A design influenced by traditional stems with long-term clinical experience gives the VerSys Cemented Hip Prosthesis a solid foundation of success. Distinctive proximal and distal centralization options help maintain a uniform cement mantle. In addition, proximal macrotexturing enhances the cement/metal interface.\(^1\), \(^2\)

**SATIN FINISH** on forged, high-strength Cobalt Chrome enhances the cement/prosthesis interface.

**FLAT A/P SIDES** facilitate passage of the stem through the bow of the femoral canal and provide rotational control distally.

**DISTAL CENTRALIZER**, with a "5-point-star" design configuration, helps improve cortical diaphyseal contact and stem alignment compared with distal centralizers having four prongs.

**TAPERED DISTAL TIP DESIGN** helps reduce strains in the cement as compared to conventional stems with distal hole designs.\(^3\), \(^4\) The distal centralizer fits over the outside diameter of the stem tip.

**RANGE OF MOTION** Optimized neck geometries permit wide range of motion.
**Proximal Macrotexturing** enhances shear strength at the cement/metal interface.\(^1\)\(^2\)

**Satin Finish** on forged, high-strength Zimaloy® Cobalt-Chromium-Molybdenum Alloy is consistent with traditional stems and has proven successful in long-term clinical studies.\(^7\)

**Proximal Sleeve Centralizer** option is made of PMMA and designed to help the surgeon achieve a uniform cement mantle around the stem.

**Trapezoidal Shape** with broad medial and lateral surfaces minimizes compressive and tensile stresses.\(^5\)\(^6\)

**V-Lign® Instruments**, conveniently placed in one tray, are designed to help facilitate an easy and quick procedure.

**Progressive Neck Lengths** facilitate leg length and offset restoration while minimizing cement mantle microstrain.\(^8\)

**Extended Offsets** are possible because of a parallel medial neck shift that does not change the stem’s 135-degree neck angle or increase leg length.\(^2\)\(^9\)

**V-Lign Proximal Centralizer** helps achieve a uniform proximal cement mantle through accurate M/L and A/P alignment.\(^7\) V-shaped machined grooves in the calcar surface assist in positioning of the implant within the canal.

<table>
<thead>
<tr>
<th>Calculated Range of Motion*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head</td>
</tr>
<tr>
<td>-3.5 A/P</td>
</tr>
<tr>
<td>-3.5 M/L</td>
</tr>
<tr>
<td>0 A/P</td>
</tr>
<tr>
<td>0 M/L</td>
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<tr>
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<tr>
<td>+6° M/L</td>
</tr>
<tr>
<td>+10.5° A/P</td>
</tr>
<tr>
<td>+10.5° M/L</td>
</tr>
</tbody>
</table>

* Measured with 48mm Std. Trilogy Liner and 28mm Heads
\(^*\) Clinical range of motion will vary with different head/liner combinations.
\(^**\) Skirted head components

**Head VerSys Length Cemented**

Clinical range of motion will vary with different head/liner combinations.
VERSYS HIP SYSTEM *

Today’s surgeon faces the increasing challenge of meeting the clinical needs of patients with cost-efficient solutions. The VerSys Hip System addresses these concerns through common instrumentation, surgical innovation, and a wide range of implant options to meet virtually all patient needs.

For more information regarding the VerSys Cemented Hip Prosthesis, contact your Zimmer representative or visit us at www.zimmer.com

3 Estok DM, Ramamurthi BS, Weinberg EW, et al. A stem design changes to reduce peak cement strains around cemented total hip arthroplasty by 45%. Presented at the 1996 AAOS.

* Various components of the VerSys Hip System are covered by one or more of the following: U.S. Patents 4,281,420; 4,336,618; 4,491,987; 4,795,472; 4,963,155; 5,013,324; 5,018,285; 5,089,003; 5,156,624; 5,192,323; 5,126,362; 5,480,453; 5,496,375; 5,569,255; 5,624,445; 5,702,485; 5,725,596; 5,755,811; D 397,220.