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Proven technology. More staples.

EEA™ circular stapler with Tri-Staple™ technology

EEA™ Circular Stapler with Tri-Staple™ Technology[1]	21 mm	25 mm	28 mm	31 mm	33 mm
Order code:	TSEEA21	TSEEA25	TSEEA28	TSEEA31	TSEEA33
Outer lumen (mm):	21.59	25.60	28.58	31.50	33.55
Inner lumen (mm):	12.42	16.46	19.43	22.40	24.46
Anastomotic lip (mm):	1.36	1.35	1.35	1.32	1.32
Number of staples:	27	33	39	45	48

Each code is available in:

Cartridge color:	Purple (Medium/Thick)	Black (Extra Thick)
Open staple heights:	3.0, 3.5, 4.0 mm	4.0, 4.5, 5.0 mm

EEA™ Circular Stapler with DST Series™ Technology[1]	21 mm	25 mm	28 mm	31 mm	33 mm
Order code:	EEA21	EEA25	EEA28	EEA31	EEA33
Outer lumen (mm):	21.59	25.60	28.58	31.50	33.55
Inner lumen (mm):	12.52	16.56	19.53	22.50	24.56
Anastomotic lip (mm):	1.84	1.88	1.88	1.88	1.88
Number of staples:	18	22	26	30	32
Open staple heights:	Each code is available in 3.5 mm or 4.8 mm				

Ethicon Echelon Circular™* Powered Stapler[1]	21 mm	25 mm	29 mm	31 mm	33 mm
Order code:	CDH23P	CDH25P	CDH29P	CDH31P	Unavailable
Outer lumen (mm):	23.73	25.61	29.70	31.60	–
Inner lumen (mm):	14.00	16.00	20.00	22.00	–
Anastomotic lip (mm):	2.38	2.27	2.21	2.18	–
Number of staples:	20	22	26	30	–
Open staple heights:	Each code is available in 5.1 mm				

Ethicon Circular™* Stapler[2]	21 mm	25 mm	29 mm	31 mm	33 mm
Order code:	ECS21A	ECS25A	CDH29A	Unavailable	CDH33A
Outer lumen (mm):	21.59	25.55	29.58	–	33.51
Inner lumen (mm):	12.46	16.41	20.37	–	24.43
Anastomotic lip (mm):	2.02	2.05	2.00	–	2.04
Number of staples:	16	20	24	–	28
Open staple heights:	Each code is available in 5.5 mm				

Staple height recommendations

If you normally use a 4.8 mm green thick tissue circular stapler, or larger, for anastomosis, then you should consider converting to the black extra-thick EEA™ circular stapler with Tri-Staple™ technology. The black stapler provides an approximate staple height of 4.0 mm, 4.5 mm, and 5.0 mm.

If you normally use a 4.8 mm green thick tissue circular stapler, or larger, for anastomosis, but the patient's tissue seems thinner than the indicated range, you should consider converting to the purple medium/thick EEA™ circular stapler with Tri-Staple™ technology. The purple stapler provides an approximate staple height of 3.0 mm, 3.5 mm, and 4.0 mm.

If a black extra-thick EEA™ circular stapler with Tri-Staple™ technology is not available, and the tissue exceeds the indicated range of either a 3.5 mm blue circular stapler or the purple medium/thick circular stapler, then you should consider using a 4.8 mm green thick tissue circular stapler with DST Series™ technology.

The benefits of Tri-Staple™ technology

Less stress on tissue during compression and clamping[3,†,‡,§]

Greater perfusion into the staple line[4,Ω,††]

Consistent performance across a broad range of tissue thickness[5-7,†,‡‡]

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†Bench test results may not necessarily be indicative of clinical performance. ‡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. ΩBased on staple-line vascularity analysis using MicroCT in an in vivo canine model (CDH31P: n = 13; TRIEEA31XT: n = 15. P = 0.007). ††Preclinical results may not correlate with clinical performance in humans. ‡‡Compared to EEA™ circular staplers with DST Series™ technology.

1. Based on internal report #RE00348799 rev 1, Echelon Circular™* Powered stapler benchmark measurements. May 6, 2022. 2. Based on internal test report #RE00170377, Ethicon's ILS circular stapler benchmark measurements. Oct. 11, 2019. 3. Based on internal test report #RE00200393 rev.2 Comparison of circular staplers: tissue compression profiles as determine by 2-D static axisymmetric finite element analysis (FEA). June. 17, 2021. 4. Based on internal report #RE00330708 rev 1, Perfusion analysis for circular staplers, comparing EEA™ circular stapler with Tri-Staple™ technology. May 13, 2021. 5. Based on internal test report #RE00069039 rev 5.1, EEA™ circular stapler with Tri-Staple™ technology design verification report. Sept. 29, 2020. 6. Based on internal test report #RE00008030, Tulip benchmark test report. March 18, 2016. 7. Based on internal test report #2128-053, Ethicon™ benchmark testing – Signia™ circular reload. June 17, 2014.

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