

# AEON<sup>™</sup> ENDOSTAPLER

INNOVATING MINIMALLY INVASIVE SURGERY WITH S3 ENGINEERING<sup>™</sup>

MADE IN USA





**Superior staple lines** 



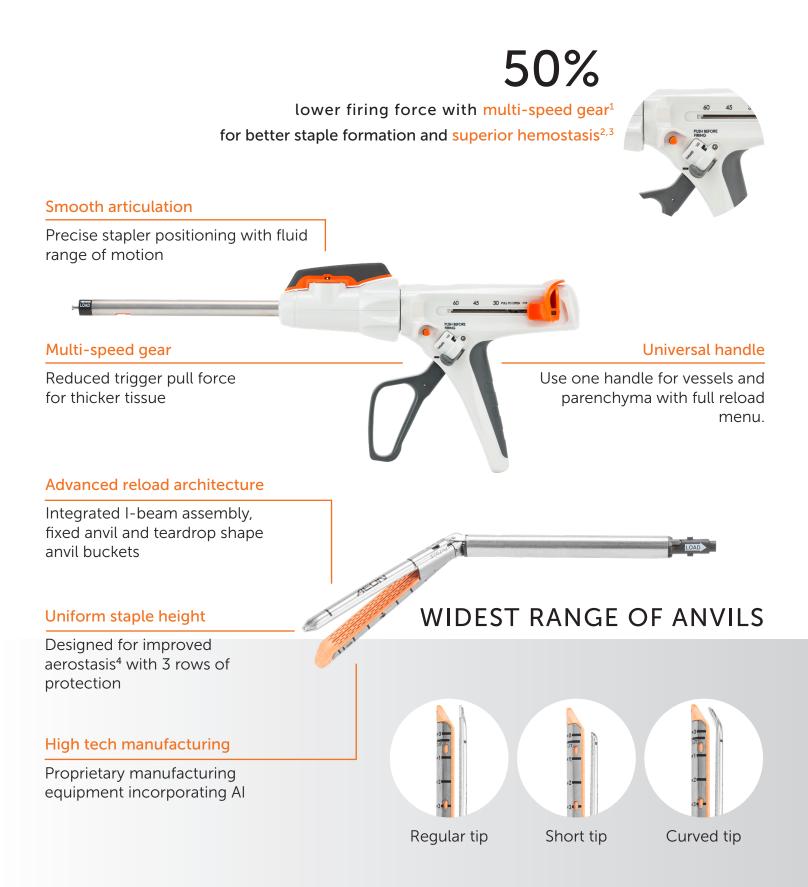
Smooth articulation



Multi-speed gear

**AEON**<sup>™</sup> WITH S3 ENGINEERING<sup>™</sup>

Superior staple lines. Smooth articulation. Multi-speed gear.



## **Clinical Evidence**

#### 80 consecutive thoracic cases

performed in prospective clincial study including VATS wedge, VATS lobectomy, open wedge, and open lobectomy



#### Use of a New Stapling Device in General Thoracic Surgery

Kristof Katona MD, Alexandru Has MD, Joana Grups MD, Pawel J. Leskow MD, André E. Dutły MD Division of Thoracic Surgery, Kantonsspital St. Gallen, Switzerland

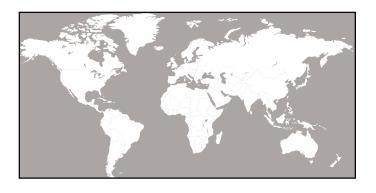
RATIONALE	METHODS		RES	RESULTS		CONCLUSIONS	
Stapling devices are used extensively for various thoracic surgeries. These multi- purpose tools must be safe, easy to use, and provide value to the hospital. A new stapler, AEON Endostapler, has previously been tested and proven as safe and effective for bariatric surgery. The stapler was also found to have improved hemostasis in a randomized, multi-center study. We wanted to test the safety and efficacy of this stapler in our general thoracic surgery practice.	A prospective study was conducted between March and September 2021 with 80 consecutive thoracic cases in which staplers were used by two surgeons at Kantonspital St. Gallen. Ethics approval and patient consent was obtained for this study. Stapler usage data, intraoperative outcomes, and 30-day post-operative outcomes were evaluated.		includec Procedu thoraco: VATS lobe handles reloads misfire o observe add a su air leak. operativ average days, an	Eighty patients (42 male, 38 female) were included. Mean patient age was 64.8 years. Procedures included video-assisted thoracoscopic surgery (VATS) wedge (n=29), VATS lobectomy (n=24), open wedge (n=8), and open lobectomy (n=19). A total of 81 handles (55 short, 26 medium) and 454 reloads were successfully deployed, and no misfire occurred. No staple line bleeding was observed. In one case the surgeon decided to add a suture on the staple line to prevent an air leak. No other intraoperative or post- operative complications were detected. On average, the chest tube was removed after 2.1 days, and the length of stay in hospital was 3.8 days.		The new stapler AEON from Lexington Medical appears to be safe in general thoracic surgery and presents a new cost-effective option. The devices have several advantages over previously used or tested devices, namely the option to change gears to facilitate dissection of thicker structures. Another advantage was the fact that staples that are not within the tissue remain in the reload – meaning they do not soil the surgical site.	
			REFERENCES 1. Landreneau, J. et al. (2019). Use of Alternative, Cost-				
	Reload usage		onsecutive thoracic procedures TS lobectomy Open wedge		Open lobectomy	Effective Laparoscopic Stapler Reload Cartridges in	
	30mm/1.0mm White	VATS wedge VA	8	Open wedge	Open lobectomy	Bariatric Surgery: A Prospective, Two-Center Pilot. Society	
	45mm/1.0mm White	5	67	â	58	of American Gastrointestinal and Endoscopic Surgeons, Baltimore, MD (US).	
	60mm/1.0mm White	0	1	3	2	<ol> <li>Redmann, J. et al. (2020). Improving Hemostasis in Sle</li> </ol>	
	45mm/1.5mm Orange	20	19	2	11	Gastrectomy with Alternative Stapler, Journal of the	
	60mm/1.5mm Orange	77	83	20	50	Society of Laparoscopic & Robotic Surgeons. 24 (4)	
	45mm/1.8mm Purple	5	0	0	1	https://pubmed.ncbi.nlm.nih.gov/33447003/	
and the second	60mm/1.8mm Purple	1	4	3	5		
	60mm/2.2mm Black	2	0	4	1		
FIGURE 1. AEON 30mm White Curved Tip Reload							
		www.	kssg.ch				

### Advantages over prior devices

with no stapler misfires and no staple line bleeding observed

### Clinical use in 28 countries and growing

Ask us about our Thoracic Data Registry to learn how thoracic surgeons are using AEON<sup>™</sup>



## Surgeon Testimonial



## Andre Dutly, M.D.

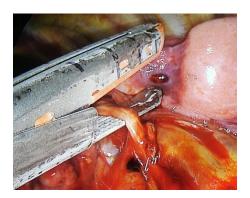
Chief Thoracic Surgeon, Kantonsspital St. Gallen, St. Gallen, Switzerland

"In my experience, you get the **whole package** with Lexington Medical, proven by **high quality products and responsiveness to surgeons' needs**. The AEON Endostapler has performed very well in nearly 200 thoracic surgeries - including complex lobectomies and segmentectomies - and when in my hands it **undeniably feels like a well-engineered product**. Recent findings from a prospective clinical trial are encouraging as the study evaluated the safety and efficacy of the stapler in our general thoracic surgery practice.

In addition, I prefer AEON's unique features including the dual firing gear for drier staple lines, smooth articulation for precise positioning and **short tip anvil for better access in tight spaces** and to avoid injury to critical structures. The company has proven itself time and time again that they listen to surgeons, and are **committed to surgical stapling releasing new, impressive innovations at record speed**."



## **Clinical Applications**

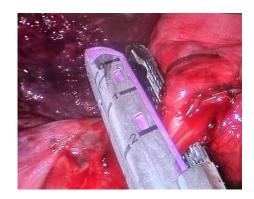


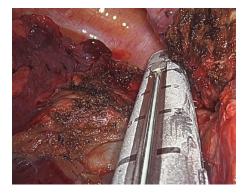
### Segmentectomy

using AEON 30mm Orange Curved Tip Reload on segmental bronchus.

### Lobectomy

using AEON 30mm Curved Tip Purple Reload on lobar bronchus.



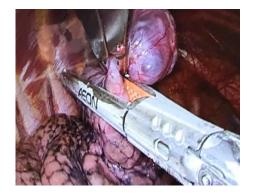


## Pneumonectomy

using AEON 45mm White Reload on vessels.

## Lung Volume Reduction (LVRS)

using AEON 60mm Orange Reload on parenchymal emphysema.



## **Complete Thoracic Solution**

#### 30 unique reloads

Whether for bronchus, vessel, or parenchyma, AEON offers surgeons the right tool for every clinical scenario

#### Proprietary short-tip anvil

For improved access in tight spaces during VATS procedures

### Widest range of curved tip reloads

Curved tip anvil offered in 30mm, 45mm, and 60mm reload lengths

Reload Type	Cartridge Lengths	Product Codes	Open Height	Closed Height
Gray	30, 45mm	AESR30G, AESR45G	2.0mm	0.75mm
White	30, 45, 60mm	AESR30W, AESR45W, AESR60W	2.5mm	1.0mm
Orange	30, 45, 60mm	AESR3OR, AESR45R, AESR6OR	3.25mm	1.5mm
Purple	30, 45, 60mm	AESR30P, AESR45P, AESR60P	4.0mm	1.8mm
Black	60mm	AESR60B	5.0mm	2.2mm
Gray Curved Tip	30, 45mm	ASR30GC, AESC45G	2.0mm	0.75mm
White Curved Tip	30, 45, 60mm	ASR30WC, AESC45W, AESC60W	2.5mm	1.0mm
Orange Curved Tip	30, 45, 60mm	ASR30RC, AESC45R, AESC60R	3.25mm	1.5mm
Purple Curved Tip	30, 45, 60mm	ASR30PC, AESC45P, AESC60P	4.0mm	1.8mm
Gray Short Tip	30mm	ASR30GS	2.0mm	0.75mm
White Short Tip	30, 60mm	ASR30WS, ASR60WS	2.5mm	1.0mm
Orange Short Tip	30, 60mm	ASR30RS, ASR60RS	3.25mm	1.5mm
Purple Short Tip	30, 60mm	ASR30PS, ASR60PS	4.0mm	1.8mm

Handle Type	Shaft Length	Product Code
Short	60mm	AESH060
Medium	160mm	AESH160
Long	260mm	AESH260

<sup>1</sup>Eckert at al. (2018) Preclinical quantification of air leaks in aphysiologic lung model: effects of ventilation modality and staple design. *Medical Devices: Evidence and Research*. (11) 433-442. <sup>2</sup>Redmann, et al. (2020). Improving hemostasis in sleeve gastrectomy with alternative stapler. Journal of the Society of Laparoscopic and Robotic Surgeons. (24) 4.https://pubmed.ncbi.nlm.nih. gov/33447003. <sup>3</sup>Raftopoulos, et al. (2021). Prospective randomized comparison of linear endostaplers during laparoscopic sleeve gastrectomy. https://clinicaltrials.gov/ct2/show/study/NCT04617574 <sup>4</sup>Data on file.

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