

Megadyne™

# Everything you want. Plus less.

Efficiency and hemostasis **plus less thermal damage**<sup>1</sup>



Introducing the MEGADYNE ACE BLADE™ 700 Soft Tissue Dissector powered by patented Geometric Electron Modulation (GEM) Technology. This intelligent energy technology delivers the efficiency and hemostasis you want with significantly **less thermal damage**<sup>1</sup> than standard monopolar electrosurgery.

## Intelligently delivered by Geometric Electron Modulation (GEM) Technology

GEM Technology achieves a scalpel-like cutting effect<sup>2</sup> by creating a **low voltage plasma**. This technology optimizes the voltage for the blade geometry and modulates power based on tissue impedance. It focuses energy to the tapered edges of the MEGADYNE ACE BLADE 700 Dissector and delivers the minimum power required to cut the tissue.

Together, focused energy and modulated power deliver significantly **less thermal damage**,<sup>2</sup> making possible:



### + Less instrument exchange vs. scalpel

This multifunctional tool can be used for incision, coagulation and dissection, which may **increase surgical efficiency**

- Can eliminate the need for a surgical scalpel in the OR, **removing a risk for sharps injuries**<sup>3</sup>



### + Less surgical smoke

**99.6% less hazardous surgical smoke** compared to stainless steel monopolar electrosurgery<sup>4</sup>

- **97% reduction in toxic BaP**, a known carcinogen, and **75% reduction in phenanthrene**, a known irritant<sup>4</sup>



### + Less tissue temperature increase

**84% less tissue temperature increase** versus stainless steel monopolar electrosurgery<sup>5</sup>

It all adds up to **intelligent energy technology** that delivers everything you want with less of the things you don't.

<sup>1</sup> In ACE Mode vs. standard monopolar electrosurgery. In a preclinical porcine model on abdominal wall dermis that measured thermal damage via histology (p<0.05). (075571-170630) <sup>2</sup> In ACE Mode vs. standard monopolar electrosurgery. Based on proprietary GEM Technology and preclinical porcine testing on abdominal wall dermis that measured thermal damage via histology (p<0.05). GEM Technology and test results are achieved when used on the MEGADYNE™ MEGA POWER™ Electrosurgical Generator in ACE Mode only. (083163-171027, 083164-171027, 083165-171027) <sup>3</sup> 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). (075570-170630) <sup>4</sup> In ACE Mode vs. standard monopolar electrosurgery. 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). (075563-170630). <sup>5</sup> In ACE Mode. In a preclinical porcine model vs. uncoated stainless steel blades at 60W analyzed via infrared thermometer (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). (075560-170630)

## Areas of procedural focus

### For use in soft tissue cutting and coagulation

- Orthopedic surgery: hip, knee and spine
- Plastic surgery
- Breast oncology surgery



## Ordering information

The MEGADYNE ACE BLADE 700 Dissector is available in two blade types, and all blades come pre-installed in the MEGADYNE™ ZIP-PEN™ Smoke Evacuation Pencil.

The MEGADYNE™ MEGA POWER™ Electrosurgical Generator is required to obtain the scalpel-like cutting effects<sup>2</sup> of the MEGADYNE ACE BLADE 700. Ethicon recommends the use of the MEGADYNE™ Mega Vac PLUS Smoke Evacuator and accessories for maximum smoke evacuation.<sup>6</sup>

### MEGADYNE ACE BLADE™ 700 Dissector

CODE	BLADE LENGTH	BLADE TYPE		SMOKE EVACUATION PENCIL	CONNECTOR TYPE	QUANTITY PER SALES UNIT
ME7251C	2.5 inches	Standard		ZIP-PEN	C	6
ME7251E	2.5 inches	Standard		ZIP-PEN	E	6
ME725MIC	2.5 inches	Modified		ZIP-PEN	C	6
ME725MIE	2.5 inches	Modified		ZIP-PEN	E	6

### Connector compatibility guide

#### C CONNECTOR (STANDARD)

	MEGADYNE™ Mega Vac Smoke Evacuator
	MEGADYNE™ Mega Vac MAX Smoke Evacuator
	MEGADYNE™ Mega Vac PLUS Smoke Evacuator
	MEGADYNE™ MINI VAC™ Smoke Evacuator (MGVS353 Fluid Trap with use of 2151 22mm Adapter only)
	ConMed AER DEFENSE™
	Buffalo Filter ViroVac®
	Buffalo Filter VisiClear®
	Medtronic RapidVac™

#### E CONNECTOR (EC)

	MEGADYNE™ MINI VAC™ Smoke Evacuator
	Buffalo Filter ViroVac®
	Buffalo Filter VisiClear®
	Erbe IES
	LiNA SafeAir®
	Stryker Neptune® (compatible with use of MGVS353 Fluid Trap only)

For more information, visit: [ethicon.com/MegadyneAceBlade700](https://ethicon.com/MegadyneAceBlade700)

### How to order

All purchase orders are made to Johnson & Johnson Health Care Systems, Inc. (JJHCS).

If you want to order direct, you may order electronically (online) at:

- <https://us.jjcustomerconnect.com> or 1-866-565-4283
- Electronic Data Interchange (EDI)—EDI Helpline: 1-800-262-2888

Or, to place a non-electric (manual) order, contact Johnson & Johnson Health Care Systems Inc. at 1-800-255-2500 between 8:30am - 6:30pm (Eastern Standard Time) or fax us at 1-732-562-2212.

### Customer support

For product use assistance, clinical guidelines, service and repair, emergency assistance, copy of a 510(k) clearance letter, or complaints, please contact our Customer Support Center by calling 877-ETHICON (384-4266). Our support center is staffed 24 hours a day, 7 days a week by qualified nurses to answer your product-related questions.

<sup>2</sup> In ACE Mode vs. standard monopolar electrosurgery: Based on proprietary GEM Technology and preclinical porcine testing on abdominal wall dermis that measured thermal damage via histology (p<0.05). GEM Technology and test results are achieved when used on the MEGADYNE™ MEGA POWER™ Electrosurgical Generator in ACE Mode only. (083163-171027, 083164-171027, 083165-171027)

<sup>6</sup> Per Instructions for Use. (075006-170621)