

Megadyne™

Healing starts with OR safety

Designed to enhance OR safety, MEGADYNE™ offers electrosurgery products that can help you reduce potential risks of exposure to surgical smoke, sharps injuries and burns



Surgical smoke

- According to the CDC, exposure to surgical smoke can cause both acute and chronic health effects¹
- Health effects range from eye, nose and throat irritation to emphysema, asthma or chronic bronchitis¹
- Megadyne telescoping soft tissue dissectors produced 99.6% less surgical smoke vs. stainless steel monopolar electrosurgery, which may allow for better surgical site visibility⁵



Sharps injuries

- 17% of sharps injuries in OR attributed to scalpel blades²
- Up to \$154 million spent annually on scalpel-related injuries³



Burns

- 29% of all energy-based device complications reported to the FDA are pad-site burns, and the risk of a pad-site burn injury is increased when the current is concentrated⁴

Ethicon Energy Solutions. Healing first.

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Shaping
the future
of surgery

References: **1.** NIOSH Study Finds Healthcare Workers' Exposure to Surgical Smoke Still Common. Nov 3, 2015. (075012:190205) **2.** Jagger J, Berguer R, Phillips EK, Parker G, Gomaa AE; American Journal of Surgery; Apr;210(4):496-502. doi: 10.1016/j.jamcollsurg.2009.12.018. (126599-191029) **3.** Injuries incurred by hospital-based healthcare personnel. Workbook for Designing, Implementing, and Evaluating a Sharps Injury Prevention Program, Centers for Disease Control and Prevention, 2008. (078291-191029) **4.** Overbey DM, Townsend NT, Chapman BC, et al. Surgical Energy-Based Device Injuries and Fatalities Reported to the Food and Drug Administration. Journal of the American College of Surgeons 2015;221:197-205 e1. **5.** In a preclinical porcine model vs. uncoated stainless steel blades at 60W analyzed via spectrophotometer and HPLC UV ($P<0.001$). Kisch T, et al. Electrocautery Devices With Feedback Mode and Teflon-Coated Blades Create Less Surgical Smoke for a Quality Improvement in the Operating Theater. Medicine, 2015;94(27)

The MEGADYNE™ Smoke Evacuation portfolio

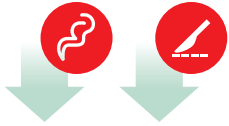
MEGADYNE™ MEGA SOFT™ Reusable Patient Return Electrodes



- Helps prevent pad-site burns by limiting heat buildup
- Used in more than 100 million procedures worldwide



MEGADYNE ACE BLADE™ 700 Soft Tissue Dissector



- Can eliminate the need for a surgical scalpel in the OR, removing a risk for sharps injuries¹
- 99.6% less surgical smoke compared to stainless steel monopolar electrocautery²



MEGADYNE™ Smoke Evacuation Pencil



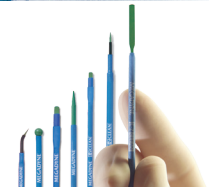
- Adjustable length of the shaft helps position the smoke evacuation tip closer to the surgical site; designed to provide efficient smoke evacuation
- Designed for full 360-degree swivel for maximum procedural flexibility



MEGADYNE™ E-Z CLEAN™ Electrocautery Electrodes



- E-Z CLEAN™ Electrodes, with PTFE coating, are easily cleaned with a damp sponge
- Produces 68% less smoke³



MEGADYNE™ Smoke Evacuator



- Delivers effective and quiet performance for open and laparoscopic procedures⁴
- Automatically activates with monopolar, bipolar, ultrasonic and advanced bipolar



MEGADYNE™ Electrocautery Generator



- Designed to optimize energy delivery to minimize tissue damage through proprietary software and algorithms⁵
- 100% of nurses agreed the MEGADYNE™ Electrocautery Generator is easy to use⁶



Find out how to get started at: ethicon.com/SafeOR

For complete indications, contraindications, warnings, precautions, and adverse reactions, please reference full package insert. ©2020 Ethicon US, LLC. All rights reserved. 159515-201117

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References: **1.** In a clinical study vs. cold steel scalpel that demonstrated noninferior wound healing/scar formation via the Patient Scar Assessment Scale (PSAS) ($P < 0.0001$). Lee BJ, et al. Advanced Cutting Effect System versus Cold Steel Scalpel: Comparative Wound Healing and Scar Formation in Targeted Surgical Applications. *Plast Reconstr surgery Glob open.* 2014;2(10). (075570-190801) **2.** In ACE Mode vs. standard monopolar electrocautery: In a preclinical porcine model vs. uncoated stainless steel blades at 60W ($p < 0.001$). Kisch T, et al. Electrocautery Devices with Feedback Mode and Teflon-Coated Blades Create Less Surgical Smoke for a Quality Improvement in the Operating Theater. *Medicine.* 2015;94(27). (075563-190304) **3.** In a preclinical porcine model at 60W vs. uncoated stainless steel blades at 60W ($P < 0.001$). Kisch T, et al. Electrocautery Devices With Feedback Mode and Teflon-Coated Blades Create Less Surgical Smoke for a Quality Improvement in the Operating Theater. *Medicine.* 2015; 94(27). (074999-190121) **4.** Captures and filters 99.999% of particulates and microorganisms 0.1 to 0.2 microns, at 50 +/- 10 dBa per IEC 60601-1 @ 1m (100280-181008). **5.** When used with a MEGADYNE™ ACE/GEM electrode. (132814-200218). **6.** 18 out of 18 (100%) nurses surveyed agreed following use of the generator in a preclinical assessment. Refer to Operator's Manual for full instructions for use. (127010-191105)