STRONGER. FASTER. COOLER.

The nano-coated LigaSure™ Maryland jaw device outperforms the Harmonic™ HD 1000i device

STRONGER AND FASTER

Seal Failure Rate

<table>
<thead>
<tr>
<th>Device Type</th>
<th>Failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>LigaSure™ Maryland jaw</td>
<td>0</td>
</tr>
<tr>
<td>Harmonic™ HD 1000i</td>
<td>8</td>
</tr>
</tbody>
</table>

Seal Time Across Different Tissue Types

- **LigaSure™ Maryland jaw**: 2.53 sec
- **Harmonic™ HD 1000i**: 5.67 sec

FASTER AND COOLER

- **Max jaw temperature**
  - **LigaSure™ Maryland jaw**: 64.2°C
  - **Harmonic™ non-active jaw**: 88.5°C
  - **Harmonic™ ultrasonic jaw**: 232.0°C

- **Cooldown time to 60°C**
  - **LigaSure™ Maryland jaw**: 19.6 sec
  - **Harmonic™ HD 1000i**: 25.8 sec

- **Mean activation time**
  - **LigaSure™ Maryland jaw**: 3.4 sec
  - **Harmonic™ HD 1000i**: 12.7 sec

TRY IT IN YOUR NEXT PROCEDURE

Contact your local Medtronic sales representative today or visit medtronic.com/covidien
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LigaSure™ Maryland jaw device

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STRONGER AND FASTER\(^1\)

Seal Failure Rate\(^1\)

0 Failures\(^1,1\)
LigaSure™ Maryland jaw

8 Failures\(^1,1\)
Harmonic™ HD 1000i

Seal Time Across Different Tissue Types \(^1\)

2.63 sec

5.67 sec

FASTER AND COOLER\(^2,5\)

Max jaw temperature\(^2\)

64.2 C
LigaSure™ Maryland jaw

88.5 C
Harmonic™ non-active jaw

222.1 C
Harmonic™ ultrasonic jaw

Cooldown time to 60 C\(^2\)

39.6 sec
LigaSure™ Maryland jaw device

21.8 sec
Harmonic™ HD 1000i device

Mean activation time\(^2\)

3.4 seconds\(^2\)
LigaSure™ Maryland jaw device

12.7 seconds\(^2\)
Harmonic™ HD 1000i device

\(^1\) Out of 115 activations.
\(^1\) Out of 116 activations.
\(^5\) HD1000i utilized with Advanced Hemostasis mode.

1. Based on internal test report #R0032362 Rev A, Comparison of Ethicon Harmonic™ HD1000i shears versus nano-coated LigaSure™ Maryland jaw device on the Valleylab™ FT10 energy platform in an acute porcine study, May 8–9, 2017.