Hu-Friedy proudly supports endodontic research and education through the American Association of Endodontists Foundation.

ENDO ESSENTIALS
ENDODONTIC PRODUCT CATALOG

How the best perform
HU-FRIEDY'S ENDODONTIC INSTRUMENTATION

Hu-Friedy's comprehensive line of endodontic instruments and accessories give you versatile options to meet all of your clinical needs. Many of our instruments, especially those made for microsurgical applications, were developed in conjunction with leading global Key Opinion Leaders who are on the cutting-edge of clinical research, design and application. If you are looking for exceptional instrument design, quality and reliability, and unmatched customer service, choose Hu-Friedy’s Endodontic Instruments.

The Challenge
The sensitive nature of endodontic procedures necessitates instruments with exceptional response, integrity and durability to accommodate a wide variety of endodontic procedures — from routine root canals to complex microsurgery.

The Solution
Hu-Friedy instruments are individually handcrafted to precise specifications from quality materials to ensure superior performance, longevity and reliability. Instrument design combined with proprietary materials and incomparable workmanship result in instruments with unique balance, working leverage and control. They function as a seamless extension of the practitioner's skill.

The Result
High-quality Hu-Friedy instrumentation provides unsurpassed clinical efficiency, so practitioners can deliver superior outcomes and focus on the patient. The result is outstanding patient care.

SOLUTIONS OVERVIEW

Since 1908 Hu-Friedy has been putting the highest quality, innovative dental products in the hands of dental professionals worldwide. And today as one of the world’s leading dental instrument companies, we continue our commitment to advancing dental performance by supporting these products with world class service, support, education and peer communities. We’re committed to making sure the best perform that way.

Hu-Friedy. How the best perform.

A Worldwide Focus on Quality
Hu-Friedy is based in Chicago and has been privately owned by the Saslow family since 1959. Today we employ over 600 talented and committed employees in more than 25 countries — including our production facilities in Chicago and Shanghai, China; our distribution centers in Niles, Illinois, and Tuttlingen, Germany; and our additional offices in Japan, Germany, Italy and the Netherlands. Worldwide, our products are sold in more than 95 countries.

Our mandate for excellence is company-wide. Only at Hu-Friedy will you find more than 300 artisans meticulously handcrafting instruments in a modern manufacturing facility. Only here are employees personally responsible for the quality of their work and each other’s. We believe that our success is the result of both our company’s commitment to excellence and the dedication and pride of our highly skilled instrument craftsmen, management and staff.

A Legacy of Innovation
Since the Hu-Friedy Manufacturing Company was founded in 1908 by Hugo Friedman, we have proudly collaborated with private practitioners, dental schools and leading educators to develop new technologies, innovative designs and quality products that are synonymous with value and performance. Because of our reputation for industry leadership, dental experts have been turning to Hu-Friedy with their cutting-edge ideas for over a hundred years.

From our inception, we have been committed to education and developing relationships with students. At the core is our commitment to helping our customers perform at their best and to improve lives through better dentistry. From student to practitioner, Hu-Friedy is proud to be an important part of our customers’ professional lives.

How the best perform

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ENDODONTIC MICROSURGERY

Hu-Friedy has an extensive line of apical hand instruments. This includes curettes, explorers, condensers, burnishers and mirrors. Many were developed in conjunction with Hu-Friedy Key Opinion Leader, Professor Marwan Abou-Rass and other leading global innovators.

MICROSURGICAL MIRRORS

Hu-Friedy has a large assortment of microsurgical mirrors to choose from. They are made from highly polished stainless steel, come in round or rectangular shapes, are single or double-ended, and are offered in a variety of sizes. Select from single instruments or choose the mirror you want and team it up with a handle of your choice. The rhodium-coated front surface mirrors offer sharp, scratch- and distortion-free visibility.

FRONT SURFACE RHODIUM-COATED

VELVART

*Handle sold separately. MBW wrench required for assembly.

HANDLE OF THE MM1, MM2 AND MM3 ARE MARKED WITH ONE, TWO OR THREE BANDS FOR EASY IDENTIFICATION.
MICROSURGICAL EXPLORERS

A popular, basic apical explorer used to initiate the tracking groove in the root tip, and for general exploration and probing.

A versatile explorer with two different, useful and sharp working ends.

A probe with one blunt flat and one round end; excellent for taking measurements, especially the direct root length of the apex.

A 45° angled, sharp-pointed explorer useful for detecting apical foramen and apical seal quality.

A single-ended bone file styled explorer used to enlarge the opening made by MAR-EX1 into the cortical bone to allow drainage.

A 90° angled, sharp-pointed explorer useful for detecting apical foramen and apical seal quality.

Hu-Friedy’s large selection of microsurgical explorers are available in various designs and working ends, giving the clinician useful options for exploration and treatment. From the basic and popular MEX1, to Professor Abou-Rass’ excellent assortment of explorers, they all provide the balance, fine design and construction that practitioners need for careful yet thorough apical exploration.

MICROSURGICAL ABOU-RASS CURETTES/EXCAVATORS

Curettes in straight and angled forms, and useful sizes. Straight curettes provide controlled straight line access and good visibility, use angled forms to access difficult or confined areas.

Hu-Friedy’s large selection of microsurgical explorers are available in various designs and working ends, giving the clinician useful options for exploration and treatment. From the basic and popular MEX1, to Professor Abou-Rass’ excellent assortment of explorers, they all provide the balance, fine design and construction that practitioners need for careful yet thorough apical exploration.

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Curettes in straight and angled forms, and useful sizes. Straight curettes provide controlled straight line access and good visibility, use angled forms to access difficult or confined areas.
MICROSURGICAL FILLING INSTRUMENTS & PLUGGERS

RETROFILLING
Hu-Friedy has several double-ended apical filling instruments to choose from, including the recently launched filling instrument developed in conjunction with Dr. Bertrand Khayat, a Hu-Friedy Key Opinion Leader.

PLUGGERS
These pluggers give the clinician very different working ends for enhanced maneuvering and versatility.

STRAIGHT

ANGLED

*The terms “Condensers” and “Pluggers” are interchangeable.

 Designed in conjunction with Professor Abou-Rass, these double-ended instruments are perfect for retrofill applications. They are double-ended with one round and one oval tip. Round working tips produce “pot hole” preparations while oval tips make “isthmus” designs.
This family of burnishers is available in straight and angled forms. Straight designs provide direct, straight access with ease and visibility. The angled forms have long shanks for optimal reach and visibility of the working end.

These versatile double-ended instruments combine a condenser on one end and a ball burnisher on the other end. The plugger ends feature universal, right and left designs and come in small, medium and large sizes.
Many of Hu-Friedy’s surgical instruments are used for endodontic applications, especially when apical treatment is required. This includes needle holders, scissors, surgical curettes, periodontals and retractors. Here is a sample of some of our most popular surgical instruments used for endodontic treatments.

**PERMA SHARP NEEDLE HOLDERS**

- **Perma Sharp Crile-Wood Straight Diamond Dusted 7" (18 cm)**
  - [NHDPV]
  - European handle design
  - Microsurgical needle holders have a lock to ensure that the needle is firmly secured. This allows the needle to be guided through coarse gingival tissue with controlled grip pressure.
  - Recommended suture sizes: 6-0, 7-0, 8-0.
- **Perma Sharp Crile-Wood 6" (15 cm)**
  - [NH5038]
  - Featuring a ratchet-design and carbide inserts, this needle holder securely grasps the needle and provides enhanced comfort and control when suturing.
  - Recommended suture sizes: 3-0, 4-0, 5-0, 6-0.

**MICROSURGICAL RETRACTORS**

- **ALLAM Retractor**
  - Palatal: [SRTA01]
  - Mandibular: [SRTA02, SRTA03, SRTA04]
  - Universal: [SRTA05]
- **ARENS Retractor**
  - Maxillary Right: [SRTA06]
  - Maxillary Left: [SRTA07]
  - Handle: [TRMGRIFF]
- **Anterior Arens Tissue Retractor**
  - [TRARENS1]
- **Posterior Arens Tissue Retractor**
  - [TRARENS2]

**CURETTES**

This double-ended curette is excellent for use in apical curettage. Available in round or oval designs, Hu-Friedy surgical curettes feature sharp working ends for efficient debridement or curettage.

**NEEDLE HOLDERS**

- **Perma Sharp Needle Holder: Castroviejo Curved, Round Handle 5" (14 cm)**
  - [NH502IRC]
  - Combines a curved beak with the manoeuvrability and comfort provided by its round handle.
  - Recommended suture sizes: 5-0, 6-0, 7-0.

**NEW!**

- **Lucas Spoon Shape No. B5**
  - [CL856]
  - Handle: 86
  - [CL85]
  - Handle: 852 (not pictured).

*Handle sold separately.*
**SURGICAL**

**PERIOSTEALS**
Our periosteals are perfect for retracting and reflecting the mucoperiosteum during apical surgery.

- 9 Molt
  - Handle options: #522, #532
  - A spade-paddle shaped periosteal for the reflection of tissue. The spear-end is used to initiate reflection of the papilla, and the paddle-end is used to continue apical retraction.

- Buser
  - Handle options: #522
  - A spade-paddle shaped periosteal for the reflection of tissue. The spear-end is used to initiate reflection of the papilla, and the paddle-end is used to continue apical retraction.

**PERMA SHARP® SUTURES**
Perma Sharp sutures are specifically designed for dentists, with a fine point geometry for smooth penetration and laser-drilled needles to help reduce tissue disruption. Manufactured from 300 Series Stainless Steel, the ideal alloy for dental surgery needles, they provide a strong, sharp needle and increased ductile strength. Perma Sharp sutures ensure efficient and reliable soft tissue closure. Here are some suggested sutures for apical applications:

- 4-0 Silk, Black C-19, 18”
  - PSN7345
- 5-0 Polyester, D-14, 18”
  - PSN7773L
- 5-0 Polypropylene, C-4, 18”
  - PSN8245P

**SCALPEL HANDLES**
Our family of scalpel handles provide the maneuverability needed for effective blade cuts and incisions.

- 14
  - LaGrange Double-Curve 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S14SC Super-Cut with 1 serrated blade (pictured)
- 17
  - Iris Straight/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S17SC Super-Cut with 1 serrated blade (pictured)
- 18
  - Iris Curved/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S18SC Super-Cut with 1 serrated blade (pictured)

**TISSUE PLIERS**
Hu-Friedy has a wide assortment of cheek and tissue retractors for reflecting mucoperiosteal flaps, cheeks, lips and tongue away from the surgical site.

- Cawood-Minnesota Cheek/Tissue Retractor
  - CRM2
  - The CRM2 is longer than a CRM and has more curvature on the handle design for enhanced comfort and control. The pointed, yet blunt working end allows for secure retraction while not obscuring the field of view.

- Farabeuf Retractor Twin Set
  - TRFB
  - Its straight lines and flat blades make this simple design easy to clean, sterilize and store. The twin set offers flexibility and versatility in selecting which retractor to use based on patient, treatment and clinician preference.

- No. 5
  - Handle Option: #130-05
  - Made of surgical grade stainless steel, its sleek design includes a built-in blade tightener for added convenience.

**SUPER-CUT SCISSORS**
Hu-Friedy scissors are available in Super-cut, Perma-Sharp and Standard Series. Super-cut scissors feature a cutting blade which is honed and serrated to create razor sharpness, while the opposing blade is finished with fine serrations to avoid tissue slippage. Our extensive selection includes microsurgical, suture, Crown and Gold, bandage and general surgery scissors.

- 14
  - Iris Curved/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S18SC Super-Cut with 1 serrated blade (pictured)
- 17
  - Iris Straight/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S17SC Super-Cut with 1 serrated blade (pictured)
- 18
  - Iris Curved/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S18SC Super-Cut with 1 serrated blade (pictured)

**Tissue Pliers**
Hu-Friedy tissue pliers are made from surgical grade stainless steel and are available in plain, #2 or multiple teeth. The TP5072 combines the advantages of “plain” inserts in limiting soft tissue trauma with the ergonomic benefits of a sculpted handle.

- 14
  - Buser
    - PPUSER Handle options: #522, #532
      - The P9 periosteal has small and large ends for reflection of the flap.

- 15
  - LaGrange Double-Curve 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S14SC Super-Cut with 1 serrated blade (pictured)

- 16
  - Iris Straight/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S17SC Super-Cut with 1 serrated blade (pictured)

- 17
  - Iris Curved/Delicate 4-1/2” (11.5 cm)
    - 1 serrated blade
    - S18SC Super-Cut with 1 serrated blade (pictured)
EXPLORERS
Hu-Friedy’s endodontic explorers are made from a special blend of alloy which provides the flexibility, strength, tactile sensitivity and resilience clinicians need when exploring and assessing the treatment site. They are available in several double-ended designs and handles.

EXCAVATORS
Hu-Friedy’s endodontic excavators feature extended-length shanks and are meticulously handcrafted from the highest grade stainless steel. They help the clinician access the pulp chamber for easy and efficient removal of dentin. The result is a superior clinical outcome and improved efficiency.

DG16
| EXDG16
Handle options: #6, #7, #81

DG16/17
| EXDG16/17
Handle: #31

DG16/23
| EXDG16/23
Handle: #31

DG16/17
| EXDG16/17
Handle: #31

DG16/17
| EXDG16/17
Handle: #31

DG16/23
| EXDG16/23
Handle: #31

2 Glick
| EXDG12

3L
| EXC3L
Handle options: #6, #41

3L
| EXC3L
Handle options: #6, #41

3L
| EXC3L
Handle options: #6, #41

3L
| EXC3L
Handle options: #6, #41
ENDODONTIC ACCESSORIES

In addition to critical procedural instruments such as spreaders, pluggers and rubber dam clamps, endodontic accessories, the “staples” of the office, are available to complete the line-up of Endo Essentials.

POST & SILVER POINT REMOVAL FORCEPS

- Steiglitz Straight 5-1/2" (14 cm) | RFSTR
- Steiglitz (Archer) 45° 5-1/4" (13-1/2 cm) | RF45
- Steiglitz 90° 4-3/4" (12 cm) | RF90
- Peet 45° 4-3/4" (12 cm) | RFP

1 Mirror Handle | MH6602K
6° Stainless Steel Ruler | CLR6
6-1/2" (16-1/2 cm) Locking Pliers | EPL1

*Pictured at 50%.

SPREADERS

Hu-Friedy manufactures a wide variety of spreaders, all handcrafted from the finest stainless steel to precise specifications. Choose from NiTi spreaders, ISO sized spreaders with color coded handles for easy identification, heat carriers, and a variety of other popular spreaders. Our spreaders help the clinician gain access into the most difficult canals for optimal compaction of filling material during lateral condensation.
### ISO Sized Spreaders

ISO sized spreaders are color-coded for identification and convenience.

<table>
<thead>
<tr>
<th>Size</th>
<th>Diameter</th>
<th>Length</th>
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<tr>
<td>GP1</td>
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</tr>
<tr>
<td>1S Wakai</td>
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<td>30 mm</td>
</tr>
<tr>
<td>2S Wakai</td>
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</tr>
<tr>
<td>ISO Size 40</td>
<td>24 mm</td>
<td>30 mm</td>
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</tbody>
</table>

### Nickel Titanium Endodontic Spreaders

Nickel Titanium, or NiTi, points provide these spreaders with extra flexibility and “memory” while the ergonomic, color-coded Satin Steel handles provide maximum comfort, control and easy identification. Choose from nine popular designs.

<table>
<thead>
<tr>
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### Heat Carriers

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<td>RCS25SNT</td>
<td>RCS25NT</td>
<td>RCS25SNT</td>
<td>RCS3NT</td>
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<td>RCS25NT</td>
<td>RCS25SNT</td>
<td>RCS25NT</td>
<td>RCS25SNT</td>
<td>RCS3NT</td>
<td>RCS3NT</td>
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</tbody>
</table>

*D1 = Diameter of instrument 1 mm from the tip. These measurements (i.e., .30) appear next to the tips of the instruments.

ISO Spreaders have an ISO color-coded band on the handle for ease of identification during usage: #30-Blue, #40-Black, #50-Yellow, #60-Blue.

**HEAT CARRIERS**

<table>
<thead>
<tr>
<th>Code</th>
<th>25 mm</th>
<th>25 mm</th>
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<td>RCS50A</td>
</tr>
</tbody>
</table>

*D1 = Diameter of instrument 1 mm from the tip. These measurements (i.e., .30) appear next to the tips of the instruments.
When performing vertical condensation, choose from ISO-sized anterior or posterior options, Machotou, the Glick Blade/Plugger or other options. These pluggers are handcrafted to exact specifications using the finest materials.

ISO Pluggers have an ISO color-coded band on the handle for ease of identification during usage: #30-Blue, #40-Black, #50-Yellow, #60-Blue.

*D1=Diameter of instrument 1 mm from the tip. These measurements (i.e., .30) appear next to the tips of the instruments. Marked at 5 mm intervals to assess penetration depth.
### RUBBER DAM CLAMP ACCESSORIES & KITS

Our line of 48 Satin Steel matte finish rubber dam clamps wouldn’t be complete without these endo-essential accessories and kits. The IMS section of Endo Essentials includes IMS part boxes that are useful for clamp storage and sterilization.

#### RUBBER DAM CLAMP ORGANIZING BOARD

Store, sterilize and organize with eight pegs that securely hold your clamps. Clamps not included.

Dimensions: 4.62” x 2.4” x .375” (117 mm x 61 mm x 10 mm)

#### RUBBER DAM TEMPLATES

- Universal Rubber Dam Template
  - Adult template shown.
  - Pedodontic template also included.

- FDI Rubber Dam Template
  - Adult template shown.
  - Pedodontic template also included.

*A: Diameter of instrument 1 mm from tip. These measurements (i.e., .40) appear next to the tips of the instruments. The terms “Condensers” and “Pluggers” are interchangeable.

**Pictured at 50%.

### PLUGGERS

**Anterior Condensers**

Anterior condensers are 7 mm longer than posterior condensers.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
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<tbody>
<tr>
<td>88 mm</td>
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### POSTERIOR

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### RUBBER DAM CLAMP FORCEPS

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<tbody>
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### RUBBER DAM FRAMES

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<td>8 mm</td>
<td>7” (17-1/2 cm)</td>
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<tr>
<td>6-1/2 mm</td>
<td>6-1/2” (17 cm)</td>
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<tr>
<td>6 mm</td>
<td>6-3/4” (16 cm)</td>
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<td>6 mm</td>
<td>6-3/4” (15 cm)</td>
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<td>6 mm</td>
<td>6-3/4” (17-1/2 cm)</td>
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Ainsworth

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Length</th>
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<tbody>
<tr>
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<td>55 mm</td>
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*Pictured at 50%.

- RCP8
- RCP8-1/2
- RCP9
- RCP9-1/2
- RCP10
- RCP10-1/2
- RCP11
- RCP11-1/2
- RCP12
- RCP12A
- RCP11A
- RCP12A
- RCPA
- RCP-1/2A
- RCP9A
- RCP9-1/2A
- RCP10A
- RCP10-1/2A
- RCP11A
- RCP11-1/2A
- RCP12A
- RCP11-1/2
- RCP12
Rubber Dam kits and collections give clinicians more choices, from an entire kit to basic clamp set-ups.

### Rubber Dam Kits

<table>
<thead>
<tr>
<th>RDKIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic items needed for rubber dam procedures conveniently packaged in a kit (also available individually):</td>
</tr>
</tbody>
</table>

- Rubber Dam Clamp Forceps (RDF)
- Rubber Dam Punch (RDP)
- Rubber Dam Frame—Adult (RDAF6)
- Universal Rubber Dam Template (RDTUNIV)
- FDI Rubber Dam Template (RDTFDI)
- Rubber Dam Clamp Organizing Board (RDCOB)
- #0 Satin Steel Rubber Dam Clamp (RDCM0)
- #1 Satin Steel Rubber Dam Clamp (RDCM1)
- #2 Satin Steel Rubber Dam Clamp (RDCM2)
- #7 Satin Steel Rubber Dam Clamp (RDCM7)
- #8 Satin Steel Rubber Dam Clamp (RDCM8)
- #8A Satin Steel Rubber Dam Clamp (RDCM8A)
- #14A Satin Steel Rubber Dam Clamp (RDCM14A)
- #212 Satin Steel Rubber Dam Clamp (RDCM212)

### Rubber Dam Clamp 7 Pack

<table>
<thead>
<tr>
<th>RDCSET7</th>
</tr>
</thead>
</table>
| #00 Satin Steel Rubber Dam Clamp (RDCM00)
- #2 Satin Steel Rubber Dam Clamp (RDCM2)
- #7 Satin Steel Rubber Dam Clamp (RDCM7)
- #8 Satin Steel Rubber Dam Clamp (RDCM8)
- #8A Satin Steel Rubber Dam Clamp (RDCM8A)
- #9 Satin Steel Rubber Dam Clamp (RDCM9)
- #14A Satin Steel Rubber Dam Clamp (RDCM14A)

### Rubber Dam Clamp 8 Pack

<table>
<thead>
<tr>
<th>RDCSET</th>
</tr>
</thead>
</table>
| #0 Satin Steel Rubber Dam Clamp (RDCM0)
- #1 Satin Steel Rubber Dam Clamp (RDCM1)
- #14A Satin Steel Rubber Dam Clamp (RDCM14A)
- #2 Satin Steel Rubber Dam Clamp (RDCM2)
- #212 Satin Steel Rubber Dam Clamp (RDCM212)
- #7 Satin Steel Rubber Dam Clamp (RDCM7)
- #8 Satin Steel Rubber Dam Clamp (RDCM8)
- #8A Satin Steel Rubber Dam Clamp (RDCM8A)

### Rubber Dam Clamps

Hu-Friedy rubber dam clamps are made in the USA from proprietary Satin Steel for corrosion resistance, superior strength, and a fine balance between flexibility and memory. The matte finish on all 48 styles absorbs and dissipates light instead of reflecting it back, so you can experience a comfortable field of vision that is easier on the eyes — to help you perform at your best.
A complete line of Satin Steel® Rubber Dam clamps for anterior, premolar and molar applications.

**ANTERIOR**

- **RDCM9**
  - Offset flat serrated jaws for anterior teeth.
- **RDCM212**
  - Flat jaws for labial caries on anterior teeth.
- **RDCM212SA**
  - Slightly offset staggered jaws for odd shaped anteriors.
- **RDCM0**
  - Flat jaws and high bow for small lower canines and first premolars.
- **RDCM6**
  - Slightly offset jaws for labial caries on anterior teeth.
- **RDCM9S**
  - Offset flat jaws and stiff bow for anterior teeth.

**PREMOLARS**

- **RDCM1**
  - Slightly festooned jaws for upper premolars.
- **RDCM1A**
  - Deeply festooned jaws and extended bow for distal access to molars.
- **RDCM8A**
  - Deeply festooned four-point jaws for molars.
- **RDCM14**
  - Deeply festooned jaws for partially erupted or irregularly shaped molars.
- **RDCM8AD**
  - Deeply festooned jaws and extended bow for distal access to molars.
- **RDCM10**
  - Flat jaws designed for small upper left and lower right molars; paired with RDCM11.
- **RDCM11**
  - Flat jaws designed for small upper right and lower left molars; paired with RDCM10.
- **RDCM24**
  - Flat jaws for upper right and lower left molars; paired with RDCM25.
- **RDCM25**
  - Flat jaws for upper left and lower right molars; paired with RDCM24.
- **RDCM27**
  - Flat jaws for large molars.
- **RDCM56**
  - Slightly festooned jaws for large partially erupted or irregularly shaped molars.
- **RDCM29**
  - Flat jaws for lower premolars.

**MOLARS (GENERAL)**

- **RDCM8**
  - Deeply festooned four-point jaws for molars.
- **RDCM8A**
  - Deeply festooned four-point jaws for molars.
- **RDCM14**
  - Deeply festooned jaws for partially erupted or irregularly shaped molars.
- **RDCM14A**
  - Deeply festooned jaws for partially erupted or irregularly shaped molars; larger than RDCM14.
- **RDCM10**
  - Flat jaws designed for small upper left and lower right molars; paired with RDCM11.
- **RDCM25**
  - Flat jaws for upper left and lower right molars; paired with RDCM24.
HU-FRIEDY'S INSTRUMENT MANAGEMENT SYSTEM CYCLE

Optimal infection control and prevention are facilitated by the use of tools that allow for improved efficiency and safety. Instrument integrity is further enhanced by the use of Hu-Friedy’s Instrument Management System (IMS). IMS allows clinicians to move instruments from cleaning through chairside without touching or damaging the instruments.

Patient Preview & Presentation
• Systematically organizes instruments according to procedure type, allowing for more focus on patients and less time spent looking for missing instruments
• Neatly organized instruments offer more professional appearance and can help enhance referrals

Processed & Prepped
• Instruments are kept together throughout cleaning, rinsing and drying, reducing the potential for breakage or loss
• Allows for less handling of instruments, reducing the chance for sharps injuries

Neat & Complete
• Ready for use or storage until needed for increased time savings
• Complete procedural set-ups for easy set-up and teardown

Wrapped & Ready
• Cassette with instruments are packaged and placed in autoclave together to help reduce consumable usage
• Reduced handling of instruments provides safer protocol and minimizes liability
Signature Series® Cassettes are made of long-lasting, low-maintenance stainless steel. Soft, colored silicone rails securely hold instruments throughout the processing cycle. Available in over 100 different sizes, configurations and color options, and can be specialized to meet your needs.

**Durable Silicone Rails:**
Specifically designed to safeguard instruments from damage during processing.

**Efficient Hole Pattern:**
Protects instruments from protrusion while allowing for enhanced cleaning and sterilization.

**Smooth Round Corners and Slotted Edges:**
Increase drainage and reduce drying time.

**Electropolish:**
Provides a protective sheet against corrosion and a professional appearance.

**Positive Locking Mechanism:**
Provides a visual indication that cassette is locked for safety.

**Functional Accessory Area:**
Includes built-in needle cap holder and winged syringe slot for optimized positioning (available in some models).

### Signature Series Cassette Models

**Exam Cassette – 5 Instruments**
Holds 5 instruments. Exterior Dimensions: 3" x 8" x 1.25" (76 mm x 203 mm x 32 mm)
- Red | IM6050
- Gray | IM6051
- White | IM6052
- Orange | IM6053
- Yellow | IM6054
- Purple | IM6055
- Blue | IM6056
- Green | IM6059

**Small Cassette – 8 Instruments**
Holds 8 instruments with an accessory area. Exterior Dimensions: 5.5" x 8" x 1.25" (140 mm x 203 mm x 32 mm)
- Red | IMS060
- Gray | IMS061
- White | IMS062
- Orange | IMS063
- Yellow | IMS064
- Purple | IMS065
- Blue | IMS066
- Green | IMS067

**Signa-Stat Cassette – 12 Instruments**
Holds 12 instruments with an accessory area. Fits in SciCan STATIM or the Midmark M3 autoclave. Exterior Dimensions: 6.5" x 10.5" x 1.25" (165 mm x 267 mm x 32 mm)
- Red | IMB20
- Gray | IMB21
- White | IMB22
- Orange | IMB23
- Yellow | IMB24
- Purple | IMB25
- Blue | IMB26
- Green | IMB27

**Large Cassette – 16 Instruments**
Holds 16 instruments with an accessory area. Exterior Dimensions: 8" x 11" x 1.25" (203 mm x 280 mm x 32 mm)
- Red | IM460
- Gray | IM461
- White | IM462
- Orange | IM463
- Yellow | IM465
- Purple | IM466
- Blue | IM468
- Green | IM469

Available in an 8" x 10.5" x 1.25" size (IM412xQ) for unique autoclave tanks and available in a 12 instrument version with a larger accessory area (IM412x).

### Signature Series Clips

**Signature Series Air/Water Clip | IM1005**
Designed to fit large or small Signature Series Cassettes, and can be permanently installed.

**Signature Series Double-Decker Cassette Air/Water Clip | IM1006**
Designed to fit Double-Decker Signature Series Cassettes. Signature Series IMS clips can be permanently installed in your cassettes and can be permanently installed.

**Signature Series Cassette Barcode Clip* | IMS-CABL**
Dimensions: 3.75" x 2.26" x 0.067" (99 mm x 57.4 mm x 1.7 mm)
Snap on Barcode for outside of Cassettes. Contains laser marked barcode to be used for identification and tracking purposes. Compatible with standard barcode reader. Follows HIBC barcode standards. Lasermark tested to last more than 800 sterilization cycles.

*Picture at 75%.
IMS PARTS BOX

Designed to keep small items such as rubber dam clamps and matrix band retainers organized during the sterilization process.

IMS Large Parts Box

| IMS-1273
Exterior Dimensions: 3.5" x 1.25" x 1" (89 mm x 32 mm x 25 mm)

IMS Small Parts Box

| IMS-1271
Exterior Dimensions: 1.56" x 1.25" x 1" (40 mm x 32 mm x 25 mm)

IMS ENDODONTIC STAND

Hinged, double-lid stand holds endodontic files and reamers. Lid is etched with a ruler to measure stop positions easily from either direction.

IMS Endodontic Stand, Holds 24

| IMS-1275
Exterior Dimensions: 3.3" x 1.3" x 0.9" (84 mm x 33 mm x 22 mm)

IMS 1/2 Bur Cushion, Short Lid

| IMS-1372S
Holds 6 burs. Exterior Dimensions: 1.75" x 1.3" x 0.9" (44 mm x 33 mm x 22 mm)

IMS Bur Cushion, Short Lid

| IMS-1372S
Holds 6 burs. Exterior Dimensions: 1.75" x 1.3" x 0.9" (44 mm x 33 mm x 22 mm)

IMS 1/2 Bur Cushion, Tall Lid

| IMS-1372TH
Holds 6 burs. Exterior Dimensions: 1.75" x 2.44" x 0.9" (44 mm x 62 mm x 22 mm)

IMS Bur Cushion, Tall Lid

| IMS-1372T
Holds 12 burs. Exterior Dimensions: 3.3" x 2.44" x 0.9" (84 mm x 62 mm x 22 mm)

IMS Large Parts Box

| IMS-1273
Exterior Dimensions: 3.5" x 1.12" x 1" (89 mm x 29 mm x 25 mm)

IMS Small Parts Box

| IMS-1271
Exterior Dimensions: 1.56" x 1.25" x 1" (40 mm x 32 mm x 25 mm)

IMS BUR CUSHIONS

A hollow, rectangular, silicone base with a stainless steel lid that is designed to hold burs securely in place during cleaning and sterilization. Hollow design allows drainage and proper cleaning.

IMS Large Resin Clip

| IMS-1279
Exterior Dimensions: 2.6" x 1.3" x 0.9" (67 mm x 33 mm x 22 mm)

IMS Small Resin Clip

| IMS-1278
Exterior Dimensions: 1.75" x 2.44" x 0.9" (44 mm x 62 mm x 22 mm)

HINGED INSTRUMENT CLIPS

Secure scissors, hemostats and air/water syringe tips in lid of cassette.

Instrument Clips, 2-Hinged

| IM1002

Instrument Clips, 2-Hinged

| IM1000

NEEDLE CAP HOLDER

2 Needle Cap Holders

| IM1001

Needle Cap Holders

| IM1003

Combination Pack*

| IM1004

6 snap-in needle cap holders and 6 snap-in hinged instrument clips. Maintains cap in upright position for one-handed needle recapping.

ABOU-RASS MICROSURGICAL ENDODONTIC KIT

The instruments selected by Professor Marwan Abou-Rass for his new kit include those few that he relies on for clinical, education, and research activities. The entire collection of "MAR" instruments, which he uses in his work, can be found in the Microsurgical section of Endo Essentials.

A Professor Emeritus of the University of Southern California, Senior Academic Consultant at the Riyadh Military Hospital and General Director of the Prince Abdul-Rahman Advanced Dental Institute (PAADI), in Riyadh, Saudi Arabia, this Key Opinion Leader was instrumental in developing our apical product line.

PROFESSOR MARWAN ABOU-RASS

Key Opinion Leaders’ names are recognizable and their work is renowned. Hu-Friedy is honored to be in close association with Key Opinion Leaders, and it is a pleasure to present them to you as individuals full of life, character and vision. Hu-Friedy strives to supply our Key Opinion Leaders of all specialties with the most current offerings and information on our products and services. Being affiliated with outstanding dental professionals only helps to strengthen Hu-Friedy in our mission:

To improve lives through dentistry — smile after smile.
KEY OPINION LEADER KITS

HAHN ENDODONTIC
MICROSURGICAL KIT

Large Signature Series, 16 Instrument Cassette – Blue, or Large Signature Series, 13 Instrument DIN Cassette – Blue
Microsurgical Scissors, Straight, Castroviejo, 18 mm
Microsurgical Tissue Pliers, Curved, 18 mm
Microsurgical Needle Holder, Straight, Castroviejo
Microsurgical Scapel Handle
Microsurgical Periosteal
Spalte Periosteal (optional)
Mini Scalpel Blade
Labanca Periosteal, #6 Satin Steel Handle

CHIVIAN-ARENS
ENDODONTIC SURGERY KIT

Large Signature Series 12 Instrument Cassette – Gray, or Large Signature Series, 13 Instrument DIN Cassette – Gray
23/JUNC University of North Carolina Expro
1 Explorer
5 Scapel Handle
149 Periosteal
2/4 Molt Surgical Curette
1 Hourigan Retractor
1 Anterior Artes Tissue Retractor
2 Posterior Artes Tissue Retractor
85 Lucas Surgical Curette
87 Lucas Surgical Curette
17/18 Indiana University Curette
13/14 Columbia Curette
18 Iris Scissors Curved, Delicate
Matheu-Kocher Perma Sharp Needle Holder

KHAYAT ENDODONTIC SURGICAL KIT

Large Signature Series 20 Instrument Cassette – Blue, or Large Signature Series 18 Instrument DIN Cassette – Blue
Scapel Handle
Microsurgical Scapel Handle, Stainless Steel
Micro Mirror Round, 2.5 mm
Khayat Apical Plugger, with Satin Steel Handle
Khayat Instrument, with Satin Steel Handle
85 Lucas Surgical Curette, Spoon Shape, Short Satin Steel Handle
Velhart Conderiser, with Satin Steel Handle
NEW Perma Sharp General Tissue Pliers, 6” (15 cm)
PR-3 Prichard Periosteal, with Satin Steel Handle
13/14 Columbia Curette
Universal with Satin Steel Handle
34/35 Jacquette Scaler, Miniature, Posterior with Satin Steel Handle
99/92 Carver Discoid Cleoids, with Satin Steel Handle
DG 16/17 Endodontic Explorer, with Satin Steel Handle
Cawood-Minnesota Retractor
NEW Perma Sharp Needle Holder, Castroviejo Curved, Round Handle, 5.5” (14 cm)
14 LaGrange Double-Curved Super Cut Scissors

VELVART ENDODONTIC
MICROSURGICAL KIT

Large Signature Series 16 Instrument Cassette – Blue, or Large Signature Series 13 Instrument DIN Cassette – Blue
Scapel Handle
Microsurgical Scapel Handle, Stainless Steel
Micro Mirror Round, 7 mm x 2 mm
Microsurgical Needle Holder, 18 cm, Straight
Microsurgical Mirror Handle/Micro Scalpel Handle
Mini Scalpel Blade, 12 per pack
Mini Scalpel Blade, 12 per pack
Micro Surgical Scissors, 18 cm
Micro Tissue Pliers, 18 cm, Straight
Micro Tissue Pliers, 18 cm, Angled
Micro Tissue Pliers, 18 cm, Straight

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed. *Cassette sold separately.

--

| IM4168 or IM0138 |
| TPSLOCMN |
| NHPDV |
| PH26M |
| PPSPAHR6 |
| MB69 |
| PPLABANCA6 |

| IM421 or IMDIN38 |
| XP21/UNCS |
| EXO1 |
| P549 |
| CM2/4 |
| PFI7 |
| TRARENS1 |
| CL85 |
| CL87 |
| 517 |

| IM4208 or IMDIN38S |
| TPL072 |
| PPR336 |
| SC13/146 |
| S13/356 |
| C089/926 |
| EXD0176 |
| CRM2 |
| NHI021RC |
| SI45C |

| IM468 or IMDIN38 |
| MM4 |
| MM5 |
| MM7 |
| NHPDV |
| SHDPV |
| MB67 |
| MB69 |
| SPV |
| TP0APV |
| TP0SCPV |
| TP0SSPV |

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**PRE-TREATMENT KIT**

- **MACHTOU ENDODONTIC**
  - Qulix® UNC Color-coded Probe, #6 Satin Steel European Mirror Handle | MHE6
  - 5 Front Surface Mouth Mirror | MIR5
  - Kelly Hemostat, 14 mm | H1
  - #6 Satin Steel European Mirror Handle | MHE6
  - 5 Front Surface Mouth Mirror, Simple Stem | M5C
  - Iris Scissors, Straight, Delicate, 11.5 cm | S17

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue® Probe Tips, 12 pcs (3-6-9-12) | PCV12PT
  - Perma Sharp Needle Holder Crile-Wood | NH5038
  - Markel Adult Mouth Prop | MP54
  - #15C Scalpel Blades | 10-256-15
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

**TREATMENT KIT**

- **MACHTOU ENDODONTIC**
  - Large Signature Series 16 Instrument Cassette – Blue or Large Signature Series 16 Instrument DIN Cassette – Blue | MHE16
  - IMS Signature Cassette Clips, 2 | IMDIN168
  - Kelly Hemostat, 14 mm | H1
  - #6 Satin Steel European Mirror Handle | MHE6
  - Colorvue® Probe Tips, 12 pcs (3-6-9-12) | PCV12PT
  - iris Scissors, Straight, Delicate, 11.5 cm | S17
  - Colorvue Satin Steel Handle | PH6

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue Satin Steel Handle | PH6
  - Buser Periosteal, #6 Satin Steel Handle | RCPB6
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

**MICROSURGERY INSTRUMENT KIT**

- **MACHTOU ENDODONTIC**
  - Large Signature Series 16 Instrument Cassette – Blue or Large Signature Series 16 Instrument DIN Cassette – Blue | MHE16
  - IMS Signature Cassette Clips, 2 | IMDIN168
  - Colorvue® Probe Tips, 12 pcs (3-6-9-12) | PCV12PT
  - iris Scissors, Straight, Delicate, 11.5 cm | S17
  - Colorvue Satin Steel Handle | PH6

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue Satin Steel Handle | PH6
  - Buser Periosteal, #6 Satin Steel Handle | RCPB6
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

**ENDODONTIC SIGNATURE SERIES KIT**

- **MACHTOU ENDODONTIC**
  - Large Signature Series 12 Instrument Cassette – Gray, or Large Signature Series 13 Instrument DIN Cassette – Gray | IMDIN131
  - #6 Satin Steel Mirror Handle | MHE6
  - #9 Rubber Dam Clamp | RDCM9
  - #2 Rubber Dam Clamp | RDCM2
  - 4 Front Surface Mouth Mirror | MIR4
  - 1 Glick Blade/Endo Plugger | RCPGL1
  - Small Parts Box | IMS-1321
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue Satin Steel Handle | PH6
  - Buser Periosteal, #6 Satin Steel Handle | RCPB6
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.

**SKIM**

- **MACHTOU ENDODONTIC**
  - Large Signature Series 16 Instrument Cassette – Blue, or Large Signature Series 16 Instrument DIN Cassette – Blue | IMDIN168
  - IMS Signature Cassette Clips, 2 | IMDIN168
  - Colorvue® Probe Tips, 12 pcs (3-6-9-12) | PCV12PT
  - Iris Scissors, Straight, Delicate, 11.5 cm | S17
  - Colorvue Satin Steel Handle | PH6

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue Satin Steel Handle | PH6
  - Buser Periosteal, #6 Satin Steel Handle | RCPB6
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.

**SKIM**

- **MACHTOU ENDODONTIC**
  - Large Signature Series 16 Instrument Cassette – Blue, or Large Signature Series 16 Instrument DIN Cassette – Blue | IMDIN168
  - IMS Signature Cassette Clips, 2 | IMDIN168
  - Colorvue® Probe Tips, 12 pcs (3-6-9-12) | PCV12PT
  - iris Scissors, Straight, Delicate, 11.5 cm | S17
  - Colorvue Satin Steel Handle | PH6

- **VON ARX APICAL MICROSURGERY INSTRUMENT KIT**
  - Colorvue Satin Steel Handle | PH6
  - Buser Periosteal, #6 Satin Steel Handle | RCPB6
  - #1 Rubber Dam Clamp | RCD1
  - Rubber Dam Frame, Adult | RDAF6
  - Rubber Dam Clamp | RCDM1
  - Rubber Dam Clamp | RCDM12
  - Perma Sharp Needle Holder Cline-Wood | NH120
  - Colorvue® Probe Tips, 2 pcs (3-6-9-12) | PCV12PT
  - A/W Syringe Tip Clip | IM1005
  - Bur Cushion Short Lid, Holds 12 | IMS-1321
  - Rubber Dam Forceps | RDF

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.

**SKIM**
For more information about Hu-Friedy's Total Solutions visit

HU-FRIEDY.COM