Vanguard Tibial Bearings are available in ArCom® Direct Compression Molded (DCM) Polyethylene and E1™ Antioxidant Infused Technology. ArCom Polyethylene is clinically proven to be resistant to wear, delamination, and oxidation1–4. E1 Antioxidant Infused Bearings, founded on ArCom heritage, are infused with Vitamin-E, a natural antioxidant. E1 Technology defines a new class of tibial bearings and overcomes the limitations of remelted and annealed polyethylenes by uniting true oxidative stability, high mechanical strength, and ultra-low wear.5,6

References

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The Vanguard Knee System offers surgical simplicity with complete component interchangeability.

**Softened Anterior Flange**
Streamlined design to help avoid incidence of “retinacular tenting”.

**Deep Trochlear Groove**
Reduces patellar forces throughout range of motion.

**Proportional Posterior Condyles**
Allows for optimal contact area in deep flexion.

**Wide-Proximal Trochlear Groove**
Provides excellent patellar tracking regardless of patient’s Q-angle.*

**Optimized Tibiofemoral Articulation**
Increased contact area in high flexion and axial rotation.

**Removable Lugs**
For modular augmentation.

**Extended Trochlear Groove**
Allows the patella to maintain full contact with the femoral component in deep flexion.

**Patellar Tendon Relief**
Facilitates increased range of motion.

**Raised Anterior Lip**
Provides enhanced femoral rotational stability and controls anterior femoral slide.

**Additional Features of the Vanguard CR Design:**

- 10 femoral components that grow anterior/posterior on average by 2-4 mm increments
- Fully interchangeable tibial/femoral sizing
- 1:1 tibial/femoral coronal congruency
- PPS® Porous Plasma Spray Coating for cementless or Interlok® Finish for cemented applications

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**Zimmer Biomet Tibial Tray**

The Vanguard Complete Knee System features a symmetrical tibial tray design for optimal coverage, ArCom and E1 Tibial Bearings for proven wear resistance,1 and a proven locking mechanism shown to be “the most stable overall.”2,3 Zimmer Biomet Tibial Trays are available with Interlok Finish for cemented applications or Regenerex Porous Titanium Construct to enhance bone fixation in cementless applications.

**Patellar Tendon Relief**
Facilitates increased range of motion.

**Extended Trochlear Groove**
Allows the patella to maintain full contact with the femoral component in deep flexion.

**Deep Trochlear Groove**
Reduces patellar forces throughout range of motion.

**Proportional Posterior Condyles**
Allows for optimal contact area in deep flexion.

**Wide-Proximal Trochlear Groove**
Provides excellent patellar tracking regardless of patient’s Q-angle.*

**Optimized Tibiofemoral Articulation**
Increased contact area in high flexion and axial rotation.

**Removable Lugs**
For modular augmentation.

**Extended Trochlear Groove**
Allows the patella to maintain full contact with the femoral component in deep flexion.

**Softened Anterior Flange**
Streamlined design to help avoid incidence of “retinacular tenting”.

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*within 0–15 degrees of Q-angle