

EndoWrist® *One*™ Vessel Sealer for the *da Vinci Si*™ System

Fully wristed vessel sealing and cutting enhanced by the unparalleled precision of the *da Vinci* System



Demonstrated Clinical Value

Colorectal Surgery

da Vinci Low Anterior Resection • da Vinci Colectomy

"EndoWrist[®] One™ Vessel Sealer is the next evolutionary step in robotic surgery, allowing the surgeon control of the vascular supply of the intestine without losing maneuverability and dexterity."

Jorge Lagares-Garcia, MD
Chief of the Division of Colon and Rectal Surgery
Roper Hospital • Charleston, SC

"The addition of the new EndoWrist One Vessel Sealer instrument in da Vinci Colorectal procedures is a significant step. The seal performance, thermal spread and sealing times of the instrument are equivalent to other leading seal and cut devices and that's great. However, the full pitch and yaw articulation packaged with the precision of the da Vinci Si System takes this instrument to the next level, providing significantly better access and control of the target anatomy. This has clearly added value to my procedures."

Eduardo Parra-Davila, MD
Medical Director, Minimally Invasive and Colorectal Surgery
Medical Director, Hernia and Abdominal Wall Reconstruction • Florida Hospital Celebration Health

General Surgery

da Vinci Splenectomy • da Vinci Sleeve Gastrectomy • da Vinci Gastrectomy • Other Foregut procedures

"I can do so much with the EndoWrist One Vessel Sealer; it's a truly versatile instrument. The sealing is exceptional.... 50-60cc EBL is unheard-of in a challenging splenectomy case. The instrument grasps omentum and parts of the greater curvature of stomach really well and the dissection is excellent, particularly in and around the splenic hilum and the splenic vessels. This is exciting."

Jorge R. Rabaza, MD, FACS, FASMBS
Chief of Surgery, South Miami Hospital • Clinical Professor, FIU School of Medicine, General and Bariatric Surgery

"Sleeve gastrectomy is a great procedure for the EndoWrist One Vessel Sealer. The hemostasis on short gastrics is excellent and there is very little thermal spread. The full articulation on the instrument along with its ability to grasp and manipulate tissues makes it a very versatile instrument."

Keith Kim, MD
Medical Director, Metabolic Medicine and Surgery Institute • Florida Hospital Celebration Health

Gynecologic Surgery

da Vinci Hysterectomy, Cancer • da Vinci Hysterectomy, Benign

"The best part about the EndoWrist One Vessel Sealer is that now I have direct control of the seal and cut instrument through my da Vinci console. And I can perform the same task with greater precision using a fully wristed instrument. The bottom line for me is that it provides excellent seal quality and minimal thermal spread."

Ricardo Estape, MD
Medical Director • Center for Robotic Surgery, South Miami Hospital

"The EndoWrist One Vessel Sealer is clearly more efficient than traditional bipolar, with less smoke and an integrated cutting blade that allows quicker progress through tissue such as the broad ligament and omentum. The seal quality looks great and it has minimal thermal spread based on visual cues. While proper identification of anatomy remains paramount in gynecologic surgery, this seal and cut device should offer an additional element of safety when operating in close proximity to bowel, bladder, or ureters."

Robert W. Holloway, MD, FACOG, FACS
Director Gynecologic Oncology • Florida Hospital Cancer Institute & Global Robotics Institute

Enabling Technology

The *EndoWrist One* Vessel Sealer is a fully wristed instrument, enabling an optimized approach for sealing and cutting of vessels up to 7 mm in diameter and tissue bundles. Available exclusively for the *da Vinci Si* System, the *EndoWrist One* Vessel Sealer is a single-use 8 mm instrument, providing a pristine sealing surface and cutting blade for effective performance in each procedure.

Uncompromised Access & Control

Fully wristed articulation allows surgeons to approach anatomy at optimal angles for effective sealing performance with hallmark *da Vinci* precision, dexterity and control.

Optimal Flexibility & Efficiency

Independent seal/cut functions along with transection boundary indicator facilitates efficient seal with confident transection, plus affords surgeons flexibility to assess the seal prior to cut.



Wristed 50° articulation

Dissecting tip

Transection boundary

Dual-hinged jaws

Remarkable Versatility

Dual-hinged, thermally isolated jaws with 40° opening angle and unique tip profile offer efficient dissection.

16 mm surface

Grasping tooth

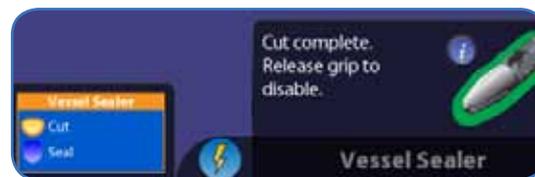
Exceptional Seal Quality

16 mm length sealing surface and consistent, computer-controlled closing pressure ensure excellent tissue sealing.



Proven Sealing Technology

The Vessel Sealer and Stapler* Vision Cart Upgrade includes the ERBE VIO 300D specially configured for the *da Vinci* system. Its optimized algorithm offers reliable sealing and minimal thermal spread.



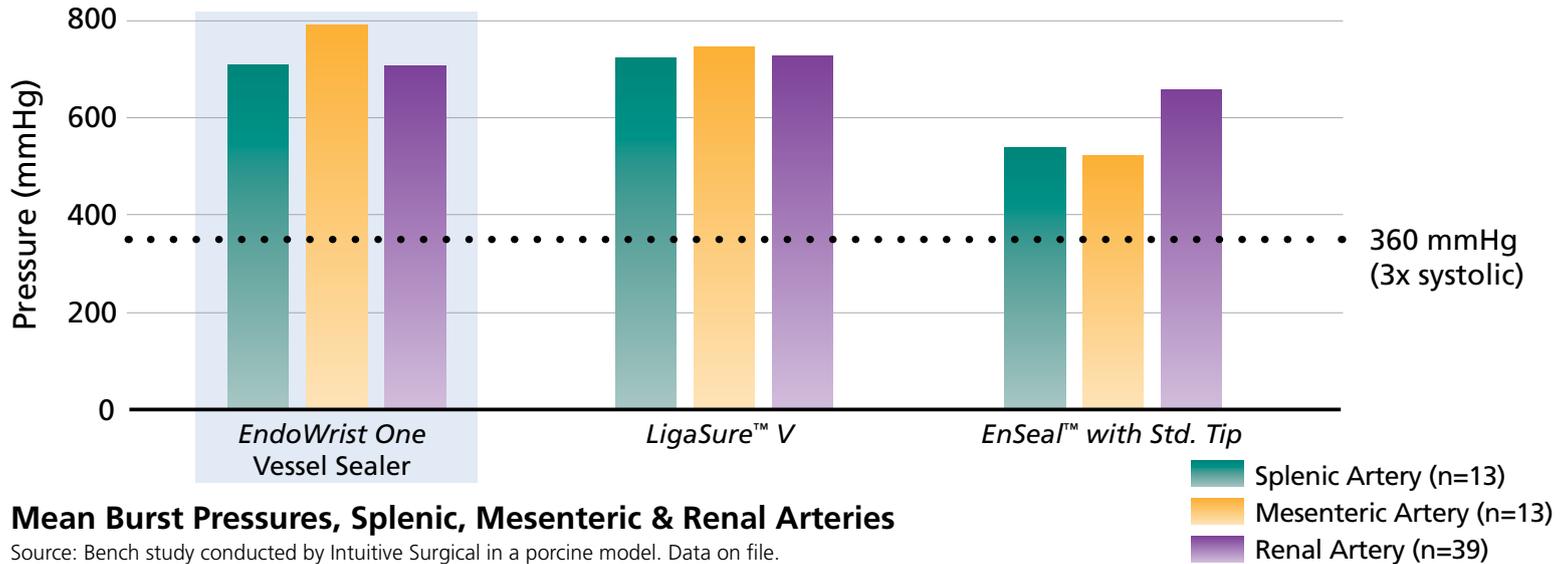
Unparalleled Ease of Use

Real-time system self-checks and onscreen feedback keeps the surgeon informed

**EndoWrist Stapler 45 System* is pending FDA 510(k) clearance

Reliable Performance

Equivalent Burst Pressure - Well Above 3x Systolic



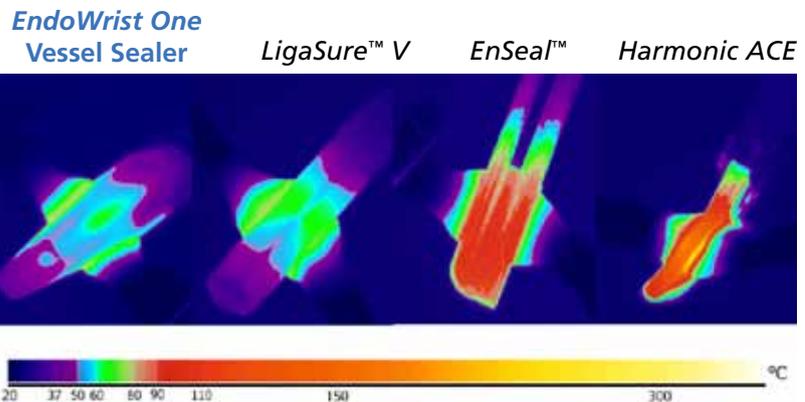
Equivalent Minimal Thermal Spread

Histopathologic assessment of seal samples from *EndoWrist One* Vessel Sealer, *LigaSure V* and *EnSeal* PTC confirmed that **“Thermal spread to the adjacent nerve bundles and small vascular network, when present, was confined within 1-2 mm perimeter.”**

Source: Histopathologic study conducted by independent third party on vessel seal samples created by Intuitive Surgical in a porcine model. Report on file.

Jaw Temperature Profiles

EndoWrist One Vessel Sealer temperature profile compared with those of competitive vessel sealers



Source: Thermal imaging study conducted by Intuitive Surgical on ex-vivo tissue samples. Temperature profile images are captured at the end of activation cycle for each device. Report on file.

Unmatched Capability on Critical Attributes

	<i>EndoWrist One</i> Vessel Sealer	<i>LigaSure V</i> or New 5 mm	<i>EnSeal</i> with Std Tip
7 mm seal and cut claim	●	●	●
> 360 mmHg (3x systolic) burst pressure	●	●	●
1-2 mm lateral thermal spread	●	●	●
Independent seal and cut functions	●	●	
Wristed (with full pitch and yaw articulation) for optimal access	●		
Precision and stability with tremor filtration	●		
Dual-hinged Jaw (40° opening angle)	●		
Real-time system checks and onscreen user feedback	●		



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To contact a representative or receive additional information, please
call Intuitive Surgical Customer Service at 1-877-408-3872.

Ordering Information

<i>da Vinci Si</i> PN	Part Description	Packaging
410322	<i>EndoWrist One</i> Vessel Sealer, Single-use	6 per box

Contact Intuitive Surgical Customer Service for ordering information for the Vessel Sealer and Stapler* vision cart upgrade.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

EndoWrist One™ Vessel Sealer is FDA-cleared for bipolar coagulation and mechanical transection of vessels up to 7 mm in diameter and tissue bundles that fit in the jaws of the instrument. Inadvertent electrosurgical energy may cause serious injury or surgical complications to the patient. It is important to ensure a full understanding of the *da Vinci* System energy user interface and use caution when working near critical anatomy. Data should be considered preliminary until published in a peer-reviewed journal. The clinical information and opinions expressed in this material by the participants, including any inaccuracies or mistakes, belong solely to the individual participants. The information and opinions are not necessarily those of Intuitive Surgical, Inc. While clinical studies support the use of the *da Vinci* Surgical System as an effective tool for minimally invasive surgery, individual results may vary. Before performing any clinical procedure utilizing the System, physicians are responsible for receiving sufficient training and proctoring to ensure that they have the requisite training, skill, and experience necessary to protect the health and safety of the patient. For technical information, including full cautions and warnings on using the *da Vinci* System, please refer to the System User Manual. Read all instructions carefully. Failure to properly follow instructions, notes, cautions, warnings, and danger messages associated with this equipment may lead to serious injury or complications for the patient. © 2012 Intuitive Surgical. All rights reserved. *Intuitive*, *Intuitive Surgical*, *da Vinci*, *da Vinci S HD*, *da Vinci Si*, *InSite*, *TilePro* and *EndoWrist* are trademarks or registered trademarks of Intuitive Surgical. All other product names are trademarks or registered trademarks of their respective holders. PN 874939 Rev. B 7/12

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