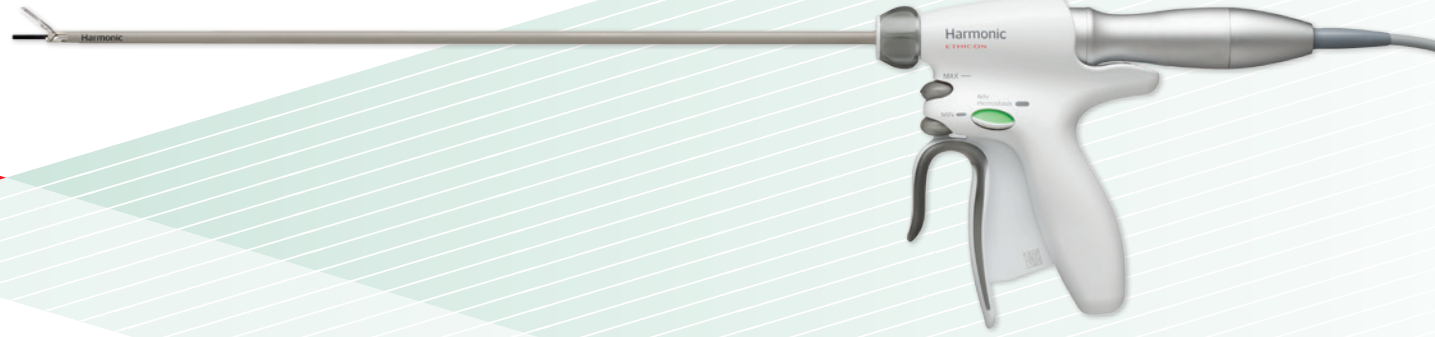
HARMONIC ACE®+7 Shears
with Advanced Hemostasis



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Shaping
the future
of surgery

Because **Precision Matters**

Achieving elite levels of precision and performance takes commitment.

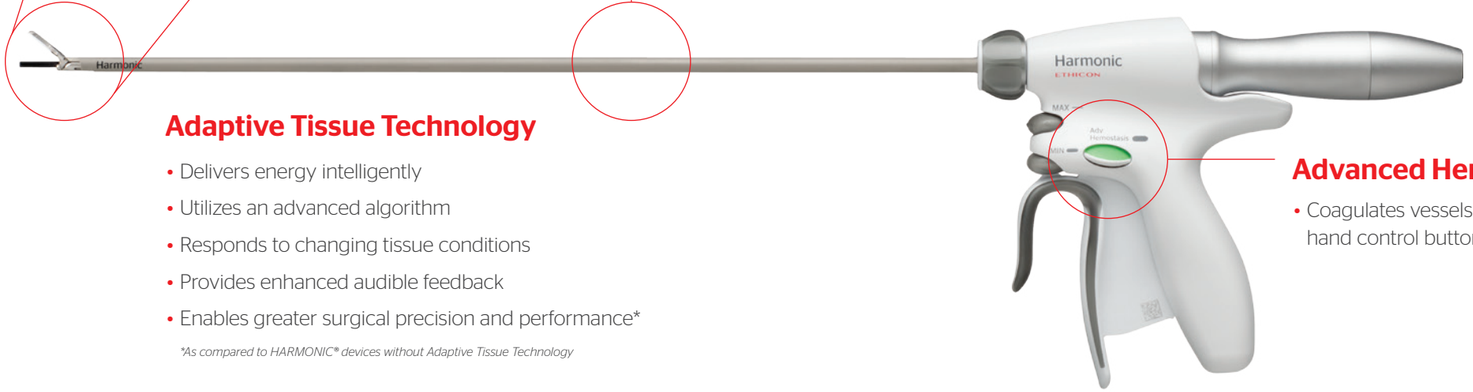
Uniting **unmatched precision** with **powerful sealing** ability, HARMONIC ACE+ 7 Shears are designed for a wider range of surgical jobs to reduce the number of surgical devices needed to achieve hemostasis.

Refined blade design

- Tapered tip designed for precision and multifunctionality
- Features a proprietary nonstick coating

Available in 3 shaft lengths

- 23 cm, 36 cm, and 45 cm



Adaptive Tissue Technology

- Delivers energy intelligently
- Utilizes an advanced algorithm
- Responds to changing tissue conditions
- Provides enhanced audible feedback
- Enables greater surgical precision and performance*

**As compared to HARMONIC® devices without Adaptive Tissue Technology*

Advanced Hemostasis mode

- Coagulates vessels up to 7 mm in diameter with the use of the Advanced Hemostasis hand control button

Designed to **outperform the competition**

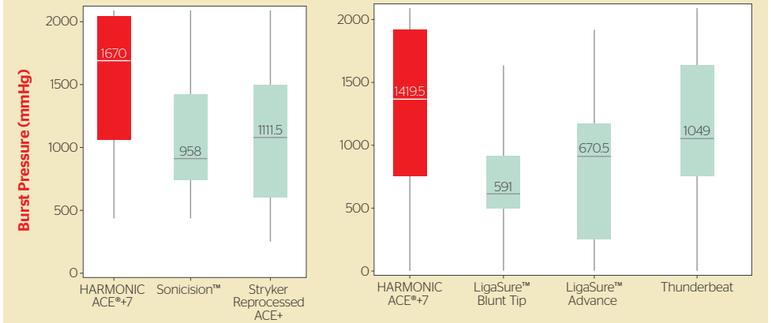
World-class precision with secure and reliable vessel sealing across a wide range of vessels

The median burst pressures of HARMONIC ACE®+7 Shears in Advanced Hemostasis mode were:

- 140% higher than LigaSure™ 5 mm Blunt Tip*
- 112% higher than LigaSure™ Advance*
- 74% higher than Sonicision™**
- 50% higher than Stryker Reprocessed ACE+**
- 35% higher than Thunderbeat*

Stronger vessel sealing versus Covidien, Stryker and Olympus

Benchtop burst pressure testing in porcine carotid arteries



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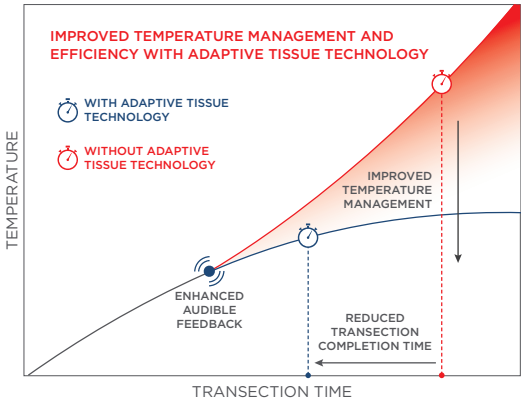
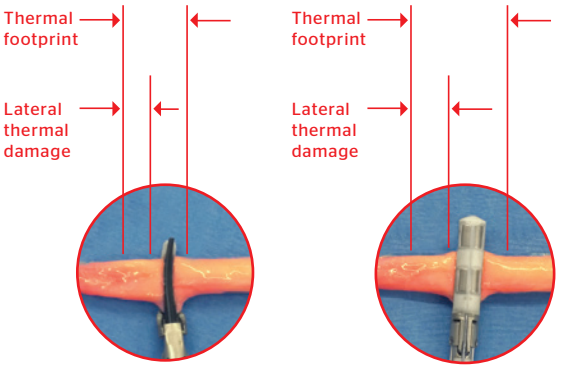
*In a bench-top study with 5-7mm porcine carotids that compared median burst pressure, HARMONIC ACE®+7 versus: Thunderbeat (Seal and Cut mode) (p=0.05) (C1871); LigaSure™ Advance (p< 0.001) (C1591); LigaSure™ 5mm Blunt Tip (p< 0.001) (C1587).
**In a bench-top study with 3-5mm porcine carotids that compared median burst pressure, HARMONIC ACE®+7 versus: Stryker reprocessed HAR36 at Power Level 3 (p=0.0007) (C1875); Sonicision™ (Min power level) (p=0.0004) (C1870).

Harmonic

The value of **intelligent energy delivery**

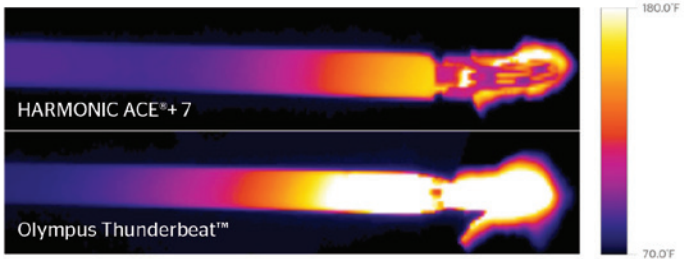
Adaptive Tissue Technology provides critical thermal management during surgery by dynamically optimizing energy delivery in response to changing tissue conditions, enabling greater surgical precision and performance.





HARMONIC ACE®+ 7 **thermal damage is 18% smaller** than LigaSure™ 5mm Blunt Tip[1]

HARMONIC ACE®+ 7 **thermal footprint is 36% smaller** than LigaSure™ 5mm Blunt Tip[2]



The distal shaft of Thunderbeat is **39% hotter** than HARMONIC® devices with Adaptive Tissue Technology.[4]

HARMONIC ACE®+ 7 is **significantly more consistent in regulating distal shaft** heat compared to Thunderbeat[3]

Product Code	Description	Quantity/Sales Unit
HARH23	HARMONIC ACE®+7 Open 5mm Diameter Shears, 23cm Length with Advanced Hemostasis	6
HARH36	HARMONIC ACE®+7 Laparoscopic 5mm Diameter Shears, 36cm Length with Advanced Hemostasis	6
HARH45	HARMONIC ACE®+7 Laparoscopic 5mm Diameter Shears, 45cm Length with Advanced Hemostasis	6

1. In a preclinical study on 5-7mm goat carotids (n=76) that compared the mean thermal damage via histology of HARMONIC ACE® + 7 in Advanced Hemostasis mode vs LigaSure™ Blunt Tip (LF1537) (2.54 [±0.48] mm vs. 3.08 [±0.67] mm, respectively, p=0.003). Data on file, Ethicon Endo-Surgery (PSP003910, PSP003620, PCS0000215). (C1647) **2.** In a preclinical study on 5-7mm goat carotids (n=38) that compared the mean thermal footprint via histology of HARMONIC ACE® + 7 in Advanced Hemostasis mode vs LigaSure™ Blunt Tip (LF1537) (6.48 [±0.81] mm vs. 10.07 [±1.12] mm, respectively, p<0.001). Thermal footprint = left thermal damage + jaw width + right thermal damage. Data on file, Ethicon Endo-Surgery (PSP003909, PSP003620, PCS0000215). (C1644) **3.** In a bench-top study on porcine jejunum, Thunderbeat (Seal and Cut mode) exhibited 38.6% higher mean shaft temperature (Celsius) vs. Ethicon ACE devices with Adaptive Tissue Technology at Max Power Level 5 (p<0.001). (C1932) **4.** In a bench-top study on porcine jejunum, Thunderbeat (Seal and Cut mode) exhibited 38.6% higher mean shaft temperature (Celsius) vs. Ethicon ACE devices with Adaptive Tissue Technology at Max Power Level 5 (p<0.001). (C1944)

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