BALANCING THE PATIENT NEED FOR FREEDOM OF MOVEMENT AND JOINT STABILITY

We began the ATTUNE™ project with an important focus in mind: to improve patient performance. Data has shown that 10-20% of patients are not satisfied after knee surgery because they haven’t been able to achieve the right balance of motion and stability.¹

Our goal was to design a system that would help to provide better performance for you as a surgeon, for your hospital and for your patients.

Working in collaboration with independent scientists, universities, engineers and opinion leaders from all over the world, the ATTUNE Knee System is the result of the largest-ever research and development program from DePuy Synthes Joint Reconstruction. Novel testing protocols and methods were used during development. Each aspect of knee replacement design and surgical process was evaluated. And it was this rigorous process that has produced patented technologies to address the patient need for stability and freedom of movement.

The system encompasses implants and surgical instrumentation designed to work in harmony with the patient’s anatomy to deliver stability and motion. This is what led to the name ATTUNE Knee System.
Developed in conjunction with a world class team of orthopaedic surgeons and research facilities. Extensive studies highlighted how implant shape affected patient performance and satisfaction. Advanced testing systems and computational models were developed to help optimize kinematics. New proprietary technologies were created to address the patient need for stability and motion.

What makes the development of the ATTUNE™ Knee System different?
The ATTUNE Knee System delivers breakthrough discoveries that make the ATTUNE Knee an advancement for you, your patients and the hospital that you work with. Each aspect of these significant technologies was deliberately designed to provide function for you in the OR and for your patient after surgery.
The patented ATTUNE GRADIUS™ Curve is a gradually reducing femoral radius designed to provide a smooth transition from stability to rotational freedom through a patient’s range of motion.

The GLIDERIGHT™ Articulation encompasses a trochlear groove designed to accommodate patient variation and soft tissue interaction, and patella components designed to optimize patella tracking while maintaining bone coverage.

The proprietary s-curve design of the SOFCAM™ Contact provides a smooth engagement for gradual femoral roll-back and stability in flexion, while reducing the stresses transferred to the tibial spine.

The LOGICLOCK™ Tibial Base has a patented central locking design that provides the architecture for the system to optimize kinematics, while reducing backside micromotion to the lowest reported levels in the industry.
Precise control

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

The INTUITION™ Instrumentation combines the surgical process with intuitive and efficient instruments that enables you to balance the soft tissue and precisely control the implant position and fit for each patient.

Precise Control

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Efficient Path

Single layer instrument cases, lightweight, and fewer instruments are just a few efficiencies that reduce your effort from start to finish.

Designed Clarity

Reduced learning curve, more certainty. Design features that include red actuators, high-contrast markings and quick set/release functions make ATTUNE INTUITION Instruments clear and easy to use from the moment you pick them up.
A FULLY INTEGRATED TOTAL KNEE SYSTEM
The ATTUNE Knee System implants and ATTUNE INTUITION Instruments were developed together to allow you the flexibility to fine tune the placement of each component. This includes the opportunity for flexion and extension gap balancing, maintaining adequate posterior condylar offset, and maintaining proper extensor mechanism tension, all of which contribute to delivering the stability and motion of the ATTUNE Knee System.
DESIGNED TO:

FEEL RIGHT FOR THE SURGEON
You know when something just feels right. This is the feedback we are hearing from surgeons using the ATTUNE Knee System. Implants and instruments combine to improve the feel of the knee during surgery, taking total knee arthroplasty to a whole new level.

FEEL RIGHT FOR THE PATIENT
Advancing patient performance was always our core focus. After six years of intense research and development, and implantations in thousands of patients, the integrated ATTUNE Knee System is now balancing the need for motion and stability to help deliver improved patient performance.
References:
