UNIQUE CHALLENGES DEMAND MEANINGFUL INNOVATIONS.

Specialty stapling and advanced energy solutions for thoracic surgeons
OUR JOB IS TO MAKE YOURS EASIER.
TO HELP YOU SAVE MORE LIVES.

Having the right tools for the job makes all the difference. Especially for thoracic surgeons, given the unique challenges of operating in the chest cavity.

That’s where we come in. Our tools are designed to improve access, visibility and maneuverability.¹ We help you manage tissue variability and surgical challenges with greater confidence and ease.

Innovations in our specialty stapling and advanced energy technologies are inspired by your surgical challenges. They’re designed to make you more effective when working with vital anatomy in tight spaces to treat serious conditions like lung cancer and esophageal disease.
VARIABLE, HARD-TO-REACH, HIGH-RISK TISSUES? WE’VE GOT YOU COVERED.

The Medtronic specialty stapling portfolio features our proprietary Tri-Staple™ technology. Tri-Staple™ technology sets new standards for performance in variable tissue and staple line formation with its unique design elements like the stepped cartridge face and staggered staple heights. It delivers graduated compression that provides outstanding performance in variable tissue thickness, reduced stress on tissue during clamping and compression\(^2\) and greater perfusion into the staple line.\(^3\)

MANAGE FRAGILE TISSUE AND AIR LEAKS

The Endo GIA™ reinforced reload with Tri-Staple™ technology:
- Is the only stapler with preloaded tissue reinforcement to provide improved efficiency and reduced waste in the OR.\(^4\)
- Adds strength at the staple line.\(^5\)

HANDLE EXTRA-THICK TISSUE

The Endo GIA™ black reload with Tri-Staple™ technology:
- Is the only reload designed specifically for use in extra-thick tissue applications.
- Offers the tallest staple height on the market to accommodate the thickest indicated tissue range.\(^4\)
- Provides superior staple formation compared to the Echelon Flex™ black reload in thick tissue applications.\(^5\)
- Buttressed reloads have been shown to prevent prolonged air leaks when used after pulmonary wedge resection.\(^6\)
MANEUVER THROUGH SMALL, NARROW AND TIGHT SPACES

The Endo GIA™ 30 mm reload with Tri-Staple™ technology:
- Is designed specifically for use in procedures where space is limited.
- Provides outstanding access and maneuverability in cavities that can’t accommodate larger sized reloads.
- Available in two curved tip options (gray and tan) to provide added benefit.

ACCESS HARD-TO-REACH TISSUES AND VESSELS

The Endo GIA™ curved tip reload with Tri-Staple™ technology:
- Is the first reload with a curved tip on the distal end of the anvil.
- May improve visualization of the dissection plane and enhances ability to encircle vascular structures, allowing for blunt dissection and mobilization compared to straight anvils with traditional stapling devices.
- Provides better time savings during thoracoscopic lung resection procedures compared to the straight anvils with traditional stapling devices.

The Endo GIA™ radial reload with Tri-Staple™ technology:
- Has a unique design and 360-degree rotation that allows for multiple access angles.
- May allow for enhanced access in the chest cavity compared to linear reloads.
- Is designed for use in open and VATS procedures including pulmonary wedge resection and blebectomy.
ONE HANDLE FOR ALL YOUR APPLICATIONS

Each reload in our specialty stapling portfolio is fully compatible with the Endo GIA™ Ultra universal staplers as well as the iDrive™ Ultra powered stapling system. So you can be sure you have the right reload for every firing, all with a single handle – no matter what tissue challenge comes your way. This unprecedented versatility improves the experience for surgeons and also presents significant inventory efficiencies.⁹
ENERGY THAT POWERS YOUR SURGICAL EFFICIENCY.

Reliability you expect in dividing and sealing lymphatics and small vessels with our advanced energy solutions

PRECISE ENERGY DELIVERY

Valleylab™ FT10 Energy Platform

LigaSure™ vessel sealing is up to 50% faster on the Valleylab™ FT10 energy platform than on the ForceTriad™ energy platform.10

- The Valleylab™ FT10 energy platform utilizes TissueFect™ sensing technology actively monitoring changes in tissue impedance 434,000 times per second and provides real-time adjustment control of energy output as compared to the ForceTriad™ energy platform.11
- The Valleylab™ FT10 allows for a more useful combination of devices in procedures, as compared to the ForceTriad™ energy platforms.12
- 94% of surgeons surveyed agree that increased clip detection speed instills more confidence in the system as compared to the ForceTriad™ energy platform.12
- 97% of surgeons surveyed agree that the Valleylab™ FT10 energy platform provides an improved surgical experience as compared to the ForceTriad™ energy platform.12
Lower max jaw temperature with single and multiple activations than the Enseal™ G2, Harmonic ACE+™* and Thunderbeat™*.

Statistically shorter cool down time than the Enseal™ G2, Harmonic ACE+™* and Thunderbeat™* in single activations.

Statistically higher levels of efficiency and speed within the surgical field compared to Gyrus PK™*, Harmonic ACE™* and ENSEAL™*.

99.8% probability of getting a burst pressure greater than 360 mmHg compared to the Thunderbeat™* (89.3%) and Enseal™* G2 (78.4%).

Statistically less lateral thermal spread than the Thunderbeat™* and Enseal™* G2.
References


2. Based on internal engineering report #PCG-007. Rev 1 “Perfusion Into Clamped Media.” when compared to Ethicon Echelon Flex” green reprints as part of an analysis comparing different stapler designs and their performance and impact on tissues under compression using two-dimensional finite element analysis. Sept. 2, 2011.

3. Based on internal engineering report # PCG-007. When compared to Ethicon Echelon Flex™ green reprints as part of a bench study conducted that measured fluid perfusion into clamped media among different stapler designs. Aug. 16-18, 2011.

4. Based on an internally sponsored study by ORC International. Survey of tissue reinforcement users to determine waste and time loss attributed to separately loaded buttress materials in the OR. An online U.S. national sample of 125 surgeons and 125 OR nurses. Nov. 9, 2011.

5. Based on internal engineering report #PCG-019. When compared to Ethicon Echelon Flex™ powered Endopath™ stapler with Echelon black reload with gripping surface technology in an ex vivo porcine stomach model (p <0.015).


9. Average 61% reduction in reload tip travel during firing when compared to Ethicon Echelon Surgery Echelon Flex™ in indicated media, n=10 surgeons, 172 total trials, p<.0005.


