

Vanguard® Tibial Bearings

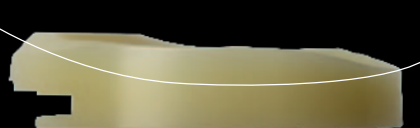
Vanguard® Tibial Bearings are available in ArCom® Direct Compression Molded (DCM) polyethylene and E1™ Antioxidant Infused Technology. ArCom® polyethylene is clinically proven to be resistant to wear, delamination and oxidation.¹⁻⁴

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}



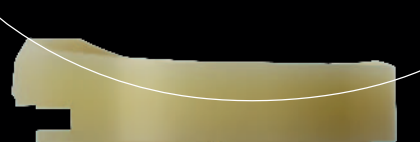
Cruciate Retaining

- 3° posterior slope
- 15° internal/external rotation



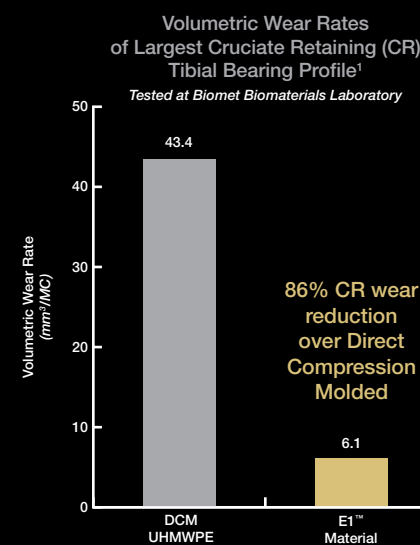
Cruciate Retaining Lipped

- Enhanced posterior lip
- 15° internal/external rotation



Anterior Stabilized

- Prominent 10mm anterior lip
- 5mm posterior lip
- 6° internal/external rotation



References

1. Beading, L. Direct Molded Components Shown to Resist Oxidation. *Orthopedics Today*. 17(4): 1997.
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3. Beading, L. Polyethylene-Related Failure: A Challenge to TKA. *Orthopedics Today*. 16–21, 1996.
4. Ritter, M. *et al.* Long-Term Survival Analysis of a Posterior Cruciate-Retaining Total Condylar Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. 309:136–145, 1994.
5. Data on file at Biomet. Bench test results not necessarily indicative of clinical performance.
6. Kurtz, S. *et al.* *The UHMWPE Handbook: Ultra High Molecular Weight Polyethylene in Total Joint Replacement*. Elsevier Academic Press. San Diego, CA. 2004.
7. Parks, N. *et al.* Modular Tibial Insert Micromotion. *Clinical Orthopaedics and Related Research*. 356:10–15, 1998.
8. Sosa, M. *et al.* Micromotion Between the Tibial Tray and the Polyethylene Insert. Fifth World Biomaterial Congress. Toronto Canada, May 29–June 2, 1996.
9. Incavo, S. *et al.* Tibial Plateau Coverage in Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. 299:81–85, 1994.

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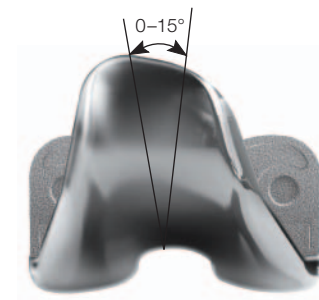
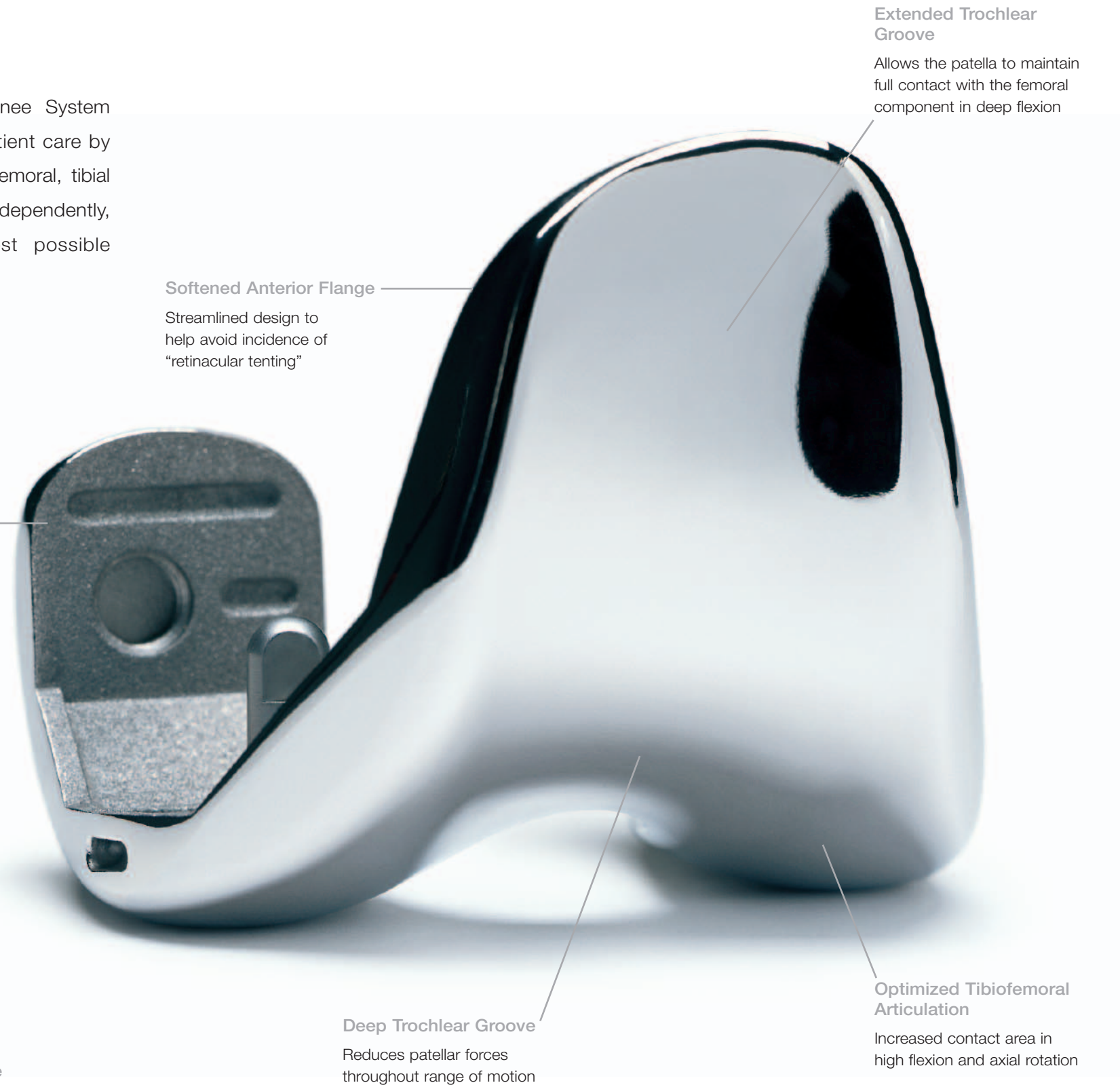
Vanguard® Complete
Knee System
Cruciate Retaining

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Vanguard® Complete Knee System

Cruciate Retaining

The Vanguard® Complete Knee System provides for personalized patient care by allowing a custom-fit of the femoral, tibial and patellar components independently, thus addressing the largest possible percentage of the population.



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

*within 0-15° of Q-angle



Additional Features of the Vanguard® CR Design:

- 10 femoral components that grow anterior/posterior on average by 2.4mm 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

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 resistance¹⁻⁴ and a proven locking mechanism shown to be "the most stable overall."^{7,8} Biomet® tibial trays are available with Interlok® finish for cemented applications or Regenerex® Porous Titanium Construct to enhance bone fixation in cementless applications.

