HARMONIC™ HD 1000i Shears:

Learn more inside ▶
The HARMONIC™ HD 1000i

Improved clinical performance and usability in a single device

Designed to address unique challenges in complex open and laparoscopic procedures, the HARMONIC™ HD 1000i offers a seamless combination of precision and strength for improved dissection, faster transection, and more secure sealing.

- **Dissecting Jaws**
  - Tapered blade precisely designed to separate and access fine tissue planes.
  - Dissecting shape may reduce instrument exchanges during dissection of vessels and lymph nodes.

- **Wider, Flatter, Curved Blade**
  - New seal profile creates seals 150% stronger than other advanced energy devices.
  - 35% faster transection speeds on vessels up to 5 mm using new energy button.
  - Increased grasping strength designed to improve mobilization.

- **Sealing**
  - 18 mm blade length for securely capturing tissue bundles and vessels up to and including 7 mm in diameter.

- **Intuitive Interaction**
  - Scissor-like control allows for finer adjustments during blunt and active dissection.
  - Single energy button designed to optimize sealing vessels up to 5 mm in diameter.

- **Advanced Hemostasis Mode**
  - Transects 40% faster than previous HARMONIC™ devices on 5-7 mm vessels with advanced hemostasis mode.

- **Integrated Transducer**
  - Integrated handpiece provides consistent performance by simplifying device setup and reducing cord tangling.
HARMONIC™ HD 1000i: A step forward in the evolution of HARMONIC™ advanced energy devices

- Unmatched precision
- Unparalleled strength
- Optimal efficiency
HARMONIC™ HD 1000i: A step forward in the evolution of HARMONIC™ advanced energy devices

Unmatched precision\textsuperscript{1,2,8}

Unique shape mimics a mechanical dissector\textsuperscript{8}, reducing the need to use a separate dedicated dissecting instrument\textsuperscript{2}

More tapered jaw designed to enable more precise access to tissue planes\textsuperscript{1}

Unparalleled strength\textsuperscript{3,9,14}

Curved, tapered blade geometry mirrors a mechanical dissector, delivering superior dissection compared to ENDOPATH Maryland Dissector\textsuperscript{15}.

Optimal efficiency\textsuperscript{2,5,6,10,12}

HARMONIC™ HD 1000i vs ENDOPATH Maryland Dissector

- Jaws Closed: Side
- Jaws Closed: Top
- Jaws Closed: Front

<table>
<thead>
<tr>
<th></th>
<th>HARMONIC™ HD 1000i</th>
<th>ENDOPATH Maryland Dissector</th>
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</table>

ETHICON

Shaping the future of surgery

Harmonic™
HARMONIC™ HD 1000i: A step forward in the evolution of HARMONIC™ advanced energy devices

Unmatched precision
Unparalleled strength
Optimal efficiency

Unique blade design delivers secure seals

Produces consistent and reliable hemostasis which has been shown in challenging hemostasis conditions.

Exceptional sealing strength as evidenced by burst pressures of 150% relative to both small and large jaw devices

Burst Pressure Comparison

- HARMONIC™ HD 1000i: 1878 mmHg
- LigaSure™ IMPACT™: 1224 mmHg
- Ligasure™ Maryland: 1171 mmHg
- THUNDERBEAT™: 1343 mmHg
- Covidien™ Sonicision™: 1182 mmHg
- Ligasure™ Blunt Tip: 1378 mmHg

150% of even large jaw competitors
160% of comparable small jaw competitors
HARMONIC™ HD 1000i: A step forward in the evolution of HARMONIC™ advanced energy devices

Unmatched precision

Unparalleled strength

Optimal efficiency

Increased sealing speed, multi-functionality, and simplified steps for use allow for optimal efficiency

Simple energy activation utilizing a single energy button
- Provides the reliable sealing of the HARMONIC™ MIN button with faster cutting than HARMONIC™ MAX button for vessels up to 5 mm in diameter

Indicated for vessels up to and including 7 mm diameter
- 40% faster sealing using the Energy with Advanced Hemostasis button, compared to previous generations of HARMONIC™

Longer cut length
- Strong tip grasping is designed to minimize tissue slippage and may aid in tissue manipulation and control

New integrated transducer offers potential efficiencies through eliminating the need to order, manage or clean a separate item.
Ideal for use in a variety of surgically complex procedures

The distinct performance features of the HARMONIC™ HD 1000i are particularly well-suited for a number of surgical settings.

**Hepato-pancreato-biliary**
HARMONIC™ technology allows for less intraoperative blood loss and fewer surgical complications in liver surgery.

**Colorectal**
The longer, more tapered blade design and dissection capabilities of the HARMONIC™ HD 1000i may provide visibility and access in the pelvis in colorectal procedures.

**GYN Oncology and Lymphadenectomy**
HARMONIC™ HD 1000i may be used in GYN oncology procedures including hysterectomy and to dissect lymph nodes in procedures such as lymphadenectomy.

**Thoracic**
Jaw design, device ergonomics, and modulated energy delivery of Adaptive Tissue Technology enable the HARMONIC™ technology to be used in thoracic procedures to dissect lymph nodes, seal lymphatic ducts, and seal vessels with diameters of less than 7 mm.
The complete HARMONIC™ portfolio
Devices that build on the performance and precision of previous generations

<table>
<thead>
<tr>
<th>HARMONIC™ HD 1000i</th>
<th>HD 1000i Platform</th>
<th>Advanced Hemostasis</th>
<th>Adaptive Tissue Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARMONIC ACE™+7 Shears</td>
<td>Advanced Hemostasis</td>
<td>Adaptive Tissue Technology</td>
<td></td>
</tr>
<tr>
<td>HARMONIC ACE™+ Shears</td>
<td>Adaptive Tissue Technology</td>
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<td>HARMONIC FOCUS™+ Shears</td>
<td>Adaptive Tissue Technology</td>
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**HD 1000i Platform**
Blade designed for improved precision, seal strength, and efficiency—all powered by an integrated transducer

**Advanced Hemostasis**
Modulated energy provides strong and secure sealing in all vessel sizes up to 7 mm in diameter

**Adaptive Tissue Technology**
System enables surgical precision by delivering energy intelligently
Ordering information

<table>
<thead>
<tr>
<th>PRODUCT CODES</th>
<th>DESCRIPTION</th>
<th>QUANTITY/SALES UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARHD20, HARHD36</td>
<td>HARMONIC™ HD 1000i</td>
<td>6</td>
</tr>
</tbody>
</table>

HARMONIC™ HD 1000i is supplied sterile for single-patient use. It is compatible with the existing Ethicon Generator G11 (software version 2016-1 or later versions).

For more information or product support, contact your Ethicon Sales Representative.

Please always refer to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.

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References

1. In a pre-clinical study, for both iliac dissection and lymph node dissection, the HD100i was significantly superior to HARMONIC ACE™+7 in dissecting capability (p<0.001 in all cases). Ethicon, PSB004399A HARMONIC HD 100i Open Shears (HARHD20) and HARMONIC HD100i Laparoscopic Shears (HARHD36). Design Verification Acute Study in the Pig. 2016. Data on file. Ethicon, HARMONIC HD 100i Competitive Overlays. 2016. Data on file. 051950-160425


3. In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC™ HD 100i (1878 mmHg) vs. LigaSure Impact™ (1224 mmHg) (p<0.0001) (153%), Ligasure™ Maryland (1171 mmHg) (p<0.0001) (160%), Olympus THUNDERBEAT (1343 mmHg) (p<0.0001) (140%), Covidien SonicationTM (1182 mmHg) (p<0.0001) (159%), LigaSure Blunt Tip (1378 mmHg) (p<0.0004) (136%). Ethicon, Evidence20160722T142715ZPRC074054A Buccaneer_Thermal_Spread_And_Burst_Claims, 2016. Data on file. 049339-160315 049315-160630

4. In a benchtop study with porcine vessels 3-5 mm in diameter (p=0.0000). Ethicon, PRC074432A Buccaneer Energy Button Vessel Claims. 2016. Data on file. 050521-160401


6. In a pre-clinical study comparing sealing times of HARMONIC ACE+7 and HARMONIC HD100i. HARMONIC HD100i Shears transected vessels faster than HARMONIC ACE+7 (mean vessel transection time of 9.186 seconds vs 15.291 seconds). Ethicon, PRC074125B Buccaneer DV- Vessel Transection Speed. 2016. Data on file. 051753-160420

7. Device measurements based on a metrology study (median cut length 18.87mm vs. 14.56mm for Sonicision™ and 16.90mm for THUNDERBEAT). In a pre-clinical study, 100% (54/54) of porcine blood vessels, up to and including 7mm vessels, remained hemostatic over a 30 day survival period. Ethicon, PRC074607A Buccaneer Metrology Claims. 2016. Data on file. 050340-160330


9. In a pre-clinical study, 100% (56/56) of porcine blood vessels remained hemostatic over a 30 day survival period. Ethicon, PSB004423A HARMONIC HD 100i Laparoscopic Shears (HARHD36). Design Verification Chronic (30 day) Survival Study in the Pig. 2016. Data on file. 050340-160330


11. Seal reliability at 240 mm Hg of 98.2% vs. 98.4% for HARMONIC ACE™+7 MIN button. Speed based on average time to transect 150mm of porcine jejunum (p=0.001). Ethicon, PRC074127B Buccaneer DV- Transection Speed (Marching & Tip Bite). 2016. Data on file. Ethicon, Software Version Comparison - John Schulte 041416. 2016. Data on file. 049339-160315


14. Based on a benchtop study with 5-7mm porcine carotid arteries. HARMONIC™ HD (1878 mmHg) vs. LigaSure Maryland (1171 mmHg) and LigaSure Impact (1224 mmHg). (p<0.05). Ethicon, Evidence 20160722T142715ZPRC074054A Buccaneer_Thermal_Spread_And_Burst_Claims, 2016. Data on file and Ethicon, PSB004423A HARMONIC HD 100i Laparoscopic Shears (HARHD36). Design Verification Chronic (30 day) Survival Study in the Pig. 2016. Data on file. 057636-160808