The PRECISION you require with the VERSATILITY you need

DERMATOLOGY

GENERAL SURGERY

OTOLARYNGOLOGY

OPHTHALMOLOGY

DENTISTRY

ENDOSCOPY

LAPAROSCOPY

NEUROSURGERY

ORTHOPEDICS
RADIOWAVE SURGERY
Can Benefit Your Practice

BEYOND THE LASER

HOW DOES RADIOWAVE SURGERY WORK?

A radiofrequency electrode tip becomes energized by the radiowaves but does not become overly hot. The high frequency radiowaves provide specific and delicate tissue interaction. This results in a focused cutting and coagulating effect, which disintegrates and volatilizes single cells minimizing the amount of tissue destruction. Healing is rapid and pain is minimized with reduced tissue damage.

WHY IS RADIOWAVE SURGERY SAFE?

For some models, skin contact is not required between the neutral plate and the patient, minimizing the possibility of burns and shocks.

There is no risk of accidentally burning other areas of tissue through reflection or penetration of a light beam, as with a laser.

Radiowave surgery provides a tactile incision requiring minimal pressure, which allows the doctor to sense what he is cutting.

Radiowave energy is low temperature, minimizing the occurrence of tissue necrosis and burning.
Decreased Post-Operative Pain
Radiowave surgery causes minimal tissue damage

Decreased Post-Surgical Edema
Low temperature = less tissue destruction

Reduced Risk of Infection
Radiowaves vaporize bacteria, preventing infectious agents from being seeded along the length of the incision

Quicker Recovery
With less tissue destruction, healing is hastened and your patients will recover quickly

Safer Than Laser & Electrocautery
There are minimal safety precautions involved with radiowave technology

No Burning or Charring of the Tissue
Radiowave surgery does not burn the tissue, like laser or high temperature electrosurgery

Clinical Citations
Redefine YOUR SURGICAL RESULTS with the Surgitron® Dual RF™ Unit

The patented Surgitron® 4.0 Dual RF™ Frequency RF/120 IEC represents advanced radiowave technology that provides unparalleled surgical control, precision, versatility and safety.

Clinical benefits include reduced post-operative discomfort, minimal scar tissue formation, maximum readability of histologic specimen, enhanced healing and excellent cosmetic results.

SURGITRON® DUAL RF™ FREQUENCY RF/120 SHIPS COMPLETE WITH:

- IEC-PC110 or 220: IEC Power Cord
- DF-FSC: Dual Footswitch & Cable
- IEC3A-SL1: Instruction Manual
- IEC-HP1: IEC Foot-Controlled Handpiece
- IEC-3FHPB: IEC 3-Button Fingerswitch Handpiece
- H79: Handpiece Clip
- H66: Electrode Protector Stand
- VCD/PCSIEC3: Instruction CD Rom
- IEC-JX/B: IEC Bipolar Cable
- IEC-NPC: IEC Neutral Plate
- S10B: Standard Electrode Set
- J1: Bipolar Forceps
High Frequency - Low Temperature
4.0 MHz Radiofrequency

5 Distinct Waveforms for Optimum Clinical Outcomes

BIPOLAR
Pinpoint, micro-coagulation • Minimal charring or tissue necrosis
Ideal for coagulation in and around critical anatomy

FULLY FILTERED (Cut)
Micro-smooth cutting • Negligible lateral heat
Minimal cellular destruction • Fastest healing
Best cosmetic results • Ideal for skin incision and biopsy

FULLY RECTIFIED (Cut/Coag)
Cutting with hemostasis • Ideal for subcutaneous tissue
dissection and planing • Especially useful in vascular
areas while producing minimal amounts of lateral heat
and tissue damage

PARTIALLY RECTIFIED (Hemo)
Coagulation/Shrinkage • Ideal for hemostasis with
controlled penetration • For cutting with maximum
hemostatic control

FULGURATION
Maximum penetration and hemostasis
Ideal for intentional tissue destruction

TRANSMISSION ELECTRON MICROSCOPY SHOWING LATERAL THERMAL DAMAGE ON HUMAN OVIDUCTS BY DIFFERENT INSTRUMENTS

The ellman® Surgitron® FFPF EMC features a continuously linear power setting for precise, predictable control. This promotes faster healing with minimal scarring and serves to reduce unfavorable post-operative conditions such as trauma, pain, swelling and infection.

Your ellman® Surgitron- EMC high frequency Radiosurgical unit is equipped with an audio tone that indicates when the unit is activated. This tone will be heard immediately upon activation of the Surgitron® unit, either by Footpedal or by Fingerswitch.

SURGITRON® FFPF EMC GENERATOR SHIPS COMPLETE WITH:

- **HP1** Autoclavable Handpiece and Cord
- **S10B** Standard Electrode Set
- **H4** Antenna Plate
- **EMCLZ** Operation Manual
  - Foot Pedal (not sold separately)
- **PC110** EMC Power Cord
- **H66** Electrode Protector Stand
- **H79** Side Clip
- **DVD/VT14** Clinical Video
- **DVD/EMC1** Instructional Video
Distinct ADVANTAGES

- Reduced surgical time
- Improved visibility of operative field
- One device from incision to closure
- Hemorrhage control
- Pinpoint coagulation in a wet field
- General Surgery and Dental applications
- Minimal tissue alteration
- Minimal burning or charring of the tissue

The Surgitron® EMC-Vet Surg has revolutionized veterinary surgery at an affordable price, making it possible for all veterinary hospitals to take advantage of this technology.
ABOUT ELLMAN ELECTRODES

Our RF electrodes are designed for our patented Radiosurgery® units for minimal tissue alteration. The insulated shaft of each electrode can be bent or contoured for all surgical procedures.

RECOMMENDED VETERINARY ELECTRODE SET

<table>
<thead>
<tr>
<th>Excision</th>
<th>Coagulation/Desiccation</th>
<th>Coagulation/Fulguration</th>
<th>Incision</th>
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</thead>
<tbody>
<tr>
<td>C7B</td>
<td>A3B</td>
<td>F1B</td>
<td>A8B</td>
</tr>
<tr>
<td>B1B</td>
<td>D3B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INFORMATION FOR ORDERING ELECTRODES

CODE TO ELECTRODE PREFIXES/SUFFIXES

B - Bendable  
T - 2-Pack  
X - Value 5-Pack

Most electrodes are available in 1/16” or 3/32” shaft sizes. Use “Q” as a prefix when ordering 3/32” shaft size. Longer electrode shaft sizes are available. Contact our technical sales representatives for more details at (800) 835-5355 or (516) 594-3333.
Specified Tip Selection

**Needle Electrodes (A Series)**
- Primarily used for incisions and excisions in precise surgical procedures
- Choice of fine/regular wire is dependent on degree of coagulation desired

**Broad Needle Electrodes**
- Primarily used for Fulguration and Desiccation procedures

**Round Loop Electrodes (B Series)**
- Primarily used for shaving lesions and contouring tissue
- Excellent biopsy specimens obtained
- Suture-free technique

**Diamond Loop Electrodes (C Series)**
- Provides one stroke elliptical incision

**Triangle Loop Electrodes (C Series)**
- Primarily used for shaving lesions and contouring tissue

**Ball Electrodes (D Series)**
- Primarily used for coagulation
- Heat seals blood vessels rather than burning
- Minimal adjacent tissue destruction

**Oval Loop Electrodes (P Series)**
- Primarily used for shaving lesions and contouring tissue

**Vari-Tip™ Microdissection Needle**
*Vari-Tip™* wire can be simply adjusted for deeper or more shallow incisions by pushing against your thumb nail.

*Vari-Tip™* wire may be extended and cut for continued use. When the wire has been completely trimmed down, simply insert the extra wire provided.
Introducing

Patented

ACe-Tip™

The ellman® ACe-Tip™ Technology Advantages:*  

ADVANTAGES  
- Minimal adherence of tissue  
- Low absorption  
- Tissue preservation

“The ACe-Tip™ electrodes are designed to reduce resistance/impedance which causes less undesired lateral heat compared to tungsten steel electrodes. A 45% reduction in the zone of hyalinization has been demonstrated.”

ACe-Tip™ electrodes glide smoothly through tissues and are excellent for sculpting and tissue shaping.

ACe-Tip™ Advanced Composition Alloy (Reusable)

“The ACe-Tip™ electrodes offer superior hemostasis to traditional excision with scalpel/scissors while producing less thermal damage, which is critical to obtaining accurate histopathology.”

— JOHN G. ROSE, M.D.  
Oculoplastic, Orbital and Facial Cosmetic Surgery, Dean Health Systems, Madison, Wisconsin

“The incision produced minimal tissue damage. My pathologist did not complain as far as tissue alteration in the line of incision. Furthermore, the absence of channeling effect is a very important advantage when doing Orbital surgery, since the optic nerve is part of the brain.”

— REYNALDO JAVATE, MD  
Chairman of Oculoplastic Department, University of Santo Tomas Hospital, Manila, Philippines

*Data on file. FDA Submission Packet 510 (k) K071343  
†Porcine skin.
3/8" Needle ACe-Tip™, Regular Wire
1/16" shaft (2pcs)

1/4" Round Loop ACe-Tip™, Fine Wire
1/16" shaft (2pcs)

1/4" Round Loop ACe-Tip™, Regular Wire
1/16" shaft (2pcs)

3/8" Round Loop ACe-Tip™, Fine Wire
1/16" shaft (2pcs)

3/8" Round Loop ACe-Tip™, Regular Wire
1/16" shaft (2pcs)

Vari-Tip™ ACe-Tip™
1/16" shaft (2pcs)

2mm Coagulating Ball ACe-Tip™
1/16" shaft (2pcs)

5mm Coagulating Ball ACe-Tip™
1/16" shaft (2pcs)

HLTZ Tonsillotomy ACe-Tip™
1/16" shaft (2pcs)

2mm Coagulating Ball ACe-Tip™
1/16" shaft (2pcs)

3/8" Round Loop ACe-Tip™, Regular Wire
1/16" shaft (2pcs)
Select Your

RF ELECTRODE

(Electrodes are available in 2-Packs & Value 5-Packs)

Fine Wire, Regular Wire

Electrodes are displayed in actual size
Fine Wire, Regular Wire

Electrodes are displayed in actual size
Sets of RF ELECTRODES

Assorted electrodes in Sets of 5

Assorted Needle Electrode Set
XA, (5 pcs)

Assorted Round Loop Electrode Set
XB, fine wire
XBRB, regular wire, (5 pcs)

Assorted Diamond Loop Electrode Set
XC, fine wire
XCRB, regular wire, (5 pcs)

Assorted Ball Electrode Set
XD, (5 pcs)

Assorted Oval Loop Electrode Set
XPFB, fine wire
XPRB, regular wire, (5 pcs)

Assorted Triangle Loop Electrode Set
XT, fine wire
XTRB, regular wire, (5 pcs)
The Empire® microIncision™ Electrodes are designed with an ultra-fine polished, tapered tip, ensuring maximum precision and sharpness with minimal tissue adherence. The single-use electrode produces a high concentration of energy with the least amount of thermal damage to adjacent tissue, (tip for cut, side for coag). The microIncision™ Electrodes are available in an assortment of various shapes and lengths, with a shaft diameter of 1/16” or 3/32.”

The Electrode Block provides organization and easy access to electrode tips. This durable, clear, lucite block holds 18 electrodes in an upright position. Identification and selection of electrodes is now simple.

- H1 holds 18, 1/16” Electrodes
- H1A holds 18, (9) 1/16” Electrodes & (9) 3/32” Electrodes
- QH1A holds 18, 3/32” Electrodes

The Electrode Protector Stand™ is convenient and will protect your electrodes from damage and breakage during the sterilization process. It will stand on any flat surface for easy identification and access to each electrode. The stand holds 6 (1/16”) electrodes and 6 (3/32”) electrodes.

- H66 Electrode Protector Stand™ for Standard Electrodes
Scalpel Electrodes are used primarily for incisions and excision of tissue in vascular areas. Scalpel shape provides broader coagulation than a needle electrode.

MicroTip Needles™ have a pinpoint design that produces micro-smooth cutting and coagulation while creating the least amount of tissue alteration with your Radiosurgery® generator. They are excellent for all initial skin incisions and tissue excisions. The ellman Empire® MicroTip Needle™ is designed with a surgical tungsten wire which is tapered to a fine point and teflon coated for safety.

Fine Insulated Coated Needle Electrodes are specially designed for epilation procedures to treat trichiasis and distichiasis. The thin needle is teflon coated and provides insulation up to the last 0.5mm. The insulation allows penetration into the skin without damage to the adjacent tissue to minimize patient discomfort. When activated, the 1mm at the tip destroys the follicle.
ellman®
RF CABLES

Reusable (1pc)
For use with Suction Coagulator, Mono Stan RF Forceps, Micro Fibre® Electrode

Reusable (1pc)
Monopolar Cable for endoscopic instruments.

Reusable (1pc)
For use with Polyp Snare and Laparoscopy.

Reusable (1pc)
Bipolar Cable used with Lap/Endo instruments.

Reusable (1pc)
Bipolar Cable used with Lap/Endo instruments.

Reusable
Adaptors are available and used when needed with specific accessories.

Separate plugs are used in accordance with the corresponding unit (the Surgitron® Dual RF and the Surgitron® EMC).

Quick-Connect™ Cable
SP020 (EMC)
IEC-SP020 (Dual)

IEC Lap-Endo Monopolar Cable
IEC-UC (Dual only)

Snare Cord
H7B (EMC)
IEC-H7B (Dual)

Universal Bipolar Cable
IEC-BIUC (Dual)

Universal Bipolar Cable
EMC-BIUC (EMC)

Accessory Adaptors
Bipolar RF PRODUCTS

BIPOLAR MODALITY

The bipolar mode of coagulation provides an efficient means of maintaining hemostasis. This is especially important in small species such as birds and pocket pets. In all animals, the bipolar coagulation techniques will allow higher efficiency. This results in shorter surgeries with less anesthetic risk and cost. Rather than spending time waiting for pressure techniques to provide hemostasis or finding and clamping small vessels, the surgeon can coagulate the vessels or open capillary beds. The increase in overall safety and productivity can be significant.

With the Silicone Bipolar Cable™, your Surgitron® EMC-Vet Surg becomes a Bipolar Coagulator, providing precise, pin-point coagulation that is essential in microsurgery and avian surgery. With the Bipolar Forceps (see above), the Bipolar Cable allows you to coagulate in a wet field and in open capillary beds.
ACe-Tip™
NON–STICK FORCEPS

FEATURING ADVANCED COMPOSITION ALLOY “NON-STICK”, LOW TEMPERATURE

ACe-Tip™
Technology Advantages:

• MINIMAL ADHERENCE OF TISSUE
• LOW ABSORPTION
• TISSUE PRESERVATION

Data on file.

FDA Submission Packet
510 (k) K071343
**Ergonomic**

**RF HANDPIECES**

**THE ELLMAN HANDPIECE**

The ellation® handpiece is designed to fit comfortably in your hand therefore maximizing productivity by reducing operator fatigue and discomfort.

Separate plugs are used in accordance with the corresponding unit (the Surgitron® Dual RF and the Surgitron® EMC).

**Foot Activated Blade Handpiece**

H15 (EMC)

IEC-H15 (Dual)

**H15** accepts #10, #11, #15 blades and 1/16” electrode, Reusable (1 pc)

QH15 accepts #10, #11, #15 blades and 3/32” electrodes Reusable (1 pc)

The Radiosurgical Blade Handpiece™ is a reasonably priced, innovative device allowing you to use a micro-sharp sterile blade, needle adaptor or autoclavable electrodes (specify 1/16” or 3/32”) with your Vet-Surg instrument. The large surface area of the blade provides rapid hemostasis during surgical procedures with the feel of a traditional scalpel blade.

**ADVANTAGES**

- Allows you to use the sterile disposable blade of your choice
- Autoclavable to 250°F
- Prevents cross-contamination

**INDICATIONS**

- Tail Docking
- Ear Cropping
- Mastectomies
- Large Tumor Dissection
- Abdominal Surgery
The **Standard Foot Controlled Handpiece™** is ergonomically tapered for better control and excellent tactility.

**ADVANTAGES**

- Unique fountain pen design
- Cord and handpiece are autoclavable *(Steam or Gas)*
- Handpiece will accept both 1/16” and 3/32” shaft size electrode

Separate plugs are used in accordance with the corresponding unit (the Surgitron® Dual RF™ and the Surgitron® EMC).

**Foot Controlled Handpiece with Locking Chuck**

XHPI (EMC)  
IEC-XHP1 (Dual)

**3-Button Handpiece with Locking Chuck**

IEC-XFHP3 (Dual only)

**3-Button Blade Handpiece with Locking Chuck**

IEC-XBHP3 (Dual only)

**1-Button Handpiece with Locking Chuck**

XK06C (EMC only)
Patented
Suction Coagulator Kit™
H40 (EMC) IEC-H40 (Dual)

The Suction Coagulator Kit™ contains:
- Handpiece and Cable
- Stylus
- (3) 6” tubes
- (3) 3” tubes
- (3) O rings
- (3) Adaptors

ADVANTAGES
- Coagulation with simultaneous suction
- Selectivity of orifice diameters for coagulation probes
- Can be used as a handpiece
- Autoclavable

INDICATIONS
- Coagulate bleeding vessels within a surgical field
- Draw out blood and other liquids from a surgical field
- Laryngeal procedures

Polyp Snare™
IEC-H301 (Dual) H301 (EMC)

INDICATIONS
- Tonsillectomy
- Polypectomy

H7A Snare Wires (6 pcs)
H7B Snare Cord, EMC (See page 19)
IEC-H7B Snare Cord, Dual (See page 19)
Radiosurgical Unit

ACCESSORIES

With Steri-Caps™ you can take control in total sterility with autoclavable protective dial covers, (3 for large dial and 3 for small dial).

• Space saver
• Swivel arm (12") and swivel plate
• Attaches easily to any vertical surface
• Will support up to 40 lbs.
• Ideal for many instruments

• Does not require skin contact (EMC) (eliminates contact jelly and adhesives and saves time)
• Promotes safety (reduces possibility of burns or shocks)
• Inexpensive • Permits minimum power output
• Consistent performance from patient to patient

The ellman® Single-Use Neutral Plate is a sensing, pre-gelled, self-adhering, dispersive pad. The effective electrodes are two aluminum oil conductors, covered by a hydrogel conductive adhesive.

The Bipolar Converter™ provides the veterinary surgeon the convenience of switching the ellman® Surgitron® EMC-Vet Surg from the monopolar Handpiece/Antenna mode to the Bipolar Forceps mode with the simple flick of a switch. This eliminates the need of plugging and unplugging the cords during surgery.

ADVANTAGES
• Convenience • Eliminates switching cords during surgery
• Autoclavable switch-cover

ADVANTAGES
• Eliminates “disappearing” foot pedal
• Plugs into the side of your Surgitron® EMC Vet-Surg
• Standard foot-control is still operational

Steri-Caps™
EMCH3S

Wall Bracket™
HH

Surgitron® Neutral Plate™
H4 (EMC)

IEC Disposable Neutral Plate
Standard Size
IEC-NPD (Dual RF™)

Patented Bipolar Converter Box
EMCH95A

Patented Fingerswitch Adaptor™
EMC-KA
The Dual Footswitch eliminates the need to touch the front panel to switch from CUT mode to COAG mode.
(For Surgitron® 4.0 RF/120 IEC only)

600mm Length, Monopolar Electrode, malleable. (1 mm O.D.) for endoscopic procedures.
Sterile, Disposable. (3 pcs.) (attaches to Quick-Connect™ Cable)

10” Length, 3mm diameter

6.9” Length, Includes Irrigation Suction Portal, Quick-Connect™ Cable, Video CD.

4.5” Length, Includes Irrigation Suction Portal, Quick-Connect™ Cable and Video CD.

4.5” Length, Monopolar Forceps with Cutting/Coagulation. Includes Quick-Connect™ Cable and Video CD.
Smoke Evacuation Products

Protect yourself and your staff from surgical plume and respiratory particulate.

ADVANTAGES
• Quiet (Functions between 52 and 65dBA)
• Solid State variable suction speed control with 9 settings
• Filters micro-organisms bigger than 0.12 microns at 99.999% efficiency.
• Foot pedal and finger control activation • Pneumatic footswitch
• Fits vertically or horizontally in your office space
• Detachable, hospital-grade power supply cord

FEATURES
• Removes respirable particulate from operative site.
• Removes smoke plume from operatory area for better visibility
• Eliminates unpleasant smoke plume odors

SURG-E-EFFICIENT
ellman® International has developed this device to provide a strong smoke evacuation system, with an inlet velocity of 150 feet per minute at the wand tip. The unique compact multi-filtration technology has been designed to trap macro and micro airborne particles and offer a “breathe-free” environment for you, your staff and your patients.

“The use of the ellman Vapor Vac effectively reduces occupational exposure of operating room personnel to high concentrations of halothane during avian surgery.”
— ROBERT B. ALTMAN, DVM

SURG-E-TRACK
A built-in electronic chip monitors the filter’s life information, ensuring maximum safety.

QUADTRATION TECHNOLOGY
Thanks to the four filters in one casing (pre-filter, ULPA, Carbon, post-filter) the Surg-e-Vac™ provides the best results of all smoke evacuation systems.

AS SIMPLE AS “PULL & CHANGE”
Filter replacement does not require tools or instructions. Due to the efficient “Pull & Change” system, filter replacement is a matter of seconds!

SV110 Surg-e-Vac™ (110v)
SVFSC Surg-e-Vac™ Pneumatic Footswitch
VV148 7/9” Surg-e-Vac™ Hose (1 pc)
SVF1 Quad Filters (pkg of 3)
VV140 Saf-T-Wand (10 pcs)
SVL1 Surg-e-Vac™ Manual

Patented Surg-e-Vac™
SV110 (110v countries)
SV220 (220v countries)
The SurgiCart™ is dynamically balanced for superior stability and easy movement on floor or carpet. Its lightweight steel construction provides excellent durability. The open design allows for improved mobility through narrow halls and crowded surgical suites. Both the handle and unit platform are strategically placed for easy access to the Surgitron® controls. The SurgiCart™ ships complete with instrument tray and goose neck with hose clamp.

**FEATURES**
- Articulated arm eliminates the need for an assistant
- Chip-resistant powder coated paint
- Light weight (25 lbs.) and simple assembly (no tools required) allows for cost-effective shipping
- Accommodates the entire Surgitron® family of radiosurgical units
- Designed to support the Surg-e-Vac™ systems

**Vac Assist Stand**

**Surg-e-Vac™ Accessories**

The SurgiCart™ ships complete with instrument tray and goose neck with hose clamp.

**FEATURES**
- Adjusts to various heights
- Articulated arm eliminates the need for an assistant
- Easy to assemble
- Light weight/stable
**Accessories**

**Medi-Frig™** is a safe and non-flammable cryosurgical agent used to obtain quick and temporary anesthesia of the skin by freezing. Medi-Frig™ is excellent for minor surgery and surgical planing.

**ADVANTAGES**
- Indefinite shelf life
- Temperature (-54°C)
- Environmentally safe
- Direct pinpoint applicator

**INDICATIONS**
- Topical anesthetic to remove small skin lesions
- Cryotherapy in selected cases of cloaca papillomas, chronic mouth lesions and other granulomas

**Corneal Shields** tauten the skin to allow for more precise incisions. They are an excellent aid when performing periorbital surgery and aid in the protection of the eye from cautery, desiccation, irritation, trauma, during and after surgery of eyelids, and orbital regions.

**ADVANTAGES**
- Prevents damage to the eye
- Colored shields prevent light from entering the eye
- The Corneal Shield™ tautens the skin to allow for more precise incisions

**H75A**  **Small** - 4 Shields and one Suction Handle  
**H76A**  **Medium** - 4 Shields and one Suction Handle  
**H77A**  **Large** - 4 Shields and one Suction Handle  
**H781**  **Introductory package** - one pair each: Small, Medium, Large and one Suction Handle
The **Veterinary Radiowave Surgery Brochure** offers your client the necessary information regarding radiowave surgery. Clients will readily learn the numerous applications and benefits of radiowave frequency, ensuring the comfort and welfare of their pet.

**Squeez-ëtts™** function like an eyedropper and provide safe, controlled pinpoint applications for liquids.

**Super Squeez-ëtts™** function like Squeez-ëtts™ but are larger and hold a greater volume of liquid. *(50 pcs.)*

**ADVANTAGES**
- Holds Squeez-ëtts™ and Super Squeez-ëtts™
- Four different size wells for liquids
- Autoclavable
- Will not tip
- Ability to perform procedure easily without an assistant
- Inexpensive
- Ability to separate multiple liquids for a procedure
Roto-Pro™ Rotosonic Scalers are manufactured in four shapes, all having six sides and non-cutting edges. They will not injure soft or hard tissue. When used in a high speed air driven handpiece, they will produce rotary ultrasonics of about 20,000 vibrations per second.

**INDICATIONS**
- Subgingival and supragingival calculus removal
- Remove "flash" from composite and glass ionomer restorations
- Contour bone around gingivectomy and gingival flap sites
- Remove granulation tissue from surgical sites
- Remove overhanging amalgams
- Smooth and refine finishing line for crown preparation
- Remove excess cements
- Remove direct bonded plastic brackets
- Polish composites

**ADVANTAGES**
- Sterilizable
- Performs rapid scaling
- Good visibility due to air jet lifting tissues
- Smooths root surfaces for gingival reattachment
- Produces smoother tooth surface than traditional ultrasonic instruments

**ERP101** Roto-Pro™ - Regular Tip (6)
**ERP102** Roto-Pro™ - Perio Tip (6)
**ERP103** Roto-Pro™ - Flame Tip (6)
**ERP104** Roto-Pro™ - Round Tip (6)
**ERP105** Roto-Pro™ - Complete set (one of each shape)

The Micro-Etch™ Syringe has a micro screw-fed dispensing system which allows precise placement of 40% phosphoric acid gel upon the tooth enamel. It is used for etching enamel for bonding procedures.

**ADVANTAGES**
- Gel prevents acid flow into soft tissue and adjacent teeth
- Increases bonding success
- No mixing, no clean-up, no mess, no waste
- Metal tip can be autoclaved

**EME134C** Micro-Etch™ 2 ml available in Screw-Fed syringe (clear)
**EME134P** Micro-Etch™ 2 ml available in Screw-Fed syringe (pink)
**EME134A** Plastic Tips (pkg. of 4)
**EME134B** Metal Tips (pkg. of 4)
Hypo-Cal®

**INDICATIONS**
- Cavity liner
- Indirect pulp capping
- Pulpotomy

**EHC136** Hypo-Cal™ 2.5 ml Screw-Fed syringe
**EHC136B** Hypo-Cal™ Metal Tips (pkg. of 4)

**ADVANTAGES**
- Pre-mixed for no mess, no clean-up, no waste
- Radiopaque
- Bacteriostatic and bacteriocidal
- Pinpoint application with needle tip
- Needle tip applicator can be bent for easy access
- Offers chemical protection of pulp against acids
- Offers physical protection by sealing dentinal tubes against invading organisms and thermal stimulants
- Offers biological protection by stimulating the formation of secondary dentin
- Compatible with bonding materials
- Thin film that will not interfere with the seating of crowns
- Metal tip can be autoclaved

**INDICATIONS**
- Cavity liner
- Indirect pulp capping
- Pulpotomy

Root-Cal™

**INDICATIONS**
- Hard tissue repair including: perforation and root fractures
- Antibacterial dressing in non-vital teeth
- Prevention of internal root resorption
- Prevention of inflammatory apical resorption following trauma
- Endodontic treatment of re-implanted avulsed teeth

**ERC137A** Metal Tips (pkg. of 4)
EP0165  NuBond™ Post Kit
EP0167  NuBond™ Posts (6) stainless steel, available in sizes 1-6
         (specify sizes)
EP0168  NuBond™ Post Bulk Package
         (100) available in sizes 1-6
         (specify sizes)
EP0166  Reamers (tapered, self-limiting)
         available in sizes 1-6
         (specify sizes)

INDICATIONS

• Supports full crowns on endodontically broken down teeth
• Supports composite resin restorations
• To support amalgam or composite cores
• Stabilizes existing cast restoration after endodontic treatment

ADVANTAGES

• Cement-in system reduces root stress
• Self-limiting reamer prevent perforations
• Tapered posts and reamers prevent root fractures
• Precision knurls for superior retention
• Longer posts can be used due to decreased diameter in apical section
• Non-cutting "safe-end" tip on reamer
• Posts can be pre-bent coronally without losing strength

2ml Syringe Applicator, Citric acid gel in a 30% solution with a pH of 1.

ADVANTAGES

• Gel prevents acid flow into soft tissue or adjacent teeth
• Orange colored for easy identification
• Will not cause damage to the pulp
• No mixing, no clean-up, no mess, no waste
• Increases bonding success
• Allows for precise placement of citric acid
• Metal tips can be autoclaved

ECE135  Citric-Etch™ 2 ml available in screw-fed syringe
ECE135A  Plastic Tips (Pkg. of 4)
ECE135B  Metal Tips (Pkg. of 4)

INDICATIONS

• Etching for dentin and cementum
• Demineralization of root surfaces to enhance gingival reattachment after flap surgery
• Detoxifying and cleaning implants during re-entry of tissue to repair defect
• Removing ZOE before placing composite
• Cavity cleanser to produce sharp, well defined surface

ADVANTAGES

• Protects your burs during sterilization
• Can be removed from its sterile bag and will stand on any flat surface for easy identification and access to each bur
• Will hold Roto-Pro™ as well as high-speed and low speed burs
• Holds 12 burs

Bur and Roto-Pro™
Sterilization Stand
EBS101

NuBond™
Posts

2ml Syringe Applicator, Citric acid gel in a 30% solution with a pH of 1.

ADVANTAGES

• Gel prevents acid flow into soft tissue or adjacent teeth
• Orange colored for easy identification
• Will not cause damage to the pulp
• No mixing, no clean-up, no mess, no waste
• Increases bonding success
• Allows for precise placement of citric acid
• Metal tips can be autoclaved

ECE135  Citric-Etch™ 2 ml available in screw-fed syringe
ECE135A  Plastic Tips (Pkg. of 4)
ECE135B  Metal Tips (Pkg. of 4)

INDICATIONS

• Etching for dentin and cementum
• Demineralization of root surfaces to enhance gingival reattachment after flap surgery
• Detoxifying and cleaning implants during re-entry of tissue to repair defect
• Removing ZOE before placing composite
• Cavity cleanser to produce sharp, well defined surface

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EBS101

NuBond™
Posts
Veterinary soft tissue procedures can be performed with less bleeding and less lateral necrosis than laser and conventional electrosurgery.

**ADVANTAGES**

- Better and faster healing than cold steel and laser
- Cost effective
- Cutting/Cutting & Hemo/Bipolar available at surgical site
- Less post-operative pain
- Less swelling and edema
- Low maintenance cost
- Minimal tissue trauma
- Portability of RF device
- Proven in 8 medical specialties
- Safety for the surgeon, staff, and patient
- Short learning curve
- Significantly lowers the risk of hematoma and infection
- Smoothly and gently cuts and coagulates through all layers of tissue at low temperatures
- Speeds surgical procedures
- Versatility of usage

**PROCEDURES**

- Ablation
- Anal Fistulae
- Aural Hematoma
- Basal Cell Carcinoma
- Biopsy
- Castration
- Cervicitis
- Cloacal Hyperplasia Removal
- Cyst Removal
- Declaw
- Ear Canal Polyp
- Ear Crop
- Ectropion/Entropion
- Endoscopy/Laparoscopy
- Epilation for Distichiasis & Trichiasis
- Epulis Removal
- Eyelid Tumors
- Gingival Hyperplasia Removal
- Granulation Tissue
- Hemostasis
- Intra-Abdominal Surgery
- Lick Granulomas
- Mammary Tumors
- Mastectomy
- Nasal Fold Surgery
- Nasal Polyps
- Ophthalmic
- Papilloma
- Perineal Surgery
- Pharyngeal Abscess
- Precise, Pinpoint Coagulation for Microsurgery
- Rectal Surgery
- Removal/Non Cutaneous
- Resection/Uvulectomy
- Sebaceous Adenoma
- Skin Incisions
- Skin Tumors and Cysts
- Soft Palate Resection
- Spay/Neuter
- Tissue Sculpting
- Tonsillectomy
- Wet Field Coagulation
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