BRINGING PATENTED TECHNOLOGIES TO A SEAMLESS SYSTEM, FROM PRIMARY THROUGH REVISION

The ATTUNE® Revision Rotating Platform Knee System is a comprehensive system that is designed to enable you to effectively manage a broad range of complex primary and revision knee procedures.

ATTUNE Primary Knee System
Breakthrough discoveries and proprietary technologies, clinically designed to address patient needs for stability and motion

1
The Revision Femoral Component is compatible with the ATTUNE Revision Rotating Platform Tibial Insert and the ATTUNE Posterior Stabilized (PS) Rotating Platform Insert.

ATTUNE Revision Rotating Platform Knee System

Comprehensive range of solutions that are designed to address the main challenges presented in complex primary and revision surgery: fixation\(^2\), instability\(^2\), and OR efficiency\(^1\).
ADDRESSING FIXATION AND PATIENT FIT
Bone Defect Compensation
Tibial and Femoral Metaphyseal Sleeves feature a stepped design to compensate for substantial bone defects, compressively load the bone and provide a solid foundation for implant fixation.

360° Offset Capability
Offset options of 2, 4, and 6 mm with orientation available from 0° to 360° are designed to increase patient fit in femoral anatomical variations, as well as adjustment for soft-tissue deficiencies.

Rotational Freedom
The ATTUNE Revision Cam/Spine interface is designed to provide +/- 1.25° varus/valgus constraint while allowing internal/external rotational freedom through the Rotating Platform (RP) design during the full range of motion.

Improved Stem Geometry
The Press-Fit Stems are designed to provide rotational stability and create a balance between stiffness and flexibility to reduce stress associated with end-of-stem pain compared to prior designs supported in this study.
Closing The Flexion Gap

The ATTUNE Revision Femoral Boss is designed to best fit a patient’s natural anatomy through optimal placement in terms of flexion gap balance, bone coverage and valgus angle. The ATTUNE Revision Femoral Component has 1 mm additional posterior thickness, the same as the ATTUNE PS Femoral Component, to help close the flexion gap.

REDUCING INSTABILITY THROUGH IMPROVED KINEMATICS

Femoral-to-Insert Size Matching

The Rotating Platform technology was developed to enable the Femoral Component and Tibial Insert to match size-to-size every time, allowing for optimization of the tibiofemoral contact mechanics and stability throughout the range of motion. Additionally, it is designed to accommodate 2-up and 2-down sizing between the Tibial Insert and Tibial Base.\textsuperscript{4,5,6}
Enhanced Tibiofemoral Conformity

ATTUNE GRADIUS™ Curve technology is designed to allow for enhanced tibiofemoral conformity where the gradually reducing femoral radius provides a smooth transition through the gait cycle.\(^4,5,7\)

Femoral Offset

360° offset capability with 2, 4, and 6 mm options on the Femoral Component developed to enable balancing the flexion gap while providing fixation and improved patient fit.

<table>
<thead>
<tr>
<th>Tibio-femoral Sagittal Conformity (Conformity Ratio - (R_{\text{femoral}}/R_{\text{insert}}))</th>
<th>0°</th>
<th>30°</th>
<th>60°</th>
<th>90°</th>
<th>120°</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTUNE Revision Femoral Component with ATTUNE Revision RP Tibial Insert</td>
<td>0.99</td>
<td>0.81</td>
<td>0.66</td>
<td>0.45</td>
<td>0.38</td>
</tr>
<tr>
<td>ATTUNE Revision Femoral Component with ATTUNE Primary PS RP Tibial Insert</td>
<td>0.99</td>
<td>0.81</td>
<td>0.66</td>
<td>0.45</td>
<td>0.38</td>
</tr>
<tr>
<td>SIGMA® TC3 Femoral Component with TC3 RP Tibial Insert</td>
<td>0.99</td>
<td>0.99</td>
<td>0.61</td>
<td>0.61</td>
<td>0.61</td>
</tr>
<tr>
<td>SIGMA TC3 Femoral Component with Primary PS RP Tibial Insert</td>
<td>0.99</td>
<td>0.99</td>
<td>0.61</td>
<td>0.61</td>
<td>0.61</td>
</tr>
<tr>
<td>ATTUNE Primary PS Femoral Component with ATTUNE Primary PS RP Tibial Insert</td>
<td>0.99</td>
<td>0.81</td>
<td>0.66</td>
<td>0.45</td>
<td>0.38</td>
</tr>
</tbody>
</table>
Cut Through Trials
Cut Through Trials are designed to allow for efficiently setting rotation and balancing flexion and extension gaps in real-time. Cut Through Trials also have the ability to make Femoral Augment and Box resections and assemble the Augment and Box Trials without being removed.

Real-time Gap Assessment with Conventional Cut Guide
Conventional Cut Guides allow for assessing the anterior resection level, flexion gap, and M/L fit simultaneously by fine-tuning the femoral offset position in 360°. Additionally, Conventional Cut Guides replicate the distal thickness of the femoral implant, enabling assessment of extension gap before making bone resections.
Consistent Sleeve Preparation
Ream, broach, cut. Consistent Sleeve preparation promotes surgical technique efficiency. Both the Tibial and Femoral Sleeves are available in three options, cemented as well as Partially and Fully POROCOAT™ Porous Coated options. Additionally, each Femoral Sleeve distalizes the joint line by 4 mm, matching the size increments of the Femoral Distal Augments.

Smart Kitting
Instrumentation kitted for streamlined surgical workflows while enabling management of a broad range of complex primary and revision knee procedures.
CONTINUING TO BALANCE THE PATIENT NEED FOR FREEDOM OF MOVEMENT AND JOINT STABILITY

The ATTUNE Knee System is designed to provide patients with STABILITY IN MOTION™, offering a comprehensive range of implant solutions that address overall patient satisfaction. In a large multi-center study, the ATTUNE Primary Knee System demonstrated improved outcomes across a broad range of Patient Reported Outcome Measures (PROMs) compared to certain existing knee brands at one year minimum follow-up. The same technologies that have helped deliver these outcomes in primary are also incorporated in the ATTUNE Revision System. These features are designed to help address patients who are not satisfied after knee revision surgery, which ranges from 27% to 38%. 
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.\(^9\)

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.\(^4,5,7\)

The Revision Tibial Inserts and Revision Femoral Component have taken into account the advantages of **SOFCAM™ Contact** while considering the requirements for constraint in the Revision Construct throughout the range of motion. The AP kinematics for the Revision Femoral Component on the Revision Rotating Platform Insert are the same as the Revision Femoral Component on the Primary PS RP Insert.\(^10\) The controlled engagement of the Cam to the Insert Spine provides a smooth transition in tibio-femoral conformity through a patient's range of motion.

The **ATTUNE Revision Rotating Platform Tibial Base and Sleeve technologies** have been designed based on the successful clinical heritage of the legacy DePuy Synthes SIGMA TC3 RP and M.B.T. Revision Knee Systems.
References: