The power of simplicity
Consider the facts, and take a look at the future:

- **Revision TKA procedures are projected to double between now and 2015.**¹
- Restoration of a normal joint line in a balanced and stable joint is critical to achieving good outcomes in knee revisions.²
- Bone loss necessitates the use of intramedullary fixation in knee revisions resulting in the need to place the femoral and tibial components onto the metaphysis independent of the IM canal.³

**“Restoration of proper joint line position in revision total knee arthroplasty is essential in promoting recovery of function.”**²

- Approximately 60% of patients with failed or poorly functioning implants are metal hypersensitive compared to only 10% of the general population.⁴

This data suggests that the changing nature of the revision knee arthroplasty will require a higher level of functional outcomes for patients. The growing number of orthopaedic surgeons who will perform these procedures will require a system versatile enough to handle any contingency while being efficient and reproducible.
Versatility – Fit the implant to the patient...every time!

The LEGION™ Revision Knee System allows you to:
• obtain optimal stem fixation while balancing the flexion and extension gaps
• fit the implant to the patient, not the patient to the implant
• independently position the femoral and tibial components from the stem

Flexion and extension balancing

“Traditional” femoral placement

LEGION system femoral placement

Canal fixation and bone loss may dictate poor placement of components resulting in the inability to balance revision knees with the ideal sized femoral/tibial components. This results in sub-optimal patella function and joint instability.

Stability resulting from reestablishment of the joint line in relationship to the patella, combined with a well-balanced knee in both flexion and extension, can be accomplished with a broad assortment of femoral and tibial screw-on augments and the LEGION system’s versatile offset couplers.

“Traditional” Stem Placement

LEGION System Stem Placement

Cemented Cementless

Cemented Cementless

Stem fixation may be lost due to non-centered stem placement resulting in poor cement mantles or partial engagement of press-fit stems.

Stem location is not compromised in order to achieve optimal femoral/tibial placement. The LEGION system’s versatile offset couplers allow optimal placement of both femoral and tibial components while centering stems within the IM canal.
**Reduced wear and particle generation**
Aseptic loosening represents the most common cause of late failure of prosthetic implants. Particulate debris including bone and bone cement causes third-body wear of implants. These particles, combined with wear debris, are accepted as key mechanisms responsible for accelerated wear and osteolysis leading to early failure.

**OXINIUM™ Oxidized Zirconium Femorals**
- Abrasion-resistant advanced bearing material: Reduces wear by up to 96% in knees compared to CoCr in lab testing.
- Clinically proven material: up to 10 year follow-up data.
- Award-winning material: Only ASM award winning material in orthopaedics.

**VERILAST™ Technology**
OXINIUM oxidized material combined with highly cross-linked polyethylene is the only TKA-bearing coupling designed to provide outstanding wear performance, even under abrasive conditions.

**A solution for metal hypersensitivity**
- OXINIUM Oxidized Zirconium has undetectable nickel content and has been shown clinically as a viable option for patients with diagnosed metal hypersensitivity.

**PS High Flexion to Constrained**
- Allows surgeon to decide appropriate level of constraint
- Choose from PS High Flexion to Constrained
- Level of constraint is independent of femoral or stem selection needs

**Maximum nickel content**

<table>
<thead>
<tr>
<th>Material</th>
<th>Maximum percentage of nickel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not detectable</td>
<td>0.0%</td>
</tr>
<tr>
<td>Oxidized Zirconium (&lt;.0035)</td>
<td>0.1%</td>
</tr>
<tr>
<td>Titanium</td>
<td>0.5%</td>
</tr>
<tr>
<td>Cobalt Chrome</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

Maximum percentage of nickel
Ease – Designed by surgeons for surgeons

Designed to meet the needs of surgeons performing from one to one hundred knee revisions a year, the LEGION™ system instrumentation reduces surgical time and simplifies intraoperative decision-making.5

Refer to LEGION Revision Knee System surgical technique for additional information.

The technique is essentially the same for both the femur and the tibia, shortening the learning the curve and the procedure. The power of simplicity.

1. The block attaches rigidly to reamer for stability
2. Offset from canal is simply measured using the collets
3. Once the trial goes on, it never has to come off

Tibial overview

Femoral overview

Ream and resect
Size, assess offset and counterbore
Trial
Cut for wedges and punch for fins

Ream and resect
Size, assess offset and counterbore
Prepare for PS Box
Trial
References

11 2005 recipient of ASM International's annual Engineering Materials Achievement Award for, "the development of Oxinium Oxidized Zirconium for use as a joint replacement material to improve the performance and increase the service life of total joint replacement systems.