The minimized neck geometry of the Secur-Fit™ Max stem provides an increase of up to 15% in range of motion from its predecessor.

Clinical Range of Motion
Secur-Fit™ Max stem combined with the Trident® Ceramic Acetabular System positioned at 45° abduction and 20° anteverision, achieves more ROM than that reported as the average clinical ROM achieved by a normal hip joint. A diseased hip typically results in compromised ROM usually less than that of the reported clinical ROM.

<table>
<thead>
<tr>
<th>Movement</th>
<th>Average Clinical ROM</th>
<th>Secur-Fit™ Max ROM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexion/Hyperextension</td>
<td>141°</td>
<td>215°</td>
</tr>
<tr>
<td>Abduction</td>
<td>48°</td>
<td>76°</td>
</tr>
<tr>
<td>Internal/External Rotation</td>
<td>83°</td>
<td>182°</td>
</tr>
<tr>
<td>A/P Sweep</td>
<td>N/A</td>
<td>136°</td>
</tr>
</tbody>
</table>
Stryker® femoral hip stems are designed to assist the surgeon in restoring patient biomechanics, with the goal of restoring optimal movement and activity for the patient.

Factors Influencing Range of Motion
The post-operative range of motion (ROM) is a measurement that can be affected by several variables, the combination of which leads to optimal ROM for the patient. Anatomic orientation of the components helps to achieve excellent ROM, as any one of these factors can influence a patient’s hip movement:

- Patient anatomy
- Stem size
- Neck length
- Neck geometry
- Skirted heads
- Head offsets
- Cup/head size
- Liner design
- Cup positioning/orientation

Secur-Fit™ Max Range of Motion
Both the anterior/posterior and medial/lateral planes of the neck of the Secur-Fit™ stem have been reduced to increase the achievable range of motion of the Secur-Fit™ Max and Secur-Fit™ Plus Max stem. Assuming optimal anatomic component positioning and depending on the combination of the components used, a patient could potentially achieve an increase of up to 15% in ROM over its predecessor. The reduced neck geometry of the Ti-6Al-4V femoral stem is possible through shot peening, a process adding approximately 10%-15% of additional material fatigue strength.

1. Data on file at Stryker Orthopaedics.

The information presented in this material is intended to demonstrate the breadth of Stryker product offerings. Always refer to the package insert, product label and/or user instructions before using any Stryker product. Surgeons must always rely on their own clinical judgment when deciding which treatments and procedures to use with patients. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

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