

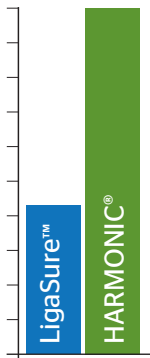
## HARMONIC ACE®+7 Shears with Advanced Hemostasis The Latest Breakthrough in Ultrasonic Technology



### HARMONIC ACE®+7 – Superior Sealing Results

HARMONIC ACE®+7 represents a breakthrough in ultrasonic technology, combining the world-class precision inherent in HARMONIC® devices, and now with superior sealing results.

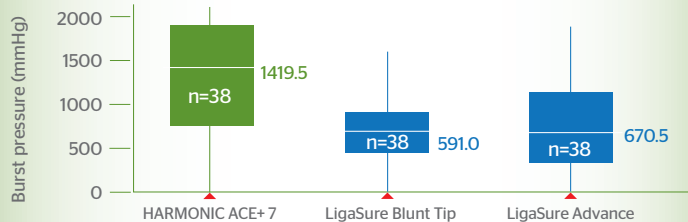
- Greater 5 to 7 mm vessel-sealing reliability than LigaSure devices<sup>1</sup>
- 112% higher median burst pressure vs LigaSure Advance™, when sealing 5 to 7 mm vessels in the Advanced Hemostasis mode<sup>2</sup>



**140% higher median burst pressure**  
vs LigaSure 5 mm Blunt Tip, when sealing 5 to 7 mm vessels in the Advanced Hemostasis mode<sup>3</sup>

### Stronger large-vessel sealing versus LigaSure Blunt Tip and Advance

Benchtop burst pressure in porcine carotid arteries up to 7 mm



Minimum burst pressure per vessel.<sup>4</sup>

### Use of HARMONIC® Devices in Surgery

HARMONIC® technology, the proven leader in advanced energy with more than 16 million procedures worldwide.<sup>5</sup> HARMONIC® is the leading ultrasonic technology for precise delivery of energy. HARMONIC® technology is supported by more than 1,000 peer-reviewed clinical articles, more than any other Advanced Energy device.<sup>6</sup>



**16 MILLION**  
**HARMONIC®**  
PROCEDURES  
WORLDWIDE

### The Second Generation of Adaptive Tissue Technology

Advanced Hemostasis mode reliably seals large vessels up to 7 mm in diameter with the Advanced Hemostasis hand control button.\*

Proprietary algorithm actively monitors the instrument during use, and enables the system to sense and respond appropriately to changes in patient tissue conditions.

Intelligent energy modulation delivers improved performance and the precision you expect from HARMONIC®.

### HARMONIC® Portfolio – Precision Across Multiple Procedures

Ethicon has been the leader in energy-based surgical devices since 1992, with the introduction of HARMONIC® technology. HARMONIC® technology is designed for use in numerous procedures and specialties, enhancing surgeons' ability to handle multiple jobs with superior precision, including:



**COLORECTAL SURGERY**



**GENERAL SURGERY**



**BIARIATRIC SURGERY**



**GYNECOLOGY**



**THORACIC SURGERY**



**UROLOGY**

<sup>1</sup> In benchtop test using 5 to 7 mm porcine carotids that compared median burst pressure for HARMONIC ACE+7 (1410 mmHg) and LigaSure 5 mm Blunt Tip (574 mmHg) (P < 0.001). Data on file (PRCO64872).

<sup>2</sup> In benchtop test using 5–7mm porcine carotids that compared median burst pressure for HARMONIC ACE®+7 (1419.5 mmHg) and LigaSure™ Advance (670.5 mmHg) (p < 0.001). Data on file (PRCO64872B).

<sup>3</sup> In benchtop test using 5–7mm porcine carotids that compared median burst pressure for HARMONIC ACE®+7 (1419.5 mmHg) and LigaSure™ 5mm Blunt Tip (591.0 mmHg) (p < 0.001). Data on file (PRCO64872B).

<sup>4</sup> Source: Data on file. Ethicon, Inc. Engineering Study PRCO64872B

<sup>5</sup> Internal sales data as of June 10, 2013.

<sup>6</sup> As per a literature search conducted in MEDLINE® and Embase™ between 01/01/1990 and 10/01/2012 that identified publications which specifically discussed a given product within an article. Data on file.

\* As per IFU.