Zimmer® Maxera™ Cup

Not available for commercial distribution in the United States
The Maxera Cup provides a large-head, ceramic-on-ceramic option for the younger and more active patient. The cup is an established hemispherical design\textsuperscript{8,11,12} that provides increased stability\textsuperscript{2–6} with a familiar surgical technique. The Maxera Cup presents orthopaedic surgeons with a system that offers high range of motion\textsuperscript{1, 2} and a low-wear\textsuperscript{7–9} bearing to better enable the restoration of a patient’s active lifestyle.

### Enables Higher Patient Activity Levels

#### Large Diameter Heads Allow Increased Range of Motion

The Maxera Cup is paired with BIOLOX\textsuperscript{*} delta and BIOLOX OPTION Large Diameter Heads (i.e., sizes 32mm, 36mm, 40mm, 44mm, 48mm):

- For an identically placed cup and stem, a larger head provides increased range of motion before impingement and reduces risk for dislocation\textsuperscript{1, 2}

### Large Diameter Heads Provide Increased Stability

- Recent clinical studies show that large diameter heads reduce the rate of dislocation\textsuperscript{2–6}
- A large diameter articulation offers increased dislocation height (X > Y)

<table>
<thead>
<tr>
<th>Study</th>
<th>Dislocation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hummel et al\textsuperscript{3} (Revision Study)</td>
<td>28mm 10.6% (14/132), 32mm 2.7% (3/110)</td>
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<tr>
<td>Dowd et al\textsuperscript{4}</td>
<td>28mm 3.7% (13/358), 32mm 1.2% (4/308), 36mm 0.2% (1/515)</td>
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<tr>
<td>Peters et al\textsuperscript{5}</td>
<td>28mm 2.5% (4/160), 38mm 0% (0/136)</td>
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<tr>
<td>Cuckler et al\textsuperscript{2}</td>
<td>28mm 2.5% (2/78), 38mm 0% (0/616)</td>
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<tr>
<td>Howie et al\textsuperscript{6}</td>
<td>28mm 4.4% (12/275), 36mm 0.8% (2/258)</td>
</tr>
</tbody>
</table>

* Trademark of CeramTec GmbH.
Tough BIOLOX delta Articulation Technology

Very Low Wear

- Ceramic surface hardness reduces friction and improves wear7
- Favorable wetting characteristics of ceramic contribute to better lubrication and lower wear7–9

Excellent Biocompatibility

- An excellent choice for patients who may be sensitive to specific metal elements such as CoCr found in femoral heads10
- Alternative to a metal-on-metal articulation for surgeons concerned with delayed metal sensitivity due to metal wear and metal ions

High Fracture Resistance

- BIOLOX delta ceramic toughness and bending strength are more than double that of pure Alumina ceramics through the addition of Zirconia and Strontium Oxide7
- Fracture toughness increased 150%, burst strength increased 160%, and four-point bending strength improved 210% compared with BIOLOX forte ceramic7, 10

Designed for Stable Cup Fixation

Full Hemispherical Design

The Maxera Cup is a familiar 180° full hemisphere.

- Many surgeons are experienced in implanting hemispherical cups. Several currently available press-fit cups feature this design, such as Trilogy®, Converge®*, and Continuum® Acetabular Systems
- Maxera Cup instrumentation allows surgeons to choose the desired press-fit based on patient’s bone quality

Anti-rotation Fins Provide Increased Rotational Stability

- Three sets of paired, anti-rotation fins (6 fins total) are equally distributed around the cup to provide increased rotational stability8,11
- To maximize the available surface coating and reduce micromotion, the area between the fins is also coated with Ti-VPS (titanium vacuum plasma spray)12

** Not commercially available outside the United States and Japan.
References

6. Howie et al., A randomised controlled trial of large metal on highly cross-linked polyethylene articulations in primary and revision total hip replacement, 40th Advances in Arthroplasty, 202, Cambridge, MA, 2010
8. Data on File at Zimmer

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