INTUITIVE

Da Vinci SureForm

Achieve more with your stapler



Achieve more with your stapler

Eliminate guesswork with the intelligence and control of a SureForm® stapler.*

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* allows you the freedom to approach tissue where it naturally lies, delivering greater maneuverability around target tissue and potentially reducing tissue tension.†

When you choose SureForm staplers, you can reduce uncertainty and increase stapling performance like never before.*

* Results from internal testing on file.

† Testing performed in benchtop surgeon evaluations. Surgeons using SureForm staplers applied significantly less target tissue tension during position and clamping than Echelon Flex, Endo GIA, and Signia. Data on file as of March 2019.


CUT
10
20
30
40
45
SureForm™ 45

Complete surgeon control

All SureForm staplers are seamlessly integrated with our da Vinci® surgical systems* to allow you full control of positioning, clamping, and firing from the surgeon console.

Intuitive offers a full portfolio of SureForm staplers to ensure you have the right instrument to meet your procedural needs.

SureForm 60



SureForm 45



SureForm 45 Curved-Tip



8 mm SureForm 30 Curved-Tip



* Compatible with the da Vinci X® and da Vinci Xi® surgical systems.

Greater range of motion

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

01
60° Down

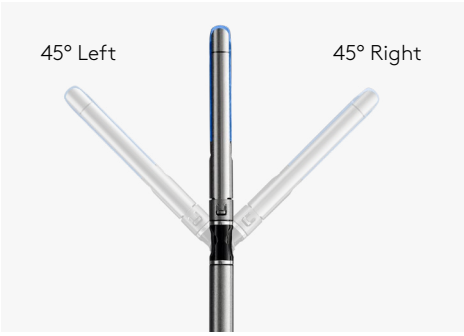
02
60° Left

03
60° Right

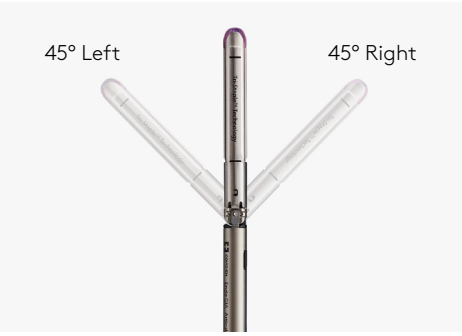
04
60° Up



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



Powered Echelon Flex



Signia / Endo GIA Ultra

*Results from internal 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.

Intelligent stapling

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.

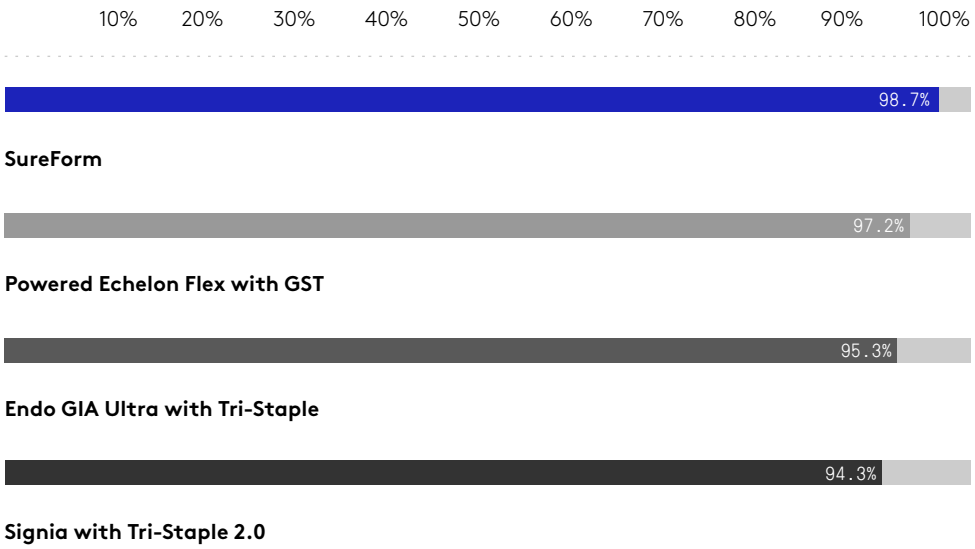
This advanced firing technology is easy to use and helps ensure a more consistent staple line, all while preventing damage across a range of tissue thicknesses.†



* Results from internal 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.

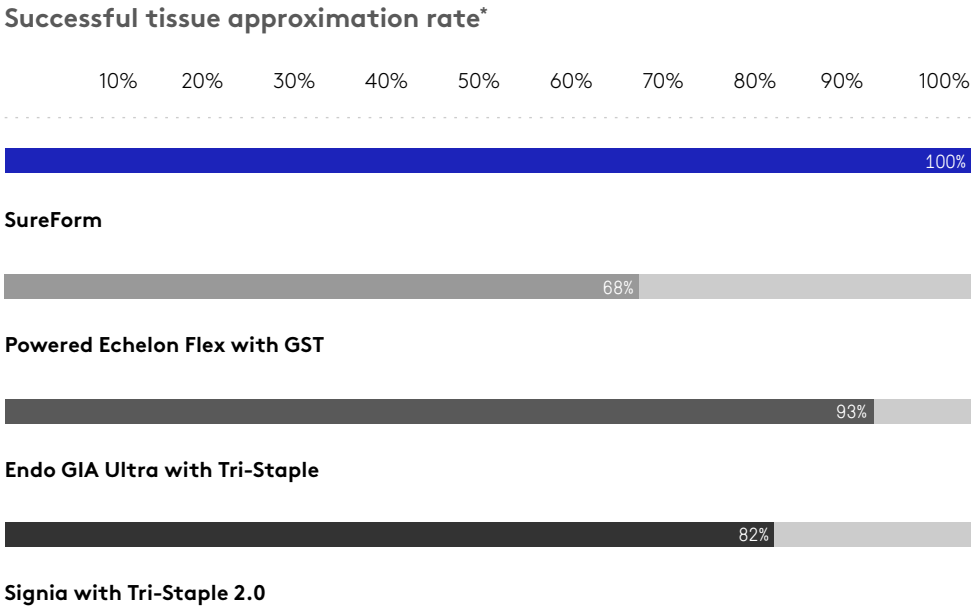
Optimally formed staples across a range of tissue thicknesses*

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



* Testing performed with black reloads on in vivo porcine stomach tissue with both 45 mm and 60 mm devices. SureForm 60 has significantly more optimally formed staples than Endo GIA and Signia in thick tissue. SureForm 45 has significantly more optimally formed staples than all the three staplers in thick tissue. Data on file as of March 2019.

Bring tissue together with less outer layer tearing*



* Testing performed with black reloads on in vivo porcine stomach tissue with both 45 mm and 60 mm devices. SureForm 45 and SureForm 60 have significantly less outer tissue tearing 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 protects the integrity of the cut line and helps achieve the expected length of transection. 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)

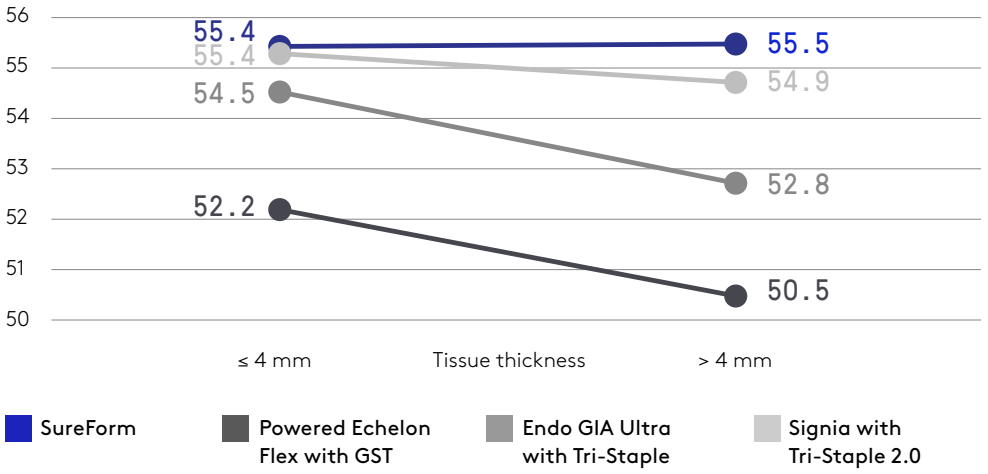
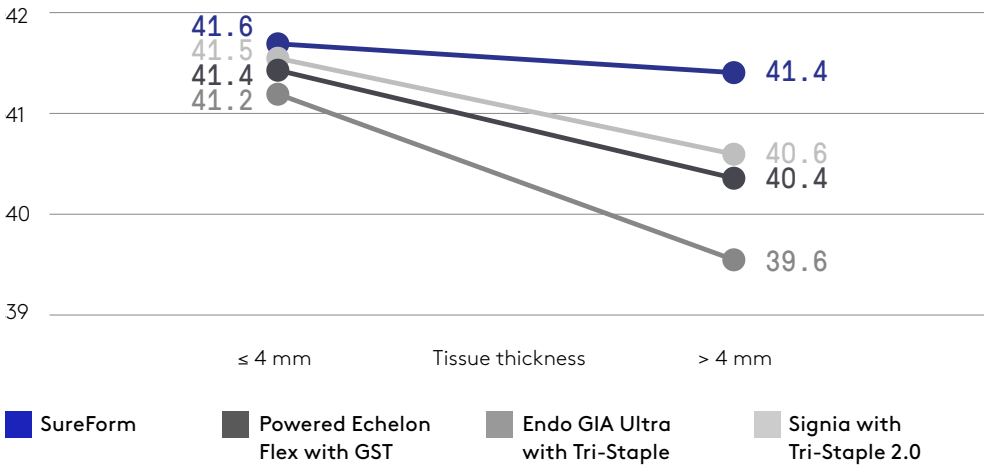


Figure B: Average cutline length (45 mm staplers)



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

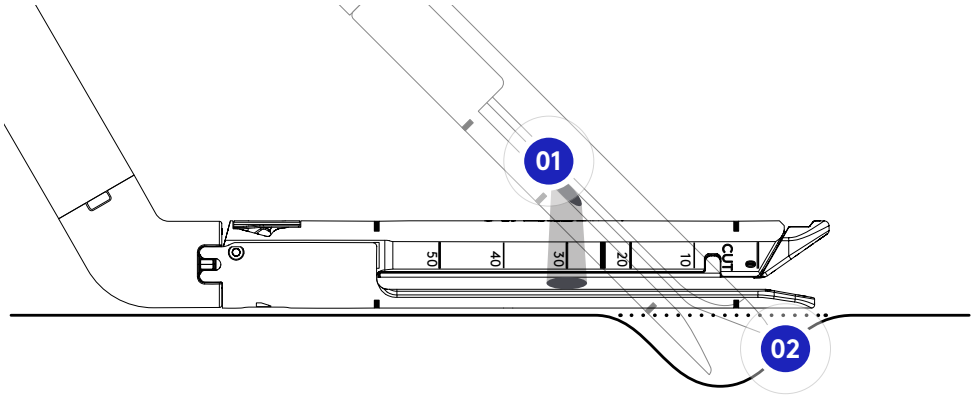
Less tension

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.

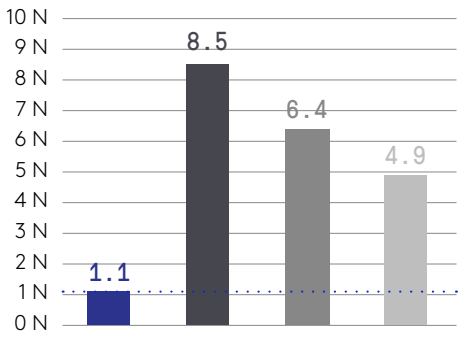
01
Tension on target tissue.

02
Stress on surrounding tissue.

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

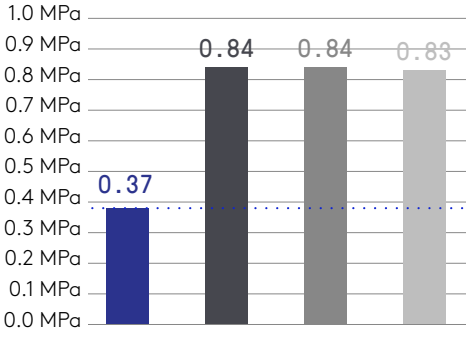


Average tension applied to target tissue while positioning and clamping stapler



Measured in newtons as a unit of force

Average stress applied to surrounding tissue while positioning and clamping stapler

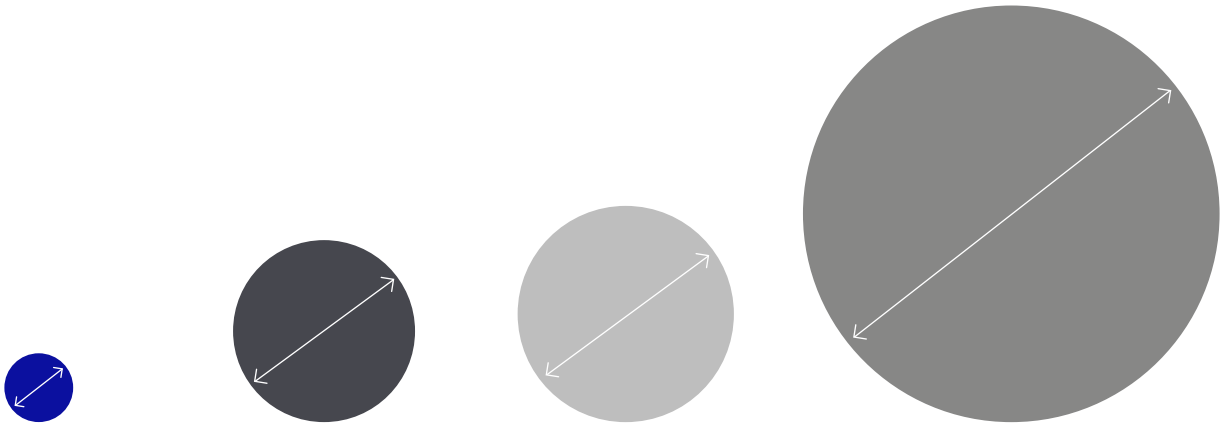


Measured in megapascals as a unit of stress

SureForm
Powered Echelon Flex with GST
Endo GIA Ultra with Tri-Staple
Signia with Tri-Staple 2.0

* 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*



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

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

Images are for illustration purposes only and are not to the exact size.

* 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.


4

8 mm SureForm 30 Curved-Tip

Small stapler. Big impact.

Experience the performance of a SureForm stapler, now on a smaller scale.*



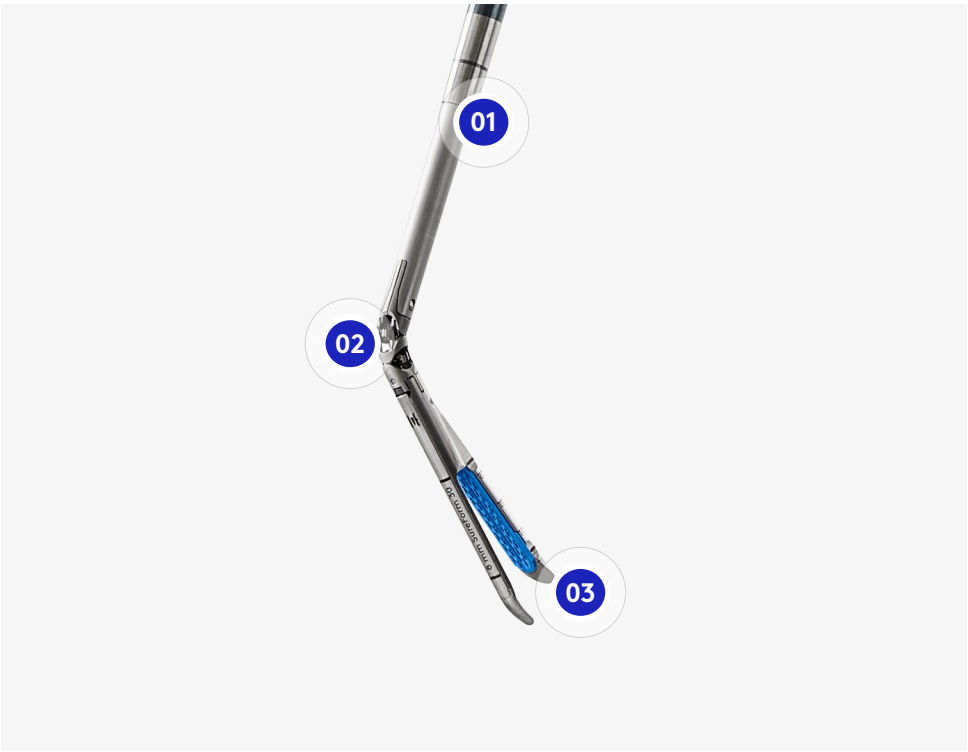
* Compared to 12 mm SureForm staplers.

More maneuverability*

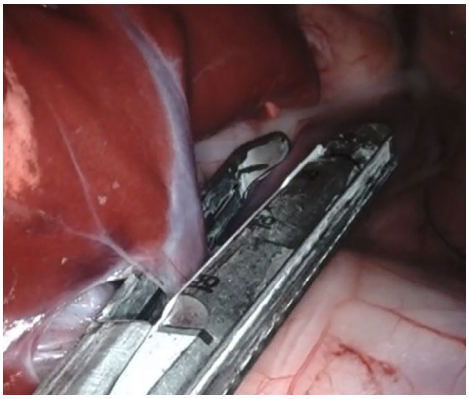
01
Fits through 8 mm cannula

02
120° articulation

03
Narrower curved-tip anvil*







The 8 mm SureForm 30 Curved-Tip fits through the standard cannula used with other da Vinci instruments, enabling you to choose the optimal angle to access tissue through any available port.

With SureForm's standard 120° of articulation, a 30 mm reload length, and a narrower*, curved-tip anvil, this stapler arms you with a greater range of motion† in tight spaces and the flexibility to position and maneuver it as needed.

* Compared to 12 mm SureForm staplers.
† Compared to Echelon Powered Vascular Stapler and Signia Small Diameter Reloads.

More precision

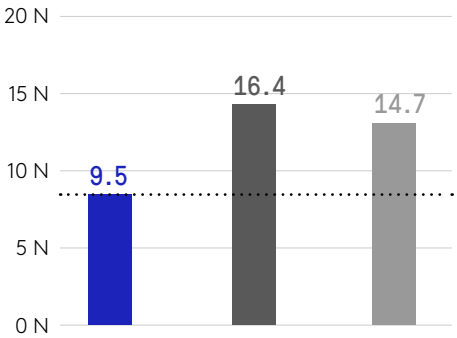
A narrower anvil fits through smaller dissection windows* allowing for easy access around vessels and the 120° of articulation helps you precisely position the stapler with less tissue tension.†

Less tension on target tissue and less stress on surrounding tissue during positioning, clamping, and firing.‡

36%
Less tension on target tissues† with 8 mm SureForm 30

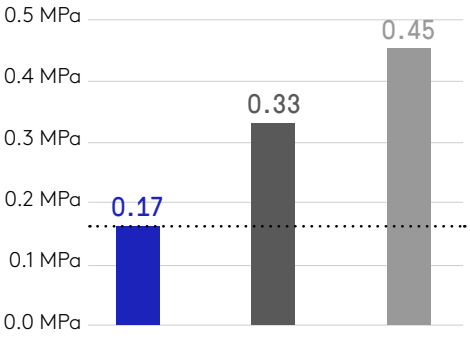
48%
Less stress on surrounding tissues† with 8 mm SureForm 30

Average tension applied to target tissue*



Measured in newtons as a unit of force

Average stress applied to surrounding tissue*



Measured in megapascals as a unit of stress

8 mm SureForm 30 | Echelon Powered Vascular Stapler | Signia Small Diameter Reloads

* Compared to 12 mm SureForm staplers.
† Compared to Ethicon Echelon Powered Vascular Stapler and Signia Small Diameter Reloads.
‡ Testing performed in benchtop surgeon evaluations. Surgeons using 8 mm SureForm 30 applied significantly less target tissue tension during positioning, clamping, and firing than Echelon PVS and Signia. Surgeons using 8 mm SureForm 30 applied significantly less surrounding tissue stress during positioning, clamping, and firing than Echelon PVS and Signia. Data on file as of March 2022.

Performance you can depend on

Built on the same trusted foundation as 12 mm SureForm staplers, the 8 mm SureForm 30 is powered by SmartFire technology, which monitors tissue compression before and during firing, making automatic adjustments to optimize the staple line.

30%

Less tip motion during clamping and firing with 8 mm SureForm 30 compared to the Echelon Powered Vascular stapler

46%

Less tip motion during clamping and firing with 8 mm SureForm 30 compared to the Signia Small Diameter reloads

More stability during firing*



1.4 mm

8 mm SureForm 30 Curved-Tip tip motion

2.0 mm

Echelon Powered Vascular Stapler tip motion

2.6 mm

Signia Small Diameter Reloads tip motion

Average amount of tip movement during firing in a side-by-side benchtop test. Images are for illustration purposes only and are not to the exact size.

* As tested in ex vivo surgeon evaluations. 8 mm SureForm 30 demonstrated significantly less tip movement during firing than Echelon Powered Vascular Stapler and Signia Small Diameter Reloads. Data on file as of March 2022.

Secure hemostasis

Substantially equivalent hemostasis*

8 mm SureForm 30 (2 row) has been tested with gray and white reloads on in vivo porcine vessels and pedicles, and demonstrated substantially equivalent hemostasis to SureForm 45 (3 row).*

Significantly better hemostasis†

8 mm SureForm 30 has been tested with white reloads on in vivo porcine vessels and bundles, and demonstrated significantly better hemostasis than Echelon Powered Vascular Stapler and Signia Small Diameter Reloads.†

* Compared to SureForm 45. Testing performed with gray and white reloads on in vivo porcine vessels. 8 mm SureForm 30 demonstrated equivalent hemostasis performance to SureForm 45 at $p < 0.05$. Data on file as of April 2021.

† Compared to Echelon Powered Vascular Stapler and Signia Small Diameter Reloads. Testing performed with white reloads on in vivo porcine vessels. 8 mm SureForm 30 demonstrated significantly better hemostasis than Echelon PVS and Signia Small Diameter Reloads at $p < 0.05$. Data on file as of March 2022.

SureForm specifications

Stapler

- 8 mm SureForm 30: 32 mm staple line/30 mm cut line
- SureForm 45: 45 mm staple line/ 40 mm cut line
- SureForm 60: 60 mm staple line/ 55 mm cut line
- An anvil-centric design
- SureForm 45 and SureForm 60 operate through a 12 mm cannula
- 8 mm SureForm 30 operates through an 8 mm cannula
- 12 fires per device
- Single patient use

SureForm 60 reload

White, blue, green, black reloads

Six rows of staples

New knife with every reload



SureForm 45 reload

Gray, white, blue, green, black reloads

Six rows of staples

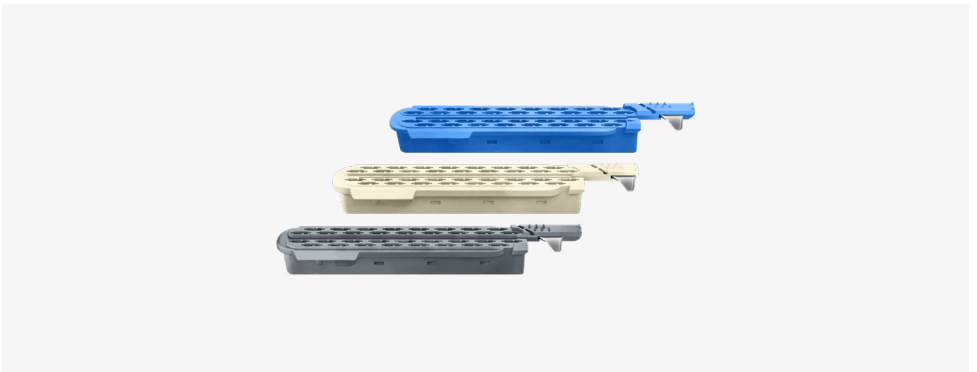
New knife with every reload



8 mm SureForm 30 reload

Gray, white, blue reloads

Four rows of staples



Purchasing information

Instruments

		Part Number
	**SureForm 60** 6 units per box da Vinci X and da Vinci Xi	**480460**
	**SureForm 45** 6 units per box da Vinci X and da Vinci Xi	**480445**
	**SureForm 45 Curved-Tip** 6 units per box da Vinci X and da Vinci Xi	**480545**
	**8 mm SureForm 30 Curved-Tip** 6 units per box da Vinci X and da Vinci Xi	**488530**

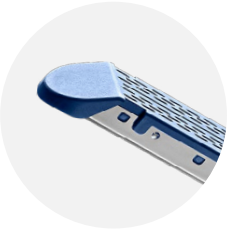
Purchasing information

Reloads

		Part Number
	**SureForm 60 White Reloads** 12 units per box	**48360W**
	**SureForm 60 Blue Reloads** 12 units per box	**48360B**
	**SureForm 60 Green Reloads** 12 units per box	**48360G**
	**SureForm 60 Black Reloads** 12 units per box	**48360T**

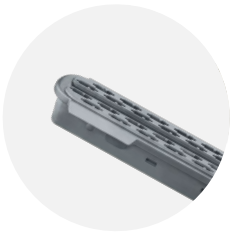
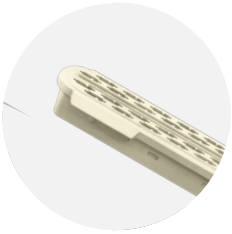
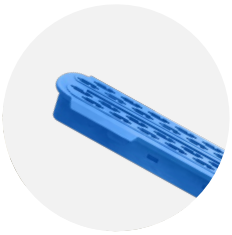
Purchasing information

Reloads

		Part Number
	**SureForm 45 Gray Reloads** 12 units per box	**48345M**
	**SureForm 45 White Reloads** 12 units per box	**48345W**
	**SureForm 45 Blue Reloads** 12 units per box	**48345B**
	**SureForm 45 Green Reloads** 12 units per box	**48345G**
	**SureForm 45 Black Reloads** 12 units per box	**48345T**

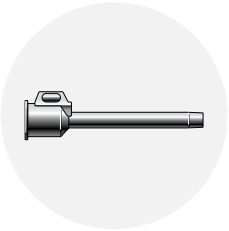
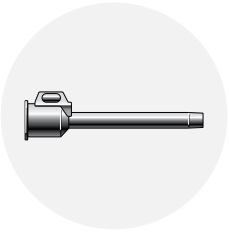
Purchasing information

Reloads

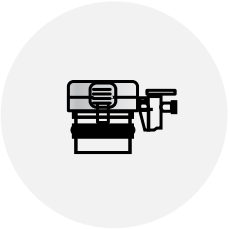
		Part Number
	**8 mm SureForm 30 Curved-Tip Gray Reloads** 12 units per box	**48230M**
	**8 mm SureForm 30 Curved-Tip White Reloads** 12 units per box	**48230W**
	**8 mm SureForm 30 Curved-Tip Blue Reloads** 12 units per box	**48230B**

Purchasing information

Cannulas

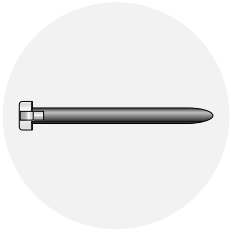
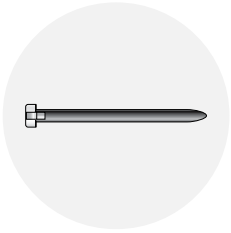
		Part Number
	**12 mm & Stapler Cannula (100 mm)** 1 unit per box (reusable)	**470375**
	**12 mm & Stapler Cannula (150 mm)** 1 unit per box (reusable)	**470389**

Disposables

		Part Number
	**12 mm & Stapler Canula Seal** 10 units per box	**470380**
	**12-8 mm Reducer** 6 units per box	**470381**

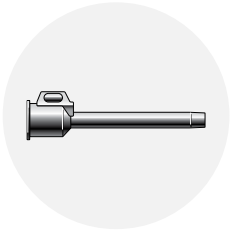
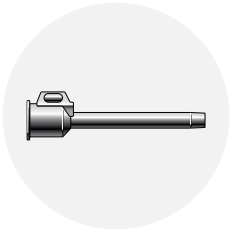
Purchasing information

Obturators

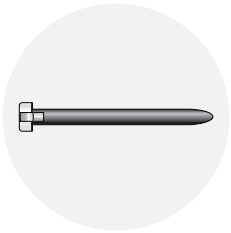
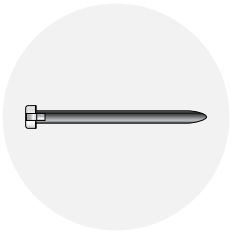
		Part Number
	**12 mm & Stapler Blunt Obturator** 1 unit per box (reusable)	**470376**
	**12 mm & Stapler Blunt Obturator, Long** 1 unit per box (reusable)	**470390**
	**12 mm & Stapler Bladeless Obturator** 1 unit per box (reusable)	**470395**
	**12 mm & Stapler Bladeless Obturator, Long** 1 unit per box (reusable)	**470396**

Purchasing information

Cannulas

		Part Number
	**8 mm Cannula, Standard** 1 unit per box (reusable)	**470002**
	**8 mm Cannula, Long** 1 unit per box (reusable)	**470004**

Obturators

		Part Number
	**8 mm Blunt Obturator** 1 unit per box (reusable)	**470008**
	**8 mm Blunt Obturator, Long** 1 unit per box (reusable)	**470009**

8 mm SureForm 30 stapler accessories

Purchasing information

Disposables

	Part Number
12-8 mm Reducer 6 units per box	**470381***
8 mm Bladeless Obturator (Optical) 6 units per box	**470359**
8 mm Bladeless Obturator, Long (Optical) 6 units per box	**470360**
5–8 mm Cannula Seal 10 units per box	**470361**
Universal Cannula Seal (5–12 mm) 10 units per box	**470500**

To contact a representative or receive additional information:

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Rest of the world
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* Version 12 or higher.

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 $p<0.05$.

Important Safety Information
Serious complications may occur in any surgery, including da Vinci surgery, up to and including death. Serious risks include, but are not limited to, injury to tissues and organs and conversion to other surgical techniques which could result in a longer operative time and/or increased complications. For summary of the risks associated with surgery refer to www.intuitive.com/safety.

For product intended use and/or indications for use, risks, cautions, and warnings and full prescribing information, refer to the associated user manual(s) or visit https://manuals.intuitivesurgic al.com/market.

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

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