HARMONIC® HD 1000i Shears:
The product behind the “Wow”
Learn more inside ▶
Introducing the new HARMONIC® HD 1000i

Unprecedented 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.

1. In a pre-clinical study, for both iliac dissection and lymph node dissection, the HD 1000i was significantly superior to HARMONIC ACE+7 in dissecting capability ($p<0.001$ in all cases) (C2072).
2. In a design validation study with surgeons ($n=33$) operating in simulated procedures in an animat porcine laboratory model (C2029).
3. In a porcine study comparing sealing times of HARMONIC ACE+7 and HARMONIC® HD 1000i: HARMONIC® HD 1000i Shears transected vessels faster than HARMONIC ACE+7 (mean vessel transection time of 9.186 seconds vs 15.291 seconds) (C2071).
4. In a benchtop study with porcine vessels 3-5 mm in diameter ($p=0.0000$) (C2069).
5. Device measurements based on a metrology study (median cut length 18.87 mm vs 14.80 mm for Sonicision™ and 16.90 mm for THUNDERBEAT). In a pre-clinical study, 100% ($54/54$) of porcine blood vessels, up to and including 7 mm vessels, remained hemostatic over a 30-day survival period (C2074).
6. Based on a benchtop study using Advanced Hemostasis Mode on 5.7 mm porcine carotid arteries. HARMONIC® HD (9878 mmHg) vs LigaSure™ Maryland (1171 mmHg) and LigaSure Impact™ (1224 mmHg) ($p<0.05$) (C2090).
7. Based on average device tip grasping force (distal 5 mm of the jaw) (C2060).

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

**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**
- Enhanced seal profile creates seals 150% stronger than other advanced energy devices.
- 35% faster transection speeds on vessels up to 5 mm using updated energy button.
- Increased grasping strength designed to improve mobilization.

**Advanced Hemostasis Mode**
- Transects 40% faster than previous HARMONIC® devices on 5.7 mm vessels with advanced hemostasis mode.

**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.

**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

Unique shape mimics a mechanical dissector, and may reduce the need to use a separate dedicated dissecting instrument

More tapered jaw designed to enable more precise access to tissue planes

Curved, tapered blade geometry mirrors a mechanical dissector, delivering superior dissection among advanced energy devices

HARMONIC® HD 1000i vs ENDOPATH Maryland Dissector

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

1. In a pre-clinical study for both iliac dissection and lymph node dissection, the HD 1000i was significantly superior to HARMONIC ACE+7 in dissecting capability (p<0.001 in all cases) (C2072).
2. Based on a pre-clinical study (C2089).
3. Based on a pre-clinical study (C2096).
HARMONIC® HD 1000i: A step forward in the evolution of HARMONIC® advanced energy devices

Unmatched precision + Unparalleled strength + Optimal efficiency

Unique blade design delivers more secure seals, even in the most challenging conditions

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.

1. In a pre-clinical study, 100% (56/56) of porcine blood vessels remained hemostatic over a 30-day survival period (C2073).
2. As demonstrated in pre-clinical procedure videos.
3. Based on a benchtop study using Advanced Hemostasis Mode on 5-7 mm porcine carotid arteries. HARMONIC® HD (1878 mmHg) vs LigaSure™ Maryland (1171 mmHg) and LigaSure Impact™ (1224 mmHg) (p<0.05) (C2090).
4. In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs LigaSure Impact™ (1224 mmHg) (p<0.0001) (C2032).
5. In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs LigaSure™ Maryland (1171 mmHg) (p<0.0008) (C2035).
HARMONIC® HD 1000i: A step forward in the evolution of HARMONIC® advanced energy devices

Increased sealing speed, multifunctionality, and simplified steps for use allow for optimal efficiency¹

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 diameter²

Unmatched precision + Unparalleled strength + Optimal efficiency

- Indicated for vessels up to and including 7 mm in diameter
- 40% faster sealing using the Energy with Advanced Hemostasis button, compared with previous generations of HARMONIC®⁵

- Longer cut length³
- Strong tip grasping is designed to minimize tissue slippage and may aid in tissue manipulation and control⁴

New integrated transducer drives performance and efficiency
- Drives clinical performance, and eliminates the need to order, manage, or clean a separate item

1. In a design validation study with surgeons (n=33) operating in simulated procedures in an animate porcine laboratory model (Q3/33) (C2157).
2. Seal reliability at 240 mmHg of 98.2% vs 98.4% for HARMONIC ACE®+7 MIN button. Speed based on average time to transect 150 mm of porcine jejunum (p<0.001) (C2067).
3. Device measurements based on a metrology study (median cut length 18.87 mm vs 14.80 mm for Sonicision™ and 16.90 mm for THUNDERBEAT). In a pre-clinical study, 100% (54/54) of porcine blood vessels, up to and including 7 mm vessels, remained hemostatic over a 30-day survival period (C2074).
4. Based on average device tip grasping force (distal 5 mm of the jaw) (C2060).
5. In a porcine study comparing sealing times of HARMONIC ACE®+7 and HARMONIC® HD 1000i: HARMONIC® HD 1000i Shears transected vessels faster than HARMONIC ACE®+7 (mean vessel transection time of 9.186 seconds vs 15.291 seconds) (C2071).
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

HARMONIC® HD 1000i
- HD 1000i Platform
- Advanced Hemostasis
- Adaptive Tissue Technology

HARMONIC ACE®+7 Shears
- Advanced Hemostasis
- Adaptive Tissue Technology

HARMONIC ACE®+ Shears
- Adaptive Tissue Technology

HARMONIC FOCUS®+ Shears
- Adaptive Tissue Technology

HD 1000i Platform
Blade designed for unmatched precision, seal strength, and efficiency—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

1. Based on benchtop metrology and porcine comparative studies vs. legacy HARMONIC®, LigaSure™ Maryland and Impact devices.
Ordering information

All HARMONIC® HD 1000i purchase orders are made to Johnson & Johnson Healthcare Care Systems, Inc. (JJHCS).

Electronic ordering options

Note: Placing order electronically avoids minimum order fees for hospitals.

    Johnson & Johnson Gateway
    Visit jnjgateway.com or call 1-866-JNJ-GATE

    Global Healthcare Exchange
    Visit ghx.com or call 1-800-YOUR-GHX

    Electronic Data Interchange
    Call the JJHCS Help Line at 1-800-262-2888

Non-electronic/manual ordering options

Call JJHCS at 1-800-255-2500 (option 1) between 8:30 am and 8:00 pm Eastern time or fax your order to 1-732-562-2212

Customer support

For more information or product support, call 1-877-ETHICON or visit harmonic.com/HD1000i.

See Instructions for Use for complete product details.

Ethicon Endo-Surgery, Inc.
4545 Creek Road
Cincinnati, OH 45242

ethicon.com

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HARMONIC® HD 1000i is supplied sterile for single-patient use. It is compatible with the existing Ethicon Generator G11.

For complete product details, see Instructions for Use.

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