

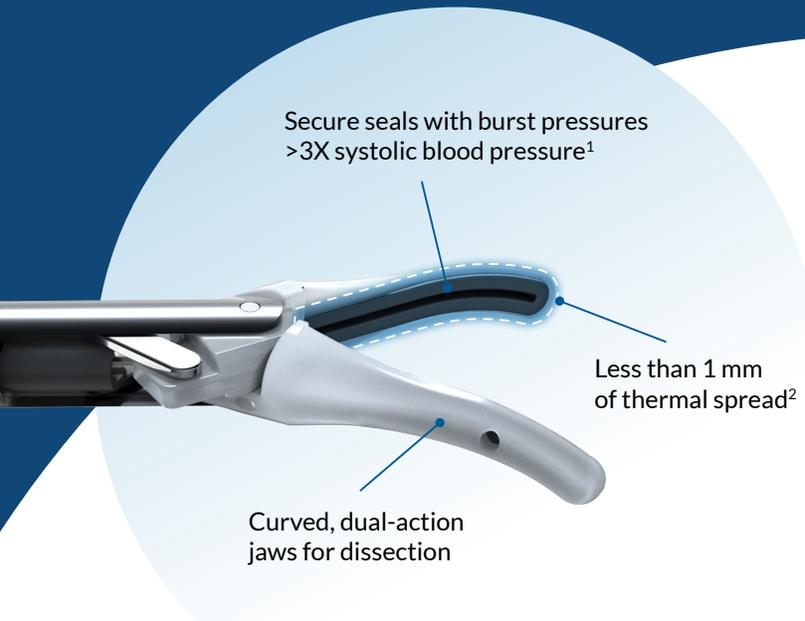
5 mm Maryland Laparoscopic Sealer, Divider and Dissector

## Vessel Sealing Reinvented



A true all-in-one surgical instrument that keeps pace with the surgeon's procedural rhythm, creating fast, reliable seals with less than 1 mm thermal spread<sup>1,2</sup>.

Bolder Surgical reinvents vessel sealing with CoolSeal, a precise, all-in-one surgical device that performs with the finesse of a surgical instrument and the gold-standard efficacy of advanced bipolar vessel sealing.



Designed for safety, built for speed.

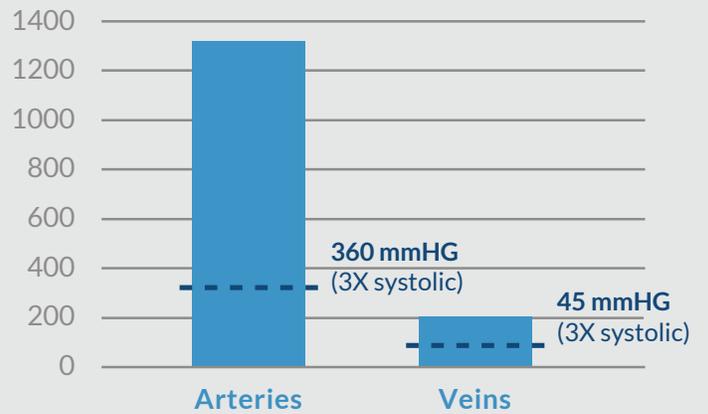
- CoolSeal Trinity produces consistently strong, secure seals in 1.4 seconds<sup>3</sup> so you can work quickly and confidently.
- Average burst seal strength >3x systolic pressure<sup>1</sup>.
- The outer jaws stay cool throughout the procedure, avoiding damage to adjacent critical structures\*.

<1 mm thermal spread<sup>2</sup>

Average Seal Time



Trinity Mean Burst Pressures<sup>1</sup>



1.4 sec average seal time<sup>3</sup>



Precision of a surgical instrument.

Slim, curved double-action jaws enable fine dissection and improve workflow<sup>8</sup>.

- Easily grasp and dissect from the smallest bits of tissue up to large vessel bundles.
- Designed to perform with the precision of a traditional Maryland non-energized dissector.
- Reduces the need for instrument exchange that can slow procedure time<sup>8</sup>.

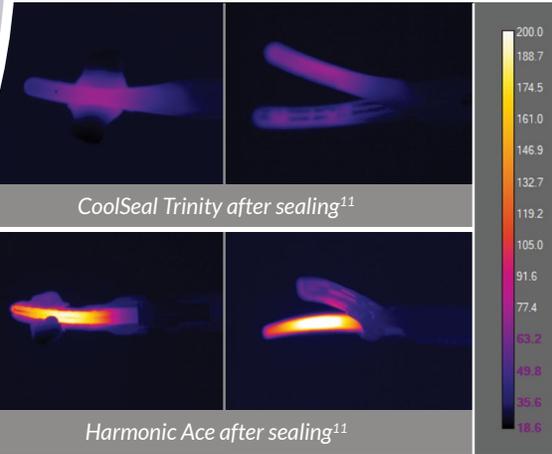
\*Critical structures tested include small bowel and vasculature.



50 W

RF Generator

The inside of the Trinity jaws cool rapidly after sealing, allowing the surgeon to quickly move to the next task<sup>11</sup>



### CoolSeal Energy Delivery.

- CoolSeal performs with the gold-standard efficacy of advanced bipolar RF vessel sealing technology.
- Delivers precisely the power needed, and automatically discontinues power when the seal is complete.

### Compare CoolSeal to the competition

	CoolSeal Trinity	LigaSure	Harmonic	EnSEAL
Seal strength >3X systolic blood pressure <sup>1</sup>	✓	✓	✓	✓
Thermal Spread < 1 mm <sup>2</sup>	✓			
Average seal time < 1.5 seconds <sup>3</sup>	✓			
Dissection via dual action jaws	✓			
Compatible with 3 mm vessel sealer	✓			

### Elevating expectations in surgery.

At Bolder Surgical, we strive to elevate your expectations, from the world's first and only 3 mm vessel sealer<sup>5</sup> to innovative new tools designed for procedures where precision in small spaces is beneficial and minimizing potential damage to critical structures is essential.



Integrated knife divides tissue upon command.

Elevate your expectations with the CoolSeal™ suite of products, and experience vessel sealing reinvented.

## Specifications

	Catalogue No.	Shaft Length	Shaft Diameter	Jaw Length	Jaw Design
<b>CoolSeal Trinity</b>	CSL-TR105-30	30 cm	5 mm	20 mm	Maryland
	CSL-TR105-37	37 cm	5 mm	20 mm	Maryland
	CSL-TR105-44	44 cm	5 mm	20 mm	Maryland
<b>CoolSeal Mini</b>	CSL-MN103-20	20 cm	3 mm	10 mm	Maryland
<b>CoolSeal Generator</b>	CSL-200-50	—	—	—	—

## References

- 1 Internal Report NAR-VE-17353\_2
- 2 Internal Report NAR-VE-17357\_1
- 3 Internal Report NAR-EN-17455\_1
- 4 K202114 Bolder Surgical clearance for CoolSeal Vessel Sealing System
- 5 Internal Memo to File - US Regulatory Clearance Search for Vessel Sealers
- 6 Medtronic Brochure, Based on internal test report #R0032385 Rev A, Thermal profile comparison of Ethicon Harmonic™\*\* HD1000i shears versus nano-coated LigaSure™ Maryland jaw device on the Valleylab™ FT10 energy platform. May 17–18, 2017, and June 14, 2017.
- 7 Timm, Richard, et al. Ethicon Inc. “Sealing vessels up to 7 mm in diameter solely with ultrasonic technology” Medical Devices: Evidence and Research. 30 July 2014.
- 8 Internal Report NAR-ML-17457 Rev 1
- 9 K123662 - Bolder Surgical acquires clearance for a 25W Vessel Sealing System.
- 10 K160602 - Bolder Surgical acquires clearance to expand indications for use to include pediatrics.
- 11 Internal Report NAR-EN-17449 Rev 1

Contact your representative or visit us at [www.boldersurgical.com](http://www.boldersurgical.com) for more information or to schedule a demonstration of CoolSeal.

**BOLDER**<sup>™</sup>  
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