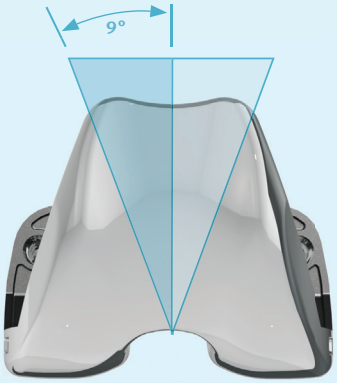
TOTAL
JOINT
ORTHOPEDICS

KLASSIC® KNEE SYSTEM

COMPLETE PRIMARY KNEE SYSTEM

The Klassic Knee is a modern universal design that offers seven sizes of femurs, six sizes of tibial inserts and baseplates, and five sizes of patellae to accommodate a variety of patient anatomy and provide a precision fit. The system requires only one tray of streamlined instrumentation for up to 90% of surgeries in order to reduce O.R. time and sterilization costs, help reduce the incidence of infection, and optimize efficiency and ergonomics, without preoperative imaging, templating, or disposables.[1,2] Modularity permits stems and augments* to offer a variety of surgical options for each patient's anatomy throughout an Evolution of Stability™ with the bone conservation of a primary implant.



KLASSIC® FEMUR

The femur features a patented[3] trochlear groove that allows optimal patellar tracking along a 9° double Q-angle on both left and right anatomy, while retaining a neutral outside profile of the anterior flange. The femur also offers anatomically tapered posterior condyles, a thin anterior flange, a proportional AP/ML ratio, and a neutral anterior flange shape to minimize potential lateral overhang.

EXCEPTIONAL FIXATION

The Klassic Porous Femur features Cobalt 3D®, our proprietary assymetric ultra-porous coating; the Klassic Porous Tibia features Ti-Coat®,

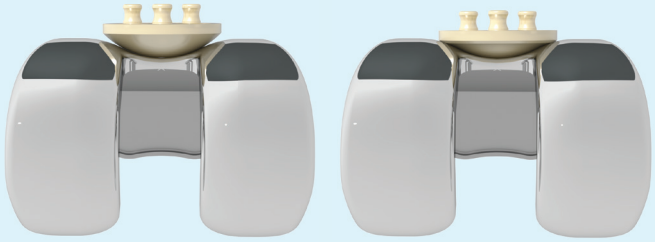
an ultraporous, three-dimensional sintered porous coating. Both coatings offer excellent biological fixation with proven long-term ingrowth.[4]

NO ANTERIOR STEP CUT

The femur is designed with a deepened trochlear groove to facilitate patellar tracking while eliminating a bone sacrificing and time consuming fifth cut for an anterior notch.

KLASSIC® PATELLA

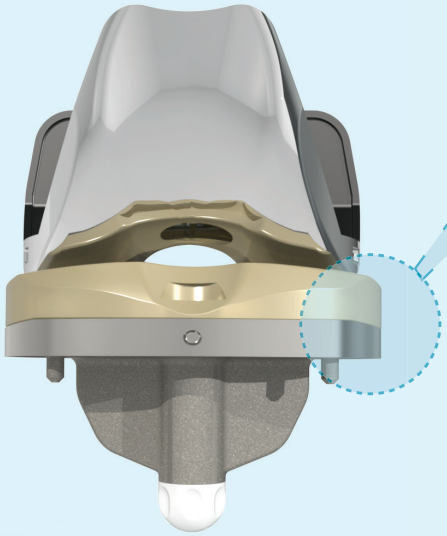
The geometrically forgiving Klassic Domed and Klassic Sombrero Patellae optimize patellofemoral contact area during tracking.

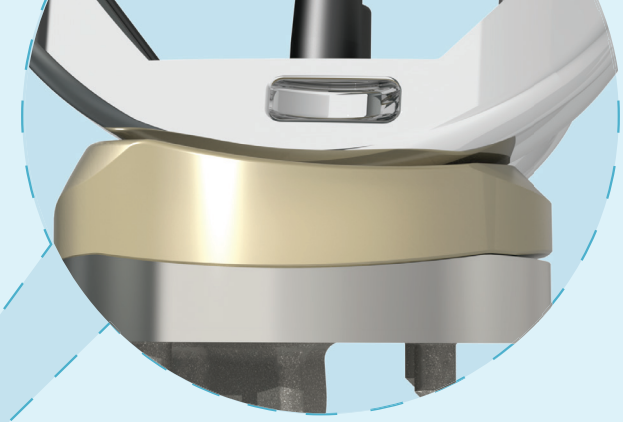


EFFICIENCY BY DESIGN®

CONFORMING CONGRUENCY

The M/L edges of the tibial baseplate and inserts have matching conforming geometry to provide consistent polyethylene thickness all the way to the peripheral edges. One-to-one sizing for femur/insert articulation maximizes congruency and optimizes mid-flexion stability.



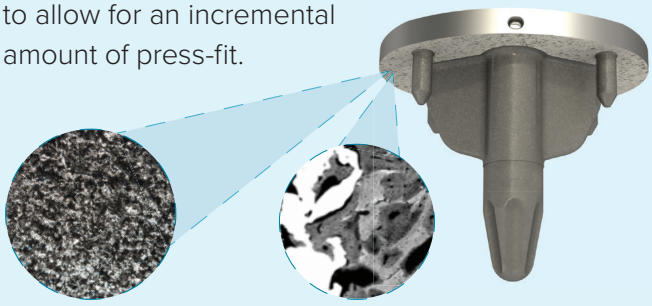


INSERT LOCKING MECHANISM

The Klassic Tibial Insert locking mechanism combines a tibial set screw, anterior snap, M/L constraints, and a polished tray to minimize backside wear. The insert features an anti-backout mechanism to ensure retention of the screw.

ANATOMICALLY OPTIMIZED TIBIAL BASEPLATE WITH MODULAR FEATURES

The tibial baseplate is designed to optimally cover the tibial plateau using a universal geometry. The sweptback keel offers 4° of posterior slope and features modularity to allow for stem extensions and future augments*. The Klassic Porous Tibia features Ti-Coat®, an ultraporous, three-dimensional sintered porous coating and offers a central stemmable keel and four enhanced peripheral pegs for initial mechanical fixation and rotational stability. The pegs are uncoated to decrease stress-shielding and sized to allow for an incremental amount of press-fit.



Ti-Coat® coating

46% porous ingrowth at 12 weeks

CRUCIATE RETAINING AND CRUCIATE SACRIFICING TIBIAL INSERTS

Both a deep-dished Ultra-PS® Insert and a standard CR/Congruent Insert are compatible with the Klassic CR Femur. The Ultra-PS insert provides a high anterior jump height and increased conformity to provide stability through a range of flexion for a PCL-sacrificing surgery without a cam and post design. The posterior lip of both the CR/Congruent and the Ultra-PS Insert is relieved to minimize impingement.

E-LINK® VITAMIN E STABILIZED POLY

E-Link Poly is cross-linked at 10 MRads, quenching free radicals generated during the cross-linking process, yielding oxidative stability, and increasing strength without brittleness. E-Link has shown improved wear characteristics over standard polyethylene.[5] The Klassic Knee System is also available in standard UHMWPE.

ALL-POLY TIBIA

The Klassic All-Poly Tibia is available in both CR/Congruent and Ultra-PS® to provide exceptional outcomes at a bundled payment price point.[6] The underside of the component is roughened to improve cement fixation. An extended stem enhances stability.

[1] Mont MA, Johnson AJ, Issa K, Pivec R, Blasser KE, McQueen D, et al. Single-use instrumentation, cutting blocks, and trials decrease contamination during total knee arthroplasty: a prospective comparison of navigated and nonnavigated cases. *J Knee Surg.* 2013.

[2] Attard A, Tawy GF, Simons M, Riches P, Rowe P, Biant LC. Health costs and efficiencies of patient-specific and single-use instrumentation in total knee arthroplasty: a randomised controlled trial. *BMJ Open Qual.* 2019.

[3] US Patents 9,289,305 and D755,971

[4] Epperson RT, Mangiapani D, Bloebaum RD, Hofmann AA. Bone ingrowth comparison of irregular titanium and cobalt-chromium coatings in a translational cancellous bone model. *J Biomed Mater Res B Appl Biomater.* 2019.

[5] Study in collaboration with Dartmouth Biomedical Engineering Center. Data forthcoming

[6] All-polyethylene tibial components: an analysis of long-term outcomes and infection Houdek MT, Wagner ER, Wyles CC, Watts CD, Cass JR, Trousdale RT. *J Arthroplasty.* 2016.

**Not available for sale in the US*

MK-91004 Rev. H/010720