eMP™

Evolution®
Medial-Pivot Knee System

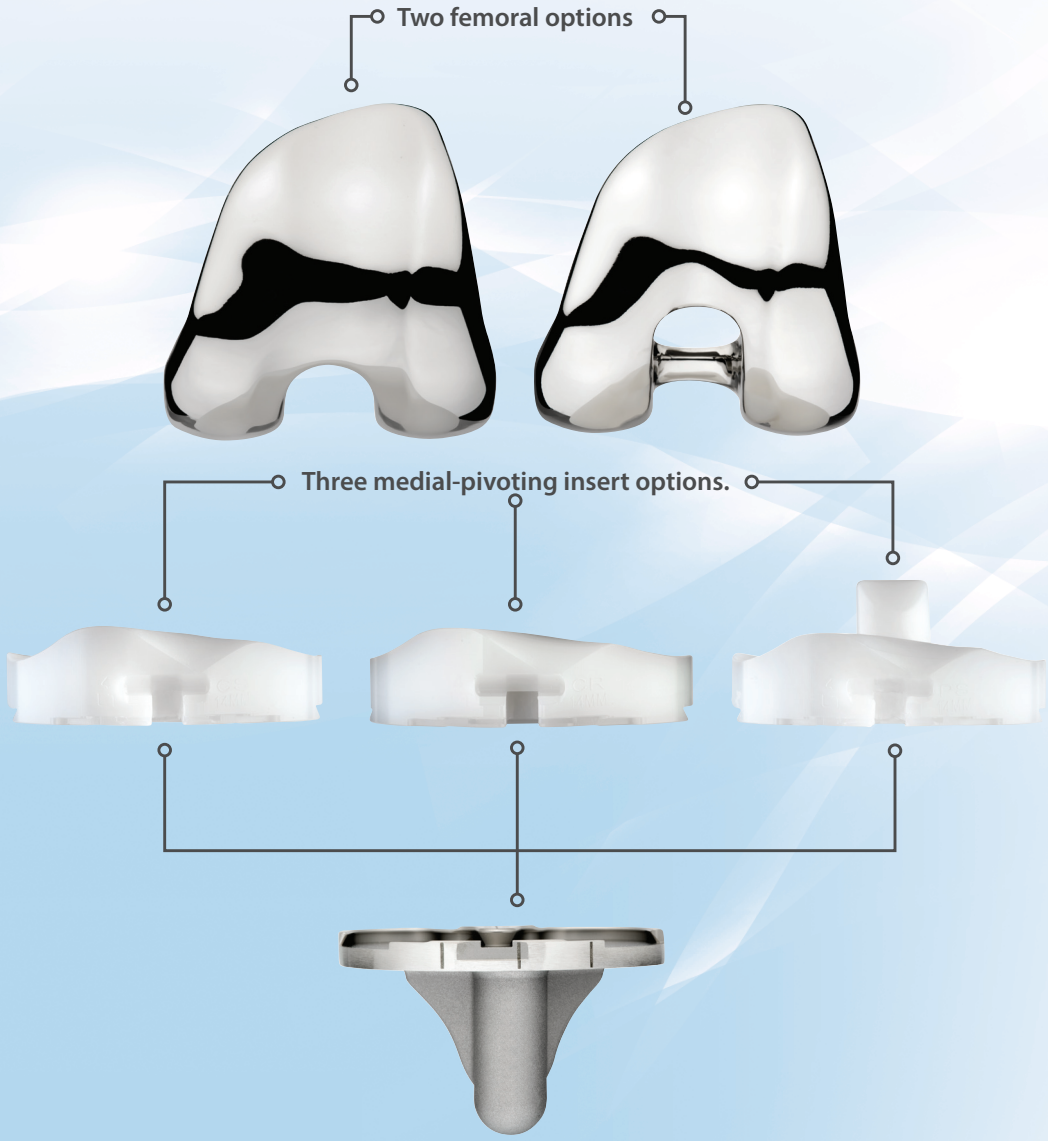
Knee System Summary

MicroPort Orthopedics

Full Function, Faster®

The eMP™ Knee System addresses the limitations of traditional designs

and today's patient needs by delivering superior flexion stability, anatomic motion, and wear-limiting design characteristics through three primary knee options. The three options offered are: Cruciate-Substituting (CS), Cruciate-Retaining (CR), and Posterior Stabilized (PS). All three incorporate the medial-pivot concept through spherical femoral condyles while matching the highly conforming medial "socket" and the 15° lateral arcuate path.



All options connect to a single anatomic tibial base.

Cruciate-Substituting (CS) Knee

Femoral Component:

- **Constant Radius** from -45° to 100° medially and 0° to 100° laterally which delivers constant contact area in flexion and extension.
- **Thick Posterior Condyles** allows for greater contact area in deep flexion.
- **3.6° Anatomic Flare** optimizes patellar tracking.

Polyethylene Insert:

- **3° Posterior Slope** on the lateral side potentially allows for deeper flexion.
- **15° Lateral Arcuate Path** provides rotational freedom.
- **Patellar Tendon Relief** through a reduced profile of the anterior portion of the tibial insert.

Tibial Component:

- **Asymmetric Base** allows a more anatomic design for better bone coverage.
- **1-Up, 1-Down Sizing** improves bone coverage and fit.
- **8° Angled Locking Mechanism** aids in less-invasive procedure.
- **Dual Dovetail Locking Mechanism** reduces micromotion.
- **3° Posterior Slope** built into the stem and keel to ensure proper orientation down the cortex of the tibia.

Cruciate-Retaining (CR) Knee

Femoral Component:

- **Constant Radius** from -45° to 100° medially and 0° to 100° laterally which delivers constant contact area in flexion and extension.
- **Thick Posterior Condyles** allows for greater contact area in deep flexion.
- **3.6° Anatomic Flare** optimizes patellar tracking.

Polyethylene Insert:

- **3° Posterior Slope** on the lateral side potentially allows for deeper flexion.
- **15° Lateral Arcuate Path** provides rotational freedom.
- **Patellar Tendon Relief** through a reduced profile of the anterior portion of the tibial insert.
- **PCL Flexion Path** keeps the retained ligament from impinging.

Tibial Component:

- **Asymmetric Base** allows a more anatomic design for better bone coverage.
- **1-Up, 1-Down Sizing** improves bone coverage and fit.
- **8° Angled Locking Mechanism** aids in less-invasive procedure.
- **Dual Dovetail Locking Mechanism** reduces micromotion.
- **3° Posterior Slope** built into the stem and keel to ensure proper orientation down the cortex of the tibia.

Posterior Stabilized (PS) Knee

Femoral Component:

- **Constant Radius** from -45° to 100° medially and 0° to 100° laterally which delivers constant contact area in flexion and extension.
- **Anterior Cam** permits up to 10° of component hyperextension.
- **3.6° Anatomic Flare** optimizes patellar tracking.

Polyethylene Insert:

- **3° Posterior Slope** on the lateral side potentially allows for deeper flexion.
- **15° Lateral Arcuate Path** provides rotational freedom.
- **Patellar Tendon Relief** through a reduced profile of the anterior portion of the tibial insert.

Tibial Component:

- **Asymmetric Base** allows a more anatomic design for better bone coverage.
- **1-Up, 1-Down Sizing** improves bone coverage and fit.
- **8° Angled Locking Mechanism** aids in less-invasive procedure.
- **Dual Dovetail Locking Mechanism** reduces micromotion.
- **3° Posterior Slope** built into the stem and keel to ensure proper orientation down the cortex of the tibia.

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