

# Do more with **enhanced precision** and proven outcomes



## VS. **Medtronic LigaSure™ Small Jaw**

- X** HARMONIC™ FOCUS™+ Shears caused a significantly smaller thermal footprint compared to LigaSure™ Small Jaw in a porcine model<sup>1\*,ff</sup>
- X** HARMONIC™ FOCUS™+ Shears caused significantly less nerve damage compared to LigaSure™ Small Jaw in a preclinical rat model<sup>2‡,fi</sup>
- X** HARMONIC™ FOCUS™+ Shears have a smaller overall profile<sup>\*\*</sup> than LigaSure™ Small Jaw<sup>3\*\*</sup>
- X** HARMONIC™ FOCUS™+ Shears active blade is 53.6% thinner at the proximal end than LigaSure™ Small Jaw<sup>3#</sup>
- X** HARMONIC™ FOCUS™+ shears caused up to 75.8% less sticking than LigaSure™ Small Jaw<sup>4§</sup>

# HARMONIC™ FOCUS™+ Shears



# LigaSure™ Small Jaw



## Heat and thermal management

HARMONIC™ FOCUS™+ Shears caused a significantly smaller thermal footprint compared to LigaSure™ Small Jaw in a porcine model<sup>1\*,ff</sup>

- HARMONIC™ FOCUS™+ Shears caused 50% less nerve damage compared to LigaSure™ Small Jaw in a preclinical study<sup>2#, fi</sup>
- HARMONIC™ FOCUS™+ Shears caused a 27% smaller thermal footprint compared to LigaSure™ Small Jaw in a porcine model<sup>1\*,ff</sup>



## Access and visualization

HARMONIC™ FOCUS™+ Shears have a smaller overall profile\* than LigaSure™ Small Jaw<sup>3\*\*</sup>

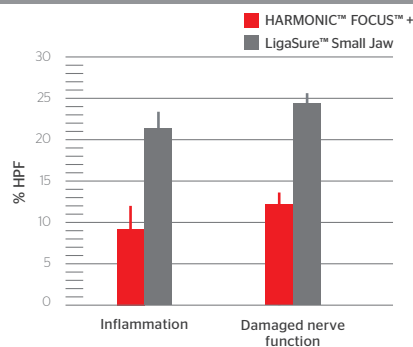
- HARMONIC™ FOCUS™+ Shears active blade is 58.4% thinner at the distal end and 53.6% thinner at the proximal end than LigaSure™ Small Jaw<sup>3§</sup>



## Efficiency

- HARMONIC™ FOCUS™+ shears caused up to 75.8% less sticking than LigaSure™ Small Jaw<sup>4†</sup>
- 22% faster than LigaSure™ Small Jaw during sutureless thyroidectomies<sup>5¥</sup>

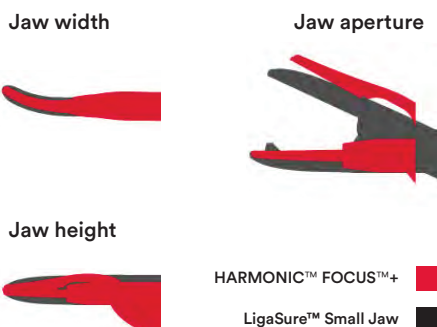
### Nerve Impact<sup>2</sup>



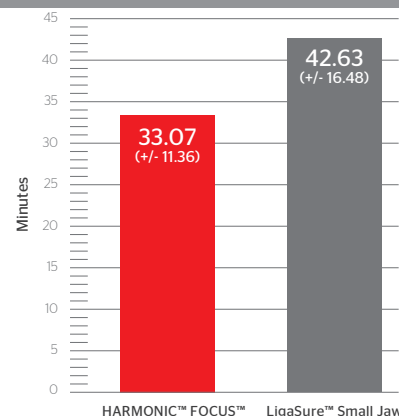
Percentage of high-power fields (HPF) with sciatic nerve inflammation and damaged nerve function as assessed by a protein antibody marker (-APP) after device application at a distance of 2mm (preclinical animal model).

Note: Error bars represent the standard error.

### Device Profile<sup>3</sup>



HARMONIC™ FOCUS™ Curved Shears were 22% faster than LigaSure™ Small Jaw during sutureless thyroidectomies<sup>5¥</sup>



For more information, contact your local Ethicon Sales Representative or go to [www.jnjmedtech.com](http://www.jnjmedtech.com)

# As exhibited in a preclinical rat model when activating 2mm away from the sciatic nerve. Mean nerve damage assessed as axonal transport impairment: 12.2% (HARF) vs. 24.3% (SJ), p<0.001 (PSP003838)  
 \* As exhibited in a preclinical porcine model on porcine carotids - median thermal footprint 6.52mm (HAR9F) vs. 8.93mm (LF1212A), p=0.003. Thermal footprint is defined as clamp arm width plus thermal spread on both sides of device. Based on pre-clinical testing on animal models and clinical effect is unknown fi This data is based on a preclinical study and does not represent real surgical setting outcome  
 \*\* Device measurements based on a metrology study (distal and proximal clamp arm width measurements of 1.98mm vs 3.30mm and 3.12mm vs 4.83mm, respectively, and proximal and distal jaw height measurements of 2.82mm vs 3.61mm and 5.99mm vs 8.86, respectively § Device measurements based on a metrology study (blade width measurements of 1.37mm vs. 3.3mm at the distal end & 2.24mm and 4.83mm at proximal end) † Benchtop testing when sealing porcine vessels (p<0.001) ¥ In a randomized control trial of sutureless thyroidectomy cases that compared HARMONIC™ FOCUS™ (n=119) and LigaSure Small Jaw™ (n=126), average duration of operation time (in minutes) was 33.07 ± 11.36 (16–70 min) and 42.63 ± 16.48 (18–92 min) for HARMONIC™ FOCUS™ and LigaSure™ Small Jaw™, respectively (p<0.001). ‡ In a randomized control trial of sutureless thyroidectomy cases that compared HARMONIC™ FOCUS™ (n=119) and LigaSure Small Jaw™ (n=126), average duration of operation time (in minutes) was 33.07 ± 11.36 (16–70 min) and 42.63 ± 16.48 (18–92 min) for HARMONIC™ FOCUS™ and LigaSure™ Small Jaw™, respectively (p<0.001). ff Compared to LigaSure™ Small Jaw

References: 1. Ethicon, PSP003880A, HAR9F vs LF1212 Thermal Damage Statistical Analysis, March 2014, Data on File (147538-230321) 2. Ethicon, PSP003838A, Wayne State Electrophysiological Study Statistical Analysis Results, March 2014, Data on File (118894-220620) 3. Ethicon, PRC064253A, Nighthawk (HAR9F) Dimensional Comparison, Oct 2013, Data on File (147539-230504, 147540-220923) 4. Ethicon, PRC067877B, Nighthawk & Small Jaw Claims Burst Test, Oct 2014, Data on File (147544-220923) 5. Serkan Teksoz, Yusuf Bukey, Murat Ozcan, Akif Enes Arkan, Ates Ozyegin, Sutureless thyroidectomy with energy-based devices: Cerrahpasa experience, Updates Surg;2013;10-1007-s13304-013-0231-2 (147545-220923)

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

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