

# Zimmer Segmental System

## Factsheet



<b>Tagline</b>	Simple solutions for solving complex salvage cases
<b>Product Positioning Straight forward</b>	Oncology System based on Rotating Hinge Knee (condylar loading, rotating tibia, patella tracking)
<b>Launched</b>	2007
<b>Design Philosophy</b>	<ul style="list-style-type: none"> <li>• Modular</li> <li>• <i>Trabecular Metal</i> Technology</li> <li>• Rotating platform</li> <li>• 95% condylar loading</li> <li>• Intuitive Instrumentation</li> </ul>
<b>Patient Specificities</b>	Severe Revision situation and traumatic cases with massive bone loss and/or oncology cases
<b>Locations</b>	<ul style="list-style-type: none"> <li>• Distal Femur reconstruction</li> <li>• Proximal Femur reconstruction</li> <li>• Proximal Tibia reconstruction (launch 2012)</li> <li>• Intercalary reconstruction</li> <li>• Total Femur replacement</li> </ul>
<b>Based on System</b>	<ul style="list-style-type: none"> <li>• <i>Zimmer</i> Rotating Hinge Knee</li> <li>• <i>MOST Options</i></li> </ul>
<b>Anteversión Alignment</b>	20° increments
<b>Materials Used</b>	<p><b>Femoral implants/Tibial plates:</b> CoCr Alloy  <b>Segments:</b> <i>Titanium</i>® Ti-6Al-4V Alloy  <b>Stems:</b> CoCr Alloy  <b>Articular surfaces:</b> UHMWPE  <b>Stem collars:</b> Titanium Alloy or TM Technology</p>
<b>Distal Femoral Implants</b>	<p><b>Sizes:</b> 2 sizes  <b>Left and Right:</b> Yes  <b>High-Flex Design:</b> No  <b>Load:</b> 95% condylar  <b>Material used:</b> <i>Zimaloy</i>® Cobalt-Chromium Molybdenum Alloy</p>
<b>Rotating Hinge Knee Femoral Component</b>	<p><b>Sizes:</b> 5 sizes (including B-size for smaller bones)  <b>Left and Right:</b> Yes  <b>Cemented:</b> Yes  <b>Cementless:</b> No  <b>Load:</b> 95% condylar  <b>Material used:</b> <i>Zimaloy</i> Co-Cr-Mo Alloy</p>
<b>Trabecular Metal Proximal Femur</b>	<p><b>Sizes:</b> 38 mm offset, 46 mm offset  <b>Neck Angle:</b> 45°  <b>Taper:</b> 12/14  <b>Soft Tissue Attachment:</b> Yes  <b>Attachment Substrate:</b> Trabecular Metal  <b>Material:</b> Ti-6Al-4V Alloy, Tantalum (TM)  <b>Tissue Attachment Washer:</b> Curved 4 mm (Proximal only), Flat 4 mm, Flat 7 mm</p>
<b>Segments</b>	<p><b>Sizes:</b> 13 male-female; 3 male-male; 3 female-female (intercalary)  <b>Minimal increments:</b> 5 mm  <b>Connection:</b> Taper  <b>Material used:</b> <i>Titanium</i> Ti-6Al-4V Alloy</p>
<b>IM-Stems</b>	<ul style="list-style-type: none"> <li>• 8 Diameters (12–19 mm), cemented and cementless              3 additional Diameter to be launched in 2010 (9–11 mm)</li> <li><b>Cemented</b></li> <li>• Straight Cemented Stems: 2 lengths (130 mm and 190 mm)</li> <li>• Bowed Cemented Stems: 1 length (250 mm)</li> <li><b>Cementless</b></li> <li>• Straight Cementless Stems (VSS): 1 length (130 mm)</li> <li>• Bowed Cementless Stems (VSS): 1 length (190 mm)</li> <li><b>Material used:</b> <i>Zimaloy</i> Cobalt-Chromium Molybdenum Alloy</li> </ul>
<b>Tibial Plates (see Rotating Hinge)</b>	<p><b>Sizes:</b> 6 sizes  <b>Slope:</b> 0°  <b>Shape:</b> Symmetric (modular/stemnable and non-modular plate)  <b>Cemented:</b> Yes  <b>Cementless:</b> No  <b>Fixed:</b> No  <b>Mobile:</b> Yes (Rotating Platform)  <b>Material used:</b> <i>Zimaloy</i> Cobalt-Chromium Molybdenum Alloy</p>



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<b>Articular Surfaces</b>	<b>Sizes:</b> 4 sizes; 6 thicknesses (12–26 mm) <b>Material used:</b> UHMWPE One piece hinge post in lengths adapted to the thickness of the specific articular surface.
<b>Trabecular Metal Proximal Tibia</b>	<b>Sizes:</b> 1 to 3 <b>Soft Tissue Attachment:</b> Yes <b>Attachment Substrate:</b> Trabecular Metal <b>Material:</b> Co-Cr-Mo Alloy, Tantalum (TM) <b>Tissue Attachment Arms:</b> – Adjustable orientation – Accepts up to 4mm of compressed tissue – Adjustable tension
<b>Intercalary Segments</b>	<b>Sizes:</b> 3 (45 mm, 55 mm, 65 mm) <b>Material used:</b> <i>Titanium</i> Ti-6Al-4V Alloy
<b>Patellae</b>	<b>Sizes:</b> 4–6 sizes, 3 types (3-Peg All-poly, Porous, Augmented) <b>Material used:</b> UHMWPE, Prolong®-X-linked PE, Tantalum <b>Shape:</b> domed <b>Versions:</b> 3 peg All-polyethylene patella; Primary porous; Augmentation patella ( <i>Trabecular Metal</i> Technology) (Mainly used for revision)
<b>Interchangeability</b>	<ul style="list-style-type: none"> <li>• Patellar components</li> <li>• Tibial/femoral augments for RH-Knee</li> <li>• Straight and offset stem extensions for RH-Knee</li> </ul>
<b>Stems</b>	<b>Straight stems:</b> (see Rotating Hinge Knee) <b>Extra long straight stems:</b> (see Rotating Hinge Knee) <b>Curved stems:</b> 197 mm (see Rotating Hinge Knee) <b>Offset stems:</b> (see LCCK) <b>Sharp fluted stems:</b> (see LCCK)
<b>Augments</b>	<b>Tibial:</b> (see Rotating Hinge Knee) <b>Tibial TM-Cone augments:</b> (see Rotating Hinge Knee) <b>TM shapes</b>