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# Solar™ Total Shoulder



## Exclusive Features

- Male trunnion humeral component more accurately recreates the anatomic center of rotation
- Patented, divergent peg glenoid takes advantage of greatest bone density in superior and inferior regions of the glenoid
- Unique dual radius head allows for independent sizing of head thickness and head diameter
- ALL HUMERAL HEADS, GLENOIDS AND HUMERAL COMPONENTS ARE COMPLETELY INTERCHANGEABLE

stryker®  
**Howmedica**  
OSTEONICS

# SOLAR™ TOTAL SHOULDER

*Versus*

## DEPUY GLOBAL™ AND BIOMET BIO-MODULAR®

Solar™ Total Shoulder	Depuy Global™ Shoulder	Biomet Bio-Modular® Shoulder
<ul style="list-style-type: none"> <li>11 humeral stems and 3 long stems with <i>male</i> Morse taper to more accurately recreate the anatomic center of rotation</li> </ul>	<ul style="list-style-type: none"> <li>9 humeral stems and 4 long stems with <i>reverse</i> Morse taper; provides less anatomic positioning of humeral head, plus requires cleaning out of debris to reduce risk of humeral head disassociation</li> </ul>	<ul style="list-style-type: none"> <li>10 humeral stems and 4 long stems with <i>reverse</i> Morse taper; provides less anatomic positioning of humeral head, plus requires cleaning out of debris to reduce risk of humeral head disassociation</li> </ul>
<ul style="list-style-type: none"> <li>Forged Titanium alloy with grit blasted proximal body and polished distal end; allows for <i>easier</i> removal in revision cases, should this be necessary</li> </ul>	<ul style="list-style-type: none"> <li>Forged Titanium alloy with proximal porous coating for added fixation; would be <i>harder</i> to remove during revision cases</li> </ul>	<ul style="list-style-type: none"> <li>Forged Titanium alloy with proximal porous coating for added fixation; would be <i>harder</i> to remove during revision cases</li> </ul>
<ul style="list-style-type: none"> <li>Anterior, posterior, lateral fins with suture holes aid in three and four part fracture fixation; proximal collar is minimized to make cement mantle more accessible in revision cases</li> </ul>	<ul style="list-style-type: none"> <li>Large proximal collar can make revision cases extremely difficult</li> </ul>	<ul style="list-style-type: none"> <li>Lateral fin only; limits suture locations in three and four part fractures</li> </ul>
<ul style="list-style-type: none"> <li>4 patented <i>divergent</i> pegged glenoid components; pegs positioned in an area of greatest bone density</li> </ul>	<ul style="list-style-type: none"> <li>6 patented <i>parallel</i> pegged glenoid components; NOT angled which increases potential to "rock out"</li> </ul>	<ul style="list-style-type: none"> <li>3 <i>parallel</i> pegged glenoid components; NOT angled which increases potential to "rock out"</li> </ul>
<ul style="list-style-type: none"> <li>4 keeled glenoid components with normalizations</li> </ul>	<ul style="list-style-type: none"> <li>4 conventional keeled glenoid components</li> </ul>	<ul style="list-style-type: none"> <li>3 conventional keeled glenoid components</li> </ul>
<ul style="list-style-type: none"> <li>19 Dual Radius Heads (cobalt chromium alloy); can size head thickness and diameter independently, optimizing range of motion and soft tissue balance</li> </ul>	<ul style="list-style-type: none"> <li>19 standard and 6 eccentric single radius heads (cobalt chromium alloy)</li> </ul>	<ul style="list-style-type: none"> <li><i>Only</i> 13 single radius humeral heads available</li> </ul>
<ul style="list-style-type: none"> <li>ALL HUMERAL HEADS, GLENOIDS, AND HUMERAL COMPONENTS ARE COMPLETELY INTERCHANGEABLE</li> </ul>	<ul style="list-style-type: none"> <li>Each glenoid size has a different spherical bearing radius; only 3 heads fit each size glenoid component; not all heads can be used with any humeral component</li> </ul>	<ul style="list-style-type: none"> <li>Uses largest radius of curvature on glenoid so heads will work with any glenoid component; however, mismatch is greater than 3mm as heads get smaller</li> </ul>
<ul style="list-style-type: none"> <li>Simple, user friendly instrumentation</li> </ul>	<ul style="list-style-type: none"> <li>Instrumentation tends to be bulky and cumbersome, especially the glenoid preparation instruments</li> </ul>	<ul style="list-style-type: none"> <li>Instrumentation can be bulky and cumbersome</li> </ul>

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