PRECISE ACCESS.\textsuperscript{1,†}

UNPARALLELLED FREEDOM.\textsuperscript{1}

Cordless ultrasonic vessel sealing and dissection — now with a tapered, curved jaw and streamlined cleaning and sterilization\textsuperscript{†}

\textsuperscript{†}30 out of 33 surgeons agreed

\textsuperscript{†}Compared to the first-generation Sonicision™ system.

Sonicision™ Curved Jaw Cordless Ultrasonic Dissection System

Medtronic
Further. Together
Overcoming healthcare’s biggest challenges. That’s been the driving force behind the development of our energy products for more than 50 years. It’s why we invented our cordless ultrasonic dissector. So surgeons can have more freedom of movement within their procedures — and a safer OR.² Now we’ve taken that idea to the next level.

**Introducing the Sonicision™ curved jaw cordless ultrasonic dissection system — the next generation in cordless ultrasonic energy**

This latest advancement to our energy portfolio is designed to enable:

- Access and visibility in tight spaces¹†
- More procedural uses⁵–⁷,⁹,‡
- A safer OR²
- Streamlined cleaning and sterilization¹

³33 out of 33 surgeons surveyed after use agreed.
‡Compared to the first-generation Sonicision™ system.

The Sonicision™ curved jaw device is the future of advanced ultrasonic dissection — ready for your procedures today.
A curved jaw ultrasonic dissector — without a cord

**ACCESS. MOBILITY. VERSATILITY.**

Freedom from cords:
- Improves movement, mobility, and safety in any OR
- Makes it easier to pass the device during procedures
- Supports more natural movement compared to devices with cords

Single button dual-mode energy activation:
- Is designed to improve focus on the procedure with intuitive, single button energy activation
- Allows access to minimum and maximum energy modes so the surgeon’s eyes can stay on the surgical field
- Facilitates versatility within procedures by providing two distinct energy modes

**THE BENEFITS OF UNPLUGGING**

Cordless vessel sealing and dissection in your procedures contributes to:
- Reduced tripping hazards
- Easier instrument exchanges
- Improved procedural focus
- More natural movement
- Improved freedom of movement and mobility

“The innovative cordless design significantly enhances ease of use in the operating room with overall excellent effectiveness.”

—Baker EH, et al. *Surgical Innovation*

† 32 out of 33 surgeons surveyed after use agreed.
‡ 29 out of 33 surgeons surveyed after use agreed.
§ 30 out of 33 surgeons surveyed after use agreed.
Ω 33 out of 33 surgeons surveyed after use agreed.
†† 31 out of 32 surgeons surveyed after use agreed.
An autowashable, autoclavable generator and nonsterile battery:

- Streamlines cleaning and sterilization†
- Reduces special handling of system components†
- Allows for use in more procedures before replacements are needed thanks to an increased overall useful life of the battery and generator§
- Provides a wide variety of sterile barrier / steam sterilization cycle combinations to accommodate hospital needs5

An intuitive, easy to use‡ battery charger:

- Makes it easy to interpret battery charge status† and battery end of life indications§
- Enables efficient battery usage management§

†Compared to the first-generation Soncision™ system.
‡28 out of 28 nurses surveyed after use agreed.
§27 out of 28 nurses surveyed after use agreed.
FREEDOM OF MOVEMENT. FOR LONGER THAN EVER.

More activations and improved efficiency compared to our first-generation Sonicision™ device

100% of surgeons said the Sonicision™ curved jaw device is intuitive and comfortable to use throughout procedures.

Our next-generation reusable battery pack (SCBA) delivers:

88% greater capacity for more interoperative uses before a new battery is needed

2x more procedural uses in your hospital to reduce the burden of reordering

Our enhanced reusable generator (SCGAA) delivers:

1.5x more procedural uses

Plus it’s autowashable and autoclavable for streamlined cleaning and sterilization.

† 33 out of 33 surgeons surveyed after use agreed.
‡ Compared to the first-generation Sonicision™ system.
A majority of nurses surveyed said that the Sonicision™ curved jaw device is easier to assemble than the Harmonic scalpel.⁸,††

A DESIGN FOR THE WHOLE TEAM

Cordless convenience

100% of nurses agree

the cordless design of the Sonicision™ curved jaw device:

- Makes it easier to pass during procedures⁸,†
- Enhances mobility⁸,‡
- Allows for use in any OR⁸,†
- Improves the use of space in the OR⁸,†

A focus on ease of use

100% of nurses agree

that the Sonicision™ curved jaw system:

- Enables easy setup with an integrated torque wrench⁸,‡
- Makes it easy to determine when the device is ready to use⁸,§
- Communicates device status with easy-to-interpreted colors and tones⁸,Ω
- Features an easy-to-use battery charger with an intuitive user interface⁸,§

Nurses agree that the design of the Sonicision™ curved jaw device can bring improvements to the OR⁸

†29 out of 29 nurses surveyed after use agreed.
‡14 out of 14 nurses surveyed after use agreed.
§28 out of 28 nurses surveyed after use agreed.
Ω27 out of 27 nurses surveyed after use agreed.
††19 out of 29 nurses surveyed after use agreed.
**Sonicision™ curved jaw device vs. Harmonic ACE™**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Sonicision™ Curved Jaw Device</th>
<th>Harmonic ACE™+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width at Tip of Active Blade</td>
<td>0.8 mm</td>
<td>1.1 mm</td>
</tr>
<tr>
<td>Width at Base of Active Blade</td>
<td>1.7 mm</td>
<td>2.2 mm</td>
</tr>
<tr>
<td>Length of Active Blade</td>
<td>14.5 mm</td>
<td>14.4 mm</td>
</tr>
</tbody>
</table>

The Sonicision™ curved jaw device features a thinner active blade than the Harmonic ACE™+ device.†

The device’s jaw profile enables access in tight spaces while the jaw taper provides precise access to tissue planes and allows controlled dissection.†

---

†Active blade measured at the tip and the base.
The Sonicision™ curved jaw device features a thinner active blade than the Harmonic ACE™+7 device. The device’s jaw profile enables access in tight spaces while the jaw taper provides precise access to tissue planes and allows controlled dissection.

### Jaw Comparison

<table>
<thead>
<tr>
<th>Device</th>
<th>Width at Tip of Active Blade</th>
<th>Width at Base of Active Blade</th>
<th>Length of Active Blade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sonicision™ Curved Jaw Device</td>
<td>0.8 mm</td>
<td>1.7 mm</td>
<td>14.5 mm</td>
</tr>
<tr>
<td>Harmonic ACE™+7</td>
<td>1.1 mm</td>
<td>2.2 mm</td>
<td>15.3 mm</td>
</tr>
</tbody>
</table>

### Competitive Comparison

- Freedom of movement
- Ease of assembly
- Acute hemostasis
- 7 mm sealing indication
- Thermal spread
- Max jaw temperature ultrasonic jaw
- Max jaw temperature nonactive, movable jaw
- Max shaft temperature
- Jaw cool down time, ultrasonic jaw
- Jaw cool down time nonactive, movable jaw
- Dissection speed
- Activation time using advanced hemostasis mode

**Sonicision™ curved jaw device vs. Harmonic ACE™+7**

- Freedom of movement
- Ease of assembly
- Acute hemostasis
- 7 mm sealing indication
- Thermal spread
- Max jaw temperature ultrasonic jaw
- Max jaw temperature nonactive, movable jaw
- Max shaft temperature
- Jaw cool down time, ultrasonic jaw
- Jaw cool down time nonactive, movable jaw
- Dissection speed
- Activation time using advanced hemostasis mode

**17.7 seconds**

- Sonicision™ curved jaw device outperforms the Harmonic Ace™+7 device.
- No difference found between devices.
- The Sonicision™ curved jaw device is indicated differently, and coagulates isolated vasculature up to and including 5 mm in diameter.

---

† Testing performed across indicated vasculature in an acute porcine model.
‡ Measured across multiple activations on bench porcine mesentery.
§ Average of single activations.
Ω Active blade measured at the tip and the base.
†† Average of single activations on bench porcine mesentery.
**COMPETITIVE COMPARISON**

**Sonicision™ curved jaw device vs. Harmonic™ HD1000i**

<table>
<thead>
<tr>
<th>Freedom of movement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaw taper/jaw profile</td>
<td></td>
</tr>
<tr>
<td>Acute hemostasis</td>
<td></td>
</tr>
<tr>
<td>7 mm sealing indication</td>
<td></td>
</tr>
<tr>
<td>Thermal spread</td>
<td></td>
</tr>
<tr>
<td>Max jaw temperature ultrasonic jaw</td>
<td></td>
</tr>
<tr>
<td>Max jaw temperature nonactive, movable jaw</td>
<td></td>
</tr>
<tr>
<td>Max shaft temperature</td>
<td></td>
</tr>
<tr>
<td>Jaw cool down time, ultrasonic jaw</td>
<td></td>
</tr>
<tr>
<td>Jaw cool down time nonactive, movable jaw</td>
<td></td>
</tr>
<tr>
<td>Dissection speed</td>
<td></td>
</tr>
<tr>
<td>Activation time using advanced hemostasis mode</td>
<td>12.7 seconds</td>
</tr>
</tbody>
</table>

**Jaw Comparison**

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<td>0.8 mm</td>
<td>1.7 mm</td>
<td>14.5 mm</td>
</tr>
<tr>
<td>Harmonic™ HD1000i</td>
<td>1.1 mm</td>
<td>2.2 mm</td>
<td>19.0 mm</td>
</tr>
</tbody>
</table>

The Sonicision™ curved jaw device features a thinner active blade than the Harmonic™ HD1000i device. The device’s jaw profile enables access in tight spaces while the jaw taper provides precise access to tissue planes and allows controlled dissection.

The Sonicision™ curved jaw device outperforms the Harmonic™ HD1000i device. No difference found between devices. The Sonicision™ curved jaw device is indicated differently, and coagulates isolated vasculature up to and including 5 mm in diameter.

† Testing performed across indicated vasculature in an acute porcine model.
† Measured across multiple activations on bench porcine mesentery.
§ Average of single activations.
Ω Active blade measured at the tip and the base.
†† Average of single activations on bench porcine mesentery.
**First-generation Sonicision™ device vs. Sonicision™ curved jaw device**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freedom of movement</td>
<td></td>
</tr>
<tr>
<td>Acute hemostasis</td>
<td></td>
</tr>
<tr>
<td>Thermal spread</td>
<td></td>
</tr>
<tr>
<td>Max jaw temperature</td>
<td></td>
</tr>
<tr>
<td>Max shaft temperature</td>
<td></td>
</tr>
<tr>
<td>Jaw cool down time</td>
<td></td>
</tr>
<tr>
<td>Dissection speed</td>
<td></td>
</tr>
</tbody>
</table>

No difference found between devices.

**Next-generation benefits**

Compared to the first-generation Sonicision™ device, the Sonicision™ curved jaw device provides:

- A tapered, curved jaw design
- A more robust active blade†
- A reusable battery pack that delivers:
  - 88% more battery capacity‡
  - Twice the number of procedural uses — from 100 to 200⁵-⁷
  - Easier post-procedure management due to battery’s nonsterile nature⁵
- A reusable generator that enables:
  - Streamlined cleaning and sterilization because it’s now autowashable and autoclavable‡
  - More procedural uses before reordering is needed — from 100 to 150⁵,⁹
- A simplified battery charger that has an easy to interpret charge status and end of life indications to enable more efficient battery management§

† Based on comparison to the first-generation Sonicision™ device regarding survivability when contacting metal clips and stress induced by ultrasonic vibration.
‡ Compared to the first-generation system.
§ 27 out of 28 nurses surveyed after use agreed.
FOUR SIZES. ZERO CORDS. MANY APPLICATIONS.

Our Sonicision™ curved jaw cordless ultrasonic portfolio can meet most of your procedural needs.

Sonicision™ Curved Jaw Ultrasonic Dissector 13 cm (SCDA13)

Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 26 cm (SCDA26)

Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 39 cm (SCDA39)

Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 48 cm (SCDA48)
I’m requesting the following instruments be stocked in our facility so that I have consistent access to them for my cases:

- Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 13 cm (SCDA13)
- Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 26 cm (SCDA26)
- Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 39 cm (SCDA39)
- Sonicision™ Curved Jaw Cordless Ultrasonic Dissector 48 cm (SCDA48)
- Sonicision™ Reusable Battery Pack (SCBA)
- Sonicision™ Reusable Generator (SCGAA)
- Sonicision™ Reusable Battery Insertion Guides (SCBIGA)
- Sonicision™ Battery Charger (CBCA)
- Sonicision™ Reusable Sterilization Tray (SCSTA)

The Sonicision™ curved jaw cordless ultrasonic dissector:
- Contributes to a safer OR†
- Allows for visualization and precise access to tissue planes†
- Provides efficient dissection‡ and reliable vessel sealing‡
- Comes in four lengths to accommodate your procedural needs

We believe that the Sonicision™ curved jaw device will add value for our patients and our hospital. Thank you for reviewing this information. Please feel free to contact me if you have any questions.

Sincerely,

Additional comments:

† 33 out of 33 surgeons surveyed after use agreed.
‡ In a head-to-head comparison with the Harmonic ACE™+ device, 13 out of 14 surgeons surveyed after use said blunt dissection was similar; 1 said the Sonicision™ device was better.

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<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCDA13</td>
<td>Sonicision™ 13 cm Curved Jaw Cordless Ultrasonic Dissector</td>
<td>6 per box</td>
</tr>
<tr>
<td>SCDA26</td>
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</tbody>
</table>
PORTABLE PRECISION.

Introduce freedom of movement to your procedures

Contact your sales representative for more information about the Sonicision™ curved jaw dissector

800-722-8227
medtronic.com/covidien


Based on internal test memo #RE00153542 rev B, Battery capacity comparison between first-generation Sonicision™ device battery pack (SCB) and the Sonicision™ curved jaw device battery pack (SCBA). May 17, 2018.


12. Based on internal test report #R00032362 rev A. Comparison of Ethicon Harmonic™ HD1000i shears and ACE™+7 vs. Sonicision™ curved jaw device (SPD-83) and LigaSure™ Maryland jaw device (LF 19XX) on the ForceTriad™ and Valleylab™ FT10 energy platforms in an acute porcine study. May 8–9, 2017.

13. Based on internal test report #R00032385 rev A. Thermal profile comparison with Ethicon Harmonic™ HD1000i shears and ACE™+7 vs. Sonicision™ curved jaw (SPD-83) and LigaSure™ coated Maryland (LF 19XX) on the ForceTriad™ and Valleylab™ FT10 energy platforms, May 17–18, 2017 and June 14, 2017.


