



Confidence, simply delivered.

What We Do

Microline Surgical designs, develops, manufactures and markets a broad range of open and minimally invasive instruments that offer high quality and precision, combined with ease of use and cost effectiveness. MiFusion employs a patented Thermal Fusion technology that simultaneously seals and divides soft tissue with only direct heat and pressure, minimizing collateral damage. Effective, reliable and versatile, Microline's products are used worldwide for cardiac, gynecological, general, otolaryngological and urological procedures.

Thermal Fusion Technology

How It Works

In order to seal and divide soft tissue, protein bonds must be denatured. While other technologies pass energy through the tissue to create heat, Microline's Thermal Fusion achieves denaturation solely through the application of direct heat and pressure.

Simultaneously Seals and Divides

A resistive heating element in the jaw of the device heats only the tissue in contact with it. A low-temperature coagulating zone seals the tissue while an extremely narrow high-temperature zone divides the tissue simultaneously.

MiFusion Advantages

Extensive surgeon input has resulted in an unparalleled seal and divide system with the following benefits:

- **Safety** - No electrical or ultrasonic energy is required to pass through the patient

- **Ease of Use** - Intuitive and simple, surgeons quickly become proficient
- **Versatility** - Can be used as graspers, dissectors and to seal and divide, minimizing instrument exchange
- **Constant Visibility** - Minimal smoke and water vapor
- **Expedited Procedures** - Simple set-up and operation saves valuable OR and procedure time
- **Comfort** - Our ergonomic designs ensure control and precision
- **Audible Tones** - Low and high tones aid in timing coagulating and cutting cycles

Results

Surgeons trust MiFusion because of the simple and reliable way our instruments seal and divide tissue. Clinical results include:

Cardiac Surgery

- 100% successful harvest rate, 0% post-operative neurovascular complications or infections, 50% cost reduction

ENT / Head and Neck Surgery

- No intra-operative blood loss, lower pain scores, lower post-operative edema, faster return to normal diet and reduction in re-hospitalizations







General Surgery

- Decreased post-operative pain, decreased post-operative drainage, reduced need for multiple instruments, suture ties and/or clips, no neuromuscular stimulation

All clinical data on file.



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PRODUCT TYPE	IMAGE	NAME	DESCRIPTION	MODEL #
DISPOSABLE FORCEPS (includes power cord)		CardioForceps	Footswitch activated, hand-held forceps	100-006D
		ENTceps	Fine precision, footswitch-activated forceps, bayonet arm	110-005D
		MicroCeps	Fine precision, footswitch-activated forceps, straight arm	100-008D
DISPOSABLE THERMAL LIGATING SHEARS (includes power cord)		STLS 35C	Single speed, 5mm curved jaw, 35cm length	102-138D
		STLS 23C	Single speed, 5mm curved jaw, 23cm length	102-137D
		STLS 14C	Single speed, 5mm curved jaw, 14cm length	102-140D
		TLS² 35C	Two speed, 5mm curved jaw, 35cm length	132-131D
		TLS² 23C	Two speed, 5mm curved jaw, 23cm length	132-132D
		TLS² 14C	Two speed, 5mm curved jaw, 14cm length	132-133D
		TLS³ 35C	Two speed, longer and more tapered 5mm curved jaw, enhanced sealing and dissecting, 35cm length	132-136D
		TLS³ 23C	Two speed, longer and more tapered 5mm curved jaw, enhanced sealing and dissecting, 23cm length	132-135D
		TLS³ 14C	Two speed, longer and more tapered 5mm curved jaw, enhanced sealing and dissecting, 14cm length	132-134D
REPOSABLE THERMAL LIGATING SYSTEM		MiSeal Reusable Handpiece	Reusable 5mm handpiece, 35cm length Reusable 5mm handpiece, 14cm length	152-103R 152-101R
		MiSeal Disposable Tip Kit	Includes 5mm curved jaw tip and instrument cord	452-131D
ADDITIONAL PRODUCTS		PowerPack Dual Control Footswitch	Non-sterile, reusable unit with two power settings, used with disposable forceps	309-004R
		Universal Power Supply	Non-sterile, reusable power unit that converts AC to low voltage DC, compact, 3lbs (1.33kg)	200-006R

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