









ENDO GIA™ Universal

Key Features	Key Benefits
60mm Articulating loading units	Allows the surgeon to maintain similar stapling techniques as open surgery by using 60mm staple lines
Universal Handle for all loading units	Helps reduce procedure costs; surgeons may not need a second instrument in a procedure
Six rows of staples with all sizes	Staple line security
New sharp and sterile knife with each reload 1.3, 2.3, 3.3, 4.3 ir 5.3 Kiekvienoje naujoje kasetėje integruotas peilis.	Never dull from cutting through staple lines, and no risk of cross contamination
4.8 mm staples	Hemostasis in thick tissue
Tissue Gap Control	Ensures precise staple formation along the entire staple line

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

1.5 p., 1.6 p., 2.5 p. atidarytų ir uždarytų kabučių aukštis					
Vascular/Medium Tan Reloads	OPEN	2.0mm (.079")	2.5mm (.098")		
	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")

4.5, 5.5 atidarytų kabučių aukštis

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 reloadsHemostatic 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 thicknessesReduced force required to compress tissue to desired thicknessFacilitates 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 tissueEnhanced clamping forceImproved 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	<ul style="list-style-type: none">Ensures sharp blade for each transection, minimizing tissue tearingEliminates 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


1.4, 2.4, 4.4, 5.4 pirkimo dalis

4 kabutės distalinėje dalyje


STAPLING SOLUTIONS

Product Reference

Endo GIA™ Ultra Universal Handle

MEDTRONIC				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				ETHICON			
Standard Reload Length	Device	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		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
60 mm		SIG45AXT	Black	4 mm, 4.5 mm, 5 mm	Extra-Thick	—	—
		—	—	—	—	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	2 mm, 2.5 mm, 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	—	—
		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	—	—

1.1 pirkimo dalis

2.1 ir 4.1 pirkimo dalis

5.1 pirkimo dalis

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

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 03/2019-US15059112-DWF #28357742

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4 BROADER RANGE OF APPLICATIONS

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

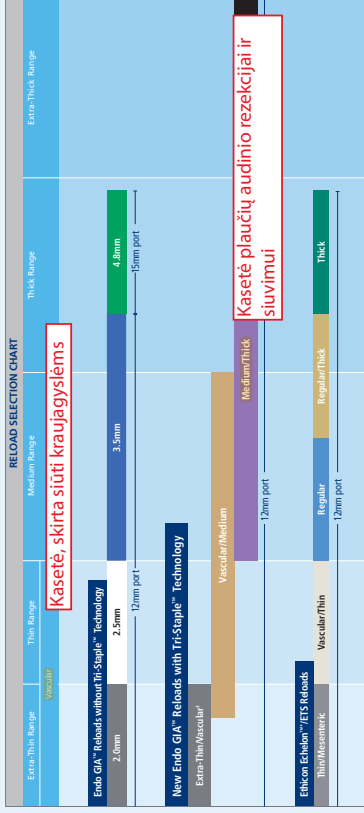
EXTRA-THICK RELOADS



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

5 SIMPLIFIED CARTRIDGE SELECTION

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



- **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.

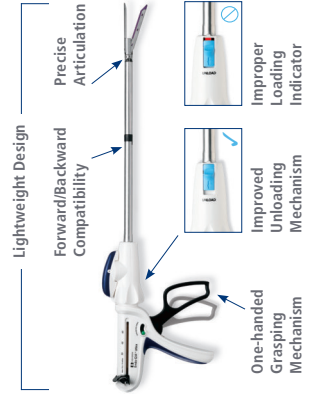
* Extra-thick black reload uses a 15mm trocar.
 † Extra-Thin/Vascular reload contains three rows of 2.0mm staples (non-varied-height) and contains all of the other features and benefits of an Endo GIA™ Reload with Tri-Staple™ Technology.
 ‡ Trademark of its respective owner.



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
- **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™ Rotator™ reloads



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





Tri-Staple™ Technology

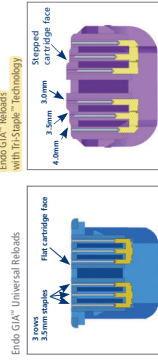
Covidien's Tri-Staple™ Technology provides Endo GIA™ Reloads with outstanding performance across a broader range of tissues and applications, thereby simplifying the cartridge selection process.

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

1.5, 2.5, 4.5, 5.5 p. Į abi puses nuo
petlio išdėstyta po tris eilės skirtingo
aukščio kabučių

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

CARTRIDGE CROSS SECTIONS

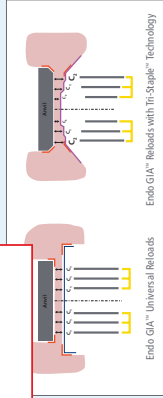


Kasetėje integruotas
pelis, Kasetėje 6 eilės
kabučių

1 OUTSTANDING STAPLE PERFORMANCE

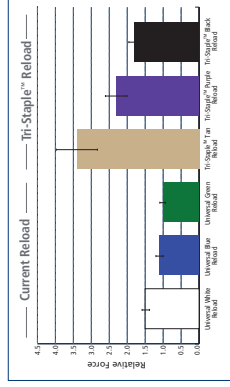
- **Consistent hemostatic performance** across a broader indicated tissue range
- **Variable Tissue Compression:** Stepped cartridge face applies increasing compression toward the cut line, enabling the optimal tissue thickness for each staple height
- **Increased Burst Pressure:** In vitro and in vivo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

PROFILE



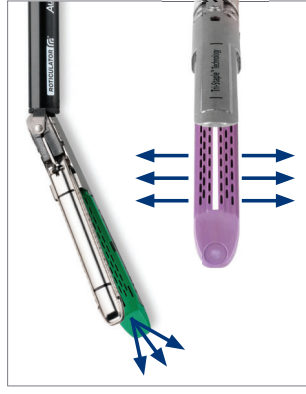
2 OUTSTANDING TISSUE COMPRESSION AND CONTROL

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



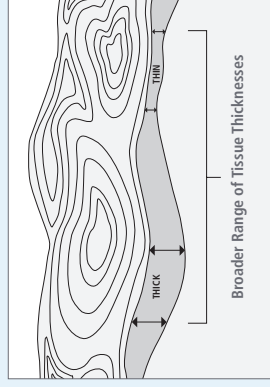
Relative amount of force applied during clamping for 60mm staplers with 2 pads of red foam being normalized for Universal™ green (n=5)

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

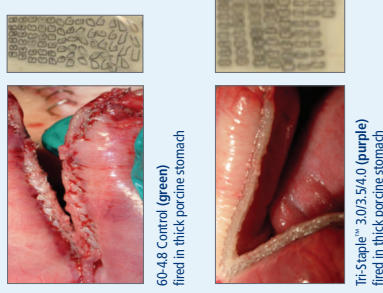


3 BROADER RANGE OF TISSUES

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



60-48 Control (green)
fired in thick porcine stomach

Tri-Staple™ 30/3.5/4.0 (purple)
fired in thick porcine stomach

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



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555 LONG WHARF DRIVE
NEW HAVEN, CT
06511

WWW.TRISTAPLE.COM

1-800-722-8772

ENDO GIA™ Universal

