Enseal®

Designed to **seal better**, so that you can put **healing first**

The ENSEAL® X1 Large Jaw Tissue Sealer
Competitive Performance Comparison[1]

ENSEAL® X1 Large Jaw

- Created **seals that withstand 12x normal systolic pressure**[2]
- Had **41% less lateral thermal spread**[3]
- Silicone coating was designed for **minimal tissue sticking**[4]
- **Continuous 360° shaft rotation** in either direction

VS.

LigaSure Impact™

- **Less hemostatic** at the distal tip[1]
- **Significantly hotter** after single firing[5]
- Smaller distal electrode surface area[6]
- Shaft can only **rotate 180°**

Ethicon Energy Solutions. Healing first.

ETHICON
PART OF THE Johnson & Johnson FAMILY OF COMPANIES
Shaping the future of surgery

ENSEAL® X1 Large Jaw vs. LigaSure Impact™

Better Hemostasis

ENSEAL® X1 Large Jaw was **more hemostatic and has less bleeding at the distal tip** than LigaSure Impact™.[1]

ENSEAL® X1 Large Jaw created seals that withstand **12x normal systolic pressure**.[2]

Better Tissue Management

ENSEAL® X1 Large Jaw had **41% less lateral thermal spread than** LigaSure Impact™.[3]

Better Design

ENSEAL® X1 Large Jaw has silicone coating that is designed for **minimal tissue sticking.**[4]

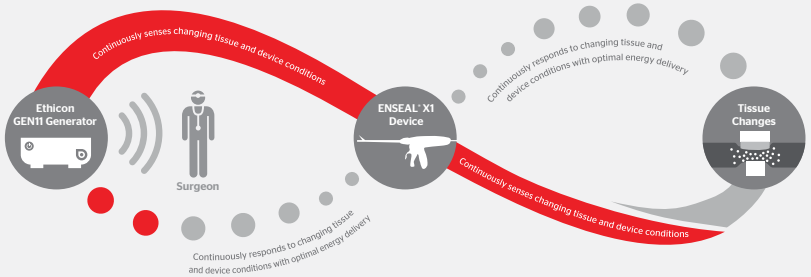
The **360° shaft rotation** of the ENSEAL® X1 Large Jaw was designed to increase surgical efficiency.[7]

The intelligence behind ENSEAL® X1 uses an advanced algorithim for intelligent and efficient energy delivery.

It continuously

- **Senses** changes in tissue conditions
- **Responds** with the optimal amount of energy
- **Delivers** greater precision[8] and efficiency[9]

The intelligence of Adaptive Tissue Technology



For more information, contact your local Ethicon sales professional or go to www.Ethicon.com

References. 1. Preclinical test of distal tip bleeding (ENSEAL® vs. Impact-LF4318) in thick porcine mesentery base (*P*<0.001)(C2169) (062628-181005). **2**. Benchtop testing on 1-7mm porcine splenic, thyrocervical and carotid arteries (mean burst pressure of 1400 mmHg) (064971-191205). **3**. Preclinical testing on porcine carotids (ENSEAL® vs. Impact-LF4318) that measured mean max lateral thermal damage via histology (p=0.005)(062746-180228). **4.** Preclinical testing that compared average sticking force (lbf) of ENSEAL X1 Large Jaw end-effector coated with and without non-stick silicone (*P*<0.001)(C2253)(067759-170221). **5.** Benchtop test on porcine jejunum vs. Impact-LF4318. Max mean temperature (degrees C) of bottom and top jaws combined via infrared camera (*P*<0.001) (062668-161102). **6.** (062722-161103). **7.** (062936-180228). **8.** Preclinical testing on porcine carotids (ENSEAL® vs. Impact-LF4318) that measured mean max lateral thermal damage via histology showed ENSEAL at 41% less thermal spread than Ligasure (*P*=0.005) (062746-180228). **9.** (061415-161010).

Ethicon Energy Solutions. Healing first.

ETHICON
PART OF THE Johnson & Johnson FAMILY OF COMPANIES
Shaping the future of surgery

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert.