

# 5C<sup>®</sup> PS Knee System



# Connection Through Innovation

Developed by implantcast in collaboration with experts from five continents, the **5C<sup>®</sup>** 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<sup>®</sup>** PS system provides reliable stability throughout the entire range of motion. An optimized box design with a coordinated cam-post mechanism enables controlled femoral rollback and enhances lever mechanics in deep flexion. Early cam-post engagement ensures knee stability during everyday activities such as stair climbing or standing up.

## Milestones 5C<sup>®</sup>





### **Posterior Stabilized**

with single-radius design



### **Early Stabilization**

initial cam-post contact at 45° flexion



### **Improved Patella Tracking**

due to optimized sulcus angles



### **Ultra-Slim Design**

only 8mm implant thickness



### **Precise Fit**

thanks to fine size increments

# PS – Posterior Stabilized

Reliable Stability in Every Movement



## Controlled Mid-Flexion Stability

progressive cam-post interaction provides smooth, controlled stabilization throughout flexion



## Full Stability from 60° Flexion

initial cam-post contact at 45°, full engagement achieved at 60° flexion

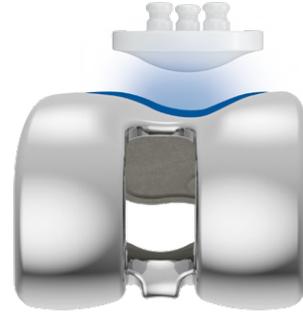
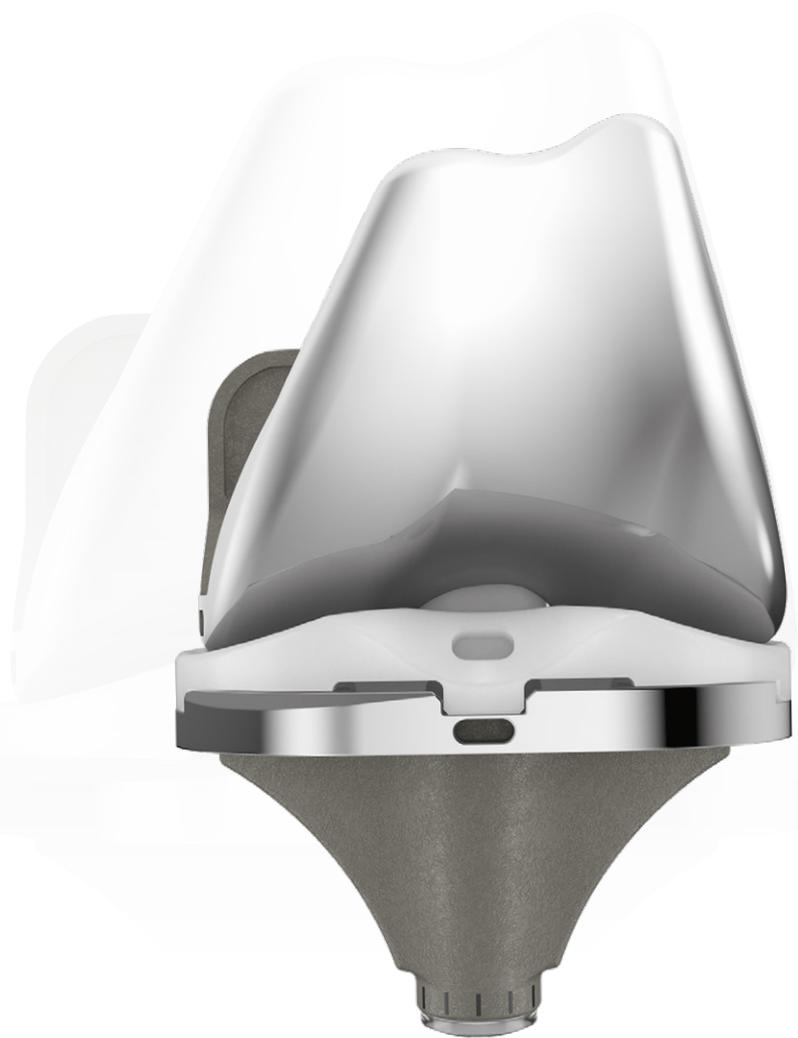


## 24° of Rotational Freedom

enabled by a rounded cam design for optimized force transfer and mobility



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



### **Size-Specific Box Dimensions**

soft-tissue friendly with optimized jump height for functional stability



### **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

**implantcast GmbH**

Lüneburger Schanze 26  
21614 Buxtehude  
Germany

tel.: +49 4161 744-0  
fax: +49 4161 744-200

info@implantcast.de  
www.implantcast.de

CE 0482

