

Innovative Elements and Improved Features— Endo GIA™ Reloads with Tri-Staple™ Technology

Performance Enhancements—Endo GIA™ Reloads with Tri-Staple™ Technology

1. STRONGER, **STREAMLINED FIXED ANVIL**

1.1, 1.2 ir 1.3 p.d fiksuotas priekalas

- Improves maneuverability of stapler around target tissue
- Enhances clamping force
- Provides consistent B-shaped staple formation when firing in thicker tissue
- Robust tissue stop to ensure good contact between cartridge and anvil



The enhanced clamping force of the stronger and slimmer fixed anvil may reduce distal tissue extrusion when firing.

Innovative Elements and Improved Features— Endo GIA™ Reloads with Tri-Staple™ Technology

3. VARIED-HEIGHT STAPLES

- Facilitates use over a broader range of tissue thicknesses
- Improves burst pressure due to reduced tissue compression stress on outer staple row compared with Endo GIA™ Universal reloads (per results from bench testing)
- Provides tighter staple closure on inner staple row closest to the cut line

Endo GIA™ Reloads with Tri-Staple™ Technology Open and Closed Staple Heights and Wire Diameter

2.4 Kasetės užpildytos skirtingo aukščio kabutėmis, kurių uždarytų kabučių aukštis vienoje kasetėje yra 0,75 mm, 1,00 mm, 1,25 mm ir 1,25 mm, 1,50 mm, 1,75 mm

				
Vascular/Medium Tan Reloads	OPEN	2.0mm (.079")	2.5mm (.098")	3.0mm (.118")
	CLOSED	0.75mm (.030")	1.0mm (.039")	1.25mm (.049")
	BACKSPAN	3.0mm (.118")	3.0mm (.118")	3.0mm (.118")
	WIRE DIAMETER	0.22mm (.0085")	0.22mm (.0085")	0.22mm (.0085")
				
Medium/Thick Purple Reloads	OPEN	3.0mm (.118")	3.5mm (.138")	4.0mm (.157")
	CLOSED	1.25mm (.049")	1.5mm (.059")	1.75mm (.069")
	BACKSPAN	3.0mm (.118")	3.0mm (.118")	3.0mm (.118")
	WIRE DIAMETER	0.22mm (.0085")	0.22mm (.0085")	0.24mm (.0094")
				
Extra-Thick Black Reloads	OPEN	4.0mm (.157")	4.5mm (.177")	5.0mm (.197")
	CLOSED	1.75mm (.069")	2.0mm (.079")	2.25mm (.089")
	BACKSPAN	3.0mm (.118")	3.0mm (.118")	3.0mm (.118")
	WIRE DIAMETER	0.24mm (.0094")	0.24mm (.0095")	0.24mm (.0096")

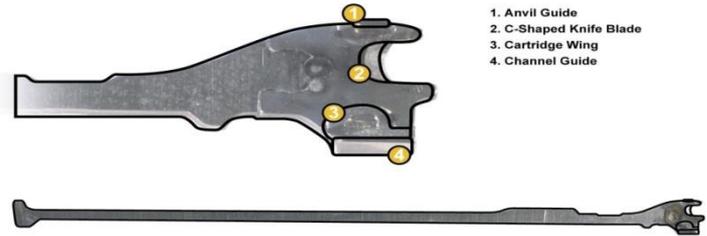
Features and Benefits

Endo GIA™ Reloads with Tri-Staple™ Technology

Feature	Attribute	Benefit
Tri-Staple™ Technology	Varied-height staples (two triple-staggered, height-progressive rows of titanium staples)	<ul style="list-style-type: none"> Improved burst-pressure strength (per results from bench testing) Reduced tissue compression on outer staple row compared with Endo GIA™ Universal reloads Hemostatic inner staple row complements the robust outer staple row
Advanced Tissue Compression	Stepped cartridge face	<ul style="list-style-type: none"> Intended to be used over a broader range of tissue thicknesses Reduced force required to compress tissue to desired thickness Facilitates lateral diffusion of tissue fluids during clamping and firing
Stronger and Slimmer Fixed Anvil	Stronger fixed anvil made of heavier-gauge material, continuously welded	<ul style="list-style-type: none"> Improved maneuverability of stapler around target tissue Enhanced clamping force Improved tissue retention during manipulation and transection
Altered End of Staple Row Configuration	Four staples at the distal end of the cartridge	<ul style="list-style-type: none"> Increased staple-line security on partially transected tissues
New Knife Blade and Anvil with Each Reload	Reload comprises a complete assembly of a cartridge, anvil and knife bar 1.p. d Endoskopinis linijinis lankstus mechaninis siuvimo aparatas su peiliu, integruotu kasetėje	<ul style="list-style-type: none"> Ensures sharp blade for each transection, minimizing tissue tearing Eliminates impact of anvil bucket wear
Stronger Knife Blade	Higher tensile strength and a stronger I-beam profile of the knife blade	<ul style="list-style-type: none"> Smooth tissue transection in challenging thick tissue applications
Larger Anvil Buckets	"Dog bone" structure is similar to the anvil buckets used in DST Series™ staplers	<ul style="list-style-type: none"> Facilitates formation of consistent B-shaped staples to provide optimal staple-line security

3-Point Gap Control

- It is part of the Knife Blade Assembly.



- This gap control mechanism is machined from one piece of 400-series steel to provide strength and rigidity.
- It provides 3 points of contact to ensure the anvil, cartridge and channel are all aligned and calibrated for consistent staple formation and hemostasis.
- The first point of contact is the Anvil Guide, which moves through the rigid anvil and positions the staple pockets.
- The second point of contact is the Channel Guide, which moves along the bottom of the cartridge channel and ensures alignment of the cartridge channel to the anvil.
- The third point of contact is the Cartridge Wing, which moves through the cartridge and ensures that the cartridge is positioned appropriately within the channel

ENDO GIA™ ULTRA HANDLE

Product Offering FY10

Improved Articulation up to 45 degree



ENDO GIA™ ULTRA HANDLE

Product Offering FY10

ENDO GIA™ PLATFORM STILL OFFERS....

- Tissue Gap Control
- New sterile knife blade with every firing
- New sterile anvil with every firing

- **Universal design;**

- One handle for multiple reloads

- **Compatibility with existing**

- Endo GIA™ Reloads**

- All standard reloads

- Duet TRS™ reloads

- Lightweight design

- **25 Firings**

1.4 Užtaisoma pasirinktinai vienkartinėmis steriliomis 45 ir 60 mm ilgio kasetėmis. 9.Su tuo pačiu aparatu leidžiama panaudoti 25 kasetes



ENDO GIA™ ULTRA HANDLE

Product Offering FY10

Endo GIA™ Universal Handle

Universal Handle

- 36 degree of articulation
- 5 positions
 - 2 left – neutral – 2 right
- Difficult to load / unload
- No grasping option
- Compatible with all Reloads

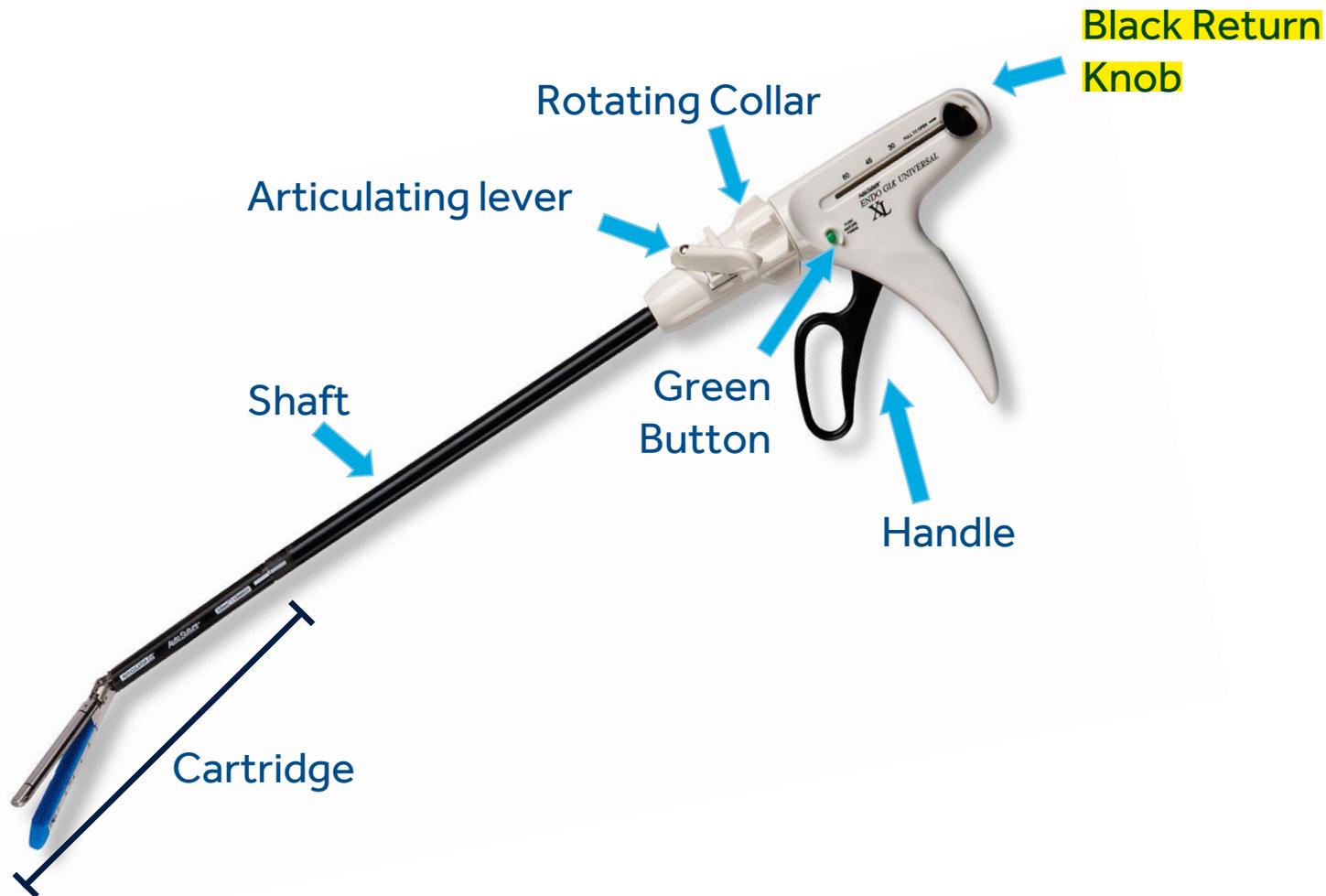
Endo GIA™ Ultra Handle

Ultra Handle

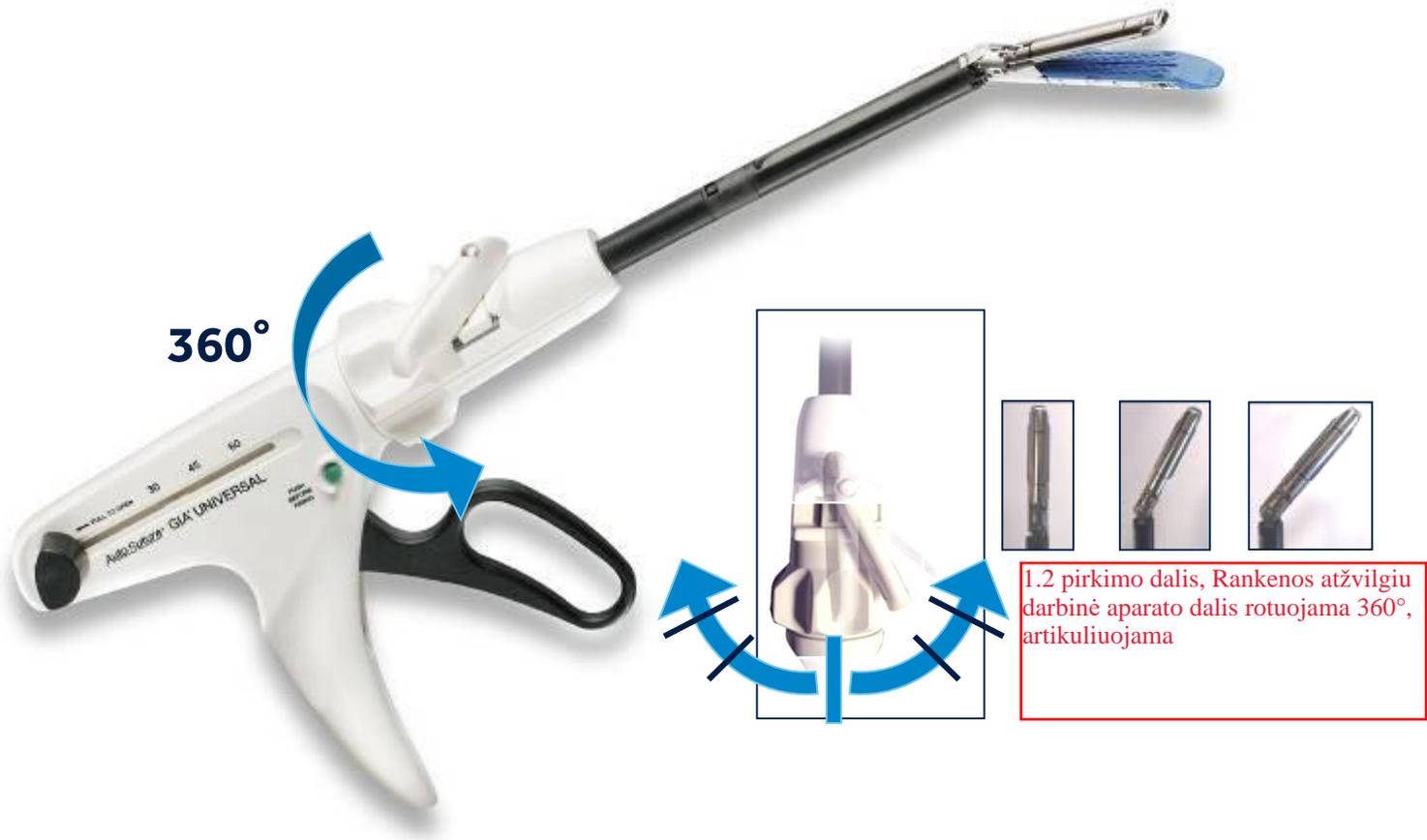
- TRUE 45 degree articulation
 - Improved access
- 11 positions
 - 5 left – neutral – 5 right
- Unload button, easy and simple to unload the cartridges
- GRASPING mechanism
- Compatible with all Reloads
- Shorter reach, more ergonomic
- Ease of firing

ENDO GIA™ Universal

1.8 Galimas daugartinis instrumento uždarymas ir atidarymas prieš iššaukant



ENDO GIA™ Universal



ENDO GIA™ Universal

Key Features	Key Benefits
25 firings per instrument	Reduces procedure costs, most surgeons will never need more than one instrument
22 and 45 degree SULU articulation	Can reduce the need for additional trocars to gain access to difficult surgical sites
Wide jaw opening available for 30mm and 45mm sizes as well as 60mm	Easy placement on tissue
Lock-out feature	The instrument won't fire, if it has already been used. It won't fire if tissue thickness is well beyond color standards

1.6 p.d Turi automatinį saugumo mechanizmą, neleidžiantį iššauti panaudotos kasetės.

CURVED TIP RELOAD
(With Optional Flexible Introducer)



- Enhanced direct visualization and smooth access to the surgical site
- Ability to dissect and manipulate tissue and vessels
- Includes Tri-Staple™ Technology

EXTRA-THICK RELOADS



- Extends stapling capability to extra-thick tissue
- Includes Tri-Staple™ Technology

Endo GIA™ Reloads with Tri-Staple™ Technology accommodate a wider range of tissue thicknesses and simplify the staple selection decision.

RELOAD SELECTION CHART				
Extra-Thin Range	Thin Range	Medium Range	Thick Range	Extra-Thick Range
Vascular				
Endo GIA™ Reloads without Tri-Staple™ Technology				
2.0mm	2.5mm	3.5mm	4.8mm	
12mm port			15mm port	
New Endo GIA™ Reloads with Tri-Staple™ Technology				
Extra-Thin/Vascular†				
Vascular/Medium			Medium/Thick	
12mm port			15mm port	
Ethicon Echelon™/ETS Reloads				
Thin/Mesenteric	Vascular/Thin	Regular	Regular/Thick	Thick
12mm port				

- **Simpler Selection:** The broader indicated tissue range allows one size reload to work over a broader range of tissue thicknesses
- **Reduced Inventory:** Two Endo GIA™ Reloads with Tri-Staple™ Technology do the same job as four Ethicon™ reloads, reducing the number of cartridges that needs to be stocked
- **Eliminates 15mm Trocar*:** Both the tan and purple reload use a 12mm port
- **Tri-Staple™ Tan Reload:** Incorporates 2.0, 2.5 and 3.0mm staples and is designed to accommodate a tissue thickness range of 0.88mm–1.8mm
- **Tri-Staple™ Purple Reload:** Incorporates 3.0, 3.5 and 4.0mm staples and is designed to accommodate a tissue thickness range of 1.5mm–2.25mm
- **Tri-Staple™ Black Reload:** Incorporates 4.0, 4.5 and 5.0mm staples and is designed to accommodate a tissue thickness range of 2.25mm–3.0mm. There is no other product that can accommodate this range of tissue thickness.

* Extra-thick black reload uses a 15mm trocar.
 † Extra-Thin/Vascular reload contains three rows of 2.0mm staples (non-varied-height) and contains all of the other features and benefits of an Endo GIA™ Reload with Tri-Staple™ Technology.
 ™* Trademark of its respective owner.



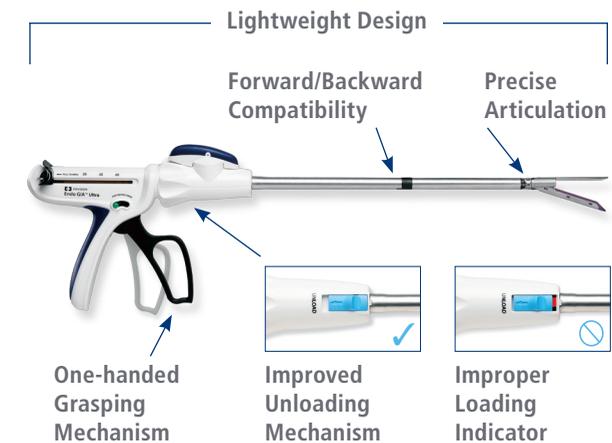
Outstanding Performance

Across a Broader Range of Tissues and Applications

Endo GIA™ Ultra Universal Stapler

Covidien's new Endo GIA™ Ultra Universal stapler delivers increased versatility while enhancing the user experience.

- **Ergonomic Design:** Lightweight handle fits comfortably in all hand sizes and fires smoothly, even in thick tissue
- **Precise Articulation:** Up to 45-degree, controlled articulation allows for improved access to challenging anatomy 1.4 p.d Artikuluojamas iki 45° kampu, galimos 11 artikuliacijos poziciju
- **One-handed Grasping Mechanism:** Jaws can be opened and closed with one hand for precise grasping and manipulation of tissue
- **Improved Unload Mechanism:** Larger and more accessible button for easier reloading
- **Forward/Backward Compatibility:** Endo GIA™ Ultra Universal staplers can be used with Endo GIA™ Reloads with Tri-Staple™ Technology, Endo GIA™ Straight and Endo GIA™ Reticulator™ reloads



Endo GIA™ Reloads with Tri-Staple™ Technology and Endo GIA™ Ultra Universal Staplers



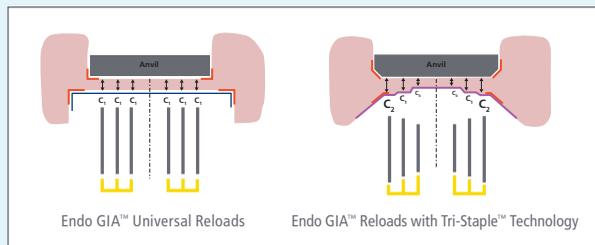


1 OUTSTANDING STAPLE PERFORMANCE

- **Consistent hemostatic performance** across a broader indicated tissue range
- **Variable Tissue Compression:** Stepped cartridge face applies increasing compression toward the cut line, enabling the optimal tissue thickness for each staple height
- **Increased Burst Pressure:** In vitro and in vivo testing results show improved burst-pressure strength with the Endo GIA™ Reloads with Tri-Staple™ Technology as compared to previous Endo GIA™ Reloads

1.3 p.d 3. Aparatas sukabina audinius 6 kabučių eilėmis ir tuo pačiu pjauna audinius tarp trečios ir ketvirtos kabučių eilių

TISSUE COMPRESSION PROFILE



2.2 6 kabučių eilės

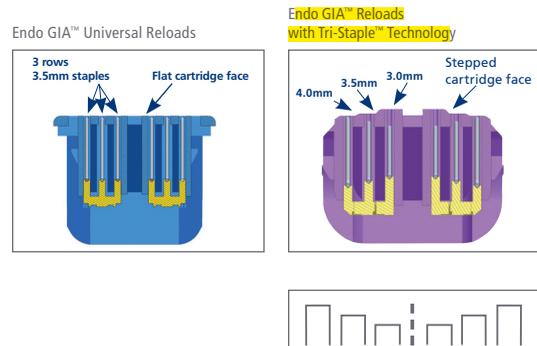
Tri-Staple™ Technology

Covidien's Tri-Staple™ Technology provides Endo GIA™ Reloads with outstanding performance across a broader range of tissues and applications, thereby simplifying the cartridge selection process.

- 1 Outstanding Staple Performance
- 2 Outstanding Tissue Compression and Control
- 3 Broader Range of Tissues
- 4 Broader Range of Applications
- 5 Simplified Cartridge Selection

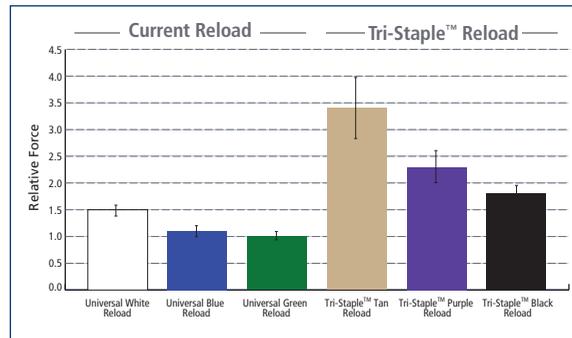
Tri-Staple™ Technology incorporates a patented stepped cartridge face and three staple heights in one reload.

CARTRIDGE CROSS SECTIONS



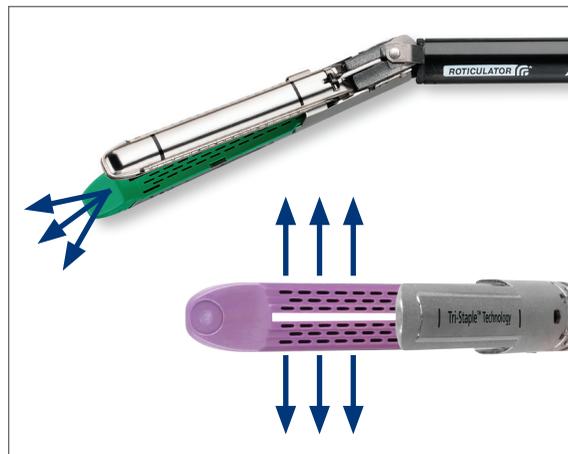
2 OUTSTANDING TISSUE COMPRESSION AND CONTROL

- **Higher Clamping Force:** Endo GIA™ Reloads with Tri-Staple™ Technology apply optimal tissue compression



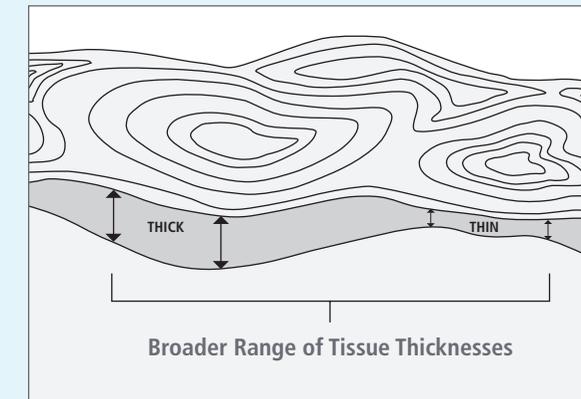
Relative amount of force applied during clamping for 60mm staplers with 2 pads of red foam being normalized for Universal™ green (n=5)

- **Reduced Distal Extrusion:** The increased compression and stepped cartridge face facilitate the lateral diffusion of tissue and minimize the distal extrusion of tissue



3 BROADER RANGE OF TISSUES

The increased compression, stepped cartridge face and three staple heights allow for optimal staple formation over a broader and variable range of tissue thicknesses.



STAPLE FORMATION IN THICK/VARIABLE TISSUE



60-4.8 Control (green) fired in thick porcine stomach



Tri-Staple™ 3.0/3.5/4.0 (purple) fired in thick porcine stomach

For more information or to set up a product demonstration, contact your local Covidien Surgical Device Representative or call Customer Service at 1-800-722-8772.

IMPORTANT

Please refer to the package insert for complete instructions, contraindications, warnings and precautions.



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12.10 P100158

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06511

1-800-722-8772

WWW.TRISTAPLE.COM

STAPLING SOLUTIONS

Product Reference

Endo GIA™ Ultra Universal Handle

1.11 ir 3.1 p.d endoskopinio linijinio siuvimo-pjovimo aparato rankena, suderinama su siūlomomis kasetėmis.

MEDTRONIC

Prekes kodas

ETHICON

Length	Device	Reorder Code	Reloads	EES Length	EES Product Code
Short		EGIAUSHORT	25	Short	SC45A & SC60A
Standard		EGIAUSTND	25	Standard	EC45A & EC60A
XL		EGIAUXL	25	XL	EC45AL & Long60A

Signia™ Stapling System

MEDTRONIC

ETHICON

Length	Device	Reorder Code	# Procedures	EES Length	EES Product Code
—		SIGPHANDLE	300	—	—
Short		SIGADAPTSHORT	50	Short	PCEE45A & PCEE60A
Standard		SIGADAPTSTND	50	Standard	PSEE45A & PSEE60A
Long		SIGADAPTXL	50	XL	PLEE45A & PLEE60A

Endo GIA™ Reloads with Tri-Staple™ Technology

MEDTRONIC

1 pirkimo dalis

Prekes kodas

Atidarytų kabučių aukštis

ETHICON

Standard Reload Length	Device	Kasetės endolinijiniam pjovėjui	Reorder Code	Color Code	Staple Heights	Tissue Type	EES Product Code	EES Reload Color	
30 mm			SIG30AV†	Gray	2 mm, 2 mm, 2 mm	Vascular			
			SIG30AVM	Tan	2 mm, 2.5 mm, 3 mm	Vascular/Medium			
			SIG30AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick			
45 mm	 1.1 p.d 1.2 p.d 1.3 p.d		EGIA45AV†	Gray	2 mm, 2 mm, 2 mm	Vascular	ECR45M	Gray	
			EGIA45AVM	Tan	2 mm, 2.5 mm, 3 mm	Vascular/Medium	ECR45W	White	
			EGIA45AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	ECR45B	Blue	
			EGIA45AMT	Purple	4 mm, 4.5 mm, 5.0 mm	Medium/Thick	ECR45D	Gold	
			EGIA45AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	ECR45G	Green	
			SIG45AXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	—	—	
60 mm	 1.1 p.d 1.2 p.d 1.3 p.d		—	—	—	—	ECR60M	Gray	
			EGIA60AVM	Tan	2 mm, 2.5 mm, 3 mm	Vascular/Medium	GST60W/ECR60W	White	
			EGIA60AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	GST60B/ECR60B	Blue	
			EGIA60AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	GST60D/ECR60D	Gold	
			EGIA60AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	GST60G/ECR60G	Green	
			SIG60AXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	GST60T/ECR60T	Black	
Curved Tip Reload Length	Device		Reorder Code	Color Code	Staple Heights	Tissue Type	EES Product Code	EES Reload Color	
30 mm			SIG30CTAV†	Gray	2 mm, 2 mm, 2 mm	Vascular	—	—	
				SIG30CTAVM	Tan	2mm, 2.5mm, 3 mm	Vascular/Medium	VASECR35/PVE35A	White
45 mm			SIG45CTAV†	Gray	2 mm, 2 mm, 2 mm	Vascular	—	—	
				SIG45CTAVM	Tan	2 mm, 2.5 mm, 3 mm	Vascular/Medium	—	—
				SIG45CTAMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	—	—
60 mm			SIG60CTAVM	Tan	2 mm, 2.5 mm, 3 mm	Vascular/Medium	—	—	
				SIG60CTAMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	—	—
Radial Reload	Device		Reorder Code	Color Code	Staple Heights	Tissue Type	EES Product Code	EES Reload Color	
			SIGRADMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	CS40B/CS40G	Blue/Green	
				SIGRADXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	—	—
Reinforced Reload	Device		Reorder Code	Color Code	Staple Heights	Tissue Type	EES Product Code	EES Reload Color	
45 mm			SIGTRSB45AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	—	—	
				SIGTRSB45AXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	—	—
60 mm			SIGTRSB60AMT	Purple	3 mm, 3.5 mm, 4 mm	Medium/Thick	—	—	
				SIGTRSB60AXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	—	—

3.6 Sustiprintos kasetės ilgis – 60 mm

†While offering a slimmer fixed anvil, reloads is a vascular reload that does not come with Tri-Staple™ technology.

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Endo GIA™ reloads with Tri-Staple™ technology and Endo GIA™ Ultra universal staplers



Endo GIA™ Ultra universal handle

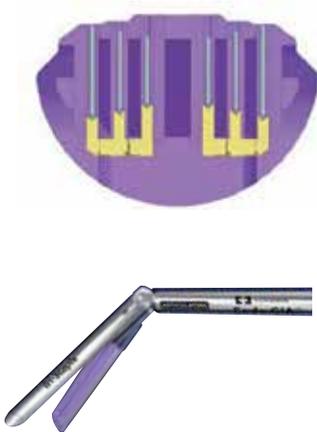
45° of articulation, approved for 25 firings. Compatible with Tri-Staple™ technology and Endo GIA™ Ultra universal single use loading units (SULUs).

Order Code	Description	Box Qty
EGIAUSHORT	Endo GIA™ Ultra universal short stapler 6 cm shaft length	3
EGIAUSTND	Endo GIA™ Ultra universal standard stapler 16 cm shaft length	3
EGIAUXL	Endo GIA™ Ultra universal XL stapler 26 cm shaft length	3



Endo GIA™ loading units

The reload design with Tri-Staple™ technology, intended to be used over a wider range of tissue thicknesses. They are compatible with the Endo GIA™ Ultra and the standard Endo GIA™ stapling system.



Order Code	Color Code	Description	Box Qty
EGIA30AV	■	Endo GIA™ 30 mm articulating vascular reload	6
EGIA30AVM	■	Endo GIA™ 30 mm articulating vascular/medium reloads With Tri-Staple™ technology	6
EGIA30AMT	■	Endo GIA™ 30 mm articulating medium/thick reloads With Tri-Staple™ technology	6
EGIA45AV	■	Endo GIA™ 45 mm articulating vascular reloads*	6
EGIA45AVM	■	Endo GIA™ 45 mm articulating vascular/medium reloads With Tri-Staple™ technology	6
EGIA45AMT	■	Endo GIA™ 45 mm articulating medium/thick reloads With Tri-Staple™ technology	6
EGIA45AXT	■	Endo GIA™ 45 mm articulating x-tra thick reloads With Tri-Staple™ technology	6
EGIA60AVM	■	Endo GIA™ 60 mm articulating vascular medium reloads With Tri-Staple™ technology	6
EGIA60AMT	■	Endo GIA™ 60 mm articulating medium/thick reloads With Tri-Staple™ technology	6

*Code EGIA30AV and EGIA45AV do not come with Tri-Staple™ technology, have a slimmer fixed anvil

STAPLING SOLUTIONS

Product Reference

TA™ Stapler With DST Series™ Technology

MEDTRONIC								ETHICON			
Shaft Length	Device	Reorder Code	Color Code	Reloads Available	Staple Height	Tissue Type	Max. Firings	EES Shaft Length	EES Product Code	EES Reload Code	
30 mm		TA30V3S	White	TA30V3L	2.5 mm	Vascular	8	30 mm	TX30V	XR30V	
		TA3035S	Blue	TA3035L	3.5 mm	Medium			TX30B	XR30B	
		TA3048S	Green	TA3048L	4.8 mm	Thick			TX30G	XR30G	
45 mm		TA4535S	Blue	TA4535L	3.5 mm	Medium		60 mm	TX60B	XR60B	
		TA4548S	Green	TA4548L	4.8 mm	Thick					
60 mm		TA6035S	Blue	TA6035L	3.5 mm	Medium			TX60G	XR60G	
		TA6048S	Green	TA6048L	4.8 mm	Thick					
90 mm		TA9035S	Blue	TA9035L	3.5 mm	Medium			90 mm	TL90	TR90
		TA9048S	Green	TA9048L	4.8 mm	Thick				TLH90	TRH90

GIA™ Stapler with DST Series™ Technology

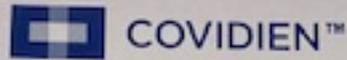
MEDTRONIC								ETHICON			
Shaft Length	Device	Reorder Code	Color Code	Reloads Available	Staple Height	Tissue Type	Max. Firings	EES Shaft Length	EES Product Code	EES Reload Code	
60 mm		GIA6025S	White	GIA6025L	2.5 mm	Vascular	8	55 mm	TVC55	TVR55	
		GIA6038S	Blue	GIA6038L	3.8 mm	Medium			TLC55	TCR55	
		SGIA6038S	Blue	GIA6038L	3.8 mm	Medium			55 mm	TCT55	TRT55
		GIA6048S	Green	GIA6048L	4.8 mm	Thick					
80 mm		GIA8038S	Blue	GIA8038L	3.8 mm	Medium		75 mm		TLC75	TCR75
		GIA8038S	Blue	GIA8038L	3.8 mm	Medium				TCD75	TRD75
100 mm		GIA8048S	Green	GIA8048L	4.8 mm	Thick		100 mm	TCT75	TRT75	
		GIA10038S	Blue	GIA10038L	3.8 mm	Medium			TLC10	TCR10	
		GIA10048S	Green	GIA10048L	4.8 mm	Thick			TCT10	TRT10	

EEA™ Circular Stapler with DST Series™ Technology

MEDTRONIC							ETHICON		
Lumen Size	Device	Reorder Code	Color Code	Staple Height	Tissue Type	EES Lumen Size	EES Product Code		
21 mm		EEA2135	Aqua	3.5 mm	Medium	21 mm	CDH21A		
		EEA21	Aqua	4.8 mm	Thick				
		EEAXL2135	Aqua	3.5 mm	Medium	21 mm	ECS21A		
		EEAXL21	Aqua	4.8 mm	Thick				
25 mm		EEA2535	White	3.5 mm	Medium	25 mm	CDH25A		
		EEA25	White	4.8 mm	Thick				
		EEAXL2535	White	3.5 mm	Medium			25 mm	ECS25A
EEAXL25		White	4.8 mm	Thick					
28 mm		EEA2835	Blue	3.5 mm	Medium	29 mm	CDH29A		
		EEA28	Blue	4.8 mm	Thick				
		EEAXL2835	Blue	3.5 mm	Medium			29 mm	CDH29
		EEAXL28	Blue	4.8 mm	Thick				
31 mm		EEA31	Green	4.8 mm	Thick	33 mm	CDH33A		
		EEAXL31	Green	4.8 mm	Thick				
33 mm		EEA33	Yellow	4.8 mm	Thick	33 mm	CDH33A		
		EEAXL33	Yellow	4.8 mm	Thick			ECS33A	

EEA™ Hemorrhoid Stapler

MEDTRONIC						ETHICON
Lumen Size	Device	Reorder Code	Color Code	Staple Height	Tissue Type	EES Product Code
33 mm		HEM3335	Blue	3.5 mm	Medium	PPH03
		HEM3348	Green	4.8 mm	Thick	



Endo GIA™ Ultra Universal Stapler



12 mm

REF EGI AUSTND
Universal Single Use Stapler

1.10 p.d. Rankenos stiebas lengvai
īvedamas per 12mm trokarā.



Surgical Solutions Metallic Staple Composition

In response to inquiries concerning possible allergic reactions to the staples and clips in Surgical Solutions (formerly US Surgical and TycoHealthcare) devices, the following information applies.

The composition of Surgical Solutions titanium and stainless steel clips and staples is;

Titanium		Stainless Steel	
Nitrogen	0.03%	Carbon	0.03%
Carbon	0.10%	Chrome	16.0 – 18.0%
Hydrogen	0.015%	Nickel	10.0 – 14.0%
Iron	0.20%	Manganese	2.0%
Oxygen	0.18%	Silicon	1.0%
Titanium	Balance	Sulfur	0.03%
		Phosphorus	0.045%
		Molybdenum	2.0 – 3.0%
		Iron	Balance

The following devices apply stainless steel staples or clips;

1. Premium GIA 50 & 90 Single Use Loading Units,
2. PI Single Use Loading Units,
3. LDS15L Single Use Loading Unit,
4. Royal, Concord, SM, Signet, MultiFire Premium, DFS, and Appose Skin Staplers.

All other Surgical Solutions internal staplers and clip applicators (with the exception of absorbable polymer products and MIBB 45%titanium/55%nickel) apply titanium staples or clips with the above listed compositions.

2.3 pirkimo dalis. Kabutės pagamintos iš titano ir plieno mišinio.

Biocompatibility testing has been performed to a level appropriate for permanent implant on both titanium and stainless steel with no adverse effects noted, and there is a long history of safety and efficacy for both materials as implants.



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Product Manual

Endo Stapling Ligation and Access

Endo Stapling

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Endo GIA™

Universal Stapler



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Endo GIA™

Universal Stapler

Endo GIA™ Universal Stapler Product Specifications

[\[3 \] n.d. aparatais sukabina audimius kabutēmis ir tuo pačiu pjauna audimius tarp kabučių eilū](#)

The Endo GIA™ Stapler places two triple-staggered rows of staples (one set of rows on the patient side and one set of rows on the specimen side) with a knife blade that simultaneously cuts between the rows. Endo GIA™ Stapler comes in three different handle sizes. Each handle is universal, meaning it will load any of the twenty different SULLs offered. The handle name, size, description and product codes are listed following:

Instrument	Shaft Length	Applications	Product Order Code
GIA™ Universal	6cm	Used mainly in open surgical procedures	030403
Endo GIA™ Universal	16cm	Used mainly in standard endoscopic cases	030449
Endo GIA™ Universal XL	26cm	Used mainly in cases where extra shaft length is necessary	EGIA UNIXL

Order Information

Order Code	Description	Units per box
030403	GIA™ Universal 12 mm	3
030449	Endo GIA™ Universal	3
EGIAUNIXL	Endo GIA™ Universal XL	3



Now that you are familiar with the various Endo GIA™ universal handles offered, following are the different available SULLs:

Linear Jaw Length	Staple Leg Length	Straight	Rotulating	Applications
30mm	2.0	X	X	Used for mesentery or smaller vascular structures
30mm	2.5	X	X	Generally used for vascular structures or small bowel
30mm	3.5	X	X	*Medium* tissue thickness: stomach, lung, colon
45mm	2.0	X	X	Used for mesentery or smaller vascular structures
45mm	2.5	X	X	Generally used for vascular structures or small bowel
45mm	3.5	X	X	*Medium* tissue thickness: stomach, lung, colon
45mm	4.8	X	X	Thick tissue applications
60mm	2.5	X	X	Generally used for vascular structures or small bowel
60mm	3.5	X	X	*Medium* tissue thickness: stomach, lung, colon
60mm	4.8	X	X	Thick tissue applications

Note: 4.8mm Reloads require a 1.5mm trocar. All other reloads are compatible with 12mm.

Endo GIA™ Universal Stapler

Order Information

Order Code	Description	Units per box
030412	Endo GIA™ Universal Straight 60 - 2.5 Sulu	6
030414	Endo GIA™ Universal Straight 60 - 3.5 Sulu	6
030415	Endo GIA™ Universal Straight 60 - 4.8 Sulu	6
030416	Endo GIA™ Universal Straight 30 - 2.0 Sulu	6
030418	Endo GIA™ Universal Straight 30 - 2.5 Sulu	6
030419	Endo GIA™ Universal Straight 30 - 3.5 Sulu	6
030422	Endo GIA™ Universal Straight 45 - 3.5 Sulu	6
030423	Endo GIA™ Universal Straight 45 - 4.8 Sulu	6
030425	Endo GIA™ Universal Straight 45 - 2.5 Sulu	6
030426	Endo GIA™ Universal Straight 45 - 2.0 Sulu	6

[\[9 p.d. su tuo pacéiu aparatu. IendZiama paratuidoti 2.5 kasetes](#)

Order Information

Order Code	Description	Units per box
030450	Endo GIA™ Rotriculator™ 30 - 2.0 Sulu	6
030451	Endo GIA™ Rotriculator™ 30 - 2.5 Sulu	6
030452	Endo GIA™ Rotriculator™ 30 - 3.5 Sulu	6
030453	Endo GIA™ Rotriculator™ 45 - 2.0 Sulu	6
030454	Endo GIA™ Rotriculator™ 45 - 2.5 Sulu	6
030455	Endo GIA™ Rotriculator™ 45 - 3.5 Sulu	6
030456	Endo GIA™ Rotriculator™ 45 - 4.8 Sulu	6
030457	Endo GIA™ Rotriculator™ 60 - 2.5 Sulu	6
030458	Endo GIA™ Rotriculator™ 60 - 3.5 Sulu	6
030459	Endo GIA™ Rotriculator™ 60 - 4.8 Sulu	6

Features and Benefits for Endo GIA™ Universal

Key Features	Key Benefits
60mm Articulating loading units	<ul style="list-style-type: none"> Allows the surgeon to maintain similar stapling techniques as open surgery by using 60mm staple lines Can help reduce the number of firings needed and minimizes crossing staple lines
Universal Handle for all loading units	<ul style="list-style-type: none"> Helps reduce procedure costs; surgeons may not need a second instrument in a procedure Helps reduce inventory costs; hospitals can stock just one instrument instead of eight from Ethicon
Six rows of staples with all sizes	Staple line security
New sharp and sterile knife with each reload	Never dull from cutting through staple lines, and no risk of cross contamination
4.8 mm staples	Hemostasis in thick tissue
	<i>**Note: 4.8mm staples require a 1.5mm trocar</i>
Tissue Gap Control	Ensures precise staple formation along the entire staple line
25 firings per instrument	Reduces procedure costs, most surgeons will never need more than one instrument
22 and 45 degree SULLU articulation	Can reduce the need for additional trocars to gain access to difficult surgical sites
Wide jaw opening available for 30mm and 45mm sizes as well as 60mm (Only Echelon 60 and 45 have wide jaw openings)	Easy placement on tissue

Endo GIA™ universal stapling system



Endo GIA™ universal stapling system

It accommodates straight and articulating loading units, approved for 25 firings.

Order Code	Description	Box Qty
030403	GIA™ universal 12 mm Single use instrument for open surgery, 6 cm shaft length	3
030449	Endo GIA™ universal 12 mm Single use instrument, 16 cm shaft length	3
EGIAUNIVXL	Endo GIA™ universal XL 12 mm Single use instrument for bariatric surgery, 26 cm shaft length	3

1.2.2 p.d kabutēs pagamintos iš titano

Endo GIA™ universal Reticulator™ loading units

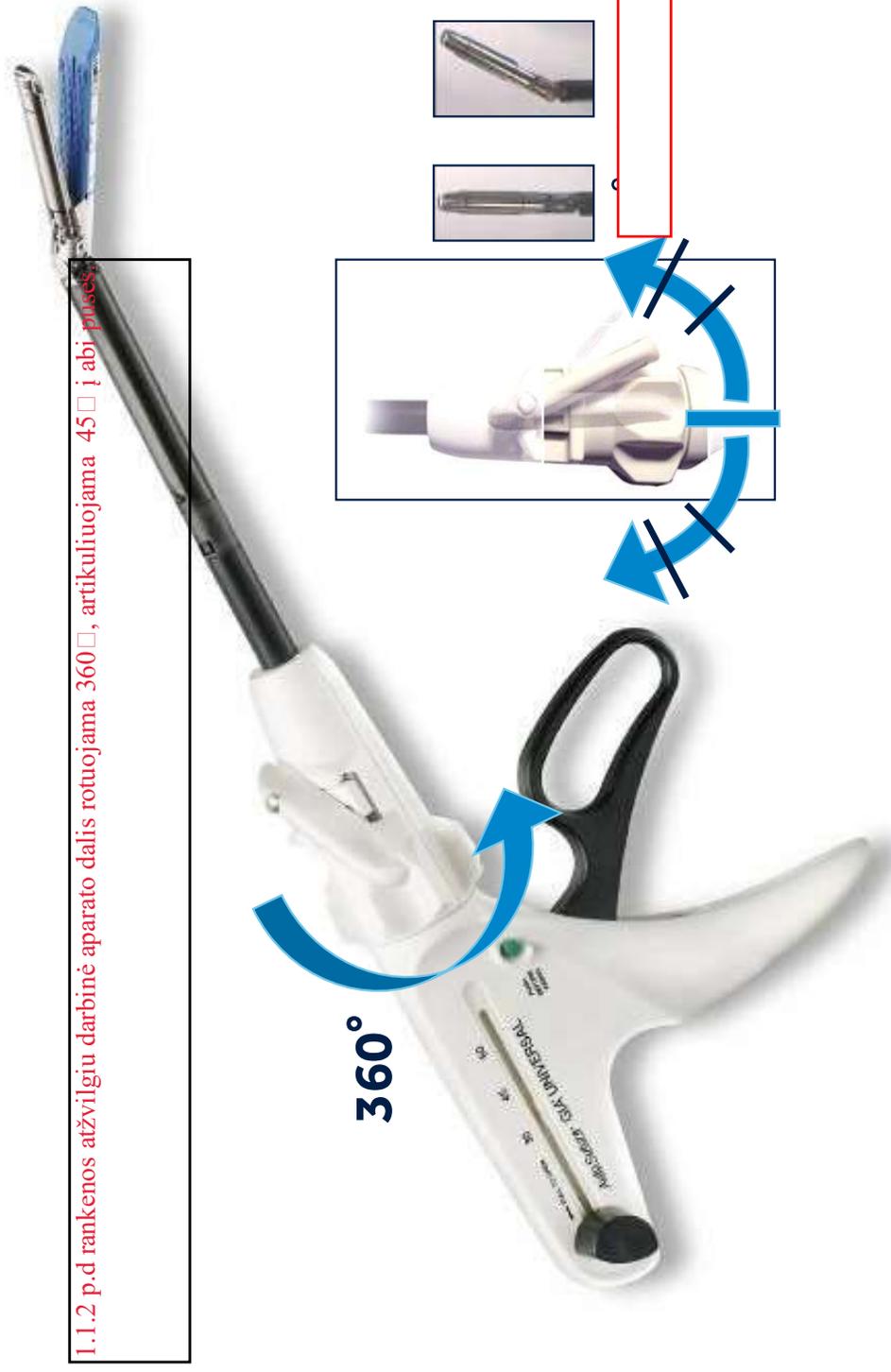
Single use loading units (SULUs) with titanium staples for use with the Endo GIA™ universal (030449), GIA™ universal (030403), and Endo GIA™ universal XL (EGIAUNIVXL) articulation up to 45°. Also compatible with the Endo GIA™ Ultra stapling system.



1.2.1 siūlės ilgis 45mm

Order Code	Color Code	Description	Box Qty
030450	■	Endo GIA™ universal Reticulator™ 30 – 2.0 mm	6
030451	□	Endo GIA™ universal Reticulator™ 30 – 2.5 mm	6
030452	■	Endo GIA™ universal Reticulator™ 30 – 3.5 mm	6
030453	■	Endo GIA™ universal Reticulator™ 45 – 4.8 mm Requires 15 mm trocar	6
030454	□	Endo GIA™ universal Reticulator™ 45 – 2.5 mm	6
030455	■	Endo GIA™ universal Reticulator™ 45 – 3.5 mm	6
030456	■	Endo GIA™ universal Reticulator™ 45 – 4.8 mm Requires 15 mm trocar	6
030457	□	Endo GIA™ universal Reticulator™ 60 – 2.5 mm	6
030458	■	Endo GIA™ universal Reticulator™ 60 – 3.5 mm	6
030459	■	Endo GIA™ universal Reticulator™ 60 – 4.8 mm Requires 15 mm trocar	6

ENDO GIA™ Universal



ENDO GIA™ Universal

Key Features	Key Benefits
25 firings per instrument	Reduces procedure costs, most surgeons will never need more than one instrument
22 and 45 degree SULU articulation	Can reduce the need for additional trocars to gain access to difficult surgical sites
Wide jaw opening available for 30mm and 45mm sizes as well as 60mm	Easy placement on tissue
Lock-out feature <small>[1.7 p.d Automatinis saugumo mechanizmas neleidžia iššauti panaudotos kasetės</small>	The instrument won't fire, if it has already been used. It won't fire if tissue thickness is well beyond color standards



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positive results for life™

Covidien Autosuture The ENDO GIA™ Universal Stapling System Quick Reference

One universal handle - 20 loading units



[Versatility that saves]

30, 45 AND 60MM STRAIGHT & ROTICULATOR™ LOADING UNITS, ALL WITH 6 ROWS OF STAPLES



For use in Open Surgery...
030403

For use in Endoscopic Surgery...
030449

For use in Bariatric Surgery...
EGIAUNIVXL

ENDO GIA™ UNIVERSAL STRAIGHT SULU'S



1, 2, 4 p.d. Kasetēse 6 kabučiū eilēs.

30mm	45mm	60mm
030416 (2.0)	030426 (2.0)	030412 (2.5)
030418 (2.5)	030425 (2.5)	030414 (3.5)
030419 (3.5)	030422 (3.5)	030415 (4.8)
	030423 (4.8)	

ENDO GIA™ UNIVERSAL ROTICULATOR™ SULU'S



30mm	45mm	60mm
030450 (2.0)	030453 (2.0)	030457 (2.5)
030451 (2.5)	030454 (2.5)	030458 (3.5)
030452 (3.5)	030455 (3.5)	030459 (4.8)
	030456 (4.8)	

STAPLE CHART

Staple Size Before Firing	Lengths	Color	Staple Size After Firing (typical)	Tissue Compression Range
2.0mm 	30mm, 45mm	 Grey	0.75mm 	0.75mm
2.5mm 	30mm, 45mm, 60mm	 White	1.0mm 	1.0mm
3.5mm 	30mm, 45mm, 60mm	 Blue	1.5mm 	1.5mm
4.8mm 	45mm, 60mm	 Green	2.0mm 	2.0mm

Formed staple dimensions may vary depending on tissue type, thickness, and density. Please refer to package insert for complete instructions, warnings, precautions and contraindications.



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COVIDIEN (UK)
COMMERCIAL LIMITED

154 FAREHAM ROAD
GOSPORT HAMPSHIRE
PO 13 OAS
UNITED KINGDOM (UK)

+44 (0) 1329 224226 [T]
+44 (0) 1329 224334 [F]

WWW.COVIDIEN.COM

ENDO GIA™

**UNIVERSAL
STAPLING SYSTEM**

Medtronic
Further, Together

GIA Universal



ENDO GIA™ Universal XL



+10cm

ENDO GIA™ Universal 35cm



l.1 p.d. Aparato darbinės dalies ilgis 350 mm.



- The Endo GIA™ Universal Stapling System places two triple-staggered rows
- of staples (one set of rows on the patient side and one set of rows on the specimen side) with a knife blade that simultaneously cuts between the rows.





1.5 Formuojamos siūlės ilgis pasirinktinai 45 mm arba 60 mm

- 3 different stapling lengths: 30mm, 45mm, 60mm.
- Cutting line is 4 mm shorter with 2 staples at the distal end.

10 Roticulator SULU's

30

ENDOGIA ROTICULATOR 30/2.0



ENDOGIA ROTICULATOR 30/2.5



ENDOGIA ROTICULATOR 30/3.5



45

ENDOGIA ROTICULATOR 45/2.0



ENDOGIA ROTICULATOR 45/2.5



ENDOGIA ROTICULATOR 45/3.5



ENDOGIA ROTICULATOR 45/4.8



60

ENDOGIA ROTICULATOR 60/2.5

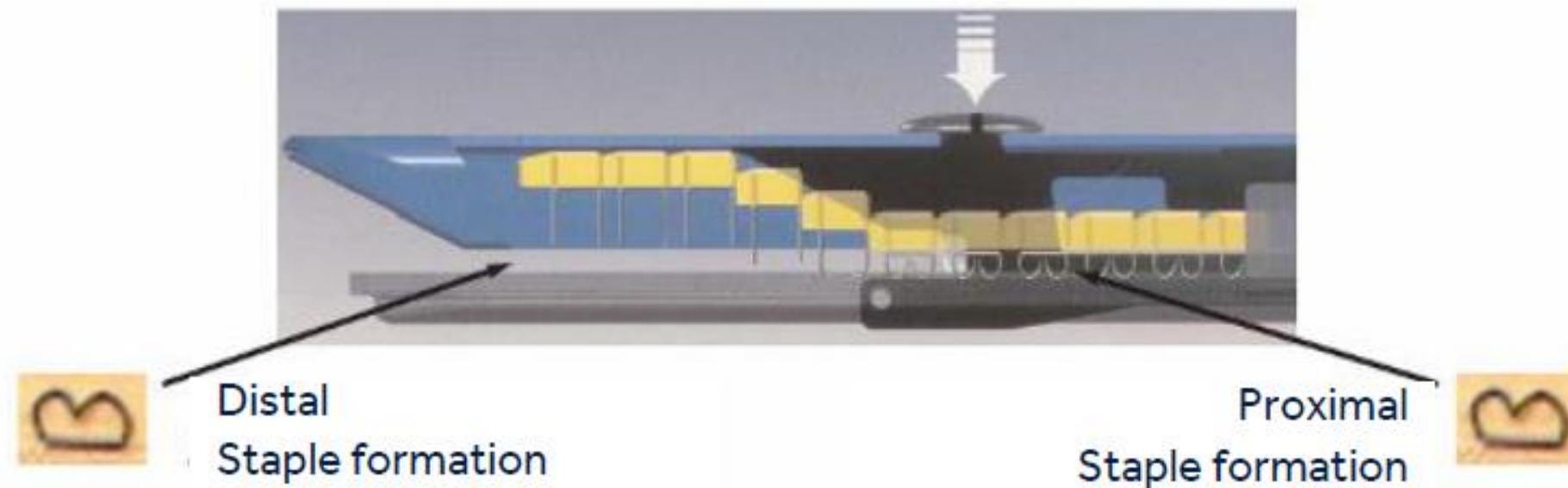


ENDOGIA ROTICULATOR 60/3.5



ENDOGIA ROTICULATOR 60/4.8





Tissue Gap control uses “I-Beam” knife bar that is attached to the anvil and cartridge. This physically pulls the anvil and cartridge together as the staple is fired, maintaining consistent compression and gap between them throughout the firing.

1.4 p.d. Suspaudimo laipsnis ypatingai aukštas ir yra vienodas visame žiočių ilgyje. Užtikrinamas tolygus kabučių suspaudimas per visą siūlės ilgį

This assures precise staple formation along the entire staple line even at the distal end of cartridge

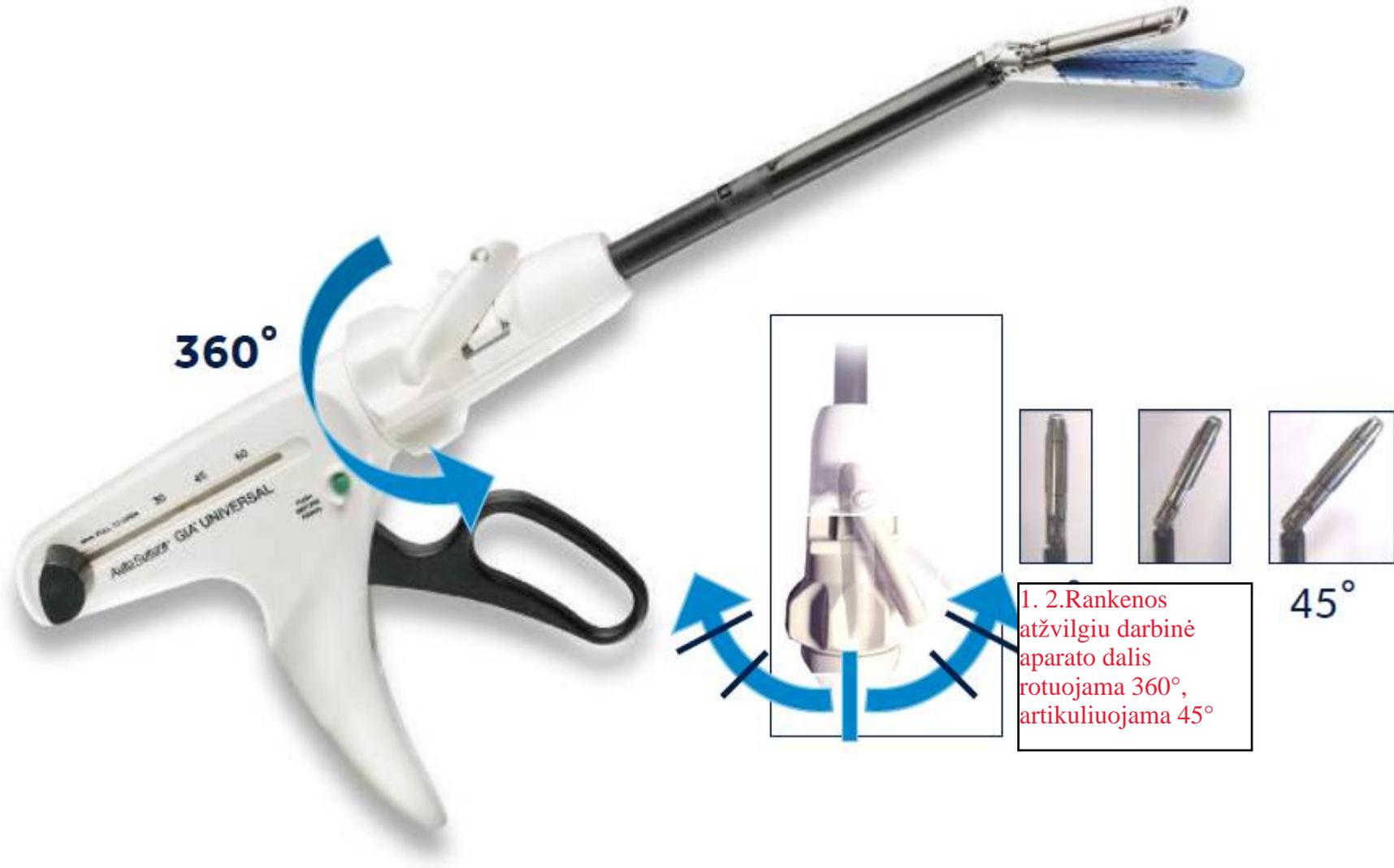
ENDO GIA™ Universal



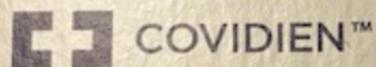
Close and open instrument multiple times before firing

1.8 p.d. Leidžiamas daugkartinis aparato uždarymas ir atidarymas prieš iššaukant.

ENDO GIA™ Universal



THANK YOU



Endo GIA™ Ultra Universal Stapler



1.10 p.d. Aparatas tinka imtinai iki 12 mm skersmens troakarams.

ENDO GIA™ REINFORCED RELOAD

WITH TRI-STAPLE™ TECHNOLOGY

PRESENTED BY
MAUDE GENICOT
MITG, SI, STAPLING TRAINER FOR EMEA

Medtronic
Further, Together

LEARNING OBJECTIVE

- Understand how the Endo GIA™ Reinforced Reload with Tri-Staple™ Technology fit the customer need
- Identify and name the main competition
- Present an In-service and product pitch without notes

ENDO GIA™ REINFORCED RELOADS WITH TRI-STAPLE™ TECHNOLOGY



Medtronic
Further, Together

STRATEGIC FIT

- European Overview Tissue Reinforcement Segment
 - The players
 - The Estimated Value
- Portfolio Fit and Gap Analysis



Endo GIA™ Reinforced Reload
with Tri-Staple™ Technology

**Reinforce With Ease,
Staple With Control***

- Provides improved hemostasis when compared to non-buttress staple lines*
- Helps to reduce tearing and potential cause of staple line failure due to weakened tissue*

The image shows a surgical stapler with a purple handle and a silver head, positioned diagonally. The background is a light blue gradient. The text is in white and dark blue.

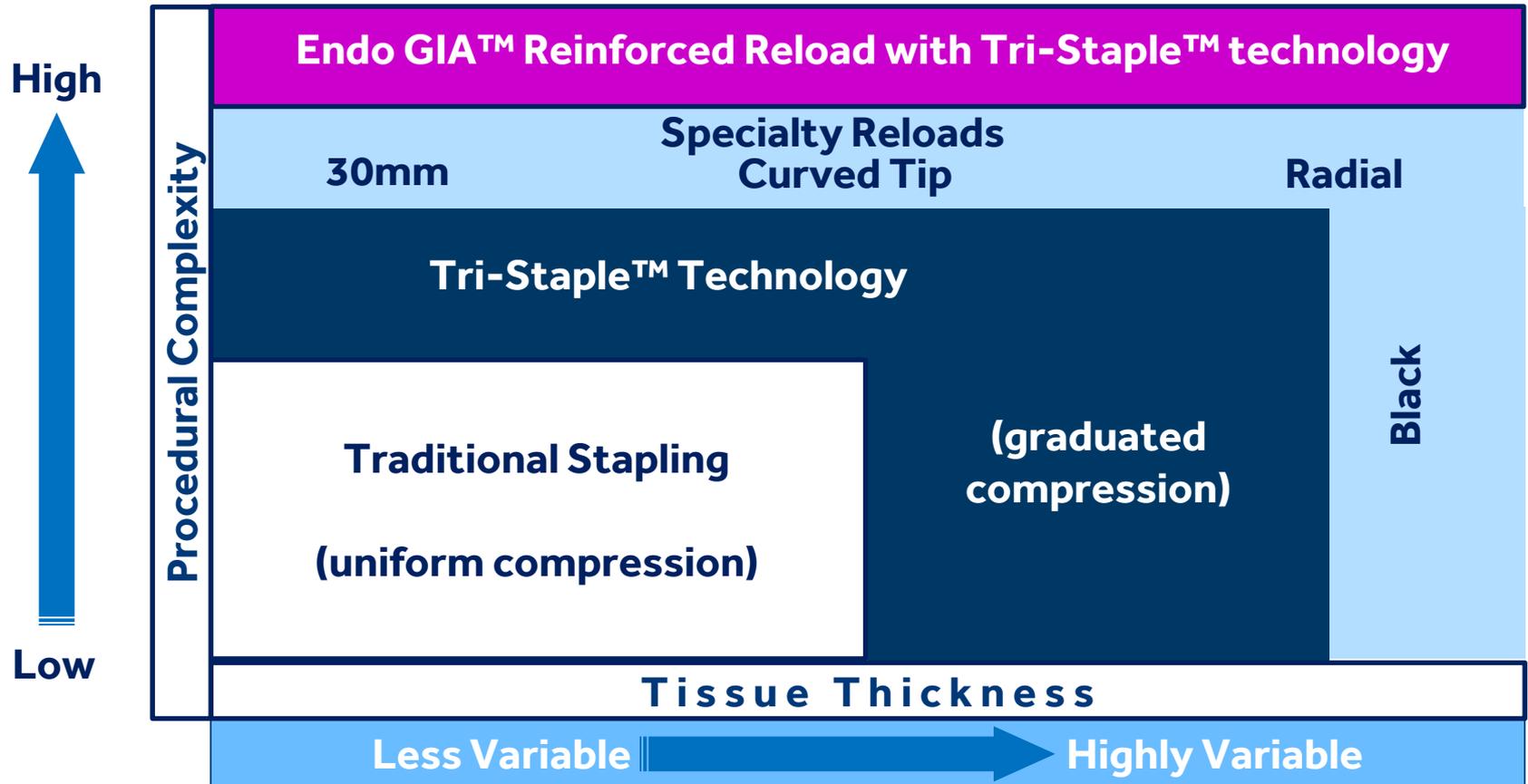
* Data source / reference see appendix – page 18

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STAPLING NEEDS MAP – PORTFOLIO GAP

Tissues that are
Unhealthy,
Prone to Leaks,
Hard to Access

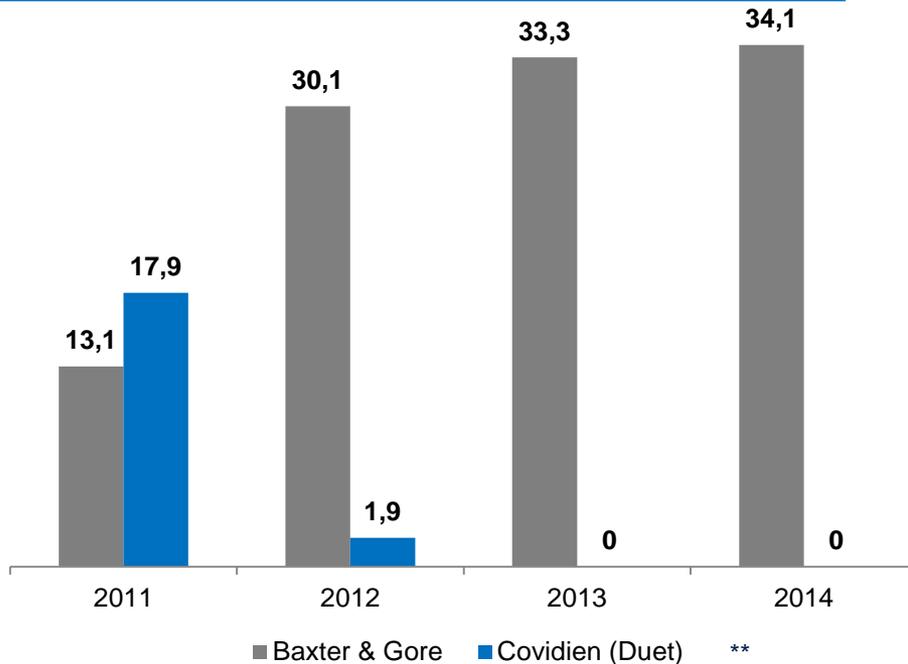
- Acute Bleedin
- Intraluminal Pressure
- Fragile Tissue
- Air Leaks



* Developed by Global Marketing – Strategic Fit
For internal use only, not for distribution

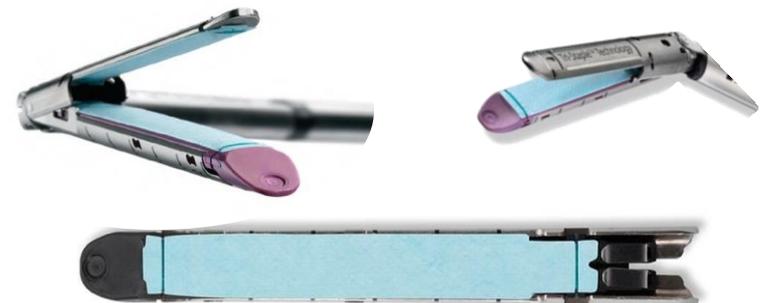
EUROPEAN OVERVIEW

Market Value Tissue Reinforcement Europe*



- Revenue includes Reload
- CAGR 2014 – 2017 = 2.5% - 5%

- In 2011 Covidien market leader in TR segment with Duet TRS™
- By 2012 Duet TRS™ disappeared from the market
- Two companies dominated TR segment as of 2012 in Europe, minimal impact "others"
 - Synovis Life Technologies, Inc. / Baxter International Inc.
 - Gore Medical
 - Others are Gunze LTD & Cook® Medical



* MRG: Millennium Research Group Feb-2014

** Cognos data

COMMERCIALIZATION STRATEGY

Endo GIA™ Reinforced Reload with Tri-Staple™ technology;
will enhance our “Specialty” reloads offering and support our strategy;
Advanced Solutions for All Tissue Management Solutions



Radial Reload:
Access & visibility in LAR procedures



Curved Tip Reload:
Maneuverability



Black Reload:
Thick tissue performance



30mm Reload:
Access in tight spaces



Reinforced Reload:
Supporting fragile or high-risk tissue



POSITIONING & VALUE PROPOSITION

“ The Reinforcement is Preloaded – The Confidence is Built In”

What does that mean?

- Ease of Use – reduced time & product waste with NO extra steps*
- Clinically validated material that delivers improved clinical performance and meets customer needs*
- Benefits of Tri-Staple™ technology

3.1 p.d skirta virškinimo trakto chirurginėms procedūroms, kurias atliekant reikalinga sustiprinti kabutėmis sukabintą siūlę

TARGET AUDIENCE	Bariatric, Thoracic, HPB, Colorectal (Reinforcement Believers)
COMPETITIVE FRAME	Reinforced Reload with Tri-Staple™ Technology is the only endoscopic stapler with preloaded tissue reinforcement
UNIQUE SELLING PROPOSITION	improved ease of use to reduce time and wastage in the OR. The preloaded material combined with Tri-Staple™ technology improves hemostasis, pneumostasis and burst pressure*
REASONS TO BELIEVE	<ul style="list-style-type: none"> ▪ Preloaded reinforcement material ▪ Improved hemostasis, pneumostasis, burst pressure (per bench top)*

* Data source / reference see appendix – page 18

SEGMENTATION & TARGETING

Target Specialty	Target Procedural Applications	Market Growth Opportunities *
Bariatric Surgeons	<ul style="list-style-type: none">▪ Sleeve Gastrectomy▪ Gastric Bypass▪ Mini - Bypass	<ul style="list-style-type: none">▪ Sleeve Gastrectomy growing with 10% annually.▪ Market potential FY-15 = \$21M
Thoracic Surgeons	<ul style="list-style-type: none">▪ Wedge Resection▪ Lobectomy▪ Lung Volume Reduction Surgery (LVRS)	<ul style="list-style-type: none">▪ VATS lobectomy growth at 39% annually▪ Market potential FY-15 = \$10.5M▪ LVRS, new area with high potential for TS
General / HPB Surgeons	<ul style="list-style-type: none">▪ Distal Pancreatectomy▪ Gastrectomy	<ul style="list-style-type: none">▪ New EBM supporting TS▪ Market potential FY-15 = \$3.5M

**Per GMA Data, 9/27 Update; Procedural-level Tissue Reinforcement Market size based on US & Major EU markets (WW market size = \$142M)*

SEGMENTATION & TARGETING

1

Surgeons that currently use our Endo Staplers (Tri-Staple™ technology or Endo GIA™ Universal) combined with competitive reinforcement material. This is the group of believers that see the benefit of tissue reinforcement. They likely will see the added value in the preloaded design.

A. Surgeons that prefer a synthetic material (SeamGuard™* from Gore Medical)

B. Surgeons that prefer a biologic material (former Synovis Life Technologies/Baxter International Inc.)

2

Surgeons that currently not using reinforcement material but a looking for the added security and or have a high concern for bleeding or air-leaks

A. Surgeons using Covidien Endo stapling

B. Surgeons using Competitive stapling

3

Surgeons that currently using Competitive Stapling that are looking to change their total stapling portfolio in favor of Tri-Staple™ technology + Specialty reloads offering

A. Surgeons using Competitive stapling + tissue reinforcement

B. Surgeons using Competitive stapling

PRODUCT OFFERING - CODES

- We will have 4 codes with the Reinforced material
- Only available in 45 and 60 mm length
- Only available on Tri-Staple™ reloads
- One master carton contains 6 reloads
- Connectable & interchangeable to the different Endo GIA™ handles and Power
 - Endo GIA™ Ultra Universal (Short, STND, XL)
 - Endo GIA™ Universal (030403, 030449, EGIAUNIVXL)
 - iDrive™ Ultra Reusable Powered Handle

TWO PURPLE RELOADS:

EGIATRS45AMT	45mm Purple Articulating Endo GIA™ Reinforced Reload with Tri-Staple™ Technology
EGIATRS60AMT	60mm Purple Articulating Endo GIA™ Reinforced Reload with Tri-Staple™ Technology

TWO BLACK RELOADS:

EGIATRS45AXT*	45mm Black Articulating Endo GIA™ Reinforced Reload with Tri-Staple™ Technology
EGIATRS60AXT*	60mm Black Articulating Endo GIA™ Reinforced Reload with Tri-Staple™ Technology

**All Black (AXT) Reloads require a 15mm port*

COMPETITIVE LANDSCAPE*

Synthetics

GUNZE Limited, Neoveil™ Tubes

- Synthetic, absorbable & absorbent material
- Absorbed in approx. 15 weeks 3.4 4. Stiprinimo medžiagos absorbcijos trukmė 15 savaičių
- Thickness: 80 g/m² basis weight
- Sleeves ("socks") held by non-absorbable polyester braided suture
- Increases thickness of tissue by up to 0.5mm
- Used predominantly in thoracic
- Limited presence in Europe (distribution channel)
- Also offer sheet type to adhere to the surface of the lung

Gore Medical, SeamGuard® Bioabsorbable Staple Line Reinforcement

- Synthetic, absorbable & absorbent material
- Absorbed in approx. 24-28 weeks
- Thickness: 91 g/m² basis weight
- Sleeves ("socks") held by non-absorbable polyester braided suture
- Increases thickness of tissue by up to 0.5mm
- Used predominantly in bariatrics
- Market leader in Europe and Worldwide
- Also offer a circular option that attaches via sticky tabs on both anvil/cartridge and tubes for open GIA.

Biologics

Baxter International Inc, Peri-Strips Dry® & Veritas®

- Biologic tissue prepared from bovine pericardium (U.S. cattle)
- Permanent, Transient/Remodelable
- Strips attached by gel ("glue")
- Increases thickness of tissue by 0.5mm to 1.5mm
- Used in bariatrics and thoracics
- Number #2 market share in Europe
- Also offer a circular option and tubes for open GIA™.

Cook® Medical, COOK® Biodesign®

- Non-dermis, non cross-linked biologic graft prepared from porcine
- Transient/ Remodelable
- Comes as pre-coated strips with water-soluble adhesive
- Offers a thin, uniform surface (~.5 mm)
- Used in bariatrics and thoracics
- Very small player
- Available in sizes for most EES and COV Endo Staplers

* Data source; Market Intelligence Covidien US

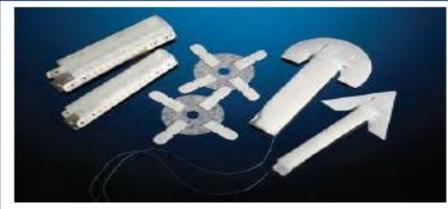
MATERIAL DIFFERENCES

SYNTHETIC

- Synthetic reinforcement materials do not contain any animal derivatives in the material composition.
- They represent a man-made fiber and have an absorbable profile.
- Manufacturers of synthetic materials claim less risk of post operative reaction due to no foreign body left permanently behind.

Two synthetic reinforcement manufacturers:

1. Gore Medical, SeamGuard™*
2. GUNZE Limited, Neoveil™* Tubes



1



2

BIOLOGIC / PERMANENT

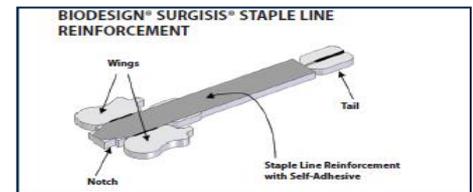
- Biologic materials are derived from an animal source.
- These materials are strong, soft and allow tissue ingrowth. While remodelable, they are permanent.

Two biologic reinforcement manufacturers:

- Permanent
3. Baxter International Inc, Peri-Strips Dry™*
- Transient / temporary
4. COOK® Medical, COOK® Biodesign™*
 5. Baxter International Inc, Peri-Strips Dry™* with Veritas™*



3



4

PRODUCT DESCRIPTION & DESIGN

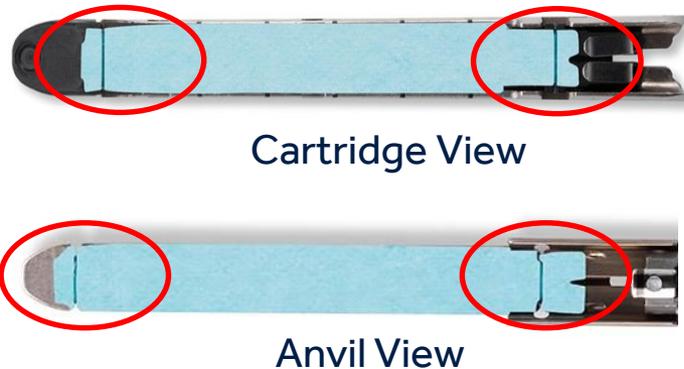
Tissue
Reinforcement
Material



- Made from Neoveil™* sheets from GUNZE Medical
- **Synthetic** 3.3 p.d stiprinimo medžiaga – sintetinė
- PGA – Polyglycole Acid

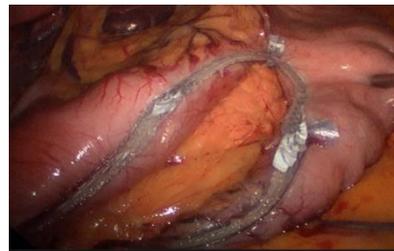
3.5 p.d stiprinimo medžiaga pritvirtinta prie abiejų siuvimo aparato žiočių

Pre-loaded
Design



- Sheets are fixed – strapped by Maxon™ anchoring sutures
- Degradable
- Sutures release after complete firing

Versus
Duet TRS™
Reloads



- Soft and pliable
- Absorbent
- Tri-Staple™ technology

COMPETITIVE COMPARISON*

	Reinforced Reload with Tri-Staple™ Technology	GUNZE Neoveil™ Tubes	Baxter Peri-Strips®	GORE® SEAMGUARD®	COOK® Biodesign®
Preloaded	✓				
Synthetic	✓	✓		✓	
Absorbable	✓	✓		✓	
Absorbent	✓	✓	✓	✓	✓
Available in 45 mm & 60 mm	✓	✓	✓	✓	✓
Added thickness <0.4 mm	✓				
No extra "wings"	✓		✓		✓
No strings	✓		✓		✓
No gel required	✓	✓		✓	✓

* Product Information Kit P14008 - 2014

QUESTIONS?



THANK YOU