



## Advancing staple line security, even in challenging conditions

There's a lot riding on your staple line. The **ECHELON™+ Stapler with GST Reloads** advances security to deliver fewer leaks at the staple line and better staple formation, even in challenging conditions.<sup>1,2</sup>



**ETHICON**

Johnson & Johnson SURGICAL TECHNOLOGIES

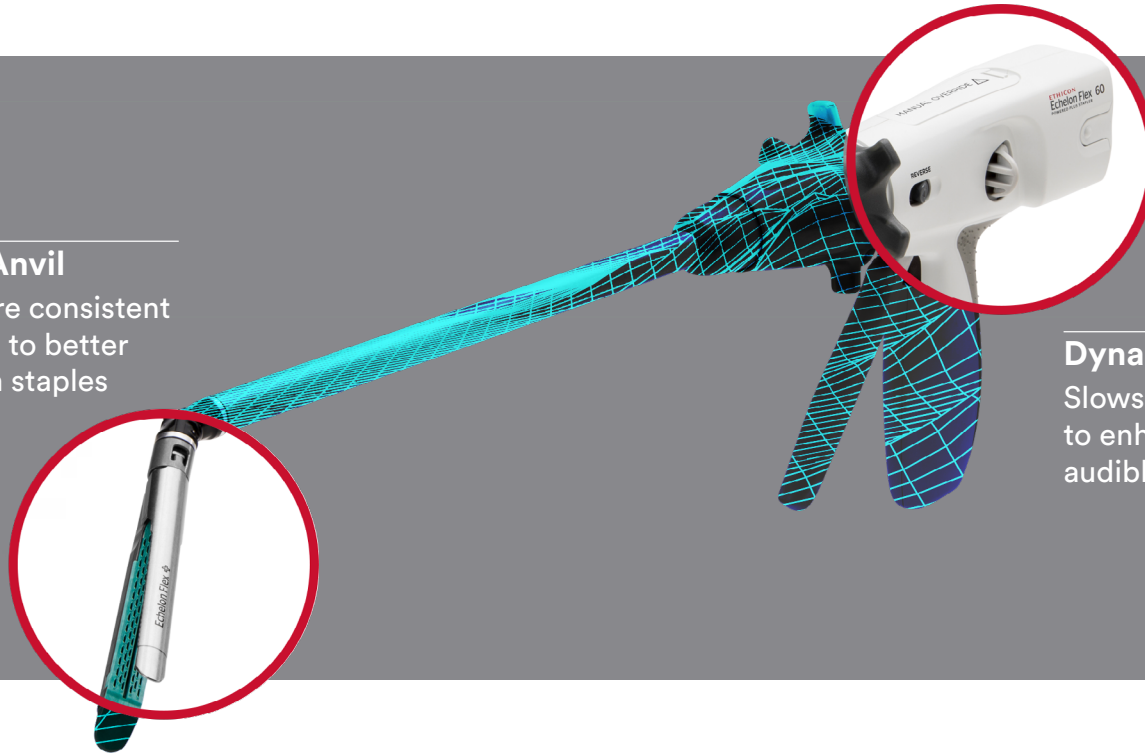
<sup>1</sup> Benchtop testing in porcine tissue  $\leq 52\text{mmHg}$  (Double the 26mmHG average pressure experienced during intra-operative leak test), comparing Ethicon ECHELON+ Stapler PSEE60A with GST Reloads GST60B to Medtronic Signia Stapler with Tri-Staple Reloads EGIA60AMT and Medtronic Endo GIA™ with Tri-Staple™ Reloads EGIA60AMT. Cumulative number of leaked tests (14/30), (23/30), (25/30) respectively,  $n=30$   $p < 0.05$ . (150356-200818) <sup>2</sup> Benchtop testing in 3.3mm and 4.0mm porcine tissue comparing malformed staples between ECHELON+ Stapler with GST Reloads (GST60G, GST60T) to Medtronic Signia™ Stapler with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT) and Endo GIA™ with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT). Percentage malformed results: 1.14% vs 4.28%,  $p < 0.05$ . (151140-200826)

# Built to meet the demands of challenging tissue

When stapling, especially in challenging tissue, gentle tissue handling and proper compression are fundamental to ensuring good staple line integrity and helping reduce complications like leaks and bleeds. **The ECHELON™+ Stapler with GST Reloads advances staple line security**—even in challenging conditions.

## ECHELON™+ Anvil

Designed for more consistent compression and to better capture and form staples



## Dynamic Firing

Slows as it engages thick tissue to enhance compression and audible feedback

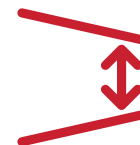
Superior tissue management and control compared to Medtronic powered and manual staplers with Tri-Staple™ Reloads:



**Fewer leaks at the staple line<sup>1</sup>**



**Better staple formation in thick tissue<sup>2</sup>**



**More uniform compression<sup>3</sup>**



**Less slippage during firing<sup>4</sup>**

<sup>1</sup> Benchtop testing in porcine tissue  $\leq 30\text{mmHg}$  (26mmHG average pressure experienced during intra-operative leak test), comparing Ethicon ECHELON+ Stapler PSEE60A with GST Reloads GST60B to Medtronic Signia™ and Endo GIA™ Staplers with Tri-Staple Reloads EGIA60AMT,  $p < 0.05$ . (150352-200818) <sup>2</sup> Benchtop testing in 3.3mm and 4.0mm porcine tissue comparing malformed staples between ECHELON+ Stapler with GST Reloads (GST60G, GST60T) to Medtronic Signia™ Stapler with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT) and Endo GIA™ with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT). Percentage malformed results: 1.14% vs 4.28%,  $p < 0.05$ . (151140-200826) <sup>3</sup> Benchtop testing in 3.2mm synthetic tissue comparing staple line compression between ECHELON+ Stapler with GST Reloads (PSEE60A, GST60B, GST60G) to Medtronic Signia™ and Endo GIA™ Staplers with Tri-Staple™ Reloads (EGIA60AMT). Resulting in a statistically significant compression uniformity,  $p < 0.05$ . <sup>4</sup> In benchtop testing in porcine tissue, the ECHELON™ GST System (PSEE60A, GST60G) had less mean longitudinal change in 3.3mm thick tissue, 0.94 vs. 3.65, compared to the Signia™ Stapling System (SIGPHANDLE, EGIA60AMT),  $p\text{-value} < 0.05$ . Based on additional testing, ECHELON+ Stapler with GST Reloads showed less average tissue slippage and was statistically concluded to have at most 0.764mm more tissue slippage than the ECHELON FLEX™ GST System ( $p=0.05$ ). sample size of  $n=15$  per group. (148786-220906)

# Re-engineered for advanced performance at the staple line



## ECHELON™+ Anvil

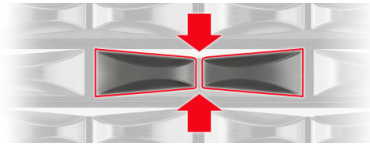
**Refined curvature** for more consistent compression and wider tapered pockets to better capture and form staples



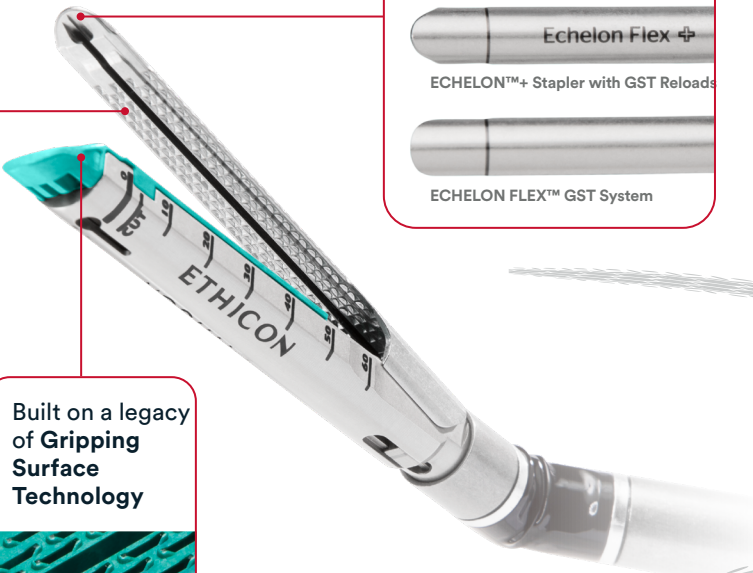
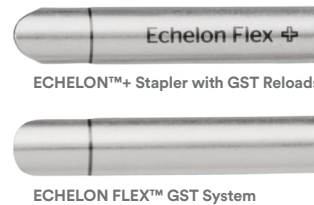
## Dynamic Firing

**Optimized firing speed** that slows more dramatically in thick or dense tissue to enhance compression and audible feedback

**Wider tapered anvil pockets** for increased capture area and to guide staples into symmetric B-form



**Atraumatic tapered tip** designed for gentler tissue handling and improvedotomy entry



Built on a legacy of **Gripping Surface Technology**



**Listen** as the motor slows to optimize compression in thick tissue

**Thin tissue**

**Thick tissue**



# Security you can rely on: Consistently outperformed Signia™ and Endo GIA™ Staplers with Tri-Staple™ Reloads<sup>1-4</sup>

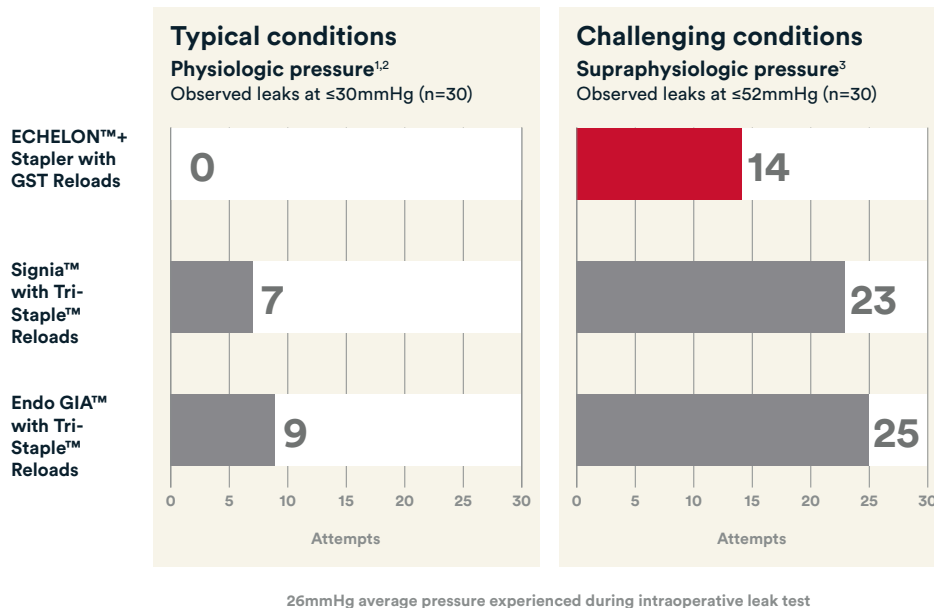


Fewer leaks at the staple line<sup>1-3</sup>

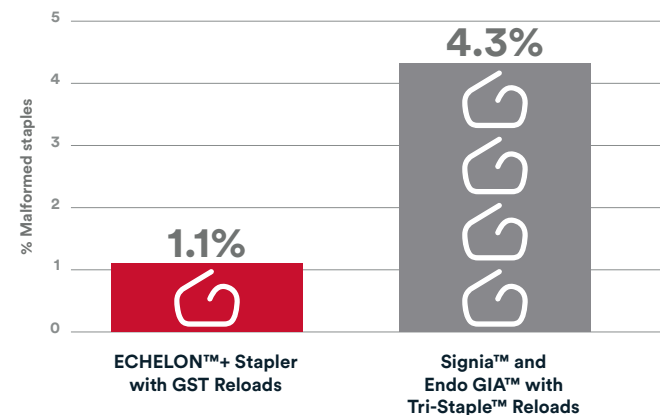


Better staple formation in thick tissue<sup>4</sup>

## Observed leaks at the staple line

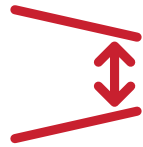


## Percentage of malformed staples in thick tissue<sup>4</sup>



<sup>1</sup> Benchtop testing in porcine tissue ≤ 30mmHg (26mmHG average pressure experienced during intra-operative leak test), comparing Ethicon ECHELON+ Stapler PSEE60A with GST Reloads GST60B to Medtronic Signia Stapler with Tri-Staple Reloads EGIA60AMT. Cumulative number of leaked tests (0/30) & (7/30) respectively, n=30 p < 0.05. (149513-200811) <sup>2</sup> Benchtop testing in porcine tissue ≤ 30mmHg (26mmHG average pressure experienced during intra-operative leak test), comparing Ethicon ECHELON+ Stapler PSEE60A with GST Reloads GST60B to Medtronic Endo GIA™ with Tri-Staple™ Reloads EGIA60AMT. Cumulative number of leaked tests (0/30) & (9/30) respectively, n=30 p < 0.05. (149514-200811) <sup>3</sup> Benchtop testing in porcine tissue ≤ 52mmHg (Double the 26mmHG average pressure experienced during intra-operative leak test), comparing Ethicon ECHELON+ Stapler PSEE60A with GST Reloads GST60B to Medtronic Signia Stapler with Tri-Staple Reloads EGIA60AMT and Medtronic EndoGIA with Tri-Staple Reloads EGIA60AMT. Cumulative number of leaked tests (14/30), (23/30), (25/30) respectively, n=30 p < 0.05. (150356-200818) <sup>4</sup> Benchtop testing in 3.3mm and 4.0mm porcine tissue comparing malformed staples between ECHELON+ Stapler with GST Reloads (GST60G, GST60T) to Medtronic Signia™ Stapler with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT) and Endo GIA™ with Tri-Staple™ Reloads (EGIA60AMT, EGIA60AXT). Percentage malformed results: 1.14% vs 4.28%, p < 0.05. (151140-200826)

# Superior tissue management and control compared to Medtronic powered and manual staplers with Tri-Staple™ Reloads



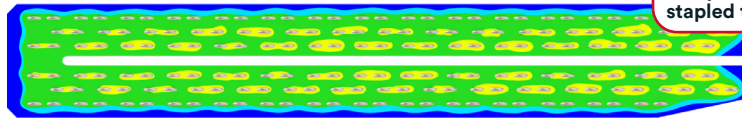
More uniform compression<sup>1</sup>



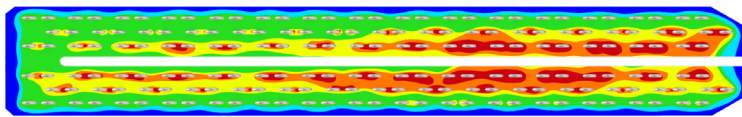
Less tissue slippage during firing<sup>2</sup>

Two-stage compression designed to prepare tissue for stapling and achieve a uniform staple height

**32%**  
more uniform  
compression of  
stapled tissue<sup>1</sup>



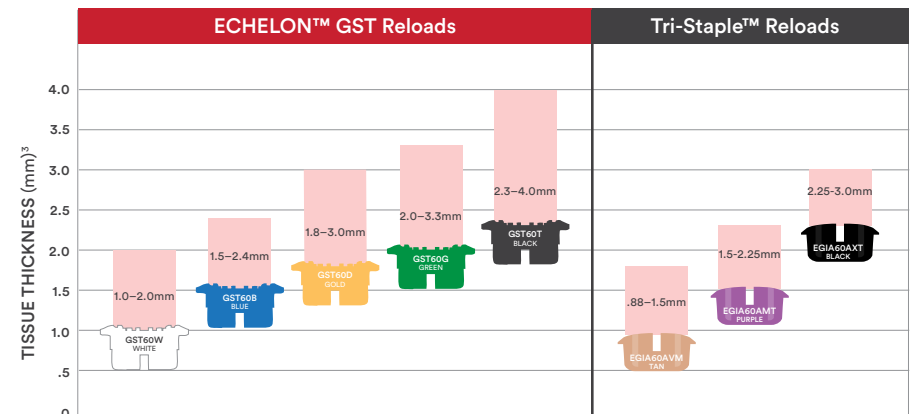
ECHELON™+ Stapler with GST Reloads



Endo GIA™ with Tri-Staple™ Reloads



Exceptional staple line integrity, across the broadest range of tissue thickness<sup>3</sup>



<sup>1</sup> Benchtop testing in 3.2mm synthetic tissue comparing staple line compression between ECHELON+ Stapler with GST Reloads (PSEE60A, GST60B, GST60G) to Medtronic Signia™ and Endo GIA™ Staplers with Tri-Staple™ Reloads (EGIA60AMT). Resulting in a statistically significant compression uniformity,  $p < 0.05$ . <sup>2</sup> Replace text with: In benchtop testing in porcine tissue, the ECHELON™ GST System (PSEE60A, GST60G) had less mean longitudinal change in 3.3mm thick tissue, 0.94 vs. 3.65, compared to the Signia™ Stapling System (SIGPHANDLE, EGIA60AMT),  $p$ -value  $< 0.05$ . Based on additional testing, ECHELON+ Stapler with GST Reloads showed less average tissue slippage and was statistically concluded to have at most 0.764mm more tissue slippage than the ECHELON FLEX™ GST System ( $p = 0.05$ ). sample size of  $n = 15$  per group. (148786-220906) <sup>3</sup> ECHELON FLEX GST System designed and tested to produce well-formed staple lines blocking potential leak paths in tissue thicknesses from 1.0mm to 4.0mm. Porcine tissues measured at 8g/mm<sup>2</sup> prior to firing and comfortably compressed during firing per the IFU. vs: Medtronic Tri-Staple portfolio (intended thickness range 0.75mm - 3.0mm [per Medtronic P100154]); and, Intuitive EndoWrist® Stapler portfolio (intended thicknesses range - 0.75mm - 2.0mm [per user manual PN 551681-07 Rev. C 2016.12]). (082493-220920)

# ECHELON Staplers: Performance-driven results, backed by evidence

Design differences matter when it comes to performance and results. Since 2017, the use of ECHELON Powered Staplers has demonstrated an association with improved clinical and economic outcomes—across tissue types, patient populations and countries—in large-scale, real-world, peer-reviewed studies.<sup>1</sup>

**ECHELON > a better way to staple**

## Improved clinical and economic outcomes



## Demonstrated by large-scale, real-world evidence<sup>1</sup>



**5**  
studies



**4**  
countries



**700+**  
hospitals



**40+**  
authors



**41,500+**  
patients

<sup>1</sup> Based on literature search performed May 2019. Large-scale is defined as sample size greater than 3,500 cases. <sup>2</sup> Rawlins L, Johnson BH, Johnston SS, et al. Comparative Effectiveness Assessment of Two Powered Surgical Stapling Platforms in Laparoscopic Sleeve Gastrectomy: A Retrospective Matched Study. Medical Devices: Evidence and Research. 2020;13:195–204. doi: <https://doi.org/10.2147/MDER.S256237>. Analysis of clinical and economic outcomes from 982 laparoscopic sleeve gastrectomy cases between March 1, 2017 and December 31, 2018 from Premier Healthcare Database (0.61% versus 2.24%, p=0.0012; \$9,771 vs. \$10,487, p<0.001). (140350-200514).

# Ordering information

## ECHELON™+ Stapler with GST Reloads (ECHELON FLEX™ Powered Plus Stapler and ECHELON ENDOPATH™ Reloads with GST)

Code	Description	Jaw length	Qty
PCEE45A	Compact Articulating Endoscopic Linear Cutter,* 280mm	45mm	3
PCEE60A		60mm	
PSEE45A	Standard Articulating Endoscopic Linear Cutter,* 340mm	45mm	3
PSEE60A		60mm	
PLEE45A	Long Articulating Endoscopic Linear Cutter,* 440mm	45mm	3
PLEE60A		60mm	



\*Instrument does not contain a reload

### Reloads

Code	Color	Description	Open staple height	Closed staple height	Qty
GST45W	White	White reload intended for use in thin tissue	2.6mm	1.0mm	12
GST60W					
GST45B	Blue	Blue reload intended for use in regular tissue	3.6mm	1.5mm	12
GST60B					
GST45D	Gold	Gold reload intended for use in regular/thick tissue	3.8mm	1.8mm	12
GST60D					
GST45G	Green	Green reload intended for use in thick tissue	4.1mm	2.0mm	12
GST60G					
GST45T	Black	Black reload intended for use in very thick tissue	4.2mm	2.3mm	12
GST60T					



### ECHELON ENDOPATH™ Staple Line Reinforcement

Code	Description	Qty
ECH60R	ECHELON ENDOPATH™ Staple Line Reinforcement	6



#### How to order

All purchase orders are made to Johnson & Johnson Health Care Systems, Inc. (JJHCS).

If you want to order direct, you may order electronically (online) at:

- <https://us.jjcustomerconnect.com> or 1-866-565-4283
- Electronic Data Interchange (EDI) Helpline: 1-800-262-2888

Or, to place a non-electronic (manual) order, contact Johnson & Johnson Health Care Systems Inc. at 1-800-255-2500 between 8:30 a.m. and 6:30 p.m. (Eastern Standard Time) or fax us at 1-732-562-2212.

#### Customer support

For product use assistance, clinical guidelines, service and repair, emergency assistance, copy of a 510(k) clearance letter, or complaints, please contact our Customer Support Center by calling 877-ETHICON (384-4266). Our support center is staffed 24 hours a day, 7 days a week by qualified nurses to answer your product-related questions.

**Learn more at: [ethicon.com/EchelonPlus](https://ethicon.com/EchelonPlus)**

# ETHICON

Johnson & Johnson SURGICAL TECHNOLOGIES

The third-party trademarks used herein are trademarks of their respective owners.

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.

©Ethicon US, LLC. 2022. All Rights Reserved. 156059-221013