

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.<sup>1</sup>

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<sup>1</sup> allows you the freedom to approach tissue where it naturally lies, delivering greater maneuverability around target tissue and potentially reducing tissue tension.<sup>2</sup>

When you choose SureForm staplers, you can potentially reduce uncertainty and increase stapling performance.<sup>1</sup>

1. Results from internal testing on file.

2. 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.



# Complete surgeon control

All SureForm staplers are seamlessly integrated with our da Vinci X and Xi 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.

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## SureForm 60



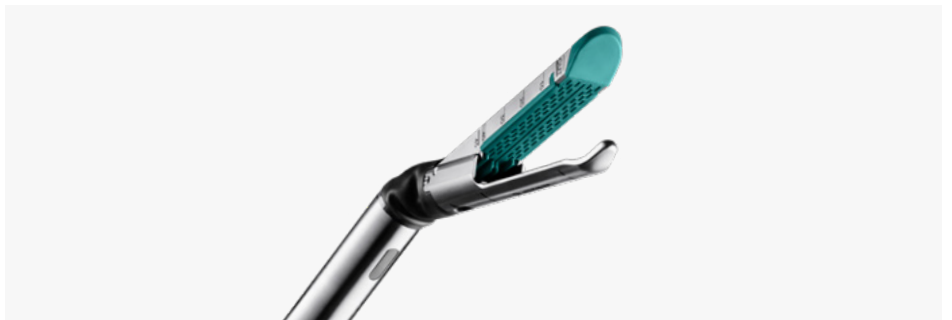
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## SureForm 45



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## SureForm 45 Curved-Tip



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## 8 mm SureForm 30 Curved-Tip



# Greater range of motion<sup>2</sup>

A 120° cone of articulation<sup>2</sup> gives you the freedom to maneuver your stapler and position it where you prefer.

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**01**  
60° Down

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**02**  
60° Left

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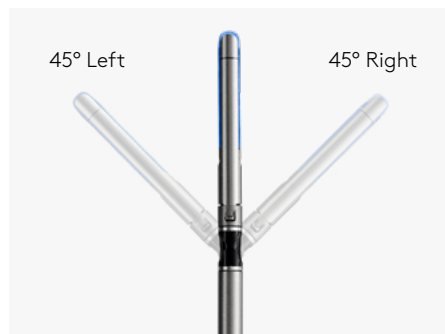
**03**  
60° Right

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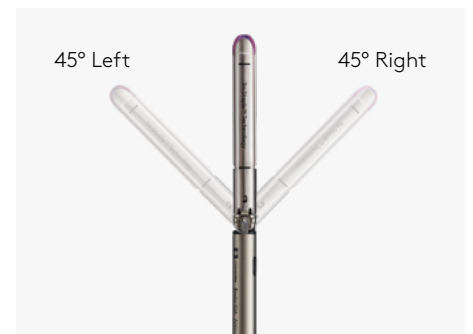
**04**  
60° Up



Utilize a greater range of motion than the human hand or leading laparoscopic staplers with SureForm staplers.<sup>2</sup>



Powered Echelon Flex



Signia / Endo GIA Ultra

1. Results from internal testing on file.

2. 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.

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# 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<sup>1</sup> to make automatic adjustments to the firing process as staples are being formed and as the transection is being made.

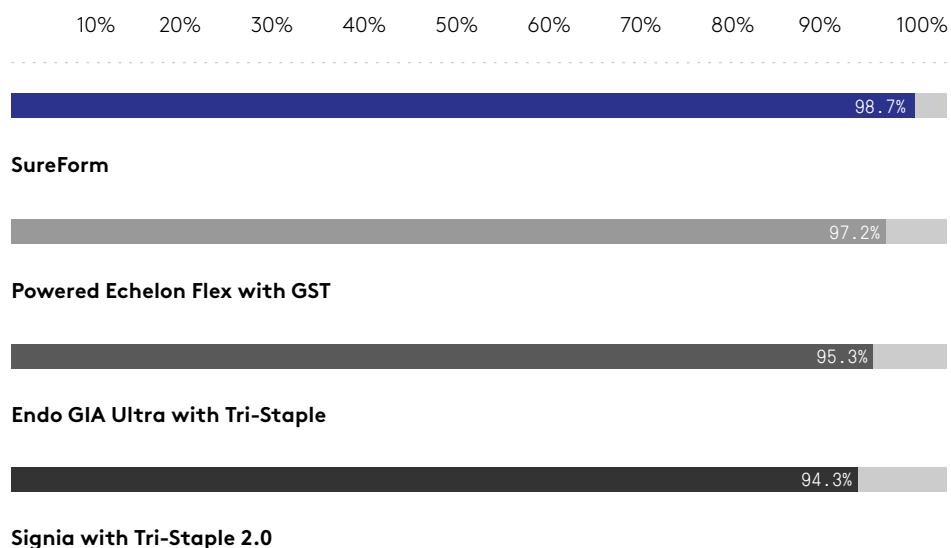
This advanced firing technology is easy to use and helps ensure a more consistent staple line, all while preventing damage across a range of tissue thicknesses.<sup>2</sup>



1. Results from internal testing on file.
2. 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<sup>1</sup>

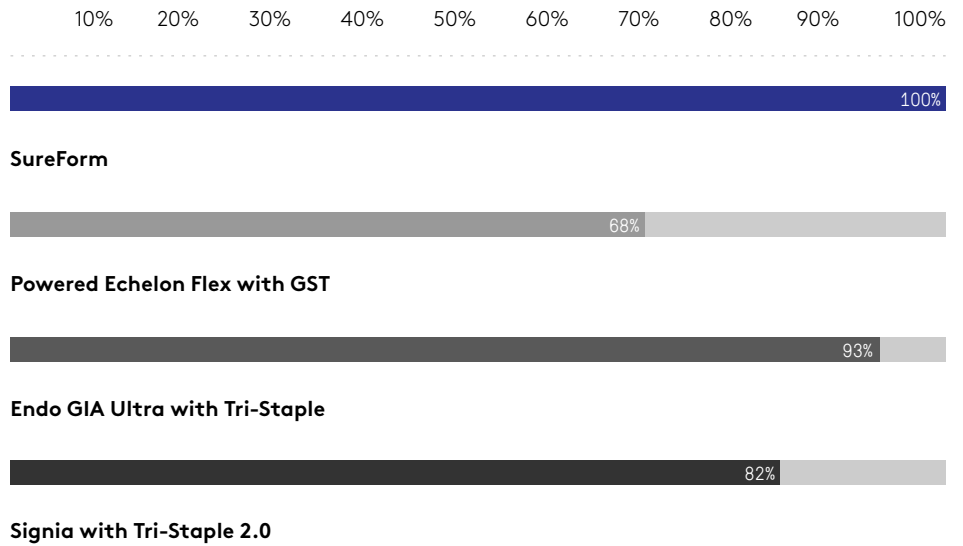
## Percentage of optimally formed staples in thick tissue (>4 mm)<sup>1</sup>



1. 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<sup>1</sup>

## Successful tissue approximation rate<sup>1</sup>



1. 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<sup>1</sup>

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.<sup>1</sup>

Figure A: Average cutline length (60 mm staplers)

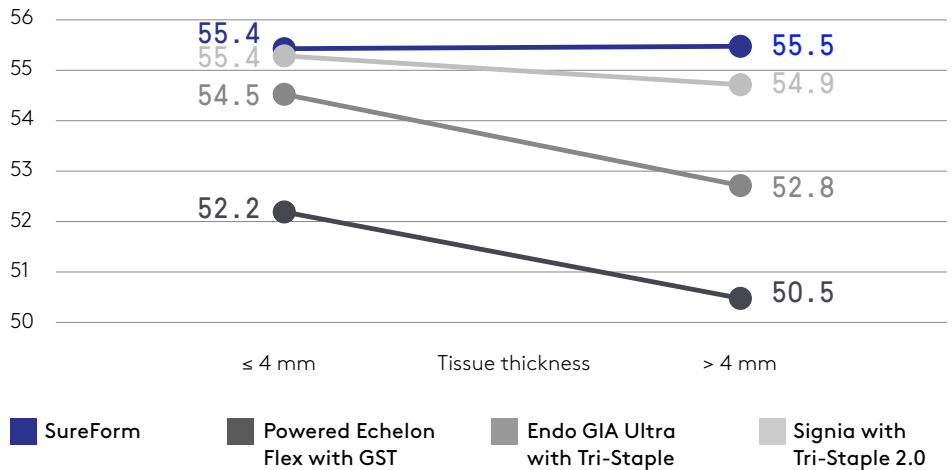
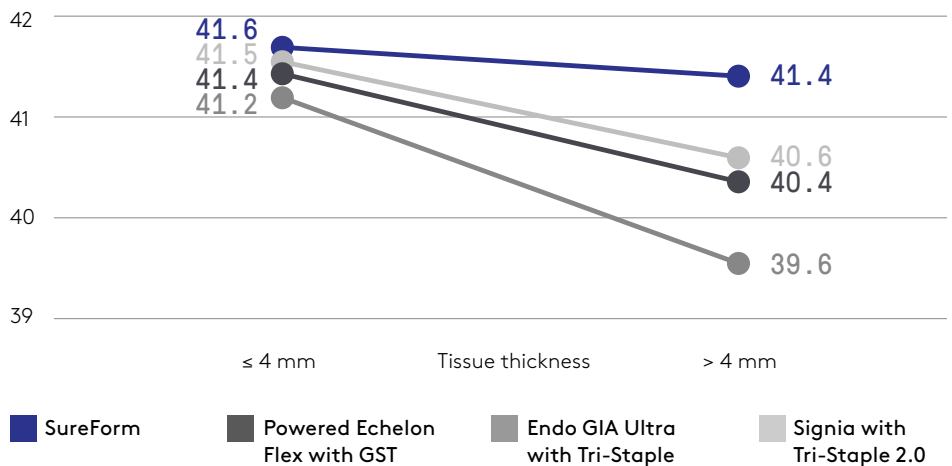


Figure B: Average cutline length (45 mm staplers)



1. 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.

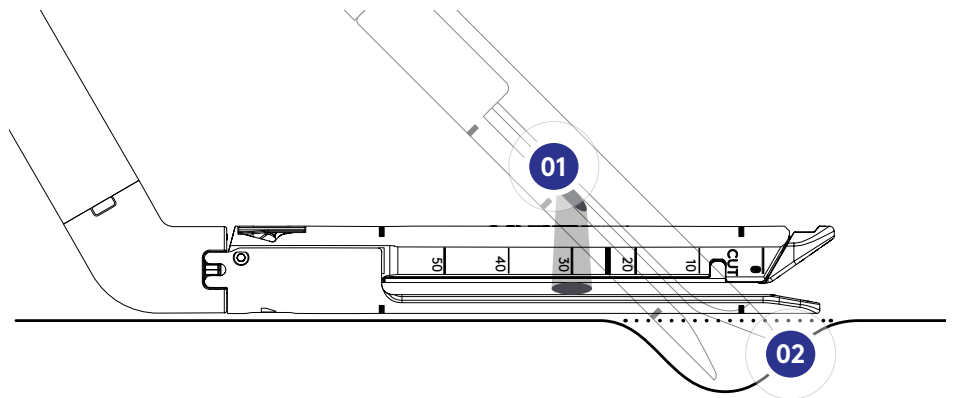
# Less tension

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.

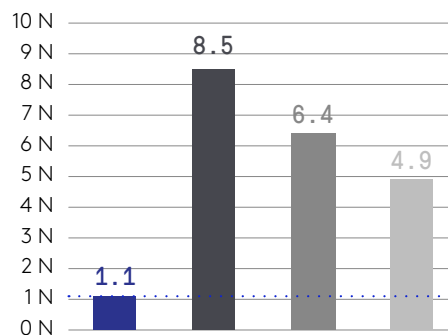
## Less tension on target tissue and less stress on surrounding tissue during positioning and clamping<sup>1</sup>

**01**  
Tension on target tissue.

**02**  
Stress on surrounding tissue.

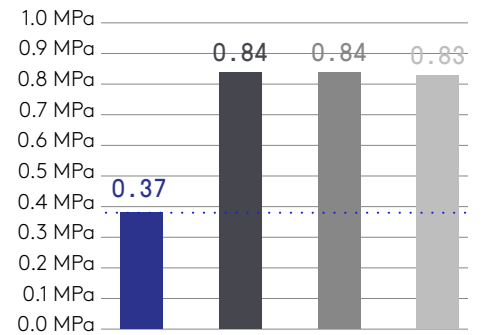


### Average tension applied to target tissue while positioning and clamping stapler



Measured in newtons as a unit of force

### Average stress applied to surrounding tissue while positioning and clamping stapler

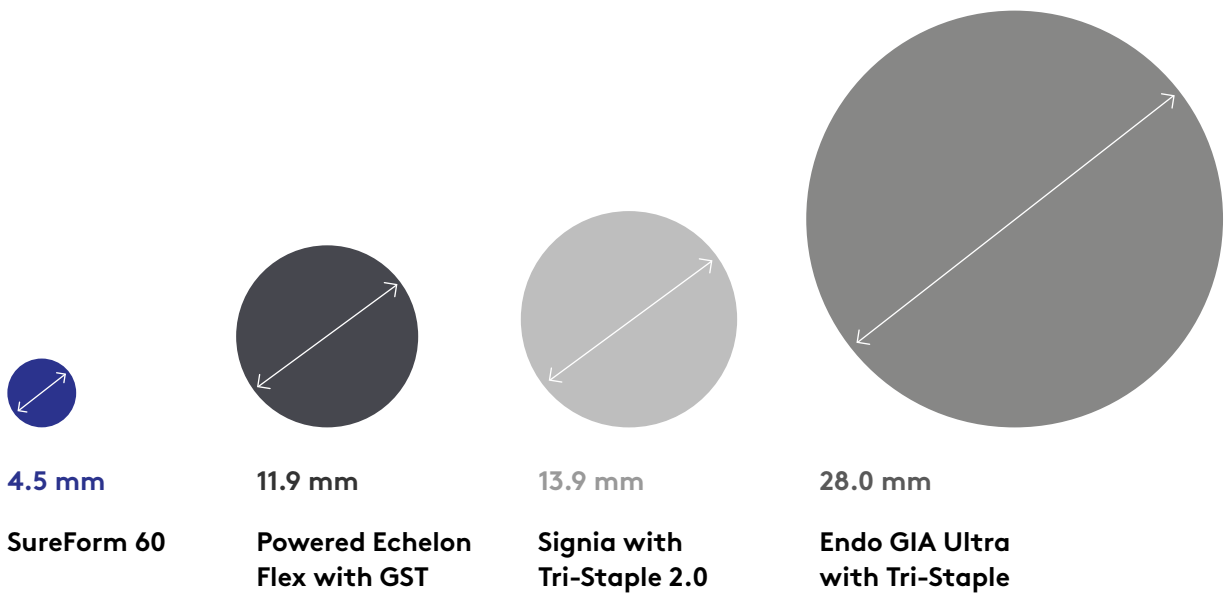


Measured in megapascals as a unit of stress

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

1. 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<sup>1</sup>



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.

1. 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.



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# 8 mm SureForm 30 Curved-Tip

Small stapler. Big impact.

Experience the performance of a SureForm stapler, now on a smaller scale.<sup>1</sup>



1. Compared to 12 mm SureForm staplers.

# More maneuverability<sup>1</sup>

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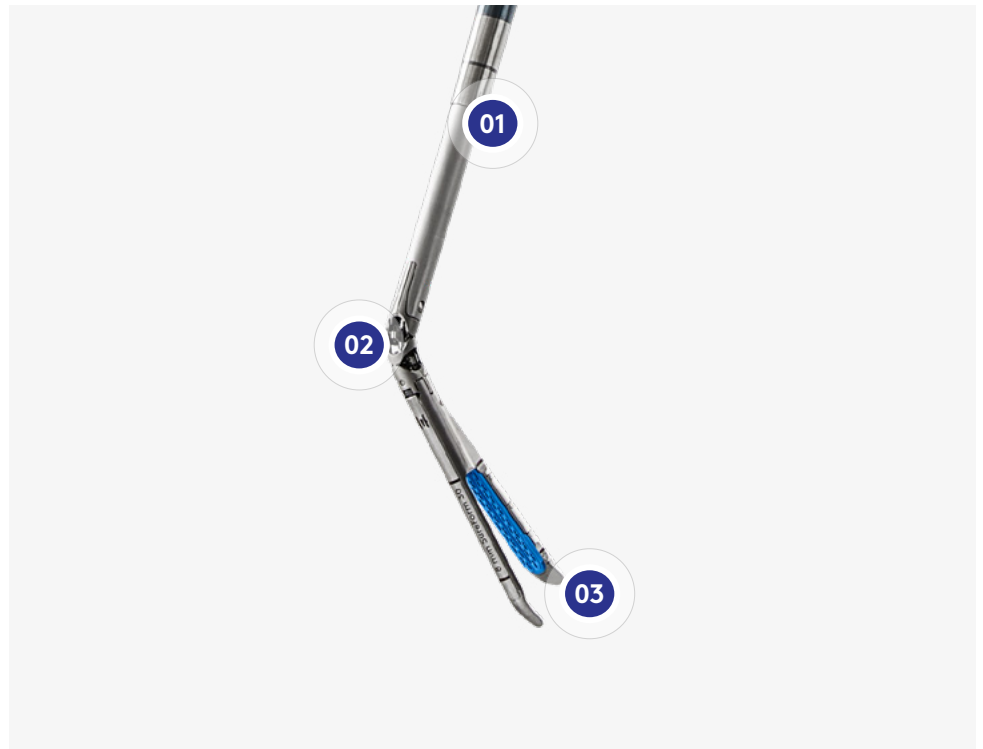
**01**  
Fits through 8 mm cannula

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**02**  
120° articulation

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**03**  
Narrower curved-tip anvil<sup>1</sup>



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<sup>1</sup>, curved-tip anvil, this stapler arms you with a greater range of motion<sup>2</sup> in tight spaces and the flexibility to position and maneuver it as needed.

1. Compared to 12 mm SureForm staplers.

2. Compared to Echelon Powered Vascular Stapler and Signia Small Diameter Reloads.

# More precision

A narrower anvil fits through smaller dissection windows<sup>1</sup> allowing for easy access around vessels and the 120° of articulation helps you precisely position the stapler with less tissue tension.<sup>2</sup>

**Less tension on target tissue and less stress on surrounding tissue during positioning, clamping, and firing.<sup>3</sup>**

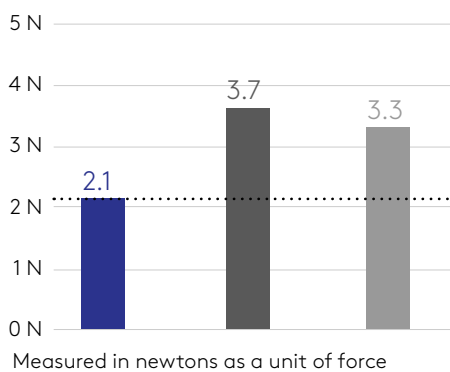
## 36%

Less tension on target tissues<sup>2</sup> with 8 mm SureForm 30

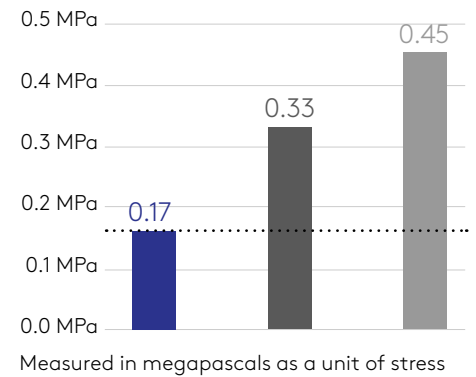
## 48%

Less stress on surrounding tissues<sup>2</sup> with 8 mm SureForm 30

**Average tension applied to target tissue<sup>1</sup>**



**Average stress applied to surrounding tissue<sup>1</sup>**



■ 8 mm SureForm 30

■ Echelon Powered Vascular Stapler

■ Signia Small Diameter Reloads

1. Compared to 12 mm SureForm staplers.
2. Compared to Ethicon Echelon Powered Vascular Stapler and Signia Small Diameter Reloads.
3. 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<sup>1</sup>



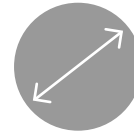
1.4 mm

**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.

1. 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. the three staplers in thick tissue. Data on file as of March 2019.



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# Secure hemostasis

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## Substantially equivalent hemostasis<sup>1</sup>

8 mm SureForm 30 (2 row) has been tested with grey and white reloads on in vivo porcine vessels and pedicles, and demonstrated comparable hemostasis to SureForm 45 (3 row).<sup>1</sup>

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## Significantly better hemostasis<sup>2</sup>

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.<sup>2</sup>

1. 8 mm SureForm 30 demonstrated non-inferior hemostasis performance to SureForm 45 with a non-inferiority margin of 15%. Data on file as of April 2021.
2. 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

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## SureForm 60

White, blue, green, black reloads

Six rows of staples

New knife with every reload

60 mm staple line/55 mm cut line

Operate through a 12 mm cannula

12 fires per device

Single patient use



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## SureForm 45

Grey, white, blue, green, black reloads

Six rows of staples

New knife with every reload

45 mm staple line/40 mm cut line

Operate through a 12 mm cannula

12 fires per device

Single patient use



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## 8 mm SureForm 30

Grey, white, blue reloads

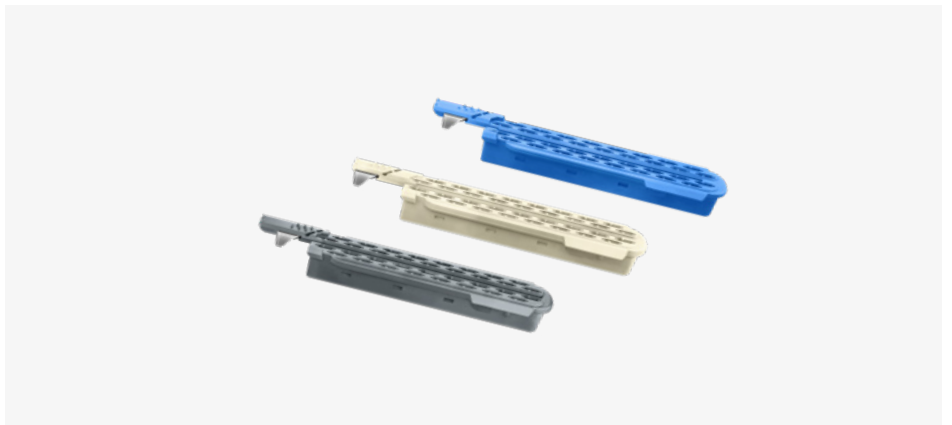
Four rows of staples

32 mm staple line/30 mm cut line

Operate through a 8 mm cannula

12 fires per device





Single patient use



## SureForm staplers





# Ordering information

## Instruments for da Vinci X & Xi surgical systems

	Product description	Qty/ box	Uses	Part number
	SureForm 60 stapler	6	Single	<b>480460</b>
	SureForm 45 stapler	6	Single	<b>480445</b>
	SureForm 45 curved-tip stapler	6	Single	<b>480545</b>
	8 mm SureForm 30 curved-tip stapler	6	Single	<b>488530</b>






# Ordering information

## Reloads for da Vinci X & Xi SureForm 60 staplers

	Product description	Qty/ box	Uses	Part number
	SureForm 60 white reload (2.5 mm, 6-row)	12	1 firing	<b>48360W</b>
	SureForm 60 blue reload (3.5 mm, 6-row)	12	1 firing	<b>48360B</b>
	SureForm 60 green reload (4.3 mm, 6-row)	12	1 firing	<b>48360G</b>
	SureForm 60 black reload (4.6 mm, 6-row)	12	1 firing	<b>48360T</b>

# Ordering information

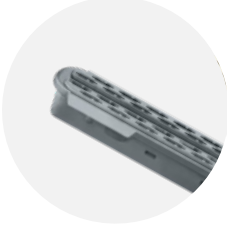

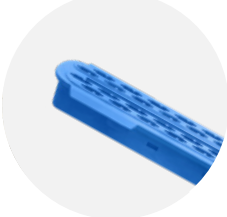
## Reloads for da Vinci X & Xi SureForm 45 staplers

	Product description	Qty/ box	Uses	Part number
	SureForm 45 grey reload (2.0 mm, 6-row)	12	1 firing	<b>48345M</b>
	SureForm 45 white reload (2.5 mm, 6-row)	12	1 firing	<b>48345W</b>
	SureForm 45 blue reload (3.5 mm, 6-row)	12	1 firing	<b>48345B</b>
	SureForm 45 green reload (4.3 mm, 6-row)	12	1 firing	<b>48345G</b>
	SureForm 45 black reload (4.6 mm, 6-row)	12	1 firing	<b>48345T</b>

## 8 mm SureForm 30

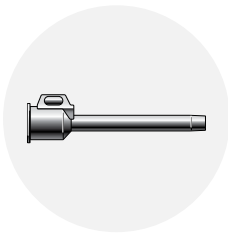
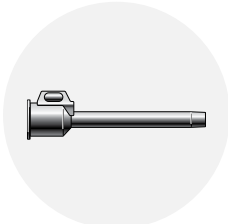
### Ordering information

## Reloads for da Vinci X & Xi SureForm 30 stapler

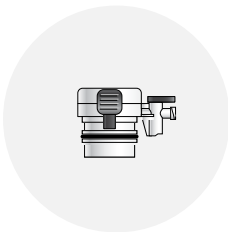

	Product description	Qty/ box	Uses	Part number
	8 mm SureForm 30 curved-tip stapler grey reload (2.0 mm, 4-row)	12	1 firing	<b>48230M</b>
	8 mm SureForm 30 curved-tip stapler white reload (2.5 mm, 4-row)	12	1 firing	<b>48230W</b>
	8 mm SureForm 30 curved-tip stapler blue reload (3.5 mm, 4-row)	12	1 firing	<b>48230B</b>

## Ordering information

### Cannulas for da Vinci X & Xi SureForm 60 and 45 staplers

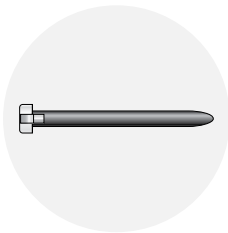
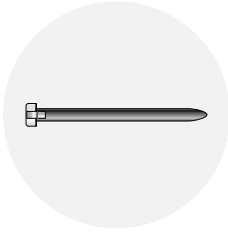


	Product description	Qty/ box	Uses	Part number
	12 mm and stapler cannula (100 mm)	1	NA	<b>470375</b>
	12 mm and stapler cannula, long (150 mm)	1	NA	<b>470389</b>

### Disposables for da Vinci X & Xi SureForm 60 and 45 staplers

	Product description	Qty/ box	Uses	Part number
	12 mm and stapler cannula seal	10	1 procedure	<b>470380</b>
	12-8 mm reducer	6	1 procedure	<b>470381</b>

## Ordering information

### Obturator for da Vinci X & Xi SureForm 60 and 45 staplers

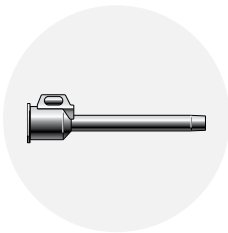
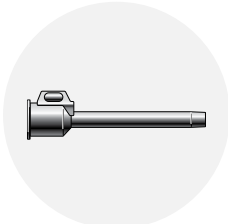
	Product description	Qty/ box	Uses	Part number
	12 mm and stapler blunt obturator	1	NA	<b>470376</b>
	12 mm and stapler blunt obturator, long	1	NA	<b>470390</b>
	12 mm and stapler bladeless obturator	1	NA	<b>470395</b>
	12 mm and stapler bladeless obturator, long	1	NA	<b>470396</b>



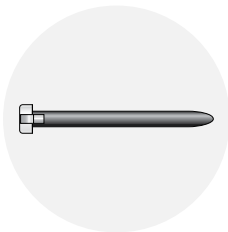
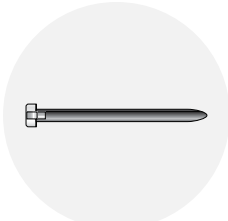
## 8 mm SureForm 30 stapler accessories

### Ordering information

#### Cannulas for da Vinci X & Xi SureForm 30 stapler

	Product description	Qty/ box	Uses	Part number
	8 mm cannula (100 mm)	1	NA	<b>470002</b>
	8 mm cannula, long (150 mm)	1	NA	<b>470004</b>




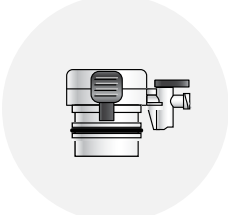
#### Obturator for da Vinci X & Xi SureForm 30 stapler

	Product description	Qty/ box	Uses	Part number
	8 mm blunt obturator	1	NA	<b>470008</b>
	8 mm blunt obturator, long	1	NA	<b>470009</b>

## 8 mm SureForm 30 stapler accessories

### Ordering information

#### Disposables for da Vinci X & Xi SureForm 30 stapler

	Product description	Qty/ box	Uses	Part number
	12-8 mm reducer	6	1 procedure	<b>470381<sup>1</sup></b>
	8 mm bladeless obturator (optical)	6	1 procedure	<b>470359</b>
	8 mm bladeless obturator, long (optical)	6	1 procedure	<b>470360</b>
	5-8 mm cannula seal	10	1 procedure	<b>470361</b>

1. Version 12 or higher.

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

[www.intuitive.com](http://www.intuitive.com)

**To contact a representative or receive  
additional information:**

Visit [www.intuitive.com](http://www.intuitive.com) or  
call Intuitive Customer Service:  
+41.21.821.2020 or  
+800.0821.2020 (toll free)

**European Regional Offices**

**France**

Intuitive Surgical SAS  
Cité de la Photonique,  
bâtiment Gienah  
11 avenue de Canteranne  
33600 Pessac, FR  
Tel: +33 5 86 07 01 01  
N° de TVA : FR 64 417 889 177  
SIREN 417 889 177  
Capital Social 37000€  
RCS Bordeaux Code APE 4646Z

**United Kingdom**

Intuitive Surgical Ltd  
The Schrodinger Building  
Oxford Science Park  
Heatley Rd, Oxford, OX4 4GE, UK  
Tel: +44 (0) 1865 411561  
N° de TVA : GB943 2213 49  
N° d'immatriculation  
6727762

**European Headquarters  
(Switzerland)**

Intuitive Surgical Sàrl  
1, chemin des Mûriers  
1170 Aubonne, Suisse  
Tél. : +41 21 821 2000  
Fax : +41 21 821 2001  
N° de TVA : CHE-113.407.162 VAT

**Germany**

Intuitive Surgical Deutschland GmbH  
Guerickestraße 1  
79108 Freiburg, DE  
MWST #: DE200038727  
Amtsgericht Freiburg, HRB 720585  
Geschäftsführer:  
Dirk Barten, Tim Heisterkamp,  
Jamie Samath, Gary Loeb

**Da Vinci X & Xi 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 45 & 60 Staplers**

The SureForm 45 Stapler & SureForm 60 Stapler and SureForm 45 Stapler Reloads & SureForm 60 Stapler Reloads and other Stapler Accessories (including the bladeless obturators) are intended to be used with a compatible da Vinci 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 Stapler and SureForm 45 Stapler, SureForm 60 and SureForm 45 Stapler 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.

**8 mm SureForm 30 Stapler Curved-Tip**

The Intuitive Surgical 8 mm SureForm 30 Curved-Tip Stapler and 8 mm SureForm 30 Reloads and accessories are intended to be used with a compatible da Vinci Surgical System for resection, transection of vasculature and tissue, and/or creation of anastomoses in General, Thoracic, Gynecologic, Urologic, and Pediatric Surgery.

The Intuitive Surgical 8 mm SureForm 30 Curved-Tip Stapler and 8 mm SureForm 30 Reloads and accessories are class IIa and IIb medical devices CE marked (CE 2460) under the European Medical Devices Regulation (EU 2017/745), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

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

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