

INTUITIVE

Da Vinci

SureForm Staplers

With SmartFire technology





Achieve more with your SureForm staplers

At its core is SmartFire technology, which monitors tissue compression before and during firing, making automatic adjustments to optimize the staple line.

A 120° cone of articulation gives you the freedom to approach tissue where it naturally lies, potentially reducing the need to pull it towards the stapler.*

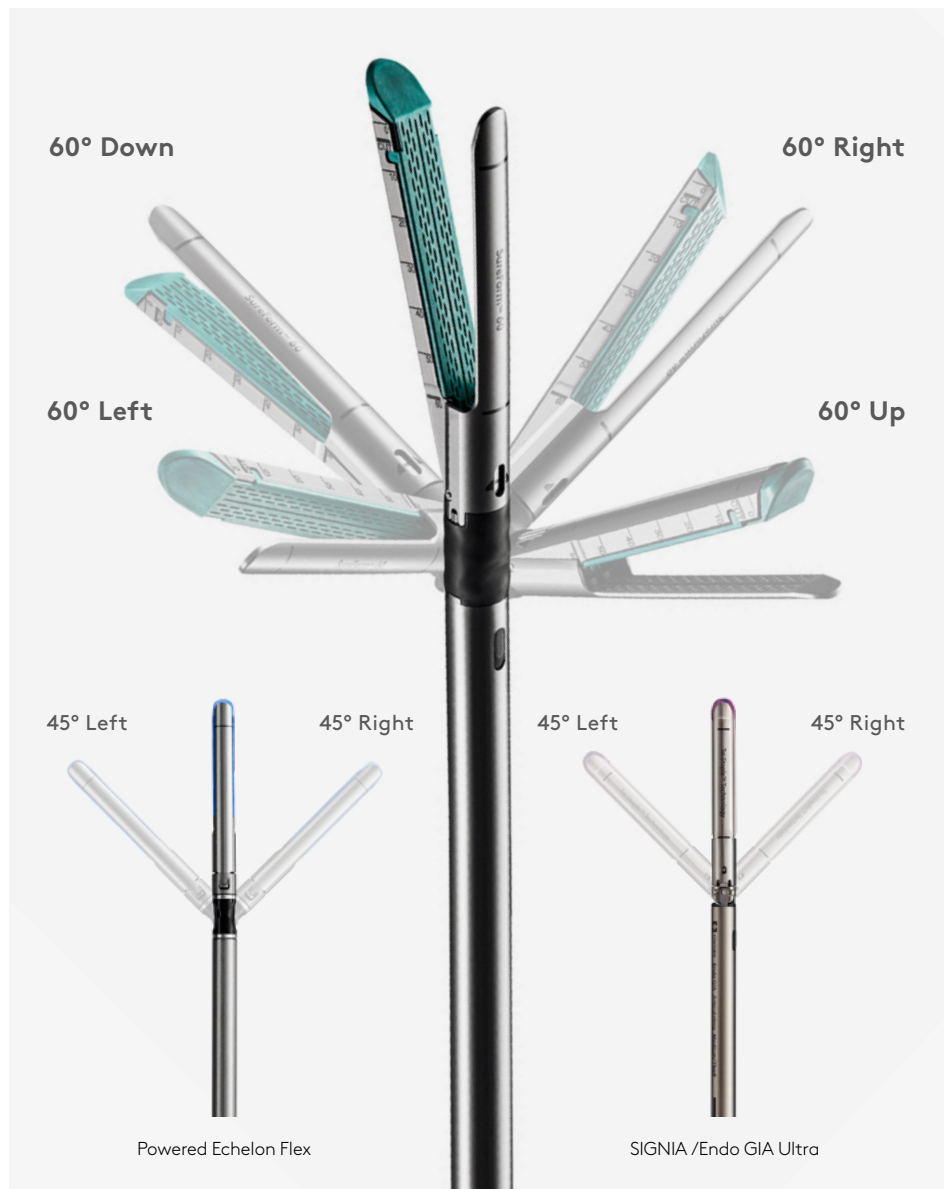
When you choose SureForm staplers, you can potentially reduce uncertainty and increase stapling performance.*

* Results from testing on file.

More maneuverability

A 120° cone of articulation gives you the freedom to maneuver your stapler and position it where you prefer.

Utilize a greater range of motion than the human hand or leading laparoscopic staplers with SureForm staplers.*



* Compared to Endo GIA Ultra with Tri-Staple technology, SIGNIA with Tri-Staple 2.0 technology, and Powered Echelon Plus with GST as of March 2019

More intelligence

With one press of a pedal you activate SmartFire technology, which measures tissue compression before and during firing.

SmartFire technology uses more than 1,000 measurements per second* to make automatic adjustments to the firing process as staples are being formed and as the transection is being made.

This advanced firing technology is easy to use and helps ensure a more consistent staple line, all while preventing damage across a range of tissue thicknesses.**

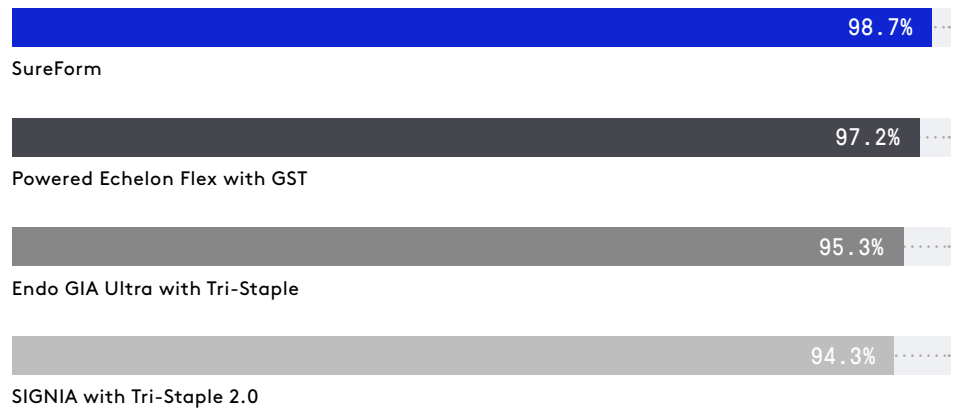


**Results from testing on file

**Compared to Endo GIA Ultra with Tri-Staple technology, SIGNIA with Tri-Staple 2.0 technology, and Powered Echelon Plus with GST as of March 2019

More optimally formed staples across a range of tissue thicknesses*

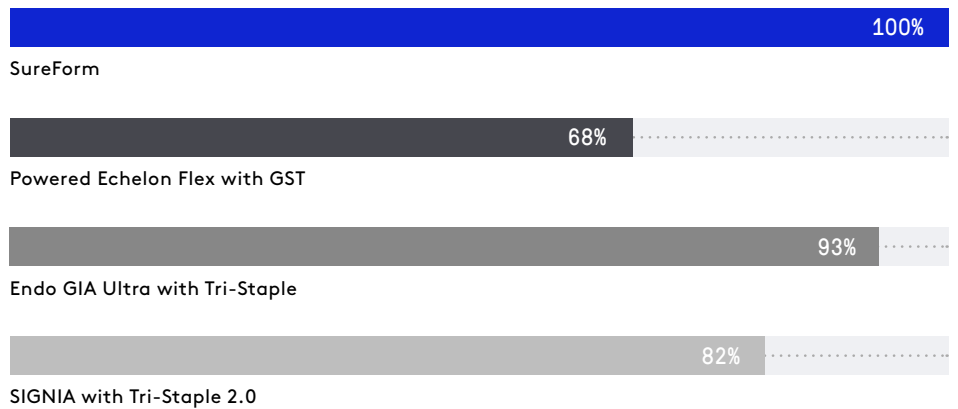
Percentage of optimally formed staples in thick tissue (>4mm)*



* Testing performed with black reloads on in vivo porcine stomach tissue with both 45mm and 60mm devices. Sureform 60 is significantly better than Endo GIA and SIGNIA in thick tissue. Sureform 45 is significantly better than all the three staplers in thick tissue. Data on file as of March 2019.

Bring tissue together with less outer layer tearing*

Successful tissue approximation rate*



* Testing performed with black reloads on in vivo porcine stomach tissue with both 45mm and 60mm devices. SureForm 45 & SureForm 60 are significantly better than Echelon Flex. Data as of March 2019.

More consistency

SmartFire's automatic measurements and adjustments during firing help you maintain control of the tissue.

This ensures cut line integrity is not lost, and the expected length of transection is achieved.

These consistent results can help you avoid using an unanticipated reload, potentially reducing cost.

Deliver a more consistent cut line length across thin and thick tissue.*

Figure A: Average cutline length (60 mm staplers)

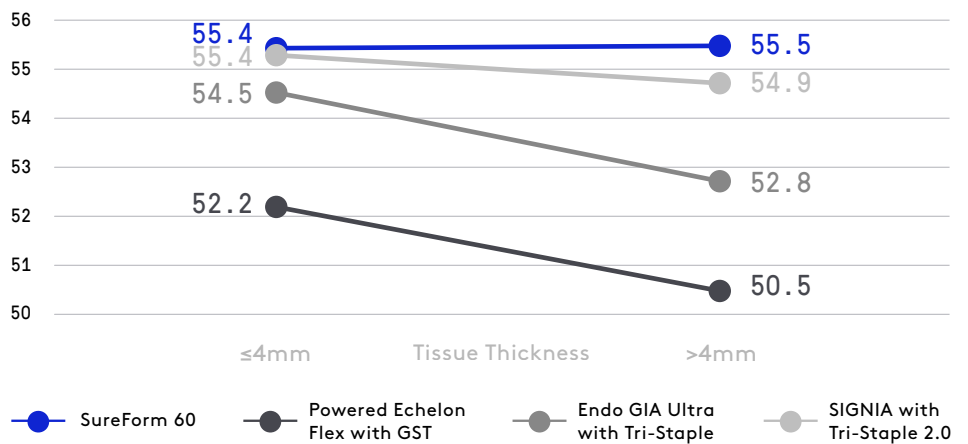
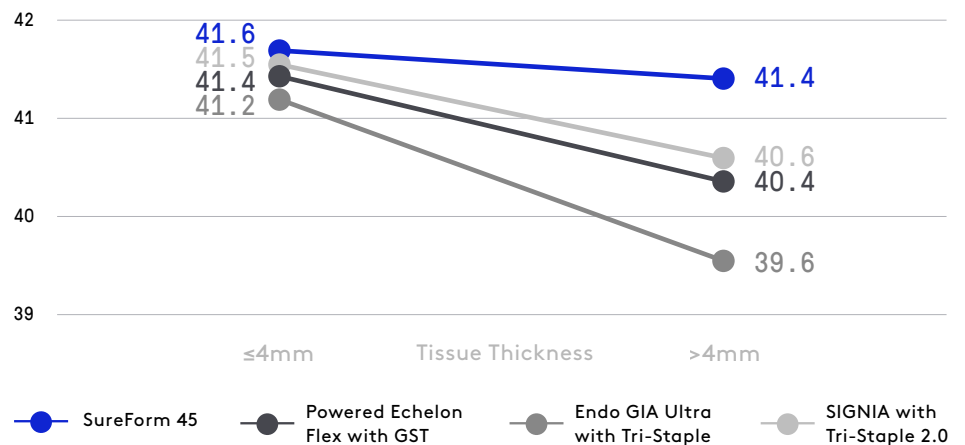


Figure B: Average cutline length (45 mm staplers)



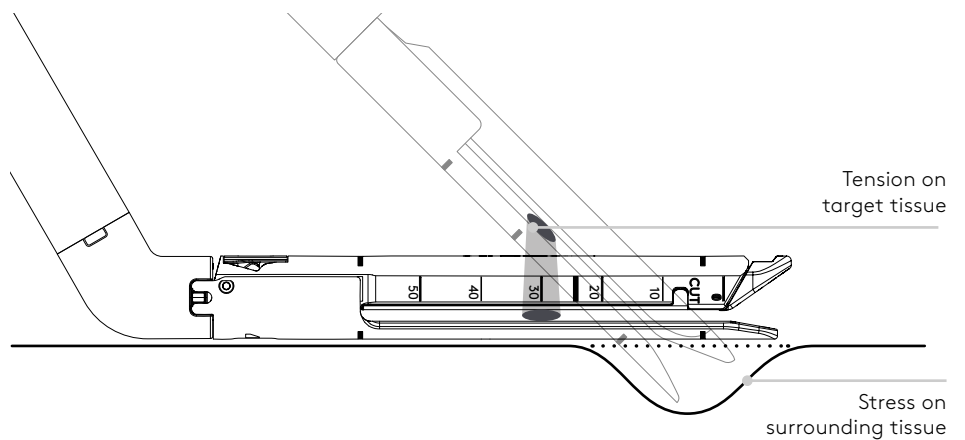
* Testing performed with black reloads on ex vivo porcine stomach tissue. The results of cut line consistency were determined via linear regression of the effect of tissue thickness on cut line length. The cutline length of SureForm 60 and SIGNIA with 60mm reloads were NOT significantly affected by tissue thickness, while the cutline length of Echelon Flex

and Endo GIA with 60mm reloads were affected by tissue thickness (Figure A). The cutline length of SureForm 45 were NOT significantly affected by tissue thickness, while the cutline length of all three other staplers with 45mm reloads were affected by tissue thickness (Figure B). Data on file as of March 2019.

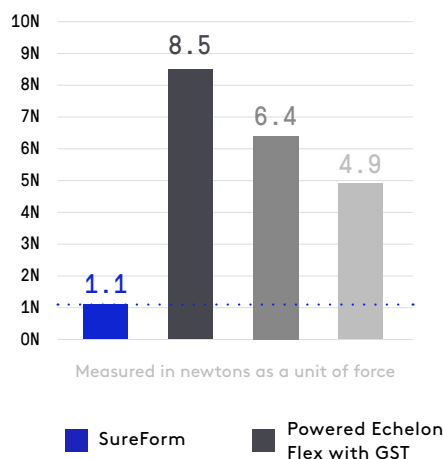
More precision

With the full cone of articulation and anvil centric design of SureForm staplers, you can position the device exactly where you want, minimizing tension on the target tissue and stress to the surrounding anatomy.

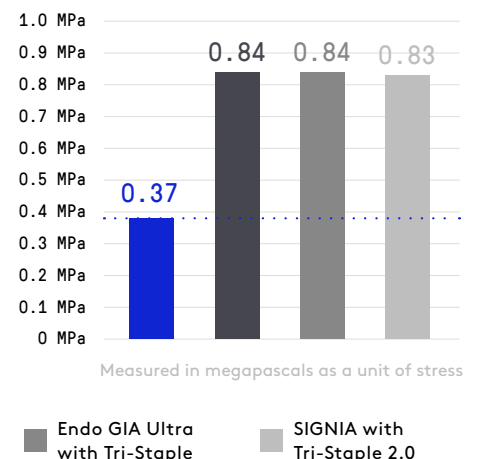
Less tension on target tissue and less stress on surrounding tissue during positioning and clamping*



Average tension applied to target tissue while positioning and clamping stapler



Average stress applied to surrounding tissue while positioning and clamping stapler



* Testing performed in benchtop surgeon evaluations. Surgeons using SureForm staplers applied significantly less target tissue tension during positioning and clamping than Echelon Flex, Endo GIA, and SIGNIA. Surgeons using

SureForm staplers applied significantly less surrounding tissue stress during positioning and clamping than Echelon Flex, Endo GIA, and Signia. Data on file as of March 2019.



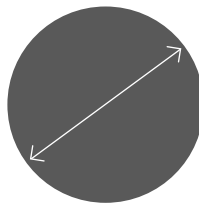
More stability during firing*

Average amount of tip movement during firing in a side-by-side benchtop test.



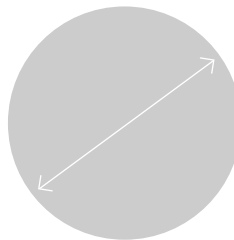
4.5 mm

SureForm 60



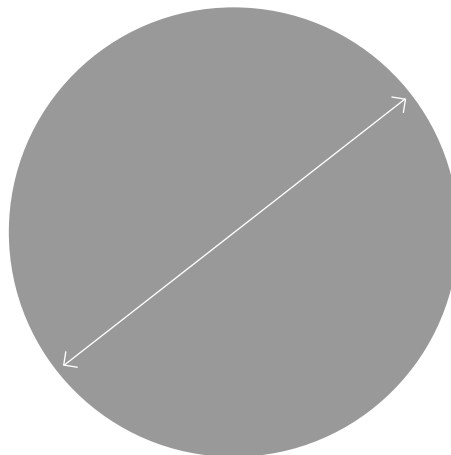
11.9 mm

**Powered Echelon
Flex with GST**



13.9 mm

**SIGNIA with
Tri-Staple 2.0**



28.0 mm

**Endo GIA Ultra
with Tri-Staple**

* As tested in ex vivo surgeon evaluations. SureForm 60 and competitive 60mm stapler data displayed. SureForm 45 and SureForm 60 demonstrated significantly less tip movement

during firing than Echelon Flex, SIGNIA, and Endo GIA. Data on file as of March 2019.

Images are for illustration purposes only.



Additional specifications of SureForm 45 and SureForm 60

Stapler specifications

SureForm 45: 45 mm staple line/40 mm cut line

SureForm 60: 60 mm staple line/55 mm cut line

An anvil centric design

Operates through a 12 mm cannula

12 fires per device

Single patient use


Reloads specifications


White, Blue, Green, Black reloads



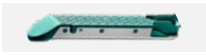





6 rows of staples

New knife with every reload

Ordering Information

	Part Number
 <p>SureForm 45 6 devices per box</p> <p>da Vinci X and da Vinci Xi Surgical Systems</p>	480445

 <p>SureForm 60 6 devices per box</p> <p>da Vinci X and da Vinci Xi Surgical Systems</p>	480460
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	Product description	Qty/box	Uses	Item code
	SureForm 45 White Reloads	12	1 firing	48345W
	SureForm 45 Blue Reloads	12	1 firing	48345B
	SureForm 45 Green Reloads	12	1 firing	48345G
	SureForm 45 Black Reloads	12	1 firing	48345T
	SureForm 60 White Reloads	12	1 firing	48360W
	SureForm 60 Blue Reloads	12	1 firing	48360B
	SureForm 60 Green Reloads	12	1 firing	48360G
	SureForm 60 Black Reloads	12	1 firing	48360T

To learn more about da Vinci SureForm stapler products, visit:

www.intuitive.com/en-gb

To contact a representative or receive additional information:

Visit www.intuitive.com/en-gb or call Intuitive Customer Service:

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Disclosure

The comparative studies highlighted in this document were performed in a benchtop setting, in vivo, or in a virtual setting and were not statistically powered to show the differences seen. The significance level to detect statistically significant differences was set at $p < 0.05$.

Product Information

Individual outcomes may depend on several factors, including but not limited to patient characteristics, disease characteristics, and/or surgeon experience.

Da Vinci surgical systems

The Intuitive Surgical Endoscopic Instrument Control Systems (da Vinci X and da Vinci Xi Surgical Systems) are intended to assist in the accurate control of Intuitive Surgical Endoscopic Instruments during urologic surgical procedures, general laparoscopic surgical procedures, gynecologic laparoscopic surgical procedures, general thoracoscopic surgical procedures, and trans-oral otolaryngology surgical procedures restricted to benign tumors and malignant tumors classified as T1 and T2, and for benign base of tongue resection procedures. The systems are indicated for adult and pediatric use (except for trans-oral otolaryngology surgical procedures). They are intended to be used by trained physicians in an operating room environment.

The da Vinci X and da Vinci Xi Surgical Systems are class IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

SureForm Instruments

The SureForm 60 and SureForm 45, SureForm 60 and SureForm 45 Reloads are intended to be used with a compatible da Vinci

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Company registration
No 6727762

Surgical System for resection, transection, and/or creation of anastomoses in General, Thoracic, Gynecologic, Urologic, and Pediatric surgery. The devices can be used with staple line or tissue buttressing material (natural or synthetic).

The SureForm 60 and SureForm 45, SureForm 60 and SureForm 45 Reloads are class IIa and IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

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