

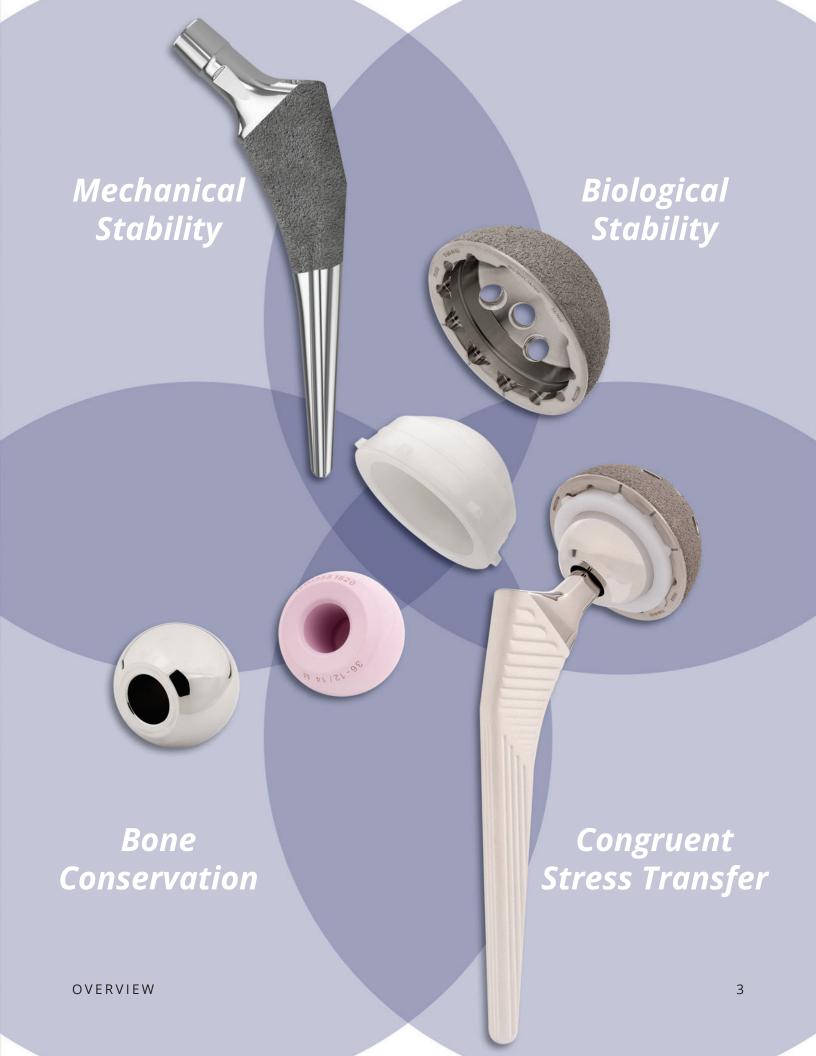


INTRODUCTION TO THE LIBERTAS® HIP SYSTEM

- 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.



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

OFFSET 38mm

Polished, double tapered design

Stainless steel stems in 9 size options

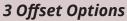
Winged and non winged centralizer options

MATERIAL SPECIFICATIONS

STEM

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

TAPER REDUCED STEM



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

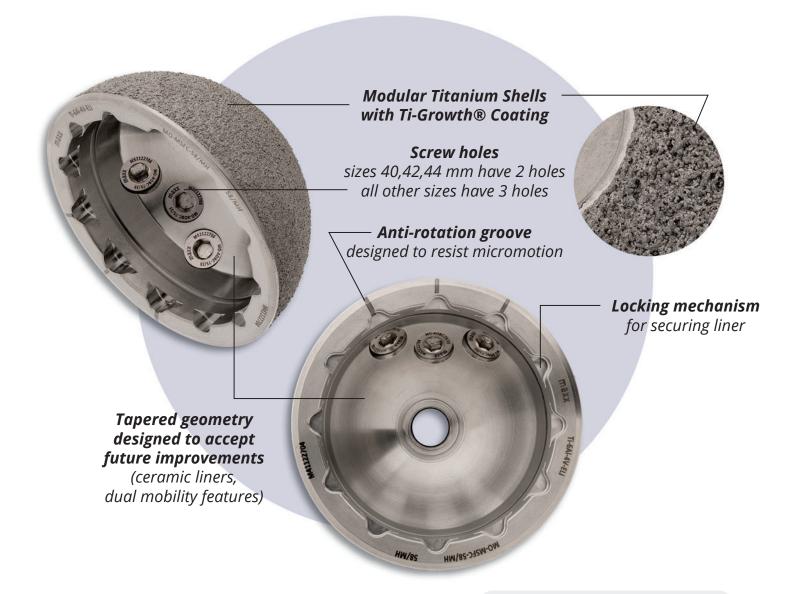
STEM

 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

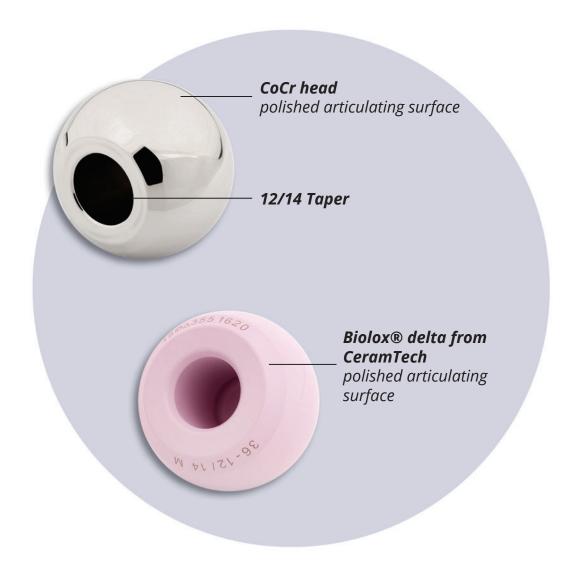
 Titanium Alloy (Ti6Al4V-ELI) with Ti-Growth® Titanium plasma spray coating

Ti-GROWTH® COATING DETAILS

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

OVERVIEW 7

HEADS



MATERIAL SPECIFICATIONS

COCR HEAD

Cobalt Chromium Alloy

BIOLOX® HEAD

 High purity alumina matrix with Zirconia reinforcement —from CeramTech Gmbh

BIPOLAR HEAD



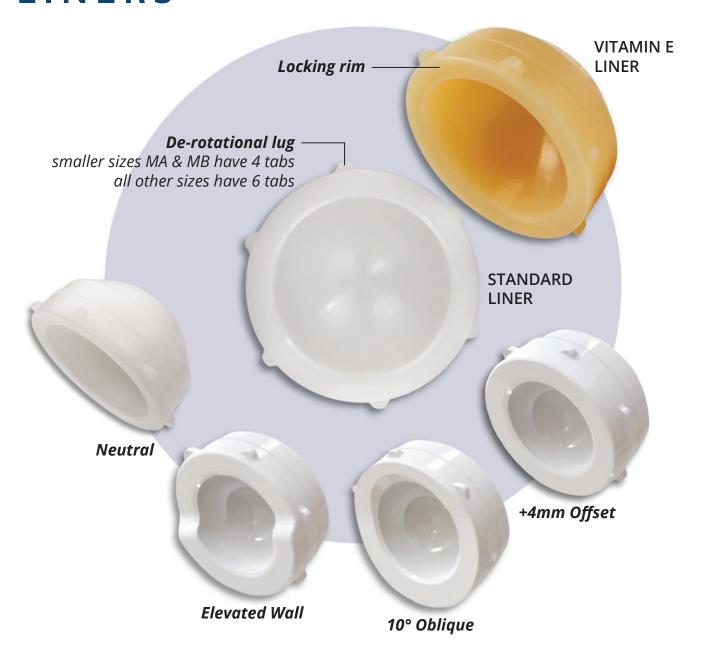
MATERIAL SPECIFICATIONS

INSERT

- UHMWPE Outer shell
- Stainless steel

OVERVIEW 9

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				
	22*	28	32	36	40	LINER SIZES
40						MA
42						MA
44						MB
46						MB
48						MD
50						MD
52						MF
54						MF
56						МН
58						МН
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® <i>delta</i> – CeramTec						
OFFSET	HEAD SIZES (MM)										
	22	28	32	36	40	22	28	32	36	40	
-4											
-3.5											
+0											
+3.5											
+4											
+7											
+8											

OVERVIEW 11

Pursue Life[™]

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

LEARN MORE ABOUT MAXX PRODUCTS WITH OUR APP:

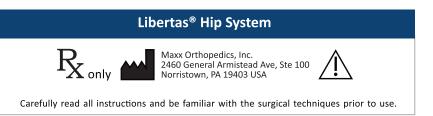








SEARCH: Maxx Ortho



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.

LIBERTAS® Hip is manufactured by Maxx Orthopedics, Inc. LIBERTAS, LIBERTAS HIP, LIBERTAS TR, LIBERTAS TAPER, LIBERTAS HA, and Pursue Life are Registered Trademarks of Maxx Orthopedics, Inc.

© 2022 Maxx Orthopedics. All rights reserved. Updated July 2022

