

HARMONIC™ 1100 Shears

Ultrasonic leader proven to minimize the impact on tissue^{18-27**}

Fast transection, precise dissection and Improved temperature control^{1-5*}



Improved Adaptive tissue technology that actively controls blade heat for lower maximum blade temperature^{3¥}



Had transection speeds statistically faster than HARMONIC™ ACE+7* for shorter tissue exposure^{2,3,6-8†}



More precise dissection with curved, tapered tip^{3,4,9#≤}

	HARMONIC™ ACE+7	HARMONIC™ 1100
Strong sealing ^{3,10,11**}	●	●
Fast Transection ^{3,7,8,12}		●
Improved temperature control ^{3¥}		●

HARMONIC™ 1100 Shears has an improved Adaptive Tissue Technology algorithm that actively controls blade heat to lower the maximum blade temperature of the device^{3¥}

Smart Energy delivery^{3¥}

- Maintains blade temperature when prolonged activation is required⁴
- Had improved tissue pad life compared to HARMONIC™ HD 1000i Shears.^{13/14‡}

Fast transection^{3,7,8,12‡}

- The Energy button is designed to provide the reliable sealing of the MIN button on ACE™+7 with the cutting speed of the MAX button on ACE™+7^{1-3,7,15,16‡}

HARMONIC™ 1100 Shears

- had a lower maximum blade temperature than ACE+7^{4**}
- had a lower maximum blade temperature than HD 1000i^{4ff}



* Compared to HARMONIC™ ACE+7 Shears as demonstrated in engineering and pre-clinical studies

¥ Compared to previous generations of HARMONIC™ devices

≠ Based on bench top study with porcine vessels 3-5 mm in diameter

Based on a Pre-Clinical evaluation

† Based on a benchtop study with 5-7mm porcine carotid arteries. (Burst pressure: 1878 mmHg)

** Based on benchtop study that showed HARMONIC™ 1100 had significantly lower maximum blade temperature than Harmonic HD 1000i Shears after 15 tip bite transections

‡ Based on testing at Power Level 5

ff Based on benchtop study that showed HARMONIC™ 1100 had significantly lower maximum blade temperature than Harmonic HD 1000i Shears after 15 tip bite transections

≤ Compared to HARMONIC™ ACE+7

± Compared to HARMONIC™ HD 1000i Shears

‡ In a bench top study comparing sealing times of HARMONIC ACE+7 and HARMONIC HD1000i. HARMONIC HD1000i Shears transected vessels faster than HARMONIC ACE+7 (mean vessel transection time of 9.186 seconds vs 15.291 seconds)

** As per designed and internal market share data.

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Shaping
the future
of surgery

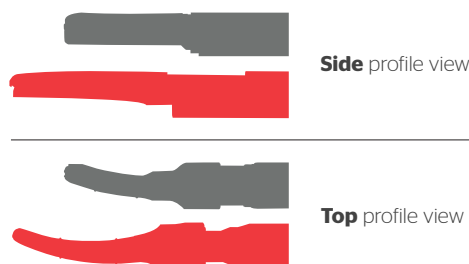
HARMONIC™ 1100 Shears

More precise dissection with curved, tapered tip^{3,5,9**}

- Curved, tapered tip has enabled more precise dissection than HARMONIC™ ACE+7^{3,5,9*}
- With a unique blade design, HARMONIC™ 1100 shears delivered secure seals^{3,10,11#}

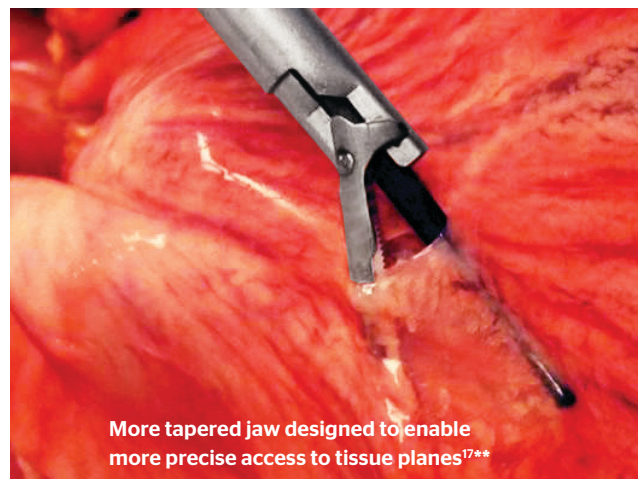
End effector profile differences:

HARMONIC™ 1100 Shears vs HARMONIC™ ACE+7 Shears



■ HARMONIC™ ACE+7 Shears
■ HARMONIC™ 1100 Shears

Improved precision^{3,5,9**}



The next generation of HARMONIC™ 1100 Shears is designed to deliver fast transection speeds, low maximum blade temperature & precise dissection capabilities^{1-5#}

Ordering Information

PRODUCT CODES	DESCRIPTION	QUANTITY/SALES UNIT
HAR1120	HARMONIC™ 1100 Shears, 20 cm length	6
HAR1136	HARMONIC™ 1100 Shears, 36 cm length	6

For ordering or other questions about HARMONIC™ 1100 Shears, contact your local Ethicon Sales Representative

* Based on a Pre-Clinical evaluation

¥ Compared to HARMONIC™ ACE+7

Based on a benchtop study with 5-7mm porcine carotid arteries. (Burst pressure: 1878 mmHg)

≠ Compared to HARMONIC™ ACE+7 Shears as demonstrated in engineering and pre-clinical studies

** Device measurements based on a metrology study

References: 1. Ethicon, PRC74432B, Buccaneer Energy Button Vessel Claims, April 2016, Data on File (176074-210823, 117220-210514) 2. Ethicon, PRC094080B, Scarlet DV- Vessel Transection Speed (and Burst Pressure), March 2020, Data on File (176074-210823, 173359-210409, 117220-210514) 3. Ethicon, SCN075090A, Scarlet Witch Physical Equivalence memo, April 2020, Data on File (176074-210823, 176071-210705, 173359-210409, 173360-210409, 118720-210705, 117222-210705, 117220-210514) 4. Ethicon, PRC095370C, Project Scarlet: Blade Temperature, May 2020, Data on File (176074-210823, 173361-210409, 173358-210409) 5. Ethicon, PSP004888A, HARMONIC™ HD 1000i Open Shears (HARHD20) and HARMONIC™ HD, 1000i Laparoscopic Shears (HARHD36): Design Verification Acute Study in the Pig, March 2016, Data on File (176074-210823, 173360-210409) 6. Ethicon, PRC74432B, Buccaneer Energy Button Vessel Claims, April 2016, Data on File (173359-210409) 7. Ethicon, PRC092654A, Buccaneer Harmonic Burst Pressure Investigation, Nov 2019, Data on File (173359-210409, 117222-210705, 117220-210514) 8. Ethicon, PRC051292A, Vic - transection time evaluation with surgeons, June 2011, Data on File (173359-210409, 117222-210705) 9. Welling AL et al, Superior dissecting capability of a new ultrasonic device improves efficiency and reduces adhesion formation, Glob Surg. 2017;3(1):1-5 (173360-210409) 10. Ethicon, PRC074054A, Buccaneer Thermal Spread And Burst Claims, Feb 2016, Data on File (117220-210705) 11. Ethicon, PSB004423A, Project Buccaneer HARMONIC™ HD 1000i Laparoscopic Shears (HARHD36): Design Verification Chronic (30 day) Survival Study in the Pig, march 2016, Data on File (118720-210705) 12. Ethicon, PRC074125B, Buccaneer DV- Vessel Transection Speed, March 2016, Data on File (117222-210705) 13. Ethicon, PRC093983B, Scarlet 510k and Design Verification - Pad Life, March 2020, Data on File (176081-210705) 14. Ethicon, DRO00290S, Quality Record, June 2018, Data on File (176081-210705) 15. Ethicon, PRC074127B, Buccaneer DV Transection Speed (Marching & Tip Bite), March 2016, Data on File (117220-210514) 16. Ethicon, PRC094084B, Project Scarlet - Marching Transection Speed (Full & Tip), March 2020, Data on File (117220-210514) 17. Ethicon, PRC074607, Buccaneer Metrology Claims, March 2016, Data on File (118655-190715) 18. Ethicon, O1022019, Energy Devices Volume of Publications February 2019 - Literature Search Results, Feb 2019, Data on File (171107-210319) 19. Ethicon, O1022019, AE Publications, Feb 2019, Data on File (171107-210319) 20. Ethicon, O1022019, AE Publications Summary, Feb 2019, Data on File (171107-210319) 21. Ethicon, O1122020, U.S. Market & Share Insights Report, Dec 2020, Data on File (171107-210319) 22. As Per Instructions For Use (171107-210319) 23. Ethicon, PRC042296A, Triton (FCS17) Thermal Spread in Vessels, Feb 2010, Data on File (171107-210319) 24. Ethicon, SCN008558A Triton (FCS17) Test Procedure: Thermal Spread on Vessels Following In Vivo Transection, April 2009, Data on File (171107-210319) 25. Ethicon, SCN049171A, Several HARMONIC FOCUS Shears, 9 cm Length (FCS9) approved claims shall also apply to HARMONIC FOCUS + Adaptive Tissue Technology, 9 cm Length (HAR9F) based on similarity of design memo, Feb 2017, Data on File (171107-210319) 26. Ethicon, 28082019, GBI Info - Harmonic Undisputed Claim memo, Aug 2019, Data on File (171107-210319) 27. Ethicon, 500660262B, HARMONIC Adaptive Tissue Technology memo, March 2021, Data on File (171107-210319)

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

Ethicon Energy Solutions. Healing first



Ethicon Endo-Surgery (Europe) GmbH
Hummelsbütteler Steindamm 71
22851 Norderstedt, Germany

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