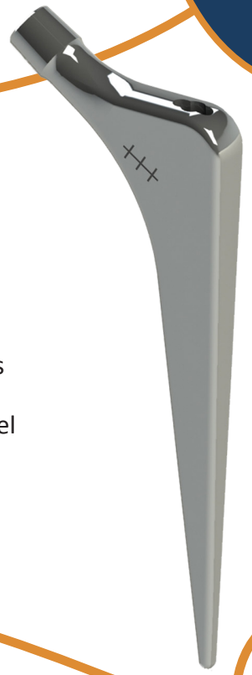
Libertas® Cemented System

Total Hip Arthroplasty



2 Offset Options to facilitate restoration of hip biomechanics

Polished, double tapered design

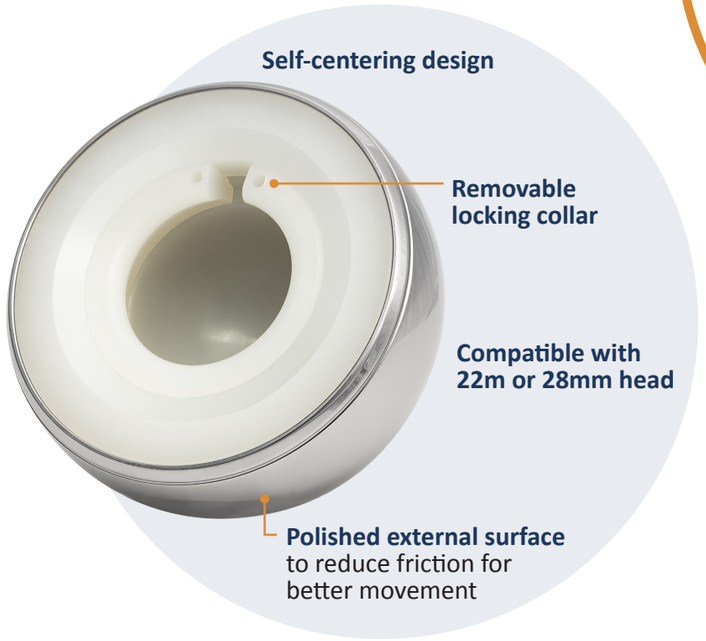
Stainless steel stems in 9 size options

Winged and non winged centralizer options

Stem Material - High Nitrogen Stainless Steel

Libertas® BiPolar Hip System

Bipolar Hemiarthroplasty



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LIBERTAS® HIP SYSTEM

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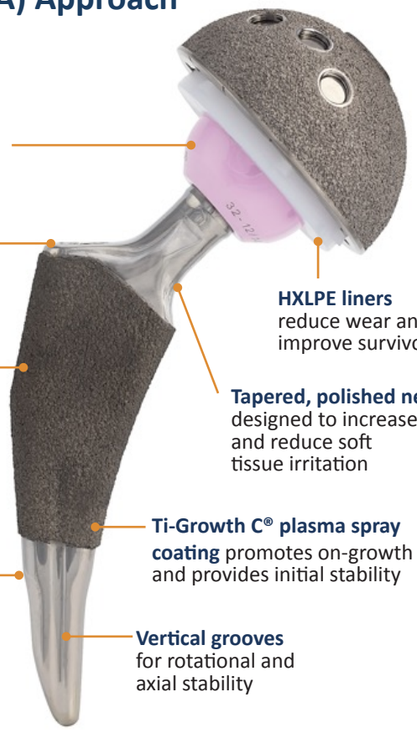
Libertas® Mini Taper Reduced (TR) System
Total Hip Arthroplasty

Direct Anterior (DA) Approach



Biolox® delta Ceramic Heads (CoCr available)

Lateral shoulder for ease of insertion

Short stem ideal for DA approach 37mm shorter than Libertas TR stem

Distal Reduction addresses potential challenges with proximal/ distal mismatch

HXLPE liners reduce wear and improve survivorship

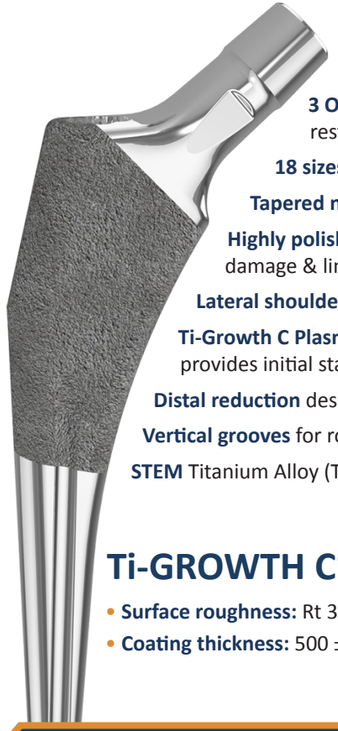
Tapered, polished neck designed to increase ROM and reduce soft tissue irritation

Ti-Growth C® plasma spray coating promotes on-growth and provides initial stability

Vertical grooves for rotational and axial stability

Libertas® Taper Reduced (TR) System
Total Hip Arthroplasty

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.



3 Offset Options to facilitate restoration of hip biomechanics

18 sizes in each offset option

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-Growth C Plasma spray coating promotes on-growth and provides initial stability

Distal reduction designed for better fit in proximal / distal mismatch

Vertical grooves for rotational and axial stability

STEM Titanium Alloy (Ti6Al4V – ELI) coating

Ti-GROWTH C® Plasma Spray Coating

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

Libertas® Hydroxyapatite (HA) System
Total Hip Arthroplasty

3 Offset Options to facilitate restoration of hip biomechanics

HA coated stems in 33 size options

Lateral shoulder designed for ease of insertion

Step design to maximize compression loading in cancellous bone

Trapezoidal cross section designed for initial stability

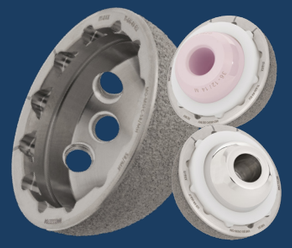
Vertical grooves designed for rotational and axial stability

Rectangular cross section designed for rotational stability

Collared and Collarless options

Acetabular Cup

- Ti-alloy (Ti6Al4V)- ELI
- 2 holes (sizes 40mm, 42mm, 44mm)
- 3 holes (sizes 46mm – 70mm)
- Locking tabs with anti-rotation grooves
- Ti-Growth C plasma spray coating
  - Roughness Rt 300 - 600 microns
  - Coating thickness 400 - 700 microns
  - Adhesion strength > 20 Mpa



Acetabular Liners

- (HXLPE) Highly cross-linked
- GUR 1020
- 75kgy Radiation dose

Neutral | Elevated Wall | +4mm High offset | 10⁰ Oblique

Vitamin E Liners

- (E-XLPE) Vitamin E alpha-tochopherol
- Blended UHMWPE
- 120kgy Radiation dose

Neutral | Elevated Wall

Femoral Heads

- CoCr alloy polished heads
- 12/14 taper

- BIOLOX® delta (CeramTec) polished ceramic heads
- 12/14 taper