H U - F R I E D Y
ORTHO PRODUCT CATALOGUE

How the best perform
With an average of 16 years of experience, Hu-Friedy artisans craft Orthodontic instruments to perfection.

The mission at Hu-Friedy is clear: to dedicate ourselves to outstanding craftsmanship through the pursuit of excellence and attention to fine detail. A century later, Hugo Friedman’s unerring commitment to quality and innovation lives on at Hu-Friedy. As a result, Hu-Friedy instruments are indisputably the most skilfully created precision orthodontic instruments in the world.

Every instrument we create becomes, in essence, a critical extension of each practitioner’s skill. To achieve this, we handcraft each instrument individually, assuring instruments of the highest quality, durability, and performance available to the profession.

Hu-Friedy puts power and precision into the practitioner’s hands. Our instruments are specifically engineered and produced to provide unrivalled clinical outcomes. The ergonomic design offers maximum comfort and safety to both the patient and the practitioner.

As a result, practitioners have more time for patient care and treatment planning, and everyone benefits from a relaxed, comfortable and even pleasant experience.

**THE PURSUIT OF EXCELLENCE**

**PRODUCTION OF SUPERIOR PRECISION**

The process is demanding and complex; as many as 30 different operations may be needed to produce a single Hu-Friedy Orthodontic instrument.

**ORBIT FORMED JOINT PROCESS**

Precision machined components combined with our exclusive orbit forming process create a smooth working hinge without shims, and keep instrument tips in proper alignment. With regular lubrication, joints will work smoothly for years.

**IMMUNITY STEEL®**

Hu-Friedy uses only high quality forged steel with an optimal blend of chromium and carbon combined with exclusive processing to create an instrument that will not corrode under proper use and care.

**SATIN STEEL FINISH**

All Hu-Friedy Orthodontic instruments are 100% solid stainless steel and are hand finished to a satin luster. In addition to corrosion resistance this non-glare surface is easy to clean and will always look great.

**ERGONOMIC DESIGN**

The size, shape, handle length, and weight are optimum for comfort and confidence. Longer handles for larger hands are available in some pliers.

**COMFORT AREAS**

Instruments are designed and finished so that areas that routinely come in contact with soft tissue are smoothed to ensure maximum comfort for your patients.
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678-917 Band & Wire Pusher

BP300S Band Pusher, Short Tip
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FE/LD Filling Explore/Ligature Director
LD1 Tucker Ligature Director, Double-Ended
LDG2 Gingrass Ligature Director, Double-Ended
LDP Ligature Director/Plunger, Double-Ended
LDT Ligature Director Tucker, Double-Ended
PLS683 Filling Explore/Ligature Director
PLPK Plunger/Ligature Picker, Double-Ended
TK01B Lingual Tuning Key
TOKO20S Straight CO2 Wire Applicator
TWLA Placement Instrument Ligature
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ZASTEND Ortho Pliers Stand

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10000 2 Clips for Scissors, Needle Holders, etc.
13000 1 Clip for Ortho Pliers

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40-062 Lilac Gloves, medium, Size 8
40-064 Lilac Gloves, large, Size 9
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IPS IPS Penetration Oil
IMS-1236 Bagette Self-Sealing Sterilisation Pouches (90 x 255 mm)
IMS-1237 Bagette Self-Sealing Sterilisation Pouches (181 x 351 mm)
IMS-1238 Bagette Self-Sealing Sterilisation Pouches (225 x 364 mm)
IMS-1239 Bagette Self-Sealing Sterilisation Pouches (295 x 440 mm)
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IMS-1210MH IMS Sterilisation Autoclave Wrap, 600 x 600 mm, 100 Sheets
IMS-1211M IMS Sterilisation Autoclave Wrap, 375 x 375 mm, 1000 Sheets
IMS-1211MH IMS Sterilisation Autoclave Wrap, 375 x 375 mm, 1000 Sheets
IMS-1222 Enzymax Liquid 40 x 10 ml
IMS-1222SP Enzymax Sample Pack (as IMS-1222), 3x 10 ml
IMS-1224 Enzymax Liquid, 950 ml (Quart) Bottle
IMS-1224P 950 ml (Quart) Bottle Pump
IMS-1226 3.8 l (Gallon) Bottle
IMS-1226P 3.8 l (Gallon) Pump
IMS-1229 Enzymax Spray gel (70 ml, 450 Sprays)
IMS-1230 Enzymax Powder, 800 g
IMS-1230C Enzymax Powder, 6 x 800 g
IMS-1232 Enzymax PK® Box of 32 Powder Packets
IMS-1233 Enzymax PK® Box of 96 Powder Packets
IMS-1243 Monitor Tape Ortho
IMS-1250 Monitor Tape Blank
IMS-1333 Enzymax Earth Powder, Packets 96
IMS-1332 Enzymax Earth PK® Single Use Packets
IMS-1336 Enzymax Earth Liquid, 3.8 l (Gallon) Bottle
IMS-1455 Shine reNEU Instrument Wipes
IMS-1460 Monitor Tape Lead & Latex Free
MCD354160 SporeClean Medical Device Disinfectant Wipes
MCD354161 SporeClean Wipe Refill Pack
MCD354170 SporeClean Liquid Spray, 750 ml bottle
MCD353C01 SporeClean Concentrated Formula, 1 l bottle

* without CE mark

CE 3
LESS IS MORE.

Your day is nonstop as an orthodontist. A steady flow of patients, an overwhelming schedule, plus the pressure to create beautiful, functional smiles for each and every patient. What if you could improve procedural time, enhance patient comfort and have more consistent, reliable outcomes through less instrumentation?

Good news – Hu-Friedy has the solution for you!

Introducing the Hu-Friedy Orthodontic Slim Collection—eight instruments that feature a slimmer working end.

LESS INSTRUMENTATION MEANS:

• More intraoral adaptation
• More intraoral maneuverability
• More patient comfort
• More time savings allowing for more patient education

Crafted with the finest materials and techniques, the Hu-Friedy Orthodontic Collection lasts longer and performs better than any other ortho instruments in the market. With Hu-Friedy Ortho instruments, your best is about to get better for you and for your patients.

DID YOU KNOW?

Unlike most orthodontic instruments on the market, Hu-Friedy Orthodontic instruments are designed to withstand the rigors of steam sterilisation while still maintaining their beauty and functionality, time after time.

678-113
Slim Flush Cut & Hold Distal End Cutter

A true flush cut and hold instrument, this cutter features a 50% reduced working end enhancing visibility and improving efficiency by eliminating the need for a cotton roll or piece of gauze to catch the cut portion.

Wire size: 0.012” to 0.021” x 0.025”

678-500
Slim Micro Cutter

The slender tips on this cutter allow for easier access when removing elastics. The face of the cutter has been “scooped out” and reduced by 13% as compared to our original 678-110 to enhance visibility.

Wire size: 0.008” to 0.012”
ORTHODONTIC SLIM COLLECTION

**678-501**
Ultra Slim Weingart Pliers

As an extension of your hands, the serrated tips allow for better gripping and accessibility into tight spaces that are typically not possible with hands. These pliers help guide the archwire through buccal tubes and into brackets with ease with a 20% reduced working end as compared to our 678-201 model.

Wire size up to .030"

*Buccal view of the Ultra Slim Weingart Pliers guiding archwire into the brackets.*

**678-502**
Slim Hammerhead NiTi Pliers

Reduce a multi-process step process down to one step with these wire-forming pliers. Simply squeeze and you are done; no heat required. With a 10% thinner working end than our 678-327 model, these less intrusive pliers are designed for ultimate patient comfort. For NiTi wire only.

NiTi wire size up to .025"

*Fig.1*

**678-503**
Slim Band Removing Pliers

With a 21% thinner and more tapered working end compared to our original 678-207 model, the Slim Band Removing Pliers allow for easy accessibility helping limit patient discomfort.

*Buccal view of the Slim Band Removing Pliers removing a band.*

*Fig.2*

*Occlusal (Fig.1) and buccal (Fig. 2) views of the Slim Hammerhead NiTi Pliers bending NiTi wire distal to the buccal tube.*
**678-504**
Slim Direct Bond Bracket Tweezers

The 50% thinner working end as compared to our 678-212 give the practitioner a confident and more visible grasp when bringing the bracket to the patient’s mouth. While the thinner back end of the instrument allows for an easy manipulation of the bracket’s position by a simple flip of the instrument, allowing for one versus two instruments to be used in bracket placement and manipulation.

![Facial view of the Slim Direct Bond Bracket Tweezers placing a bracket.](image)

**678-505**
Slim Buccal Tube Bonder Tweezers

The ultra slim working ends of these tweezers are ideal for proper and effective buccal tube bond placement by allowing the practitioner to hold the buccal tubes reversely when the buccal tubes are to be bonded.

![Buccal view of the Slim Buccal Tube Bonder Tweezers placing a buccal tube.](image)

**678-506**
Distal Cinch Back Hand Instrument

Designed to bend up to .021” x .025” stainless steel archwire, the slender working ends helps improve access and enhance visibility in the posterior region. Use this instrument to cinch back posterior stainless steel wire distal to the buccal tube.

![Buccal view of the Distal Cinch Back Hand instrument bending excess wire distal to the buccal tube.](image)
For each individual area of focus, we provide a specifically engineered cutter. To meet these stringent standards, all of our blades are hand-finished to maximize cutting performance for the appropriate wire size.

**678-101**
Universal Cut & Hold Distal End Cutter
When used intraorally it safely holds the cut portion to be discarded. Patient comfort is enhanced by the smooth, tapered tip.
Wire Size: ≤ 0.021x0.025"  

**678-102**
Universal Distal End Flush Cutter, No Hold
Wire Size: ≤ 0.021x0.025"

**678-103**
Hard Wire Cutter 15°
15° offset tip enhances access in difficult areas.
Wire Size: ≤ 0.022x0.028"

**678-104**
Hard Wire Cutter, straight
Wire Size: ≤ 0.022x0.028"

**678-105**
Multi-Use Cutter
Wire Size: ≤ 0.015"

**678-106**
Mini Ligature Cutter
Slim profile is a plus in areas that are difficult to access.
Wire Size: ≤ 0.012"

**678-107**
Micro-Mini Ligature Cutter
Ultra slim profile is a plus in the most difficult to access areas.
Wire Size: ≤ 0.012"

**678-109**
Micro-Mini Ligature Cutter 15°
15° offset tip with ultra slim profile gives reach in most difficult to access areas.
Wire Size: ≤ 0.012"

**678-110**
Micro Cutter 15°
Reduced tip size.
Wire Size: ≤ 0.012"

**678-111**
Flush Cut & Hold Distal End Cutter
Cuts and holds wire distally flush to the buccal tube while reducing debondings.
Wire Size: ≤ 0.020"

* Also available with long handle.

With our diamond-honed cutting edges and orbit-formed joint, you will experience sharp and accurately aligned cutting edges for every procedure, every time.
POWER AND PRECISION IN YOUR HANDS.

Strong, yet lightweight and perfectly balanced, the dimensions of these instruments are perfectly proportioned to fit your grasp with unsurpassed ease. Designed to provide superior control with effortless versatility, Hu-Friedy’s Utility Pliers assure comfort to both you and your patients.

NEW!

678-200
Ultra Slim Weingart Utility Pliers

The very tip of the new 678-200 (Ultra Slim Weingart Utility Pliers) is approximately 45% thinner than the very tip of the 678-202 (Slim Weingart Utility Pliers).

678-201*
Weingart Pliers

Versatile utility pliers with serrations. Tapered and angled at 32° for placement and removal of arch wires. Also available with long handle.

678-202
Slim Weingart Pliers

Versatile utility pliers with serrations.

678-203
How Pliers, Straight

How utility pliers have serrated tips. Useful for placement and removal of archwires, pins and other auxillaries.

678-204
How Pliers Offset

Similar to the straight How pliers, except tips are angled at 40° for accessing lingual and other hard to reach areas.

678-205
Band Seating Pliers

Serrated tips grip brackets to assist in placing bands.

* Also available with long handle.
678-206° Adhesive Removing Pliers
Reversible, replaceable blade is used to remove the bulk of composite material after debonding attachments.
- Replacement pads 678-014A and replacement blade 678-001

678-207° Posterior Band Removing Pliers, Long
The alignment of the tip and occlusal pad is well suited for posterior band removal.
- Replacement pads 678-014 and 678-036

678-208° Posterior Band Removing Pliers, Short
The offset alignment of the tip and occlusal pad is well suited for band removal.
- Replacement pads 678-014 and 678-036

678-210 Force Module Separating Pliers
Used for placement of elastic separators.

678-211 Coon Style Ligature Tying Pliers
Most popular pliers for tying stainless ligature wires.
Wire Size: ≤ 0,015"

678-212 Direct Bond Bracket Holder

678-212M Direct Bond Bracket Holder, small Tip

678-216 Tip Back Pliers
Bends down the distal extension of an arch wire protruding past the buccal tube.
Wire Size: ≤ 0,022x0,025"

678-219 Straight Bracket Removing Pliers
Works well for steel, ceramic and plastic brackets of all types.

678-220L Angled Bracket Removing Pliers, long handle
High angle design for removal of all bracket styles from anterior and posterior teeth.

678-221 Crown & Band Contouring Pliers
Designed for fitting of stainless steel crowns.

678-222 Steiner Pliers
Ideal for tying stainless steel ligature wire.
Wire Size: ≤ 0,015"

678-225 Band Crimping Pliers
Thin tips allow for easy access into molar and bicuspid bands.
WIRE FORMING IS MORE THAN A SKILL, IT IS AN ART.

These instruments perform as natural extensions of your professional artistry. Our impeccably smooth finished tips allow you to bend the wire without risk of damage. Whether you are shaping stainless steel or nickel titanium, Hu-Friedy has a hand-finished, precision instrument to help bring your brilliant workmanship to life.

678-301 Jarabak Pliers
Versatile light wire bending pliers. Grooves assist with precise bending and closing of loops.
Wire Size: ≤ 0.020”

678-302 Three Jaw Pliers, long
Useful for contouring and bending wire.
Wire Size: ≤ 0.030”

678-303 Omega Loop Forming Pliers
Graduated cone is designed to form precise omega loops: .045”, .060” and .075”.
Wire Size: ≤ 0.022x0.023”
° Replacement Tip 678-002 and Replacement screw imbus 678-018

678-304 Bird Beak Pliers
Versatile loop forming pliers for wires.
Wire Size: ≤ 0.030”

678-305 Light Wire Bird Beak Pliers with Groove
A longer cone than a standard bird beak is useful for forming precise loops in light wire. The groove allows for locating and duplicating loops.
Wire Size: ≤ 0.020”

678-306 Tweed Loop Forming Pliers
Loop forming pliers with .045”, .060” and .075” diameters for creating bull and helical loops in wires.
Wire Size: ≤ 0.022x0.023”

678-307 Arch Bending Pliers
Designed for placing first, second and third order bends, 1.27mm blade width.
Wire Size: ≤ 0.022x0.025”

678-307S Slim Tweed Arch Bending Pliers
Designed for placing first, second and third order bends, 0.64 mm blade width.
Wire Size: ≤ 0.022x0.025”

678-308 Rectangular Arch Bending Pliers
Designed for placing first, second and third order bends, 1.78 mm blade width.
Wire Size: ≤ 0.022x0.025”

678-309 Lingual Arch Forming Pliers
Designed to create double back and triple back bends in .030” and .036” lingual arch wires.
Wire Size: ≤ 0.036”

678-310 Hollow Chop Contouring Pliers “de la Rosa”
Perfect for subtle contouring of arch wires.
Wire Size: ≤ 0.030”

678-311 O’Brien Pliers
For precise forming of small helical loops and intraoral tip back bends.
Wire Size: ≤ 0.020”
**678-312**
Mini Three Jaw Pliers
Tips are rounded for ease of contouring light wire.

Wire Size: \(0.030''\)

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**678-315**
General Contouring Pliers
Versatile pliers with serrations. The beaks taper from the hinge to the tip offering a multitude of width options for bending wire.

Wire Size: \(0.022'\times0.025''\)

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**678-317**
Hollow Chop Pliers
“de la Rosa”
Same as 678-310, with reduced radius.

Wire Size: \(0.030''\)

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**678-319**
Nance Loop Forming Pliers
For precise forming of loops in four lengths: 3, 4, 5 and 6 mm. Groove at base aids in closing loops.

Wire Size: \(0.030''\)

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**678-320**
Adams Pliers
Excellent precise right angle bends and appliance application.

Wire Size: \(0.049''\)

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**678-321**
V-Stop Pliers
Places V bend in arch wires, including nickel titanium, to prevent arch wire from travelling.

Wire Size: \(0.022\times0.025''\)

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**678-322**
Three Prong NiTi Pliers
Designed for forming and contouring of all arch wire, especially for NiTi.

Wire Size: \(>0.020''\)

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**678-323**
Optical Looping Pliers
Excellent for forming helical closing loops and arch adjustments.

Wire Size: \(0.022\times0.025''\)

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**678-324**
Marcotte Looping Pliers
For precise forming of helical loops and T loops. No right angles. Prevents stress fracture of wires.

Wire Size: \(0.022\times0.025''\)

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**678-325**
Light Wire Bird Beak Pliers
without Groove
A longer cone than a standard bird beak is useful for forming precise loops in light wire.

Wire Size: \(0.020''\)

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**678-326**
Hollow Chop Pliers
“de la Rosa”
Same as 678-310, with reduced radius.

Wire Size: \(0.030''\)
WIRE FORMING PLIERS

678-324
Old Style Loop Pliers
Provides optimum accuracy and precision in forming and closing loops with one cylindrical three-step beak and one triangular beak.
Wire Size:  ≤ 0.022x0.025”

678-325
Bird Beak with Cutter
Smooth bending surfaces for a range of loop sizes while providing a sharp blade for cutting.
Wire Size:  ≤ 0.022x0.025”

678-326
Long Tapered Bird Beak Pliers
Bends a variety of smooth loops.
Wire Size:  ≤ 0.022x0.025”

678-327
Hammerhead NiTi Tie-Back Pliers
Multi-use NiTi bender, no heat.
Wire Size:  ≤ 0.025”

Bending with Hammerhead in 4 steps

1. The female side of the Hammerhead plier head points downwards.
2. The bend is downwards.
3. The female side of the plier head pointing towards the tooth.
4. The bend towards the tooth.
EXCELLENCE FOR THE INDUSTRY.

Our offer of Orthodontic hand instruments is available in a variety of ergonomic handle sizes to accommodate your personal preference. Finely tuned to achieve accurate weight balance and tip alignment, Hu-Friedy produces only the highest calibre tips and handles, in the manner of precision and excellence that outstanding professionals demand.

HANDLE OPTIONS

Double-Ended
- #2 Octagonal
- #4 Round
- #41 Round
- #6 Satin Steel

Single-Ended
- #1 Octagonal
- #6 Satin Steel
- #7 Satin Steel Colours

- 678-903 AOT Bracket Ligature handle #6
- 678-904 Schure Scaler handle #6
- 678-905 Ligature Scaler handle #6
- 678-906 Band Pusher/Scaler dull handle #6
- 678-907 Medium Plugger/Ligature handle #6
- 678-908 Ligature Director/Band Pusher handle #6
- 678-909 Large Plugger/Ligature handle #6
- 678-910 Ortho Scaler Jacquette, dull handle #6
- 678-911 Ortho Scaler Sickle, dull handle #6
HAND INSTRUMENTS

678-912
Ligature Director/Band Pusher
handle #6

678-913
Ortho Scaler Towner
handle #6

678-916
Picker/Wide Ligature Director
handle #6

LDP
Ligature Director Plugger
double-ended, handle #2

PI5683
Fillion Explorer/Ligature Director
double-ended, handle #6

FE/LD
Fillion Explorer/Ligature Director
handle #41
Ideal for placing and removing elastic ligatures with lingual brackets.

BP300S
Band Pusher Short Tip, handle #506
Helps in placement and burnishing of band.

BP300
Band & Wire Pusher handle #502

TK020S
Straight 020 Wire Applicator
handle #7

LD1
Tucker Ligature Director
double-ended, handle #2

LDG2
Gingrass Ligature Director
double-ended, handle #2

BPS1
Band Pusher Scaler
double-ended, handle #41
Versatile instrument for band placement and clean up of band cement.

BPS2
Band Pusher Scaler
small tip, double-ended, handle #41

LDT
Ligature Director Tucker
double-ended, handle #41

TWLA
Gingrass Ligature Director
double-ended, handle #2

TK018
Lingual Torquing Key
handle #6
Designed for proper wire placement and improved torque expression in an .018” slot lingual system.

WB1-M/R
Single-Ended Ligature Director
Wire Bending, handle #1

PLPK
Plugger/Ligature Picker
double-ended, handle #41
ACCESSORIES, MATHIEUS, SCISSORS & HAEMOSTATS

MATHIEU-KOCHER

678-330 Ortho Mathieu Needle Holder for elastic ligatures. Slimmer tip makes this ideal for gripping and placing elastic auxiliaries.

678-331 Ortho Mathieu Needle Holder wide tip pliers With wider, stronger tips.

678-332 Ortho Mathieu Needle Holder Perma Sharp Thin tips, with tungsten carbide inserts.

NH5074 Mathieu-Kocher Needle Holder With tungsten carbide inserts.

NH5074E Mathieu-Kocher Needle Holder Inner Clamp, with tungsten carbide inserts.

SCGC Crown & Gold Scissors curved

SCGS Crown & Gold Scissors straight

WCS Wire Cutting Scissors Serrated blade; notch for soft wire-cutting.

H4 Hemostat Halsted-Mosquito straight

H3 curved (without picture)

678-001 1 Replacement blade for pliers 678-206

678-002 1 Replacement Tip for pliers 678-303

678-011 3 Replacement silicone pads for cutter 678-111

678-013 3 Replacement Silicone Pads for cutter 678-113

678-014 6 Replacement plastic pads for pliers 678-207 + 678-208, Ø 6 mm

678-014A 6 Replacement plastic pads for pliers 678-206

678-018 1 Replacement screw imbus per pliers 678-206 + 678-303

678-036 6 Replacement plastic pads for pliers 678-207 + 678-208, Ø 5 mm

ZASTAEND Ortho Pliers Stand
Hu-Friedy’s Instrument Management System (IMS) is the most comprehensive, reliable and complete instrument processing and infection control system on the market today. IMS combines sterilisation, storage and organisation of instruments in one integrated system. For optimal staff and patient safety, an efficient practice and a longer life for your instruments.

It is fast, flexible, easy and efficient.

**HU-FRIEDY CASSETTE FEATURES**

- **Electropolish:**
  Long lasting electropolished stainless steel provides protection against corrosion and a professional appearance

- **Efficient Hole Pattern:**
  Efficient hole pattern protects instruments from protrusion while allowing for enhanced cleaning and sterilisation

- **Smooth Round Corners:**
  Smooth round corners and slotted edges increase drainage and reduce drying time

- **Durable Silicone Rails:**
  Durable silicone rails and patented compression arms are specifically designed to safeguard instruments from damage during processing

- **Positive Locking Mechanism:**
  Positive locking mechanism provides a visual indication that cassette is locked for safety
PROFESSIONAL HYGIENE APPLIED IN PRACTICE.

This established and well thought-out system, which gives you considerable benefits, is a must for every modern practice. It is the ideal solution for arranging your instruments in an organised manner, cleaning and disinfecting simply and safely, storing without problems and sterilising.

1. CHAIRSIDE

In the presence of the patient the seals are removed from the cassettes and attention is given to explain the function of the Process Indicator Label (class 1 according to ISO 11140-1). This label demonstrates, by means of a colour change, that the sterilisation process of the IMS Cassette has been completed.

2. PRE-TREAT

Immediately after each procedure, use an enzymatic gel that dissolves proteins, tissue and debris while keeping your instruments moist. This pre-cleaning step will facilitate the cleaning procedure and will help extend the utility life of your instruments.

3. CLEANING

Cleaning and disinfection takes place in either a washer-disinfector or ultrasonic bath, whichever is used, by following the manufacturer’s operating instructions. After cleaning and disinfection the instruments are visually inspected, and if required, the inspection and results are documented.

Hu-Friedy ortho pliers and instruments can be cleaned and disinfected in the thermo-disinfector. Should this take place with instruments and ortho pliers of other manufacturers, it must be assured that these instruments are also approved for cleaning in a thermo-disinfector. Instruments which are not approved may corrode and transfer corrosion on to Hu-Friedy instruments (transferred rust).

4. LUBRICATION

After inspection the instrument set must be maintained (hinged instruments lubricated with ILS spray – sharpened – or replaced if worn or damaged). The instruments and IMS cassette have to be completely dry before wrapping for sterilisation.

5. STERILISATION

The IMS cassettes are wrapped in IMS-wrap and steam sterilised. Hu-Friedy offers various packaging systems; IMS Sterilisation wrap, Bagettes, or, best of all, sterilisation containers. All 3 types of packaging allow storage, following recommended storage conditions, until the next procedure. All 3 types of packaging allow for labelling to identify the content. Cassettes can be wrapped for sterilisation and can then be stored sterile.

6. STORAGE

Before storing, the IMS cassettes are inspected following the steam steriliser manufacturer’s instructions as well as by a visual check (intact seal, undamaged wrap, Process Label colour change).

After inspecting, and documenting if required, the IMS cassettes can be stored, in accordance with recommended storage conditions, for the next use. The colour change on the Process Label ensures that sterilised IMS cassettes cannot be mixed with unsterile cassettes.

The Hu-Friedy Instrument Management System provides you with a certain and traceable hygiene cycle.

The Wrapping technique

Please visit www.hu-friedy.eu

› Service

› Reprocessing of instruments

Pay attention to the following document: HF-GB-17664 (Reprocessing of Hu-Friedy® Dental Hand Instruments and Accessories)

or order toll free 00800 48 37 43 39
IMS ORTHODONTIC CASSETTES

Use IMS cassettes to hold instruments and accessories in place throughout the entire Instrument Management Cycle. Once a chair side procedure is finished, contaminated instruments never need to be touched again.

Double-Decker Large Orthodontic Cassette
Holds up to 6 pliers, a Mathieu needle holder and 3 hand instruments.
(152mm x 203mm x 38mm)

IM5200-OR Red
IM5201-OR Grey
IM5202-OR White
IM5205-OR Yellow
IM5206-OR Pink
IM5208-OR Blue
IM5209-OR Green

Large Orthodontic Cassette
Holds up to 6 pliers, a Mathieu needle holder and 3 hand instruments.
(152mm x 246mm x 38mm)

IM9200-OR Red
IM9203-OR Orange
IM9205-OR Yellow
IM9206-OR Pink
IM9208-OR Blue
IM9209-OR Green

Ortho DIN Cassette for 6 Pliers and Instruments
(190 x 184 x 34 mm)

IMDINORTH0 Red
IMDINORTH1 Grey
IMDINORTH2 White
IMDINORTH3 Orange
IMDINORTH5 Yellow
IMDINORTH6 Pink
IMDINORTH8 Blue
IMDINORTH9 Green

Two-Tier Small Orthodontic Cassette
Holds up to 4 pliers, a Mathieu needle holder and 2 hand instruments.
(114mm x 203mm x 38mm)

IM9140-OR Red
IM9142-OR White
IM9143-OR Orange
IM9145-OR Yellow
IM9146-OR Pink
IM9148-OR Blue
IM9149-OR Green

I1000 Two Clips for Scissors, Needle Holders etc.

13000 One Clip for Ortho Pliers
ENZYMAX® ULTRASONIC DETERGENT

Specifically formulated for efficient ultrasonic cleaning or pre-soaking of cassettes and instruments. Contains Steelgard™ agents to protect instruments from harmful minerals naturally found in water that contribute to buildup, spotting and corrosion. Also may be used as an evacuation system cleaner.

ENZYMAX EARTH™ DETERGENT

Enzymax Earth offers the same superior cleaning attributes as Enzymax, plus an increased awareness of our environment. While all Enzymax products are biodegradable and phosphate free, Hu-Friedy's line of green detergents, Enzymax Earth, presents less bioaccumulation potential and contains enzyme stabilisers that are safer for the environment.

IMS CLEANING & CARE PRODUCTS

CLEANING OF INSTRUMENTS

Enzymax Spray Gel

**IMS-1229**
709ml (up to 450 sprays)

Dual enzyme gel with corrosion inhibitor acts as a ready-to-use instrument pre-cleaner. Maintains moisture to help prevent debris from drying on instruments before cleaning and helps dissolve blood, tissue, and other debris. Can also be used as a linen spot remover.

Enzymax Powder

**IMS-1230**
1.76LB / 800g Powder
Makes 50 Gallons/189 Liters

**IMS-1230C**
Case of six 800 gram containers
Makes 300 Gallons/134 Liters

A lighter-weight concentrated powder allows Enzymax to be cost effective while saving valuable storage space.

Enzymax Pax® Single Use Packets

**IMS-1232**
32 Dissolvable Single-Use Powder Packets
Makes 32 Liters

**IMS-1233**
96 Dissolvable Single-Use Powder Packets
Makes 96 Gallons/363 Liters

The ultimate in convenience! No measuring or scooping needed, just use one packet per gallon of warm water.

Enzymax Earth

**IMS-1336**
Gallon Bottle
Makes 128 Gallons/485 Liters

**IMS-1332**
32 Dissolvable Single-Use Powder Packets
Makes 32 Gallons/121 Liters

**IMS-1333**
96 Dissolvable Single-Use Powder Packets
Makes 96 Gallons/363 Liters

NEW EARTH-FRIENDLY OPTION – ENZYMAX EARTH™

Enzymax Earth is safer with a mild pH, no VOCs which can pollute the indoor air and does not contain harsh chemicals such as alcohol or ammonia. The dual enzymes break down proteins and starches to help ensure clean instruments and reduce the need for hand scrubbing - thus saving time and money for your practice. The best way to clean your instruments, JUST GOT BETTER (AND GREENER)
Ims-1236
89 mm x 254 mm
200 pouches – Loose instrument pouch.
Fits 3-6 hand instruments

Ims-1237
181 mm x 351 mm
100 pouches – For Exam 5-instrument cassettes

Ims-1238
225 mm x 364 mm
100 pouches – For Small 8-10 instrument cassettes

Ims-1239
295 mm x 440 mm
100 pouches – For Large 16-20 instrument cassettes

**IMS Autoclave Wrap**
With improved technology, this wrap has less memory effect combined with a softer feel and stronger textile design.

**IMS-1210M** 600 x 600 mm
for DIN and SIGNASTAT Cassettes (500 sheets)

**IMS-1210MH** 600 x 600 mm
for DIN and SIGNASTAT Cassettes (100 sheets)

**IMS-1211M** 375 x 375 mm
for 1/4 DIN cassettes (1000 sheets)

**IMS-1211MH** 375 x 375 mm
for 1/4 DIN cassettes (100 sheets)

**IMS-1212M** 500 x 500 mm
for 1/2 DIN cassettes (500 sheets)

**IMS-1212MH** 500 x 500 mm
for 1/2 DIN cassettes (100 sheets)

**IMS-1243** Ortho
**IMS-1250** White

**IMS-1460**
Lead & Latex Free (White)
- Safe for the environment
- Safe for your staff and patients
- Easy to use and read results
- No special hazardous disposal required
- For steam autoclaves

**IMS-1455**
IMS Shine reNEW™ Instrument Wipes
1 canister contains 20 wipes
- Effectively clean, polish and protect instruments
- Eliminates the need for abrasive scrubs
- Restore luster to instruments and metals
- Keep hinged instruments moving freely by dissolving built-up residue
- Quick and simple to use, any office member can use the wipes
- To use only on stainless steel, brass, copper and anodized aluminum

**IMS-1460**
IMS Shine reNEW™ Instrument Wipes. A quick and simple solution to restoring dental instruments and metals.
Shine reNEW Instrument Wipes effectively remove stain and rust, restoring the luster to stainless steel, brass, copper and anodized aluminum.

**Bagette Self-Sealing Sterilisation Pouches**
are constructed with durable materials and thick seals. The unique design optimises the cassette fit, reducing bulky storage while simplifying packaging time. Built-in external and internal quality control indicators relay accurate time and temperature verification, allowing you peace of mind. Suitable for DIN cassettes.

**IMS-1236**
89 mm x 254 mm
200 pouches – Loose instrument pouch.
Fits 3-6 hand instruments

**IMS-1237**
181 mm x 351 mm
100 pouches – For Exam 5-instrument cassettes

**IMS-1238**
225 mm x 364 mm
100 pouches – For Small 8-10 instrument cassettes

**IMS-1239**
295 mm x 440 mm
100 pouches – For Large 16-20 instrument cassettes

**Autoclave Monitor Tape**
This strong 19 mm tape can be written on and visually differentiates processed from non-processed cassettes. Pre-printed tape is available with specific procedural set-ups, color-coded or blank. 55m per roll.

**IMS-1460**
Lead & Latex Free (White)
- Safe for the environment
- Safe for your staff and patients
- Easy to use and read results
- No special hazardous disposal required
- For steam autoclaves

**IMS-1455**
IMS Shine reNEW™ Instrument Wipes
IMS Shine reNEW™ Instrument Wipes. A quick and simple solution to restoring dental instruments and metals.
Shine reNEW Instrument Wipes effectively remove stain and rust, restoring the luster to stainless steel, brass, copper and anodized aluminum.
**SPORECLEAR™**

Medical Device Disinfectants

Our new disinfectants are non-alcohol based, free of aldehydes, chlorine, phenols, peroxide and nonylphenol ethoxylates, making them compatible with all washable surfaces and eco-friendly.

**Fast solutions for effective disinfection within 1 minute.**
- Sporicidal • Tuberculocidal • Bactericidal • Virucidal • Fungicidal
- Unique patented formulation eliminates spores, viruses, bacteria and fungi (including C. Difficile, Hepatitis B/C, HIV, HINI, MRSA, TB and NDM-1) within 1 minute

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**Hu-Friedy’s Lilac Gloves**

Effective safety without blowing the budget. When you supply Hu-Friedy Lilac gloves to your workers in the sterile area and during disinfection you are keeping them safe.

Your staff will no longer risk their health by not bothering to wear ill-fitting, awkward gloves. They will like wearing these gloves because the non-slip textile lining on the inside increases touch sensitivity and furthermore they will be protected against instrument perforation, penetration and cut wounds.

Ideal for working with chemicals, long-life, can be autoclaved up to 121°C.

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**MSCD354160**
Medical Device Disinfectant Wipes
160 wipe canister

**MSCD354161**
160 wipe refill pack

**MSCD356750**
Liquid Spray
750 ml bottle with trigger spray

**MSCW35C01**
Concentrated Formula
1L bottle (1L concentrate makes 12.5L of Solution)
HINGED INSTRUMENTS

All hinged instruments—forceps, rongeurs, scissors, pliers, haemostats, orthodontic pliers, etc.—should be kept lubricated. Regular use of proper lubricants, like Hu-Friedy® Penetrating Oil (IPS) and Instrument Lubricant Spray (ILS), will prevent rust, corrosion and stiff joints and will ensure smooth operation. (Household lubricants and handpiece lubricants are NOT recommended.)

INSTRUMENT CLEANING

All instruments need to be cleaned before they are sterilised. They should be washed with a non-corrosive, low sudsing neutral detergent. Instrument cleaning can be accomplished by thermo-disinfector or ultrasonic cleaning, which is the method of choice to prevent hand injuries caused by hand scrubbing.

INSTRUMENT STERILISATION

Sterilisation is a process that kills microorganisms. There are three common methods of heat sterilisation, the most common being steam sterilisation. Sterilise hinged instruments in the open position. For a comparison of heat sterilisation methods, visit our website at www.hu-friedy.eu.

SHARPENING

Sharpen cutters regularly. How often depends on such factors as the frequency of use, types of applications the cutter is being used in, etc. Routinely inspect cutters to determine if sharpening is required. Sharp instruments cut more efficiently and regular sharpening will enhance the life of your cutter.

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**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPOTTING</td>
<td>• Insufficient rinsing after ultrasonic cleaning</td>
<td>• Rinse thoroughly under steady stream of water for 30 seconds</td>
</tr>
<tr>
<td></td>
<td>• Insufficient drying after ultrasonic cleaning</td>
<td>• Rinse with hot water</td>
</tr>
<tr>
<td></td>
<td>• Not changing ultrasonic solution</td>
<td>• Solution should be changed at least once a day</td>
</tr>
<tr>
<td></td>
<td>• Insufficient rinsing in thermo-disinfector, instruments too close, too much, etc.</td>
<td>• Rinse thoroughly under steady stream of water for 30 seconds</td>
</tr>
<tr>
<td></td>
<td>• Insufficient drying in or after thermo-disinfector</td>
<td>• Rinse with hot water</td>
</tr>
<tr>
<td></td>
<td>• Not enough detergent or neutraliser in thermo-disinfector</td>
<td>• Check indicator light on thermo-disinfector and or containers of detergent and neutralisation</td>
</tr>
<tr>
<td></td>
<td>• Wrong materials in thermo-disinfector</td>
<td>• For e.g. aluminium please read instructions of thermo-disinfector, only stainless burs, etc.</td>
</tr>
<tr>
<td></td>
<td>• Steriliser has not been cleaned</td>
<td>• Sterilisers should be cleaned weekly</td>
</tr>
<tr>
<td></td>
<td>• Corrosion from carbon steel instruments or rusty stainless steel instruments spreads to other stainless steel instruments. Solution as suggested by steriliser manufacturer</td>
<td>• Separate stainless and carbon instruments</td>
</tr>
<tr>
<td>RUST</td>
<td>• Chemical attack on instruments</td>
<td>• Rinse and dry instruments thoroughly</td>
</tr>
<tr>
<td></td>
<td>• Use approved cleaning, sterilisation solutions only</td>
<td>• Never use household bleach or stain and tartar remover</td>
</tr>
</tbody>
</table>
**WARRANTY**

Hu-Friedy Orthodontic instruments carry a lifetime warranty against material defects and craftsmanship. Like all Orthodontic companies, "lifetime" references the life of the product.

**We guarantee your cutters for seven years and your benders and utility pliers for ten years.** This covers breakage, joint failure and corrosion under normal use. Proper cleaning and maintenance is required. Failure to properly care for instruments, including cleaning and lubrication may void this warranty.

Hu-Friedy reserves the right to decide whether an instrument is to be repaired or replaced. Sharpening cutters after one year of purchase and repairing minor tip damage is considered routine maintenance with normal use, and is not covered by warranty.

**DO’S & DON’TS OF PROCESSING INSTRUMENTS**

For best results, Hu-Friedy recommends the use of thermo-disinfectors or ultrasonics for instrument cleaning and steam autoclaves for sterilisation. Never use stain or tartar remover on instruments. Never spray surface disinfectant near instruments. Use only approved lubricant (Never use WD-40 or Handpiece lube).

**STAINLESS STEEL INSTRUMENTS**

While stainless steel has superior corrosion resistance, it will discolor and corrode when exposed to higher than recommended chemical concentrations or certain chemicals.

**Stainless steel should not be exposed to the following chemicals:** Sodium Hypochlorite (household bleach), Tartaric Acid (tartar remover), Aluminium Chloride, Barium Chloride, Bichloride of Mercury, Calcium Chloride, Carbolic Acid, Chlorinated Lime, Citric Acid, Dakin’s Solution, Ferrous Chloride, Lysol, Mercuric Chloride, Mercury Salts, Phenol, Potassium Permanganate, Potassium Thiocyanate or Stannous Chloride.

**The following chemicals should NEVER be used with stainless steel:** Aqua Regia, Ferric Chloride, Sulphuric Acid, Hydrochloric Acid or Iodine.

**ONE-YEAR FREE SHARPENING**

Within the first year of purchase Hu-Friedy Europe offers free sharpening for cutters. Our customers can make use of this service by sending a proof of purchase.