Advancing Smooth Surgery

Harmonic

Ultrasonic Industry Association Product Awards

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ETHICON ENDO-SURGERY
a Johnson & Johnson company
ACE Design – Listening to the customer

• Top three customer needs for Harmonic
  – Hemostasis of Larger Vessels
  – Faster Transection
  – Reduced Technique Sensitivity
ACE Design – Larger Vessels

- Significant development work completed to develop design variables leading to larger vessel hemostasis.
- Final analysis indicated that an increase in clamp pressure was the major enabling variable.
ACE Design – Faster Transections

- The same variable that enabled larger vessels also played a major role in transection speed.
- Higher clamp pressure allows for faster transections, even with lower amplitude.
ACE Design – Reduced Technique

• By providing improved hemostasis, need to “feather” is reduced.
• Increased transection speed reduces need to “speed up” transections.
• Higher clamp force makes ACE a better grasper.
• Click design allows for reduced learning curve.
Seals vessels up to 5mm in diameter

Vessels and bundles can be sealed and divided in 4-6 seconds

43% faster transection times vs LCSC5

Grasping force increased by 2 times and improved clamp profile

Rotation forces decreased 30% vs LCSC5

Seal strength in excess of 2 times systolic pressure*
*tested in porcine and caprine arteries and veins
Improved ergonomics

Product codes have hand activation, a minimum and a maximum button

Audible feedback "click" when optimal closure point is reached to maximise outcome

Indicator to measure 5mm at both sides of the tissue pad jaw
Thank You