

MiSeal™

Reusable Thermal Ligating System



The first and only
in reusable innovation.

MICROLINE
SURGICAL

MiSeal™ Repposable Thermal Ligating System

The *cost-efficiency* of reposable.

The *precision* of direct thermal energy.



The MiSeal™ Repposable Thermal Ligating Device is the first and only reposable device that simultaneously seals and divides soft tissue using direct thermal energy. The 5 mm laparoscopic instrument consists of a reusable handpiece and disposable tip. The tip utilizes proprietary Tissue Welding technology to facilitate the precise application of heat, minimizing collateral damage. Because MiSeal™ is reposable, it offers cost-effective, eco-friendly benefits compared to fully disposable devices, as it may reduce the disposal cost of biohazardous waste.

Surgeons trust the simple and reliable Tissue Welding technology for clinical applications such as:

- Cardiac Surgery
- ENT / Head & Neck Surgery
- Gynecological Surgery
- Colorectal Surgery
- Urological Surgery
- General Surgery



TECHNICAL SPECIFICATIONS:

LENGTH	35 cm
DIAMETER	5 mm
ROTATION	360°
JAW ANGLE	Curved
JAW STYLE	Maryland

DUAL ACTION JAW



MiSeal™ proprietary technology is simple and reliable. In order to seal and divide soft tissue, protein bonds must be denatured with heat. By employing a unique temperature and pressure profile to modify proteins, MiSeal™ creates a high-integrity seal and a clean division. The seal is initiated from both sides of the tissue at the same time, so the temperature gradient across the tissue is decreased and the possibility of unwanted thermal collateral damage is significantly reduced. Other devices pass electrical energy through the patient's tissue to create heat, which may cause unintended thermal injury.



Dual-action Maryland style jaw design can be used as a dissector or grasper, minimizing instrument exchange.



A resistive heating element in the jaw of the device is powered by a low voltage current, which heats only the tissue it contacts. No electrical current passes through the patient.



A graded thermal profile with a low-temperature coagulating zone seals the tissue while an extremely narrow high temperature zone divides the tissue simultaneously.



Division of target tissue is precise, minimizing thermal spread. Minimal smoke and water vapor allow for improved visibility.



The Universal Power Supply converts AC power from a hospital-grade wall outlet into low voltage DC power for MiSeal.™ Selectable, constant current ensures precise power for the heating elements. Compact, 3-lb unit can be suspended from an IV pole or placed on any flat surface, making the UPS portable and easy to store. Compatible with voltages worldwide.

ABOUT MICROLINE SURGICAL

Microline Surgical develops and manufactures high precision laparoscopic reusable instruments that provide a cost-effective, eco-friendly solution for today's OR. Starion Instruments, a wholly owned subsidiary, produces a broad spectrum of surgical instruments used to seal and divide tissue utilizing proprietary Tissue Welding technology.

ORDERING INFORMATION:

Handpiece	Reusable 35 cm length	REF 152-103R
Kit	Disposable 5 mm Curved Jaw Tip, Disposable Instrument Cord	REF 452-131D
Universal Power Supply	Reusable Power Unit	REF 200-006R

To place an order, please call 1-800-STARION or 408-522-5200.

Surgeon sign-off to purchase

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