TOTAL
JOINT
ORTHOPEDICS

KLASSIC HD® HIP SYSTEM

THE EVOLUTION

The Klassic HD® Hip System maximizes implant stability and comfort across a range of approaches. Both the Klassic HD® Femoral Stem and the Klassic® Blade Femoral Stem utilize a combination of our Ti-Coat® ultra-porous fixation with multi-wedge morphology to provide initial stability for long-term biological fixation. Evidence of Efficiency by Design® can be found throughout the system in reduced inventory and streamlined workflow, allowing the surgical team to focus on the patient while reducing costly waste.

KLASSIC® BLADE FEMORAL STEM

The triple-wedge Blade Stem is designed for consistent fixation with smooth surgical flow for any approach. A patented smooth medial radius transition between the proximal Ti-Coat® porous fixation and the roughened mid-stem zone facilitates stem placement.[1] Stem sizes grow in both the A/P and M/L directions to provide stable proximal fit regardless of bone shape or size. Line-to-line broaching with patented vector-correct broach impaction produces reliable stem placement that drastically reduces the risk of fracture.[2]

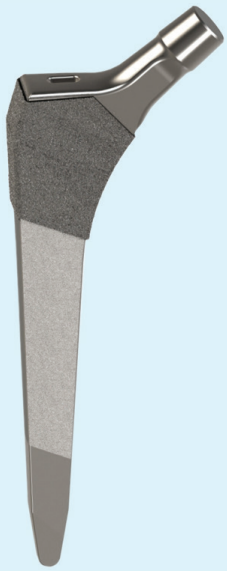
KLASSIC HD® FEMORAL STEM

The tapered, double-wedge geometry maximizes rotational stability, and features a proximal Ti-Coat® surface. The asymmetric sintered porous coating provides excellent scratch fit for initial fixation that leads to outstanding bony ingrowth for long-term stability.[3]

KLASSIC HD® FEMORAL HEADS

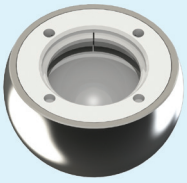
The Klassic HD® System offers both a standard BIOLOX®*delta* ceramic head as well as the BIOLOX CONTOURA® head. This exclusive femoral head features a reduced distal profile designed to limit soft tissue impingement that may lead to anterior groin pain, while maintaining the wear rates, burst strength, and dissociation strength of standard BIOLOX®*delta* heads.[4] The Klassic HD® System also offers a CoCr head.

Klassic® Blade Stem



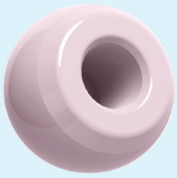
Klassic HD® Stem

KLASSIC® BIPOLAR SYSTEM

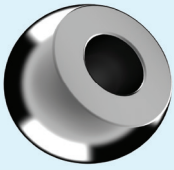


The Klassic® BiPolar System offers an affordable fracture care solution for low demand patients without sacrificing quality. The Klassic® BiPolar Head features a CoCr outer diameter and an ultra high molecular weight polyethylene (UHMWPE) inner articulation surface that mates with a CoCr Klassic® BiPolar Femoral Head. Coupled with standard and high offset femoral stem neck geometries, multiple options are available to fit a variety of patient anatomy.

BIOLOX CONTOURA® Femoral Head



BIOLOX®delta Femoral Head



Klassic HD® Femoral Head

EFFICIENCY BY DESIGN®

KLASSIC HD® ACETABULAR CUP

The Klassic HD® Acetabular Cup is thin-walled (3.5mm) with 1.5mm of press-fit at the outer rim, and features high-porosity Ti-Coat® for biological fixation. Three posteriorly positioned screw holes (two in sizes 48-52mm) provide additional security and offer flexibility in screw placement.

KLASSIC HD® ACETABULAR INSERTS

The highly-crosslinked Acetabular Inserts are stabilized to minimize oxidation potential. One insert for every cup size reduces inventory while providing a full range of sizes. Hooded inserts are available if additional stability is required.

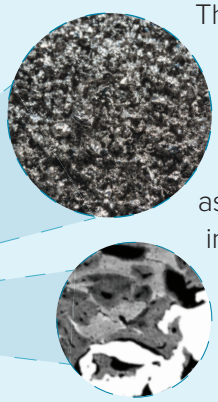
E-LINK® VITAMIN E STABILIZED POLYETHYLENE

E-Link® Stabilized Polyethylene is a Vitamin E stabilized highly cross-linked ultra high molecular weight polyethylene. Vitamin E is blended into the UHMWPE in powder form, compression molded, and cross-linked by gamma radiation at 10 MRad to provide equivalent crosslinking and wear resistance as XLPE. Vitamin E quenches free radicals for long lasting oxidative resistance.[5]

XLPE HIGHLY CROSSLINKED POLYETHYLENE

XLPE is compression-molded and irradiated to 7.5 MRad for enhanced wear resistance. A full re-melt removes residual free radicals and ethylene oxide sterilization protects against oxidation.[6]

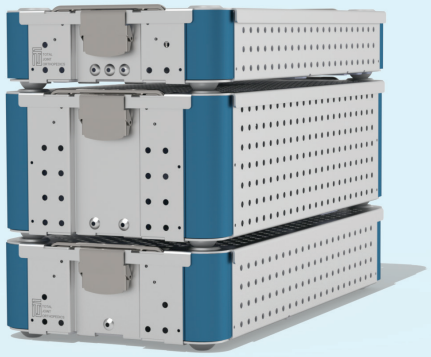
TI-COAT® POROUS COATING



The Klassic HD® Hip System offers Ti-Coat®, a three-dimensional rough porous coating with a mean porosity of 61%. Ti-Coat® is composed of commercially pure sintered asymmetrical grains that provide an initial scratch fit and biological fixation. Ti-Coat® is provided throughout the Klassic HD® Hip System for a consistent fixation strategy.

46% porous ingrowth at 12 weeks[7]

CONSISTENCY AND RELIABILITY OF COST SAVINGS



The Klassic HD® Hip System saves time and cost through carefully designed instrumentation that streamlines workflow. The Klassic HD® Hip System utilizes our flagship instrumentation with a maximum of three trays, far less than the competition, without the need for patient-specific configurations or costly disposables. Reducing trays could save the hospital up to $985 per case (compared to a typical 8-tray implant system) while reducing effort and complexity.[8]

[1] US Patent D774,194

[2] Crawford DA, Rutledge-Jukes H, Berend KR, Morris MJ. Does a triple-wedge, broach only stem design reduce early postoperative fracture in anterior total hip arthroplasty? *Surg Technol Int.* 2019;35:386-390.

[3] Law J, Hofmann A, Myers A, Grant A. Minimum 5-year follow up of porous coated cementless total hip arthroplasty. J Orthop Muscular Syst Res. 2019;2:1-6.

[4] Data on file

[5] Crowninshield, RD, Muratoglu, OK. How have new sterilization techniques and new forms of polyethylene influenced wear in total joint replacement? *J Am Acad Orthop Surg.* 2008;16:S80-S85.

[6] Data on file

[7] Hofmann AA, Bloebaum, RD, Rubman MH, Bachus, KN, Plaster, R. Microscopic analysis of autograft bone applied at the interface of porous-coated devices in human cancellous bone. *Int Orthop.* 1992 Dec; 7(4): 483-93.

[8] Siegel GW, Patel NN, Milshteyn MA, et al. Cost analysis and surgical site infection rates in total knee arthroplasty comparing traditional vs. single-use instrumentation. *J Arthroplasty.* 2015;30(12):2271-74.

**Klassic ONE® System for Klassic HD® Hip currently not available for sale in the US*

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