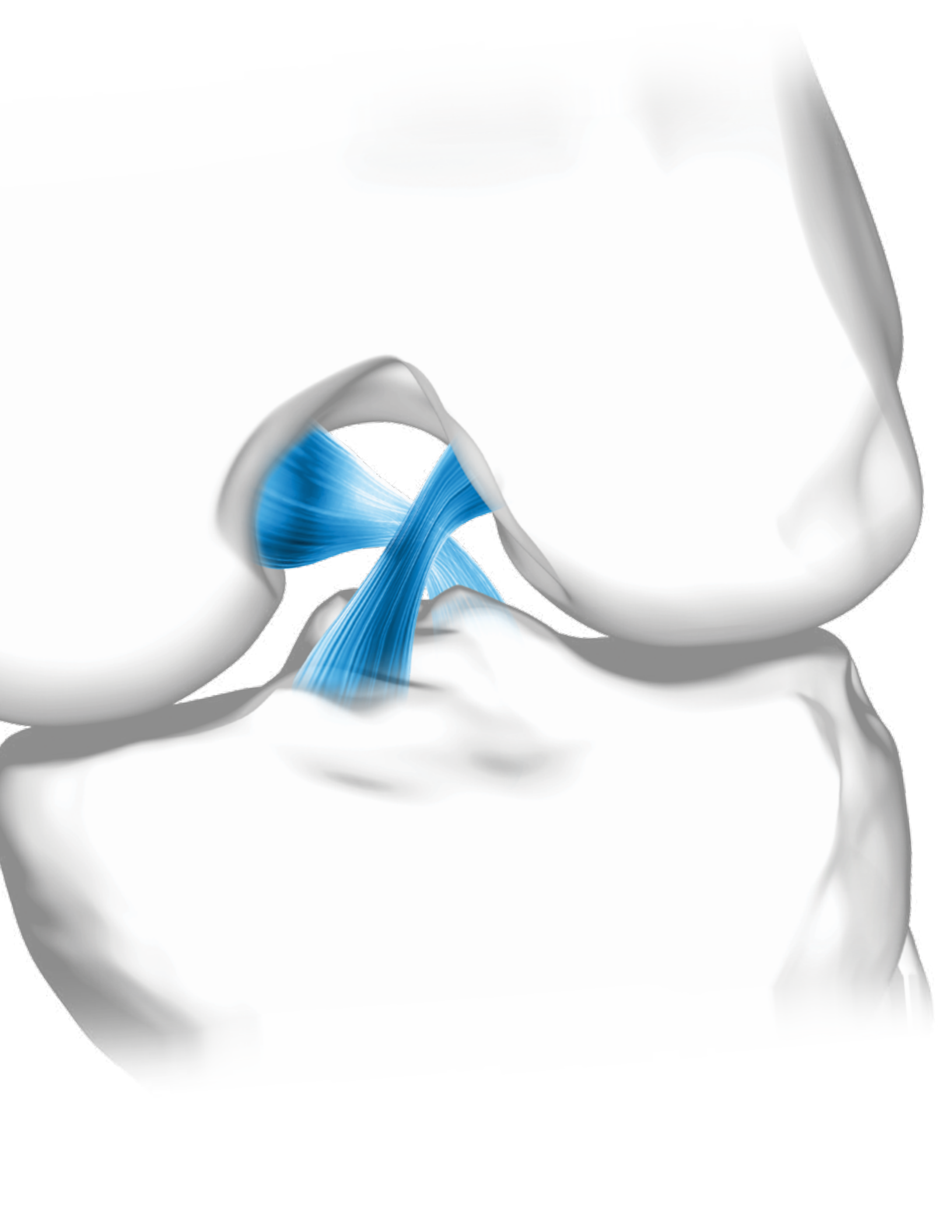


Vanguard XP[®] Total Knee System





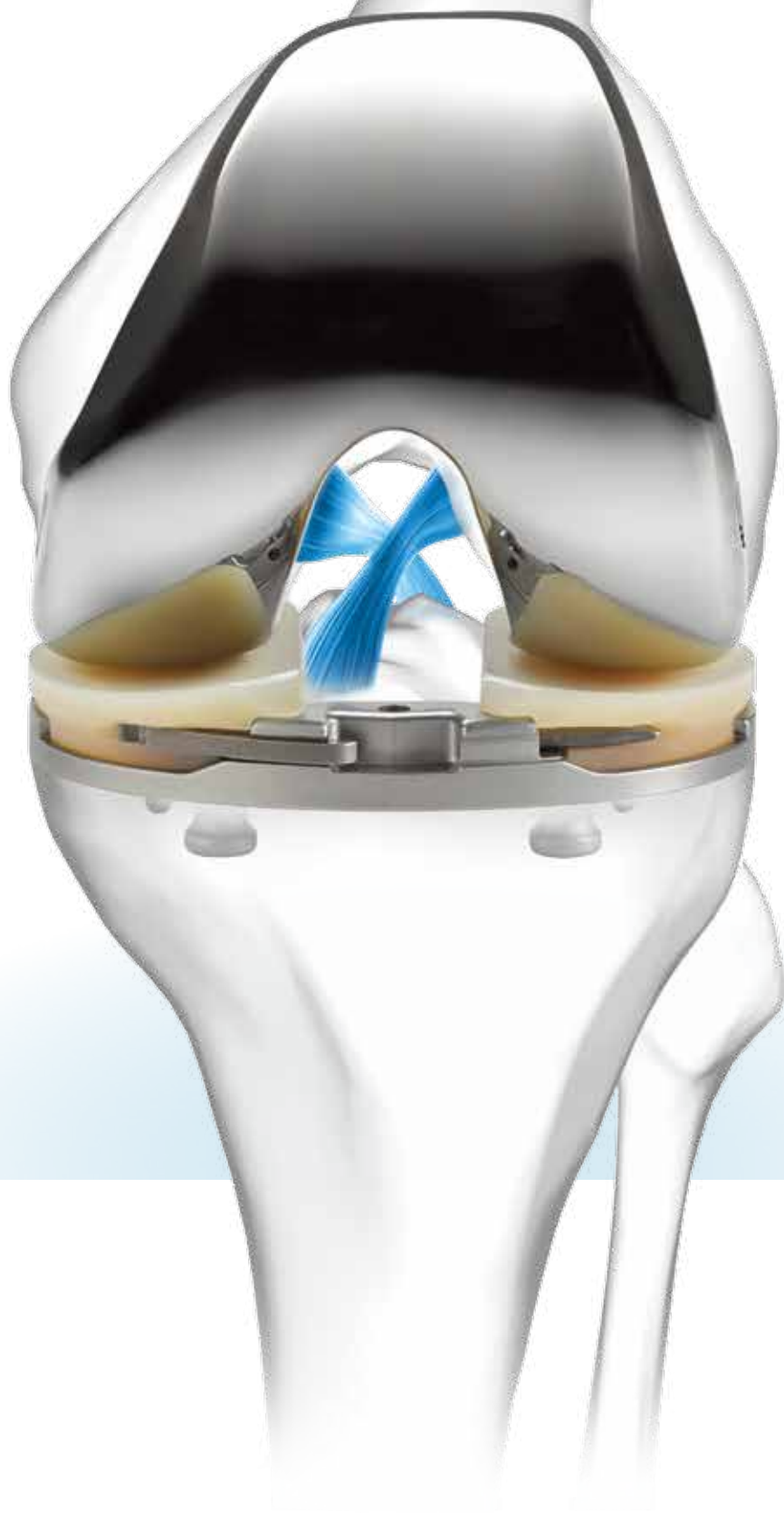
Why remove **healthy** ligaments?



DISCOVER NATURE AT WORK

Bicruciate preserving total knee arthroplasty

The Vanguard XP Total Knee System is a cruciate retaining design allowing healthy anterior cruciate ligaments (ACL) and healthy posterior cruciate ligaments (PCL) to be preserved while incorporating geometry to accommodate and enable the natural function of the knee's ligaments.

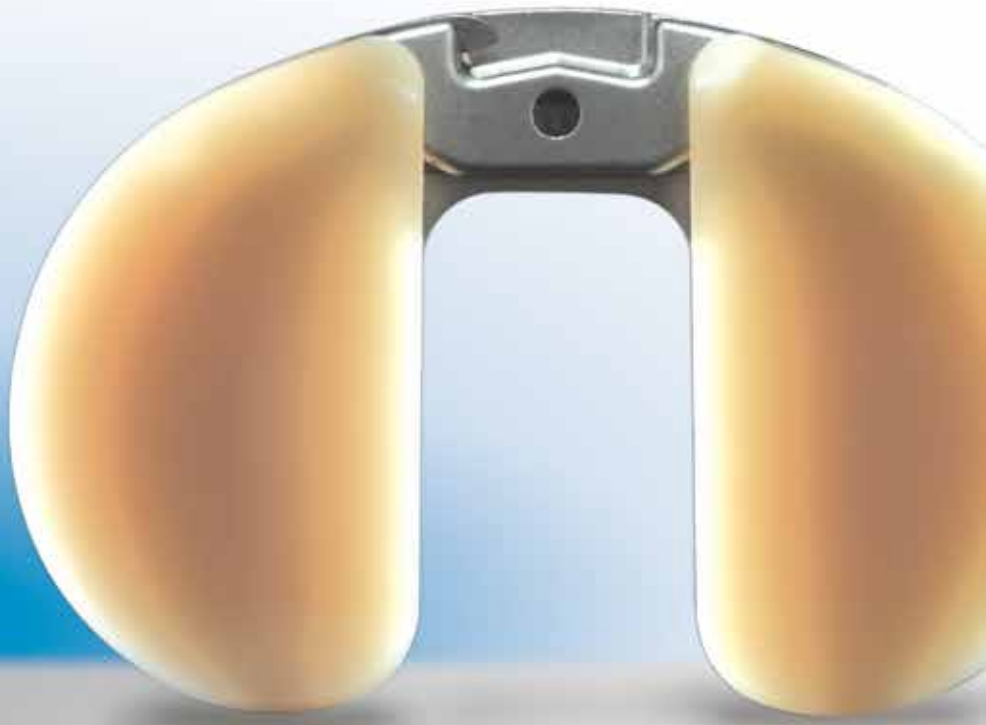


ATTENTION TO **DETAIL**

Vanguard XP brings out the beauty from within

- The Vanguard XP Tibial Tray is a U-shaped design, now giving TKA surgeons the option of preserving healthy anterior and posterior cruciate ligaments.
- The asymmetric Vanguard XP Femoral Component supports physiologic motion.
- The medial and lateral bearings are designed independently, allowing ACL/PCL interaction to drive knee motion.



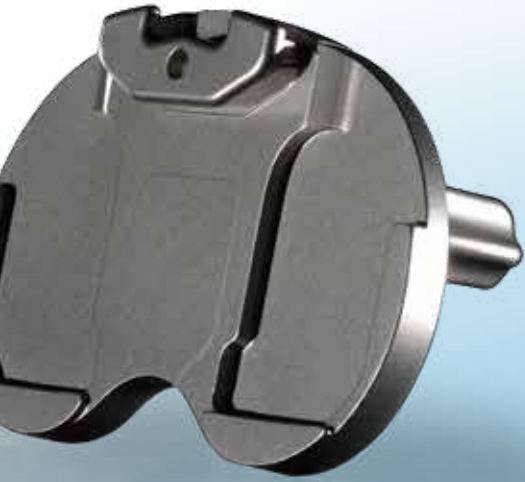


FORGED FROM **STRENGTH**

The embodiment of Zimmer Biomet's commitment to durability

- Built with forged cobalt chrome and reinforced with a proprietary locking mechanism,** the Vanguard XP U-shaped Tibial Tray is designed for strength.
- The Vanguard XP Knee utilizes E1® Antioxidant Infused Bearing Technology - a technology that has shown to prevent oxidative degradation of the polyethylene.¹
- As part of the Vanguard Knee System, the Vanguard XP Knee's versatile design allows for intraoperative flexibility, giving the option to:
 - Utilize the U-shaped tray for an ACL/PCL preserving total knee.
 - Utilize a cruciate retaining tibial tray for a PCL retaining total knee.
 - Utilize anterior stabilized bearings when the PCL is absent.





References

1. <http://www.zimmerbiomet.com/content/dam/zimmer-biomet/medical-professionals/hip/e1-antioxidant-infused-technology/fda-cleared-claims-for-e1-antioxidant-infused-technology.pdf>
2. Meding, et al: "Minimum 10-year Follow-Up of a Straight-Stemmed, Plasma-Sprayed, Titanium Alloy, Uncemented Femoral Component." AAOS Poster #PE396, March 2001.
3. Beading, L.: "Polyethylene-Related Failure: A Challenge to TKA." Orthopedics Today, 16 – 21, 1996.

* A collaborative partnership with Materialise N.V.

** Vanguard XP Knee testing data on file. Lab testing is not necessarily indicative of clinical performance

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