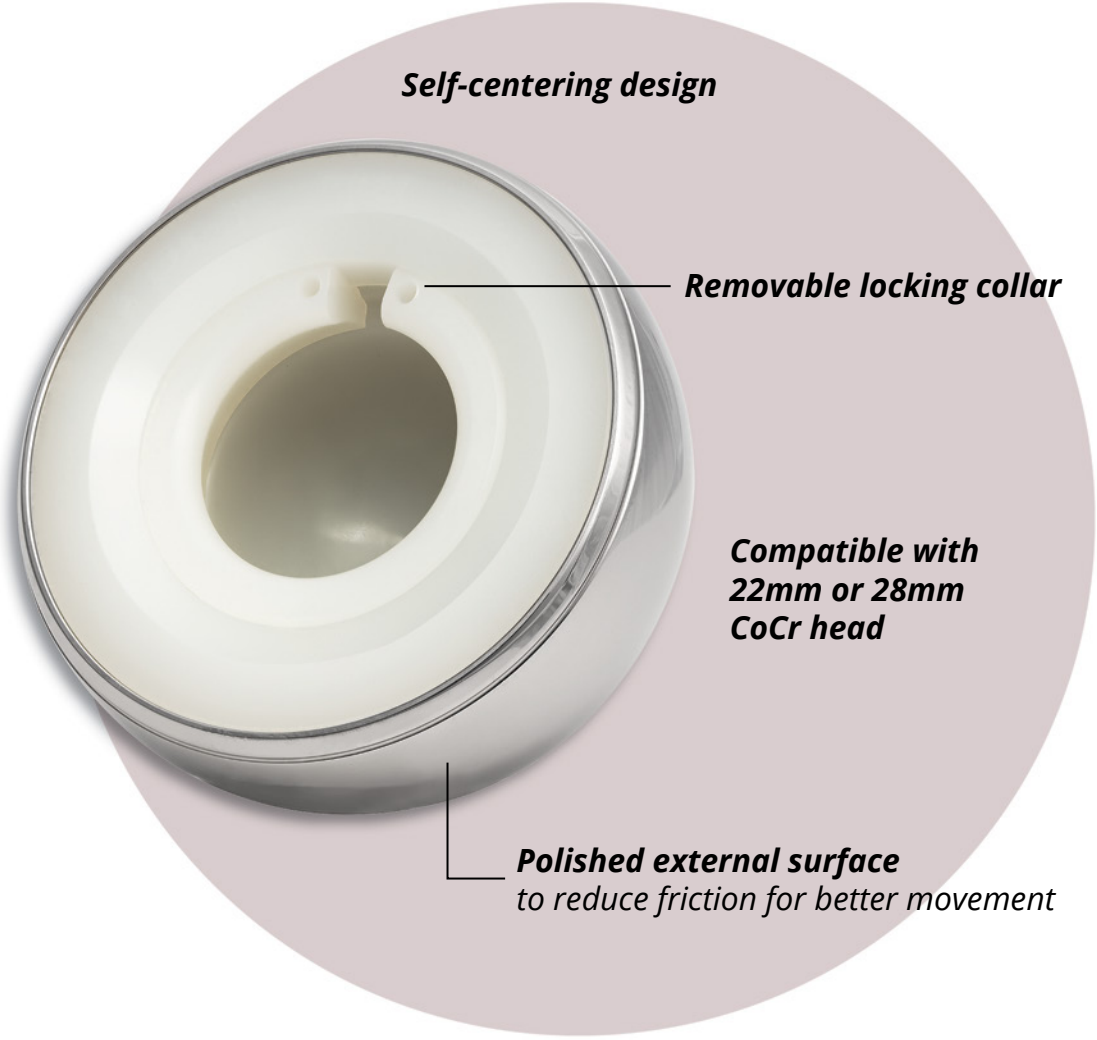
COCR HEAD

- Cobalt Chromium Alloy

BIOLOX® HEAD

- High purity alumina matrix with Zirconia reinforcement —from CeramTech Gmbh

BIPOLAR HEAD

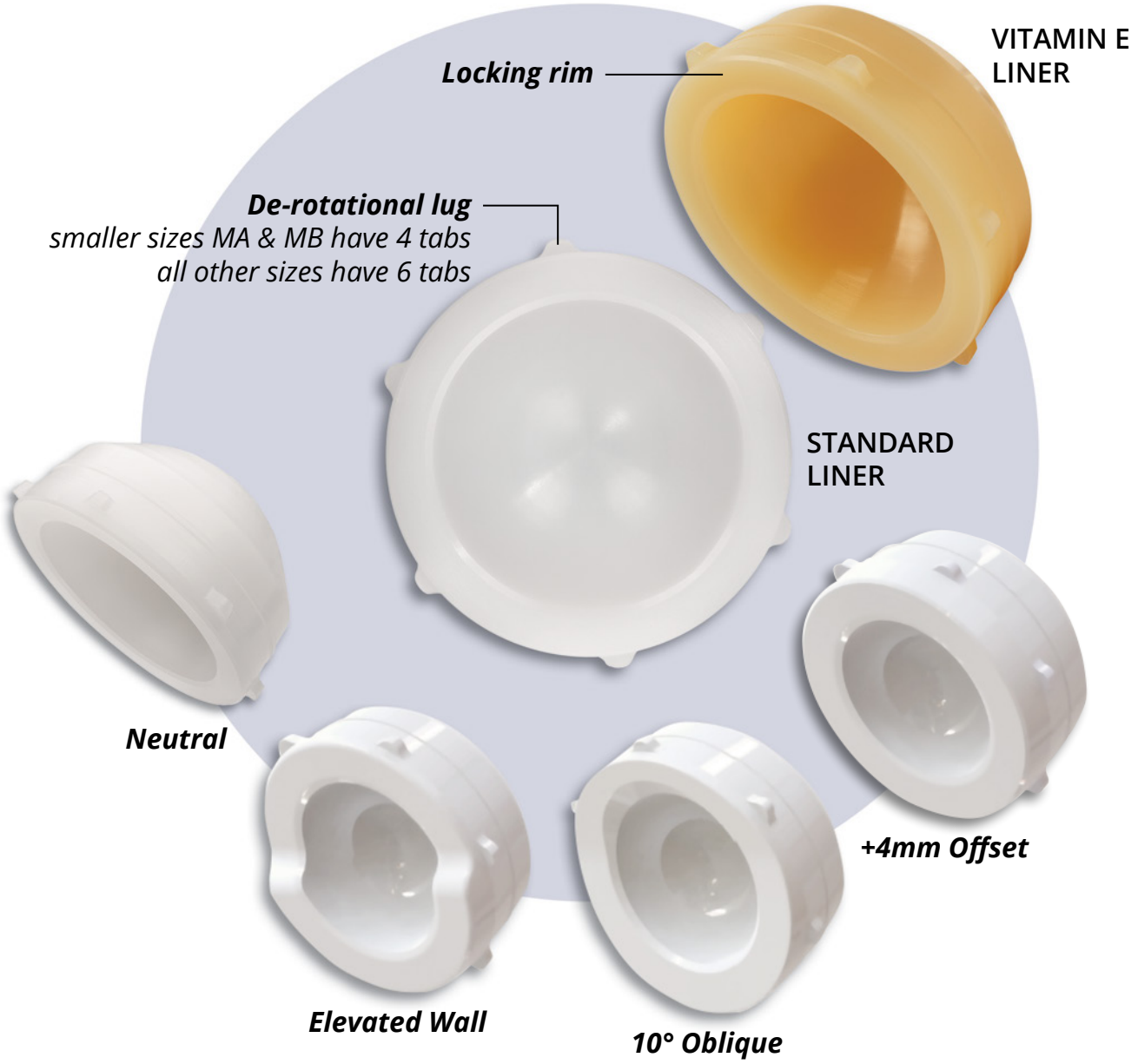


MATERIAL SPECIFICATIONS

INSERT

- UHMWPE Outer shell
- Stainless steel

LINERS



MATERIAL SPECIFICATIONS

LINERS

- Highly cross-linked ultra-high molecular weight polyethylene (HXLPE–Grade GUR® 1020, cross linked at radiation dose of 75 kGy confirming to ASTM F684-14)
- E-XLPE (Vitamin E (α-Tocopherol) blended UHMWPE material irradiated at a radiation dose of 120 kGy confirming to ASTM F648-14)

SYSTEM SIZING

MODULAR SHELL SIZES (MM)	MODULAR FEMORAL HEAD SIZES (MM)					MODULAR LINER SIZES
	22*	28	32	36	40	
40						MA
42						MA
44						MB
46						MB
48						MD
50						MD
52						MF
54						MF
56						MH
58						MH
60						MJ
62						MJ
64						MJ
66						MK
68						MK
70						MK

* Not available in Biolox® delta Modular Femoral Head

NOTE

The Libertas® Acetabular Cup System has been designed to assemble with Modular Shell and Modular Liner assembly that utilize a 22mm, 28mm, 32mm, 36mm or 40mm Cobalt Chromium Alloy Modular Femoral Head or 28mm, 32mm, 36mm or 40mm Biolox® delta Modular Femoral Head.

WARNING AND PRECAUTIONS

The Libertas® Acetabular Cup System, when used along with LIBERTAS Cemented Femoral Stem, is not recommended for use with the Cobalt-Chromium Alloy Modular Femoral Head above 28mm and Biolox® delta Modular Femoral Head above 28mm.

HEAD OFFSET OPTIONS

12/14 HEAD	CoCr					Biolox® *delta* – CeramTec				
OFFSET	HEAD SIZES (MM)									
	22	28	32	36	40	22	28	32	36	40
-4										
-3.5										
+0										
+3.5										
+4										
+7										
+8										

Pursue Life™

For more information about Libertas® Hip, please contact your local representative.

LEARN MORE ABOUT MAXX PRODUCTS WITH OUR APP:

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Libertas® Hip System

℞ only

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2460 General Armistead Ave, Ste 100
Norristown, PA 19403 USA

Carefully read all instructions and be familiar with the surgical techniques prior to use.

Please see the package insert for complete device description, product selection information, indications, contraindications, precautions, adverse effects, warnings, materials, sterilization and patient guidance associated with the Libertas® Total Hip System.

CAUTION: THIS DEVICE IS RESTRICTED TO SALE BY OR ON THE ORDER OF A LICENSED PHYSICIAN

WARNINGS: THE LIBERTAS® CEMENTED FEMORAL STEM IS INTENDED FOR CEMENTED USE ONLY.
THE LIBERTAS® HA UNCEMENTED FEMORAL STEM IS INTENDED FOR UNCEMENTED USE ONLY.

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