Introducing
HARMONIC ACE®+ Shears
with Adaptive Tissue Technology

Greater precision through improved energy delivery
HARMONIC ACE®+ Shears with Adaptive Tissue Technology

Enhanced precision vs HARMONIC ACE® Shears
• 23% less thermal spread\(^1\) reduces tissue damage to surrounding vital structures
• 21% shorter transection times\(^2\) with the same reliable hemostasis you expect from HARMONIC ACE®
• Refined blade design enables precision in dissection, sealing, transection, grasping, and otomy creation

Advanced energy delivery through Adaptive Tissue Technology
• New technology responds intelligently to tissue conditions for greater precision
  — Regulates energy delivery when needed for improved temperature management
  — A tone change signals when Adaptive Tissue Technology is regulating energy delivery, thereby improving efficiency with enhanced feedback
• The surgeon retains ultimate control over the device
  — Adaptive Tissue Technology provides the benefits of greater precision without compromising the surgeon’s control of device function

HARMONIC ACE®+ Shears:
The precision of advanced energy delivery

REFINED BLADE DESIGN
• Finer, tapered tip designed for precision and versatility
• Nonstick coating added to titanium alloy blade

AVAILABLE IN 2 SHAFT LENGTHS
• 23cm and 36cm

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\(^1\)23% less thermal spread exhibited in porcine histology vs HARMONIC ACE® Shears without Adaptive Tissue Technology (1.7mm vs 2.2mm; \(P<0.001\)).

\(^2\)21% shorter transection times measured in porcine labs vs HARMONIC ACE® Shears without Adaptive Tissue Technology (4.5s vs 5.7s; \(P<0.001\)).

\(^3\)In a benchtop study on Power Level 5, HAR36 and HAR23 exhibited 30.1% and 34.2% lower mean \((P=0.000)\) and median \((P=0.000)\) blade heat, respectively, than HARMONIC ACE® Shears without Adaptive Tissue Technology.
Improved temperature management and efficiency with Adaptive Tissue Technology

Conventional ultrasonic technology

- Continued activation after transection can result in increased blade temperatures and inefficient energy delivery.

Adaptive Tissue Technology

- Energy is delivered with greater precision, resulting in improved temperature management and shorter transection times.

AUDIBLE FEEDBACK
- A tone change provides a cue to reduce activation time

ENHANCED ENERGY DELIVERY
- Greater precision with 23% less thermal spread and 21% shorter transection times vs HARMONIC ACE® Shears
New HARMONIC ACE®+ Shears

<table>
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<tr>
<th>Product code</th>
<th>Description</th>
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<tr>
<td>HAR36</td>
<td>HARMONIC ACE® Laparoscopic 5mm Diameter Shears 36cm Length + Adaptive Tissue Technology</td>
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<tr>
<td>HAR23</td>
<td>HARMONIC ACE® 5mm Diameter Shears 23cm Length + Adaptive Tissue Technology</td>
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To order, please contact your EES Sales Professional or call 1-800-USE-ENDO.

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