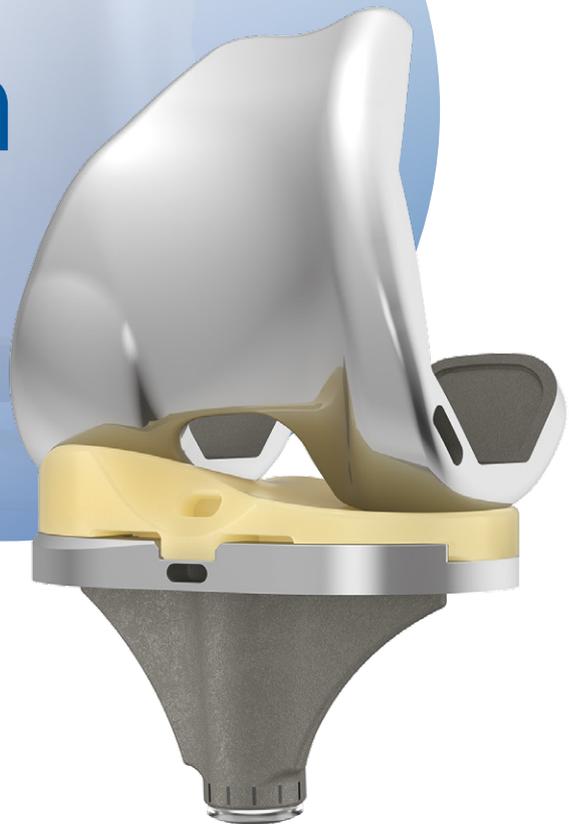


5C[®] MEDic Knee System



Connection Through Innovation

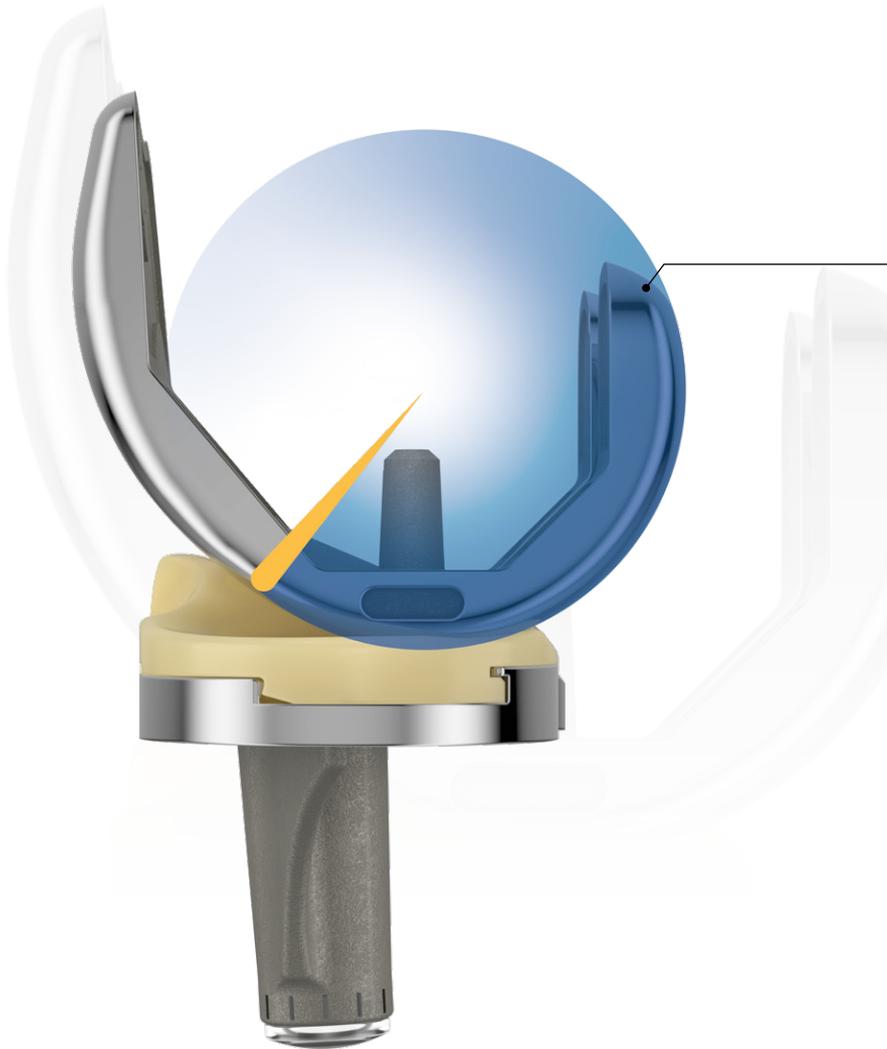
Developed by implantcast in collaboration with experts from five continents, the **5C[®]** knee system (*5 Continents*) represents global expertise and forward-thinking design.

With four distinct system variants, each tailored to a specific kinematic principle, the system offers individualized solutions for a wide range of anatomical and functional needs.

The **5C[®]** MEDic system reconstructs the native anatomy and kinematics of the knee based on the principles described by Pinskerova and Freeman¹, intentionally simplified in scope. A medial “ball-in-socket” articulation between the femoral component and the PE insert creates a stable medial pivot point, ensuring consistent guidance throughout the full range of motion. Laterally, the flat geometry allows controlled translation, supporting a physiological movement pattern.

Milestones 5C[®]





Medial Pivot

with a true “ball-in-socket” design



Native Kinematics

via a stable medial pivot center



Innovative Patella Tracking

based on the natural trochlear path



Ultra-Slim Design

only 8mm implant thickness



Precise Fit

thanks to fine size increments

MEDic – Medial Pivot, Inherent Stability



High Stability in Deep Flexion

through a single-radius design and true medial “ball-in-socket”, up to 110° flexion



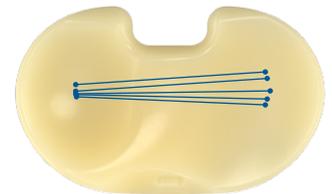
Medial “ball in socket”

provides stabilization and reduces paradoxical sliding between femur and inlay

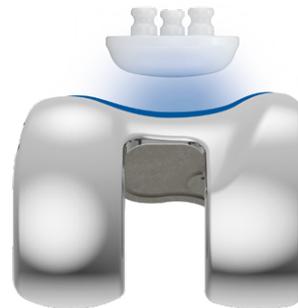
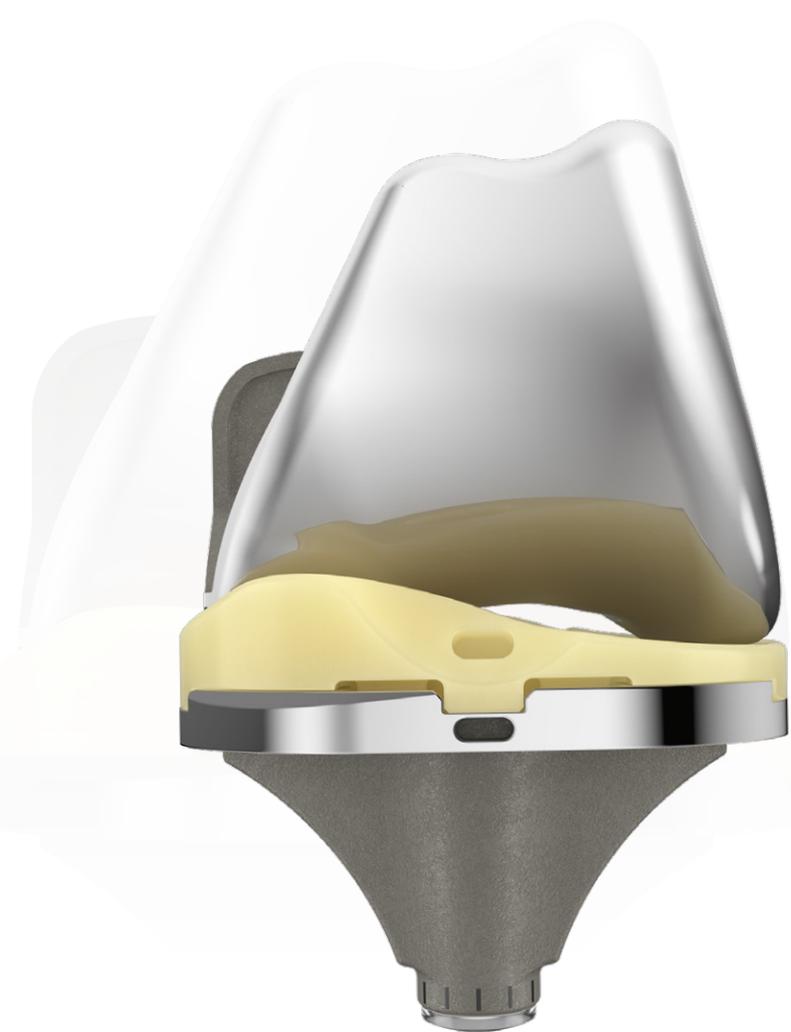


Replicates Natural Motion

a stable medial side with lateral mobility closely mimics native knee kinematics



Contact points between the femur and PE insert at different degrees of flexion



Innovative Patella Tracking

crescent-shaped groove, 4 mm lateralized, replicates natural patellar alignment



High Sulcus Angle

ensures smooth patellar engagement, natural tracking, and minimizes the risk of overstuffing



Optimized Patellofemoral Contact Surface

lowers contact pressure and allows for a more physiological patellar tilt and shift

Uncompromising in Design – Reliable in Performance



Standardized Components

identical preparation with only 8 mm femoral and 9 mm tibial resection



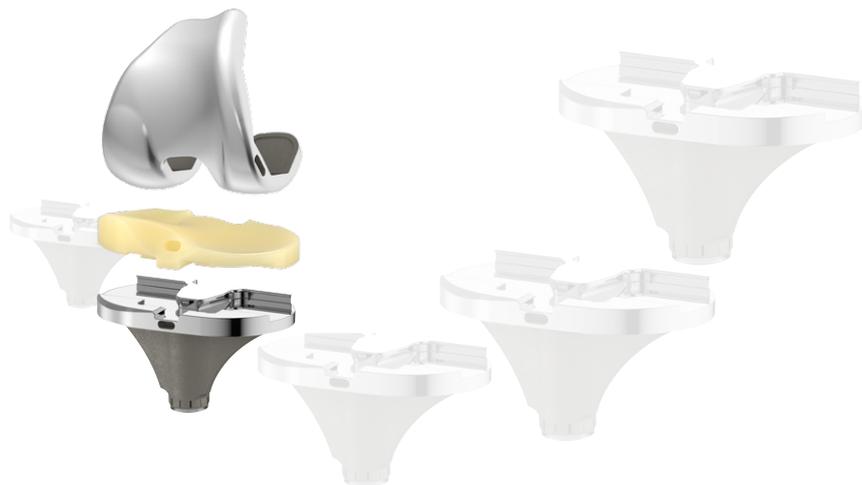
Reproducibility by Design

the femoral component defines the size of the PE insert



Flexible Compatibility

cross-size combination of PE inserts and five tibial components





Fewer Trays, Greater Efficiency

only four streamlined containers for fast and efficient handling



Tailored Precision

ergonomic, functional and intuitive instruments for individualized adjustment



Technology-Driven Implantation

image-free navigation and collaborative robotics for optimal outcomes



walk with us

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