Strength.* In numbers.

The numbers tell the story.

**1M**
Number of respiratory cycles in 6 weeks (approximate bone healing time)

**11.7N**
Median load survived by KLS L1 Rib Plates for 1,000,000 cycles¹

**21.2N**
Median load survived by DePuy Synthes MatrixRIB Plates for 1,000,000 cycles¹

**80%**
MatrixRIB Plates survived 80% higher maximum load than KLS Martin L1 Rib Plates¹

**.03%**
Documented MatrixRIB Plate adverse event rate since 2008²

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*In 3rd party¹ biomechanical testing, DePuy Synthes MatrixRIBplates proved 80% stronger than KLS Martin L1 Rib Plates. (Error bars represent one standard deviation from median).
Fatigue testing

**Test Setup**
Plate affixed to test blocks and dynamically loaded in compression until failure

**Test Goal**
Survive 1,000,000 cycles (approximately 6 weeks of respiratory loading)

**RESULT**

<table>
<thead>
<tr>
<th>Test</th>
<th>Goal</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>KLS</td>
<td>L1 Rib Plates</td>
<td>11.7N</td>
</tr>
<tr>
<td>MatrixRIB</td>
<td>Plates</td>
<td>21.2N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80%</td>
</tr>
</tbody>
</table>

Bending stiffness of MatrixRIB Plate construct is comparable to intact cadaveric osteoporotic rib.  

*Strength, in terms of obtained construct stiffness, is defined as the Median Fatigue Limit/Testing Moment Arm, where MFLMATRIXRIB = 21.2N, MFLKLS = 11.7N, Testing Moment Arm = 27.0 mm.*

Bench top test results are not indicative of clinical results.


† 3rd party biomechanical testing performed on behalf of DePuy Synthes

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