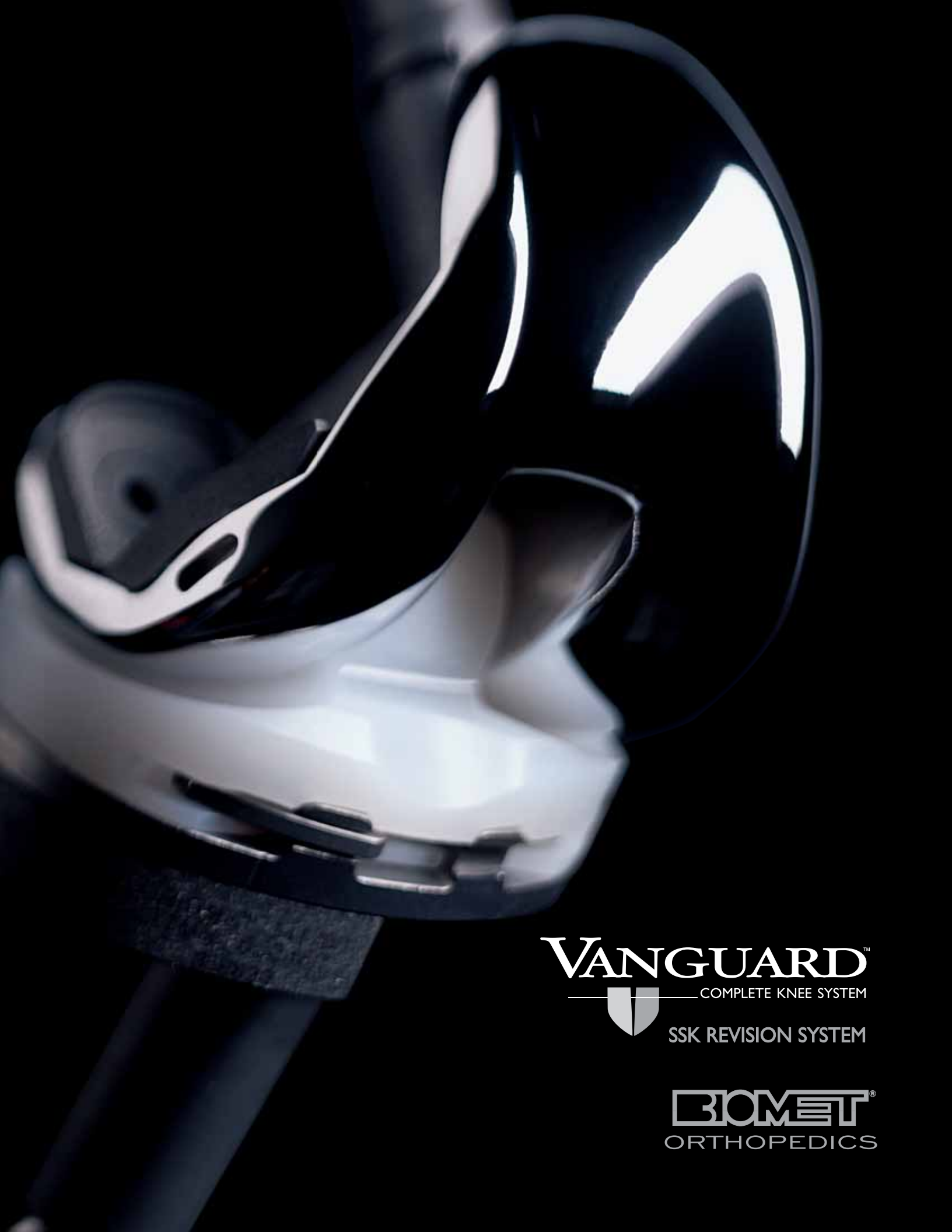

VANGUARD™

COMPLETE KNEE SYSTEM

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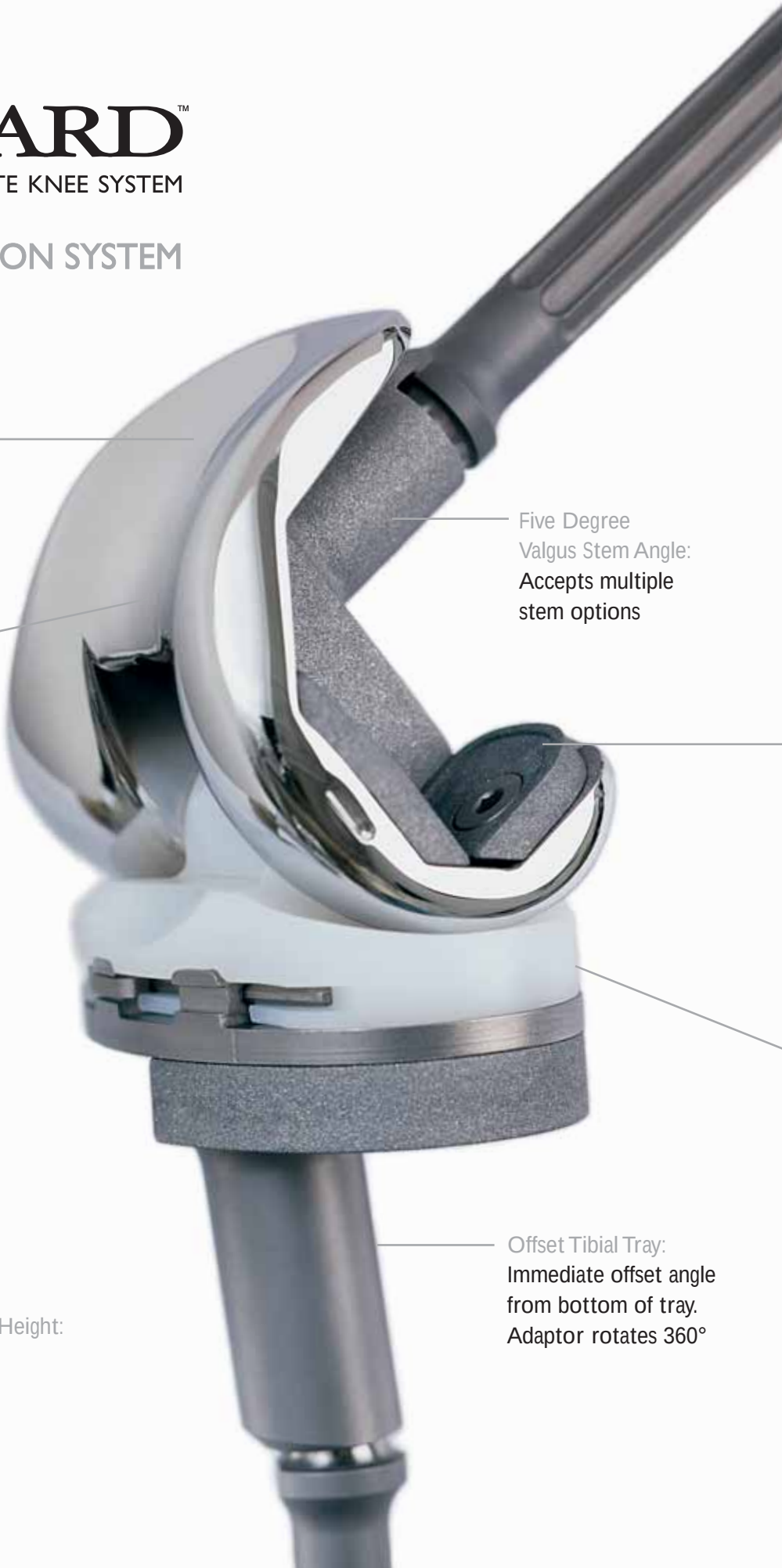
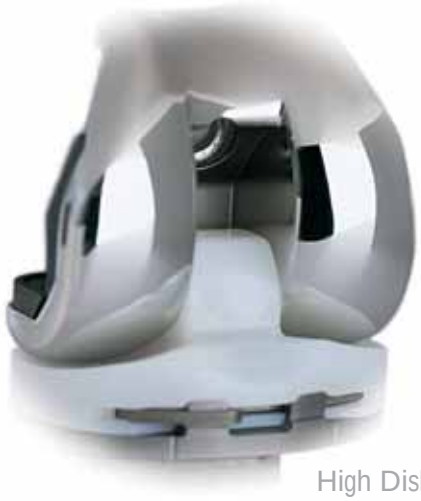


Deep Trochlear Groove:
Designed to reduce patella forces

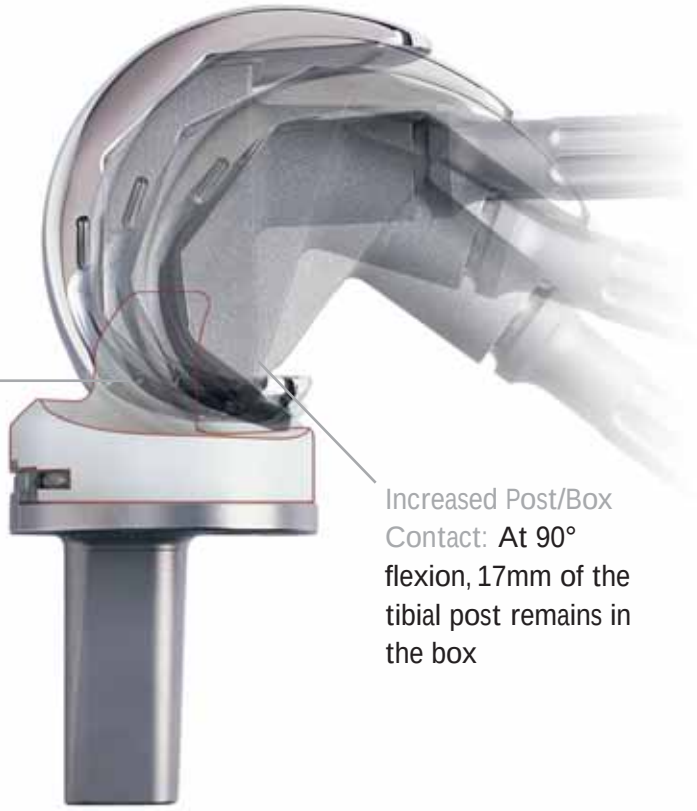
Extended Trochlear Groove:
Patella maintains full contact through deep flexion

Five Degree Valgus Stem Angle:
Accepts multiple stem options



High Dislocation Height:
Up to 23mm

Offset Tibial Tray:
Immediate offset angle from bottom of tray. Adaptor rotates 360°

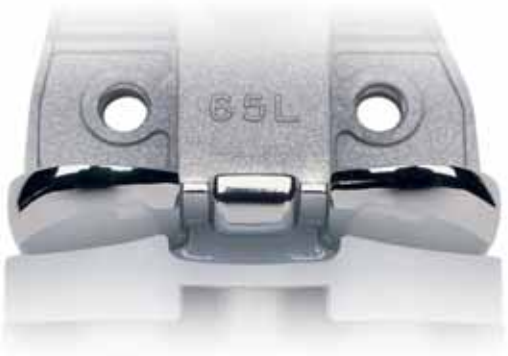


Swept Back Tibial Post: Stability and constraint in deep flexion

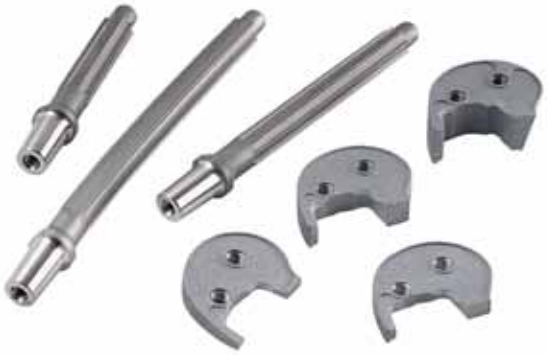
Increased Post/Box Contact: At 90° flexion, 17mm of the tibial post remains in the box

Femoral Augmentation: Posterior and distal blocks

Extended Posterior Cam: Maintains low contact point in deep flexion and increases hop height



Stability: +/-1° varus/valgus lift-off and +/-.5° rotational constraint



Titanium Stem Extensions: Interchangeable between femoral and tibial components

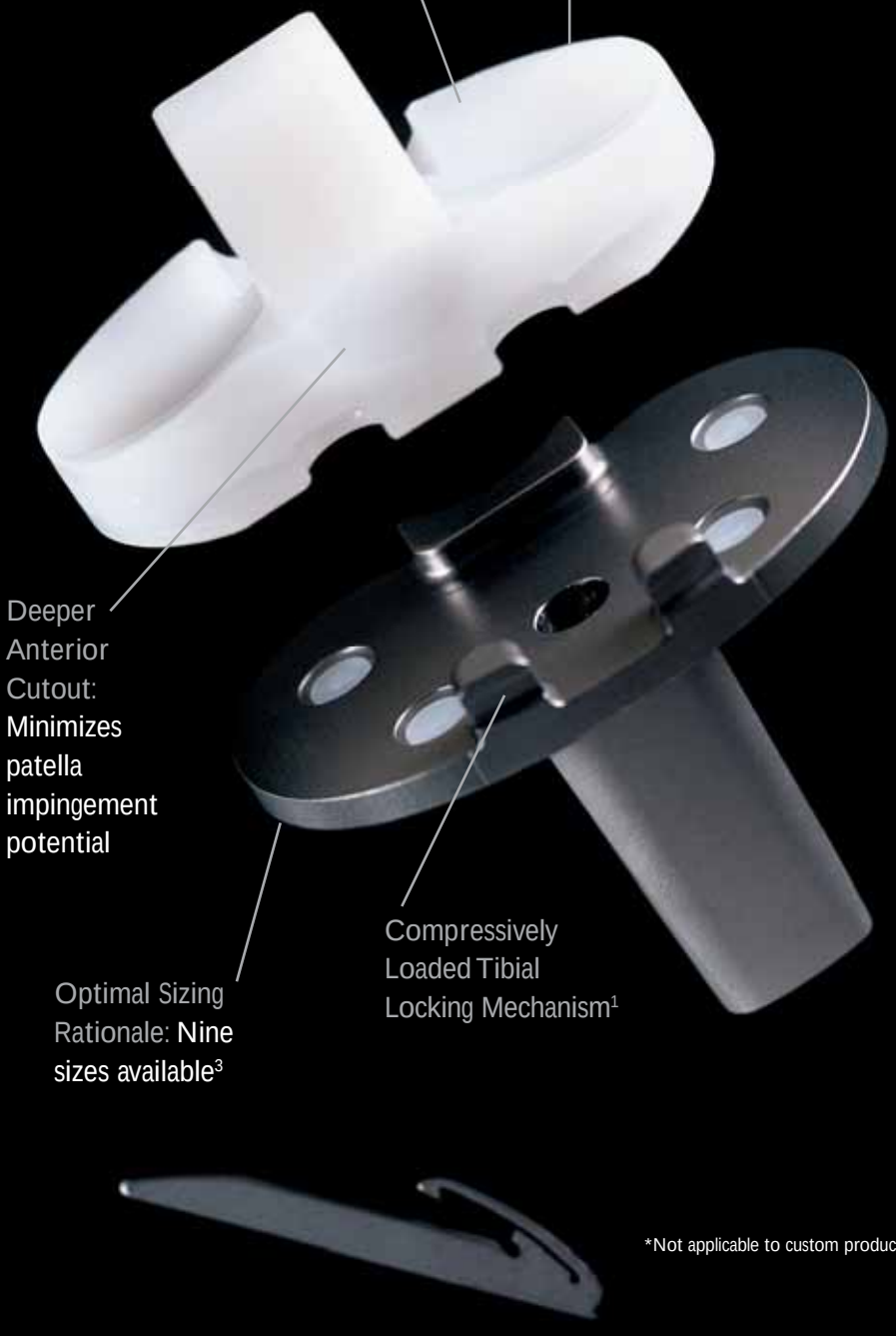
Tibial Augmentation: Medial/lateral augmentation spacers mechanically attach to the tibial tray

VANGUARD™ TIBIAL BEARINGS* are Direct Compression Molded to minimize the potential for wear, oxidative breakdown and delamination.[4–6]

ArCom®
PROCESSED POLYETHYLENE

Direct Compression Molded ArCom® Polyethylene: Provides proven wear resistance[2]

Interchangeable Constraint Bearing Options: SSK PS or SSK Constrained Bearings

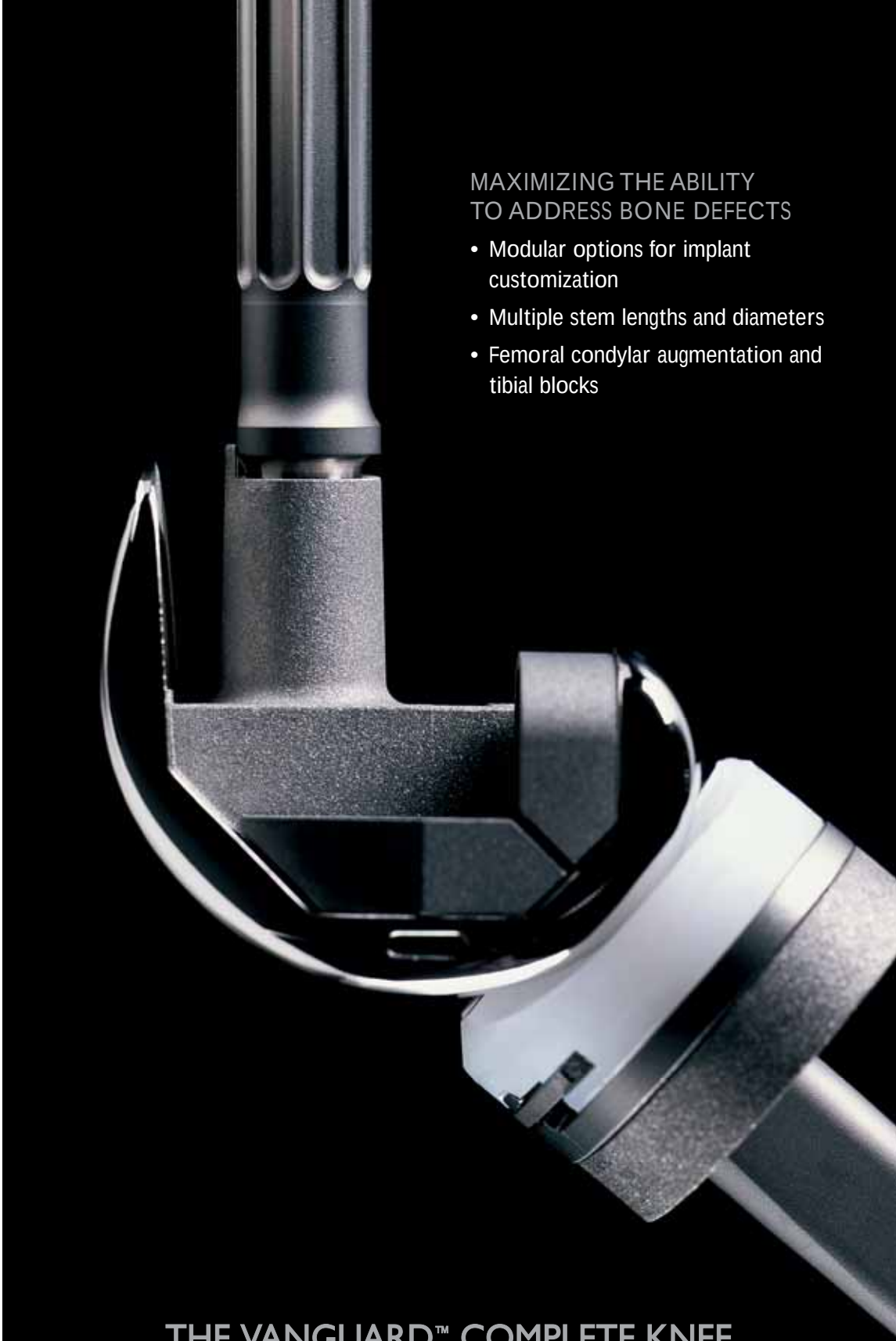


Deeper Anterior Cutout: Minimizes patella impingement potential

Compressively Loaded Tibial Locking Mechanism[1]

Optimal Sizing Rationale: Nine sizes available[3]

*Not applicable to custom products.



MAXIMIZING THE ABILITY TO ADDRESS BONE DEFECTS

- Modular options for implant customization
- Multiple stem lengths and diameters
- Femoral condylar augmentation and tibial blocks

THE VANGUARD™ COMPLETE KNEE SYSTEM WAS ENGINEERED TO FIT THE ENTIRE POPULATION, REGARDLESS OF RACE, GENDER OR STATURE.

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References

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2. Meding, J. *et al.* Total Knee Arthroplasty with 4.4mm of Tibial Polyethylene. *Clinical Orthopaedics and Related Research.* 388: 112–117, 2001.

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4. Furman, B.D. *et al.* Effect of Resin Type and Manufacturing Method on UHMWPE Oxidation and Quality at Long Aging and Implant Times. 43rd Annual Meeting. Orthopaedic Research Society. San Francisco, CA. Feb. 9–13, 2001.

5. Beading, L. Direct Molded Components Shown to Resist Oxidation. *Orthopedics Today*. 17(4): 1997.

6. Beading, L. Polyethylene-Related Failure: A Challenge to TKA. *Orthopedics Today*. 16–21, July, 1996.

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