



## *Performance That Is Miles Ahead.\**

Harmonic Scalpel, The Precise Instrument, now offers the Generator 300 and advanced handpiece with optional hand activation. Taking precision and performance to a new level.

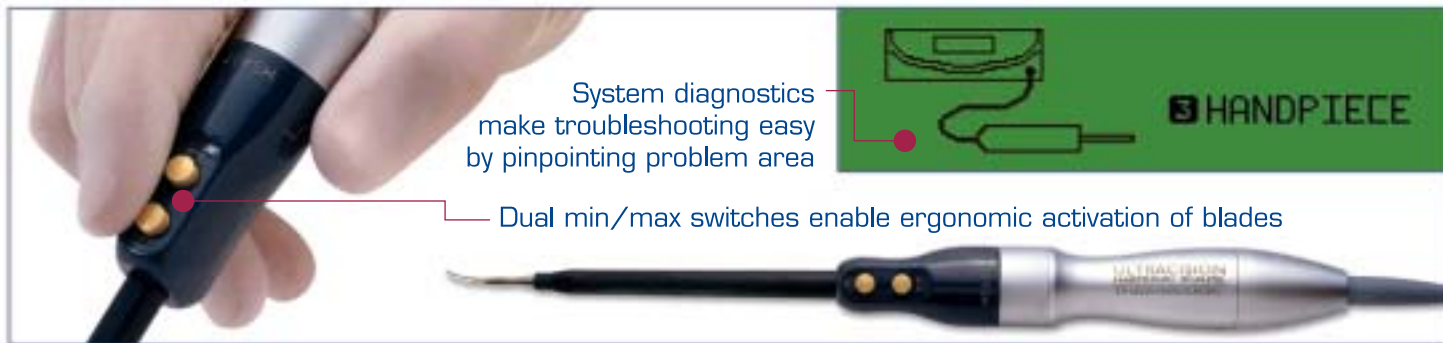
### *Improved Performance*

- Improved power delivery supports consistent cutting performance.\*
- Maintains power delivery under greater tissue loads.\*

### *Ease of Use*

- Rotating hand-switching adapter with min/max switches enables precise operation of system by hand.
- System diagnostics and troubleshooting guide pinpoint system issues for quicker resolution of alert/alarm conditions.\*
- Intuitive control panel with large graphic display, configurable audio tones, and dual ergonomic foot controls.

\* When compared with previous Harmonic Scalpel systems.



## ORDERING INFORMATION

PRODUCT CODE	PRODUCT DESCRIPTION	PIECES/SALES UNITS
GEN04	<b>Generator</b> Power supply to drive the Harmonic Scalpel System (100-240 VAC).	1
FSW01	<b>Foot Switch and Cable</b> Bipedal foot switch for activation of the Harmonic Scalpel blades and shears at a maximum or minimum power level. Immersible for cleaning.	1
CRT01	<b>Generator Cart</b> Generator cart for storage of generator, foot switches and accessories.	1
HPO54	<b>Handpiece</b> Multipatient use. Nonsterile, must be sterilized prior to use.	1
HPO55	<b>Handpiece</b> Multipatient use. Nonsterile, must be sterilized prior to use.	2
HSA07	<b>Hand-Switching Adaptor</b> Multipatient use. Nonsterile, must be sterilized prior to use. Compatible with 5mm blades.	1

### We're here for you — at our Customer Response Center

Through the Customer Response Center, you can request technical assistance, information assistance, sales representative support, complaint handling services, product information, and warranty verification on capital equipment.

The Customer Response Center is available weekdays during the hours of 7 a.m. to 7:30 p.m. (EST). At other times, you will be asked to leave a message and will be called back within 10 minutes.

	<b>U.S.</b>	<b>International</b>
For clinical information	1-800-USE-ENDO Pick 1	1-513-337-8901 Pick 1
For technical support	1-800-USE-ENDO Pick 2	1-513-337-8901 Pick 2

For complete product details, see instructions for use.

Visit our web site at [www.harmonicscalpel.com](http://www.harmonicscalpel.com)

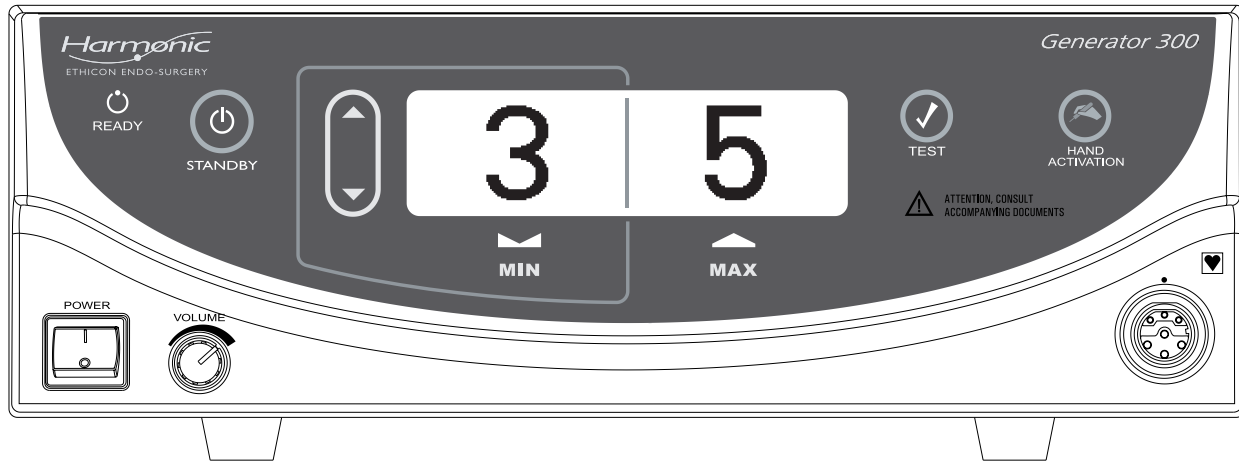
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ENDO 688 DSL 03-0327 Rev. 3/03

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# HARMONIC™ Generator 300 System

## Service Manual



<b>Product Codes</b>	<p><b>Required Components for System Operation:</b>          GEN04: Generator 300          HP054/HP055: Hand Piece (includes HST02 Test Tip and TLB01 Torque Blade Wrench)<sup>1</sup></p> <p><b>Instruments and Adaptors:</b>          Contact your Ethicon Endo-Surgery representative for information about instruments available for use with this system. Some instruments may require use of an adaptor.</p> <p><b>Optional Components:</b>          FSW01: Foot Switch<sup>2</sup>          HSA07: Hand Switch<sup>1,2</sup>          CRT01: Cart</p> <p><sup>1</sup> Refer to separate product insert supplied with this component.  <sup>2</sup> At a minimum, either the foot switch or the hand switching adaptor is required to operate the generator. When the hand switching adaptor is used, availability of the foot switch is recommended.</p>
<b>Degree of Protection Against Electric Shock</b>	Type CF Applied Part
<b>Class of Protection Against Electric Shock</b>	Class I
<b>Safety Standards</b>	EN 60601
<b>Degree of Protection Against Harmful Ingress of Water</b>	Generator: Ordinary equipment Footswitch: IPX8
<b>Safety Classification</b>	UL 2601-I CSA C22.2 601.1 EN 60601-I
<b>Mains Input</b>	Voltage: 100-240 VAC Frequency: 50/60 Hz Current Consumption: 3 amp
<b>Ambient Operating Conditions</b>	Temperature 10°C to 40°C Humidity: 10-90% non-condensing Atmospheric Pressure Range: 700hPa-1060hPa
<b>Transport and Storage Conditions</b>	Temperature: -35°C to +54°C Humidity: 10-95% non-condensing Atmospheric Pressure Range: 700hPa-1060hPa

<b>Date of Manufacture</b>	The date of manufacture may be determined by viewing the serial number on the rear panel of the generator. The fourth and fifth characters indicate the year of manufacture as follows: GN401 = year 2001 GN402 = year 2002 GN403 = year 2003 GN404 = year 2004 GN405 = year 2005 GN406 = year 2006 GN407 = year 2007
<b>Power Cord</b>	<b>The GEN04 is supplied with a North American removable power cord set</b> with the following characteristics: Plug Style: NEMA 5-15 (clear) North American Hospital Grade Receptacle: IEC 60320 C13 with straight non-angled cord entry Cord Length: 4.6 meters nominal Current Rating: 13A Voltage Rating: 125 VAC minimum Wiring Code: North American Cordage Description: SJT (UL) or SJT (CSA) Conductors: 16 AWG 3C Agency Approvals Required: UL and CSA  <b>If an International power cord is required, the user should select a removable power cord set</b> with the following characteristics: Plug Style: as needed by particular country requirements Receptacle: IEC 60320 C13 with straight non-angled cord entry Cord Length: 2.44 - 4.6 meters nominal Current Rating: 10A Minimum conductor size cross-sectional area: 1.0 mm <sup>2</sup> copper Voltage Rating: 250 VAC minimum Wiring: international Cordage Type: HAR Item to have certification by at least one of the following agencies: VDE, ASTA, SEMKO, KEMA, LCIE, DFT, IMQ, SEV
<b>Duty Cycle</b>	Duty Cycle is determined by hand piece and instrument in use. For duty cycle information, refer to applicable instrument(s) and hand piece inserts and/or Chapter 7 – Warnings and Precautions of the Generator 300 System User Manual.
<b>Weight (unpacked)</b>	Generator: 7.48 kg nominal Cart: 42.0 kg nominal
<b>Overall Dimensions</b>	Generator 300 (HxWxD): 5.3" (13 cm) x 14.5" (37 cm) x 15.2" (39 cm)  Cart (HxWxD): 37.3" (95 cm) x 17.7" (45 cm) x 27.6" (70 cm), including handle
<b>Disposal</b>	Some internal components of the generator, foot switch and foot switch cable contain lead. Disposal should be performed according to local requirements and regulations.