

INTUITIVE

Da Vinci Energy Portfolio

Powerful advances
for increased efficiency.



Intuitive da Vinci Energy

Powerful advances for increased efficiency.

Maximize efficiency without sacrificing results with the precision and versatility offered by Intuitive da Vinci Energy products.

Start with the first complete high-frequency generator designed for robotic surgery. Pair it with advanced instruments that enable rapid sealing¹ while keeping temperatures low.² Or choose from a selection of monopolar and bipolar instruments finely tuned for excellent energy delivery. All seamlessly integrated to enable controlled energy delivery and optimized performance.

With Intuitive da Vinci Energy, you can take charge of energy that's quicker³, and effective in more ways than one.

1. Average sealing time of less than 3 seconds using Vessel Sealer Extend or SynchroSeal with the E-200 Generator. Data on file at Intuitive.
2. Based on activation times and cool down temperatures: SynchroSeal with E-200 is compared to Harmonic ACE+7, VSE with E-200 is compared to VSE with ERBE VIO dV. Data on file at Intuitive.

3. Compared to Vessel Sealer Extend on ERBE VIO dV. Data on file at Intuitive.



The da Vinci E-200 Generator

Singularly versatile. Seamlessly integrated.

Complete robotic cases from first incision to closure using a single generator. The da Vinci E-200 Generator is finely tuned for excellent energy delivery. It seamlessly integrates into an existing robotic surgical workflow to deliver high-frequency energy for cutting and coagulation, while enabling rapid sealing times¹ at low temperatures.²

Use monopolar, bipolar, and advanced energy instruments with fast vessel sealing.³

Use watt-based energy delivery commonly used in other generators on the market.

Adjust energy settings for each individual energy port.

Save up to 3 preferred energy settings to quickly switch in the middle of or between cases.

E-200 easily integrates with da Vinci surgical systems and cloud login profiles.

E-200 gives you the option to work with third-party lap and open energy instruments.⁴



1. Compared to ERBE VIO dV.
2. Vessel Sealer Extend with E-200 compared to Vessel Sealer Extend with ERBE VIO dV.
3. Average sealing time of less than 3 seconds using Vessel Sealer Extend and E-100 and E-200, and less than 2 seconds using SynchroSeal and E-100 and E-200. Data on file at Intuitive.

4. Da Vinci Monopolar and Bipolar Adapters are available for purchase if needed.

6 monopolar modes, 4 bipolar modes, and 3 advanced energy modes

Monopolar Cut (0–120 W)	Monopolar Coagulation (0–120 W)	Bipolar Energy (0–95 W)	Advanced Bipolar (automatically determined)
Pure	Precise	Low with Auto Stop	Coagulation
Blend	Fulgurate	Low	Sealing
	Spray	Standard	Sync
	Low	Macro	

Advancing energy performance for increased efficiency

Feature	Erbe VIO dV	E-100	E-200
Industry standard energy settings (watts)	X	X	✓
Complete generator: monopolar, bipolar, and advanced energy	✓	X	✓
Fast vessel sealing ¹	X	✓	✓
Vessel sealing peak temperature less than 51° C ²	X	✓	✓
Vessel sealing cool down time (to 40° C) less than 23 seconds ²	X	✓	✓
Monopolar Precise mode	X	X	✓
Additional bipolar modes	X	X	✓
Energy presets	✓	X	✓
Individual energy settings for each energy port	X	X	✓
Energy settings optimized with da Vinci instruments	X	✓	✓
Laparoscopic instrument compatibility (monopolar and bipolar)	✓	X	✓
Power delivery for monopolar and bipolar modes	Adaptive	NA	Constant

1. Average sealing time of less than 3 seconds using Vessel Sealer Extend and E-100 and E-200, and less than 2 seconds using SynchroSeal and E-100 and E-200. Data on file at Intuitive.

2. Vessel Sealer Extend with the E-200 and E-100 compared to Vessel Sealer Extend with ERBE VIO dV. Data on file at Intuitive.

Vessel Sealer Extend

Performance you expect. Speed that you don't.¹

Securely seal and cut vessels up to 7 mm in diameter and tissue bundles that fit in the jaws. With an average sealing time of fewer than three seconds², Vessel Sealer Extend may potentially improve efficiency during your surgical case.³

01

Optimize dissection and tissue manipulation with a 30% slimmer jaw profile.⁴

02

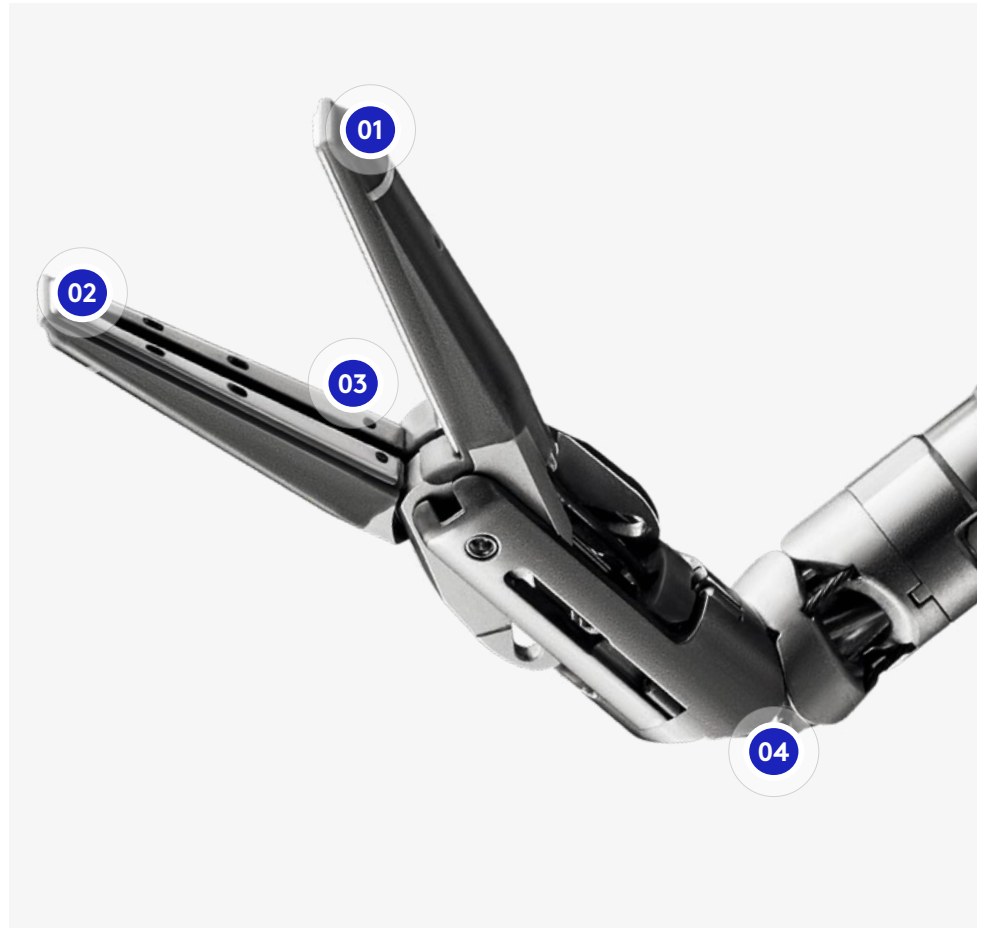
Extend your seal and spot coagulate with a 3 mm longer electrode.⁴

03

Reduce the need for an extra grasper with the stronger grip provided by a textured surface.²

04

Access vessels with 60° of fully wristed articulation, and create secure 90° seals and effective cuts.²



1. Compared to Vessel Sealer Extend with ERBE VIO dV.

2. Data on file at Intuitive.

3. Compared to Vessel Sealer Extend with ERBE VIO dV in terms of seal activation times.

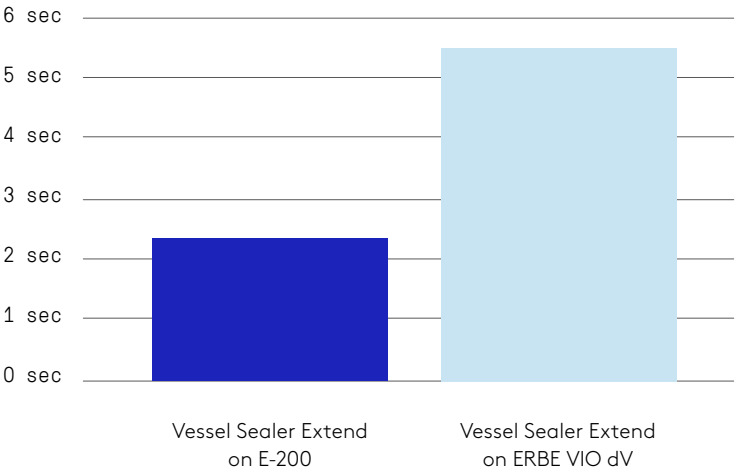
4. Compared to EndoWrist Vessel Sealer. Data on file at Intuitive.

See what sets Vessel Sealer Extend on E-200 apart

Maximize efficiency

With the E-200 Generator from da Vinci Energy, Vessel Sealer Extend can seal in fewer than 3 seconds compared to Vessel Sealer Extend with the ERBE VIO dV generator.¹

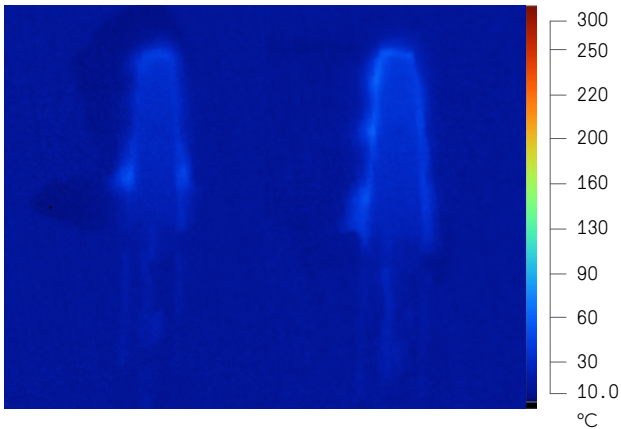
Average Seal Time



Keep your temperatures even lower

Vessel Sealer Extend operates at a cooler jaw temperature with E-200 than with ERBE VIO dV.¹

E-200 ERBE VIO dV
50.8° C peak temperature 64.8° C peak temperature



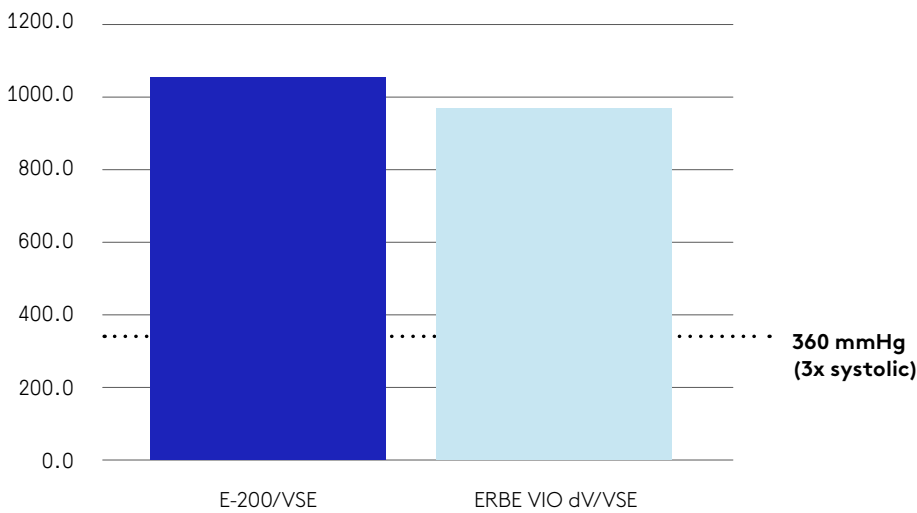
1. Data on file at Intuitive.

Vessel Sealer Extend

Continue creating strong, secure seals

When using Vessel Sealer Extend with E-200, you can rely on strong seals¹ that can withstand more than three times normal systolic burst pressure with minimal lateral thermal spread.¹

Mean Burst Pressure (mmHg)

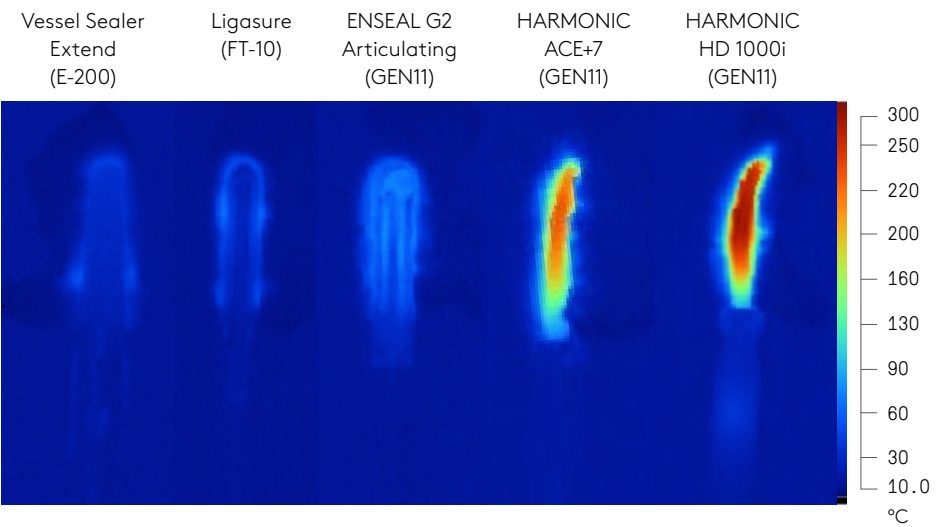


1. Data on file at Intuitive.

Operate at a cooler temperature

When compared with competitive sealers, Vessel Sealer Extend shows the coolest peak temperature and the shortest cooling time,¹ allowing you to move on to the next task with low potential for heat damage.

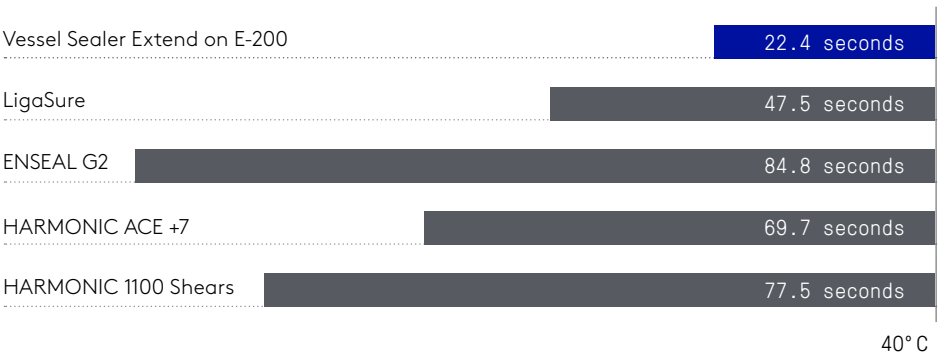
Peak jaw temperature comparison



The peak jaw temperature for Vessel Sealer Extend on E-200 is:



Cool down time from maximum jaw temperature



1. Compared to LigaSure Blunt Tip, ENSEAL G2® Articulating, HARMONIC ACE +7 and HARMONIC 1100 Shears. Data on file at Intuitive.

SynchroSeal

Streamline sealing. Optimize performance.

Get enhanced efficiency¹ and versatility² from a single instrument with an average seal time of fewer than two seconds.³ With a single pedal press, SynchroSeal enables you to confidently seal and cut vessels up to 5 mm in diameter and tissue bundles that fit in the jaws.⁴

01

Use the refined, curved jaw for enhanced dissection⁵ and secure grasping.⁶

02

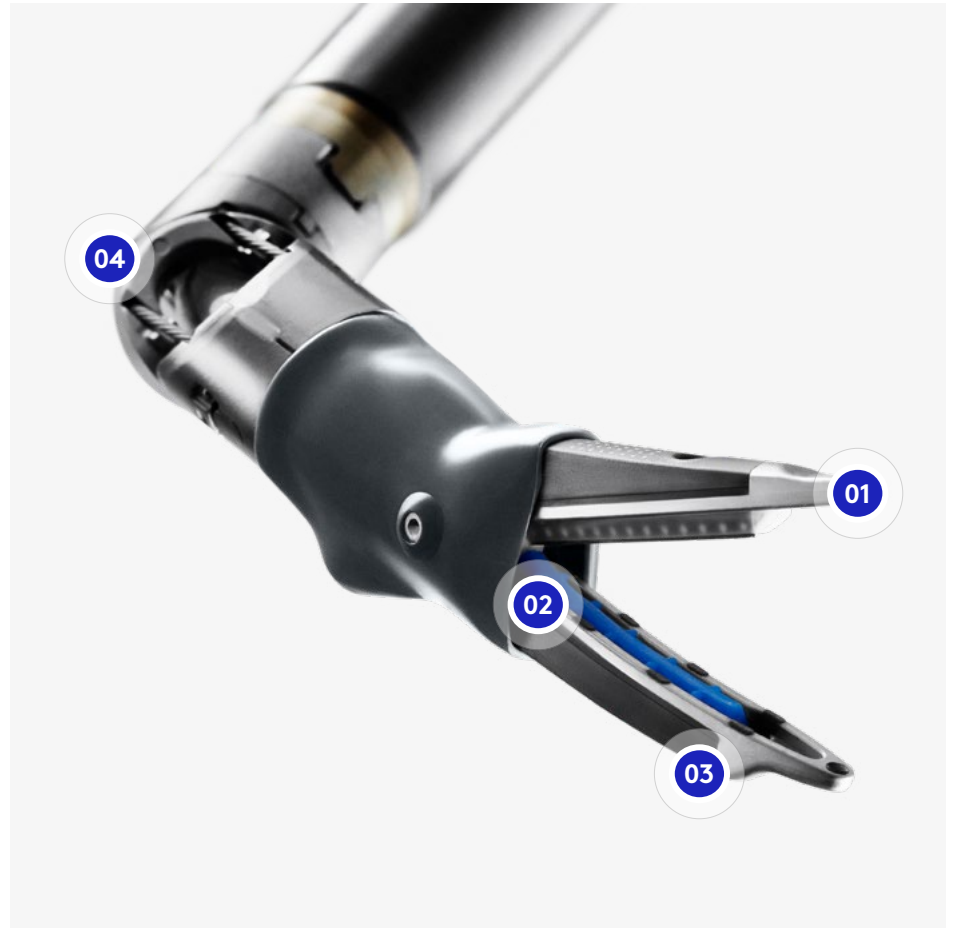
Achieve single-step transection with a raised cut electrode.

03

Create strong, reliable seals.

04

Approach anatomy at your preferred angle with 60° fully wristed articulation.⁴



1. Compared to Vessel Sealer Extend with ERBE VIO dV in terms of faster estimated workflow and seal activation times.
2. Compared to Vessel Sealer Extend with ERBE VIO dV. Data on file at Intuitive.
3. Mean seal time based on seal time from seal and sync mode.
4. Data on file at Intuitive.

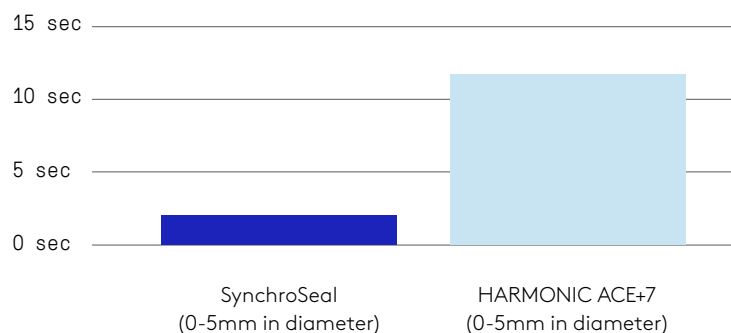
6. Compared to HARMONIC ACE+7. Results of testing on file. Benchtop testing performed using uniform synthetic material. Forces at which the material slipped from the grasped jaws of SynchroSeal and HARMONIC ACE+7 were measured. Slip forces for SynchroSeal were significantly greater than HARMONIC ACE+7. Data on file at Intuitive.

Seal faster while keeping your cool

Accelerate your sealing¹

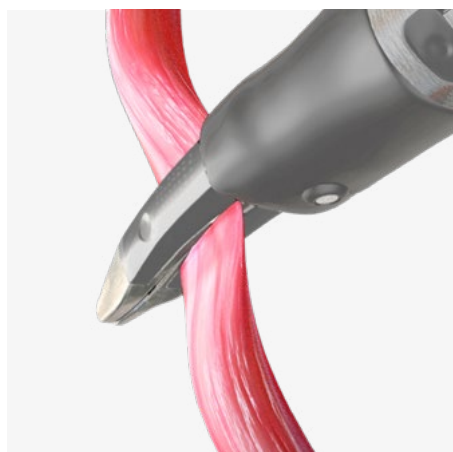
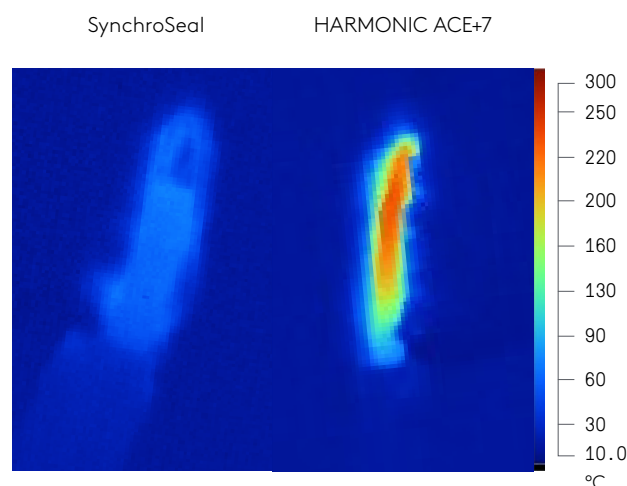
SynchroSeal offers improved efficiency¹ through simplified operation and fast activation times. When paired with the E-200 Generator from da Vinci Energy, SynchroSeal saves 9.90 seconds per seal, compared to HARMONIC ACE+7 Shears with Advanced Hemostasis.

Average Seal Time



Keep your temperatures even lower

A cooler thermal profile allows the jaws to quickly seal and cut tissue, then cool down faster—helping you move on to the next task.



Take advantage of grasping capabilities

The textured jaws of SynchroSeal grip with greater force, which may potentially reduce tissue slippage,² while applying less overall pressure for potentially less stress on tissue within the jaws.³

1. Compared to HARMONIC ACE+7. Data based on testing of Ex-vivo tissue from 0-5mm in diameter. Average seal times required to seal arteries for SynchroSeal and HARMONIC ACE+7 were measured.
2. Compared to HARMONIC ACE+7. Results of testing on file. Benchtop testing performed using uniform synthetic material. Forces at which the material slipped from the grasped jaws of SynchroSeal and HARMONIC ACE+7 were measured. Slip forces for SynchroSeal were significantly greater than HARMONIC ACE+7.

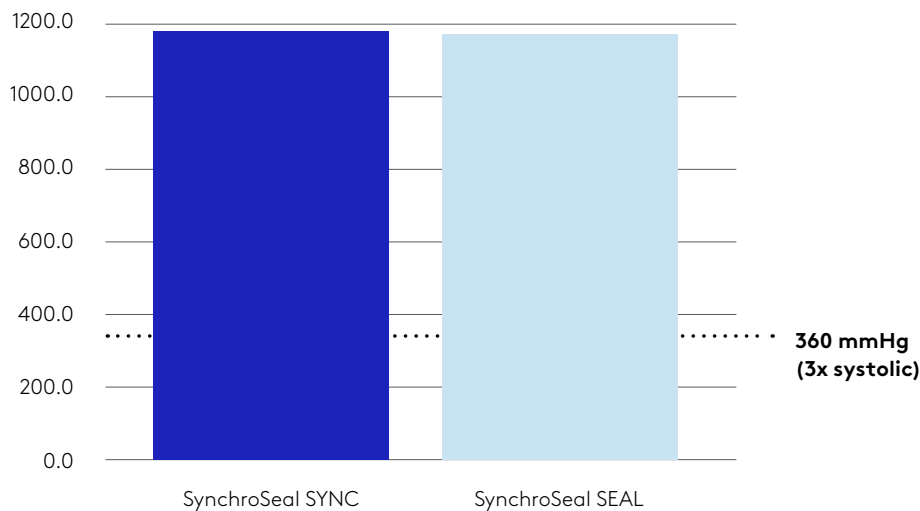
3. Compared to HARMONIC ACE+7. Results of testing on file. Benchtop testing performed using a Tekscan pressure-mapping sensor. Pressures applied by the gripped jaws of SynchroSeal and HARMONIC ACE+7 were measured. Grip pressures for SynchroSeal were significantly less than HARMONIC ACE+7.

Control energy with confidence

Achieve strong, secure seals

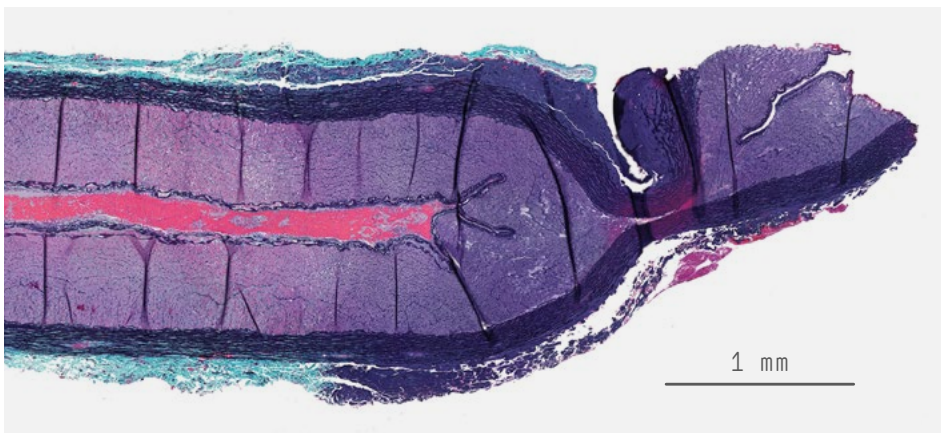
Using SynchroSeal, create seals that consistently withstand more than three times normal systolic burst pressure.¹

Mean Burst Pressure (mmHg)



Minimize lateral thermal spread

SynchroSeal enables you to seal vessels up to 5 mm in diameter and tissue bundles that fit in the jaws with 1-2 mm of lateral thermal spread.¹



In vivo porcine artery pictured above has been sealed and transected with a single pedal press with Sync mode on SynchroSeal.

1. Data on file at Intuitive.

Optimize your da Vinci Energy skills

Intuitive's unified ecosystem can help.

We offer a comprehensive, unified ecosystem of systems, learning, services, and digital insights that helps you advance what's possible in minimally invasive care.

Take advantage of key learning products and services that teach and train you how to use da Vinci Energy for specific procedures, and integrated digital intelligence that provides data-driven insights to help you automate and optimize your energy use.

SimNow simulation

Use advanced, monopolar, and bipolar energy in realistic simulations on the da Vinci surgeon console in a consequence-free environment, using a library of procedure exercises.



Advanced Tissue Models

Practice using da Vinci Energy on standardized, sustainable tissue models that bring the training to you without the need for specialized facilities or equipment.



Technology training

Build da Vinci Energy proficiency in specific procedures through progressive, surgeon-led training series.



Intuitive Hub integrated telepresence

Take advantage of a visual media platform that lets you record procedures and store media so you can collaborate and learn from other surgeons about energy use during procedures.



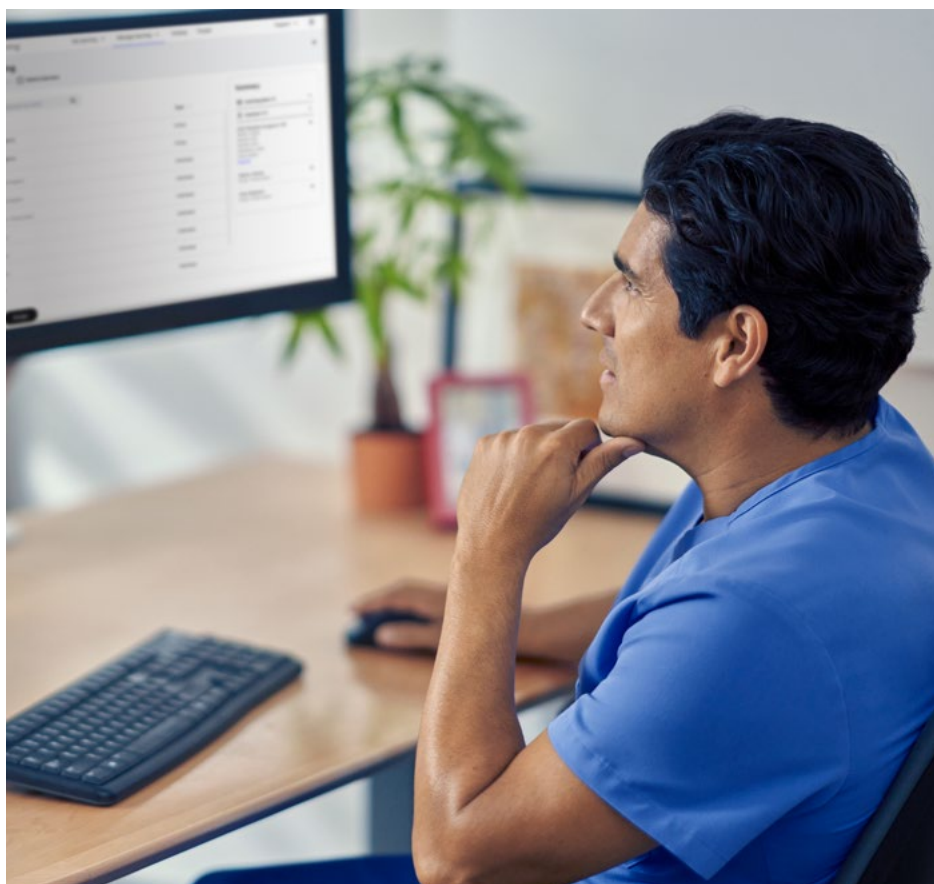
My Intuitive

Gain insights by tracking your da Vinci Energy instrument usage from training, simulation, and live cases. Uncover instrument choreography trends using organized and actionable data to help you set progressive training or efficiency goals.



Cloud login

Access your saved energy presets from any da Vinci system using the login credentials you use at the surgeon console, then access your My Intuitive data immediately after completing your procedure, whether you're on your phone or at your desktop.



Instruments and Accessories

for da Vinci Xi and X Surgical Systems

	Product description	Part Number
	Da Vinci E-200 Gen 4 Generator Upgrade 1 unit	380229
	Da Vinci E-200 Generator (Backup)* 1 unit	378897
	Vessel Sealer Extend 6 units per box	480422
	SynchroSeal 6 units per box	480440

To learn more about Intuitive da Vinci Energy products, visit:
www.intuitive.com

To contact a representative or receive additional information:

Visit www.intuitive.com or
call Intuitive Customer Service:

+41.21.821.2020 or
+800.0821.2020 (toll free)

*If the integrated generator is down, the backup generator stored at hospital will be used to complete robotic procedures.

Instruments and accessories

8 mm instruments

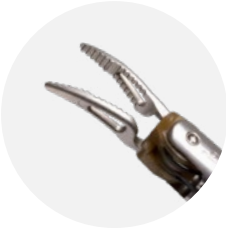
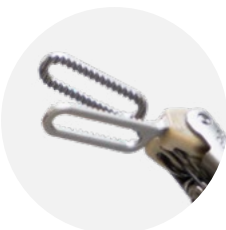
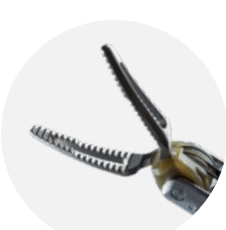
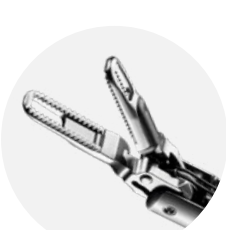
EndoWrist monopolar cautery instruments

	Product description	Part Number
	Monopolar curved scissors (Hot shears) 10 uses	470179
	Tip cover accessory (Shown here)	400180
	Permanent cautery hook 10 uses	470183
	Permanent cautery spatula 10 uses	470184

Instruments and accessories

8 mm instruments

EndoWrist bipolar cautery instruments

	Product description	Part Number
	Micro bipolar forceps 14 uses	471171
	Maryland bipolar forceps 14 uses	471172
	Fenestrated bipolar forceps 14 uses	471205
	Curved bipolar dissector 14 uses	471344
	Long bipolar grasper 14 uses	471400
	Force bipolar 12 uses	471405

Da Vinci X & Xi Surgical Systems

The Intuitive Surgical Endoscopic Instrument Control Systems (da Vinci X and da Vinci Xi Surgical Systems) are intended to assist in the accurate control of Intuitive Surgical Endoscopic Instruments during urologic surgical procedures, general laparoscopic surgical procedures, gynecologic laparoscopic surgical procedures, general thoracoscopic surgical procedures, and trans-oral otolaryngology surgical procedures restricted to benign tumors and malignant tumors classified as T1 and T2, and for benign base of tongue resection procedures. The systems are indicated for adult and pediatric use (except for trans-oral otolaryngology surgical procedures). They are intended to be used by trained physicians in an operating room environment.

The da Vinci X and da Vinci Xi Surgical Systems are class IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

Vessel Sealer Extend

The Vessel Sealer Extend is a bipolar electrosurgical sealing and cutting instrument for use with the da Vinci Xi and da Vinci X Surgical Systems and the compatible electrosurgical generator. It is intended for grasping and blunt dissection of tissue and 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. The Vessel Sealer Extend has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures, and should not be used for these procedures.

The Vessel Sealer Extend is a class IIb medical device CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

SynchroSeal

SynchroSeal is a bipolar electrosurgical instrument for use with a compatible da Vinci Surgical System and a compatible

electrosurgical generator. It is intended for grasping, dissection, sealing and transection of tissue. SynchroSeal can be used to seal vessels up to and including 5 mm in diameter and tissue bundles that fit in the jaws of the instrument. SynchroSeal has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures and should not be used for these procedures.

The SynchroSeal is a class IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

Da Vinci E-200 Generator

The da Vinci E-200 Generator is an electrosurgical unit (ESU) intended to deliver high-frequency energy (HF) for cutting, coagulation and vessel sealing of tissues.

The da Vinci E-200 Generator is a class IIb medical devices CE marked (CE 2460) under the European Medical Devices Regulation (EU 2017/745), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

E-100 Electrosurgical Generator

The E-100 Electrosurgical Generator is an electrosurgical unit (ESU) intended to deliver high-frequency energy (HF) for cutting, coagulation and vessel sealing of tissues.

The E-100 Electrosurgical Generator is a class IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

ERBE

The ERBE Electrosurgical Generator unit (ESU) VIO 300D is intended to deliver High Frequency (HF) current for the cutting and/or coagulation of tissue.

The ERBE VIO 300D is a class IIb medical device CE marked (CE 0124) under the European Medical Devices Directive (93/42/EEC) manufactured by ERBE Elektromedizin GmbH. Refer to Instructions For Use before use.

SimNow

Intuitive technology should only be used by physicians and staff who have received specific training in the use of Intuitive technology. Training provided by Intuitive is limited to the use of Intuitive technology, instruments, and accessories. It does not replace the necessary medical training and experience required to perform surgical procedures. Nothing in Intuitive's training curricula makes expressed or implied promises or commitments to the persons attending. Some of the training described in Intuitive promotions may be provided by organizations or entities other than Intuitive.

Individuals' outcomes may depend on a number of factors, including but not limited to patient characteristics, disease characteristics and/or physician/surgeon experience.

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