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 11 countries – including our production facilities in Chicago and Shanghai, China; our distribution center in Tuttlingen, Germany; and our additional offices in Japan, Germany and Italy. 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 craftspeople, 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.
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.

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ENDODONTIC MICRO SURGERY

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.
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.
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.

*The terms “Curettes” and “Excavators” are interchangeable.

STRAIGHT

1 Abou-Rass Apical
| MAR-SC1

2 Abou-Rass Apical
| MAR-SC2

3 Abou-Rass Apical
| MAR-SC3

4 Abou-Rass Apical
| MAR-SC4

ANGLED

1 Abou-Rass
| MAR-C1

2 Abou-Rass
| MAR-C2

3 Abou-Rass
| MAR-C3

4 Abou-Rass
| MAR-C4

*The terms “Curettes” and “Excavators” are interchangeable.
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.

**Double-Ended**

1. **Explorer | MEX1**
   A popular, basic apical explorer used to initiate the tracking groove in the root tip, and for general exploration and probing.

2. **Explorer | MAR-EX2**
   A single-ended bone file styled explorer used to enlarge the opening made by MAR-EX1 into the cortical bone to allow drainage.

**Single-Ended**

3. **Explorer | MAR-EX3**
   A probe with one blunt flat and one round end; excellent for taking measurements, especially the direct root length of the apex.

4. **Explorer | MAR-EX4**
   Its straight, sharp working end is ideal for penetrating small osseous defects in cortical bone.

5. **Explorer | MAR-EX5**
   A 45° angled explorer used to check dentinal defects, such as root caries, root resorption and fracture lines.

6. **Explorer | MAR-EX6**
   A 90° angled, sharp-pointed explorer useful for detecting apical foramen and apical seal quality.
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.

Left Apical | MRFL
The left of two paired instruments that are used for filling, condensing and burnishing.

Right Apical | MRFR
The right of two paired instruments that are used for filling, condensing and burnishing.

PLUGGERS

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

Khayat | PFBK6
This versatile Khayat filling instrument has one angled and one straight spatula end. Useful for complex, deep apical treatments.

Left Apical | MRFL
Khayat

Right Apical | MRFR
Khayat

PLUGGERS

The Khayat and Velvart pluggers are useful for deep canal condensation, and can be used together for this purpose. Designed in conjunction with Dr. Bertrand Khayat and Dr. Peter Velvart.

Khayat | PLGBK6

Velvart | PLGVEL56

1 | PLGRF1
.80 mm

2 | PLGRF2
1.10 mm

1 | .45 mm

2 | .25 mm

.60 mm

.33 mm
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.

### Straight

- 0.5 mm
- 0.6 mm
- 0.8 mm
- 1.5 mm

### Angled

- 0.5 mm
- 0.6 mm
- 0.8 mm
- 2 mm

---

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

---

MICROSURGICAL ABOU-RASS

CONDENSERS/PLUGGERS

---

1.5 mm
2.0 mm
3.0 mm
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.
This family of ball 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.
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.
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 | MH6692K
With millimeter scale.

6" Stainless Steel Ruler | CLR6

6-1/2" (16-1/2 cm) Locking Pliers | EPL1

*Pictured at 50%.
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 Spreaders 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.
**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.

- D11 | RCSD11NT
- D11T | RCSD11TNT
- D11TS | RCSD11TSNT
- 25S | RCS25SNT
- 25 | RCS25NT
- 40 | RCS40NT
- 40S | RCS40SNT
- MA57 | RCSMA57NT
- 3NT | RCS3NT

**HEAT CARRIERS**

- 3 | RCS3
- GP2 | RCSGP2
- 0 | RCS0A
- 00 | RCS00A
- MA57 | RCSMA57
- GP3 | RCSGP3

*DI=Diameter of instrument 1 mm from the tip. These measurements (i.e., .30) appear next to the tips of the instruments.
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.
SLEIMAN PLUGGERS / HEAT CARRIERS

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCPSL172</td>
<td>0.40 mm - 0.74 mm</td>
</tr>
<tr>
<td>RCPSL275</td>
<td>0.50 mm - 0.80 mm</td>
</tr>
<tr>
<td>RCPSL376</td>
<td>0.66 mm - 0.96 mm</td>
</tr>
<tr>
<td>RCPSL478</td>
<td>0.78 mm - 1.20 mm</td>
</tr>
<tr>
<td>RCPSL577</td>
<td>0.90 mm - 1.45 mm</td>
</tr>
</tbody>
</table>

* 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.
**ANTERIOR**

Anterior condensers are 7 mm longer than posterior condensers.

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

| 00  | RDCM00 | Flat jaws and high bow for small lower canines and first premolars. |
| 9S  | RDCM9S | Offset flat serrated jaws for anterior teeth. |
| 6   | RDCM6  | Slightly offset jaws for labial caries on anterior teeth. |
| 9   | RDCM9  | Offset flat jaws and stiff bow for anterior teeth. |
| 212 | RDCM212| Flat jaws for labial caries on anterior teeth. |
| 212SA| RDCM212SA| Slightly offset staggered jaws for odd shaped anteriors. |

**PREMOLARS**

| 0   | RDCM0  | Flat jaws and high bow for longer premolars. |
| 1   | RDCM1  | Slightly festooned jaws for upper premolars. |
| 1A  | RDCM1A | Deeply festooned jaws for canines and premolars. |
| 2   | RDCM2  | Flat jaws for premolars. |
| 2A  | RDCM2A | Flat jaws for larger premolars. |
| 2AS | RDCM2AS| Flat serrated jaws for larger premolars. |
| W2  | RDCMW2 | Flat jaws for premolars. |
| 27N | RDCM27N| Slightly festooned jaws for premolars. |
| 29  | RDCM29 | Flat jaws for lower premolars. |
| 209 | RDCM209| Small, flat jaws with stiff bow for lower premolars. |
**Molars (General)**

<table>
<thead>
<tr>
<th>Molar</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8A</td>
<td>RDCM8A</td>
<td>Deeply festooned four-point jaws for molars.</td>
</tr>
<tr>
<td>8AD</td>
<td>RDCM8AD</td>
<td>Deeply festooned jaws and extended bow for distal access to molars.</td>
</tr>
<tr>
<td>W8A</td>
<td>RDCMW8A</td>
<td>Slightly festooned jaws for molars.</td>
</tr>
<tr>
<td>10</td>
<td>RDCM10</td>
<td>Flat jaws designed for small upper left and lower right molars; paired with RDCM11.</td>
</tr>
<tr>
<td>11</td>
<td>RDCM11</td>
<td>Flat jaws designed for small upper right and lower left molars; paired with RDCM10.</td>
</tr>
<tr>
<td>14</td>
<td>RDCM14</td>
<td>Deeply festooned jaws for partially erupted or irregularly shaped molars.</td>
</tr>
<tr>
<td>14A</td>
<td>RDCM14A</td>
<td>Deeply festooned jaws for partially erupted or irregularly shaped molars; larger than RDCM14.</td>
</tr>
<tr>
<td>W14A</td>
<td>RDCMW14A</td>
<td>Deeply festooned jaws for partially erupted or irregularly shaped molars.</td>
</tr>
<tr>
<td>18</td>
<td>RDCM18</td>
<td>Flat jaws and stiff bow for molars.</td>
</tr>
<tr>
<td>24</td>
<td>RDCM24</td>
<td>Flat jaws for upper right and lower left molars; paired with RDCM25.</td>
</tr>
<tr>
<td>25</td>
<td>RDCM25</td>
<td>Flat jaws for upper left and lower right molars; paired with RDCM24.</td>
</tr>
<tr>
<td>27</td>
<td>RDCM27</td>
<td>Flat jaws for large molars.</td>
</tr>
<tr>
<td>56</td>
<td>RDCM56</td>
<td>Slightly festooned jaws for large molars.</td>
</tr>
<tr>
<td>56S</td>
<td>RDCM56S</td>
<td>Slightly festooned serrated jaws for large partially erupted or irregularly shaped molars.</td>
</tr>
</tbody>
</table>

The Satin Steel matte finish reduces operatory light reflection for a comfortable field of vision that is easy on the eyes so you can perform at your best.
### RUBBER DAM CLAMPS

#### UPPER MOLARS

<table>
<thead>
<tr>
<th>4</th>
<th>RDCM4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat narrow jaws for small upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W4</th>
<th>RDCMW4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat narrow jaws for small upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>RDCM5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly festooned jaws for large upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8</th>
<th>RDCM8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deeply festooned jaws for upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>26N</th>
<th>RDCM26N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat jaws for upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>30</th>
<th>RDCM30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset jaws for upper right molars; paired with RDCM31.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>31</th>
<th>RDCM31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset jaws for upper left molars; paired with RDCM30.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>201</th>
<th>RDCM201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly festooned jaws for upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>205</th>
<th>RDCM205</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly festooned jaws for large upper molars.</td>
<td></td>
</tr>
</tbody>
</table>

#### LOWER MOLARS

<table>
<thead>
<tr>
<th>3</th>
<th>RDCM3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat narrow jaws for small lower molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W3</th>
<th>RDCMW3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat narrow jaws for small lower molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7</th>
<th>RDCM7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat jaws for lower molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7A</th>
<th>RDCM7A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly reversed festooned jaws for large lower molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W7</th>
<th>RDCMW7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat jaws for lower molars.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>12A</th>
<th>RDCM12A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated offset jaws for lower right molars; paired with RDCM13A.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13A</th>
<th>RDCM13A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serrated offset jaws for lower left molars; paired with RDCM12A.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>26</th>
<th>RDCM26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slightly reversed festooned jaws for small lower molars.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>28</th>
<th>RDCM28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat jaws for lower molars.</td>
<td></td>
</tr>
</tbody>
</table>
Rubber Dam Clamp Organizing Board
| RDCOB
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 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 TEMPLATES

Universal Rubber Dam Template
| RDTUNIV
Adult template shown. Pedodontic template also included.

FDI Rubber Dam Template
| RDTFDI
Adult template shown. Pedodontic template also included.

RUBBER DAM CLAMP FORCEPS

4
7" (17-1/2 cm)"
| RDF4
Rubber Dam Forceps
6-1/2" (17 cm)"
| RDF

RUBBER DAM FRAMES

Rubber Dam Frame
Child 5"
(13 cm)"
| RDCF5
Rubber Dam Frame
Adult 6"
(15 cm)"
| RDAF6

RUBBER DAM PUNCHES

Rubber Dam Punch
6-3/4" (16 cm)"
| RDP
Ainsworth
6-3/4" (17-1/2 cm)"
| RDPA

*Pictured at 50%.
Rubber Dam Kit

| RDKIT
Basic items needed for rubber dam procedures conveniently packaged in a kit (also available individually).

- 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

| RDCSET
#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

| RDCSET
#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
HU-FRIEDY'S INSTRUMENT MANAGEMENT SYSTEM

Hu-Friedy’s Instrument Management System, IMS, is the most comprehensive, reliable and complete instrument processing and infection control system on the market today. Your instruments are protected and secure so they last longer. Your staff benefits because instrument handling is decreased. Hu-Friedy’s long lasting, low maintenance stainless steel cassettes hold each procedural set-up through the entire cleaning, sterilization, storage and presentation cycle. IMS was designed for you and your busy practice—it’s adaptable, flexible, easy, safe and efficient.

1. **Chairside: 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

2. **Cleaning: 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

3. **Sterilization: Neat & Complete**
   - Cassettes with instruments are packaged and placed in autoclave together to help reduce consumable usage
   - Reduced handling of instruments provides safer protocol and minimizes liability

4. **Storage: Wrapped & Ready**
   - Ready for use or storage until needed for increased time savings
   - Complete procedural set-ups for easy set-up and teardown
Innovative color-coded silicone rail system, available in 11 color options, significantly reduces instrument contact by up to 59%, allowing for more water flow while protecting the instruments during reprocessing. (Figure 1)

Revolutionary new hole pattern design creates 30% additional open area for more access during cleaning and sterilization, and is compatible with current cleaning equipment, including automated washers.

High quality, electropolished stainless steel protects against corrosion while providing a professional appearance.

Ergonomic latch with positive locking mechanism is safe and easy-to-use, allows one-handed opening and visual confirmation if the cassette is locked / unlocked. (Figure 2)

New beveled edge allows for a more ergonomic grasp.

Smooth round corners and slotted edges increase drainage and reduce drying time.

Figure 1

Figure 2
Infinity 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, cassettes can be specialized to meet your needs.

### Exam Cassette
- **5 Instruments**
- **Exterior Dimensions**: 3” x 8” x 1.25” (76 mm x 203 mm x 32 mm)
- Holds 5 instruments.

### Signa-Stat Cassette
- **12 Instruments**
- **Exterior Dimensions**: 6.5” x 10.5” x 1.25” (165 mm x 267 mm x 32 mm)
- Holds 12 instruments with an accessory area. Fits in SciCan® STATIM® or the Midmark M3 autoclave.

### Small Cassette
- **8 Instruments**
- **Exterior Dimensions**: 5.5” x 8” x 1.25” (140 mm x 203 mm x 32 mm)
- Holds 8 instruments with an accessory area.

### Large Cassette
- **12 or 16 Instruments**
- **Exterior Dimensions**: 8” x 11” x 1.25” (203 mm x 280 mm x 32 mm)
- Holds 16 instruments with an accessory area.
- Also available in 8” x 10.5” x 1.25” size (IMN416xQ) to fit unique ultrasonic tanks.
CASSETTE ACCESSORIES

IMS CASSETTE BARCODE CLIP
Snap-on Barcode for outside of Cassettes | IMS-CABL
Dimensions: .75" x 2.26" x .067"
(19 mm x 57.4 mm x 1.7 mm)
Contains lasermarked 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. (Shown at 50% actual size.)

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: 2.6" x 2.25" x 1.2"
(67 mm x 57 mm x 30 mm)
IMS Endodontic Stand, Holds 48 | IMS-1275D
Exterior Dimensions: 2.6" x 2.25" x 1.2"
(67 mm x 57 mm x 30 mm)

AIR WATER SYRINGE CLIPS
Designed to fit large or small Resin Cassettes. Clip holds air/water syringe tip securely in place throughout cleaning and sterilization.
IMS Resin Cassette Clip | IMS-1278
For large resin cassettes
IMS Resin Cassette Clip | IMS-1279
For small two-tier resin cassettes

AIR AND WATER CLIPS
Designed to fit large or small Signature Series Cassettes. (pictured right) Signature Series IMS clips can be permanently installed in your cassettes
Infinity Series Air/Water Clip | IM1005N
Signature Series Air/Water Clip | IM1005
Infinity and Signature Series Double-Decker Air/Water Clip | IM1006

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 1.12" 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 Bur Cushion, Short Lid | IMS-1372S
Holds 12 burs.
Exterior Dimensions: 1.75" x 1.3" x 0.9"
(44 mm x 33 mm x 22 mm)
IMS 1/2 Bur Cushion, Short Lid | IMS-1372SH
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 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 RUBBER DAM CLAMP ORGANIZING BOARD
RDC Organizing Board | RDCOB
Dimensions: 4.6" x 2.4" x .375"
(117 mm x 61 mm x 10 mm)
Holds up to 8 clamps during sterilization. Fits into cassette accessory area.

HINGED INSTRUMENT CLIPS
Secure scissors, hemostats and air/water syringe tips in lid of cassette.
Hinged Instrument Clips, 2-Pack | IM1000
Hinged Instrument Clips, 6-Pack | IM1002

NEEDLE CAP HOLDER
Needle Cap Holders, 2-Pack | IM1001
Needle Cap Holders, 6 Pack | 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.

Complete list of cassette replacement parts can be found on Hu-Friedy.com/IMS-Replacement-Parts
KEY OPINION LEADERS

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.

ABOU-RASS MICRO SURGICAL 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

Large Signature Series 16 Instrument Cassette – Blue, or Large Signature Series 16 Instrument DIN Cassette – Blue | IM4168 or IMEDIN1385
IMS Signature Cassette Clips, 2 | 11000
#9 Molt Periosteal Elevator | P9
#1 Henahan Retractor | TRH1
#3 Abou-Rass Endo Excavator DE | MAR-C3
#3 Abou-Rass Surgical Curette SE | MAR-SC3
#1 Abou-Rass Endo Explorer DE | MAR-EX1
#DG16/17 DE Endodontic Explorer | EXDG16/17
#1 Abou-Rass Straight Apical Condenser | MAR-SAC1
#1 Abou-Rass Angulated Apical Condenser | MAR-AAC1
#3 Abou-Rass Straight Burnisher | MAR-SB3
#3 Abou-Rass Burnisher SE | MAR-B3
#50L Fox Tissue Pliers w/Lock | TP50L
#1 Velvart Endo Satin Steel Micro Mirror | MMVEL1
#2 Velvart Endo Satin Steel Micro Mirror | MMVEL2
Metzenbaum Perma Sharp Scissors Cv/Bl | S5055
Crile-Wood Perma Sharp Needle Holder | NH5038
Halsey Perma Sharp N.H., Serrated | NH5037
#4 Kramer-Nevins DE Curette | SKN4

Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes | IMN4168 or IMEDIN1885

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.
### HAHN ENDOdontic MICROsurgical Kit

<table>
<thead>
<tr>
<th>Large Signature Series, 16 Instrument Cassette – Blue, or Large Signature Series, 13 Instrument DIN Cassette – Blue</th>
<th>IM4168 or IMEDIN138</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsurgical Scissors, Straight, Castroviejo, 18 mm</td>
<td>SPV</td>
</tr>
<tr>
<td>Microsurgical Tissue Pliers, Curved, 18 mm</td>
<td>TPSLCOCMN</td>
</tr>
<tr>
<td>Microsurgical Needle Holder, Straight, Castroviejo</td>
<td>NHDPV</td>
</tr>
<tr>
<td>Microsurgical Scalpel Handle</td>
<td>SHDPV</td>
</tr>
<tr>
<td>Microsurgical Periosteal</td>
<td>PH26M</td>
</tr>
<tr>
<td>Spahr Periosteal (Optional)</td>
<td>PPSPAHR6</td>
</tr>
<tr>
<td>Mini Scalpel Blade</td>
<td>MB69</td>
</tr>
<tr>
<td>Labanca Periosteal, #6 Satin Steel Handle</td>
<td>PPLABANCA6</td>
</tr>
</tbody>
</table>

**Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes** | IMN4168 or IMEDIN138 |

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### CHIVIAN-ARENS ENDOdontic SURGERy Kit™

**| ENDO-SXKIT**

<table>
<thead>
<tr>
<th>Large Signature Series 12 Instrument Cassette – Gray, or Large Signature Series, 13 Instrument DIN Cassette – Gray</th>
<th>IM4121 or IMEDIN131</th>
</tr>
</thead>
<tbody>
<tr>
<td>23/UNC15 University of North Carolina Expro</td>
<td>XP23/UNC15</td>
</tr>
<tr>
<td>1 Explorer</td>
<td>EXD1</td>
</tr>
<tr>
<td>5 Scalpel Handle</td>
<td>10-130-05</td>
</tr>
<tr>
<td>149 Periosteal</td>
<td>P149</td>
</tr>
<tr>
<td>2/4 Molt Surgical Curette</td>
<td>CM2/4</td>
</tr>
<tr>
<td>1 Hourigan Retractor</td>
<td>PH1</td>
</tr>
<tr>
<td>85 Lucas Surgical Curette</td>
<td>CL85</td>
</tr>
<tr>
<td>87 Lucas Surgical Curette</td>
<td>CL87</td>
</tr>
<tr>
<td>17/18 Indiana University Curette</td>
<td>SIU17/18</td>
</tr>
<tr>
<td>13/14 Columbia Curette</td>
<td>SC13/14</td>
</tr>
<tr>
<td>18 Iris Scissors Curved, Delicate</td>
<td>S18</td>
</tr>
<tr>
<td>Mathieu-Kocher Perma Sharp Needle Holder</td>
<td>NH5074</td>
</tr>
</tbody>
</table>

**Also available in Infinity Series™ Cassettes (sold separately) and Infinity Series™ DIN Cassettes** | IMN4161 or IMEDIN131 |
<table>
<thead>
<tr>
<th><strong>KHAYAT ENDODONTIC SURGICAL KIT</strong></th>
<th><strong>VELVART ENDODONTIC MICROSURGICAL KIT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>IMKHAYAT1 (Europe)</td>
<td>IMKHAYAT2 (North America)</td>
</tr>
<tr>
<td>Large Signature Series 20 Instrument Cassette – Blue, or Large Signature Series 18 Instrument DIN Cassette – Blue</td>
<td>Large Signature Series 16 Instrument Cassette – Blue, or Large Signature Series 13 Instrument DIN Cassette – Blue</td>
</tr>
<tr>
<td>Scalpel Handle</td>
<td></td>
</tr>
<tr>
<td>Microsurgical Scalpel Blade/Mirror Handle, Stainless Steel</td>
<td>Microsurgical Mirror, 3 mm</td>
</tr>
<tr>
<td>Micro Mirror Round, 2.5 mm</td>
<td>Microsurgical Mirror, 5 mm</td>
</tr>
<tr>
<td>Khayat Apical Plugger, with Satin Steel Handle</td>
<td>Microsurgical Mirror, 7 mm x 2 mm</td>
</tr>
<tr>
<td>Khayat Instrument, with Satin Steel Handle</td>
<td>Microsurgical Mirror, 9 mm x 3 mm</td>
</tr>
<tr>
<td>BS Lucas Surgical Curette, Spoon Shape, Short Satin Steel Handle</td>
<td>Microsurgical Needle Holder, 18 cm, Straight</td>
</tr>
<tr>
<td>Velvart Condenser, with Satin Steel Handle</td>
<td>Microsurgical Mirror Handle/Micro Scalpel Handle</td>
</tr>
<tr>
<td>NEWI Perma Sharp General Tissue Pliers, 6&quot; (15 cm)</td>
<td>Mini Scalpel Blade, 12 per pack</td>
</tr>
<tr>
<td>PR-3 Prichard Periosteal, with Satin Steel Handle</td>
<td>Mini Scalpel Blade, 12 per pack</td>
</tr>
<tr>
<td>13/14 Columbia Curette, Universal with Satin Steel Handle</td>
<td>Micro Surgical Scissors, 18 cm</td>
</tr>
<tr>
<td>34/35 Jacquette Scaler, Miniature, Posterior with Satin Steel Handle</td>
<td>Micro Tissue Pliers, 18 cm, Straight</td>
</tr>
<tr>
<td>89/92 Carver Discoid-Cleoids, with Satin Steel Handle</td>
<td>Micro Tissue Pliers, 18 cm, Angled</td>
</tr>
<tr>
<td>DG 16/17 Endodontic Explorer, with Satin Steel Handle</td>
<td>Micro Tissue Pliers, 18 cm, Straight</td>
</tr>
<tr>
<td>Cawood-Minnesota Retractor</td>
<td>Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes</td>
</tr>
<tr>
<td>NEWI Perma Sharp Needle Holder, Castroviejo Curved, Round Handle, 5.5&quot; (14 cm)</td>
<td></td>
</tr>
<tr>
<td>14 LaGrange Double-Curved Super Cut Scissors</td>
<td></td>
</tr>
<tr>
<td><strong>Also available</strong> in Infinity Series™ Cassettes (sold separately) and Infinity Series™ DIN Cassettes</td>
<td></td>
</tr>
</tbody>
</table>

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.
MACHTOU ENDODONTIC PRE-TREATMENT KIT*

Large Signature Series 16 Instrument Cassette — Blue or Large Signature Series 16 Instrument DIN Cassette — Blue

IMS Signature Cassette Clips, 2
IMS Bur Cushion, Short Lid, Holds 12
Articulation Paper Pliers
Hollenbach Carver, #6 Satin Steel Handle
Universal Pliers
Endodontic Excavator, #6 Satin Steel Handle
Explorer, #30 Handle, 12.5 mm
Kelly Hemostat, 14 mm
5 Front Surface Mouth Mirror
#6 Satin Steel European Mirror Handle
Quixx® UNC Color-coded Probe, #6 Satin Steel Handle
Loesche 2 Composite/Filling, #6 Satin Steel Handle
Rubber Dam Frame, Adult
#1 Rubber Dam Clamp
#212 Rubber Dam Clamp
#26N Rubber Dam Clamp
#4 Rubber Dam Clamp
#8 Rubber Dam Clamp
#9 Rubber Dam Clamp
#W8A Rubber Dam Clamp
Rubber Dam Clamp Forceps
Iris Scissors, Straight, Delicate, 11.5 cm
2045 Sickle Scaler, #6 Satin Steel Handle
Anesthetic Syringe, Type CW

Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes

MACHTOU ENDODONTIC TREATMENT KIT*

Large Signature Series 16 Instrument Cassette — Blue or Large Signature Series 16 Instrument DIN Cassette — Blue

IMS Signature Series Large Parts Box
Cement Spatula
1 Perry Dressing Pliers
DG16 Explorer, #7 Satin Steel Colours Handle
5 Front Surface Mouth Mirror, Simple Stem
#6 Satin Steel European Mirror Handle
10 Root Canal Plugger
11 Root Canal Plugger
8 Root Canal Plugger
9 Root Canal Plugger
1/2 Machtou Root Canal Plugger
3/4 Machtou Root Canal Plugger
11T Spreader
Iris Scissors, Straight, Delicate, 11.5 cm

Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes

*Add cassette clips, to anchor instruments to the top of your cassette, and add accessories as needed.
**VON ARX APICAL MICROSURGERY INSTRUMENT KIT**

Large Signature Series 20 Instrument Cassette – Blue, or Large Signature Series 18 Instrument DIN Cassette – Blue

- Signature Series Cassette Clips, 2
- 10-130-05E
- 10-256-15
- CL846
- CL866
- EXC32L6
- EXCE16
- MAR-C1
- MCBLL
- MCBLM
- MCBLS
- MCBRL
- MCBRM
- MCBRS
- MEX16
- MP54
- NH5024
- NH5038
- PCV12PT
- PH6
- PPBUSER6
- PPR3/9A6
- STMBH
- TPNF18A
- TPASTM8B
- IMN4208 or
- IMDIN138S

**ENDODONTIC INFINITY KIT**

Large Infinity 12 Instrument Cassette – Gray, or Large Signature Series, 13 Instrument DIN Cassette – Gray

- #6 Satin Steel Mirror Handle
- 4 Front Surface Mouth Mirror
- DG16 Endo Explorer, #6 Satin Steel Handle
- 1 Locking Endo Pliers
- 3IL Endo Excavator, #6 Satin Steel Handle
- D11 Nickel Titanium Endo Spreader
- 1/3 Endo Plugger
- 5/7 Endo Plugger
- 9/11 Endo Plugger
- 1 Glick Blade/Endo Plugger
- Miller Articulating Paper Forceps
- CW Aspirating Anesthetic Syringe
- Rubber Dam Forceps
- #1 Rubber Dam Clamp
- #2 Rubber Dam Clamp
- #9 Rubber Dam Clamp
- #26N Rubber Dam Clamp
- Endo Stand, Holds 24 Files and Reamers
- Small Parts Box
- Bur Cushion Short Lid, Holds 12
- A/W Syringe Tip Clip
- Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes

**ENDODONTIC INFINITY KIT 2**

Large Infinity 12 Instrument Cassette – Gray, or Large Signature Series, 13 Instrument DIN Cassette – Gray

- #6 Satin Steel Mirror Handle
- 4 Front Surface Mouth Mirror
- DG16 Endo Explorer
- 5 Explorer
- CP-12 Probe
- DG16 Endo Pliers
- 3IL Endo Excavator
- D11T Endo Spreader
- 5/7 Endo Plugger
- 1 Glick Blade/Endo Plugger
- Bur Cushion
- Small Parts Box
- #1 Rubber Dam Clamp
- #2 Rubber Dam Clamp
- #9 Rubber Dam Clamp
- #26N Rubber Dam Clamp
- Rubber Dam Forceps
- Miller Articulating Paper Forceps
- Also available in Infinity Series™ Cassettes and Infinity Series™ DIN Cassettes

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

†Add a RDP or RDPA Rubber Dam Punch to your kit, and additional clamps such as the RDCM12A – paired with RDCM13A.