HARMONIC™ 700
Shears with Advanced Hemostasis

Your trusted device with.....

Precise energy delivery for faster transections and reduced heat exposure[1-3]*

Delivers precise energy to minimize thermal footprint, lower mean blade temperature, and complete faster transections for reduced heat exposure.[1-3]*

Meet HARMONIC™ 700.

*Comparison vs ACE™+7. Comparison of median transection time via Mann-Whitney analysis. P-value p<0.001. Transections performed at Power Level 5 on full bite excised porcine Jejunum. 45cm shaft length.

Johnson&Johnson
MedTech

That's just smart energy

HARMONIC™ 700 Shears with Advanced Hemostasis

Replaces the HARMONIC™ ACE™+7

The next evolution of your trusted ultrasonic device

...combined the precision with smarter energy delivery for improved thermal management[4,5]*

*Improved Advanced Tissue Technology algorithm vs algorithm used in ACE+7. Pre-clinical test data are not necessarily indicative of clinical performance

HARMONIC™ technology, a leader in advanced energy with more than 33 million procedures worldwide.[6*]

Improved Adaptive Tissue Technology

HARMONIC™ 700 Shears actively controls blade temperature[1,7ð]

Delivers precise energy to tissue to minimize thermal footprint,[1,3‡] 5.57% lower mean peak blade temperature vs HARMONIC™ ACE™+7 Shears[1,7¶] and had 31.35% faster vessel transection vs HARMONIC™ ACE™+7 shears[2Ω]

Better performance

92.7% less
tissue sticking
than ACE+7[8†]

31.35% faster
vessel transections
vs HARMONIC™ ACE™+7 shears[2Ω]

7mm diameter
Vessel sealing for vessels up to and including 7mm diameter using the Advanced Hemostasis button[1,9**]

Enhanced tissue protection[1,7,8,10,11ð]

1.5mm
of lateral thermal spread[12‡]

Lower
5.57% Lower mean peak blade temperature vs HARMONIC™ ACE™+7 Shears[1,7¶]

*Global sales data and market share & insights for HARMONIC™ as of October 2021 #Improved Advanced Tissue Technology algorithm vs algorithm used in ACE™+7 ±Compared to ACE™+7. Improved Adaptive Tissue Technology algorithm was improved vs predicate ACE™+7 algorithm. Tested using simulated tissue during marching tip transections simulating sustained use ΩComparison of median transection time via Mann-Whitney analysis. p-value p<0.001. Transections performed at Power Level 5 on full bite excised porcine Jejunum.45cm shaft length. Pre-clinical test data are not necessarily indicative of clinical performance †p<0.001 comparison of ACE+7 to HARMONIC™ 700, In Vivo porcine carotid. Based on pre-clinical testing on animal models and clinical effect is unknown ðImproved Adaptive Tissue Technology algorithm vs Algorithm in ACE™+7 ‡HAR736 tested in vivo, porcine carotid. MAX mode at power level 5 used for vessels up to 2mm in diameter. MIN mode at power level 3 used for vessels larger than 2mm up to 5mm in diameter. Measured via histopathology. Based on pre-clinical testing on animal models and clinical effect is unknown ¶p< 0.001 using simulated tissue media in distal 1/3 of jaw. Using mean of peak temperatures after system achieved steady state temperature with repeated, extended activations. Percentage calculated relative to 0° C. Adaptive Tissue Technology improved over algorithm in ACE™+7. Pre-clinical test data are not necessarily indicative of clinical performance **7mm seal only when using the Advanced Hemostasis button. δVersus HARMONIC™ ACE+7

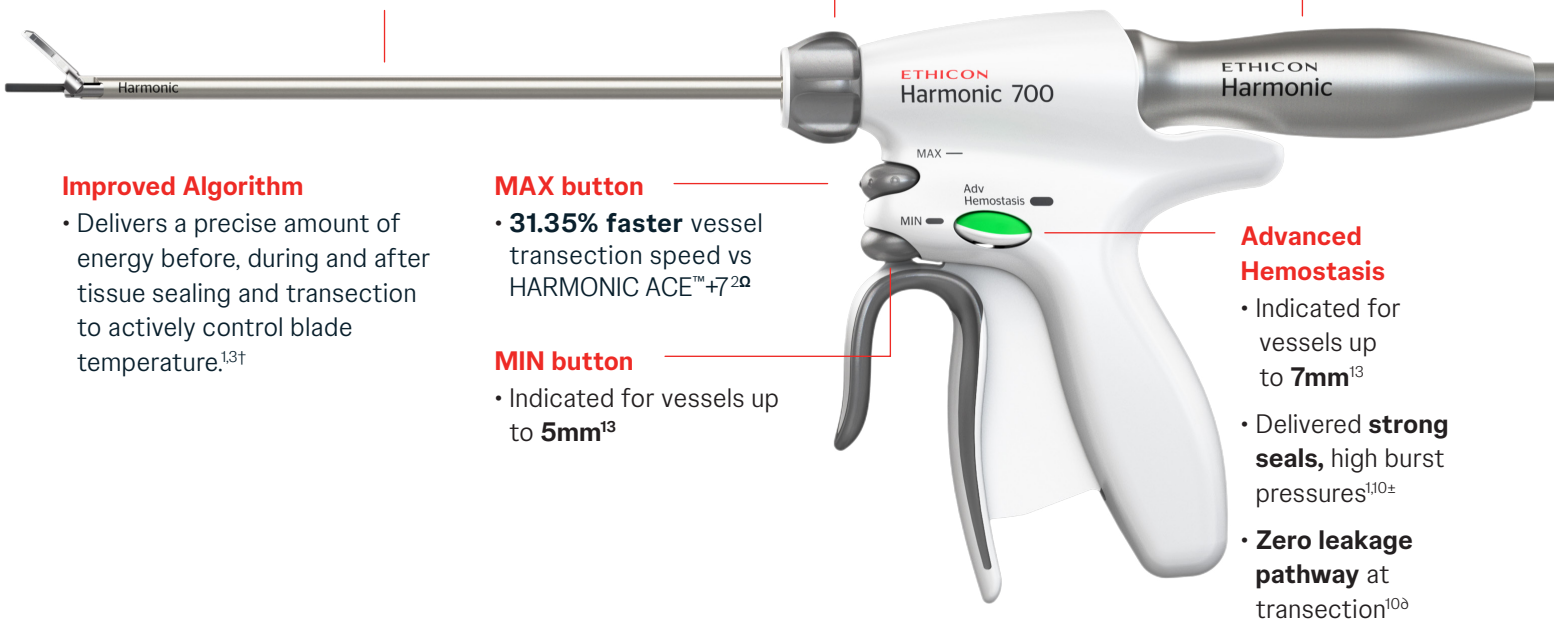
HARMONIC™ 700 SHEARS WITH ADVANCED HEMOSTASIS

Precise energy delivery.[1] Improved versatility.[1]

Open, Laparoscopic, and Bariatric shaft lengths
- 23 cm, 36 cm, and 45 cm

Rotation knob
- **360°** shaft rotation[6]

Hand piece
- **Compatible** with HARHPGR handpieces



Improved Algorithm
- Delivers a precise amount of energy before, during and after tissue sealing and transection to actively control blade temperature.[1,3†]

MAX button
- **31.35% faster** vessel transection speed vs HARMONIC ACE™+7[2Ω]

MIN button
- Indicated for vessels up to **5mm**[13]

Advanced Hemostasis
- Indicated for vessels up to **7mm**[13]
- Delivered **strong seals,** high burst pressures[1,10±]
- **Zero leakage pathway** at transection[10ð]

Indicated for sealing vessels up to and including 7mm in diameter[14]

Tissue pad
- **5x better tissue pad life** than ACE™+7 Shears[1,3,9‡]

Curved, tapered blade
- **92.7% less** tissue sticking vs HARMONIC ACE™+7[7¥]
- **5.57% lower mean** peak blade temperature vs HARMONIC™ ACE™+7 Shears[1,3∞]

*Compared to ACE+7 and devices with older versions of Adaptive Tissue Technology. Adaptive Tissue Technology improved over algorithm in ACE+7. Pre-clinical test data are not necessarily indicative of clinical performance †Improved Advanced Tissue Technology algorithm vs algorithm used in ACE™+7 ΩComparison of median transection time via Mann-Whitney analysis. p-value p<0.001. Transections performed at Power Level 5 on full bite excised porcine Jejunum.45cm shaft length. Pre-clinical test data are not necessarily indicative of clinical performance ±Sealing of ex vivo 5-7mm diameter porcine vessels showed median burst pressure of >1800 mmHg. Adaptive Tissue Technology improved vs ACE™+7 ðTHAR736 Advanced Hemostasis mode on 80 cuts of porcine ex-vivo vessels. HARMONIC™ 700 leaks at transection = 0/79. Based on benchtop testing and clinical effect is unknown. ‡During repeated, extended activations on porcine jejunum. Adaptive Tissue Technology improved vs ACE™+7 algorithm. Pre-clinical test data are not necessarily indicative of clinical performance ¥p<0.001 comparison of ACE+7 to HARMONIC™ 700, In Vivo porcine carotid. Based on pre-clinical testing on animal models and clinical effect is unknown ∞p< 0.001 using simulated tissue media in distal 1/3 of jaw. Using mean of peak temperatures after system achieved steady state temperature with repeated, extended activations. Percentage calculated relative to 0° C. Adaptive Tissue Technology improved over algorithm in ACE™+7. Pre-clinical test data are not necessarily indicative of clinical performance

ELEVATING
THE ART OF PRECISION
FOR 30 YEARS

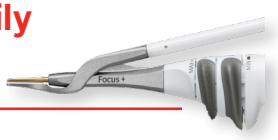
HARMONIC™ Portfolio

HARMONIC™ 1100

HARMONIC™ 700

HARMONIC™ ACE™+

HARMONIC™ FOCUS™+ Family



	HARMONIC™ 1100	HARMONIC™ 700	HARMONIC™ ACE™+	HARMONIC™ FOCUS™+ Family
Surgical Application	Ideal for dissection to help you overcome your toughest challenges	Ideal for a variety of surgical procedures	Ideal for non-complex procedures without large vessels	Ideal for most open procedures in the upper body
Vessel Sealing	Coagulation of vessels up to and including 7 mm in diameter, using the Advanced Hemostasis hand control button.[14]	Coagulation of vessels up to and including 7 mm in diameter, using the Advanced Hemostasis hand control button.[13]	Coagulation of vessels up to and including 5 mm[15]	Coagulation of vessels up to and including 5 mm[16]
Blade Design	Longest ultrasonic blade on the market to capture large vessels and tissue bundles prior to transection[17-19]*	Coated curved blade[13]	Coated curved blade[15]	Slim blade design
Smart Energy Delivery[20]†	Improved Adaptive Tissue Technology[21]±	Improved Adaptive Tissue Technology[1,7]±	Adaptive Tissue Technology	Adaptive Tissue Technology
Sizes	20 cm, 36 cm	23 cm, 36 cm, 45 cm	23 cm, 36 cm	9 cm, 17 cm
Handpiece	None required	HARHPGR	HARHPGR	HARHPBL

Through great surgical precision, HARMONIC™ continues to enable smart energy delivery and versatility in sealing and dissection[1]

*Device measurements based on a 2016 metrology study (median cut length 18.87mm vs. 14.80mm for Sonicision™ SCDA39 and 16.90mm for THUNDERBEAT Type S)
±Compared to previous generations of HARMONIC™ devices

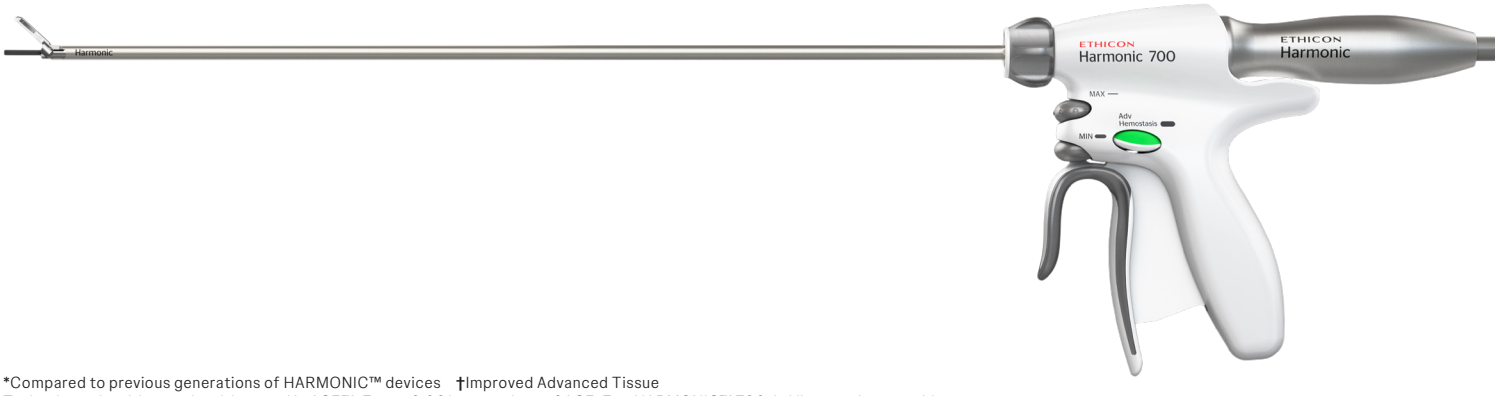
Ordering information

Ethicon code	Product name	Description
HAR1120	HARMONIC™ 1100 Shears with Advanced Hemostasis	Ultrasonic shears 5mm diameter 20 cm shaft length
HAR1136	HARMONIC™ 1100 Shears with Advanced Hemostasis	Ultrasonic shears 5mm diameter 36 cm shaft length
HAR723	HARMONIC™ 700 Shears with Advanced Hemostasis	Ultrasonic shears 5mm diameter 23 cm shaft length
HAR736	HARMONIC™ 700 Shears with Advanced Hemostasis	Ultrasonic shears 5mm diameter 36 cm shaft length
HAR745	HARMONIC™ 700 Shears with Advanced Hemostasis	Ultrasonic shears 5mm diameter 45 cm shaft length
HAR23	HARMONIC™ ACE™+ Shears	Ultrasonic shears 5mm diameter 23 cm shaft length
HAR36	HARMONIC™ ACE™+ Shears	Ultrasonic shears 5mm diameter 36 cm shaft length
HAR9F	HARMONIC™ FOCUS™+ Shears	Ultrasonic shears 9 cm shaft length
HAR17F	HARMONIC™ FOCUS™+ Long Shears	Ultrasonic shears 17 cm shaft length
GEN11	ETHICON GEN11 Generator	Generator compatible with all HARMONIC™ and ENSEAL™ devices
FSW11	ETHICON Generator Accessories	Foot switch and cable
HARHPGR	HARMONIC™ Gray Hand Piece	Compatible with HAR723, HAR736, HAR745, HAR23, HAR3
HARHPBL	HARMONIC™ Blue Hand Piece	Compatible with HAR9F, HAR17F, SNGCB, SNGHK, SNGHK2

HARMONIC™ 700
Shears with Advanced Hemostasis

Smart energy delivery[20*]
Improved versatility.[1]

- Improved Adaptive Tissue Technology algorithm[3,5†]
- Better performance[2,8±Ω]
- Enhanced tissue protection[1,7,8,10,11††]



*Compared to previous generations of HARMONIC™ devices †Improved Advanced Tissue Technology algorithm vs algorithm used in ACE™+7 ±p<0.001 comparison of ACE+7 to HARMONIC™ 700, In Vivo porcine carotid. Based on pre-clinical testing on animal models and clinical effect is unknown Ω Comparison of median transection time via Mann-Whitney analysis. p-value p<0.001. Transections performed at Power Level 5 on full bite excised porcine Jejunum.45cm shaft length. Pre-clinical test data are not necessarily indicative of clinical performance ††Improved Adaptive Tissue Technology algorithm vs Algorithm in ACE™+7 ‡HAR736 tested in vivo, porcine carotid. MAX mode at power level 5 used for vessels up to 2mm in diameter. MIN mode at power level 3 used for vessels larger than 2mm up to 5mm in diameter. Measured via histopathology ðp< 0.001 using simulated tissue media in distal 1/3 of jaw. Using mean of peak temperatures after system achieved steady state temperature with repeated, extended activations. Percentage calculated relative to 0° C. Adaptive Tissue Technology improved over algorithm in ACE™+7. Pre-clinical test data are not necessarily indicative of clinical performance

References: 1. Ethicon, 500951334, Harmonic 700 (HAR723, HAR736, and HAR745) Claims Rationale, April 2022, Data on File **2.** Ethicon, 500898990A, Gemini Claims Testing – Transection Speed, March 2022, Data on File 3. Ethicon, 501068549A Thermal Protection Memo, Aug 2022, Data on File **4.** Ethicon Harmonic 700 (HAR723, HAR736, and HAR745) Claims Rationale.16/05/2022. Windchill document #500951334A **5.** Ethicon Project Gemini - Draft thermal protection memo, 03/09/2022. Windchill document #501068549A **6.** Ethicon, 01102021, ETHICON Energy Historical Units, Oct 2021, Data on File **7.** Ethicon, 500774462A Gemini Claims Testing – Distal Shaft, Clamp Arm, Blade Temp, July 2021, Data on File **8.** Ethicon, 501001842A, Gemini Claims Rationale, May 2022, Data on File **9.** As Per Instructions For Use **10.** Ethicon, 500648351A, Gemini Claims Testing – Burst Pressure/Sealing, Nov 2021, Data on File **11.** Ethicon, 500660295B, Gemini Claims Testing – General Design Intent, Feb 2021, Data on File **12.** Ethicon, PRE 21-0117, project GEMINI: hemostasis and thermal spread study of HARMONIC™ 700 laparoscopic shears (HAR736) compared to Sonicision curved jaw (scda39) and to Thunderbeat Type S (TB-0535FCS) in an acute porcine model, June 2022, Data on File **13.** HARMONIC™ 700, 5mm Diameter Shears with Advanced Hemostasis Instructions For Use **14.** HARMONIC™ 1100 Shears Instructions For Use **15.** HARMONIC™ ACE+ Shears Instructions For Use **16.** HARMONIC™ FOCUS+ Shears Instructions For Use **17.** Ethicon, PRC074607A, Buccaneer Metrology Claims, March 2016, Data on File **18.** thicon, PSP004867A, Project Buccaneer HARMONIC® HD 1000i Laparoscopic Shears (HARHD36): Design Verification Chronic (30 day) Survival Study in the Pig, March 2016, Data on File **19.** Ethicon, SCN075090A, Scarlet Witch Physical Equivalence, April 2020, Data on File **20.** Ethicon, PRC095370C, Project Scarlet: Blade Temperature, May 2020, Data on File **21.** Ethicon Project Scarlet: Blade Temperature, 20/04/2021. Windchill Document #PRC095370E

Please refer always to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.

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