HEALTHCARE IS EVOLVING. SO SHOULD YOUR TOOLS.
We aren’t just evolving with the healthcare industry, we’re leading the way. And for minimally invasive surgery, the Signia™ system marks the beginning of a new, exciting chapter.

It’s the ultimate complement to the two most important tools in the OR — your hands and your experience.

Because it:
- Combines powered rotation, articulation, and firing in a true one-handed design
- Displays real-time feedback about the forces to clamp down and fire the stapler
- Delivers the proven clinical performance of Tri-Staple™ technology

It’s all about producing consistent staple lines — and the benefits they bring to your patients and hospital.
INTRODUCING OUR MOST TECHNOLOGICALLY ADVANCED STAPLING SYSTEM EVER.

On their own, each piece of the Signia™ system delivers exceptional performance in the OR — for patients, surgeons, and hospitals. But the true power of this first-of-its-kind smart stapling system is realized when they’re used together.

The Signia™ system includes:

- Signia™ Stapler
- Tri-Staple™ 2.0 Cartridges
- Signia™ Loading Units
- Signia™ Linear Adapters
- Tri-Staple™ 2.0 Reloads
- Various Accessories

Signia™ Stapling System
Interactive Brochure

» Overview

Signia™ Stapler

Specialty Reloads
Tri-Staple™ 2.0 Cartridges
Signia™ Loading Units
Sales Tools
Ordering Information

Medtronic
Technology is most beneficial when it’s easy to use and understand. That simple idea informed every facet of our development of the Signia™ system. And it’s why the stapler features an LED screen that:

- Simplifies setup with user-guided feedback¹
- Displays real-time feedback in an easy-to-understand manner¹

It’s also why we offer exceptional support from our experts — because no technology will ever replace the value that comes with a true partnership.
A POWERED STAPLER THAT EMPOWERS YOU WITH REAL-TIME FEEDBACK.

Because an informed decision is the best decision

The Signia™ stapler doesn’t just adapt to tissue variability. It lets you know when it does, with visual and audible feedback displayed on the handle — before you fire. It’s made possible by force-sensing technology in the stapler and our intelligence-enabled Signia™ loading units and specialty reloads.

So when you clamp on tissue, the stapler:

- Displays real-time feedback, showing the device is ready to fire.
- Sets one of three firing speeds based on the tissue clamped.
- Adjusts firing speed based on tissue variability and thickness.

And when combined with Tri-Staple™ technology, you get:

- Less stress on tissue during compression and clamping.
- Better perfusion into the staple line.
- Outstanding performance in variable tissue.
- Improved cut-line consistency.

SURGEON PERSPECTIVE: Real-time feedback has real value

A majority of surgeons surveyed believe the easy-to-understand display provides real-time feedback about clinically-relevant information.

† 36/37 (97.3%) of surgeon participants
Technology is most beneficial when it’s easy to use and understand. That simple idea informed every facet of our development of the Signia™ system. And it’s why the stapler features an LED screen that:

- Simplifies setup with user-guided feedback1
- Displays real-time feedback in an easy-to-understand manner1

It’s also why we offer exceptional support from our experts — because no technology will ever replace the value that comes with a true partnership.

POWERED ROTATION ARTICULATION AND FIRING WITH ONE HAND.

The Signia™ stapler is designed to make it easier for you to do your job.

With these features and benefits from powered stapling systems:

- Fully powered articulation, rotation, clamping, and firing provides greater precision and maneuverability compared to manual staplers6,11,12
- Single-handed operation frees your other hand to focus on the surgical site1
- Push-button powered firing reduces strain of operation compared to firing manually12
- Easy-to-reach controls accommodate a range of hand sizes1

The Signia™ power handle can be used in up to 200 procedures.

ERGONOMICS

The handle also provides a well-balanced feel in your hand13
SIMPLE AND EASY.

COMPATIBILITY TODAY & TOMORROW.

The Signia™ stapler can be used with our legacy Tri-Staple™ technology reloads including our Endo GIA™ specialty reloads. And it will optimize stapling performance across a range of tissue thicknesses — with force-sensing technology that automatically adjusts firing speed. ³, ⁴ It just won’t provide the real-time feedback you get when using the stapler with Signia™ loading units and Tri-Staple™ 2.0 cartridges.
THE RIGHT STAPLER FOR THE JOB EVERY TIME.

Unique challenges call for unique solutions. That’s what inspired us to design a comprehensive portfolio of specialty reloads to meet critical surgical challenges.

Tri-Staple™ 2.0 30 mm Reload specifically for use in situations where space is limited.

Tri-Staple™ 2.0 Black Reload for use in extra-thick tissue applications, it offers a 50% thicker tissue range compared with the Echelon Flex™ green reload.\textsuperscript{14}

Tri-Staple™ 2.0 Reinforced Reload The only stapler with preloaded tissue reinforcement improves ease of use, and reduces errors and waste in the OR.\textsuperscript{15}
THE RIGHT STAPLER FOR THE JOB EVERY TIME.

Unique challenges call for unique solutions. That’s what inspired us to design a comprehensive portfolio of specialty reloads to meet critical surgical challenges.

Tri-Staple™ 2.0 Curved Tip Reload
enhances visualization and maneuverability while allowing for blunt dissection.

Tri-Staple™ 2.0 Radial Reload
Facilitates better distal margins by providing access 1 to 2 cm lower in the pelvis compared with Ethicon Contour™.

Specialty Reloads

Signia™ Stapling System

Interactive Brochure

Overview

Signia™ Stapler

Tri-Staple™ 2.0 Cartridges

Signia™ Loading Units

Sales Tools

Ordering Information

Medtronic
BUILDING ON A LEGACY OF PROVEN PERFORMANCE.

Tri-Staple™ 2.0 cartridges and Signia™ loading units deliver the clinical benefits of our signature technology:

- Generate less stress on tissue during compression and clamping.
- Allow greater perfusion into the staple line vs. uniform staple closure.
- Deliver outstanding performance in variable tissue thicknesses.

They're also compatible with all current and future staplers — including the new Signia™ stapler.

It's when paired the Signia™ stapler that surgeons get unparalleled performance from Tri-Staple™ 2.0 cartridges. Click here to find out how.
YOUR HANDS & OUR TECHNOLOGY. THEY’RE MADE FOR EACH OTHER.

Signia™ loading units are the critical link between Tri-Staple™ 2.0 cartridges and the Signia™ stapler — and having real-time feedback in your hands. And they can be fired up to 12 times per procedure.

SMOOTH FIRING
The electro polished anvil and channel on Signia™ loading units minimizes friction forces for smooth firing.18

REDESIGNED BLADE
To ensure consistent cutting during multiple firings, an increased knife edge angle provides rigidity and durability during multiple firings.19

BUILT-IN COMPATIBILITY
Tri-Staple™ 2.0 cartridges with Signia™ loading units are compatible with all current and future Medtronic staplers. But it’s when paired with the Signia™ stapler that surgeons get unparalleled performance from Tri-Staple™ 2.0 cartridges.20

ENHANCED SAFETY
Signia™ loading units feature a mechanical lock-out to prevent an already fired cartridge from being used.
The world’s first smart stapler

Smart technology that gives you real-time feedback and powered rotation, articulation, and firing — with one hand. That’s the Signia™ stapler.

Not just a new stapler. A smart stapler.

The future of stapling is in your hands. Today.
LET'S PUT THE FUTURE OF STAPLING IN YOUR HANDS.

**ORDER CODE** | **DESCRIPTION**
--- | ---
SIGPHANDLE | Signia™ Power Handle
SIGPSHELL | Signia™ Power Shell
SIGADAPTSTND | Signia™ Linear Adapter
SIGADAPTXL | Signia™ Linear Adapter XL
SIGADAPTSHTND (coming soon) | Signia™ Linear Adapter Short
SIGSBCHGR | Signia™ Single-Bay Charger
SIGRIG | Signia™ Reusable Insertion Guide
SIGMRET | Signia™ Manual Retraction Tool
SIGTRAY | Signia™ Sterilization Tray
SIGPCORD1 | Signia™ Power Cord 1 – US

To try the Signia™ stapler in your next procedure, contact your local Medtronic sales representative or call 800-722-8772.

More information is on our website: medtronic.com/covidien
REFERENCES

2. Based on internal test report #PCG022, Comparison of the iDrive™ stapler, Ethicon 60, and universal 60 staple formation in thick tissue stomach flirings. January 2016.
3. Based on internal test report #R2146-173-0, ASA verification testing with slow speed force limit evaluation. 2015.
4. Based on internal test report #R2146-151-0, Powered stapling firing speed DOE analysis and ASA parameters. 2015.
5. Based on benchtop testing, thoracic chronic study, and GI chronic study.
6. Based on software requirements specification (SRS) and 510(k) testing.
7. Based on internal test report #PCG-007 rev 1, Perfusion into clamped media. When Endo GIA™ reloads were compared to Echelon Flex™ green reloads 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.
8. Based on internal test report #2128022, When Endo GIA™ reloads were compared to Echelon Flex™ uniform staple reloads as part of a bench study conducted in murine models, the vascular volume was statistically superior with Tri-Staple™ technology. [p<0.05] April 27, 2015.
9. Based on S10(k) submission and various benchtop testing demonstrating equivalent or superior performance of reloads within a wide range of thicknesses as compared to predicate.
10. Based on internal test report #PCG-019, Comparative testing of Endo GIA™ black reloads with Tri-Staple™ technology and Ethicon Echelon Flex™ black reloads.
14. Indicated tissue thickness range: Endo GIA™ black reload (2.25 mm to 3.00 mm) vs. Echelon Flex™ green reload (2.0 mm).
15. Based on internal test report #2183-075, In vivo competitive testing: Acute hemorrhage in canine small bowel, acute pneumostasis in canine lung, and in vivo leak testing in canine bowel. Published models applicable to EGIA60AMT reload. November and December 2013.
17. Based on internal test report #WBS-1895. Pelvic depth, access, and rectal transection comparative human cadaver study comparing the performance of the Endo GIA™ radial reload with Tri-Staple™ technology with the Ethicon Contour™ curved cutter stapler. Statistically significant results in both coronal and sagittal planes. May 2010.
18. Based on internal benchtop test report #RE00012189, Signia™ loading units reliability test report. April 21, 2015.

© 2017 Medtronic. All rights reserved. Medtronic, Medtronic logo and Further. Together are trademarks of Medtronic. Third party brands are trademarks of their respective owners. All other brands are trademarks of a Medtronic company. 11/2017-US16085171-1-1-WF #827977