

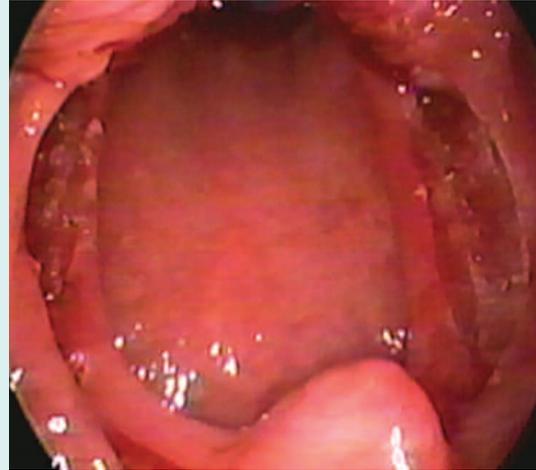
Head and Neck Procedures

Using Thermal Fusion Technology

Microline Surgical's patented Thermal Fusion technology utilizes direct heat and pressure to delicately seal and divide soft tissue. This offers a two-fold benefit over conventional monopolar and bipolar devices:

- Unique technology provides precise heating and division of target tissue, minimizing thermal spread.
- No electrical current is required to pass through the patient allowing for fully functional nerve monitoring during procedures.¹

Microline Surgical provides ENT surgeons with precision, safety, and confidence in their procedures.



“ENTceps is a champion. This is evident in the faces of my patients when they come to me three or four days following a procedure with no pain and ready to resume their lives. The kids don't even notice the surgery – I've seen them running around and enjoying themselves the very next day.”

— *Alfredo G. Festa, M.D.*
Hoboken University Medical Center

Clinical Benefits:

- No electrical energy required to pass through the patient
- Minimal thermal spread
- Safe to use near delicate structures
- Permits continuous nerve monitoring¹
- Less intra-operative bleeding^{2,3}
- Less char and smoke, enabling surgeon to clearly view the tissue planes

Patient Benefits:

- Reduction in post-operative pain^{2,3}
- Faster return to normal diet³
- Reduced post-operative bleeding^{2,3}

Procedural Benefits:

- High level of precision and control
- Easy to use and short learning curve
- Multipurpose instruments that can be used for grasping, dissecting, sealing and dividing
- Easy set up

MICROLINETM
SURGICAL

Confidence, simply delivered.

MiFusion ENTceps™ CAT #110-005D

ENTceps is a bayonet forceps for soft tissue sealing and dividing.



MiFusion MicroCeps™ CAT #100-008D

MicroCeps is a straight forceps featuring a smaller tip for more delicate dissection and sealing of smaller vessels.



MiFusion TLS³ 14C CAT #132-134D

TLS³ 14C is a 14cm two-speed, hand activated instrument featuring enhanced sealing and dissecting capabilities.



MiFusion Universal Power Supply (UPS)
CAT #200-006R

Microline's Universal Power Supply (UPS) is compatible with the company's entire product suite. The UPS is a compact, three-pound, reusable power source that can hang from an IV pole or sit on a tabletop.



	ENTceps	MicroCeps	TLS ³
Tonsillectomy	■		
Thyroidectomy	■		■
Parotidectomy	■	■	
Plastics	■	■	

References:

[1] Michel R, Tsau K, Weinstock B. Tissue Welding Forceps Usage in Superficial Parotidectomy: A Clinical Assessment. *The American Surgeon*, January 2008.

[2] Stavroulaki P, Skoulakis, C, Theos E. et al. Thermal Welding Versus Cold Dissection Tonsillectomy: A Prospective, Randomized, Single-Blind Study in Adult Patients. *Annals of Otolaryngology, Rhinology & Laryngology*, August 2007.

[3] Karatzias G, Lachanas V, Sandris V. Thermal Welding Versus Bipolar Tonsillectomy: A Comparative Study. *Otolaryngology – Head and Neck Surgery*, June 2006.



Confidence, simply delivered.

Microline Surgical develops and manufactures high precision reusable laparoscopic surgical instruments, in addition to a broad spectrum of instruments used to seal and divide tissue, utilizing proprietary Thermal Fusion technology.

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