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.

Senhance® Ultrasonic

Ordering Information

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

Accessories

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

*LOTUS is a registered trademark of SRA/Bowa. TransEnterix is a distributor of LOTUS Reprocessing Basket.
**Please Note: Power cables must be ordered separately from Ultrasonic Generator to assure regional compatibility.

The Senhance® Ultrasonic Surgical System and Accessories are intended for soft tissue surgical incisions when bleeding control and minimal thermal injury are important and sealing of vessels up to and including 5 mm in diameter.

Senhance® is CE marked according to the MDD and is intended to be used for laparoscopic surgery in the abdomen, pelvis and limited uses in the thoracic cavity excluding the heart and greater vessels of adults. The device is restricted to sale by or on the order of a physician. TransEnterix Italy is the legal manufacturer for CE purposes.
Eye trackers supplied by Tobii.

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

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Senhance® Ultrasonic

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

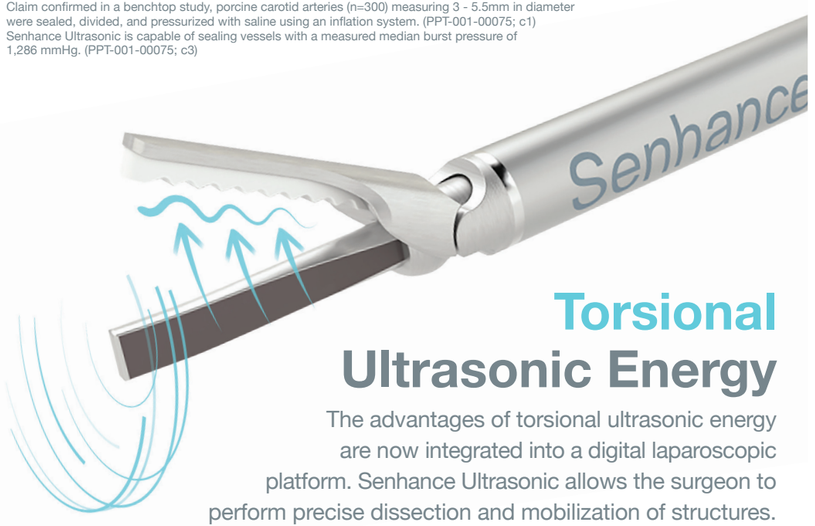
Senhance® Ultrasonic

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,[1] with seal strength characterized by median burst pressures measured at 1,286 mmHg.[2] Strong vessel sealing performance makes Senhance Ultrasonic an essential tool for complex procedures.

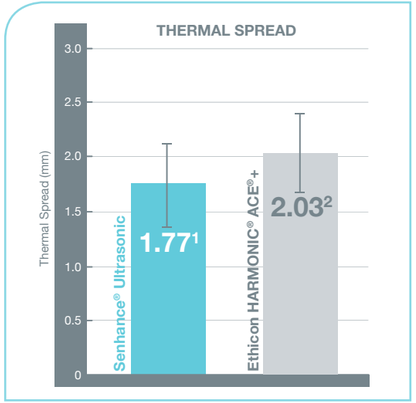
1. Claim confirmed in a benchtop study, porcine carotid arteries (n=300) measuring 3 - 5.5mm in diameter were sealed, divided, and pressurized with saline using an inflation system. (PPT-001-00075; c1)
2. Senhance Ultrasonic is capable of sealing vessels with a measured median burst pressure of 1,286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

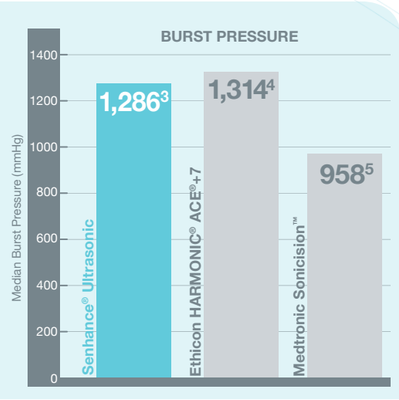


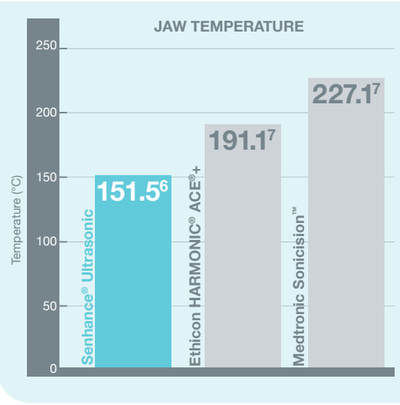
Torsional Ultrasonic Energy

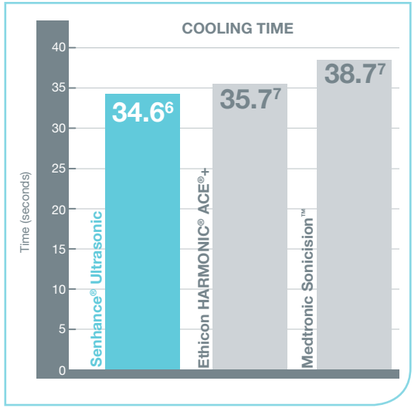
The advantages of torsional ultrasonic energy are now integrated into a digital laparoscopic platform. Senhance Ultrasonic allows the surgeon to perform precise dissection and mobilization of structures.

Reliable Performance



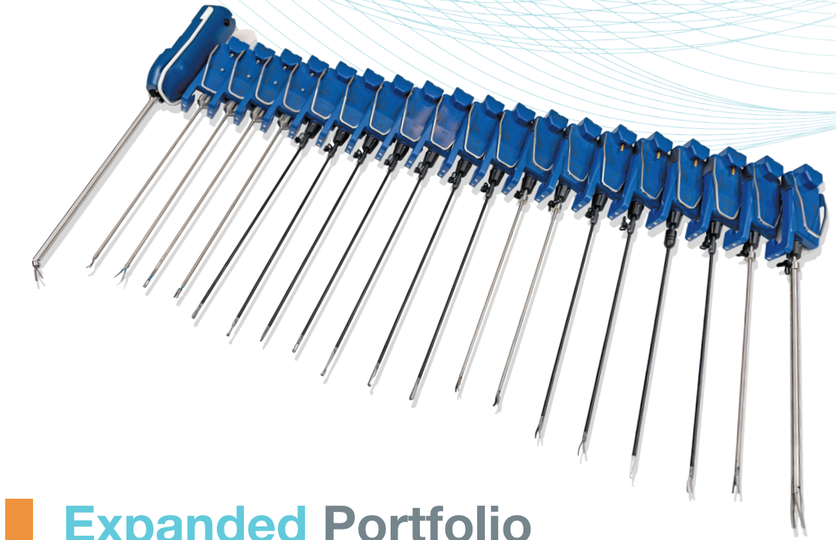






Data presented not part of head-to-head studies. See references for individual study design, methods, and results.

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.



Expanded Portfolio

Senhance Ultrasonic joins a growing portfolio of digital laparoscopic instruments that enables the surgeon to perform clinical procedures in the specialties of gynaecology, urology, general, colorectal and thoracic surgery. The Senhance portfolio includes a broad range of 3 mm and 5 mm instruments, and a range of articulating instruments.