

THE FUTURE OF  
STAPLING IS IN  
YOUR HANDS.  
**TODAY.**



**Tri-Staple™ 2.0 cartridges  
with Signia™ loading units**

**Medtronic**  
Further, Together

# PERFORMANCE YOU EXPECT. FLEXIBILITY YOU NEED.

The Signia™ loading unit gives you up to 12 firings — from any of the Tri-Staple™ 2.0 cartridges.<sup>1,2</sup> So you can transition between staple heights during a procedure without having to change your loading unit. And you get the unsurpassed performance of our signature technology.



## ENHANCED ANVIL & CHANNEL

Electro polished anvil and channel minimizes friction force for a smooth firing<sup>3</sup> and maintains strength to minimize jaw gap<sup>4</sup>

## REDESIGNED BLADE

Signia™ loading units feature an increased knife edge that provides rigidity and durability during multiple firings<sup>5</sup>

## BUILT-IN SAFETY

A mechanical lock-out feature prevents an already fired cartridge from being used

## TACKLING ALL TISSUE TYPES

Pick from a range of lengths and staple heights — each designed for different tissue types and procedures



Generates less stress on tissue during compression and clamping<sup>6,†</sup>



Allows greater perfusion into the staple line vs. uniform staple closure<sup>7,†</sup>



Provides superior performance in variable tissue thicknesses<sup>8-12,†</sup>



Provide procedural flexibility to tackle all tissue types with one loading unit

## WE'RE PUTTING CLINICAL INFORMATION IN YOUR HANDS.

With real-time feedback — before you fire

Signia™ loading units are intelligence-enabled — that's what the "i" on our new loading unit signifies. It means there's a computer chip in them that can communicate information during your procedure.

It's like the key that unlocks the power of our most technologically advanced stapler ever.

Because the Signia™ stapler measures clamp force and automatically adjusts firing speed. And with the full Signia™ system in use together, the stapler lets you know when it does — with real-time visual and audible feedback displayed right on the handle.



**HANDLE  
COMPATIBILITY  
TODAY AND  
TOMORROW**

Signia™ loading units and Tri-Staple™ 2.0 cartridges fit our existing portfolio of staplers including the Endo GIA™ Ultra and iDrive™ Ultra powered stapler. But it's when paired with the Signia™ stapler that surgeons will get optimal staple formation<sup>13</sup> and consistent staple lines.<sup>14–16,†</sup>

## ORDERING INFORMATION

| CARTRIDGE LENGTH | DESCRIPTION                      | REORDER CODE | COLOR | STAPLE HEIGHT          | TISSUE TYPE     |
|------------------|----------------------------------|--------------|-------|------------------------|-----------------|
| 45 mm            | Signia™ 45 mm Loading Unit       | SIGLU45A     | —     | —                      | —               |
|                  | Tri-Staple™ 2.0 Tan Cartridge    | SIGC45VM     | ■     | 2 mm, 2.5 mm, 3 mm     | Vascular/Medium |
|                  | Tri-Staple™ 2.0 Purple Cartridge | SIGC45MT     | ■     | 3 mm, 3.5 mm, 4 mm     | Medium/Thick    |
|                  | Tri-Staple™ 2.0 White Cartridge* | SIGC45VT     | ■     | 2.5 mm, 2.5 mm, 2.5 mm | Vascular        |
|                  | Tri-Staple™ 2.0 Grey Cartridge*  | SIGC45V      | ■     | 2 mm, 2 mm, 2 mm       | Vascular        |
| 60 mm            | Signia™ 60 mm Loading Unit       | SIGLU60A     | —     | —                      | —               |
|                  | Tri-Staple™ 2.0 Tan Cartridge    | SIGC60VM     | ■     | 2 mm, 2.5 mm, 3 mm     | Vascular/Medium |
|                  | Tri-Staple™ 2.0 Purple Cartridge | SIGC60MT     | ■     | 3 mm, 3.5 mm, 4 mm     | Medium/Thick    |
|                  | Tri-Staple™ 2.0 White Cartridge* | SIGC60VT     | ■     | 2.5 mm, 2.5 mm, 2.5 mm | Vascular        |
|                  | Tri-Staple™ 2.0 Grey Cartridge*  | SIGC60V      | ■     | 2 mm, 2 mm, 2 mm       | Vascular        |

## PUT THE FUTURE OF STAPLING IN YOUR HANDS — TODAY.

Contact your Medtronic sales representative  
or visit [medtronic.com/covidien](https://medtronic.com/covidien)



## REFERENCES

† Pre-Clinical results may not correlate with clinical performance in humans.

\* Vascular reload has standard height staples

1. Based on internal test report # RE00012950, Signia™ Loading Units for use with Tri-Staple™ 2.0 Cartridges Simulated Use Validation Report Surgeons and Nurses. November 21, 2016.
2. Based on internal test report # R00019018, Signia™ Loading Unit Lockout Force Testing. August 12, 2015. Based on internal benchtop test report # RE00012189, Signia™ loading units reliability test report.
3. Based on internal benchtop test report # 2150-067-0, Anvil deflection: 305SS vs 305WH SS. Feb. 29, 2016.
4. Based on internal benchtop test report # 2150-001-1, Knife geometry testing for MULU program.
5. Based on internal test report # PCG-001, Tyvek pull-apart test comparing Echelon™\* and Tri-Staple™ technology (data on file at Medtronic). March 2011.
6. When compared to Echelon Flex™\* green reloads as part of a September 2, 2011 analysis comparing different stapler designs and their performance and impact on tissues under compression using two-dimensional finite element analysis. Based on internal engineering report # 2128-002-2, Final analysis of staple line vascularity using MicroCT. April 27, 2015.
7. When compared to Ethicon Echelon Flex™\* uniform staple reloads as part of a bench study conducted in murine models, the vascular volume was statistically superior with Tri-Staple™ (p=.011) Based on internal test report # RE00024826.
8. Based on internal test report # PCG-004, Undercrimp comparisons in increasing pads of foam between Echelon™\* and Tri-Staple™ technology (data on file at Medtronic). January 2012.
9. Based on internal test report # PCG-006, Staple Formation Comparison between Medtronic EGIA60AXT and Ethicon ECR60G in an Ex-Vivo Tissue Model (data on file at Medtronic). January 2012.
10. Based on internal test report # PCG-018, 2D FEA of Linear Staplers (data on file at Medtronic). November 2012.
11. Based on internal test report # PCG-019, Comparative Test of Medtronic Endo GIA™ Black Reloads with Tri-Staple™ Technology and Ethicon ECHELON FLEX™\* Black Reloads (data on file at Medtronic). June 2014.
12. Based on internal test report # PCG-007 rev 1, When 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.
13. Based on PT00002451 Signia™ Stapler User Manual, Page 13.
14. Based on internal test report # RE00024826, Signia™ stapling system summative usability report, January 2016.
15. Based on internal test report # R2146-151-0, Powered Stapling Firing Speed DOE Analysis and ASA Parameters, 2015.
16. Based on internal test report # R2146-173-0, ASA Verification Testing with Slow Speed Force Limit Evaluation, 2015.