

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® Articulating Enhancing Surgical Accessibility and Efficiency

Senhance® Articulating introduces 5 mm articulating instruments to the Senhance® instrument portfolio.

Senhance® Articulating improves accessibility and reach around critical structures when working in deep anatomical spaces whilst optimizing OR efficiency by enabling the surgeon to confidently perform the procedure from the Senhance® surgeon cockpit.

Increased Accessibility: Combining articulation and haptics enables improved access to critical structures by providing real time feedback and control.

Improved Functionality: 5 mm articulation delivers an increased range of motion by allowing 7 degrees of freedom, including 63° of articulation and independent rotation of instrument tip and shaft

OR Efficiency: Articulating instruments build on laparoscopic skills allowing the surgeon to stay focused on the surgical site and complete complex procedural steps end-to-end from the surgeon cockpit enabling more control and efficiency.

5 mm Senhance Articulating instruments may be used with traditional trocars for simple port site closure

Traditional 8 mm robotic instrument footprint

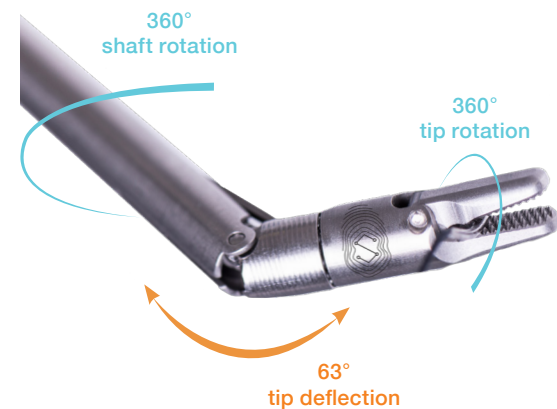
	Traditional Laparoscopy	Traditional Robotics*	Senhance® Articulating
Degrees of Freedom	4	7	7
Instrument Diameter	5mm	8mm	5mm
Bipolar Energy	Yes	Yes	Yes
Infinite Roll of Instrument Tip	N/A	No	Yes
Laparoscopic Motion	Yes	No	Yes

*Refers only to 8mm EndoWrist instrumentation

Surgeon Control

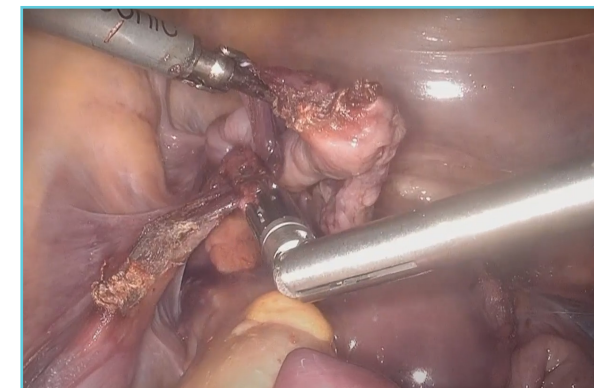
Senhance Articulating introduces additional degrees of freedom to the Senhance instrument portfolio, affording the surgeon greater precision while operating. Laparoscopic motion is preserved with Senhance Articulating with the introduction of novel means of deflecting the instrument's tip through the rotation of the handle.

- 7 degrees of freedom
- Tip deflection up to 63 degrees
- Infinite and independent roll of end effector
- Dynamic and locked deflection options set by surgeons



Bipolar Energy






The Senhance Articulating Atraumatic Grasper delivers effective bipolar energy, localizing the electro-surgical application and minimizing the risk of stray current injuries. Connect the Senhance Articulating instrument to any bipolar electro-surgical unit to claim the hemostatic security in highly vascular areas.



Senhance® Articulating Ordering Information

Senhance® Articulation functionality requires 2.7 software, enabled by the Intelligent Surgical Unit™. Please consult your clinical sales representative for details.

Instruments, Adapters & Couplers

SENHANCE® ARTICULATING INSTRUMENTS	DESCRIPTION	PART NUMBER
	Senhance® Bipolar Atraumatic Grasper, Articulating (Single-use, Box of 5)	X9007729
	Senhance® Needle Driver, Articulating (Single-use, Box of 5)	X9007730
	Senhance® Articulating Instrument Coupler, Atraumatic Grasper (reusable, sterilizable)	X9007758
	Senhance® Articulating Instrument Coupler, Needle Holder (reusable, sterilizable)	X9007759
	Senhance® Articulating Instrument Adapter, (reusable, requires drape)	X9007755

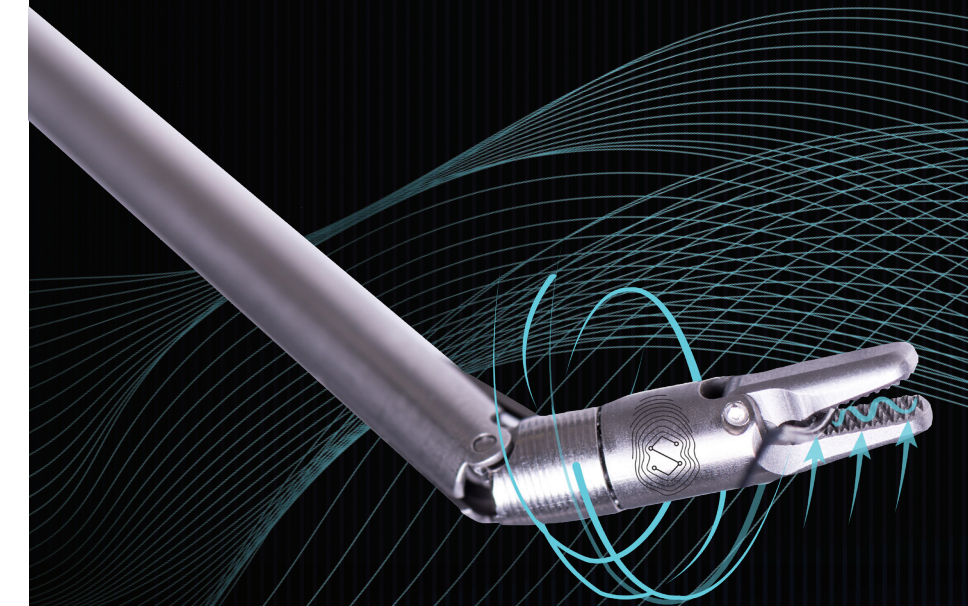
Articulating Accessories

DESCRIPTION	PART NUMBER
Bissinger, Bipolar Cable, 2-pin plug (angled), for ValleyLab	X0009205
Bissinger, Bipolar Cable, U.S. Forceps (angled), for Erbe, 5m	X0008315
Articulating Drape (Box of 30)	X9007760
USB-C LIA Drape (Box of 30)	X9007763

Indications for Use: Senhance® Articulating introduces single-use instruments and is used in conjunction with the Senhance® Surgical System.



Enhancing Surgical Accessibility
and Efficiency



Senhance® Articulating

Digital Laparoscopy with 5 mm Articulating Instruments

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 or contact your local representative for information about your area.

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BRO-001-00223.001 - 01.2024



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