



VANGUARD[™]
COMPLETE KNEE SYSTEM



SSK REVISION SYSTEM

BIOMET[®]
ORTHOPEDICS

VANGUARD™



COMPLETE KNEE SYSTEM

SSK REVISION SYSTEM

Deep Trochlear Groove:
Designed to reduce
patella forces

Extended Trochlear Groove:
Patella maintains full contact
through deep flexion

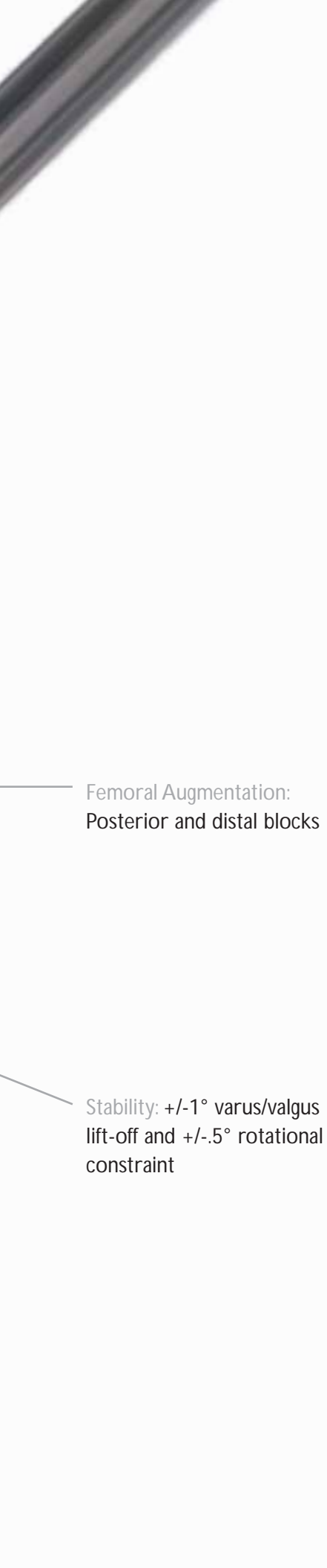
Five Degree
Valgus Stem Angle:
Accepts multiple
stem options



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 +/-0.5° rotational
constraint



Titanium Stem Extensions:
Interchangeable between
femoral and tibial components

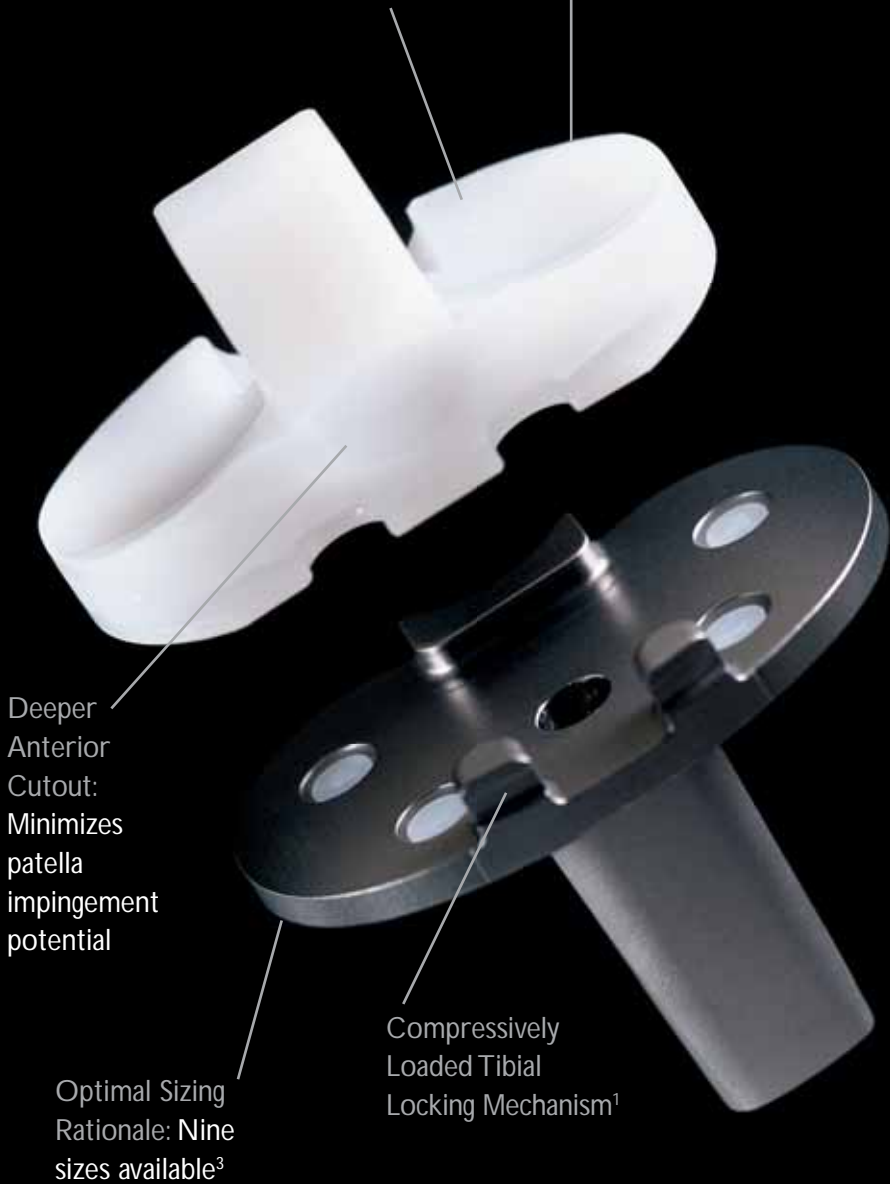
Tibial Augmentation:
Medial/lateral augmentation
spacers mechanically attach
to the tibial tray

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

ArCom®
PROCESSED POLYETHYLENE

Interchangeable Constraint
Bearing Options: SSK PS
or SSK Constrained Bearings

Direct Compression
Molded ArCom® Polyethylene:
Provides proven wear
resistance²




Deeper
Anterior
Cutout:
Minimizes
patella
impingement
potential

Optimal Sizing
Rationale: Nine
sizes available³

Compressively
Loaded Tibial
Locking Mechanism¹

*Not applicable to custom products.

A close-up, high-contrast photograph of the Vanguard Complete Knee System components. The image shows a femoral condylar augmentation and a tibial block, both with a textured, porous surface. The components are set against a dark background, with a bright light source from the left creating sharp highlights and deep shadows, emphasizing the metallic texture and complex geometry of the implants.

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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COMPLETE KNEE SYSTEM



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References

1. Parks, N.L. et al. Modular Tibial Insert Micromotion. *Clinical Orthopaedics and Related Research*. 356: 10–15, 1998.
2. Meding, J. et al. Total Knee Arthroplasty with 4.4mm of Tibial Polyethylene. *Clinical Orthopaedics and Related Research*. 388: 112–117, 2001.
3. Incavo, S. et al. Tibial Plateau Coverage in Total Knee Arthroplasty. *Clinical Orthopaedics and Related Research*. 299: 81–85, 1994.
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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Driven By Engineering

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