I am excited to introduce the latest advancements in dental instrumentation brought to you by Hu-Friedy! Founded in Chicago, Illinois in 1908, Hu-Friedy creates innovative dental products that improve the work of clinicians and the quality of life for patients. We are committed to helping the best perform through craftsmanship, dedication to customer care, and a passion for supporting the global dental community. With more than 10,000 products in a wide range of specialties that include orthodontics, pedodontics, restoratives and more, we lead the industry in innovation and technology development.

Our products are meticulously produced by our own in-house, highly skilled artisans and we provide the highest-level of full-service support to our customers before, during and especially after the sale.

Ten years ago, we introduced our Everedge scaler to serve your need and desire for a sharper instrument that lasts longer. It quickly became, and remains, the top selling scaler in the world. And now, we have done it again - but better! Due to advancements in technology, metallurgy and our investments in advanced manufacturing techniques, we have developed a new product which is EVEN SHAPER & LONGER LASTING! You will be amazed at how well EVEREDGE 2.0 performs.

Hu-Friedy is also proud to introduce the complete Swiss Perio Kit, created in collaboration with Dr. Rino Burkhardt. This kit has been designed with specifically created instruments and with Black Line Surgical Technology. There is simply no better choice for Periosurgical work.

Precision, handling and control are absolutely necessary to perform today’s advanced surgical techniques successfully and for this reason, Hu-Friedy has designed the Black Line Collection. Hu-Friedy, however, is not only a manufacturer of quality dental instruments - we are proud to be a full service company that stands behind our products and the people who use them.

Along with our robust Instrument Management System solutions, please browse this magazine for a complete overview of all Hu-Friedy’s new products and services.

Visit us at www.hu-friedy.eu to learn more!

Hu-Friedy has been a recognised industry leader since its foundation more than 110 years ago, continually focusing on a commitment to improving advanced dental performance. IGS always represents an important opportunity for Hu-Friedy to not only present innovation, be it in R&D or technology, but also to renew strategic alliances and partnerships with the most inspiring industry thought leaders. The aim is to always provide customers only the best the industry can offer.

For several years, Fabio Molinaro has led Hu-Friedy EMEA through an exciting transition phase, where the company has further enhanced its focus on delivering not only the best products to the market, but also state of the art pre and post sales service. He has also overseen an expansion of strong partnerships with both leading dental professionals and teaching institutions across the region.

Fabio, what is the message that you want to deliver to Clients and Partners visiting Hu-Friedy at IDS 2017?

First, I would like to share my great excitement to be here at IDS 2017 to introduce EVEREDGE 2.0 Technology, that will provide Clinicians with the sharpest and longest lasting line of Graceys and scalers in the market. This reaffirms our strong commitment to innovation, driven by a deep understanding of the real needs of our customers; dental professionals that want to perform at their best without accepting compromises. This can happen only thanks to a close dialogue with our unique network of the most influential global opinion leaders, that choose to partner with us every day to deliver the best results using new techniques and technology. This partnership leads to inspirational product design, such as our Black Line Collection, engineered to optimise clinical outcomes by delivering efficiency throughout the entire surgical procedure. By delivering this clinician led design, Black Line instruments reduce light reflection, enhance site visibility and deliver optimum balance for ease of handling.

Second, IDS 2017 gives us the opportunity to fully implement our vision to become a total solution partner for clinicians, offering a unique combination of products and services, leveraged by the skills of our team.

Sounds exciting, indeed. So what is a Total Solution Partner and how do you see Hu-Friedy playing this role in Europe?

Looking at the career of a dental professional from the earliest years at school, we now see increasing complexity and consequently the need for us to be a partner and consultant, rather than simply proposing a range of products. The unique value we offer is evident in over 100 years of clinical experience, alongside unmatched knowledge of the instrumentation clinicians use day in and day out. Our range spans from diagnostic to infection control, meaning the widest portfolio available for every clinician operating in a modern dental studio.

The partnerships we create globally with clinicians throughout their career allow us to listen, act, execute and support wherever a new idea, clinical need or technique is at its earliest stage. This means we can develop the tools to support these new innovations and deliver them quickly to the market.

The collaboration of the most influential dental professionals along with our world class team of engineers working together to develop the products of the future is the secret of our continuous innovation that, combined with the talents of our team, allows us to anticipate the needs of our customers in every country and build a customised solution, unique to their individual requirements.

Dental Professionals across Europe have recognised and favored this approach and reconfirmed our leadership in the field. This echoes reactions we have enjoyed in other parts of the world, where this collaborative approach has been in place for many years. As such, we are working to further develop these partnerships and continue to leverage effective partnership with clinicians in all that we do.

This will begin with the introduction of our
University Program, that combines products, training and education (to both students and faculty) in a way that is custom built around the needs of each school. We have the unique experience of our 50 year long partnership with North American Universities and this will be adapted to suit the needs of our own educational sector.

Our newly upgraded technical care center, based in our facilities in Tuttingen, further increases our goal of maximising the useful life of our instruments. This post-sale service allows dental professionals to ensure their instruments always perform at their best and for the longest time possible.

So, our role is straightforward: a focus on education and innovation, clinical partnerships, outstanding post-sale service and support for the dental community delivered globally and regionally through our expert team.

This is a really interesting approach and it seems to go beyond just clinical needs?

For sure: we are all strongly committed to the mission of our company, which is improving lives by advancing dental performance, smile after smile.

It's an exciting opportunity for all of us at Hu-Friedy to contribute to the success of our customers, and their smiles are the best rewards for us.

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Stay tuned!
ASK FOR YOUR ELECTRONIC COPY!
myownlibrary@hu-friedy.eu
Hu-Friedy, its latest innovation in hand scaling

Hu-Friedy, a global leader in the manufacturing of dental instruments and products, introduces EVEREDGE 2.0, its latest innovation in hand scaling instrumentation, designed to help clinicians achieve the best clinical outcomes.

Leveraging decades of instrument making experience, Hu-Friedy developed EVEREDGE 2.0 using a proprietary heat treatment process and enhanced finishing techniques. The optimised steel of EVEREDGE 2.0 has superior edge retention and wear characteristics that will last the entire life of the instrument. Since it’s not a superficial coating, these characteristics cannot be removed through use or sharpening. EVEREDGE 2.0 Scalers can be resharpened at any point to extend their life and value.

“Hu-Friedy introduced our original EverEdge scalers ten years ago to satisfy practitioners’ desire for a sharper instrument that lasts longer,” shares Ron Saslow, Hu-Friedy CEO and Chairman of the Board. “While EverEdge scalers quickly became, and remain, the top selling scaler brand in the world, we challenged ourselves to develop an even more advanced instrument to help practitioners perform at their best. We are very proud of the result, EverEdge 2.0, which allows clinicians to deliver the best possible outcomes for their patients.”

Understanding the critical importance of scientific evidence in supporting product performance, Hu-Friedy engaged an independent third-party laboratory specializing in blade technology, CATRA*, to conduct a detailed scientific sharpness test. The independent test evaluated EVEREDGE 2.0 and several competitive scalers on two important characteristics: Sharpness and Edge Retention.

The test results show that Hu-Friedy’s EverEdge 2.0 is 72% sharper out of the box and after repeated use (500 strokes), EverEdge 2.0 remains 50% sharper when compared to the competition.

“The goal of this scientific study was to provide objective information about which scaler starts sharper and stays sharper longer, because that is what clinicians need in order to provide the best patient experience,” shares Ken Serota, president of Hu-Friedy. “The research on EverEdge 2.0 both validates and supports that goal.”

Dental hygiene textbooks and educators acknowledge that sharper scalers are critical for effective removal of deposits during oral prophylaxis procedures.

A sharper scaler is better because it is more:
- Clinically effective since calculus is easily removed, not burnished
- Comfortable for clinicians, causing less hand and wrist fatigue
- Comfortable for patients due to less pressure needed for calculus removal
- Efficient as less time is needed to scale

EVEREDGE 2.0 instruments are available in the popular original EVEREDGE diamond-knurled, large-diameter handle, as well as the Resin 8 Colors handle, a lightweight resin handle featuring a color-coded system to easily identify scalers and curettes that correspond to areas of the mouth. The new purple grips allow for easy identification of the EVEREDGE 2.0 scalers in each set-up.

*The independent testing on the scalers was conducted by CATRA (Cutlery Allied Trades Research Association), a specialised blade laboratory.
Why use EVEREDGE 2.0?

Being a professional in dental hygiene for so many years, I am truly convinced that, like all other sciences, it’s our duty to keep up with technology and constantly improve our performance. Trusting the brand is the first step, trying the tools and making one’s own opinion is the second. Research shows that the steel featured in EVEREDGE 2.0 maintains its sharpness 45% more than the original EVEREDGE. Leveraging a superior heat control process, enhanced finishing process and an optimised steel, EVEREDGE 2.0 features blades that are scientifically measured to keep the blade sharper for a significantly longer duration of time. That is why one should use it: try it and see for yourself!

Which are the technical advantages?

First of all, let’s be honest: sharpening instruments is never fun or exciting. Most of the time when we realise an instrument should be sharpened, it is at the chairside, while we are actually using the instrument! Therefore, it is very important to use tools that maintain their edge over time and perform at their best with repeated use. On the other hand, we need to have instruments which we are able to sharpen to perform effectively across all dental procedures.

What are the advantages for the dental hygienist and for the patient?

The dental hygienists will have in their hand the sharpest and longest lasting scaler in the market. Hu-Friedy’s new technology provides the durability needed for effective procedures and continued use. This means, in clinical practices, less fatigue, less force to apply to the tooth surface, less chance to slip on the calculus and easier instrumentation on heavy and fine deposits. This will also shorten the debridement process, lead to a greater patient comfort and, eventually, promote happier hygienists and patients!

Which are the best features of EVEREDGE 2.0?

The initial feeling one has when using EVEREDGE 2.0 for the first time is its sharpness! It almost feels like a scalpel. When using EVEREDGE 2.0 in a clinical setting, it’s easy to understand why this is such a superior instrument. As a hygienist, you will perform better, sharpen less and your patients will thank you for it! I urge you to try it and see for yourself.

Consolata Pejrone, RDH has a Certificate Degree in Dental Hygiene from Forsyth School for Dental Hygienists and an Associate of Science in Dental Hygiene by the College of Pharmacy and Allied Health Professions of Northeastern University in Boston, Massachusetts (USA). She obtained the attainment of the National Board for Dental Hygienists, the Northeast Regional Board in Boston and the California Board at the University of Southern California in Los Angeles. Since 2006 she is a faculty member in the Dental Hygiene School at the University of Turin, Italy. At the day she practices the profession as dental hygienist in different private practices in Northern Italy. Speaker of several national and international continuing educational programs, she holds lectures to dental hygienists, dental assistants, general dentists, periodontists and medical doctors.

**STAYS SHARPER EVEN LONGER**

**UNCOATED PERFORMANCE**

**SHARPEST BLADES**

*HOW EVEREDGE® 2.0 TECHNOLOGY COMPARES AGAINST COMPETITORS*

**EDGECOMPRESSION THROUGH 500 STROKES**

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BLACK LINE

Innovative instruments engineered with the newest technology «a must have»
Black Line Surgical Collection and the Swiss Perio Kit

DISTINCT BLACK FINISH FOR REDUCED LIGHT REFLECTION AND ENHANCED CONTRAST

PERFORMANCE ENGINEERED COATING FOR ENHANCED LUBRICITY AND VISUAL ACUITY AT THE UNDERLYING TISSUE

SMOOTH, LARGE DIAMETER HANDLE FOR MAXIMUM COMFORT AND REDUCED HAND FATIGUE

Future-oriented innovation on the market.
Nowadays precision, handling and control are absolutely necessary to meet and perform today’s advanced surgical techniques successfully.

THE BLACK LINE COLLECTION
Hu-Friedy has introduced a future-oriented innovation on the market.
The Black Line is designed to optimize clinical outcomes by delivering efficiency throughout the entire periodontal and surgical procedure featuring a matte finish handle which reduces glare when the oral cavity is brightly illuminated. The Black working tips present excellent contrast against the gingival tissue and can be distinguished clearly at all times. Improved visibility increases control and enhances precision during the tunneling and microsurgical techniques of intervention.

Handmade to exacting specifications and engineered with corrosion resistance Immunity Steel® alloy, the Black Line retain their efficiency, even during prolonged surgical procedures. Due to their special surface performance engineered coating, the working tips remain hard and smooth for optimised edge retention. Featuring a unique, smooth, large diameter handle for maximum comfort and reduced hand fatigue, increasing control throughout the entire surgical procedure, the ergonomic handles have a large diameter and are lightweight. This enables relaxed handling and increases comfort.

The handcrafted Black Line instruments include periosteals, periodontal knives, periodontal elevators, surgical curettes, bone chisels, and sinus lift instruments plus 7 Super-Cut scissors.

With its series of short Satin Steel Handles, Hu-Friedy further extends its surgical portfolio in the field of periodontology and implantology. The high quality instruments have shorter handles than standard instruments and will therefore fit any DIN cassette without difficulties. Among other items, the product range includes surgical curettes, knives as well as instruments for sinus elevation.

The instruments are made of durable Satin Steel and can be cleaned and sterilised any number of times.

The feedback of one of our Key Opinion Leaders, according to Dr. Karl Koerner, the Black Line represents “a coming together of smart instrument usage and the newest technology, for a ‘home run’ in surgical armamentarium.” He added that “the enhanced lubricity, prolonged edge retention, black finish for contrast at the surgical site, and more ergonomic handle make this is a ‘must have’ for those doing exodontia.”

Dr. Peter Haupers Jr. added that “the edge remains nice and sharp for a long time—consistent with Hu-Friedy quality.”

Dr. Jon Suzuki said “The Black Line instruments are extremely well made and handle with ease during extended surgical procedures. I was amazed to find the cutting edge of the Black Line instruments maintain their acuity throughout the entire periodontal surgery.”

Ken Serota, President of Hu-Friedy, said of the new collection, “We continually challenge ourselves to develop unique, high-quality instruments like the Black Line Collection. These instruments were truly developed with the practitioner in mind—providing a reliable solution that will advance their performance in even the most complicated surgical procedures.”

PLAY WITH US VISIT OUR BOOTH AND ENJOY THE SWISS PERIO KIT EXPERIENCE
In the last decade there is a huge tendency for dentists to specialise and choose one field in which they want to be qualified. How and why have you chosen the oral surgery?

Focus is quintessential if you strive for perfection, which is why I am a firm believer in the need to specialise in one area in order to reach excellence. Dentistry is a medical field that requires artistic skills and during my undergraduate years the medical aspects of this profession attracted me. Therefore chose oral surgery because it incorporates a substantial amount of biology and diagnosis and it relies on experience, clinical skills and analytical abilities. With the advent of dental implants and concomitant soft and hard tissue grafts, oral surgery became more as a specialty aiming to reconstruct esthetics and function, giving patients a better quality of life. Today with the addition of technology to the mix, the challenges are countless yet they are outnumbered by the possibilities.

How important are the instruments during a surgical procedure?

In advanced oral surgery, precision is of the utmost importance and adequate instrumentation is thus crucial for a successful surgical act. Even the most skilled surgeon cannot get optimal results without the proper tools and surgical instruments. Today, Companies such as Hu-Friedy offer an armamentarium of surgical instruments aiming to help surgeons perform the best for their patients.

What is your main advice to your residents and students concerning the choice of materials?

When addressing the subject of instrument selection, I recommend my residents to abide by simple yet essential criteria: quality, comfort and efficiency. If I have one advice for them I would say that it takes no compromise to choose the very best for your patients!

You choose to work with Hu-Friedy equipment. What is the reason for your choice?

In more than 20 years of specialised practice, I have tried and tested countless instrument types and designs and the Hu-Friedy Black Line instruments are my tools of choice. They feature many attributes that make them a very easy choice. The smooth lightweight handles are extremely comfortable to work with, even in long surgeries, since they minimise hand fatigue and allow maximum control. The black, matte and non-reflective working ends ensure better visual acuity and reduce vision discomfort making surgeries less challenging. Black Line instruments are also very efficient and well designed, their engineered coating allow better control and precision through their prolonged edge retention and enhanced lubricity, giving the surgeon a “new instrument feeling” at every surgery.
Infection Control Guidelines

Prior to the investment of any infection prevention and safety product, dental personnel should first and foremost consider compliance with guidelines and regulations. The Centers for Disease Control and Prevention (CDC) Guidelines for Infection Control in Dental Health-Care Settings–2003 set the standard for the infection control and safety practices used by dental professionals in the United States. In 2006, the CDC issued Summary of Infection Prevention Practices in Dental Settings: Basic Expectations for Safe Care, which reinforces the existing guidelines, adds new recommendations, and provides checklists to help dental personnel comply with recommended practices. The CDC provides many recommendations for infection prevention and safety, and OSHA mandates many of these recommendations to ensure the safety of dental healthcare personnel. Neither entity mandates the use of trays or cassettes; however, both agencies recommend minimal handling of loose contaminated instruments.

Staff Training and Safety

Proper training of dental personnel who process instruments is important for either method. The CDC recommends, and OSHA mandates, that personnel are trained for their specific job duties upon hire, annually, and whenever job duties that pose an occupational risk are changed. General training requirements include ways to reduce risk of contracting an illness or injury on the job, policies and procedures for reporting injuries, and obtaining medical care. In addition, training should also include reporting any medical conditions that may make you more susceptible to injury or infection (or that may create a risk of transmission to other staff or patients). It is necessary to train DHCP on all processing steps, including instrument transport, cleaning, inspection, packaging, sterilisation, sterilisation monitoring, and storage. DHCP must also be trained to follow all manufacturer instructions for use (IFU) for all products and equipment used for cleaning, packaging, and sterilisation. Policies, procedures, and manufacturer reprocessing and maintenance instructions for reusable instruments and dental devices must be available in or near the reprocessing areas to ensure that all equipment is used and working correctly. When processing loose instruments, DHCP handle contaminated instruments more often than when using cassettes. This poses more vulnerability, as there is an increased risk for sharps injury and/or exposure to bloodborne pathogens. In contrast, cassettes minimise the handling of loose instruments in all phases of reprocessing. Regardless of the system that is utilised, it is recommended for DHCP to wear heavy-duty utility gloves when handling contaminated instruments.

Efficiency and Productivity

When loose instruments are placed into several different pouches, organization and storage can be compromised. Dental personnel must sort through each pouch to observe whether it is indeed the correct set-up, and whether all instruments are present. As pouches are emptied onto a tray, the contents spill in random order and may even find their way to the floor. In contrast, sterilisation cassettes include silicone rails, which ensure that Instruments are aligned and in sequence. As the cassette is opened in the operatory, instruments remain in place, arranged in order of use. After the procedure, DHCP return the various instruments to their correct location and they remain in place throughout reprocessing.

Instrument Preservation and Packaging Integrity

When processing loose instruments, they can move about freely, causing damage to their tips or other items in the load. It is common for mouth mirrors to become scratched while being cleaned in an ultrasonic unit, and for the tips of explorers and probes to become damaged, distorted, or bent. However, in cassettes, instruments are held securely in place, reducing the chance of damage or loss of instruments. Pouches with a greater number of loose instruments and those with sharp tips will enhance the likelihood of a pouch perforation. When this happens, the contents of the pouch are no longer considered sterile and the instruments must be removed and reprocessed, presenting a safety concern. In contrast, wrapped or pouched cassettes are rarely, if ever, compromised as sharp tips are securely contained within. Pouches and cassettes may also be compromised due to moisture. Dental personnel must keep all instrument packages clean and stored once dry to ensure sterility.

Additional Considerations

Cassettes may hold unit dose supplies that can be added after cleaning, rinsing, and drying to eliminate the need to touch cabinets, drawers, and containers during treatment. Both pouches and cassettes are available in a multitude of sizes to accommodate all types of instrument set-ups. When using cassettes, it is important to ensure that the cassette size is compatible with the size of the automated cleaner and heat steriliser. As dental personnel compare delivery systems, it may appear that the use of pouched instruments on trays may be more cost-effective than cassettes. It is true that there is an initial investment with cassette usage. However, DHCP should weigh the cost versus benefit and timesavings during instrument processing (in addition to safety, efficiency, and productivity). Cassette usage may also provide a more professional and up-to-date appearance and improve patient confidence. Whether processing loose instruments in pouches, or secured in cassettes, help is available for all phases of instrument processing through resources from the CDC, OSHA, state, and the Organization for Safety, Asepsis and Prevention (OSAP, www.osap.org) to deliver the safest dental visit possible.

Conclusion

Delivery systems consisting of loose instruments on trays or instruments in cassettes are both widely used in the United States. No matter which system is chosen, compliance with infection control guidelines and regulations and safety of staff and patients should remain top priority.

About the Authors

Catherine L. Pawloski, RDH, currently works in clinical practice in Michigan. She has written articles relating to the topics of infection control in the dental office and OSHA/CDC guidelines. Marie T. Fluent, DDS, practiced general dentistry for 25 years. She is currently an infection control consultant, speaker, and an educational consultant for OSAP, and has written extensively about infection control, OSHA compliance, and antibiotic stewardship in dentistry.
Infection Prevention must be the first priority in dental clinics. In order to meet the challenges of safety, organization, and time management, dental professionals must have a plan and a standardised system for infection control. Hu-Friedy’s Instrument Management System is the most comprehensive, reliable, and complete instrument processing and infection control system on the market today. IMS combines sterilisation, storage and organization of instruments in one integrated system. Hu-Friedy’s IMS system allows you to focus on your patients rather than wasting valuable time looking for the instruments to complete a procedure.

**Working smarter and being organised helps save time, money and reduces stress**

A well-designed Instrument Management System and Sterilisation Area can create an environment that is systematic and efficient. By presenting this new environment, dentists are not only doing the right thing for their patients, they will also help them implement a system that follows Infection Prevention guidelines - making the office more profitable and safer. High-quality Hu-Friedy Infinity cassettes, available in over 100 different size and color option to meet the needs of every practice, are durable, easily identified, easy to handle, and last for many years. In addition, cassettes are considered acceptable containers to transport contaminated instruments safely to the sterilisation area ensuring that the working ends of instruments are not exposed, thereby preventing sharps injuries. Cassettes were specifically designed in 1984 by Hu-Friedy for this purpose, with instruments held securely and sharp tips contained within. Financially speaking, the IMS System is a real winner for every dental practice. The cleaning procedure of instrument sets is reduced by up to ten minutes and the secure instrument storage protects them from breakage, minimizing the need to prematurely replace instruments. With these advantages, Hu-Friedy’s IMS System clearly stands for significant time savings and a longer instrument life.

**Full-service Dental Support: A Cooperative Team Centered Approach to Instrument Processing and Infection Control**

Hu-Friedy is not just a manufacturer of quality dental instruments. Hu-Friedy is a full service company that stands behind the products, and the people who use them. We support our partners with Instrument Management System solutions for clinics, universities, colleges and hospitals, including on site trainings on infection prevention protocols.

Hu-Friedy helps in setting up the Instrument Management System and the Sterilisation Center based on most updated Infection Control guidelines, conducting in-practice sterilisation observations, in order to optimize the flow and safety. Identifying customers’ needs in order to create an efficient sterilisation environment is the first step of Hu-Friedy approach, followed by the evaluation on how Hu-Friedy’s IMS Solution impacts a practice (time saving, reducing expenses, raise productivity and safety).

Once the assessment is complete, Hu-Friedy specialists define the cassettes, instruments, and equipment “Rules of Thumb”: definition of kits by procedure in the practice, color coding organization, protocols and processes from cleaning to chairside. Besides other services such as customization of kits, lasermarking, kitting, tracking solutions and on site infection Control and Instruments Management trainings. Hu-Friedy strives to inspire performance and improve the quality of dental care by educating dental professionals worldwide. Through Professional Education Courses, instructional videos and other educational materials, we provide with necessary skills and tools to keep you performing at your best.

See more about IMS System and Educational material at: www.imsuser.hu-friedy.eu

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**IMS TOTAL HYGIENE SOLUTION**

Hu-Friedy is able to provide you with the IMS Total Hygiene Solution: helping your practice to meet stringent infection control standards with:

- **Standardised procedures:** High quality IMS Cassettes
- **Advanced-formula cleaning and care products:** Enzymax Detergents for ultrasonic cleaning and presoak
- **Maintenance and Care of Instruments:** Instrument Lubricants (ILS) and Shine reNEW to keep your instruments looking new
- **Effective Surface Disinfection:** Innovative SporeClear, effective against spores, viruses, fungi and bacteria; within 1 minute
- **Superior Personal Protection:** Utility Gloves
- **Sterilisation Procedure Control:** Innovative sterilisation wrap, sterilisation pouches, sterilisation container system, sterilisation indicators, cleaning monitors, as well as barcode labels for tracking the entire process

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**How the best perform**

**7 MINUTES**

SAVED FOR EACH PROCEDURE

**= 63 MINUTES**

SAVED EVERY SINGLE DAY**

*based on market survey results.*
Sharpening A sharp instrument secures reliable operations, less fatigue and increases results efficiency at the most comfortable patient conditions.

Repairing Secured by a team of renowned technical experts to deliver timely repairs and reconditioning.

Refurbishing We aim to get your device or instrument back in your hands fast, in as close to ‘as new’ condition as possible.

Polishing Polishing is the collection of high technology driven processes aiming at finishing instruments surfaces to improve their aesthetic quality.

Laser Marking Want your instruments or IMS Cassettes to be labeled with your name or your dental studio brand? We can do that.

Consultancy Tailored consultancy dedicated to your needs, capable of suggesting the best way to operate at the best instruments performance.
Hands are about help, passion and experience. For more than 100 years, our hands take care of what you are handling every day.

Where is it located? And why are you there?

We are in Tuttlingen, Baden Württemberg, the global hub of medical device manufacturing, where technical know-how, passion and expertise has existed for more than 100 years. Due to the Medical and Dental manufacturing established here, the Tuttlingen region has developed the best supporting competencies and methodologies to grant the highest efficiency to the instruments. Being in Tuttlingen for us means having the quickest availability of new technique development, attracting the best talent and granting the most competent craftsmanship available in our Dental industry. As you have to be in the best place possible to learn how the best perform.

What is your Mission and what is a TCC for Hu-Friedy Europe?

The Technical Care Center is a dedicated center where the customer is central in regards of three main drives: Time to Client, which means implementing the best logistic and distribution possible for minimising the wait between placing an order and receiving it at the dental clinic. Client consultancy, which - in coordination with our European Customer Service - grants the widest set of after sales services and competences, Technical maintenance, which ensures that even after a heavy working life, our clients can actually have their instrument refurbished to as near 'brand new' efficiency as possible. We daily implement advancing dental performances through our total caring approach, which means that we personally commit on enabling our Clients to perform at their best, everyday.

Who is working at the Technical Care Center?

We have created the widest span of expertise for our mission, mixing together highly trained instrument makers, experienced craftsmen who manufactured devices throughout their lives and fresh technical talents in the Dental market which secures the best level of competencies and technical know-how. Our employees are our most important asset and we are so proud to meet our Clients with a growing team of long term, passionate and caring professionals driven by experience. Our responsibility is about ensuring that they have the best equipment, materials and technologies available to execute their mission and maximise their skills, which actually means turning their passion on crafting into the most efficient and reliable service execution.

How does your daily work look like?

The best way to understand how we work, would be to look at it from an instrument perspective. The instrument arrives at Hu-Friedy Europe TCC and right after is registered. Then, we check if the Client requests match technical feasibilities and performance criteria according to our PECC (Performance & Excellence Check Criteria), as we commit to shipping back an instrument that looks new. We then carry the instrument to get processed by our specialist for that particular item. We then move the product to a QC area where another team will verify that the job was completed as expected, then we package and ship back to the dental practice.

We easily see and perform it as a 4 step process

(Full Service Process - FSP)

1. Assessment (analysing)
2. Maintenance (repairing and refurbishing)
3. Personalisation (laser marking - optional)
4. Finalisation (sharpening and polishing)

Customise your instruments

Our edging laser technology allows our Technical Care Team to customise your instruments, engraving the name of your office, its logo, or more simply, by procedural kit, making them easily identifiable for you and your team.

Feel free to reach us out for more information:

HFETechService@hu-friedy.com
A Journey through a Century with **Hu-Friedy**

*S火车站，Hu-Friedy has been putting the highest quality and most innovative dental products in the hands of dental professionals worldwide. And today, as one of the world’s leading dental instrument and product companies, we continue our commitment to advance dental performance by supporting these products with world class services, education and peer communities.

We are committed to making sure the best perform that way.

**A Worldwide Focus on Quality**
Hu-Friedy is based in Chicago and has been privately owned by the Saslow family since 1958. Today we employ over 600 talented and committed employees in more than 10 countries – including international offices and distribution centers in Milan, Frankfurt, Shanghai, Tokyo and Tutlingen. 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, where all employees are personally responsible for the quality of their work. 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 craftspeople, management and staff.

**A Legacy of Innovation**
Since being founded in 1908 by Hugo Friedman, we have proudly worked with private practitioners, dental schools and leading educators to develop new technologies, innovative designs and quality products that are synonymous with value and performance.

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**A man, a vision: THE GRACEY EVOLUTION**

Being a natural innovator, our history of engagement with key opinion leaders stretches back 70 years to our first partnership with Dr. Clayton Gracey to develop the landmark, industry-changing Gracey curettes. In the mid 1940s, an innovative dentist from the University of Michigan had a vision. Clayton Gracey wanted to “give every dentist the possibility to treat even the deepest and least accessible periodontal pockets simply and without traumatic stretching of the gingiva.” Dr. Gracey brought his idea to Hugo Friedman, the founder of Hu-Friedy, who supported his concept.

What did Dr. Clayton Gracey hope to do when he approached Hu-Friedy’s founder with an idea for new periodontal instrumentation? Together, Hugo Friedman and Dr. Gracey developed a series of 14 single-ended area-specific instruments for the successful removal of deposits from root surfaces. Today, Gracey curettes are double-ended but the working ends are made to the same specifications as the originals, including the blade and shank designs. Dr. Gracey’s designs laid the groundwork for the new instruments of today. Over the last 65+ years, Gracey curettes have evolved as double-ended instruments with multiple handle choices and a variety of style options for different clinical applications. As the dental industry grew and changed over the years and also the need for specialized instrumentation surfaced like After Five, Mini Five, Micro and Mini Five Gracey Curette to arrive to the latest born the Biogent curette.

**GRACEY COMPARISON CHART**

**After Five Curettes feature** a terminal shank that is 3mm longer than standard Gracey curettes. The longer terminal shank allows better access to deep pockets and areas with recession. The blade is also 80% thinner to allow for less distention when accessing deeper pockets.

**Mini Five Gracey Curettes.**Introduced in 1990, the Mini Five Gracey curettes have the same 3mm longer terminal shank and 10% thinner blade of an After Five Gracey curette, but they also feature a 50% shorter blade. The shorter blade makes the instrument easy to maneuver in deep, narrow pockets, smaller roots, furcations and developmental grooves.

**Micro Mini Five Gracey Curettes.**Designed and engineered by Hu-Friedy in 2008, the Micro Mini Five Gracey curettes are the third alteration to the standard design. With the same terminal shank as the After Five Curette and the same shorter blade as the Mini Five, the uniqueness of the Micro Mini Five is in the thinness of the blade -it is 30% thinner than the Standard (20% thinner than the After and Mini Five Curettes) to help reduce tissue distention and ease gingival insertion. It is available in four popular patterns -the U2, 7/8, 11/12, and 13/14.

**Biogent Curettes.** In 2011 Dr. A. Labriola and Dr. P. Cortellini identified a need for a more tissue-friendly approach. Therefore they designed instruments that are slim enough to provide enhanced pocket access: this is how the basic kit of BioGent curettes was developed. Their blade is shorter and thinner with different angulation between the shank and the working end.

**The Best Perform.**
Because of our reputation for leadership, dental experts have been turning to Hu-Friedy with their cutting-edge ideas for over one hundred years.

In the 1940s, when Dr. Clayton Gracey, the periodontist who first identified gum disease as the cause of tooth loss, wanted to develop effective scaling tools, he came to Hu-Friedy – and the seminal Gracey curette was born. In the 1980s, when Dr. Charles Jerge had a bold idea to standardise dental processes, he too turned to Hu-Friedy. The result was the Instrument Management System (IMS), which revolutionised the way dental practices organise, sterilize, transport and store procedural set-ups, and ultimately won the prestigious Design Engineering Magazine Award for Excellence. Additionally, 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.
EVEREDGE 2.0 STAYS SHARPER EVEN LONGER

EVEREDGE 2.0 uses a new, optimised heat control process in order to maintain the hard, sharp edge. This heat control, plus several manufacturing high technology steps in Hu-Friedy’s proprietary process, provide the durability needed for effective procedures and continued use.

UNCOATED PERFORMANCE

Similar to the original EverEdge technology, our proprietary processing ensures that the superior edge retention and wear characteristics of EVEREDGE 2.0 will last the entire life of the instrument. Since it’s not a superficial coating, these characteristics can’t be sharpened or scraped away. EVEREDGE 2.0 scalers can be resharpened at any point to extend their life.

REVOLUTIONARY TESTING SYSTEM

Hu-Friedy has invested in a custom blade evaluation system to ensure clinicians are receiving the sharpest possible instruments. Blades from every batch of EVEREDGE 2.0 are tested right off the factory line to confirm that the sharpness value remains in our target range, averaging 5 newtons of force required to cut the test material.

NEW FINELY-HONED FINISH

EverEdge scalers are sharp...EVEREDGE 2.0 scalers are even sharper. Using an enhanced finishing process, Hu-Friedy’s professional artisans are creating edges that are scientifically measured to be over 60% sharper than the next closest competitor. Less force means easier, more comfortable scaling for the clinician and patient.

DIAMOND KNURL METAL HANDLE

The same EVEREDGE handle you love! The unique diamond knurl pattern on the large diameter handle provides a confident and comfortable grasp. The #9 EVEREDGE handle was also designed to be the optimal weight for reduced hand fatigue.

EVEREDGE 2.0 HOW IT’S MADE

1. Highest quality raw material is machined into turnings
2. Turnings are inspected and then bent using advanced robotic technology to ensure consistency
3. Another inspection followed by a cutting edge heat treat process, quench and temper to ensure optimal strength, flexibility and performance
4. Surface treatment process including assembly and curing in accordance with Hu-Friedy’s stringent quality protocol
5. CATRA testing to guarantee all points meet our industry leading sharpness testing parameters
IN FOCUS

THE MOST EFFECTIVE CALCULUS REMOVAL

YOUR ROLE IN RECOGNIZING AND HEALING SUPERVISED NEGLECT

Related to Burnished Calculus

Tami Wanless

Supervised Neglect is defined by Mosby’s Dental Dictionary as a case in which a patient is regularly examined and shows signs of a disease or other medical problems, but is not informed of its presence or progress (Mosby’s Dental Dictionary: Edition 2, 2007).

A sound clinician would never intentionally leave calculus, let alone burnished calculus, but what if you learned today that you were leaving deposit contributing to chronic gingival disease? Are you practicing Supervised Neglect? Whether you’re a new graduate or a seasoned professional, here is what you need to know to start making positive changes on your next patient.

What is Burnished Calculus?

When describing calculus attachment to my patients, I like to use the analogy that the calculus attaches to the tooth like a barnacle attaches to a boat. Barnacles actually produce cement that is released through the tips of their antennules to attach themselves (Grunbaum, 2010). Calculus attaches by mechanically interlocking to the crystals of the tooth using the acquired pellicle (Roberts-Harry EA, 2000; 28). Burnished calculus is a subgingival deposit that has had its outermost layer shaved off and not fully removed, so the surface is smooth, but is still attached to the tooth surface contributing to disease (Pattison, 2011). When a clinician does not recognise or removed burnished calculus they are practicing Supervised Neglect. One wouldn’t “plane away” a barnacle off a boat, nor should you “shave away” calculus from a tooth, in either scenario you will leave the source of the irritant.

How does tissue respond to a Burnished Deposit?

These areas of burnished deposit will contribute to persistent gingival inflammation and bleeding in addition to providing a constant food source for more bacteria to attach. This vicious cycle will continue until you completely remove ALL the calculus. We set our patients up for failure when we tell them to brush and floss to reduce recurrent bleeding when we leave burnished deposit subgingivally every six months.

How do you diagnose Burnished Calculus?

Diagnosing frank periodontal disease is easy to identify, detecting Burnished Calculus can be just as easy once you change your approach. The patient who pristinely brushes and flosses regularly but has isolated areas of tissue color change, slight inflammation or bleeding upon probing may be leading you to a burnished calculus area. Despite their dedication they will never heal until you detect the burnished area and remove it. Change the way you examine your patient to determine if burnished deposit is present. Before you pick up a scaler,

1. Prudently view the color and consistency of the gingival tissues, paying close attention to interproximal areas and line angles (where the tooth curves and you need to pivot on your fulcrum while rolling your instrument to adapt). Look for red or blue shades as well as swelling. The bodies first line of defense from any foreign object is to send in the white blood cells to turn tissue angry red and inflamed.

2. Use a generous amount of air and blow towards the cervical tissue at a 45 degree angle and allow the tissue to distort while you look into the sulcus. Many times I have noticed undetected burnished deposit when I’m using the air polishing unit. Try polishing prior to scaling in effort support the newest clinical success while locating burnished calculus at the same time.

3. Pick up your posterior explorer (11/12) and gentle search for irregularities. Lighten up your grasp like your holding a fragile piece of china. Feel for the slightest elevation. You will not feel that “clickable” deposit; burnished calculus will be a smooth raised bump.

It wasn’t me?

Leaving Burnishing calculus is more common than you believe. Research supports evidence demonstrating that blind root planing is only effective to 4mm. Beyond 4mm, 30-50% of the subgingival root surface is still covered with undetectable burnished calculus (Carroll, 2015).

Burnished calculus is more likely to be found in areas on the root surface with developmental grooves, depressions, furcations, and at the cementoenamel junctions.

How do I remove burnished calculus and avoid supervised neglect?

Dull instruments are a significant cause of burnished calculus. If a hand instrument is extremely sharp at the onset of removing the calculus and stays sharp, it will eliminate deposit and not just shave layers away, leaving burnished bumps. When continued scaling with a dull edge occurs, the clinician shaves the deposit and begins to smooth the calculus without removing all of the bacteria.

• Start by using the sharpest instrument available for the maximum success in removing all the calculus from the start. Everedge 2.0 by Hu-Friedy is by far the sharpest instrument on the market. I actually am more effective with deposit removal using EE2.0 than any other instrument – it’s that sharp. Clinically, I am using less strokes and lighter lateral pressure on the lower anterior areas specifically, because they are that strong and sharp. There is less hand fatigue at the end of the day, and I don’t need to sharpen nearly as often. They hold a sharper edge longer. I have never used any other instrument this sharp to compare it to.

• Another principle for effective calculus removal is to ensure that the blade-to-tooth angle is correct. If the terminal shank of the instrument is not parallel to the surface being scaled, then the angulation is either too open (greater than 70°) or too closed (less than 70°). To aid in correct angulation, a visual cue is used to ensure the terminal shank of the instrument is parallel to the surface being scaled.

• An incorrect grasp can cause a lack of enough lateral pressure to ensure that the sharpened blade grabs onto the calculus. Use a modified-grasp, ensuring you have enough space between your thumb and index finger to allow for rolling into the line angle areas. Establish secure solid fulcruims as close to the working area as possible.

Avoid supervised neglect by removing deposit the first time you scale it. Clean up your practice by detecting existing burnished calculus and removing it with sharp instruments. Barnacles on a boat cause drag and slow the vessel down. Burnished calculus contributes to chronic disease and overall inadequate systemic health. Be part of your patients total body health solution and not the cause of chronic disease as they navigate through life’s waters!

References

Modern day industry strives to find increasingly wear-resistant materials to minimise the breakdown of the cutting edge of periodontal instruments. Some companies offer instruments made of alloys that are very hard, however they cannot be sharpened and their working lives are difficult to predict.

For decades now, Hu-Friedy has produced instruments made of increasingly more hardwearing alloys, that require less frequent sharpening and offer greater edge retention. An added value is that the user has full control over the edge and can ensure it is perfectly fit for its intended purpose – removal of tartar or plaque, polishing or detoxification. The wide range available today makes the use of an instrument that can be sharpened the best choice for every clinician providing non-surgical periodontal treatment. Sharpening is quick and simple for operators skilled in handling periodontal instruments, however it can be daunting for some.

That is why, on request, Hu-Friedy can organise specific training on sharpening, in order for users to learn the correct approach, ensure a longer life for their instruments and maintain their performance at the highest level.

In short, the advantages are:
1. Longer life and better durability
2. Less frequent replacement of instruments
3. Greater control during treatment
4. Wider choice of instruments

It is also worth considering that most dental surgeries will have a wide range of instruments and most will benefit from regular maintenance, so it is an essential skill to know how to handle and sharpen them correctly!
IN FOCUS

SHARPENING IS THE BEST WAY TO PROLONG YOUR INSTRUMENT LIFE.
CHOOSING WHICH SHARPENING PRODUCT TO USE CAN BE A SUBJECTIVE DECISION

Here are some key factors to consider

• How often do you sharpen your instruments?
• How often do you use your instruments?
• How difficult are the patients you use your instruments on?

Depending on the level of wear, a different stone or device may be necessary. As the leader in dental instrument sharpening, Hu-Friedy provides solutions for all your sharpening needs.

Let’s go through the many different sharpening options available and when each is appropriate:

Arkansas Stones

As the oldest sharpening stone in dental hygiene, Arkansas stones are classic. Traditionalists love to use these natural stones that are mined in the caves of Arkansas. These stones are a very fine grit and are meant for light honing of instruments, or for hygienists that are very regularly maintaining their instruments that don’t get worn down much. It is recommended that they are lubricated with oil to prevent the metal shavings from becoming embedded in the stone.

Ceramic Stones

Although the Ceramic stones have not been around as long as the Arkansas, they have still been available for decades. These synthetic stones are usually available in fine grit and are ideal for hygienists that routinely sharpen their instruments. The Dual Grit stone is also ceramic and is double-sided with a fine grit on one side and medium grit on the other (for duller instruments that require more abrasiveness). Although no lubrication is necessarily recommended, water is preferred for those that choose to do so.

I-Stones

As the oldest sharpening stone in dental hygiene, Arkansas stones are classic. Traditionalists love to use these natural stones that are mined in the caves of Arkansas. These stones are a very fine grit and are meant for light honing of instruments, or for hygienists that are very regularly maintaining their instruments that don’t get worn down much. It is recommended that they are lubricated with oil to prevent the metal shavings from becoming embedded in the stone.

Like Ceramics, the I-Stones are also synthetic stones. They are very coarse and are usually recommended for the reconditioning of badly worn instruments. It is recommended to follow up the use of an I-Stone with a finer stone to hone the edges of instruments.
Diamond Sharpening Cards

These cards are the latest innovation in Hu-Friedy’s sharpening solutions. These flat, credit-card sized cards are highly durable and resist ditching and grooving. They are available in 3 different grit levels to cover all sharpening needs:
- Extra fine – for lightly honing edges or fine-tuning already sharp instruments.
- Fine – for regular maintenance of instruments.
- Medium – for very dull instruments that require complete reconditioning. It is generally recommended to follow up a Medium card with a Fine or Extra fine to properly hone the edges.

Although they look and feel much different from traditional hand stones, the Diamond Sharpening Cards are used with exactly the same sharpening techniques.

Sidekick Sharpener

For clinicians who prefer to work with an automated and contemporary technology, the Sidekick Sharpener is the most convenient and easy-to-use sharpening device on the market for routine maintenance of scalers and curettes. The Sidekick is cordless, portable, and uses minimal space.

The Sidekick provides a guide plate that has pre-set angles for easy placement of sickles scalers, as well as Gracey and universal curettes, for consistent and accurate angles and edges every time.

It is important to remember that with any sharpening product, correct techniques and routine sharpening are critical in helping extend the instrument’s life and getting the ideal, sharp edge. One stone or device may not be a universal solution for all your instruments. Rest assured, Hu-Friedy has a variety of options for you to choose from and provides solutions for all your sharpening needs.
Our Opinion Leaders
Next Generation Influencers Choose Hu-Friedy

MOHAMMED ALASQAH
MY FAVORITE HU-FRIEDY INSTRUMENT
S7/897
7/8 Gracey Curette

MARCO CLEMENTINI
MY FAVORITE HU-FRIEDY INSTRUMENT
PCPUNC156
University of North Carolina Probe

BENJAMIN CORTASSE
MY FAVORITE HU-FRIEDY INSTRUMENT
TKNIX
Tunnelling instrument, Black Line

MICHAEL EREMEMKO
MY FAVORITE HU-FRIEDY INSTRUMENT
SL1/2MF9
1/2 Langer Curette Mini Five

SERHAT ASLAN
MY FAVORITE HU-FRIEDY INSTRUMENT
NHSSL
Needle holder/Scissor combination

DANIEL THOMA
MY FAVORITE HU-FRIEDY INSTRUMENT
P24GSP6
Periosteal 24G

MICHALIS DIOMATARI
MY FAVORITE HU-FRIEDY INSTRUMENT
RDP
Rubber dam Punch

MAXIM KOPYLOV
MY FAVORITE HU-FRIEDY INSTRUMENT
PPBUSER6
Periosteal Buser

Hu-Friedy - Total Hygiene Solution