



**Senhance® Ultrasonic** enables surgeons to perform fast, precise tissue dissection and vessel sealing



**Senhance® Ultrasonic**  
**Digital Laparoscopy with Advanced Energy**

## Vessel Sealing Capability

Using torsional ultrasonic energy, Senhance Ultrasonic directs focused energy towards the targeted tissue where the surgeon needs to create a haemostatic seal. Senhance Ultrasonic seals vessels up to and including 5 mm in diameter,<sup>1</sup> with seal strength characterized by median burst pressures measured at 1,286 mmHg.<sup>2</sup> Strong vessel sealing performance makes Senhance Ultrasonic an essential tool for complex procedures.

1. Claim confirmed in a benchtop study, porcine carotid arteries (n=300) measuring 3 - 5.5mm in diameter were sealed, divided, and pressurized with saline using an inflation system. (PPT-001-00075; c1)
2. Senhance Ultrasonic is capable of sealing vessels with a measured median burst pressure of 1,286 mmHg. (PPT-001-00075; c3)



## Torsional Ultrasonic Energy

The advantages of torsional ultrasonic energy are now integrated into a digital laparoscopic platform. Senhance Ultrasonic allows the surgeon to perform precise dissection with minimized thermal spread to the non-targeted tissues.

Eye trackers supplied by Tobii.

The Senhance System was developed under a license of the European Commission Joint Research Centre.

Products may not be available in all markets and indications for use vary by region. Please visit [www.asensus.com/indications-for-use](http://www.asensus.com/indications-for-use) or contact your local representative for information about your area.

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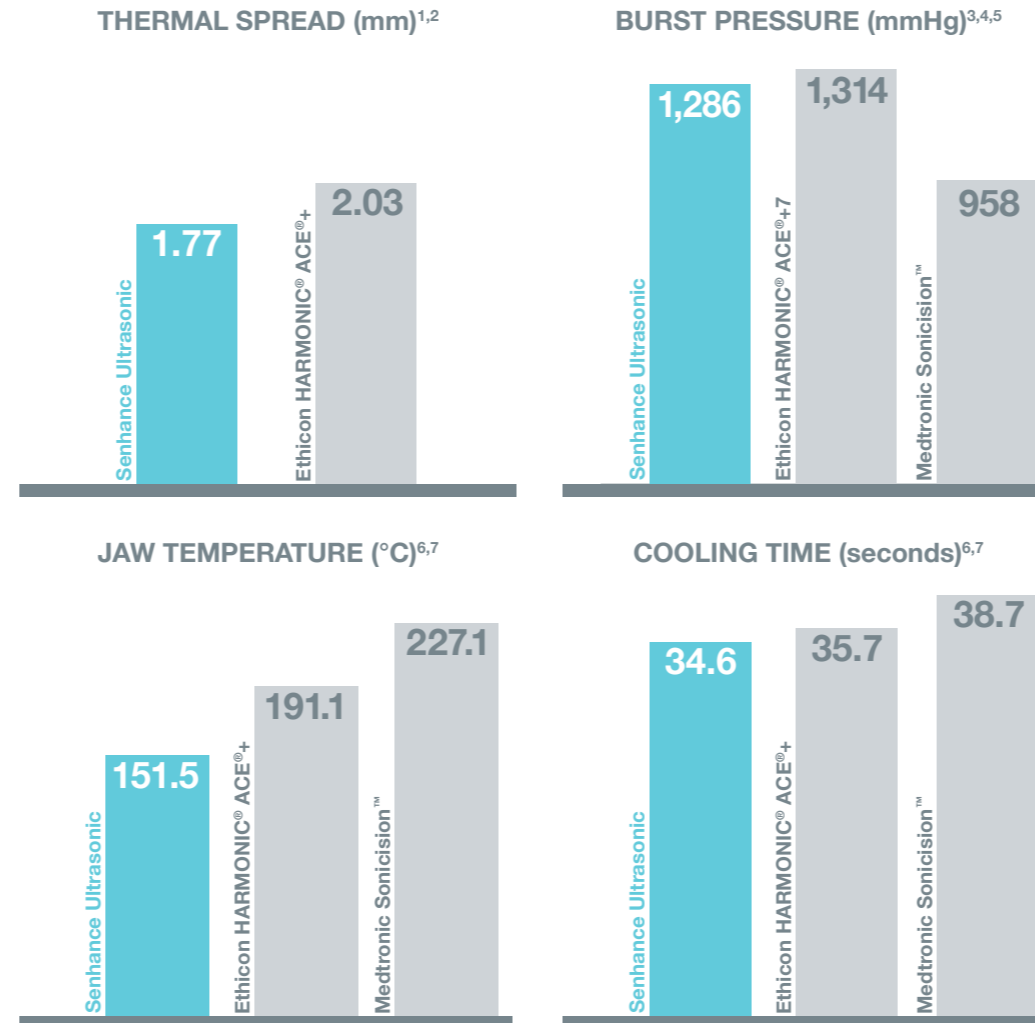
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# The Senhance® Surgical System is ushering in a new era of minimally invasive surgery called digital laparoscopy

The Senhance Surgical System is digitizing laparoscopy by integrating advanced technology—robotic precision, haptic sensing, eye-tracking camera control, and improved ergonomics—with skilled laparoscopists while focusing on responsible economics. The open-platform architecture allows for compatibility with 3DHD and fluorescence vision systems along with other existing hospital investments in laparoscopy.



## Reliable Performance



Data presented not part of head-to-head studies. See references for individual study design, methods, and results.

1. Data on file (REC-020-01169).
2. Chen J, et al. Validation of a laparoscopic ferromagnetic technology-based vessel sealing device and comparative study to ultrasonic and bipolar laparoscopic devices. *Surg Laparosc Endosc Percutan Tech* 2017; Apr;27(2):e12-e17. doi: 10.1097/SLE.0000000000000385.
3. Data on file (REC-020-00880).
4. Timm RW, et al. et al. Sealing vessels up to 7 mm in diameter solely with ultrasonic technology. *Med Devices (Auckl)*. 2014; 7:263-271.
5. <https://www.ethicon.com/na/products/energy-sealing-and-dissecting/ultrasonic-shears/harmonic-ace7-shears-advanced-hemostasis> Downloaded 05 March 2019.
6. Data on file (REC-020-00787).
7. Kim FJ, et al. Evaluation of emissivity and temperature profile of laparoscopic ultrasonic devices (blades and passive jaws). *Surg Endosc* 2015 May;29(5):1179-84. doi: 10.1007/s00464-014-3787-0. Epub 2014 Aug 27.

## Senhance Ultrasonic Instruments and Accessories

### Ordering Information

SENHANCE ULTRASONIC INSTRUMENTS	DESCRIPTION	ORDER CODE	QTY/BOX
	Ultrasonic Dissector (5.5 mm x 370 mm)	X9007619	10 (single use)
	Ultrasonic Transducer (cable length 3 m)	X9007620	1 (reusable)
	Ultrasonic Adapter	X9007618	1 (reusable)
	Ultrasonic Generator	X9007621	1
	Ultrasonic Footswitch (cable length 10 m)	X9007641	1

DESCRIPTION	ORDER CODE
LOTUS® Reprocessing Basket* (550 x 150 x 77 mm)	X9007654 (BOWA REF 773-984)
InstruSafe Sterilization Tray for Senhance Ultrasonic - Wrap (66 cm L x 15.3 cm W x 9.8 cm H)	X0008282
InstruSafe Sterilization Tray for Senhance Ultrasonic - Container (66 cm L x 15.3 cm W x 9.8 cm H)	X0008354
Ultrasonic System Power Cable (Type B, 3 m)**	X9007655
Ultrasonic System Power Cable (Type F, 3 m)**	X9007656
Ultrasonic System Power Cable (Type G, 3 m)**	X9007657