

OLYMPUS

POWERSEAL

POWERSEAL Sealer and Divider

The Next Level of Advanced Bipolar Technology



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Let Excellence Meet Power

POWERSEAL is built to support all the ways a surgeon uses advanced bipolar energy. The POWERSEAL sealer and divider brings strong sealing, multifunctional design and improved ergonomics together in a single advanced bipolar energy device for open and laparoscopic surgical procedures.



Strong Sealing



Multifunctional Design



Improved Ergonomics

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Designed with Intuitive Features

These unique features require less effort, streamline your workflow, and accommodate your preferences and surgical technique.



Maximum Control of Hemostasis

Reliable, quick 7 mm vessel sealing with the ability to do spot coagulation.



Best-in-Class Dissection

A true curved, tapered, double-action Maryland dissector/grasper design.



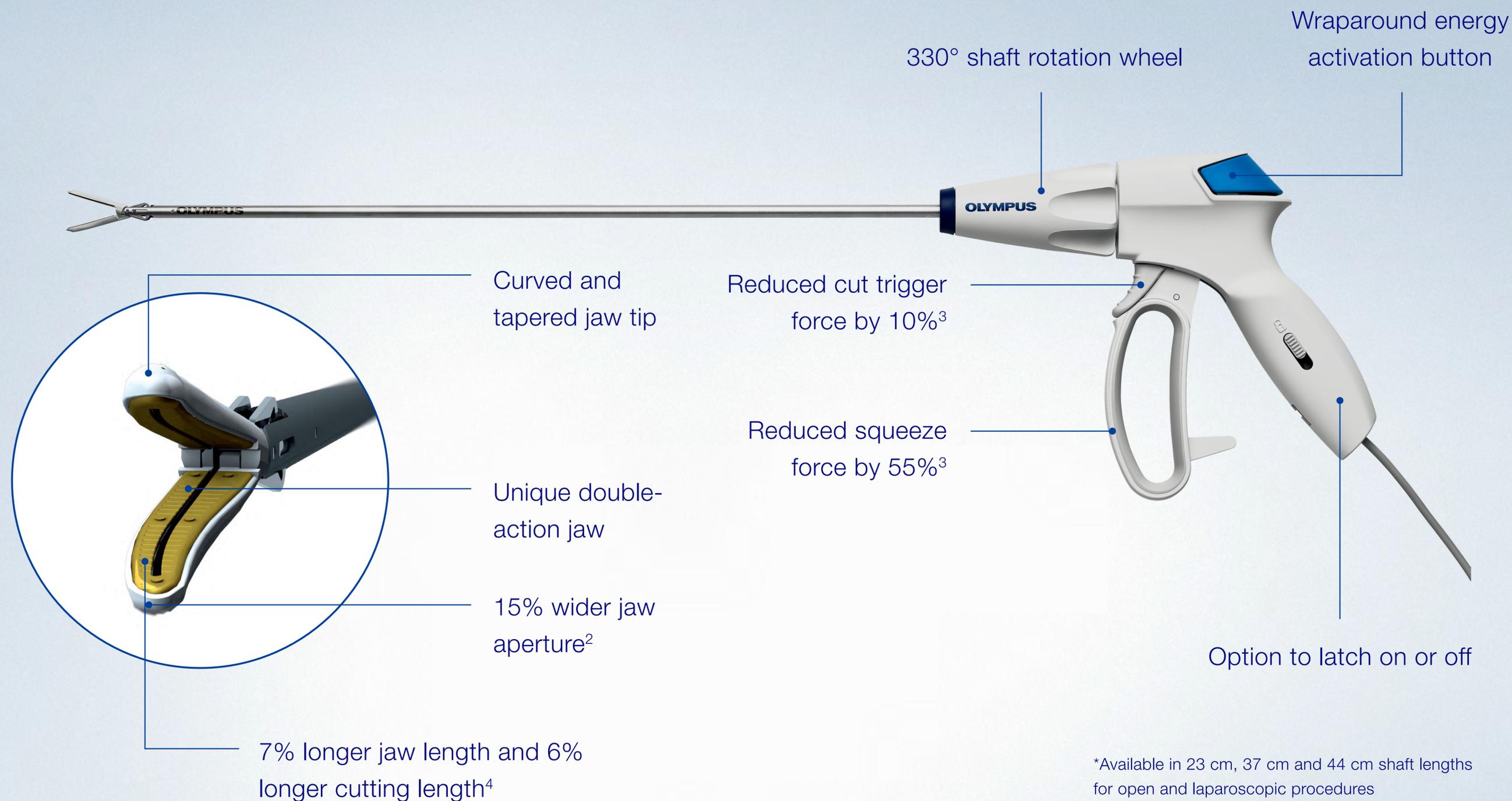
Enhanced Usability

Reduced squeeze force required to close jaws — without sacrificing jaw force.



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Excellence. Efficiency. Energy.

POWERSEAL is compatible with **ESG-400*** or **ESG-410** surgical energy platforms.

Plug and play for simple setup and ease of use.

Optimized waveform** continuously monitors tissue conditions and adjusts energy delivery under different conditions.

* With software 4.12-A or higher

** With proprietary mode tuner device recognition

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Built for Enhanced Usability

55% Less squeeze force required to close the jaws — without sacrificing jaw force or sealing strength.¹ Reduced reach to device landmarks.¹

10% Less squeeze force required to actuate cutting blade — without sacrificing cutting effectiveness.¹

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Strong and Reliable Sealing



In **94% of cases**, surgeons indicated POWERSEAL provided **very good** or **excellent** sealing capability⁹. No surgeon evaluated POWERSEAL vessel sealing as poor or unacceptable.

Key Benefits

- 1** **Consistent vessel sealing, ≤ 7 mm** including pulmonary vessels, tissue bundles and lymphatics.¹
- 2** **Average seal time of < 3 seconds** on vessels with a diameter ≤ 7 mm.⁵
- 3** **Resistance to tissue sticking** through a combination of waveform and jaw construction.⁶
- 4** **Secure sealing**
Greater than 99% probability of vessel burst pressure above 360 mm Hg.⁷
- 5** **No statistical difference in thermal spread** when compared to competitor devices.⁸

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Performance and Multifunctional Design



Key Benefits

- 1 True Maryland dissector** — curved, tapered and double-action Maryland dissector/grasper design.
- 2 Enhanced dissection and grasping capability** through wider aperture with improved jaw force and dissection force.²
- 3 Unique latch-on/latch-off setting** adjusts to surgical technique and preference.
- 4 Energy activation** without the requirement to fully close the jaws facilitates tissue resection or spot coagulation of surface bleeders.



In **95% of cases**, surgeons rated POWERSEAL versatility as **very good** or **excellent**⁹. No surgeon evaluated POWERSEAL as poor or unacceptable.

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Improved Ergonomics



Key Benefits

- 1** **Reduced squeeze force** to close the jaws without sacrificing vessel-sealing strength.^{3,10}
- 2** **Reduced reach distances** support utilization regardless of glove size.³
- 3** **Latch-on setting maintains secure jaw position** while grasping and retracting or sealing vessels.
- 4** **Wraparound button design** minimizes amount of thumb movement required.



In **96% of cases**, surgeons considered POWERSEAL usability **very good** or **excellent**⁹. No surgeon evaluated POWERSEAL vessel sealing as poor or unacceptable.

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Feel the Difference

Designed to be the best-in-class advanced bipolar technology that delivers a consistently strong vessel-sealing performance throughout the procedure.

Consistently **strong 7 mm vessel sealing**¹ that supports a safer procedure and a smooth workflow.

Curved, **double-action jaws** and a **wider jaw aperture**² for efficient, symmetrical dissection and strong, atraumatic grasping.

Latch-on/latch-off settings to **provide versatility** according to surgeons' preference.

Reduced reach distances to device controls and reduced **hand-squeeze requirements**³ to help minimize hand fatigue.

Tissue sticking resistance equivalent to LigaSure Maryland.⁶

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Feel free to
reach out to us.



 www.olympus.eu/POWERSEAL

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References

- ¹. Based on internal test reports, and acute and chronic animal studies reports — DN0044705, DN0044706.
- ². Internal test report DN0046457.
- ³. Internal test report DN0046457.
- ⁴. Based on internal side-by-side testing measuring time and number of seal/cut cycles to seal/transect 20 cm of porcine mesentery — DN0044405.
- ⁵. Based on internal test reports — DN0044249.
- ⁶. Based on internal side-by-side testing measuring time and number of seal/cut cycles to seal/transect 20 cm of porcine mesentery — DN0044405.
- ⁷. Based on internal design verification tests — DN0044249, DN0044289.
- ⁸. Based on Internal tissue testing with histology reports – DN0044287, DN0044290.
- ⁹. Internal report DN0049019. Following 94 of 100 clinical cases, surgeons evaluated POWERSEAL's vessel-sealing capability as Very Good or Excellent. Following 95 of 100 of the same clinical cases, POWERSEAL's versatility was evaluated as Very Good or Excellent. Following 96 of 100 of the same clinical cases, POWERSEAL's usability was evaluated as Very Good or Excellent. No surgeon rated POWERSEAL's vessel-sealing capability, versatility or usability as Poor or Unacceptable.
- ¹⁰. Based on internal design verification electrical and mechanical test reports — DN0046457.

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.

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