

# VEGA System<sup>®</sup> Knee

Playing a pivotal role in knee replacement



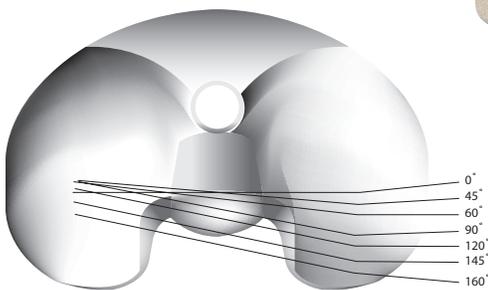
# VEGA System<sup>®</sup> Knee

Playing a pivotal role in knee replacement

The VEGA System's modern posterior stabilized design works together with the unique seven layer Advanced Surface Technology surface to deliver natural kinematics, reduced wear rates and stability through flexion.<sup>1</sup>

## Natural Rotation

Designed to mimic natural knee kinematics by enabling a physiological pivot around the medial condyle. The patented, asymmetric post-cam design enables a medial pivot motion to mimic the natural rotation of a healthy knee and facilitates a larger range of motion and optimized surface contact. This pivotal motion helps avoid excessive loading on posterior condyle edges and reduce stresses on the bearing surfaces.

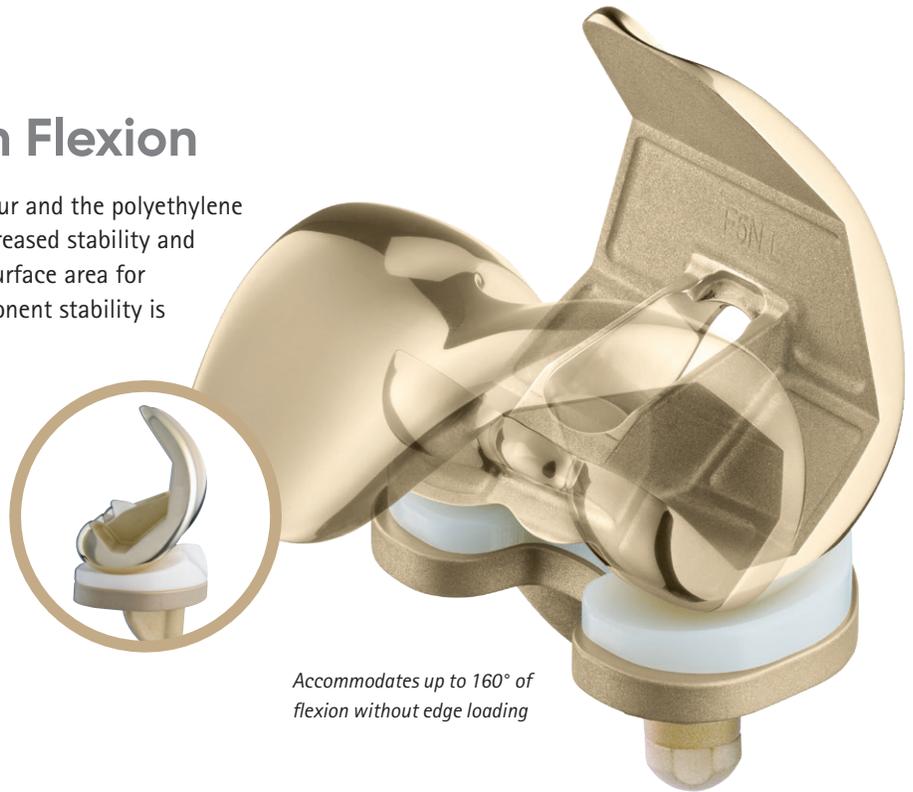


*Posterior femoral condyle and polyethylene articulation at varying degrees of flexion. The VEGA System's unique design of these articulating surfaces facilitates natural kinematics and prevents posterior condyle floating.*



# Stability through Flexion

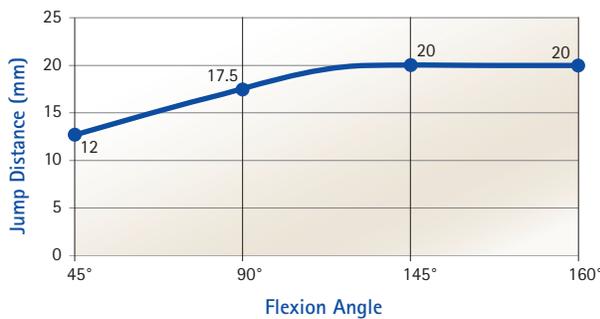
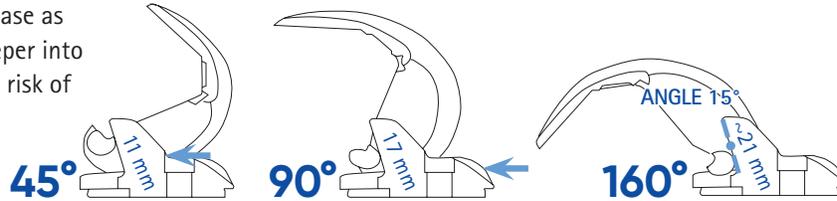
The **ML congruency** between the femur and the polyethylene articulating surface contributes to increased stability and better load distribution over a wider surface area for reduced PE wear. Femoral-tibial component stability is experienced, even in deep flexion.



Accommodates up to 160° of flexion without edge loading

## Flexion

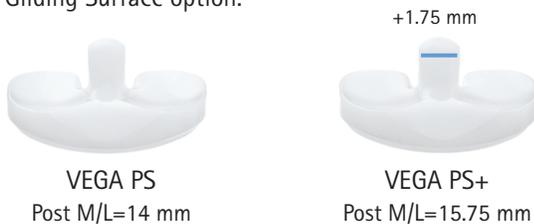
Jump distances increase as the femur moves deeper into flexion to reduce the risk of subluxation.



Jump distance increases throughout flexion for each femoral component size. The highest average jump distance is noted for most every size femur at 145 and 160 degrees of flexion where the risk of subluxation or dislocation is high.

## Stability

Further stability is delivered with the PS+ Polyethylene Gliding Surface option.



**Tibial Design** – Four-point locking mechanism and double headed locking screw provide greater stability between tibia baseplate and polyethylene components.

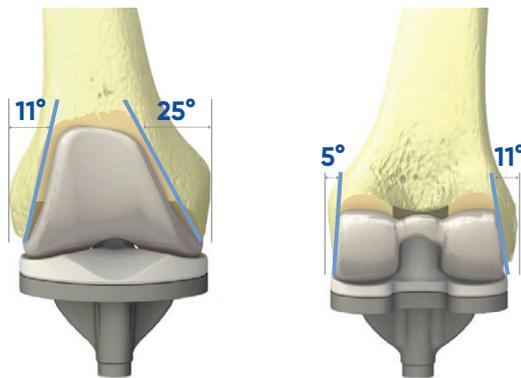


## Soft-Tissue-Friendly and Bone-Sparing Design

The VEGA System Knee features smoother transition radii at the edges of the anterior flange, the intercondylar notch and the femoral box, supporting a more tissue-friendly design.

### Narrowing

Anterior and posterior narrowing of the femoral component reduces soft tissue interference, helping to avoid irritation of the surrounding soft tissues.



Anterior Narrowing

Posterior Narrowing

### Inclination

The 55° inclination of the post and anterior cutout in the PE helps to avoid conflict with the patella during flexion and the extensor mechanism, resulting in a smoother flexion-extension motion for enhanced kinematics.



Inclination 55°



Anterior cut-out



Avoid conflicts with extensor mechanism

## Portfolio at a glance

Built to accommodate your patients



### VEGA PS Femurs

13 sizes

*Standard and Narrow*



### PS and PS+ Inserts

6 sizes

*10 to 20 mm (step 2 mm)*



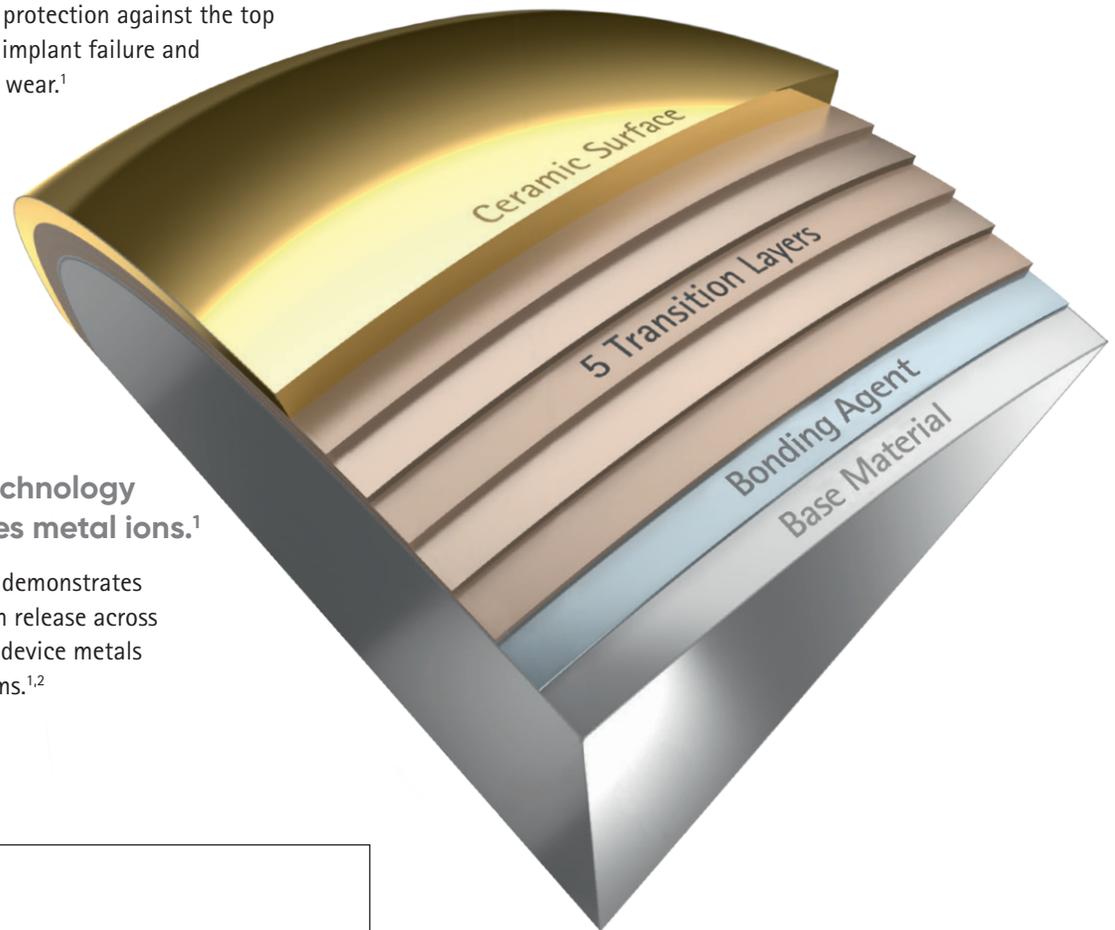
### VEGA Tibia Plateau

11 sizes

*Standard and Plus*

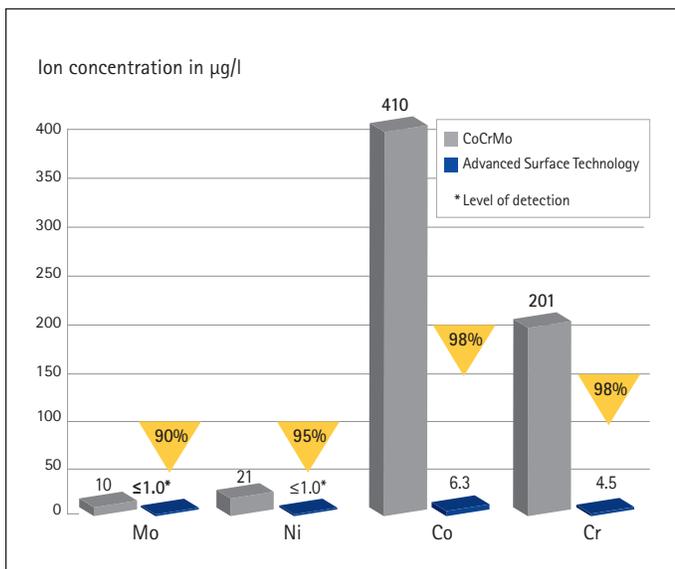
## Advanced Surface Technology

The VEGA System features the patented seven-layer Advanced Surface Technology, offering enhanced protection against the top prostheses-related reasons for implant failure and revision: metal ion release and wear.<sup>1</sup>



### Advanced Surface Technology significantly decreases metal ions.<sup>1</sup>

Advanced Surface Technology demonstrates significantly reduced metal ion release across the most concerning of metal device metals compared with CoCrMo systems.<sup>1,2</sup>



Advanced Surface Technology acts as a potential barrier to the release of metal ions.<sup>1</sup>

1 The results of in vitro wear simulation testing have not been proven to quantitatively predict clinical performance.  
 2 Reich J. et al. (2010). Preclinical Evaluation of Coated Knee Implants for Allergic Patients. Der Orthopade, 39(5). Doi:10.1007/s00132-1581-9.



Through collaborative  
excellence we will improve the  
quality of a patient's life and  
meet the needs of the changing  
healthcare environment.

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