

EMPOWR™

NATURAL MOTION TECHNOLOGY

FEATURES BROCHURE



EMPOWR
3D Knee®



EMPOWR
CR Knee™



EMPOWR COMPLEX
PRIMARY Knee™



EMPOWR
PS Knee®



EMPOWR
POROUS Knee™

EMPOWR™ Knee System

The EMPOWR Knee System is a comprehensive and versatile implant platform. The EMPOWR 3D Knee® enables Dual-Pivot™ articulation, which replicates natural motion throughout a full range of motion.¹ The EMPOWR CR Knee™ promotes healthy motion through a patient-specific, tissue guided articulation. The EMPOWR PS Knee® is designed to provide stability through seamless cam articulation. The EMPOWR VVC™ Knee provides increased constraint and stability when desired.² The EMPOWR Porous™ Knee provides a cementless solution through DJO's proprietary advanced porous coating, P2™, on the tibial component, and 3DMatrix® on the femoral component.



EMPOWR 3D Porous Femur



EMPOWR 3D Femur



EMPOWR 3D Insert



EMPOWR CR Insert



EMPOWR PS Femur



EMPOWR PS Insert



EMPOWR VVC Insert



EMPOWR Knee Porous Baseplate



EMPOWR Knee System Baseplate



EMPOWR Knee Universal Baseplate

EMPOWR PS™ FEMORAL COMPONENT

The EMPOWR PS Femur is designed to recreate natural stability throughout a full range of motion, from early through deep flexion, creating a more natural feeling knee.

BONE SPARING BOX WIDTHS

Designed to preserve bone in smaller joints and reduce fracture risk

- Sizes 2-5 (18.5mm)
- Sizes 6-11 (22.5mm)



INSERT COMPATIBILITY

Can be used with the EMPOWR PS tibial insert or with the EMPOWR VVC tibial insert, when additional constraint is required

FIXED FEMORAL IMPACTOR RELIEF

To aid in accurate placement of prosthesis with implant specific impactor

CONTOURED PS CAM

Designed to facilitate rotation in deep flexion and minimize post wear

DECREASED FEMORAL RADIUS

Prevents overstuffing of the flexion gap and permits up to 150° of flexion

SINGLE RADIUS OF CURVATURE

Allows for consistent soft tissue tension through approximately 65°.



5° ANTERIOR FLANGE

Reduces risk of notching¹

9MM CONDYLAR THICKNESS

Constant 9mm distal and posterior condyles across all sizes facilitate balancing flexion and extension gaps

EMPOWR PS TIBIAL INSERT

Designed to achieve natural stability through seamless cam articulation.

MID-FLEXION POST-CAM ENGAGEMENT

Designed to provide stability during mid flexion. The cam moves down post with flexion to minimize stress and maximize longevity

IMPACTION FEATURE

Impactor tool securely snaps insert into place

1MM INSERT INCREMENTS

Allows for optimal soft tissue balancing 10, 11, 12, 13, 14, 16, 19mm (symmetric)

SYMMETRIC ANTERIOR LIP

Designed to provide stability prior to post engagement, preventing anterior femoral translation

ANTERIOR LOCKING TABS

Combined with a robust posterior dovetail locking mechanism, these tabs securely lock insert into baseplate



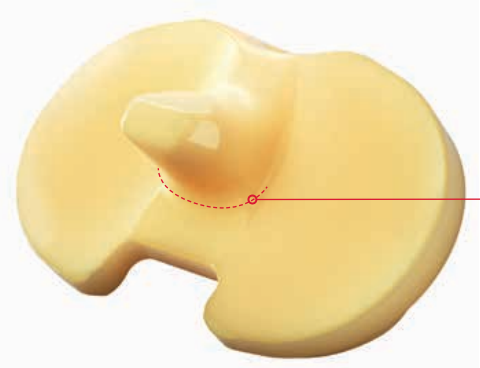
e+ POLYETHYLENE

This knee-specific formula of the tibial inserts and patella components, blended with vitamin E and moderately cross-linked, reduces oxidation and long-term wear⁶



PATELLA OPTIONS

Available in 26, 29, 32, 35 and 38mm options
For use with EMPOWR 3D and PS femurs



CONTOURED POST

Designed to facilitate femoral rollback and external rotation, resulting in tissue guided, medial pivot motion in deep flexion

EMPOWR™ TIBIAL BASEPLATE

Asymmetric baseplate design maximizes tibial coverage without overhang, optimizing baseplate fixation.¹

POSTERIOR CAPTURES

Rigidly secures posterior portion of insert



DOVETAIL LOCKING MECHANISM

Facilitates tibial insert insertion and securely locks insert in place

TIERED KEEL SIZES

3 size-specific lengths to closely match patient anatomy and help preserve bone:

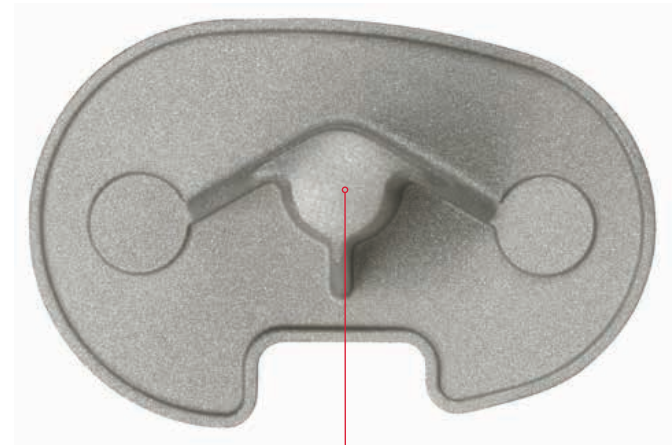
Small: Sizes 2-3 (31mm)

Medium: Sizes 4-8 (35mm)

Large: Sizes 9-11 (43mm)

ASYMMETRIC BASEPLATE DESIGN

Maximizes cortical coverage without overhang¹



TRI-FLANGE KEEL DESIGN

Designed to provide rotational stability and high surface area for cement adhesion for rigid fixation



EMPOWR™ Knee System

N A T U R A L M O T I O N T E C H N O L O G Y

1. 3D Knee™ Technical Monograph 0011102-004
2. Investigative Report of EMPOWR VVC Insert with EMPOWR PS Femur Interface Characteristics IPRD-2017-0047
3. Mahoney, Ormonde M., et al. "The effect of total knee arthroplasty design on extensor mechanism function." The Journal of Arthroplasty 17.4 (2002): 416-421.
4. P2™ Testing Summary 0020327-001 Rev A 10/14
5. Harman, Melinda K., et al. "Total knee arthroplasty designed to accommodate the presence or absence of the posterior cruciate ligament." Advances in orthopedics 2014 (2014).
6. e+™ Surgeon Testing Summary 0011110-004
7. EMPOWR VVC™ Locking Mechanism Testing PR17-063-01
8. Bhimji, Safia, and R. Michael Meneghini. "Micromotion of cementless tibial baseplates: keels with adjuvant pegs offer more stability than pegs alone." The Journal of Arthroplasty 29.7 (2014): 1503-1506.

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