

Ordering information

PRODUCT CODES	DESCRIPTION
HARHD20	HARMONIC® HD 1000i Shears
HARHD36	HARMONIC® HD 1000i Shears

HARMONIC® HD 1000i Shears is supplied sterile for single-patient use and includes an hand piece. It is compatible with the existing Ethicon Generator GEN11.

HARMONIC®
HD 1000i
Behind the “WOW”



Introducing the new HARMONIC® HD 1000i

Unprecedented 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†

SEALING

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

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#

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

In a pre-clinical study, for both iliac dissection and lymph node dissection, the HD 1000i was significantly superior to ACE+7 in dissecting capability ($p < 0.001$ in all cases).

†In a design validation study with surgeons ($n=33$) operating in simulated procedures in an animate porcine laboratory model (26/33).

‡In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs. Competitor Product A (1224 mmHg) ($p < 0.0001$).

§In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs. Competitor Product B (1171 mmHg) ($p < 0.0001$).

¶In a benchtop study with porcine vessels 3-5 mm in diameter ($p=0.0000$).

#Based on average device tip grasping force (distal 5mm of the jaw).

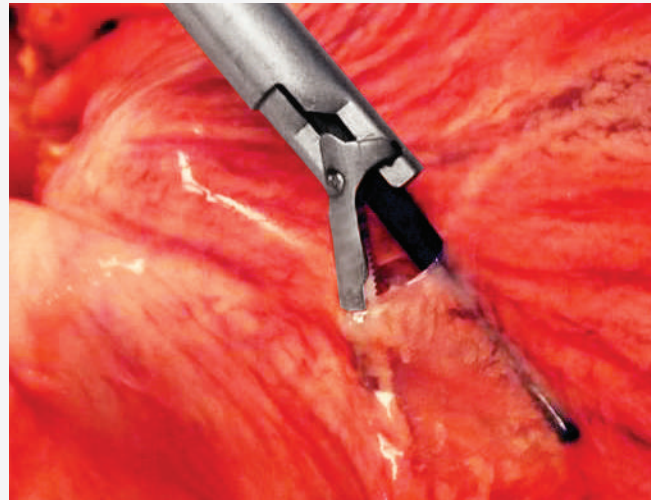
**In a porcine study comparing sealing times of HARMONIC ACE*+7 and HARMONIC® HD 1000i, HARMONIC® HD 1000i Shears transected vessels faster than HARMONIC ACE*+7 (mean vessel transection time of 9.186 vs 15.291).

¶¶Device measurements based on a metrology study (median cut length 18.87 mm vs. 14.80 mm for Competitor Product C and 16.90 mm for Competitor Product D). 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.

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

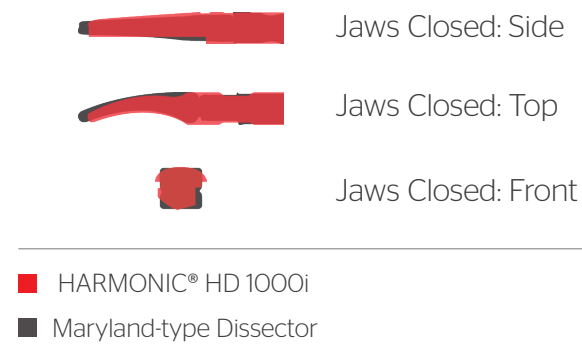
Unmatched precision

Unique shape mimics a mechanical dissector*, reducing the need to use a separate dedicated dissecting instrument†



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

HARMONIC® HD 1000i vs Maryland-type Dissector



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

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®**

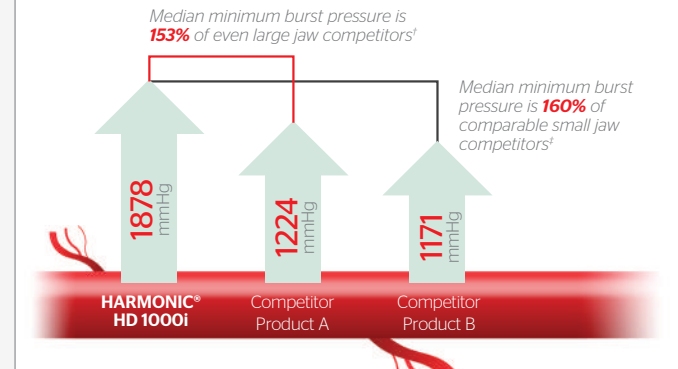
Unparalleled strength

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, such as inflamed and/or fibrous tissue

Burst Pressure Comparison^{##}



Exceptional sealing strength as evidenced by burst pressures of 150% relative to both^{##}



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



New integrated transducer drives performance and efficiency

- Drives clinical performance, and eliminates the need to order, manage, or clean a separate item

*Design Validation Study with surgeons (n=33) operating in simulated procedures in an animate porcine laboratory model.

†In a design validation study with surgeons (n=33) operating in simulated procedures in an animate porcine laboratory model (26/33)

‡In a pre-clinical study, for both iliac dissection and lymph node dissection, the HD 1000i was significantly superior to the predicate devices in dissecting capability (p<0.0001 in all cases).

§In a pre-clinical study, 100% (56/56) of porcine blood vessels remained hemostatic over a 30-day survival period.

||In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs. Competitor Product A (1224 mmHg) (p<0.0001).

##In a benchtop study with 5-7 mm porcine carotid arteries that compared median burst pressure, HARMONIC® HD 1000i (1878 mmHg) vs. Competitor Product B (1171 mmHg) (p<0.0001).

**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 vs 15.291).

††In a design validation study with surgeons (n=33) operating in simulated procedures in an animate porcine laboratory model (26/33)

‡‡Design Validation Study with surgeons (n=33) operating in simulated procedures in an animate porcine laboratory model (33/33)

§§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=0.0000).

###Device measurements based on a metrology study (median cut length of 18.87 mm vs. 14.56 mm).

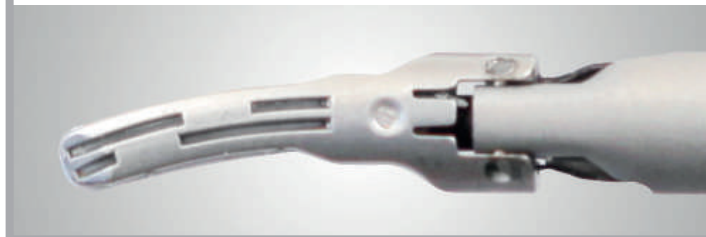
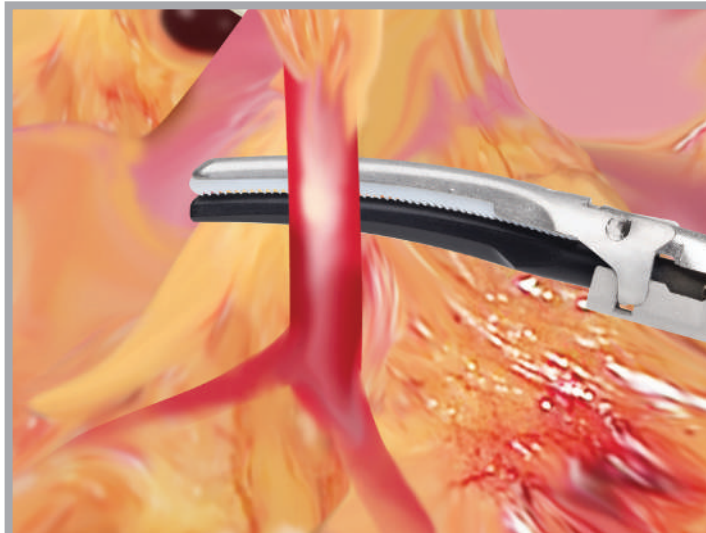
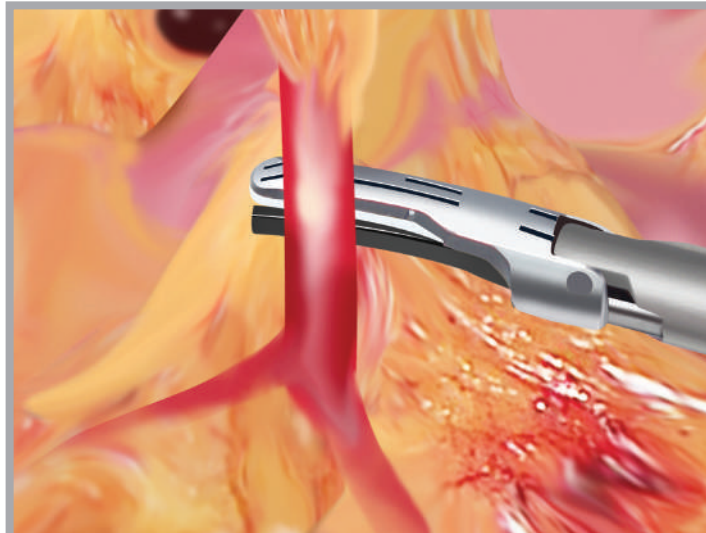
###Based on average device tip grasping force (distal 5 mm of the jaw).

HARMONIC ACE[®]+ 7 VS HARMONIC[®] HD1000i

Longer, Wider, Flatter, Tapered blade improved dissection, faster transection, and more secure sealing.

HARMONIC ACE[®]+ 7

HARMONIC[®] HD 1000i



The complete HARMONIC[®] portfolio

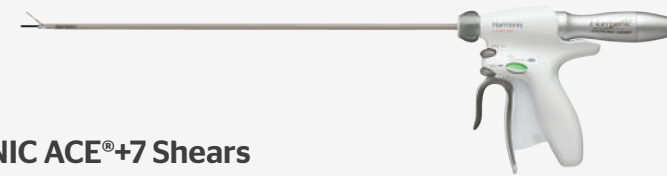
Devices that build on the performance and precision of previous generations

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



HD 1000i Platform

Blade designed for unprecedented 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