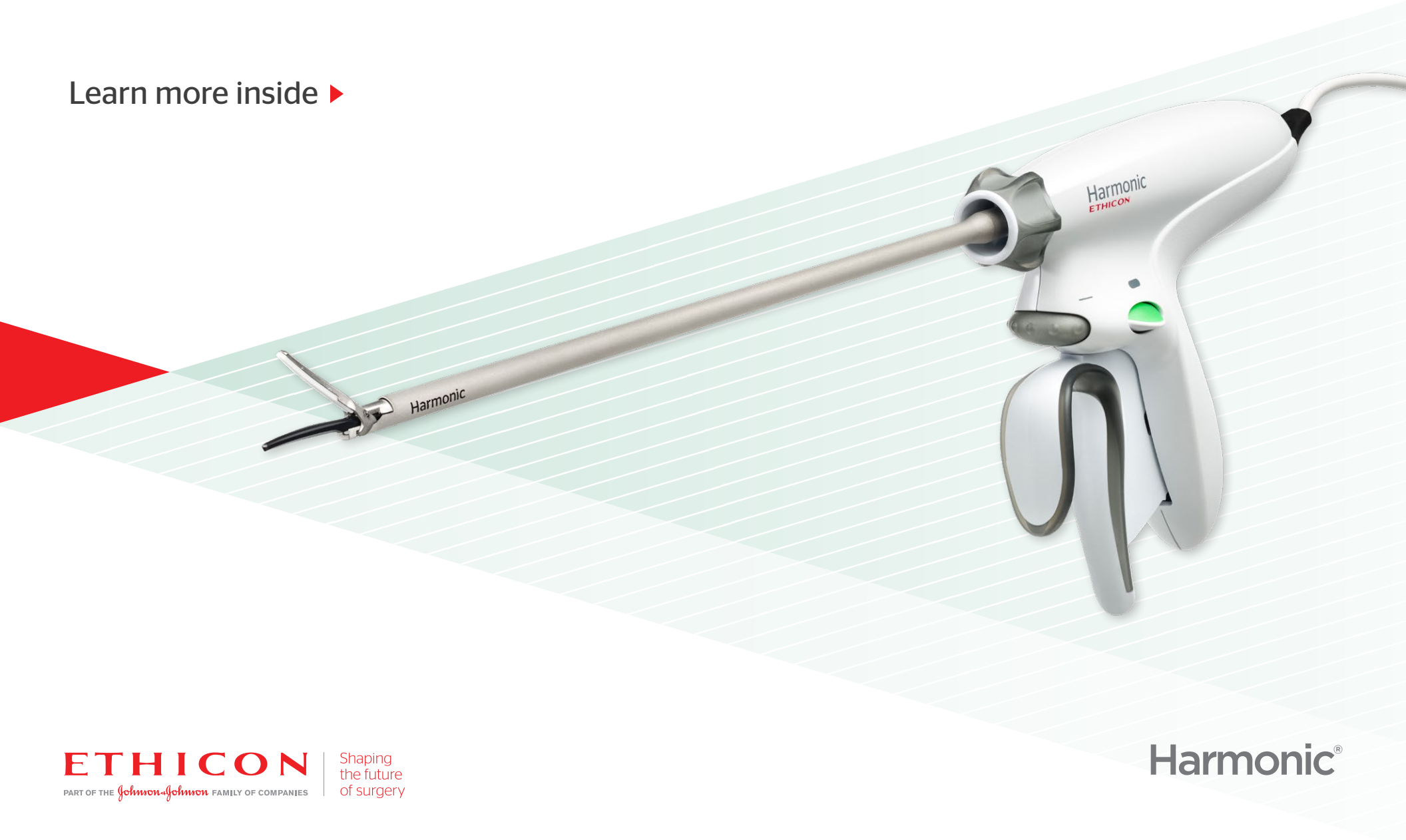
HARMONIC® HD 1000i Shears:

Learn more inside ▶



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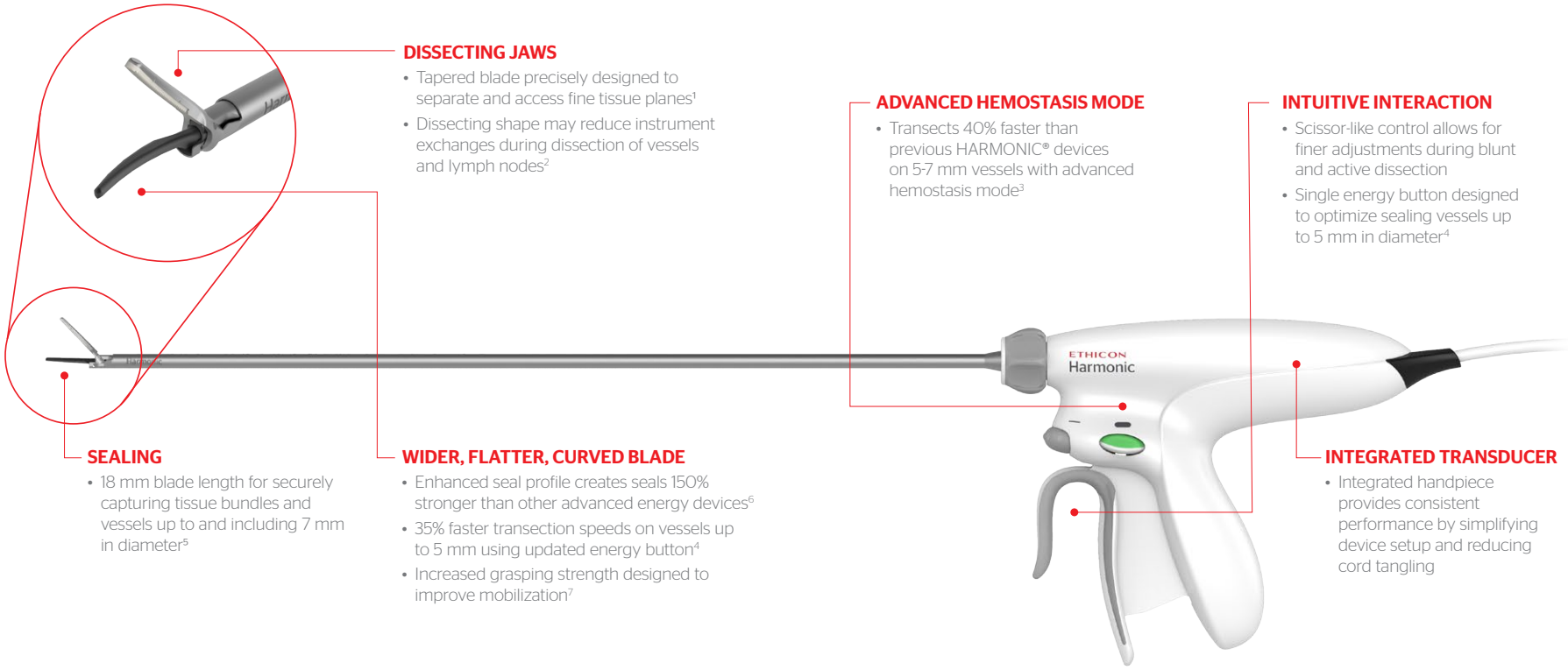
Introducing the new HARMONIC® HD 1000i

Clinical performance and usability in a single device

Designed to address 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[1]
- Dissecting shape may reduce instrument exchanges during dissection of vessels and lymph nodes[2]

ADVANCED HEMOSTASIS MODE

- Transects 40% faster than previous HARMONIC® devices on 5-7 mm vessels with advanced hemostasis mode[3]

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[4]

SEALING

- 18 mm blade length for securely capturing tissue bundles and vessels up to and including 7 mm in diameter[5]

WIDER, FLATTER, CURVED BLADE

- Enhanced seal profile creates seals 150% stronger than other advanced energy devices[6]
- 35% faster transection speeds on vessels up to 5 mm using updated energy button[4]
- Increased grasping strength designed to improve mobilization[7]

INTEGRATED TRANSDUCER

- Integrated handpiece provides consistent performance by simplifying device setup and reducing cord tangling

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 animate porcine laboratory model (26/33) (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 (1878 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).

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

Precision + **Strength** + **Optimal efficiency**

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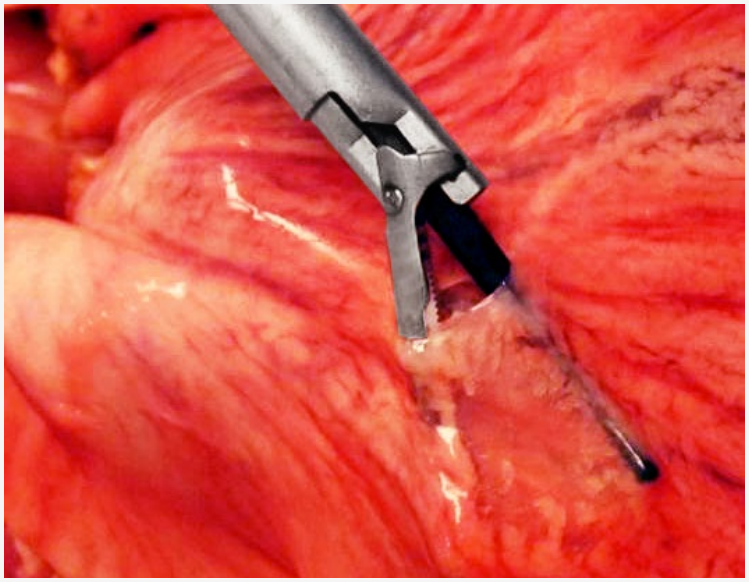
Precision[1] + Strength + Optimal Efficiency

Shape mimics a mechanical dissector, and may reduce the need to use a separate dedicated dissecting instrument[2]

More tapered jaw designed to enable more precise access to tissue planes[1]



Curved, tapered blade geometry mirrors a mechanical dissector, delivering superior dissection among advanced energy devices[3]

HARMONIC® HD 1000i vs ENDOPATH Maryland Dissector

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

HARMONIC® HD 1000i | ENDOPATH Maryland Dissector

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).

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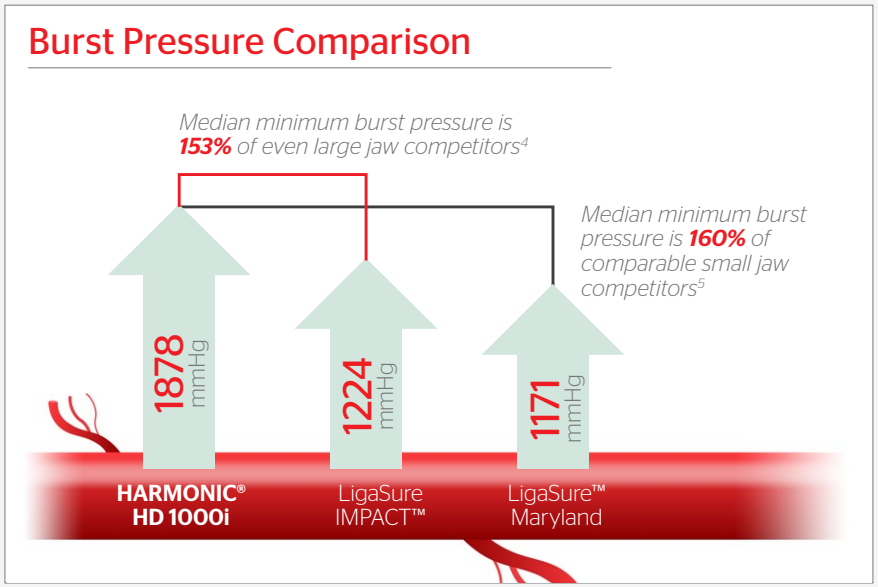
Precision + **Strength** + Optimal Efficiency

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

Produces consistent and reliable hemostasis,[1] which has been shown in challenging hemostasis conditions[2]

Exceptional sealing strength, as evidenced by burst pressures of 150% relative to both small *and* large jaw devices[3]



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) ($p<0.0001$) (C2035).

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

Precision + Strength + **Optimal Efficiency**

Increased sealing speed, multifunctionality, and simplified steps for use allow for optimal efficienc [1]

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[2]

- Longer cut length[3]
- Strong tip grasping is designed to minimize tissue slippage and may aid in tissue manipulation and control[4]

- 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]

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 (26/33) (C2107).
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).

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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.

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.

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.

Thoracic

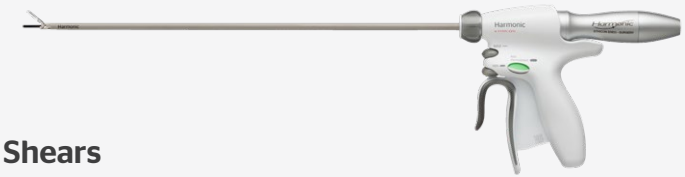
Jaw design, device ergonomics, and modulated energy delivery of Adaptive Tissue Technology enable the HARMONIC® technology to be used in thoracic procedures to dissect lymph nodes, seal lymphatic ducts, and seal vessels with diameters of less than 7 mm.

The complete HARMONIC® portfolio

Devices that build on the performance and precision of previous generations

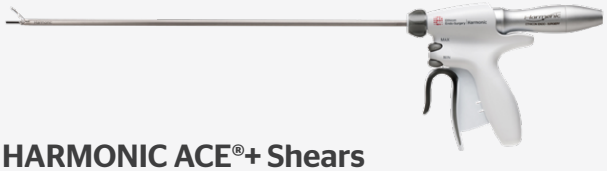
HARMONIC® HD 1000i

- ✓ HD 1000i Platform
- ✓ Advanced Hemostasis
- ✓ Adaptive Tissue Technology



HARMONIC ACE®+7 Shears

- ✓ Advanced Hemostasis
- ✓ Adaptive Tissue Technology



HARMONIC ACE®+ Shears

HARMONIC FOCUS®+ Shears

- ✓ Adaptive Tissue Technology

HD 1000i Platform

Blade designed for precision, seal strength, and efficiency—powered by an integrated transducer[1]

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.

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Ordering information

For more information on our products, please call Johnson & Johnson Customer Service teams:
Australia on 1800 252 194 or 02 9815 4278
New Zealand on 0800 803 988

PRODUCT CODES	DESCRIPTION	QUANTITY/SALES UNIT
HARHD20	HARMONIC® HD 1000i 5mm Shear 20cm	6
HARHD201	HARMONIC® HD 1000i 5mm Shear 20cm	1
HARHD36	HARMONIC® HD 1000i 5mm Shear 36cm	6
HARHD361	HARMONIC® HD 1000i 5mm Shear 36cm	1

For complete product details, see Instructions for Use.

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

AUSTRALIA: Johnson & Johnson Medical Pty Ltd., 1-5 Khartoum Road, North Ryde, NSW 2113
NEW ZEALAND: Johnson & Johnson (NZ) Ltd. 507 Mt Wellington Highway, Mt Wellington, Auckland 1060
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