

ENDO GIA™ ULTRA UNIVERSAL STAPLERS

Medtronic
Further, Together
Medtronic

PRODUCT OVERVIEW



PRODUCT OVERVIEW

ONE HANDED GRASPING MECHANISM



- Grasps & releases tissue by pushing the loop handle forward and backward
- May reduce time by requiring fewer changes of instruments during procedure

PRODUCT OVERVIEW

ENHANCED ARTICULATION



- Provides intuitive, precise access to surgical sites and flexibility to approach target tissue/vessel through 10 positions of articulation (5 on each side)
- Articulates up to 45 degrees on each side
- Articulation knob and reload move in same direction

PRODUCT OVERVIEW

FORWARD / BACKWARD COMPATIBILITY



- Endo GIA™ Ultra Universal Stapler can be used with all Endo GIA™ Reloads with Tri-Staple™ Technology, Endo GIA™ Universal Reloads as well as Duet TRS™ Reloads
- Simplifies inventory management during transition to new technology devices

PRODUCT OVERVIEW

SHORTER REACH



- Less distance between loop and stationary handles
- Facilitates use of stapler by surgeons with smaller hands

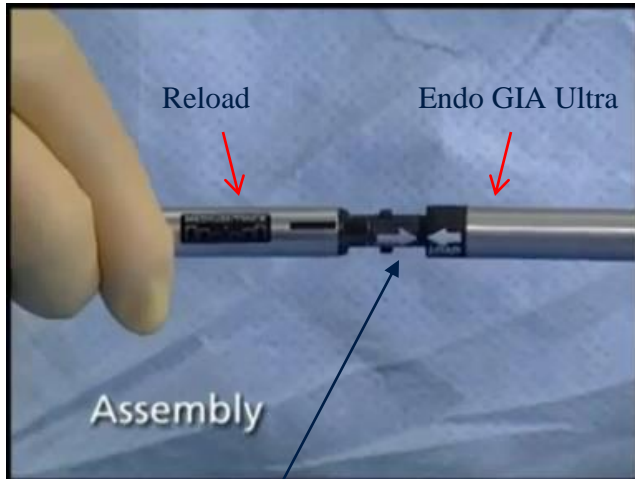
PRODUCT OVERVIEW

THREE SHAFT LENGTHS

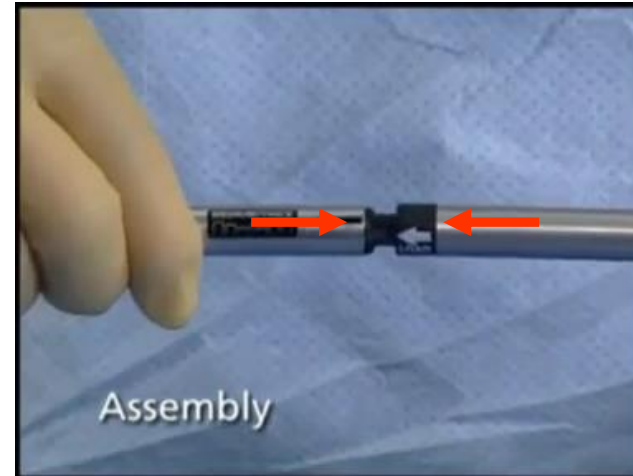


➤ Short (6 cm), Standard (16 cm) & XL (26 cm) offer greater versatility in procedure specific use

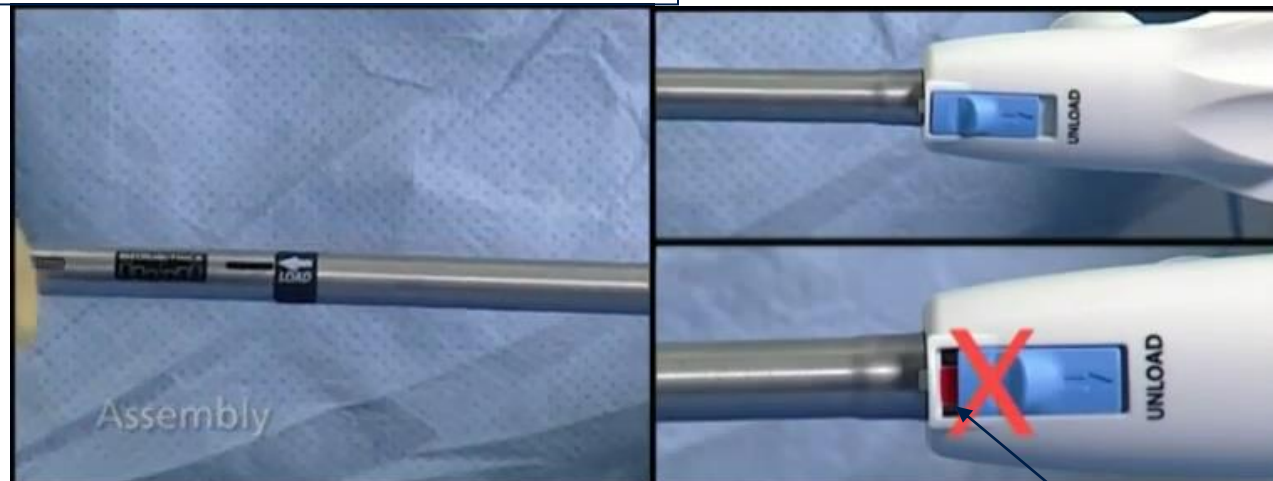
IN-SERVICE



1. Approximate the arrows between the reload and Endo GIA Ultra.

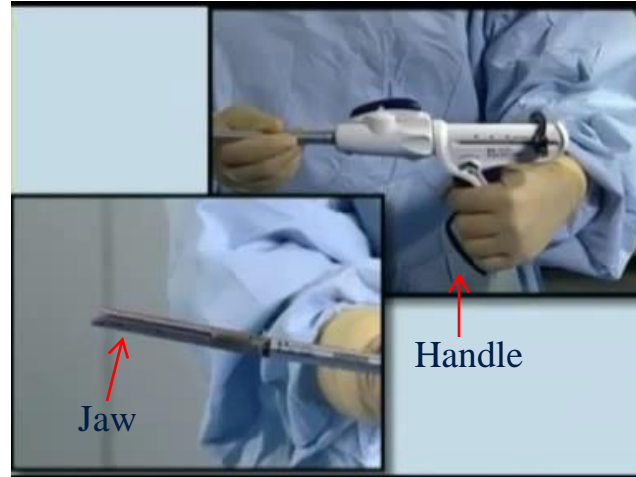


2. Push and twist the reload clockwise.

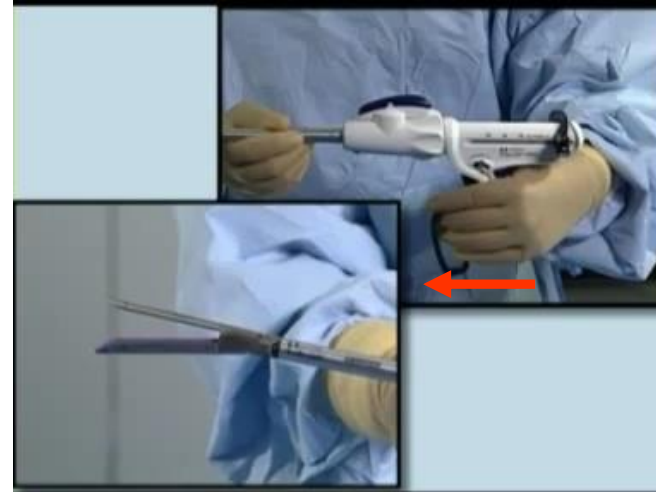


3. If reload is properly loaded you may not see the red indicator on Unload button.

IN-SERVICE



4. For the testing reload properly loaded, Squeeze the Handle to close the Jaw.

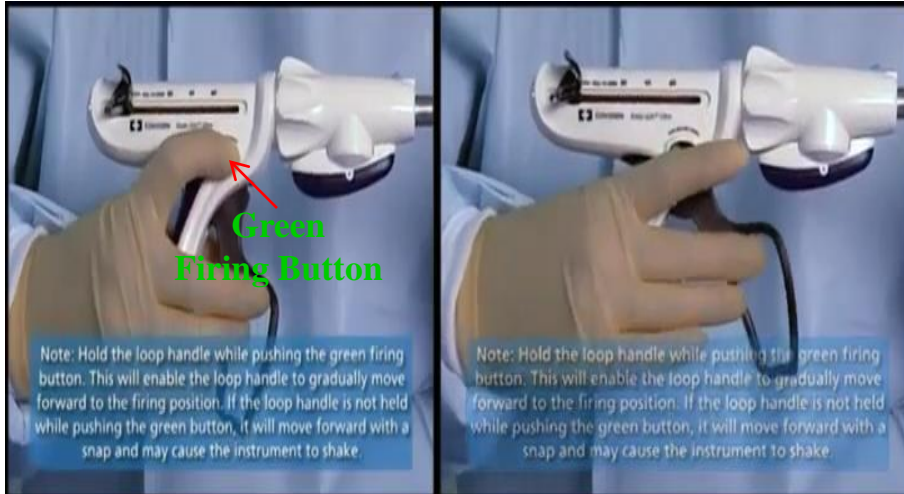


5. Make sure the jaw is fully opened by push the handle to the front side.

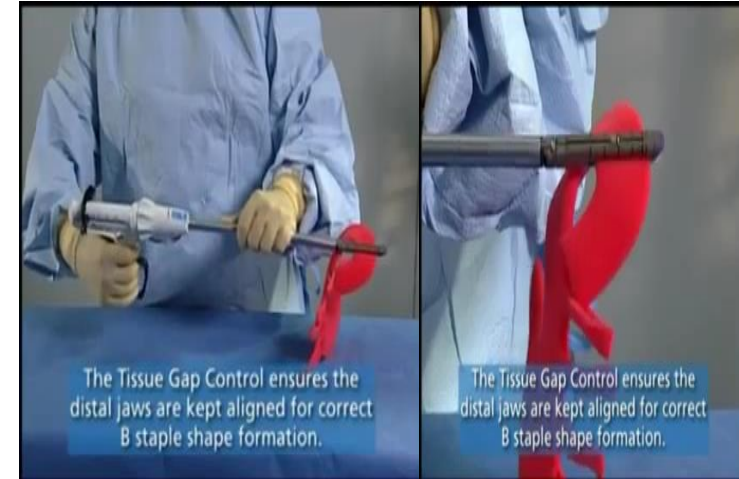


6. Articulation up to 45 degrees to both the left and right by Articulation Lever control.

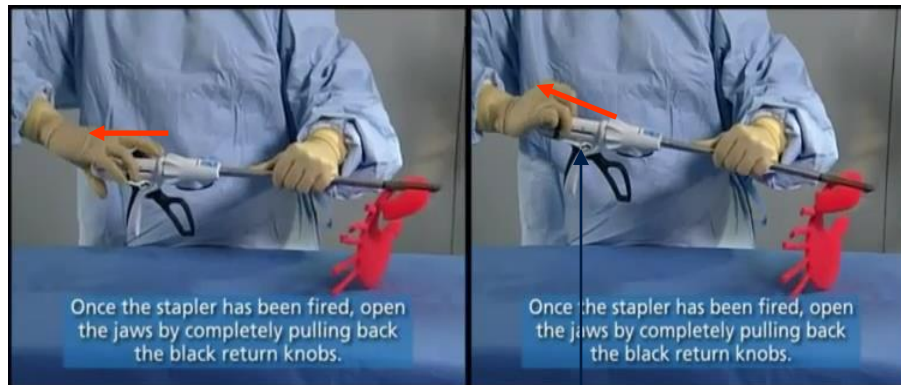
IN-SERVICE



7. To Fire the stapler, press the Green firing button. This will enable the loop handle to gradually move forward to the firing position.



8. Squeeze the handle for firing stapler.



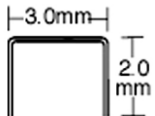
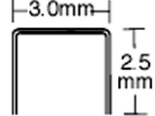






9. Once the stapler has been fired, open the jaws by completely pulling back the black return knobs.



10. Push down the Unload button and twist the reload counter clock wise to disengage the reload.





ENDO GIA™ RELOADS (LEGACY)

PRODUCT OVERVIEW

Color Code				
	Gray	White	Blue	Green
Wire Gauge	0.21mm	0.21mm	0.21mm	0.23mm
Staples Before Firing				
Staples After Firing				
Length of Stapling	30mm 45mm	30mm 45mm 60mm	30mm 45mm 60mm	45mm 60mm
Length to the Articulating Point	25mm	25mm	25mm	30mm
Shaft Diameter	12mm	12mm	12mm	15mm

PRODUCT OVERVIEW

You can load all types of cartridges to one instrument, which offers you reduction of inventory & cost.

EndoGIA	ETS
 <p data-bbox="598 935 1133 999">With one instrument, you can use 30mm, 45mm, 60mm, straight, rotulator cartridges.</p> 	 <p data-bbox="1312 949 1847 978">Instruments of 35mm and 45mm are different.</p> 

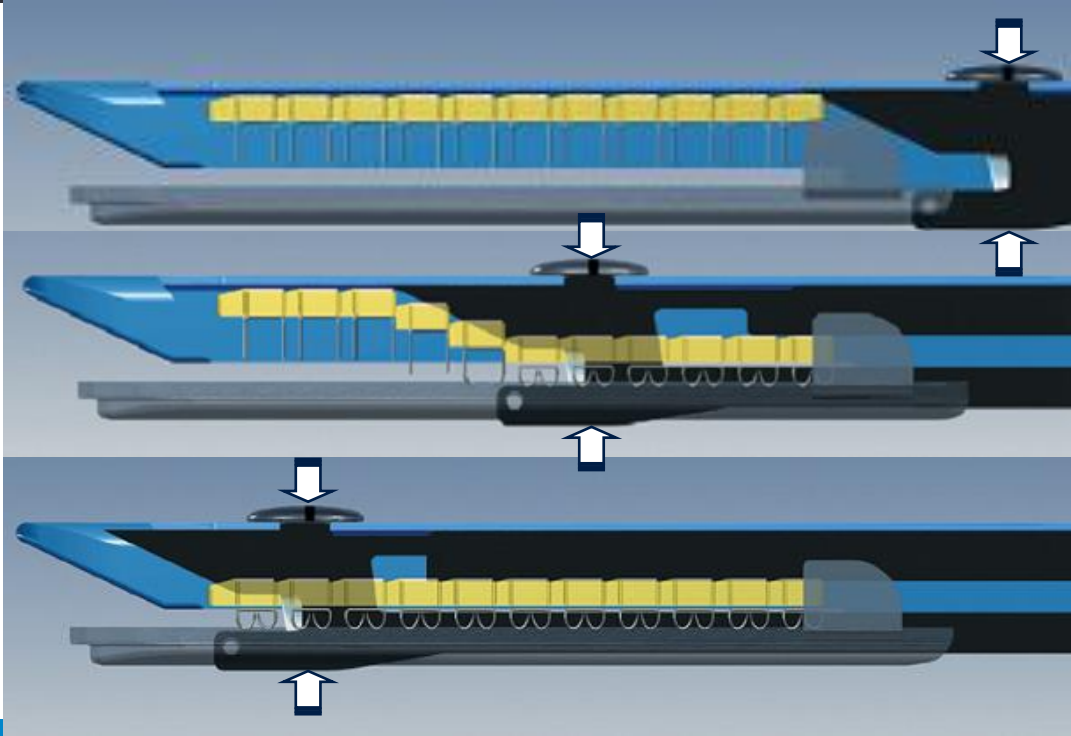
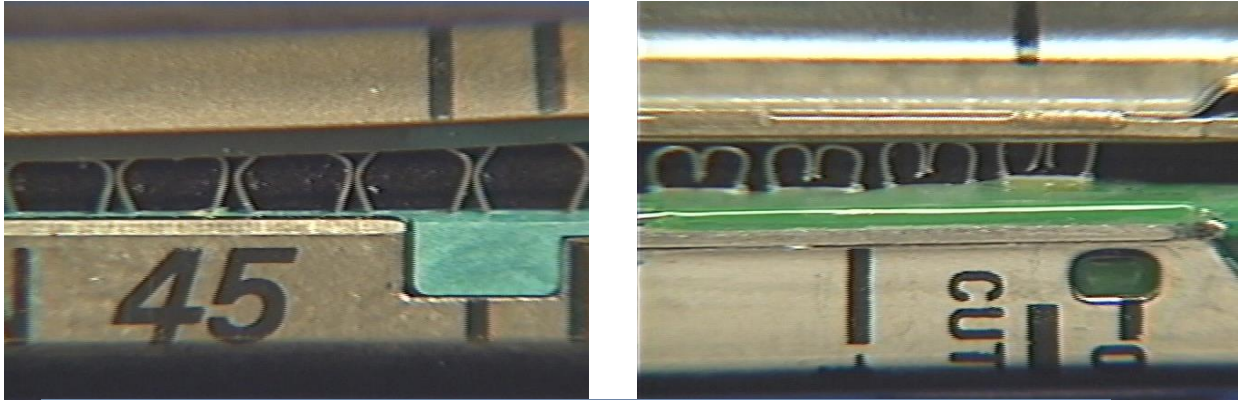
PRODUCT OVERVIEW

EndoGIA's knives and anvils are always fresh, which contributes to smooth cutting even for multiple use and reduction of contamination and infection.

	EndoGIA 4.8	ETS
Knife	 <p>Always fresh knife as a knife is integrated to a cartridge.</p>	 <p>As a knife is integrated to an instrument, even though a cartridge is exchanged, the same knife is used for multiple use.</p>
Anvil	 <p>Anvil is always fresh too.</p>	

PRODUCT OVERVIEW

Tissue Gap Control guarantee consistent staple formation from proximal to Distal end



**ENDO GIA™ RELOADS
WITH
TRI-STAPLE™
TECHNOLOGY**

Medtronic
Further, Together

ENDO GIA™ RELOADS WITH TRI-STAPLE™ TECHNOLOGY



Advanced Tissue
Compression

Tissue Gap Control

Robust Hemostatic
Stapling

Comprehensive Tissue
Management Solution

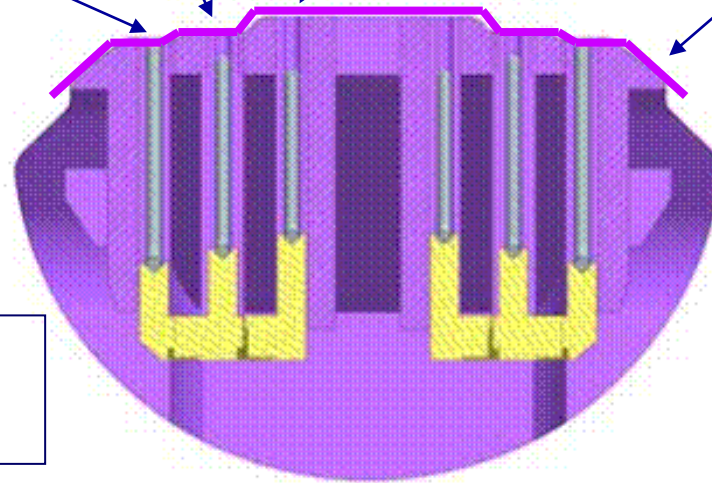
PRIMARY FEATURES & BENEFITS - RELOAD

1. New Anvil Design



Middle Row = 3.5mm
Inner Row = 3.0mm
Outer Row = 4.0mm

2. Stepped Cartridge Face



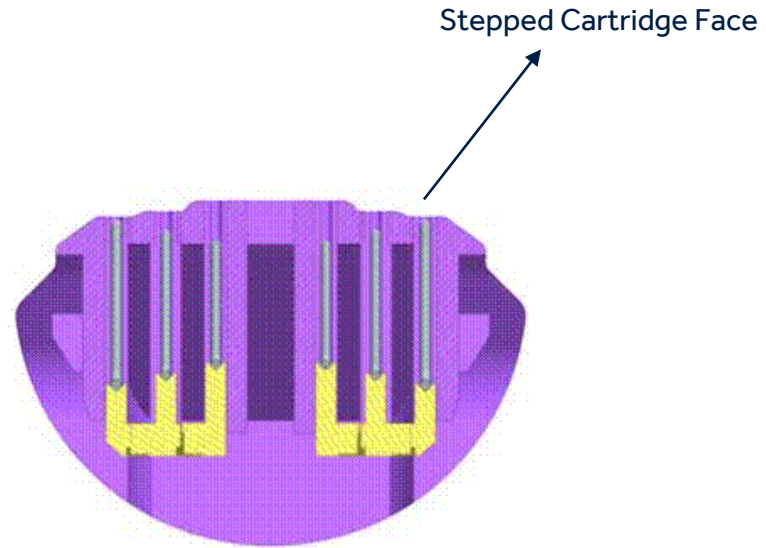
3. Varied Height Staples

STRONGER, STREAMLINED FIXED ANVIL



- Very strong – will not bend or bow in thick tissue; made of single piece of stainless steel, in contrast to our current reload that consists of 2 pieces stamped together
- Enhances compression; 2-3 times more compared to current Endo GIA™ Universal Reloads
- Improves maneuverability of stapler around target tissue
- Provides consistent B shaped staple formation (specifically at distal end, when firing in thicker tissue)
- Robust tissue stop to ensure good contact between cartridge and anvil

STEPPED CARTRIDGE FACE



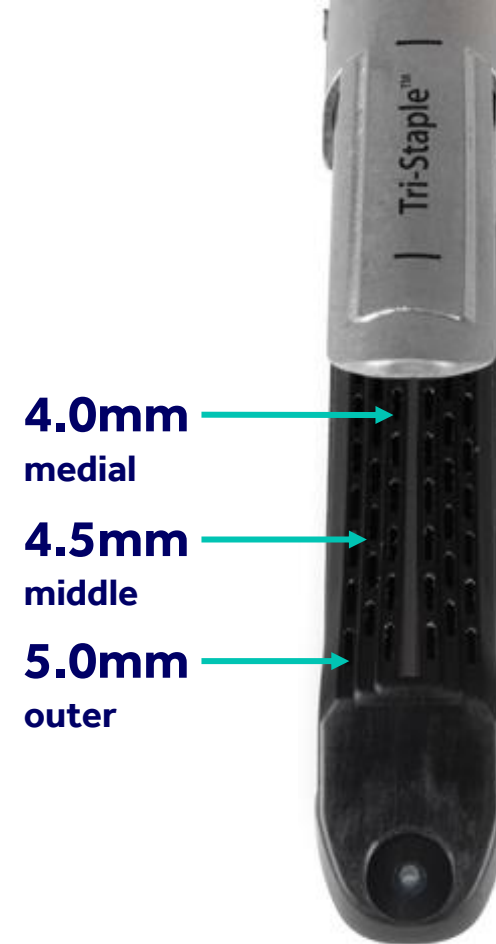
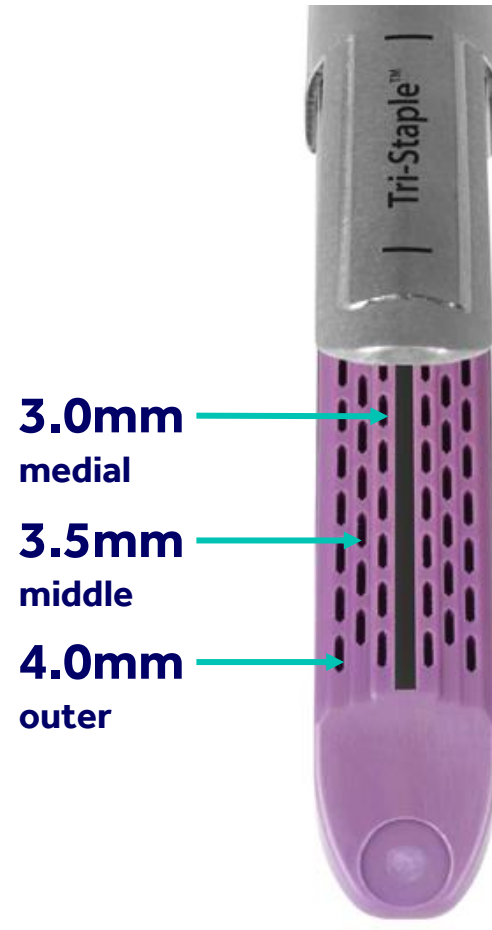
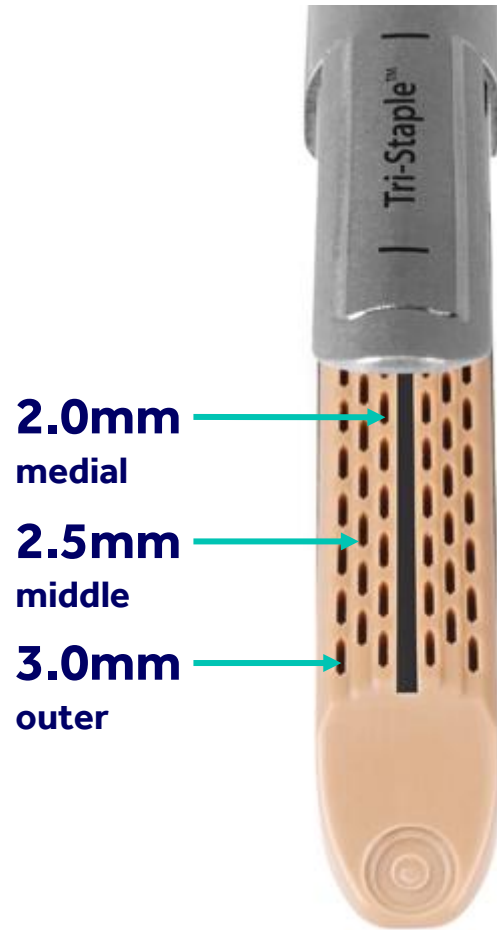
- Enables lateral diffusion of tissue fluids during clamping & firing (advanced tissue compression)
- Lateral diffusion of tissue fluids, together with higher compression, greatly reduces tissue extrusion at the distal end of the reload
- Requires less force to compress tissue to desired thickness

VARIED HEIGHT STAPLES

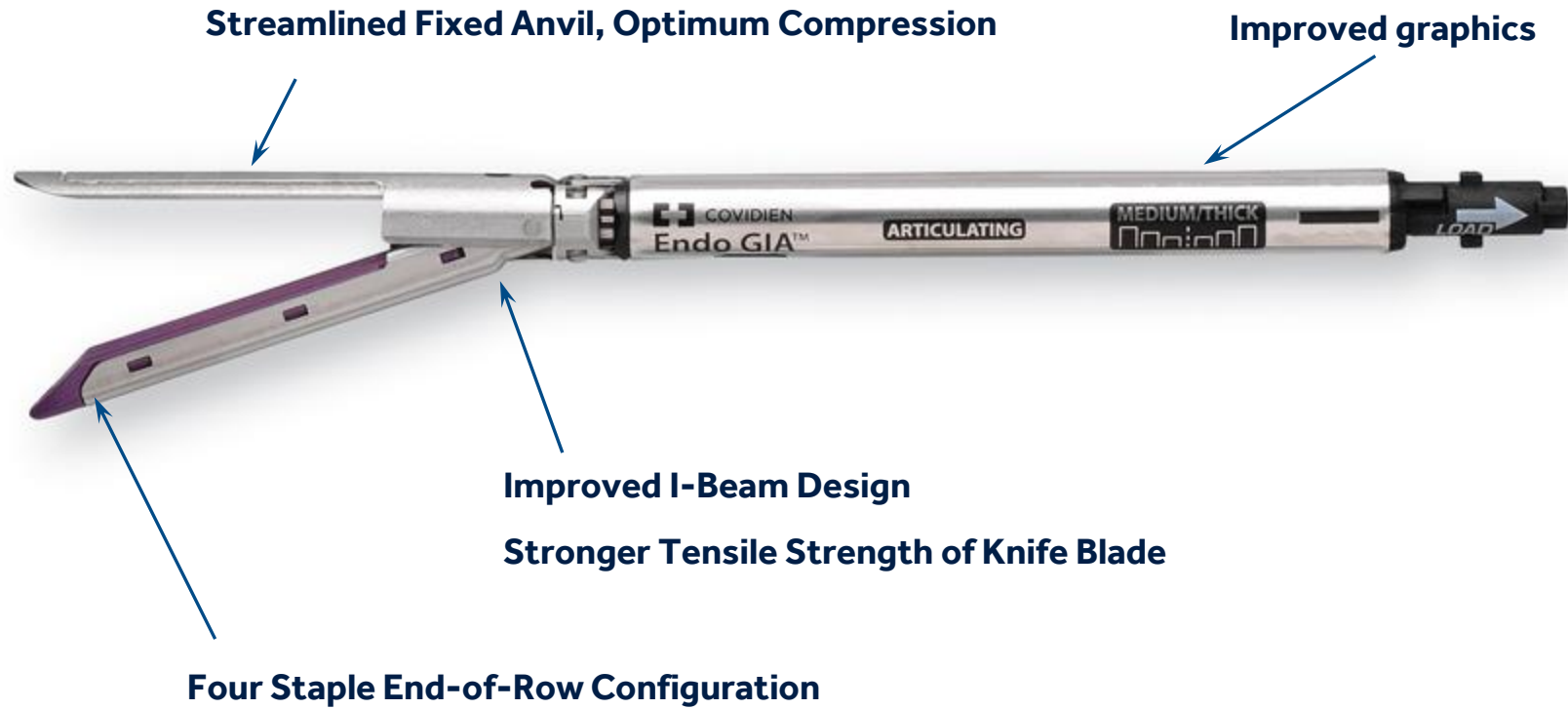


- Along with the stepped cartridge face, Facilitate use over a broader range of tissue thickness
- Improve burst pressure due to reduced tissue compression stress on outer staple row compared with Endo GIA™ Universal Reloads (as per results from bench testing)
- Provide tighter staple closure on inner staple row closest to the cut line; may improve hemostasis especially in thicker tissues
- Allow increased blood perfusion to the cut line which may enhance the healing process

3 Different Reloads



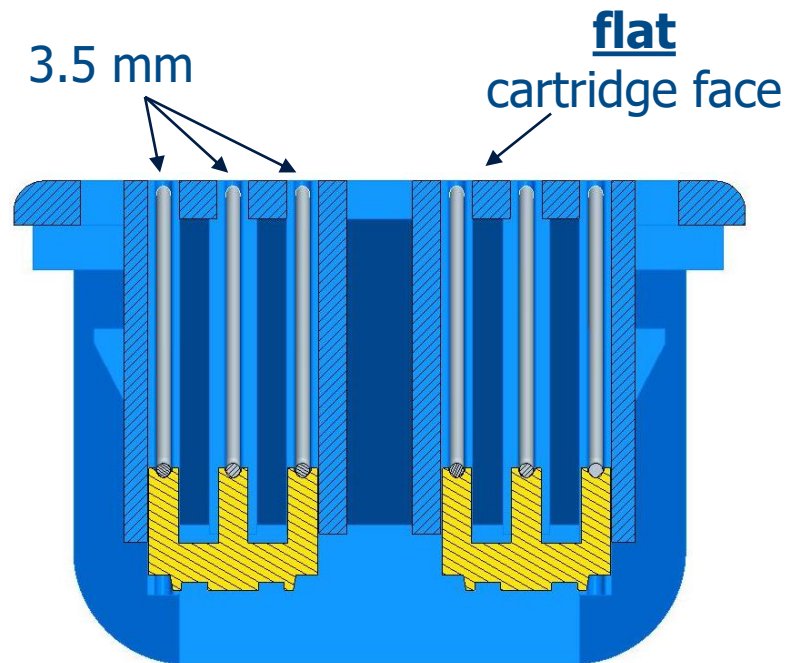
ENDO GIA™ RELOADS WITH TRI-STAPLE™ TECHNOLOGY



Tri-Staple™ Technology Design

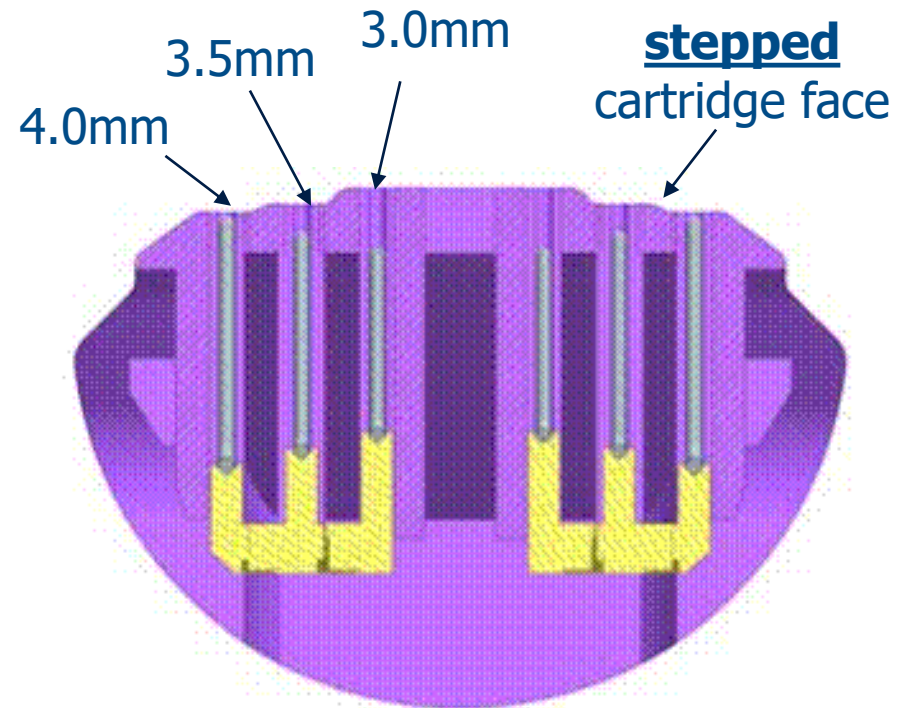
(Medium/Thick Cartridge)

3 rows on each side of cut line
uniform height staples



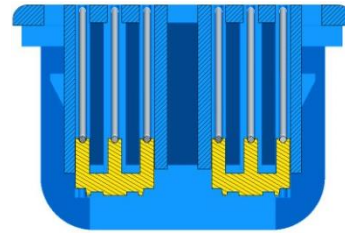
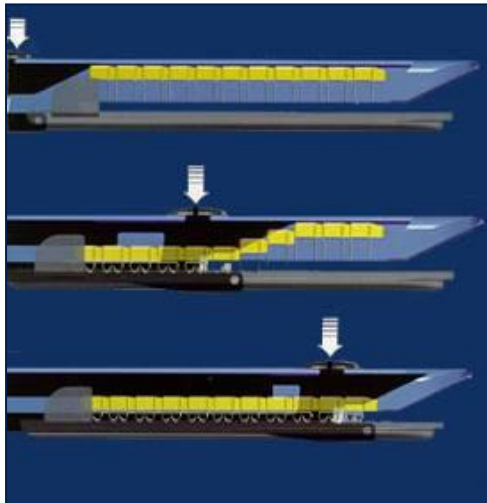
Current

3 rows on each side of cut line
variable height staples

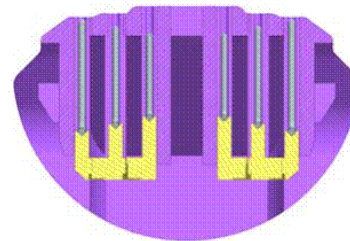


Tri-Staple™

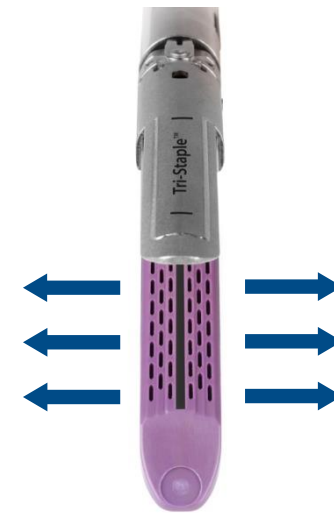
Diffusion of Tissue & Tissue Fluids



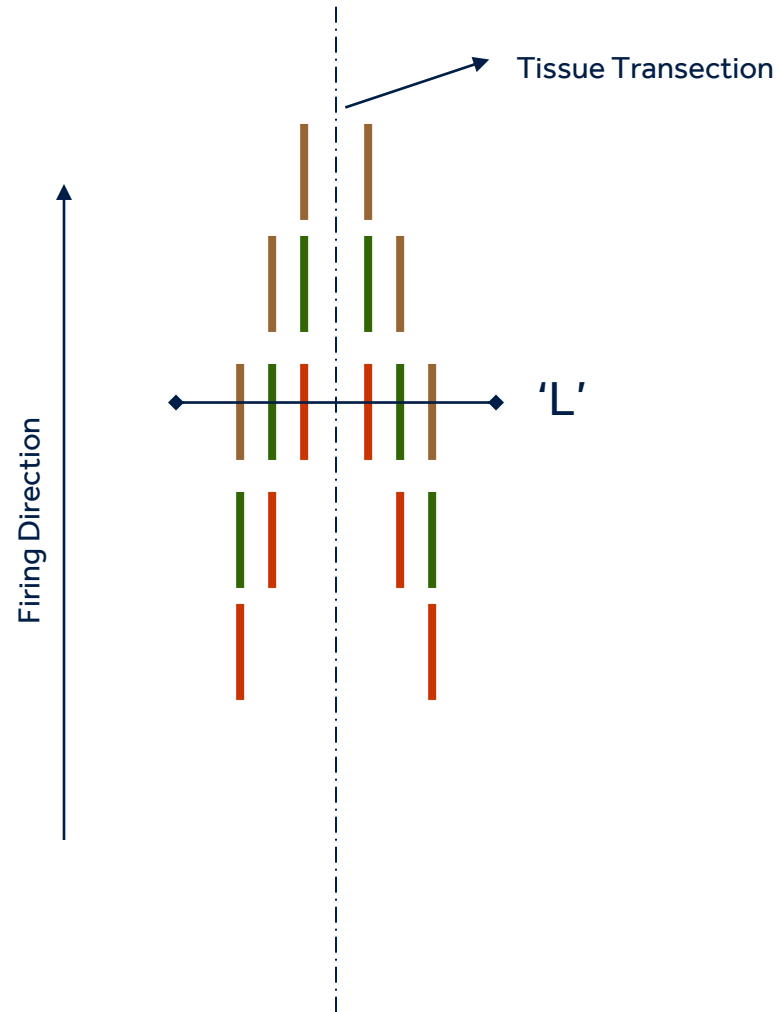
Current



Tri-Staple™



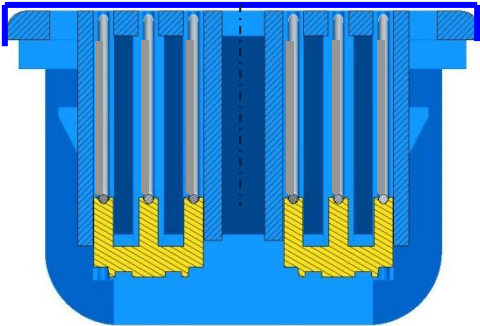
IMPROVED FIRING MECHANISM



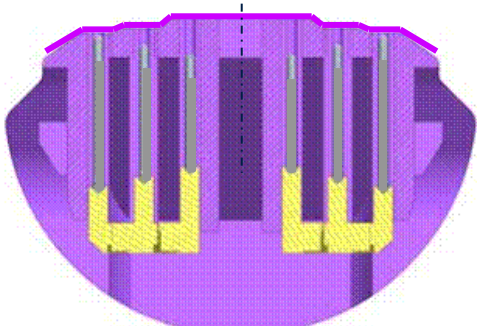
All the staples denoted by a single color fire at the same time. Staples denoted in red fire first followed by staples denoted in green & then the staples denoted in brown

In one horizontal plane (for example, 'L') inner staple row closest to the knife bar fires first, followed by the middle staple row and then the outer staple row

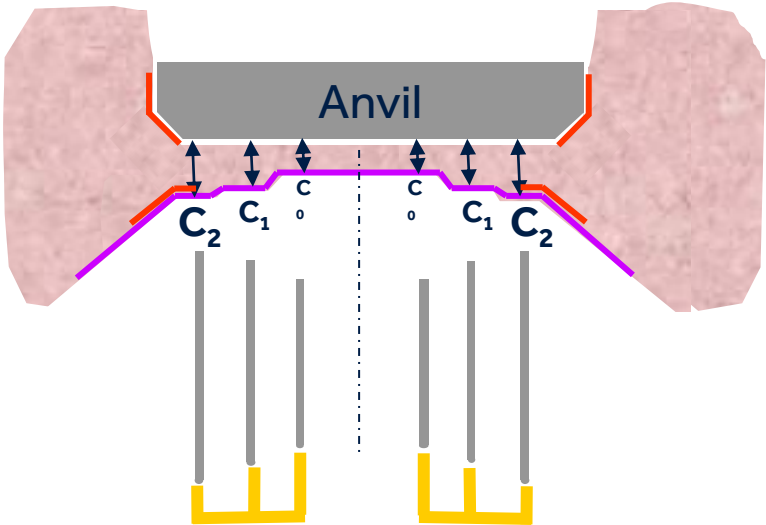
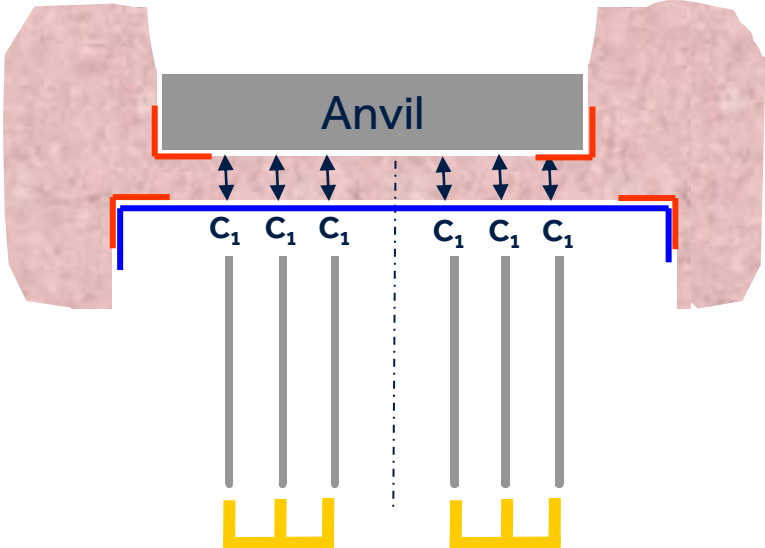
Tissue Compression Profile



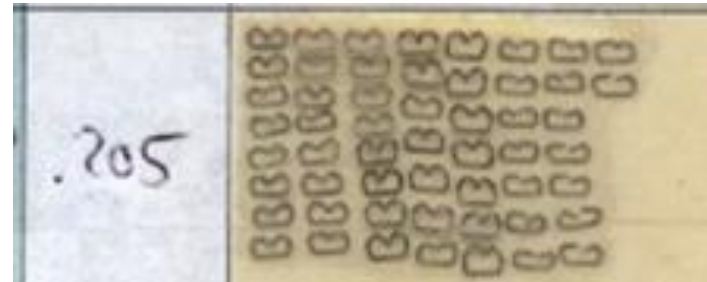
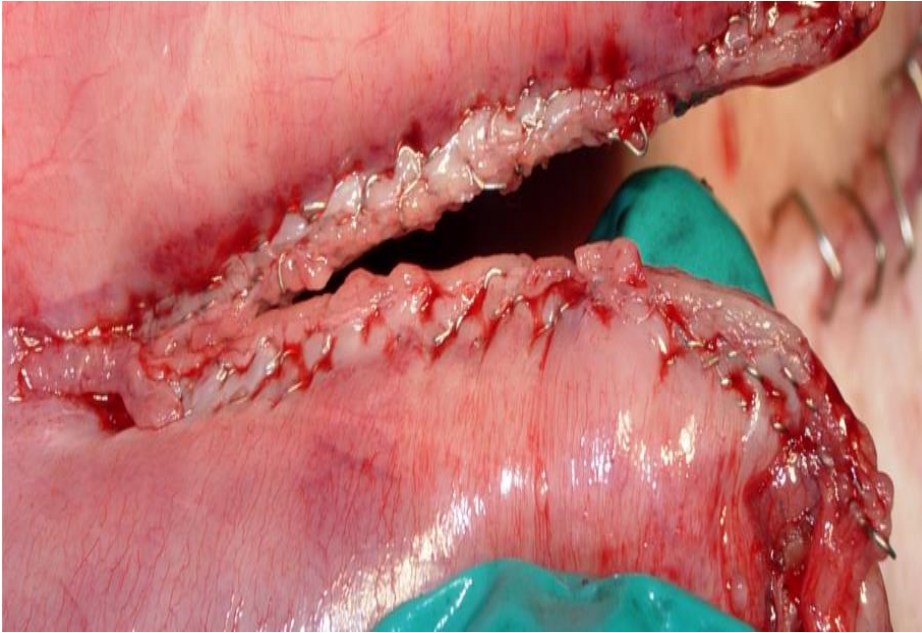
Current



Tri-Staple™



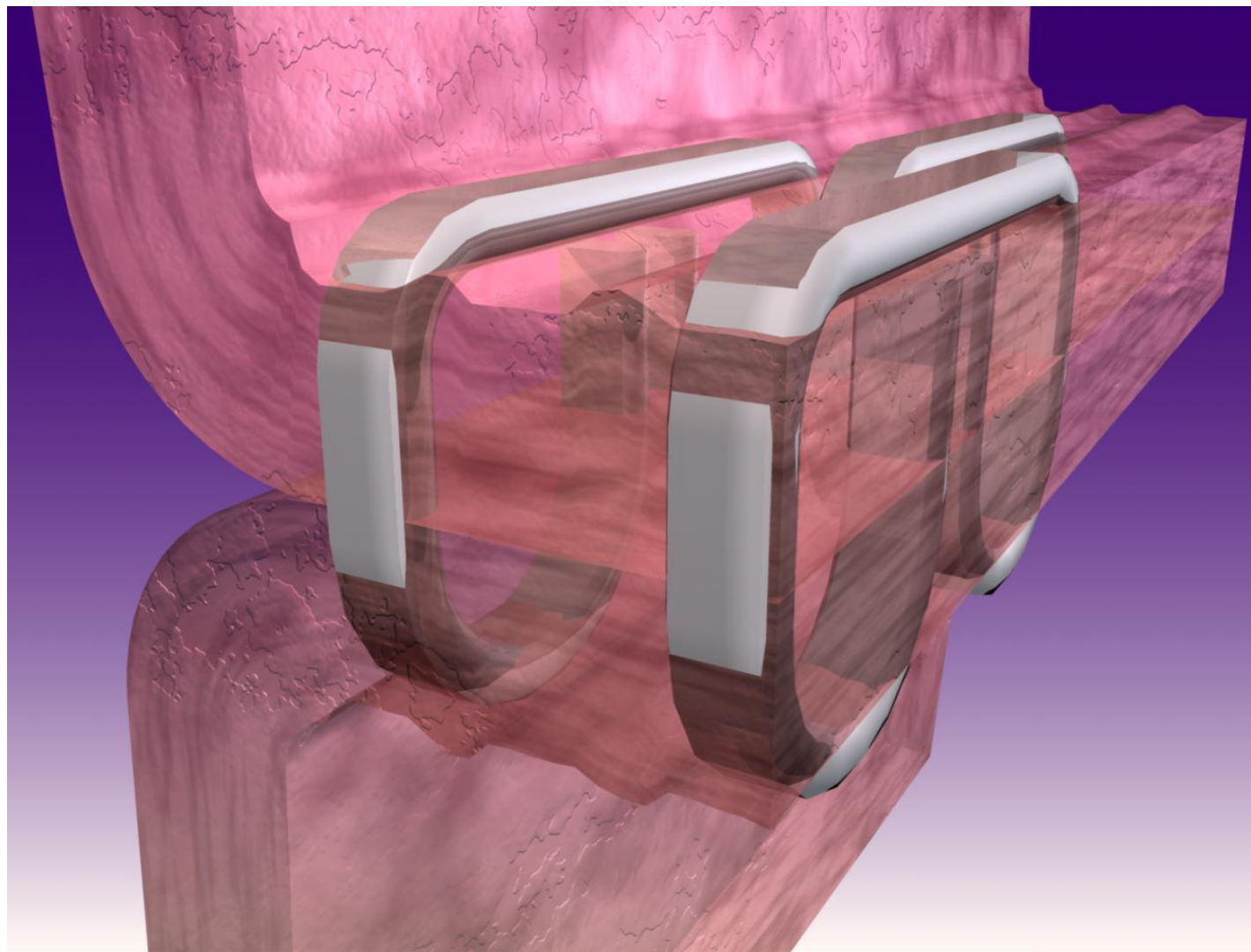
THICK TISSUE PERFORMANCE



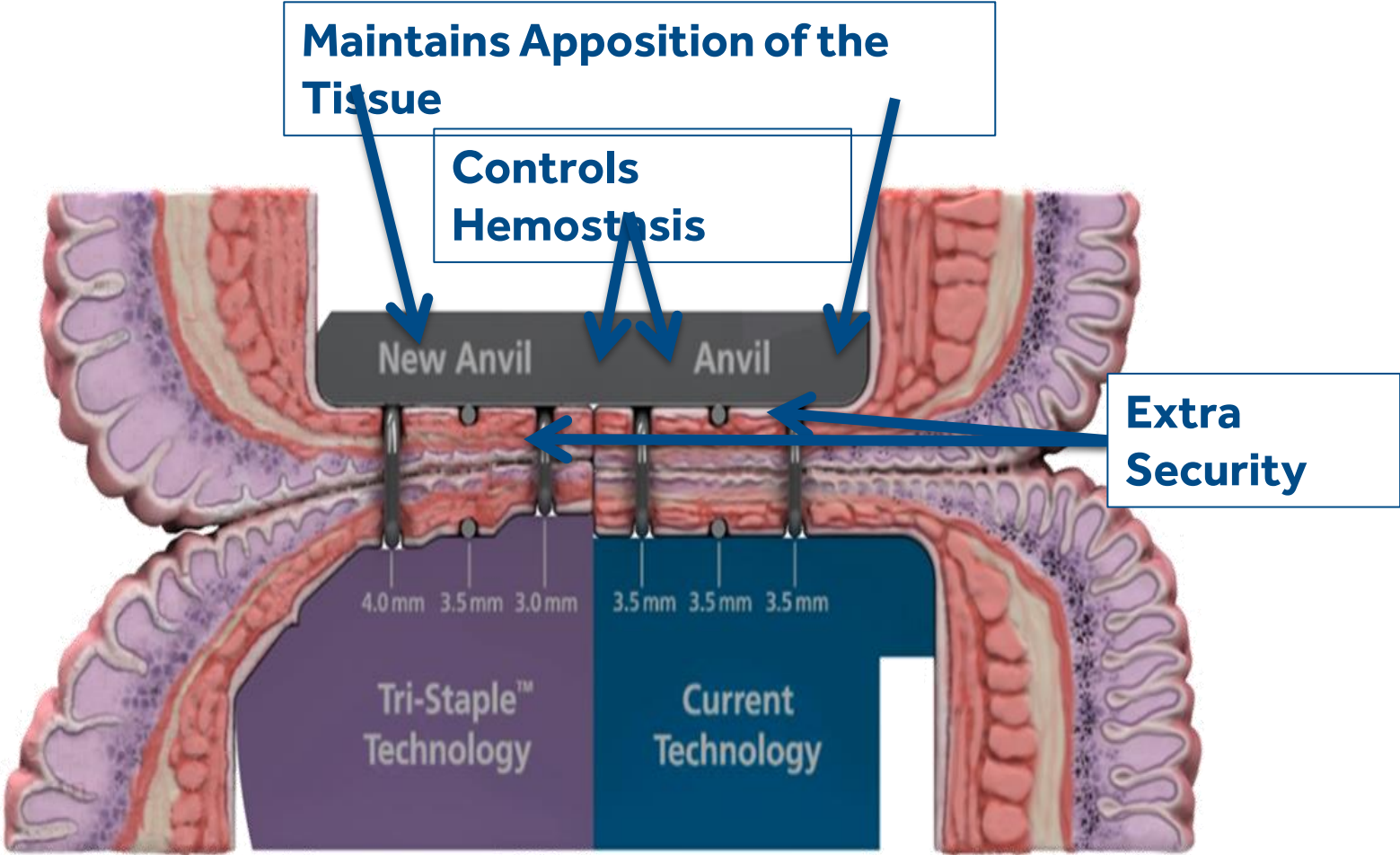
60-4.8 Control (Green) Fired in
.180" Thick Porcine Stomach

Tri-Staple Blue 3.0/3.5/4.0 (Purple)
Fired in .205" Thick Porcine Stomach

Tri-Staple™ Concept



Tri-Staple™ Technology – Progressive Staple Heights



SELECTION OF ENDO GIA™ RELOADS WITH TRI-STAPLE™ TECHNOLOGY

Endo GIA™ Reloads with Tri-Staple™ Technology

Outstanding Performance Across a Broader Range of Tissues and Applications

RELOAD SELECTION CHART

Vascular Range		Medium Range	Thick Range	Extra Thick Range
Extra Thin	Thin			
Endo GIA™ Reloads without Tri-Staple™ Technology				
Gray	White	Blue	Green	
New Endo GIA™ Reloads with Tri-Staple™ Technology				
	Tan	Purple	Black	
Ethicon Echelon™/ETS Reloads				
Gray	White	Blue	Gold	Green

TRI-STAPLE™

APPLICATION CHART



SPECIALTY	APPLICATION	RELOAD	
Gastro-Intestinal	Esophagus	TAN	
	Jejunum	TAN	
	Duodenum	TAN	PURPLE
	Stomach Body	PURPLE	BLACK
	Gastro-Duodenostomy	TAN	PURPLE
	Gastro-Jejunostomy	TAN	PURPLE
	Esophago-Jejunostomy	TAN	
General Thoracic	Pulmonary (Lobar) Vessels	TAN	
	Lobar Bronchus	PURPLE	
	Inter Lobar Fissures	PURPLE	
	Lung Parenchyma (Segmentectomy/Wedge/Pneumothorax)	PURPLE	BLACK
	Esophagus	TAN	
	Esophago-Jejunostomy	TAN	
Colorectal	Colon (Ascending/Transverse/Descending)	TAN	
	Sigmoid Colon	PURPLE	
	Rectum	PURPLE	BLACK
	Colo-Colostomy	TAN	
HBP	Liver Parenchyma	TAN	
	Distal Pancreas	PURPLE	BLACK
GYN	Adnexa	TAN	
URO	Kidney Hilum	TAN	
	Dorsal Vein Complex	TAN	

COMPREHENSIVE TISSUE MANAGEMENT SOLUTION



Endo GIA™ Reloads with Tri-Staple™ Reloads

EGIA45AV	EGIA 45 mm Vascular Reload
EGIA30AVM	EGIA 30 mm Vascular/Medium Reload with Tri-Staple™ Technology
EGIA45AVM	EGIA 45 mm Vascular/Medium Reload with Tri-Staple™ Technology
EGIA60AVM	EGIA 60 mm Vascular/Medium Reload with Tri-Staple™ Technology
EGIA30AMT	EGIA 30 mm Medium/Thick Reload with Tri-Staple™ Technology
EGIA45AMT	EGIA 45 mm Medium/Thick Reload with Tri-Staple™ Technology
EGIA60AMT	EGIA 60 mm Medium/Thick Reload with Tri-Staple™ Technology
EGIA45AXT	EGIA 45 mm X-Tra Thick Reload with Tri-Staple™ Technology
EGIA60AXT	EGIA 60 mm X-Tra Thick Reload with Tri-Staple™ Technology

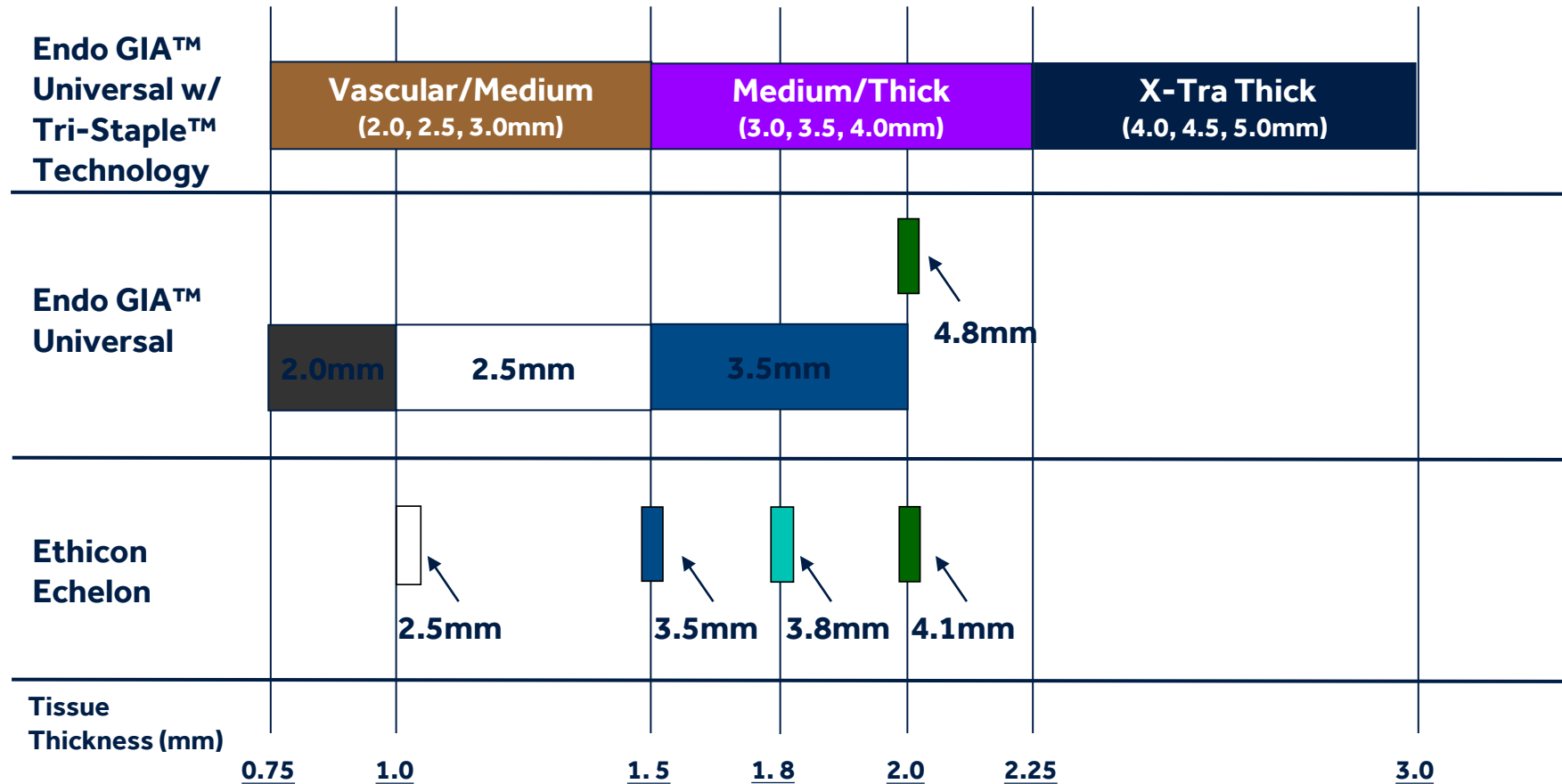
Endo GIA™ Curved Tip Reloads with Tri-Staple™ Reloads

EGIA45CTAV	EGIA 45 mm Curved Tip Vascular Reload
EGIA30CTAVM	EGIA 30 mm Curved Tip Vascular/Medium Reload with Tri-Staple™ Technology
EGIA45CTAVM	EGIA 45 mm Curved Tip Vascular/Medium Reload with Tri-Staple™ Technology
EGIA60CTAVM	EGIA 60 mm Curved Tip Vascular/Medium Reload with Tri-Staple™ Technology
EGIA60CTAMT	EGIA 60 mm Curved Tip Medium/Thick Reload with Tri-Staple™ Technology

Endo GIA™ Ultra Universal Staplers

EGIAUSTND	EGIA Ultra Universal Stapler
EGIAUXL	EGIA Ultra Universal XL Stapler
EGIAUSHORT	EGIA Ultra Universal Short Stapler

Intended Tissue Thickness Range



EXAMPLES OF POSITIVE FEEDBACK

- The handle is great. Feels more substantial and really like the ability to open the jaws by pushing the handle forward. Seems easier to fire – less force.
- Love fixed anvil for positioning behind vessels and tight spaces. Fired 45 tan on superior pulmonary artery with NO bleeding. Very 'hemostatic'. Used purple reload on bronchus.
- Grasping a great addition as well as being able to use a 12mm trocar throughout the case. Compression is another plus.
- Staple lines looked good; very pleased with the lack of blood which is generally present in these cases.
- The stapler is much smoother. I was impressed with the nice staple lines on very thick tissue. I liked the one handed open and close feature.
- This product is so much better from the previous version. It is good to see that you guys have taken the time to listen to specific needs that we surgeons have. It far surpasses what was previously available.

One handed grasping

Increased articulation

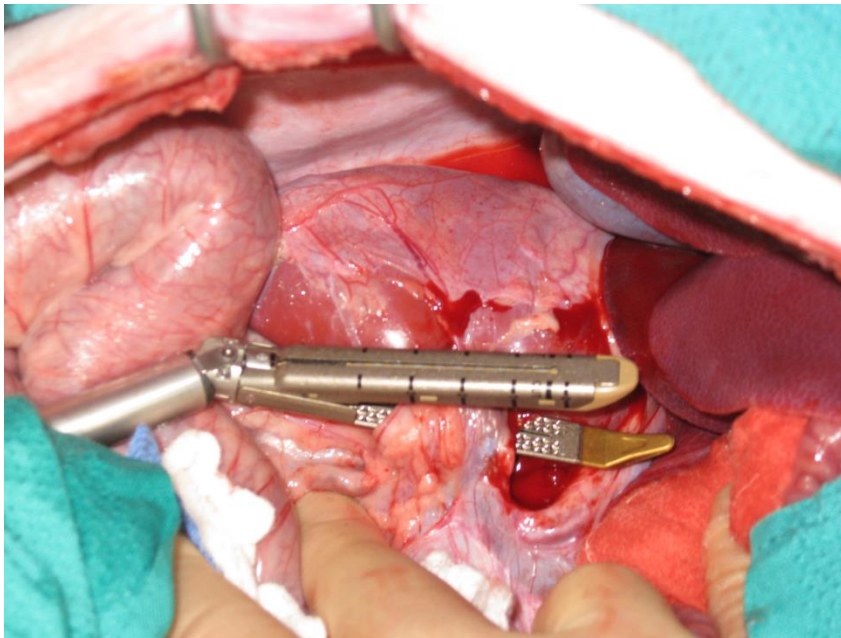
Higher compression; no tissue extrusion from distal end of Reload

Enhanced maneuverability of fixed anvil

Hemostasis

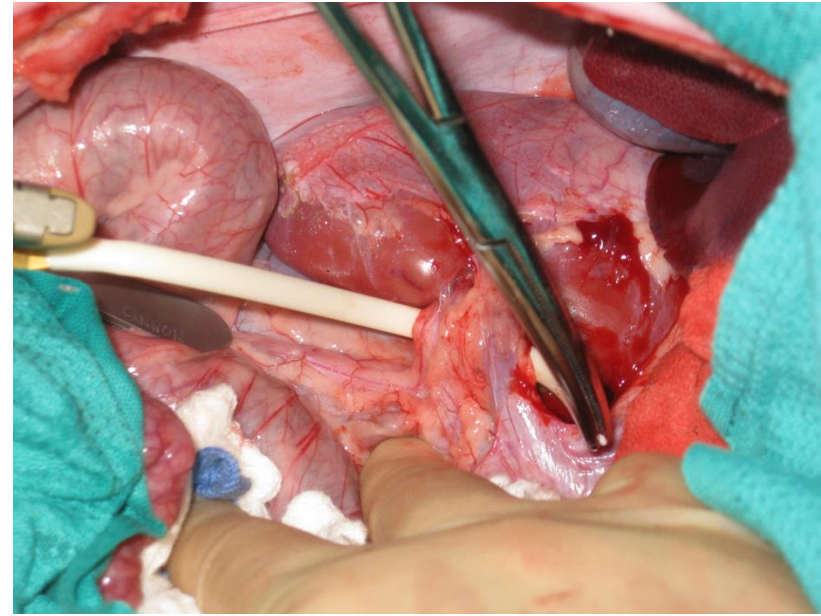
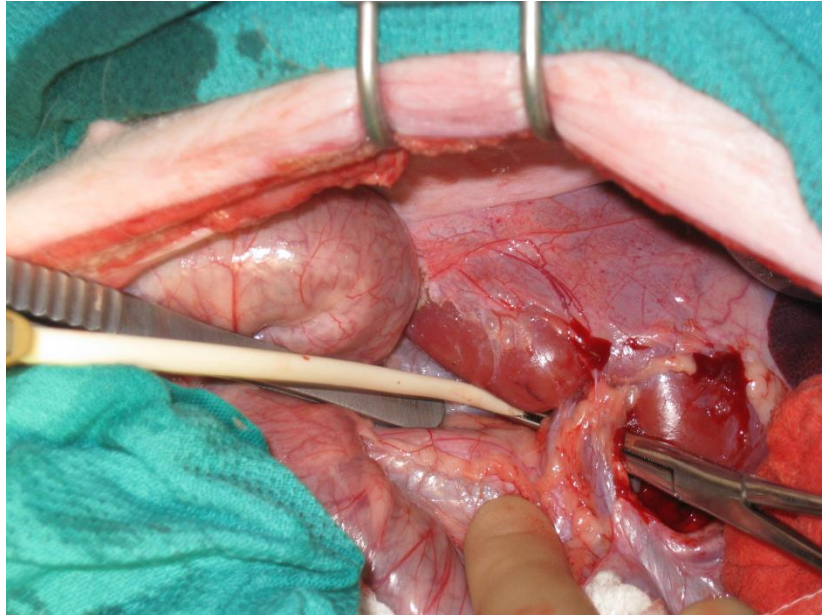
**ENDO GIA™ CURVED TIP RELOAD
WITH TRI-STAPLE™ TECHNOLOGY**

ENDO GIA™ CURVED TIP RELOADS WITH TRI-STAPLE™ TECHNOLOGY



- ✓ Provides smooth access to the surgical site
- ✓ Enhances visualization
- ✓ Aids in tissue manipulation
- ✓ Allows blunt dissection
- ✓ Facilitates use of Flexible Introducer

FLEXIBLE INTRODUCER



- ✓ Short catheter included with each curved tip reload package
- ✓ Surgeons may use the curved tip reload with or without the flexible introducer
- ✓ Flexible Introducer helps to guide the fixed anvil underneath the vessel/tissue that is to be transected