The ATTUNE® Knee System is designed to provide improved functional outcomes and patient satisfaction, implant durability, and OR efficiency for all stakeholders.

The ATTUNE Cementless Knee utilizes patented technologies of the ATTUNE Knee System and Rotating Platform option, with the added benefit of biologic fixation with POROCOAT™ Porous Coating.

1. ATTUNE GRADIUS™ Curve
   Provides stability through range of motion.¹ ³

2. SOFCAM™ Contact
   Smooth engagement while minimizing stresses to the tibial spine for posterior stabilizing construct.⁴ ⁵

3. GLIDERIGHT™ Articulation
   Improved patello-femoral kinematics.⁶ ¹⁰

4. Rotating Platform
   Based on our clinical heritage, the central design of the ATTUNE Rotating Platform Tibial Base enables the tibial insert to rotate as the knee flexes, which allows for a more natural motion and may also reduce the stress and wear on the implant.¹¹ ¹⁴

5. POROCOAT Porous Coating
   POROCOAT Porous Coating has shown positive performance in stability and fixation in DePuy Synthes hip, knee and shoulder total joint replacements.¹⁵ ¹⁷
THE SCIENCE BEHIND THE ATTUNE® CEMENTLESS KNEE SYSTEM

In developing the ATTUNE® Cementless Knee, DePuy Synthes drew upon the successful clinical history of its Cementless and Rotating Platform Technologies, including the LCS COMPLETE™ Cementless Knee System which has implant survivorship of 97-98% at 18 years with any revision for any mechanical reason or poor clinical score as the end point.\textsuperscript{18,19} All of the bone interfacing surfaces of the ATTUNE Cementless Femoral Component are coated with POROCOAT™ Porous Coating designed to enhance biologic fixation of the implant to bone.

ROTATING PLATFORM TIBIAL COMPONENT

The ATTUNE Cementless RP Tibial Base features four peripheral porous coated pegs around a proximally coated central cone. The pegs are designed to increase the press-fit surface area and stability of the component. The central cone allows for compatibility with the ATTUNE RP Tibial Inserts.

The fully coated pegs move outward from the central cone as the size of the tibial base increases. This is designed to ensure that rotational and axial support of the tray is increased throughout the size range without potential impingement of the inner cortex of the tibia.
The INTUITION™ Instruments combines the surgical process with intuitive and efficient instruments that enable the surgeon to balance the soft tissues and precisely control the implant position and fit for each patient. One full tray and two half trays have been added to the INTUITION Instruments to accommodate the cementless system. These include Cementless Tibial Preparation, Cementless Impaction, and Femoral Cut Assessment.

Less micromotion

Overall, micromotions of the ATTUNE Knee System were significantly lower than the LCS COMPLETE™ Knee System under both loading conditions (P<0.001).²⁰

CR and PS Femoral Components

The ATTUNE Cementless Knee will be available in Cruciate Retaining or Cruciate Sacrificing, and Posterior Stabilized constructs. Similar to the LCS COMPLETE Cementless Knee, the femoral lugs are porous coated, which increases the amount of stability of the femoral component and results in greater dissociation strength and reduced micromotion.²⁰

The inner A/P femoral surfaces have been designed to ensure that the anterior, posterior, and distal faces achieve full seating onto the bone. The anterior and posterior chamfers have the addition of a small elevated rail on the medial and lateral edges that are designed to provide peripheral fixation in the chamfer regions without preventing distal seating of the femoral component.

INTUITION™ INSTRUMENTS

The INTUITION™ Instruments combines the surgical process with intuitive and efficient instruments that enable the surgeon to balance the soft tissues and precisely control the implant position and fit for each patient. One full tray and two half trays have been added to the INTUITION Instruments to accommodate the cementless system. These include Cementless Tibial Preparation, Cementless Impaction, and Femoral Cut Assessment.

Precise Control

Intuitive instrumentation combined with a comprehensive range of sizes designed to give you precise control over the implant fit and position.

Design Clarity

Reduced learning curve, more certainty. Design features that include red actuators, high-contrast markings and quick set/release functions make the INTUITION Instruments clear and easy to use from the moment you pick them up.

Efficient Path

Single layer instrument cases, lightweight, and fewer instruments compared to commercially available instrumentation are just a few efficiencies that reduce your effort from start to finish.
References:

1. Fitzpatrick CK, Clary CW, Wright AP, Komosa MC, Maletsky LP. The effect of patella medialization on patellofemoral kinematics after total knee replacement. 11th Congress of the European Society of Biomechanics (ESB) 2012. 29a: 1262.


GROWING OUR PORTFOLIO TO MEET OUR PATIENT AND SURGEON NEEDS

The ATTUNE™ Knee System continues to grow its portfolio to provide surgeons with a broad range of solutions for their patients.

Improved patient reported outcome measures compared to other leading knee systems that were tested.21

Implant survivorship estimate is 97.2% at five years in National Joint Registry for England, Wales, Northern Ireland and the Isle of Man Implant Summary Report.22

39% lower odds of patient discharge to a skilled nursing facility for ATTUNE Knee patients vs patients who received TKA with a Triathlon™ Knee, according to the results of a large U.S. hospital administrative database review.23