Enseal[™]

THICON

ENSEAL™ X1 Tissue Sealers **Expect more**^{1-3*}

ENSEAL™ X1 CURVED JAW TISSUE SEALER

ENSEAL™ X1 LARGE JAW TISSUE SEALER

*ENSEAL[™] XI Curved Jaw has a longer jaw, longer cut length and wider jaw aperture compared to LigaSure Maryland (LF1937) (p < 0.001). In benchtop testing on porcine arteries, vessels sealed with ENSEAL XI Curved Jaw had a 22% higher average burst pressure than vessels sealed with LigaSure[™] Maryland (LF1937), (1055mmHg vs. 862mmHq, p < 0.001)

ENSEAL™ X1 STRAIGHT JAW TISSUE SEALER



1. Ethicon, Project Floyd: Claims Metrology Report, June 2018, PRC079564B (145171-200630) 2. Ethicon, Floyd Relaunch Claims Metrology, June 2020, PRC095763A (145171-200630) 3. Ethicon, Floyd Relaunch Claims Ex-Vivo Sealing, June 2020, PRC094697A (145171-200630)

ENSEAL[™] X1 Tissue Sealers offer more than LigaSure™

More secure[∗]

More efficient per bite5*

The ENSEAL[™] X1 Tissue Sealers are advanced bipolar devices designed for use in open or laparoscopic surgical procedures.[¥] We have and will further redesign our Ethicon Energy Advanced Bipolar Portfolio, to provide secure sealing with more intuitive and simplified steps-for-use.⁶⁷

*Compared to Ligasure Impact (LF4318) in preclinical test of distal tip bleeding (ENSEAL™ vs. Impact-LF4318) in thick porcine mesentery base (p=0.001) ≠ENSEAL™ X1 Straight Jaw Tissue Sealer can capture more tissue per bite with a longer jaw compared to LigaSure™ Blunt Tip ¥As Per Instructions For Use

 Ethicon, PSP005173A, Final Report- 2017 Brick Claims: Comparison of Distal Tip Sealing Performance Between ENSEAL[™] X1 Large Jaw (NSLX120L) with Algorithm and Ligasure[™] Impact (LF4318), Sept 2016, Data on File (154862-201002)
Ethicon, PRC095763B, Floyd Relaunch Claims Metrology, May 2021, Data on File (181977-210702)
Ethicon, DOC023555A, A Floyd Claims Memo Industrial Design, July 2018, Data on File (155321-201009)
Ethicon, PRC095915A, Curved Design Validation 2 Completion Report, June 2020, Data on File (155321-201009)

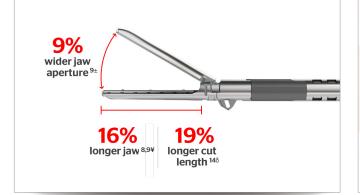
ENSEAL[™] X1 Curved Jaw Tissue Sealer

More efficient than LigaSure™ Maryland^{8,9*}

- Capture more tissue per bite with a longer jaw and wider jaw aperture $^{\rm 89 \rm ¥}$
- Better distal tip grasping compared to LigaSure[™] Maryland^{10≠}
- 360° continuous shaft rotation to enable easy access to targeted tissue^{11,12}

Curved, tapered tip designed for fine dissection ¹²¹³

ENSEAL[™] X1 Curved Jaw can capture more tissue per bite with a 16% longer jaw and 9% wider jaw aperture compared to LigaSure[™] Maryland^{8.9¥}





*ENSEAL[™] X1 Curved Jaw Tissue Sealer can capture, seal and transect a longer length of tissue per single activation due to a 16% (or 3.4mm) longer jaw (p < 0.001) and a 19% (or 3.5mm) longer cut length (p < 0.001) compared to LigaSure[™] Maryland (LF1937). ¥Based on metrology data, ENSEAL X1 Curved Jaw Tissue Sealer has a 16% (or 3.4mm) longer jaw than LigaSure[™] Maryland (LF1937) (p < 0.001) and ENSEAL X1 Curved Jaw Tissue Sealer has a 9% (or 115mm) wider jaw aperture than LigaSure[™] Maryland (LF1937) (p < 0.001) arGasping force measured as the maximum amount of force required to pull porcine jejunum from the distal tip of device jaws. Comparison of ENSEAL X1 Curved Jaw to LigaSure[™] Maryland (LF1937) (p < 0.001) ± M

8. Ethicon, Project Floyd: Claims Metrology Report, June 2018, PRC079564B (145163-200630, 145041-200629)
9. Ethicon, Floyd Relaunch Claims Metrology, June 2020, PRC095763A (145163-200630, 145041-200629)
11. As Per Instructions For Use (152441-200929)
12. Ethicon, DOC023555A, A Floyd Claims Memo - Industrial Design, July 2018, Data on File (152441-200929, 152450-200909)
13. Ethicon, DOC024721A, Floyd Marketing Claims Memo, Jan 2019, Data on File (152450-200909)
14. Ethicon, PRC079564B, Project Floyd Claims Metrology Report, June 2018, Data on File (152466-200909)

ENSEAL[™] X1 Straight Jaw Tissue Sealer

More efficient

- Can capture more tissue per bite with a longer jaw154
- Has a **10% longer cut length** than LigaSure[™] Blunt Tip^{15≠}
- 360° continuous shaft rotation to enable access to targeted tissue^{16,17}

ENSEAL[™] X1 Straight Jaw Tissue Sealer can capture more tissue per bite with a longer jaw compared to LigaSure[™] Blunt Tip¹⁵¹

*ENSEAL™ X1 Straight Jaw Tissue Sealer can capture more tissue per bite with a longer jaw compared to LigaSure™ Blunt Tip \Based on metrology data, ENSEAL™ X1 Straight Jaw Tissue Sealer has a 6% (or 1.1mm) longer jaw than LigaSure™ Blunt Tip (LF1837) (p < 0.001) ≠Metrology report comparing Enseal™ X1 Straight Jaw to LigaSure™ Blunt Tip (LF1837) (p < 0.001) ¥Based on metrology data, ENSEAL™ X1 Straight Jaw Tissue Sealer has a 6% (or 1.1mm) longer jaw than LigaSure™ Blunt Tip (LF1837) (p < 0.001)

15. Ethicon, PRC095763B, Floyd Relaunch Claims Metrology, May 2021, Data on File (181977-210702, 181978-210702) 16. As Per Instructions For Use (152441-200929) 17. Ethicon, DOC023555A, A Floyd Claims Memo - Industrial Design, July 2018, Data on File (152441-200929) 18. Ethicon, PRC095763B, Floyd Relaunch Claims Metrology, May 2021, Data on File (181980-210702)

ENSEAL[™] X1 Large Jaw Tissue Sealer

More secure sealing than LigaSure Impact^{™19*}

- Had **significantly less bleeding** at the distal tip vs LigaSure Impact[™] in thick tissue^{20,21¥}
- Had **41% less lateral thermal** spread than LigaSure Impact^{22≠}
- Has **improved ergonomics** which allows a 360° rotation compared to LigaSure Impact^{™23}

ENSEAL[™] X1 Large Jaw has a larger distal electrode surface area than LigaSure[™] Impact²⁴

 ENSEAL[™] X1 Large Jaw
 LigaSure Impact[™]

 ENSEAL[™] X1 Large Jaw
 LigaSure Impact[™]

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*Compared to Ligasure Impact (LF4318) in preclinical test of distal tip bleeding (ENSEAL[™] vs. Impact-LF4318) in thick porcine mesentery base (p=0.001) ¥Preclinical test of distal tip bleeding (ENSEAL[™] vs. Impact-LF4318) in thick porcine mesentery base (p<0.001) ≠Preclinical testing on porcine carotids (ENSEAL[™] vs. Impact-LF4318) that measured mean max lateral thermal damage via histology (p=0.005)

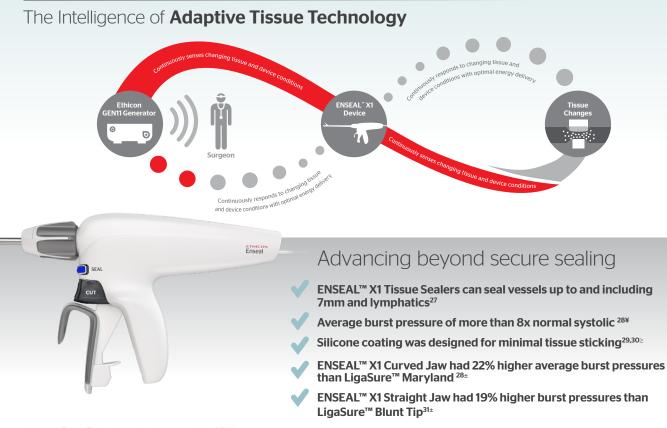
19. Ethicon, PSP005173A, Final Report- 2017 Brick Claims: Comparison of Distal Tip Sealing Performance Between ENSEAL[™] X1 Large Jaw (NSLX120L) with Algorithm and Ligasure[™] Impact (LF4318), Sept 2016, Data on File (154862-201002), **20**. Ethicon, PSB004548 Final Report Brick Distal Tip Sealing Algo D, Sept 2016, Data on File (116497-190612) **21**. Ethicon, PSP005819A, Final Report Brick Claims: Comparison of distal tip sealing performance between ENSEAL[™] X1 Large Jaw (NSLX120L) and LIGASURE[™] IMPACT (LF4318), Sept 2017, Data on File (116497-190612) **22**. Ethicon, PSB004570, Final Report Brick Thermal Damage vs ImpactI, Nov 2016, Data on File (114378-210504) **23**. Ethicon, DCC02221, Memo - X1 Large Jaw - better design and ergonomics vs Impact, July 2016, Data on File (116496-190612) **24**. Ethicon, DCC022209A Brick - Superior Distal Tip Sealing Rationale, Aug 2016, Data on File (124114-190923)

Expect more with ENSEAL[™] X1 devices

Intelligent energy delivery

Powered by Ethicon GEN11 Generator, Adaptive Tissue Technology continuously delivers:

- Energy intelligently and efficiently in ENSEAL[™] X1 Large Jaw^{25,26≠}
- Senses changes in tissue conditions and responds with an optimized amount of energy^{25,26#}



≠Adaptive Tissue Technology algorithm powered by GEN11

¥In benchtop testing on porcine arteries, average burst pressure was 1055 mmHg

 \geq Preclinical testing that compared average sticking force (lbf) of ENSEAL X1 Large Jaw end-effector coated with and without non-stick silicone (p<0.05)

±Comparison of ENSEAL X1 Curved Jaw to LigaSure™ Maryland (LF1937). Benchtop testing on porcine arteries (1055mmHg vs. 862mmHg, p < 0.001)

25. Ethicon, SCN047554A, Brick XI System and Generator - Memo v2, Sept 2016, Data on File (173804-210414) 26. Ethicon, PSP007612A, Evaluation of ENSEAL[™] XI Tissue Sealer, Curved Jaw, in an Acute Porcine Model, Feb 2020, Data on File (173804-210414) 27. As Per Instructions For Use (130176-200102) 28. Ethicon, Floyd Relaunch Claims Ex-Vivo Sealing, June 2020, PRC094697A (145156-200630, 145069-200629) 29. Ethicon, DOC023555A, A Floyd Claims Memo - Industrial Design, July 2018, Data on File (123390-190913) 30. Ethicon, PRC074959A, Brick EB2 Silicone versus No Silicone Testing, Sept 2016, Data on File (123390-190913) 31. Ethicon, 500805374A, Floyd Straight vs. LigaSure[™] Blunt Claims Ex-Vivo Sealing, Oct 2021, Data on File (200488-220106)

ENSEAL[™] X1 devices feature ergonomic engineering

- Intuitive design³²
- Separate seal and cut functionality³³
- Conveniently placed control buttons are designed for less hand movement³²
- 360° shaft rotation to enable access to targeted tissue^{32,33}

DESCRIPTION	PRODUCT CODE	SHAFT LENGTH (cm)	SHAFT DIAMETER (mm)	QUANTITY/SALES UNIT
ENSEAL™ X1 Curved Jaw	NSLX125C	25	5	3
ENSEAL [™] X1 Curved Jaw	NSLX137C	37	5	3
ENSEAL [™] X1 Curved Jaw	NSLX145C	45	5	3
ENSEAL™ X1 Straight Jaw	NSLX125S	25	5	3
ENSEAL™ X1 Straight Jaw	NSLX137S	37	5	3
ENSEAL™ X1 Large Jaw	NSLX120L	20	13	6

 ENSEAL[™] X1 Curved Jaw, ENSEAL[™] X1 Straight Jaw, and ENSEAL[™] X1 Large Jaw are supplied sterile for single-patient use

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Enseal

• ENSEAL[™] X1 Tissue Sealers are compatible with the Ethicon GEN11 Generator (software version 2016-1 or later versions)

How to order

Please contact your local Ethicon Sales Representative

Visit www.jnjmedicaldevices.com for more information about the ENSEAL[™] X1 Tissue Sealers.

Please refer always to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.

The third party trademarks used herein are the trademarks of their respective owners.

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32. Ethicon, DOC023555A, A Floyd Claims Memo - Industrial Design, July 2018, Data on File (155022-201006, 116498-210802, 152441-200929)
33. As Per Instructions For Use (152981-200915, 152441-200929)