

ADVANCED BIPOLAR VESSEL SEALING

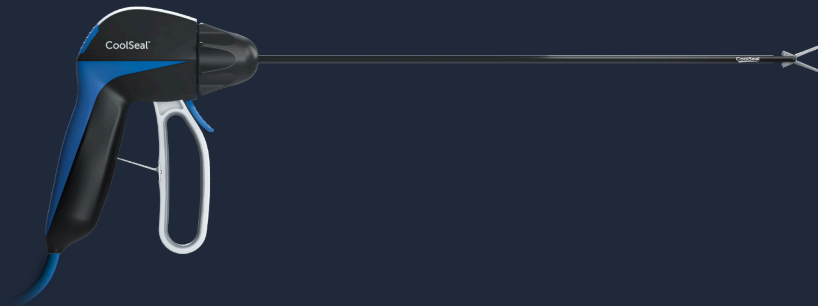
CoolSeal

Sealer, Divider and Dissector

A TRUE **ALL-IN-ONE** SURGICAL INSTRUMENT

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 average thermal spread.



One portfolio, one generator



Trinity

5 mm laparoscopic, 7 mm vessels



Reveal

5 mm open, 6 mm vessels



Mini

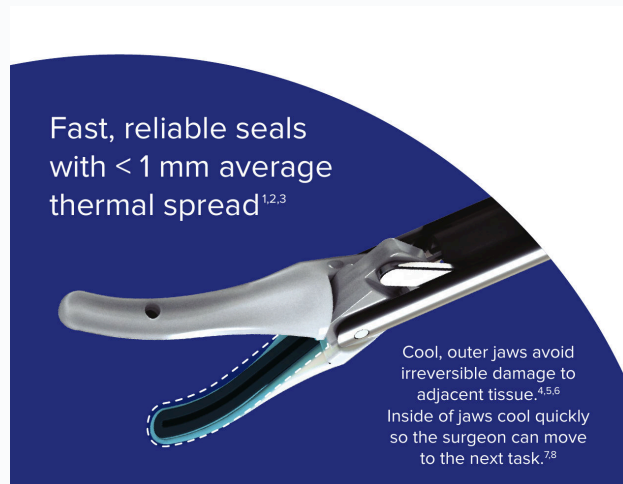
3 mm pediatric, 5 mm vessels



CoolSeal Energy Delivery

All CoolSeal devices are powered with the gold-standard efficacy of advanced bipolar RF vessel sealing technology. The 50 W CoolSeal generator delivers precisely the power needed and automatically discontinues power when the seal is complete.

We revolutionised minimal impact surgery with microsurgical devices that combine the safety of advanced bipolar RF sealing technology with the precision and versatility of true surgical instruments. The CoolSeal portfolio offers practical solutions for a range of surgical procedures that benefit from smaller incisions and a minimal thermal footprint.



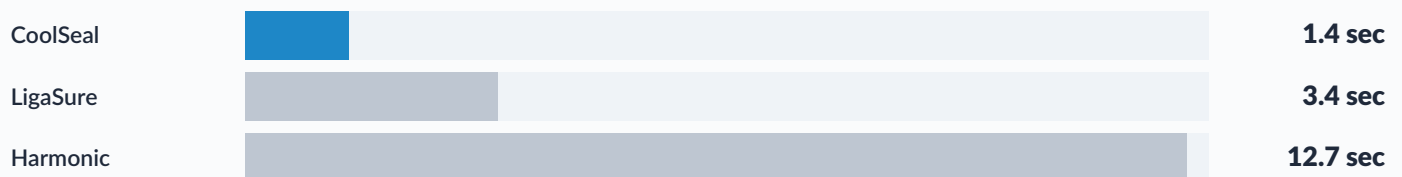
Slim, dual-action jaws

- Slim jaws are designed for precise dissection, grasping and sealing in the tightest surgical spaces.
- The multifunctional, dual-action jaws are designed to limit instrument exchanges and reduce procedure time.

A low thermal profile

- Cool, outer jaws avoid irreversible damage to adjacent tissue.
- Inside of jaws cool quickly so the surgeon can move to the next task.

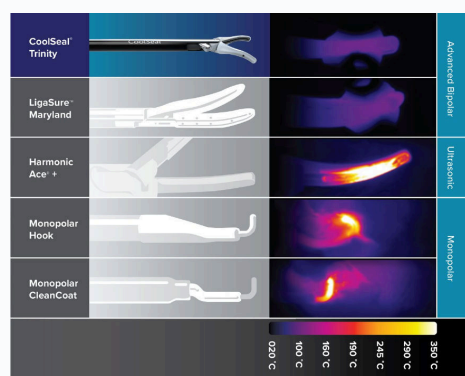
Average seal time



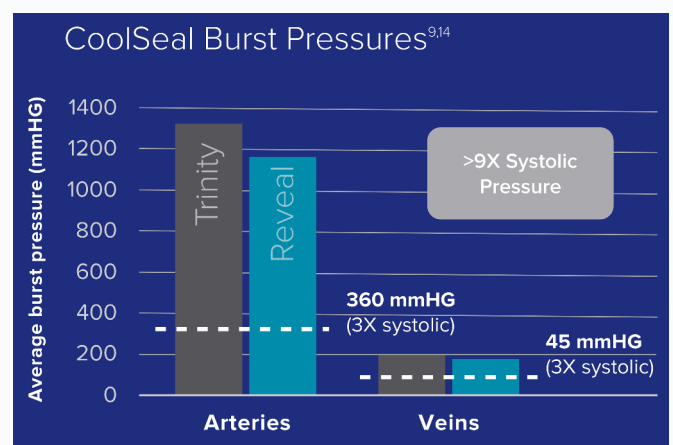
Comparison of Vessel Sealing Devices*

	CoolSeal Trinity	LigaSure	Harmonic	EnSEAL
Seal strength >3x systolic pressure	✓	✓	✓	✓
Thermal Spread < 1 mm	✓	●	●	●
Avg. seal time 1.4 seconds	✓	●	●	●
Dissection via dual action jaws	✓	●	●	●
Compatible with 3 mm Vessel Sealer	✓	●	●	●

*Per manufacturer's labeling

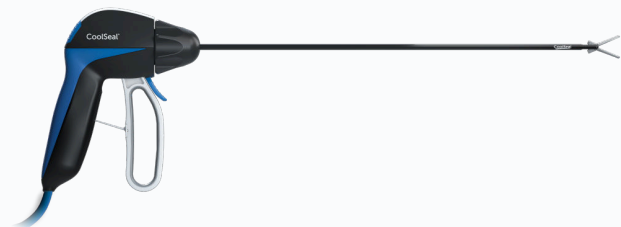


Thermal imaging showing maximum jaw temperature. Inner jaws cool to below 60 °C immediately following sealing.



CoolSeal Trinity

5 mm Maryland Laparoscopic Sealer, Divider and Dissector



Specifications

Shaft Diameter	5 mm
Shaft Length	30 cm, 37 cm, 44 cm
Jaw Type	Maryland
Jaw Length	20 mm
Seal Length	19 mm
Cut Length	18 mm
Rotation	360°
Vessels	up to and including 7 mm
Average seal time	1.4 seconds

CSL-TR105-30 · -37 · -44

A true all-in-one surgical instrument that keeps pace with the surgeon's procedural rhythm, creating fast, reliable seals in vessels up to 7 mm.

- Maryland-style jaws: thin, curved shape with double-action movement.
- Continuous 360° rotation and an integrated cutting trigger for division of tissue.
- Three shaft lengths – 30, 37 and 44 cm – on the same generator.
- Seals in 1.4 seconds – half the time of LigaSure Maryland and 9 times faster than Harmonic Ace.
- Jaws 42% slimmer than LigaSure Maryland, for control when grasping, dissecting, dividing and sealing.
- Vessels up to and including 7 mm.

Designed for safety, built for speed

- Produces consistently strong, secure seals in an average of 1.4 seconds so you can work quickly and confidently.
- Less than 1 mm of thermal spread on average.
- The outer jaws stay cool throughout the procedure, avoiding damage to adjacent critical structures.*
- Indicated for use on vessels up to 7 mm.
- Only advanced bipolar vessel sealing system indicated for use in pediatric surgery.

* Critical structures tested include bowel and vasculature.

IMPORTANT SAFETY INFORMATION

The CoolSeal Trinity is a bipolar electrosurgical instrument intended for use in minimally invasive or open surgical procedures where ligation and division of vessels, tissue bundles, and lymphatics is desired. The CoolSeal Trinity can be used on vessels (arteries, veins, and vascular bundles) up to and including 7 mm in diameter. It is indicated for use in general surgery procedures including urologic, vascular, and gynecologic. It is indicated for use in adult and pediatric populations (infants, children, and adolescents). Procedures may include, but are not limited to, Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, hysterectomy, oophorectomy, etc. The CoolSeal Trinity has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the CoolSeal Trinity for these procedures. The device is contraindicated for use in ENT procedures. For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

CoolSeal Energy Delivery

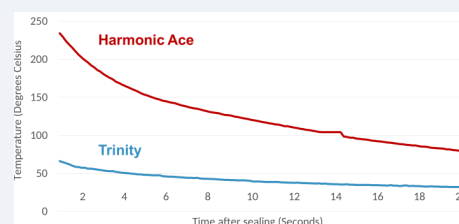
50 W RF generator · CSL-200-50



All CoolSeal devices are powered with the gold-standard efficacy of advanced bipolar RF vessel sealing technology. The 50 W CoolSeal generator delivers precisely the power needed and automatically discontinues power when the seal is complete.

- One 50 W platform for Trinity, Reveal and Mini – no console per device.
- The precise energy delivery is why CoolSeal is the only advanced bipolar system to carry a pediatric indication for use.

Cooling curve after sealing



Inner jaws cool to below 60 °C immediately following sealing.

CoolSeal Reveal

5 mm Open Sealer, Divider and Dissector



Specifications

Shaft Diameter	5 mm
Shaft Length	10 cm
Jaw Type	Maryland
Jaw Length	12 mm
Seal Length	11 mm
Cut Length	10 mm
Rotation	335°
Vessels	up to and including 6 mm
Average seal time	0.7 seconds

CSL-RV105-10

IMPORTANT SAFETY INFORMATION

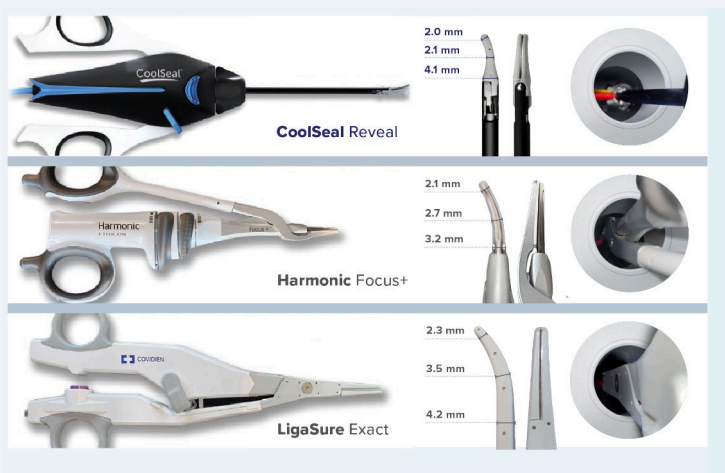
The CoolSeal Reveal is a bipolar electrothermal instrument intended for use in open surgical procedures in adults and pediatrics where ligation and division of vessels, tissue bundles, and lymphatics is desired. The CoolSeal Reveal can be used on vessels (arteries and veins) up to and including 6 mm in diameter. It is indicated for use in general surgery and in such surgical specialties as urologic, thoracic, plastic, and reconstructive. Procedures may include but are not limited to, bowel resections, gall bladder procedures, Nissen fundoplication, and adhesiolysis. The CoolSeal Reveal is also indicated for open ENT procedures in adults (thyroidectomy, radical neck dissection, and parotidectomy) for ligation and division of vessels, lymphatics and tissue bundles 2-3 mm away from unintended thermally-sensitive structures such as nerves and parathyroid glands. The CoolSeal Reveal has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures. Do not use the CoolSeal Reveal for these procedures. For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

- When space is limited and visibility of the surgical field is essential, the CoolSeal Reveal device is tailor-made to perform with precision, sealing vessels up to 6 mm while minimising the thermal footprint.
- Fine jaws: thin, curved shape with double-action movement.
 - Lever opens and closes the jaws — surgeon-controlled, no loading springs; a latching mechanism ensures correct sealing pressure.
 - 10 cm shaft designed for improved access and visibility; 335° rotation.
 - Indicated for open ENT procedures in adults, 2-3 mm away from thermally-sensitive structures.
 - Breast surgery: axillary node dissection and sentinel node biopsy, sealing and dividing around lymphatics and nerves.

Open surgery, tight fields

- The only open, shafted, advanced bipolar vessel sealer.
- Inline hemostat handle keeps the hand out of the line of sight.
- Indicated for head and neck, thoracic, plastic and reconstructive procedures.

Open surgery: jaw profile compared



CoolSeal Reveal jaws are 46% narrower than LigaSure™ Exact jaws, with a shafted design that improves access and visibility in tight surgical fields.

Average cooldown time to 60 °C
After one activation: CoolSeal Reveal under 2 seconds;
Harmonic Focus®+ 24 seconds.

CoolSeal Mini

3 mm Vessel Sealer



Designed for precision and manoeuvrability in tight spaces, the CoolSeal Mini is the only device of its kind, delivering safe, secure seals in vessels up to 5 mm in an average of 1.7 seconds.

- 3 mm shaft with a 10 mm Maryland jaw for fine dissection and grasping.
- Seals vessels up to and including 5 mm in 1.7 seconds on average.
- Indicated for open and laparoscopic general surgery, in adult and pediatric populations.
- The only advanced bipolar vessel sealing system to carry a pediatric indication for use.
- 40% smaller than the standard 5 mm sealer, occupying less of the surgical field and allowing for better visualisation.
- Pediatric thoracic, small bowel, urology and abdominal procedures.

Shaft Diameter	3 mm
Shaft Length	20 cm
Jaw Type	Maryland
Jaw Length	10 mm
Vessels	up to and including 5 mm
Average seal time	1.7 seconds

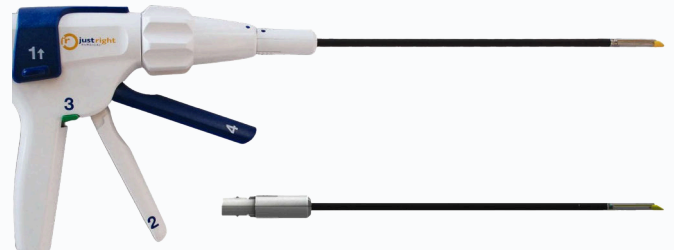
CSL-MN103-20

IMPORTANT SAFETY INFORMATION

The CoolSeal Mini is intended for use in open and laparoscopic general surgical procedures to seal blood vessels and vascular bundles up to and including 5 mm in diameter for use in adult and pediatric populations, wherever vessel ligation is required. This device is contraindicated for use in ENT procedures. The CoolSeal Mini has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures; do not use this system for these procedures. Do not use this device on vessels in excess of 5 mm in diameter. Though not intended for use in the head or neck region, the device should not be used within 1 cm of a cochlear implant. For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

JustRight 5 mm Stapler

The world's only 5 mm stapling instrument



The advantages of thinking small. At less than half the size of all others, the JustRight stapler is the world's only 5 mm stapling instrument, providing advantages for surgeons and patients.

- Access: 5 mm shaft can get into tighter spaces than 12 mm staplers.
- Options for port placement: 5 mm shaft provides flexibility in stapler placement allowing for optimal approaches to the surgical site.
- Visualisation: 5 mm jaw takes up less of the visible field in the scope than larger stapling devices, allowing better visualisation of the surgical field.
- Classic B formation of 2.0 mm titanium staples in 4 rows of 6 staggered staples provides a secure staple line.

Staple line	25 mm
Staple leg	2.0 mm
Shaft length	20 cm
Shaft diameter	5 mm

JR-ST25-2.0-6 · JR-REL25-2.0-12

IMPORTANT SAFETY INFORMATION

The JustRight 5 mm Stapler is intended for use in abdominal, gynecologic, pediatric, and thoracic surgery for resection, transection, and creation of anastomosis. Do not use the JustRight 5 mm Stapler 2.0 mm staples on any tissue that compresses to less than 0.75 mm in thickness, on any tissue that cannot comfortably compress to 1.0 mm or on the aorta. Do not use the JustRight 5 mm Stapler on tissue such as liver, hepatic vasculature, spleen, pancreas, or biliary structures where compressibility is such that closure of the instrument would be destructive. Do not use the JustRight 5 mm Stapler where adequacy of hemostasis cannot be verified visually after application. Do not use the JustRight 5 mm Stapler with a staple line reinforcement material. Adequate staple formation cannot be verified when using staple line buttressing materials such as PERI-STRIPS or SEAMGUARD products. For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

Patient benefits of a 5 mm incision vs a 12 mm incision

- Minimal post-op pain
- Faster recovery times
- Minimal scarring
- Minimal risk of port site herniation
- Decreased potential for surgical site infection

The JustRight 5 mm Stapler fits down a 5 mm trocar, can be reloaded for multiple uses within a single procedure, and can be moved from port to port without the need to upsize.

HOLOGIC

Surgical Synergy

CoolSeal® Trinity + da Vinci®



CoolSeal Trinity is the only hand-held vessel sealer compatible with the da Vinci E-200 generator.¹

The CoolSeal vessel sealing algorithm is integrated into the da Vinci E-200 generator,¹ delivering the precise power needed and automatically discontinuing power when the seal is complete.

Customers must have a da Vinci E-200 generator with compatible software

The CoolSeal Trinity device can be used for vessel sealing needs at any time before, during or after a robotic procedure.

A true all-in-one surgical instrument

The CoolSeal Trinity vessel sealer, now compatible with the da Vinci E-200 generator, was designed for safety, efficiency and an enhanced workflow.



MINIMAL THERMAL SPREAD

Produce **less than 1 mm of thermal spread** on average.²

Avoid damage to critical structures with outer jaws that stay cool throughout the procedure.³



FAST SEALS

Produce consistently strong, **secure seals in 1.4 seconds**⁴ on average, so you can work quickly and confidently.²



SLIM JAWS

Better visualize and access the surgical field with thin, narrow Maryland style, dual-action jaws, for use on **vessels up to and including 7 mm**.⁵

ACTIVATION BUTTON

- Initiates sealing
- Energy delivery stops automatically when seal complete

ROTATION KNOB

- Rotates jaws 360°

SHAFT LENGTH

- 5 mm diameter shaft available in three lengths: 30 cm, 37 cm, 44 cm

MARYLAND STYLE JAWS

- Thin, curved shape
- Double action movement
- Tip bias

HANDLE

- Designed to optimize ergonomics

CUTTING TRIGGER

- Enables division of tissue

CORD

- Connects to the da Vinci E-200 generator

LEVER

- Opens and closes jaws
- Surgeon-controlled handle
- Latching mechanism ensures correct sealing pressure

Specifications

Shaft diameter	5 mm
Shaft length	30 cm, 37 cm, 44 cm
Jaw type	Maryland
Jaw length	20 mm
Seal length	19 mm
Cut length	18 mm

References

1. 510(k) K241635
2. Internal Report NAR-VE-17357_2
3. BOLD-1901 Chronic Study Final Report.
4. Internal Report NAR-EN-17455_1
5. Internal Report NAR-VE-17353_2

Important Safety Information

The **CoolSeal™ Trinity** is a bipolar electrosurgical instrument intended for use in minimally invasive or open surgical procedures where ligation and division of vessels, tissue bundles, and lymphatics is desired. The CoolSeal™ Trinity can be used on vessels (arteries, veins, and vascular bundles) up to and including 7 mm in diameter. It is indicated for use in general surgery procedures including urologic, vascular, and gynecologic. It is indicated for use in adult and pediatric populations (infants, children, and adolescents). Procedures may include, but are not limited to, Nissen fundoplication, colectomy, cholecystectomy, adhesiolysis, hysterectomy, oophorectomy, etc.

Do not use the CoolSeal™ Trinity for tubal sterilization or tubal coagulation for sterilization procedures. The device is contraindicated for use in ENT procedures.

For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

Hologic, CoolSeal and associated logos are trademarks and/or registered trademarks of Hologic, Inc. and/or its subsidiaries in the United States and/or other countries. Intuitive, da Vinci, Intuitive Surgical, and related logos are trademarks or registered trademarks of Intuitive. See www.intuitive.com/trademarks.

Product	Catalogue No.	Shaft length	Shaft diameter	Jaw design
CoolSeal Trinity	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
CoolSeal Reveal	CSL-RV105-10	10 cm	5 mm	12 mm Maryland
CoolSeal Mini	CSL-MN103-20	20 cm	3 mm	10 mm Maryland
CoolSeal Generator	CSL-200-50	—	—	—
JustRight 5 mm Stapler	JR-ST25-2.0-6	20 cm	5 mm	—
JustRight 5 mm Reload	JR-REL25-2.0-12	20 cm	5 mm	—

Where CoolSeal is used

Biliary Cholecystectomy	Trinity	Head & neck, open Thyroidectomy, parathyroidectomy, neck dissection	Reveal
Bariatrics Gastric sleeve, duodenal switch, gastric bypass	Trinity	Breast Axillary node dissection, sentinel node biopsy	Reveal
General & upper GI Nissen fundoplication, appendicectomy	Trinity	Thoracic Open thoracic procedures	Reveal
Colorectal Enterolysis, lower anterior resection, hemorrhoids	Trinity	Plastic & reconstructive Open reconstructive procedures	Reveal
Gynecology Hysterectomy, salpingo-oophorectomy	Trinity	Pediatrics General and thoracic paediatric surgery	Mini
Urology Laparoscopic and open urologic procedures	Trinity • Reveal		

Vizient Innovative Technology Contract

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

PELMY PLUS MEDICAL S.A.

2 Likourgou Street, 14233 Nea Ionia, Athens, Greece

Tel. +30 216 8090015 / 16 / 17

info@pelmyplusmedical.com • www.pelmyplusmedical.com

Exclusive distributor of Hologic CoolSeal and JustRight products in Greece

HOLOGIC®


pelmyplus
MEDICAL

For further information related to warnings, cautions, and directions for use, please consult the Instructions For Use.

Hologic, CoolSeal, The Science of Sure and associated logos are trademarks and/or registered trademarks of Hologic, Inc. and/or its subsidiaries in the United States and/or other countries. All CoolSeal products are manufactured by Bolder Surgical, LLC, a subsidiary of Hologic, Inc.