



From the undisputed ultrasonic leader<sup>1</sup>...

# Experience better tissue protection<sup>2</sup> with **HARMONIC® 1100 Shears**



 **Improved algorithm that actively controls blade heat**—for lower maximum blade temperature<sup>3</sup>

 **Transection speeds 35% faster**—for shorter heat exposure on tissue than HARMONIC ACE®+7 Shears with Advanced Hemostasis<sup>4</sup>

 **Curved, tapered tip**—for more precise dissection than HARMONIC ACE®+7 Shears<sup>5</sup>

	HARMONIC ACE®+7	HARMONIC® HD 1000i	HARMONIC® 1100
<b>Strong sealing<sup>6</sup></b>	●	●	●
<b>Faster transection<sup>4</sup></b>		●	●
<b>Better tissue protection<sup>2</sup></b>			●

## Improved temperature control<sup>3</sup> minimizes impact on tissue<sup>1</sup>

**Achieve greater control with lower maximum blade temperature<sup>7</sup>**

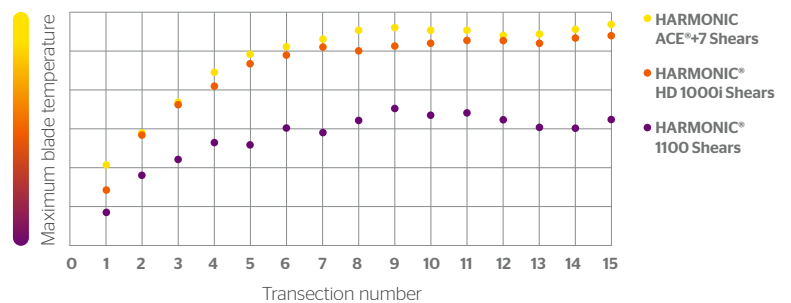
Improved Adaptive Tissue Technology algorithm<sup>3</sup>

- **Intelligently maintains blade temperature** when prolonged energy activation is required<sup>8</sup>
- **Prevents overheating of blade**, which may help protect surrounding tissue and vital structures<sup>2,8</sup>
- **Enhances tissue pad life** for continued reliability throughout the procedure<sup>9</sup>

**Reduce heat exposure on tissue with 35% faster transection speed<sup>4</sup>**

- Energy button is designed to provide the **reliable sealing** of the MIN button with the cutting speed of the MAX button of HARMONIC ACE®+7 Shears<sup>10</sup>

**HARMONIC® 1100 Shears had lower maximum blade temperature than HARMONIC ACE®+7 Shears and HARMONIC® HD 1000i Shears<sup>7</sup>**



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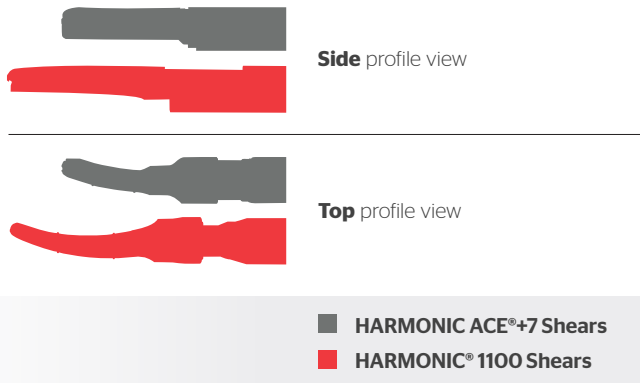
## HARMONIC® 1100 Shears

### More precise dissection with a curved, tapered tip<sup>5</sup>

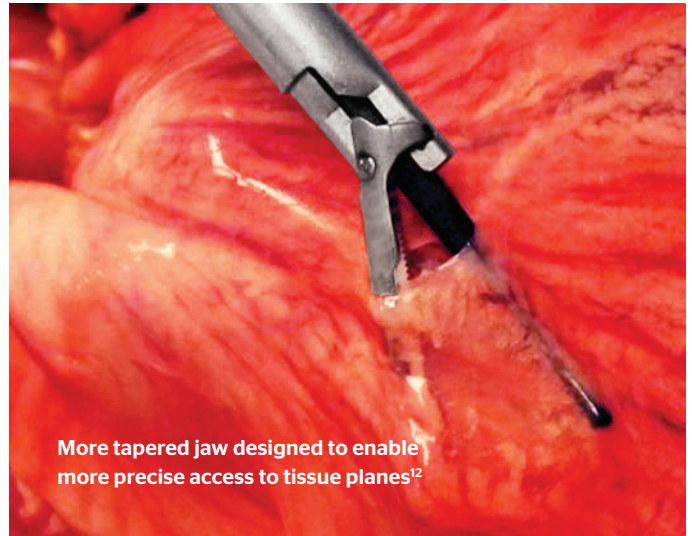
- Curved, tapered tip enables more precise dissection than HARMONIC ACE®+7 Shears with Advanced Hemostasis<sup>5</sup>
- Unique shape mimics a mechanical dissector and may reduce the need to use a separate dedicated dissecting instrument<sup>11</sup>

End effector profile differences:

#### HARMONIC® 1100 Shears vs HARMONIC ACE®+7 Shears



#### Unmatched precision<sup>5</sup>



### Experience better tissue protection with HARMONIC® 1100 Shears<sup>2</sup>

Ordering Information

PRODUCT CODES	DESCRIPTION	QUANTITY/SALES UNIT
HAR1120	HARMONIC® 1100 Shears, 20 cm length	6
HAR1136	HARMONIC® 1100 Shears, 36 cm length	6

For ordering or other questions about HARMONIC® 1100 Shears, contact your Ethicon representative

[Ethicon.com/Harmonic1100](https://www.ethicon.com/Harmonic1100)

#### References

1. Market share data compiled from Decision Resources Group. (120150-190806)
2. Based on benchtop study that showed Harmonic 1100 had 35% faster transection speed and significantly lower maximum blade temperature post-transection than Harmonic ACE+7 Shears for shorter heat exposure. (140047-200512)
3. Compared to previous generations of Harmonic devices. (140049-200512)
4. Based on bench top study with porcine vessels 3-5 mm in diameter. (138458-200427)
5. Based on preclinical evaluation. (138469-200427)
6. Based on a benchtop study with 5-7 mm porcine carotid arteries. (Burst pressure: 1878 mmHg). (057616-200427)
7. Based on benchtop study that showed Harmonic 1100 had significantly lower maximum blade temperature than Harmonic ACE+7 Shears and Harmonic HD 1000i Shears after 15 tip bite transections. (140050-200512)
8. (140051-200512)
9. Based on testing at Power Level 5. (140634-200518)
10. Seal reliability at 240 mmHg of 98.2% vs 98.4% for Harmonic ACE+7 MIN button. Speed based on average time to transect 150 mm of porcine jejunum. (050508-200422)
11. Based on a preclinical study. (057596-200427)
12. Device measurements based on a metrology study compared to Harmonic ACE+7. (057588-200427)

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