




Harmonic®

From the undisputed ultrasonic leader¹...

Experience better tissue protection² with **HARMONIC® 1100 Shears**



-  **Improved algorithm that actively controls blade heat**—for lower maximum blade temperature³
-  **Transection speeds 35% faster**—for shorter heat exposure on tissue than HARMONIC ACE®+7 Shears with Advanced Hemostasis⁴
-  **Curved, tapered tip**—for more precise dissection than HARMONIC ACE®+7 Shears⁵

	HARMONIC ACE®+7	HARMONIC® HD 1000i	HARMONIC® 1100
Strong sealing⁶	●	●	●
Faster transection⁴		●	●
Better tissue protection²			●

Improved temperature control³ minimizes impact on tissue¹

Achieve greater control with lower maximum blade temperature⁷

Improved Adaptive Tissue Technology algorithm³

- **Intelligently maintains blade temperature** when prolonged energy activation is required⁸
- **Prevents overheating of blade** which may help protect surrounding tissue and vital structures^{2,8}
- **Enhances tissue pad life** for continued reliability throughout the procedure⁹

Reduce heat exposure on tissue with 35% faster transection speed⁴

- 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 Shears¹⁰

HARMONIC® 1100 Shears had lower maximum blade temperature than HARMONIC ACE®+7 Shears and HARMONIC® HD 1000i Shears⁷



Harmonic®

HARMONIC® 1100 Shears

More precise dissection with a curved, tapered tip⁵

- Curved, tapered tip enables more precise dissection than HARMONIC ACE®+7 Shears with Advanced Hemostasis⁵
- Unique shape mimics a mechanical dissector and may reduce the need to use a separate dedicated dissecting instrument¹¹

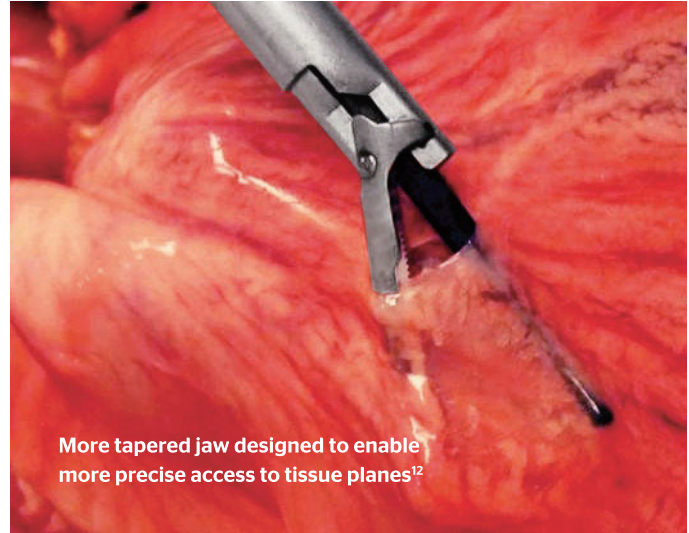
End effector profile differences:

HARMONIC® 1100 Shears vs HARMONIC ACE®+7 Shears



■ HARMONIC ACE®+7 Shears
■ HARMONIC® 1100 Shears

Unmatched precision⁵



More tapered jaw designed to enable more precise access to tissue planes¹²

Experience better tissue protection with HARMONIC® 1100 Shears²

Ordering Information

PRODUCT CODES	DESCRIPTION
HAR1120	HARMONIC® 1100 Shears, 20 cm length
HAR1136	HARMONIC® 1100 Shears, 36 cm length

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 pre-clinical study. (057596-200427)
12. Device measurements based on a metrology study compared to Harmonic ACE+7. (057588-200427)