

EEA[™] Circular Stapler with Tri-Staple[™] Technology



Date Presenter





Engineering the extraordinary

Introduction

Key Improvements

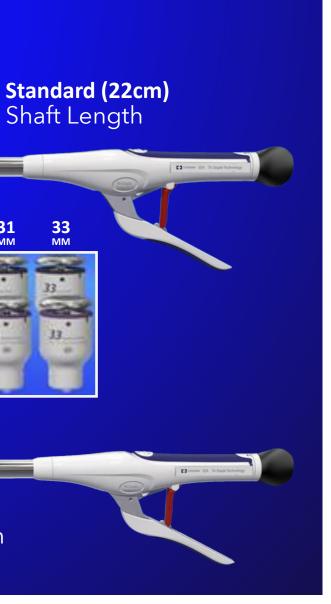
Tri-Staple™ Technology

- 3 rows of varied height staples
- Sloped cartridge face

PODOO

Available in: 31 MM 28 21 25 MM MM[†] мм **Extra Thick** (Black) **Medium/Thick** (Purple) XL (35cm) Shaft Length

†21 mm staplers are not cleared for sale in the US market.



Design and performance

Design Improvements

- Sloped cartridge face²
- Third row of varied height staples while maintaining the same inner and outer lumen diameters as circular staplers with DST Series[™] technology²
- 62 percent more staples compared to two-row staplers^{7,†}
- New anvil and tilt spring design
- The EEATM circular stapler with Tri-StapleTM technology provides louder audible feedback during unclamping compared to EthiconTM* circular staplers and EEATM circular
 staplers with DST SeriesTM technology.^{8,‡,ΩΩ}
- The EEA[™] circular stapler with Tri-Staple[™] technology provides 60 percent lower firing force compared to Ethicon[™]* circular staplers.^{8,§,ΩΩ}

Performance Improvements

- Generates less stress on tissue during compression and clamping vs. two-row staplers $5,\Omega,\Omega\Omega$
- 20% greater security at the staple line vs. Echelon Circular™* Powered Stapler^{9,††,ΩΩ}
- 140% greater perfusion into the staple line than Echelon Circular[™]* Powered Stapler^{6,‡‡}
- Consistent staple performance over a broad range of tissue thickness vs. two-row^{2,3,4,§§}

†Compared to Ethicon™*, Touchstone™*, Chex™*, Panther™*, and Medtronic two-row staplers

[‡]Based on measurement of sound intensity when firing TRIEEA28XT, TRIEEA33XT, EEA28, and EEA33 in foam (n = 15; p < 0.001). Ethicon™* CDH circular staplers do not provide audible feedback during unclamping. Based on comparison of TRIEEA28MT (n = 15) and CDH29A (n = 14) when firing into foam. P < 0.001.

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ΩFinite element analysis (FEA) was used to determine the strain profiles of three circular staplers during clamp-up. The EEA[™] circular stapler with Tri-Staple[™] technology demonstrated a graduated compression profile upon clamping. Compared to Ethicon[™]* CDH circular staplers and EEA[™] circular staplers with DST Series[™] technology.

 \pm Based on tensile strength testing comparing TRIEEA31XT and CDH31P (n = 10, P = 0.002).

‡‡Preclinical results may not correlate with clinical performance in humans. Compared to the Ethicon[™] Echelon Circular[™] Powered Stapler. Based on staple-line vascularity analysis using MicroCT in an in vivo canine model (CDH31P: n = 13; TRIEEA31XT: n = 15. P = 0.007).

§§Compared to EEA™ circular staplers with DST Series™ technology.

 $\Omega\Omega$ Bench test results may not necessarily be indicative of clinical performance.

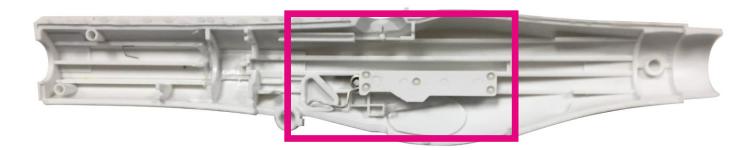


Smooth transition between trocar and anvil





The EEATM Circular Stapler with Tri-StapleTM technology provides louder audible feedback^{8,†} during unclamping compared to Ethicon^{TM*} CDH circular staplers and EEATM circular staplers with DST SeriesTM technology



EEA[™] Circular Stapler with Tri-Staple[™] Technology



EEA[™] Circular Stapler with DST Series[™] Technology

†Based on measurement of sound intensity when firing TRIEEA28XT, TRIEEA33XT, EEA28, and EEA33 in foam (n = 15; p < 0.001). Ethicon^{™*} CDH circular staplers do not provide audible feedback during unclamping. Bench test results may not necessarily be indicative of clinical performance



Message Platform & Claims

Message Platform

CONFIDENCE IN THI	E CIRCULAR STAPLE LINE
Staple™ technology ¹¹ , a	er with Tri-Staple™ technology is the only circular stapler that offers t and 20% greater security at the staple line vs. Echelon Circular™* Pov < compared to two-row circular staplers ^{8,‡} surgeons can feel confiden
Staple Line Security	EEA™ circular stapler with Tri-Staple™ technology provides 20% g staple line vs. Echelon Circular™* Powered Stapler. ^{9,†}
Tri-Staple™ Technology	EEA [™] circular stapler with Tri-Staple [™] technology offers all the be proven technology, less stress on tissue during compression and cl 140% greater perfusion into the staple line ^{6,Ω} and consistent staple broad range of tissue thicknesses as compared to two-row circular
Louder Audible Feedback	The EEA [™] circular stapler with Tri-Staple [™] technology provides lo during unclamping compared to Ethicon [™] * CDH circular staplers a staplers with DST Series [™] technology. ^{8,‡}
	The EEA™ circular staple Staple™ technology ¹¹ , a louder audible feedback line. Staple Line Security Tri-Staple™ Technology Louder Audible

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§Finite element analysis (FEA) was used to determine the strain profiles of three circular staplers during clamp-up. The EEA™ circular stapler with Tri-Staple™ technology demonstrated a graduated compression profile upon clamping. Compared to Ethicon™ CDH circular staplers and EEA™ circular staplers with DST Series™ technology.

ΩPreclinical results may not correlate with clinical performance in humans. Compared to the Ethicon Echelon Circular[™] Powered Stapler. Based on staple-line vascularity analysis using MicroCT in an in vivo canine model (CDH31P: n = 13; TRIEEA31XT: n = 15. P = 0.007).

††Compared to EEA™ circular staplers with DST Series™ technology.

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s the benefits of Triowered Stapler.^{9,†} With ent in their circular staple

greater security at the

penefits expected of our clamping^{5,§,‡‡} provides le performance over a ar staplers.^{2,3,4,††,‡‡}

louder audible feedback s and EEA™ circular

CLINICAL CONFIDENCE. **BECAUSE IT'S** PROVEN TECHNOLOGY.

The advantages of the EEA[™] circular stapler with Tri-Staple[™] technology, compared to two-row circular staplers.

†Preclinical results may not correlate with clinical performance in humans. Compared to the Ethicon Echelon Circular™* Powered Stapler. Based on staple-line vascularity analysis using MicroCT in an in vivo canine model (CDH31P: n = 13; TRIEEA31XT: n = 15. P = 0.007).

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§Compared to EEA[™] circular staplers with DST Series[™] technology.

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GREATER PERFUSION Into the staple line^{6,†}

LESS STRESS

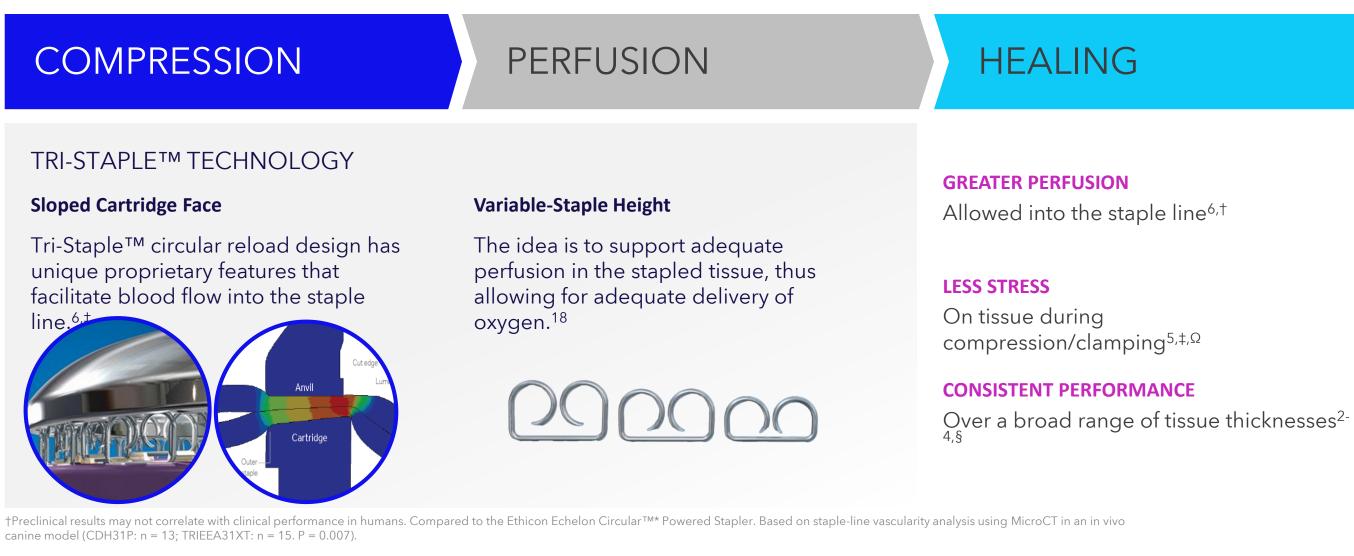
CONSISTENT STAPLE PERFORMANCE In variable tissue thicknesses^{2,3,4,§, Ω}



during compression and clamping $^{5,\ddagger,\Omega}$

Next Generation Circular Portfolio

Innovation Path



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§Compared to EEA™ circular staplers with DST Series™ technology.

 Ω Bench test results may not necessarily be indicative of clinical performance.



EEA[™] Tri-Staple[™] Technology 80% Fewer Leaks^{20,†}

EEATM Tri-StapleTM Technology provides:

- 3 rows of varied height staples vs. 2 rows
- 63 percent more staples with the same lumen diameter^{19,‡}
- The EEA[™] circular stapler with Tri-Staple[™] technology provides louder audible feedback during unclamping compared to Ethicon[™]* CDH circular staplers and EEA[™] circular staplers with DST Series[™] technology.^{8,§}
- The EEA[™] circular stapler with Tri-Staple[™] technology provides 60 percent lower firing force compared to Ethicon[™]* circular staplers.^{8,Ω}
- The EEA[™] circular stapler with Tri-Staple[™] technology generates less stress on tissue during compression and clamping.^{5, ††,Ω,ΩΩ}

†Preclinical results may not correlate with clinical performance in humans. Based on leak testing in an in vivo canine model comparing TRIEEA25XT to Ethicon™* CDH25P (n = 9; P = 0.023), where 50 mm Hg represented a maximum expected colonic pressure.

‡Compared to EEA™ circular staplers with DST Series™ technology. Preclinical results may not correlate with clinical performance in humans. 10 out of 11 Surgeons surveyed agreed.

§Based on measurement of sound intensity when firing TRIEEA28XT, TRIEEA33XT, EEA28, and EEA33 in foam (n = 15; p < 0.001). Ethicon^{™*} CDH circular staplers do not provide audible feedback during unclamping.

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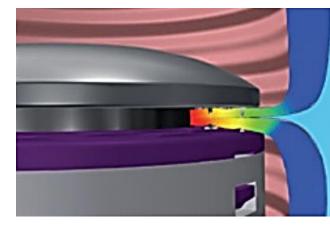
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 $\$ Compared to EEATM circular staplers with DST Series ${}^{\rm TM}$ technology.

 $\Omega\Omega Bench \, test \, results \, may \, not \, necessarily be indicative of clinical performance.$

SLOPED CARTRIDGE FACE



High Strain

FLAT CARTRIDGE FACE





LESS STRESS

On tissue during compression and clamping $5, \dagger \dagger, \Omega \Omega$



GREATER PERFUSION Allowed into the staple line^{6, ‡‡}



CONSISTENT PERFORMANCE

Over a broad range of tissue thicknesses^{2-4,§§,ΩΩ}





Product In-Service & Troubleshooting

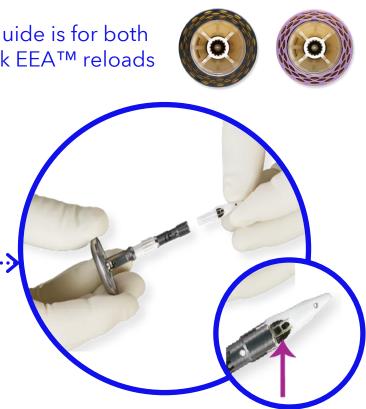
DEMONSTRATION: In-Service Steps† Step 1 - Detach

This in-service guide is for both purple and black EEA™ reloads



Detach the yellow shipping wedge.

Remove anvil and trocar tip(s).



If the white trocar accessory is desired, it can be attached to the hollow shaft on Tilt-Top™ anvil/central rod assembly and removed after usage by depressing the black release button.

†Always refer to the Instructions For Use for complete instructions.

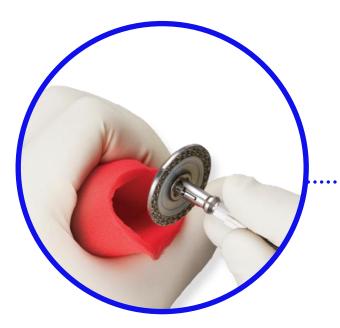
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DEMONSTRATION: In-Service Steps†

Step 2 - Set-up

This in-service guide is for both purple and black EEA™ reloads

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Insert anvil.



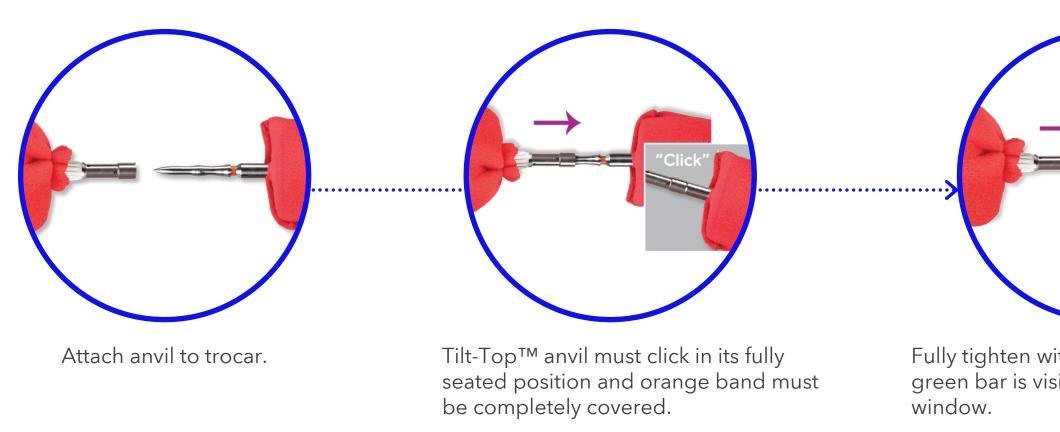
Tighten the purse-string suture around the purse-string notch. To avoid excessive tissue within the closed anvil and cartridge, secure purse-string sutures no more than 2.5 mm from the cut edge of the tissue. Insert the shaft into the closed lumen and extend the trocar until the tissue is pierced and the instrument shaft is fully extended. Orange band must be fully visible.

†Always refer to the Instructions For Use for complete instructions.



DEMONSTRATION: In-Service Steps† Step 3 - Close

This in-service guide is for both purple and black EEA™ reloads



†Always refer to the Instructions For Use for complete instructions.



Fully tighten with twist lever until the green bar is visible in the indicator

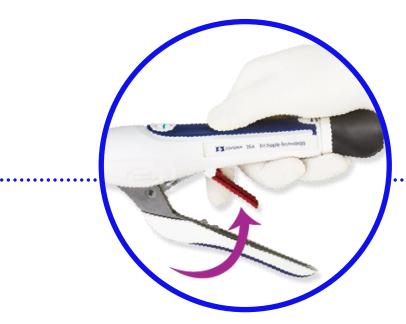


DEMONSTRATION: In-Service Steps†

Step 4 - Fire

This in-service guide is for both purple and black EEA™ reloads





Ready to fire indicator - green bar must be visible in the indicator window before releasing the safety lever and firing. This indicates that the stapler is ready to be fired. Remove red safety lever. Red safety lever will only release when the green bar is visible. "Click" "Crunch"

Handle must be fully squeezed, until it comes in contact with the instrument body.

†Always refer to the Instructions For Use for complete instructions.





DEMONSTRATION: In-Service Steps† Step 5 - Open

This in-service guide is for both purple and black EEA™ reloads





Red safety needs to be reset for proper opening.

IMPORTANT: To ensure proper staple formation the handle should only be squeezed once.

†Always refer to the Instructions For Use for complete instructions.

Rotate twist lever two full turns counterclockwise, stopping once an audible click is heard. Gently remove the instrument by pulling it straight out of the new anastomosis. Do not twist as the instrument is removed.

IMPORTANT: Relieve any tension by pushing the instrument slightly forward and then pulling straight out. Inspect tissue specimens.

