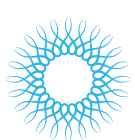


## ENDURING PERFORMANCE BEAUTIFULLY CRAFTED

ORTHODONTIC PRODUCT CATALOG

How the best perform





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

**Hu-Friedy. How the best perform.**

**A Worldwide Focus on Quality**

Hu-Friedy is based in Chicago and has been privately managed by the Saslow family since 1959. Today we employ over 700 talented and committed employees in more than 11 countries – including our production facilities in Chicago and Shanghai, China; our distribution centers in Des Plaines, Illinois, and Tuttlingen, Germany; and our additional offices in India, Japan, Germany, and Italy. Worldwide, our products are sold in more than 95 countries.

Our mandate for excellence is company-wide. Only at Hu-Friedy will you find more than 300

artisans meticulously handcrafting instruments in a modern manufacturing facility. Only here are employees personally responsible for the quality of their work and each other's. We believe that our success is the result of both our company's commitment to excellence and the dedication and pride of our highly skilled instrument craftspeople, management and staff.

**A Legacy of Innovation**

Since the Hu-Friedy Manufacturing Company was founded in 1908 by Hugo Friedman, we have proudly collaborated with private practitioners, dental schools and leading educators to develop

new technologies, innovative designs and quality products that are synonymous with value and performance. Because of our reputation for industry leadership, dental experts have been turning to Hu-Friedy with their cutting-edge ideas for over a hundred years.

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

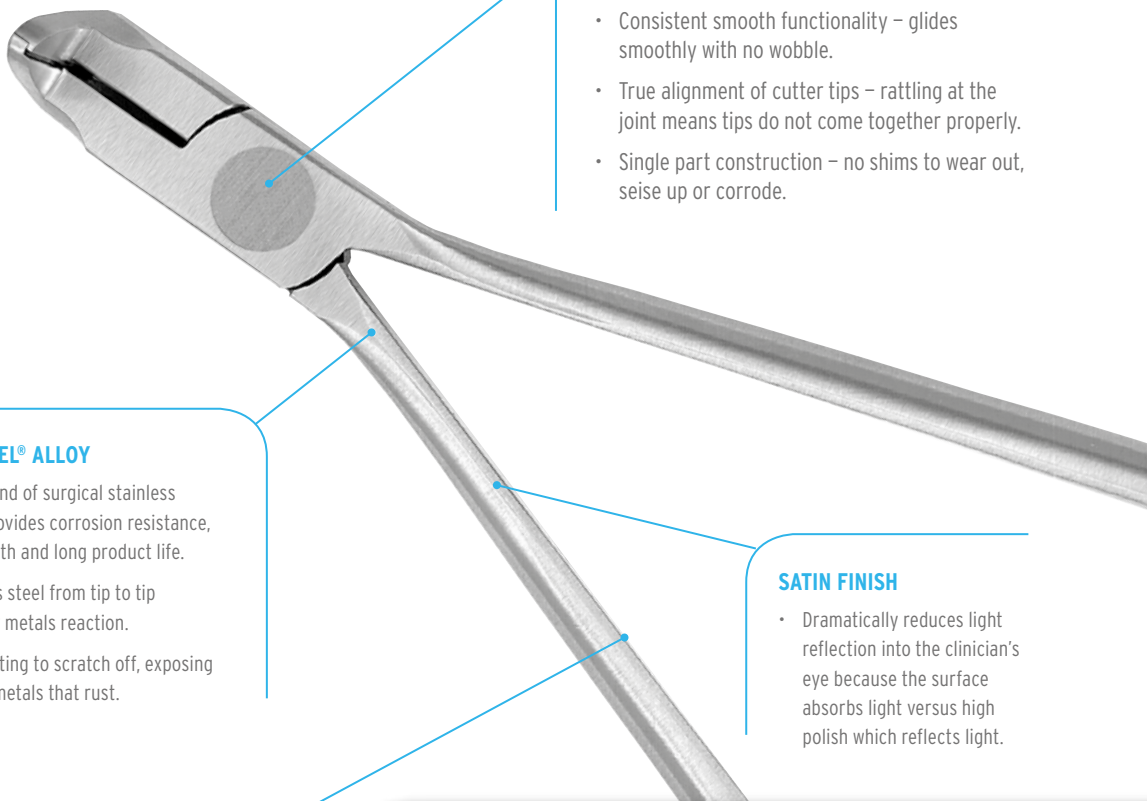
How the best perform



**THE PURSUIT OF EXCELLENCE**

At Hu-Friedy, the mission is clear: we dedicate ourselves to outstanding craftsmanship through the pursuit of excellence and attention to fine detail. Over 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 skillfully 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.



**ORBIT JOINT**

- Consistent smooth functionality – glides smoothly with no wobble.
- True alignment of cutter tips – rattling at the joint means tips do not come together properly.
- Single part construction – no shims to wear out, seize up or corrode.

**IMMUNITY STEEL® ALLOY**

- A premium blend of surgical stainless steel which provides corrosion resistance, optimal strength and long product life.
- 100% stainless steel from tip to tip – no dissimilar metals reaction.
- No chrome plating to scratch off, exposing lower quality metals that rust.

**SATIN FINISH**

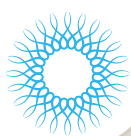
- Dramatically reduces light reflection into the clinician's eye because the surface absorbs light versus high polish which reflects light.

**LASER ENGRAVING OF APPLICABLE WIRE SIZES**

- All Hu-Friedy Ortho cutters and pliers are laser engraved with the applicable wire minimums and maximums.

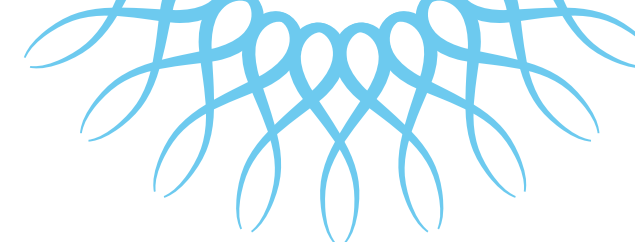
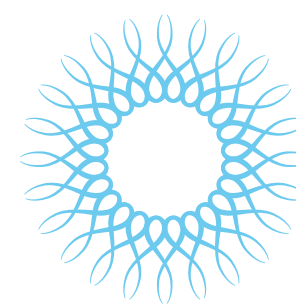
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## CLEAR COLLECTION FOR CLEAR ALIGNERS

Hu-Friedy's Clear Collection consists of innovative instruments designed to accent, individualise and optimise the biomechanics of the "invisible" aligner experience with no heat required.



### The Tear Drop

**678-800**

An instrument created to add a notch at the gingival margin of clear aligners anywhere elastic hooks are required within the arch. The Tear Drop provides a reservoir to hold the elastics in place as the aligner is seated. This permits easier manipulation of elastics by the patient.



The Tear Drop is positioned at an angle to the force that will be applied to the clear aligner by the elastics and the depth of the reservoir cut can be adjusted to need.



The Tear Drop elastic hook can be used to hook-up elastics of all types from Class II, Class III, Delta, Class I intraarch, for connection to TADS, and to produce extrusive forces for specific teeth.

### The Vertical

**678-801**

The Vertical emphasises over-correction of rotations by producing an indentation at the mesial or distal line angles on the facial and/or lingual of a specific tooth. A rotational couple can also be created using vertical indents on facial and lingual surfaces on opposing sides of a tooth. The Vertical can also enhance resolution of in-and-out discrepancies.



Impress an indentation with The Vertical along the mesial or distal line angle of a tooth to enhance rotational control.



### The Horizontal

**678-802**

The Horizontal instrument produces an indentation to accent individual root torque. It also serves a second purpose by enhancing retention of either clear aligners or retainers by placing an indent into a tooth's undercut or below a bonded attachment.



Accent individual root torque by producing an indent at the gingival margin on either the buccal or lingual for any tooth in the arch form.



Increase clear aligner or retainer retentiveness by producing a horizontal indent into the undercut of specific teeth or just under an attachment.

### The Hole Punch

**678-803**

The Hole Punch is used to create half-moon cutouts for relief of clear aligners around bonded buttons used for elastics. No need to attempt to attach buttons to plastic trays. In addition, the Hole Punch can nip away plastic to provide soft tissue clearance to prevent aligner impingement of tissue.



The Hole Punch is positioned at the gingival margin with one-half of the "circle" of the punch over the plastic of the aligner.



The half moon cutout can be placed on any tooth where bonded buttons or brackets are added for elastics or other biomechanics.

## Clear Collection Improved design.

Slimmer profile for improved access into clear aligners.

Available only for:

**678-801, 678-802 and 678-803**

### DID YOU KNOW?

All hinged instruments – forceps, rongeurs, scissors, pliers, hemostats, 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 to ensure smooth operation. All hinged instruments should be sterilised in the open position. See also page 36 - IMS section







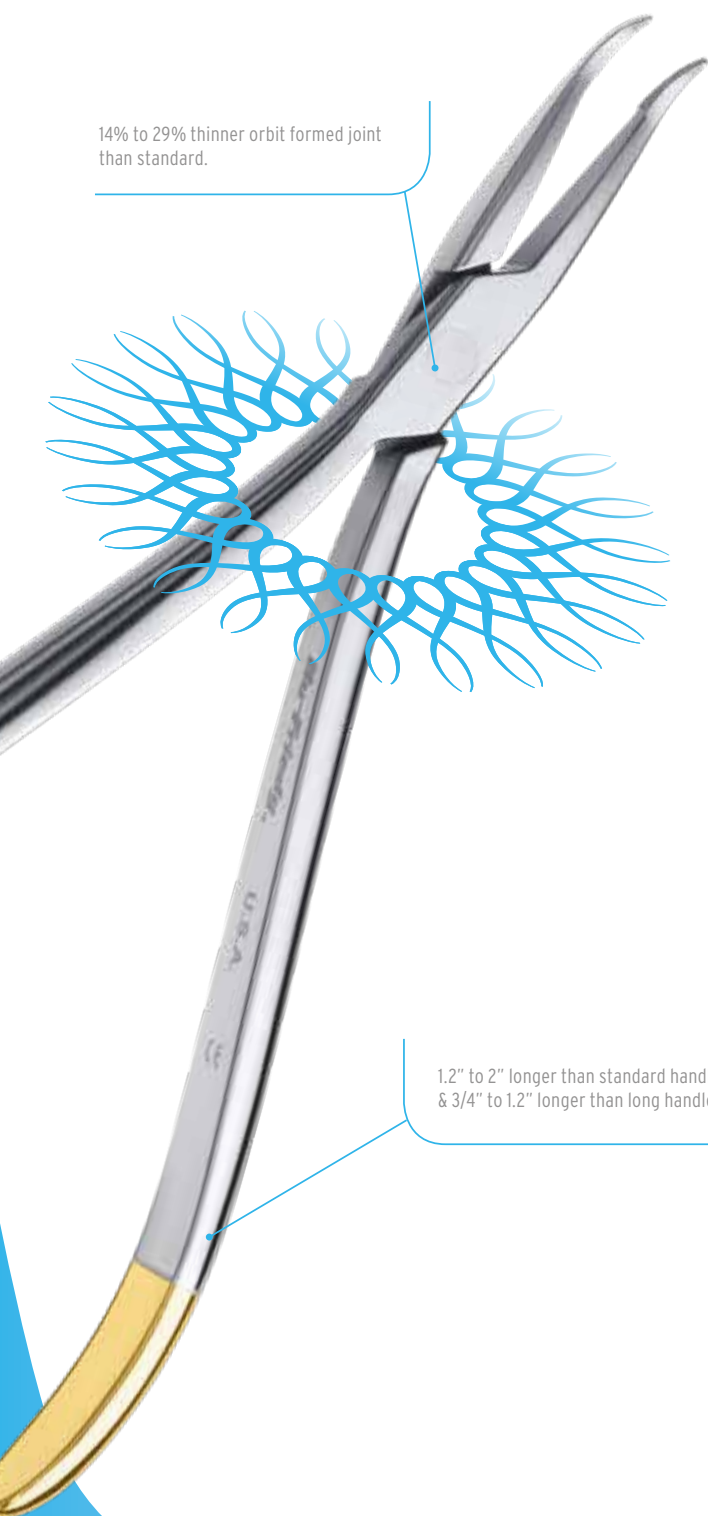
# ORTHO LINGUAL COLLECTION

The Ortho Lingual Collection consists of more than ten instruments that feature:

- Optimal intraoral access
- Ideal visibility for clinician.
- Enhanced comfort for patient.
- More time savings allowing for additional patient education.

Every ortho instrument from Hu-Friedy is created using the highest quality materials, processes and quality assurance.

14% to 29% thinner orbit formed joint than standard.



1.2" to 2" longer than standard handle & 3/4" to 1.2" longer than long handle.



**Lingual Distal End Cut & Hold**  
**678-700**  
Wire size: .012" to .018"



Occlusal view of the Lingual Distal End Cutter cutting the excess archwire distal to the buccal tube.



**Lingual Pin & Ligature Cutter**  
**678-701**  
Wire size: < = .012"



Occlusal view of the Lingual Pin & Lig Cutter cutting the excess steel ligature.



**Lingual Weingart Pliers**  
**678-702**  
Wire size: < = .030"



Occlusal view of the Lingual Weingart Pliers guiding the archwire into the bracket slot.



**Lingual Weingart Pliers, 90° Bend**  
**678-702-90**  
Wire size: < = .030"



**Lingual Bracket Removing Pliers**  
**678-703**



Lingual view of the Lingual Bracket Removing Pliers debonding the bracket.



**Lingual Mathieu Pliers**  
**678-705**  
Wire size: < = .015" (.38 mm )



Occlusal view of the Lingual Mathieu Pliers tying steel ligature to hold the arch wire into bracket slot.



**Lingual Hammerhead NiTi Pliers**  
**678-704**  
Wire size: < = .025" (.64 mm )



Occlusal view of the Lingual Hammerhead NiTi Pliers bending NiTi wire distal to the buccal tube.



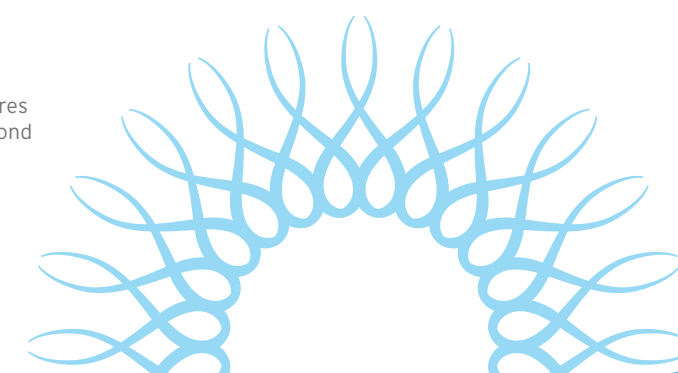
**Lingual Hammerhead NiTi Pliers with Serrations**  
**678-704SER**  
Wire size: < = .025" (.64 mm)



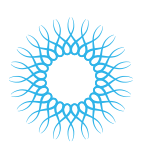
**Lingual Arch Forming Pliers**  
**678-309**  
Wire size: < = .036" (.91 mm)  
Designed to create double back and triple back bends in .030" and .036" lingual arch wires.



**Lingual Debonding Pliers**  
**678-709**  
Unique design allows for quick debonding, spring action requires minimal force to smoothly debond lingual brackets.







Lingual  
Ligature  
Director  
**678-706**  
Wire size:  
< = .021" x .025"  
(.53 x .64 mm)



Lingual  
Ligature  
Director,  
U Shape  
**678-707**  
Wire size:  
< = .021" x .025"  
(.53 x .64 mm)



Lingual  
Torquing  
Key with  
Picker  
**678-708**  
Slot size .018"  
(.46 mm)



## CUTTERS

With our diamond-honed cutting edges and orbit-formed joint, you will experience sharp and accurately-aligned cutting edges for every procedure, every time.

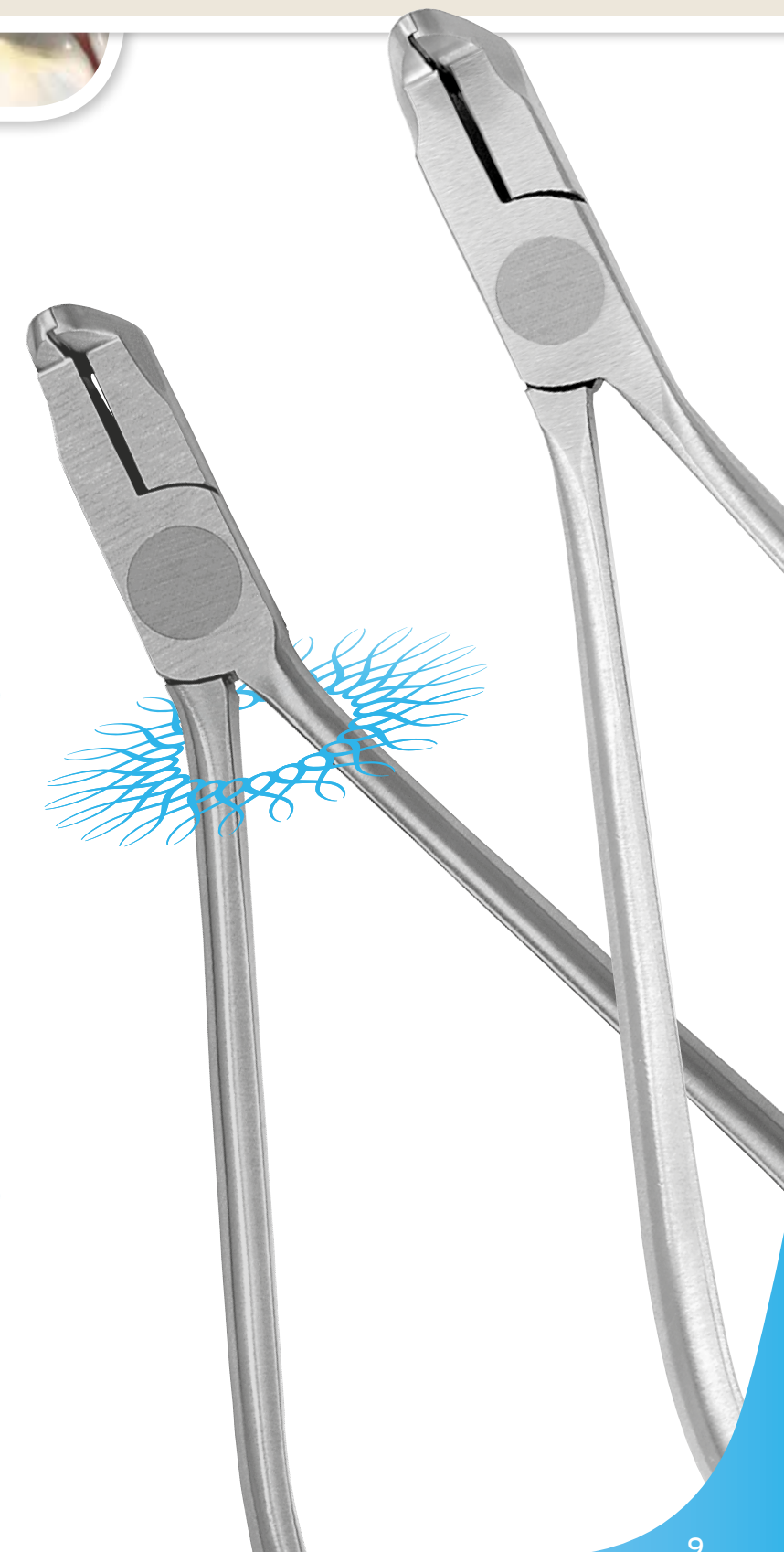
For each individual area of focus, we provide a specifically engineered cutter. To meet these stringent standards, all of our blades are hand-finished to maximise cutting performance for the appropriate wire size.

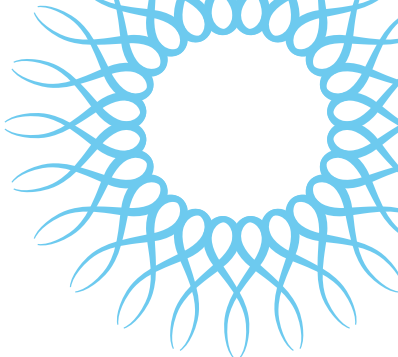


Universal Cut &  
Hold Distal End Cutter  
**678-101**  
Wire size:  
< = .012" to .021" x .025"  
(.30 mm - .53 mm x .64 mm)  
When used intraorally  
it safely holds the cut  
portion to be discarded.  
Patient comfort is  
enhanced by the smooth,  
tapered tip.



Universal Cut &  
Hold Distal End Cutter  
with Long Handle  
**678-101L**  
Wire size:  
< = .012" to .021" x .025"  
(.30 mm - .53 mm x .64 mm)  
Same as 678-101, with  
long handle.

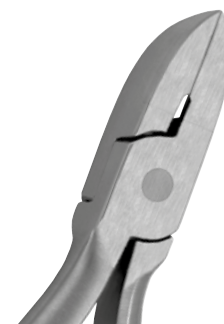




**Flush Cut Distal End Cutter, No Hold**  
**678-102**  
Wire size:  
< = .021" x .025"  
(.53 mm x .64 mm)  
An exceptional universal cutter for all types of wires.



**Flush Cut & Hold Distal End Cutter**  
**678-111**  
Wire size: < = .020" (.51 mm)  
Cuts and holds wire distally flush to the buccal tube while reducing debondings. Designed for all types of wires.



**Hard Wire Cutter, Straight**  
**678-104**  
Wire size:  
< = .022" x .028"  
(.56 mm x .71 mm)  
Designed to cut hard wires.



**Pin & Ligature Cutter**  
**678-105**  
Wire size:  
< = .015" (.38 mm)  
Designed to cut soft wire pins and ligature wires.



**Slim Flush Cut & Hold Distal End Cutter**  
**678-113**  
Wire size:  
< = .012" to .021" x .025"  
(.30 mm - .53 mm x .64 mm)  
Cuts and holds wire distally flush to the buccal tube while reducing debondings. Designed for all types of wires.



**Hard Wire Cutter, 15°**  
**678-103**  
Wire size:  
< = .022" x .028"  
(.56 mm x .71 mm)  
15° offset tip enhances access in difficult areas. Designed to cut hard wires.



**Mini Pin & Ligature Cutter**  
**678-106**  
Wire size:  
< = .012" (.30 mm)  
Slim profile is a plus in difficult to access areas. Designed to cut soft wire pins and ligature wires.



**Micro-Mini Pin & Ligature Cutter**  
**678-107**  
Wire size:  
< = .012" (.30 mm)  
Ultra slim profile is a plus in the most difficult to access areas. Designed to cut soft wire pins and ligature wires.

## SLIM FLUSH CUT & HOLD DISTAL END CUTTER

Hu-Friedy's inserts ensure the cutter flushly cuts wire distally to the buccal tube or bracket. The blue silicone ring holds the cut wire until released. The slim design of the cutter increases intraoral visibility, reduces debondings and is more comfortable for the patient.

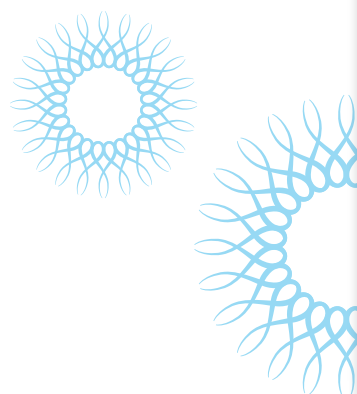
The 678-114 is designed for all wire types, up to a maximum of .021" x .025" (.53mm x .64mm).



**O-Ring Design**  
**678-114**

10 blue silicon rings included in package. Replacement rings can be purchased.

**678-114R50** Pack of 50 Rings  
**678-114R150** Pack of 150 Rings



### POINTS OF PERFORMANCE

- **Crafted with Immunity Steel®**  
A proprietary blend of Surgical Grade Stainless Steel for a long-lasting cutting edge plus corrosion resistance
- **Cuts Flush**  
Distal wire is cut flush to brackets for optimal patient comfort
- **Slim Design**  
Slender working end improves intraoral visibility, reducing debondings.
- **Blue Ring**  
Brightly colored medical grade silicon ring cushions and holds the cut wire.



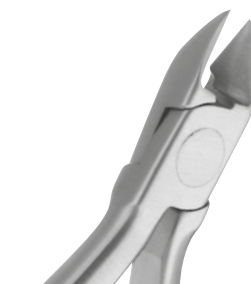
**Micro-Mini Pin & Ligature Cutter with Long Handle**  
**678-107L**  
Wire size: < = .012" (.30 mm)  
Same as 678-107, with long handle.



**Micro-Mini Pin & Ligature Cutter, 15°**  
**678-109**  
Wire size:  
< = .012" (.30 mm)  
15° offset tip with ultra slim profile is a plus in the most difficult to access areas. Designed to cut soft wire pins and ligature wires.



**Micro Cutter**  
**678-110**  
Wire size: < = .012" (.30 mm)  
Ligature cutter with reduced tip dimension. Designed to cut soft wire pins and ligature wires.



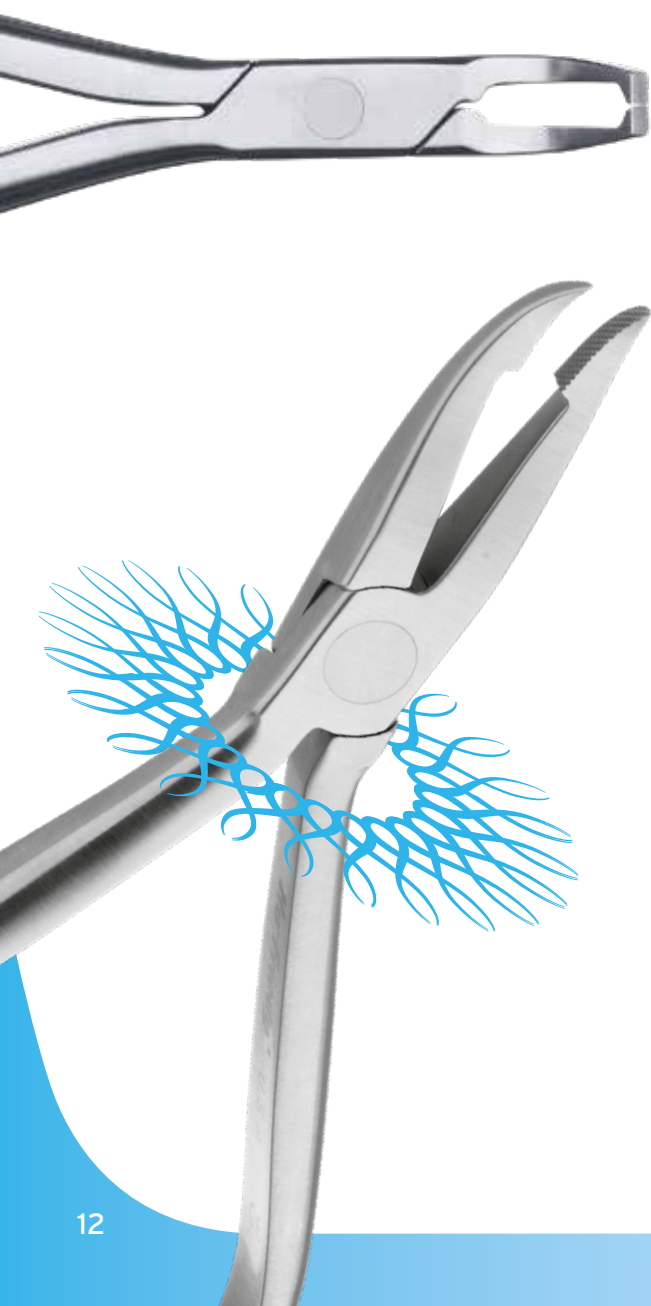
**Slim Micro Cutter**  
**678-500**  
Wire size: < = .008" to .012"  
The slender tip allows for easier access when removing elastics. The face of the cutter has been *scooped out* and reduced by 13% as compared to our original 678-110 to enhance visibility.





## UTILITY PLIERS

Strong, yet lightweight and perfectly balanced, the dimensions of these instruments are perfectly proportioned, they 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.



**Ultra Slim Weingart Pliers**  
**678-200**  
Ultra slim, 45 % slimmer at tip than 678-202, tapered 20° tips with serrations, useful for placement and removal of archwires.



**Weingart Pliers**  
**678-201**  
Versatile utility pliers with serrations. Tapered 32° angular design is convenient for placement and removal of archwires.



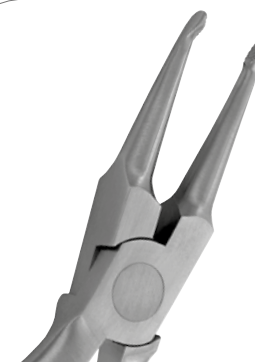
**Weingart Pliers with Long Handle**  
**678-201L**  
Same as 678-201, with long handle.



**Slim Weingart Pliers**  
**678-202**  
Slim, tapered 20° tips with serrations offer greater access and versatility.



**Ultra Slim Weingart Pliers**  
**678-501**  
Wire size: < = .030" (.76 mm)



**How Pliers, Straight**  
**678-203**  
How utility pliers have serrated tips. Useful for placement and removal of archwires, pins and other auxiliaries.



**How Pliers, Offset**  
**678-204**  
Wire size: < = .030" (.76 mm)  
Similar to the straight How pliers, except tips are angled at 40° for accessing lingual and other hard to reach areas.



**Band Seating Pliers**  
**678-205**  
Serrated tips grip brackets to assist in placing bands.



**Adhesive Removing Pliers**  
**678-206**  
Reversible, replaceable blade is used to remove the bulk of composite material after debonding attachments.



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



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



**Slim Band Removing Pliers**  
**678-503**  
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.



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



**Coon Style Ligature Tying Pliers**  
**678-211**  
Wire size: < = .015" (.38 mm)  
Most popular pliers for tying stainless ligature wires.



**Tip Back Pliers**  
**678-216**  
Wire size: < = .022" x .025" (.56 mm x .64 mm)  
Bends down the distal extension of an archwire protruding past the buccal tube. Unique contra-angle design allows for easy intraoral access. With long handle.

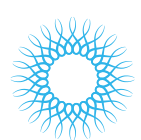


**Bracket Removing Pliers, Straight**  
**678-219**  
Wire size: < = .022" x .025" (.56 mm x .64 mm)  
Works well for steel, ceramic and plastic brackets of all types.



**Angulated Bracket Removing Pliers**  
**678-220L**  
High angle design in long handle is effective for removal of all bracket styles from anterior and posterior teeth.





## UTILITY PLIERS



**Crown & Band  
Contouring Pliers**  
**678-221**

Designed for fitting of  
stainless steel crowns  
and bands.



**Slim Crown & Band  
Contouring Pliers**  
**678-221M**

Same as 678-221,  
with slimmer beak.



**Slim Crown & Band  
Contouring Pliers**  
**678-221MC**

Same as 678-221, with  
slimmer beak.



**Steiner Tying Pliers**  
**678-222**

Wire size:  $\leq .015"$  (.38 mm)  
Ideal for tying stainless  
steel ligature wires.



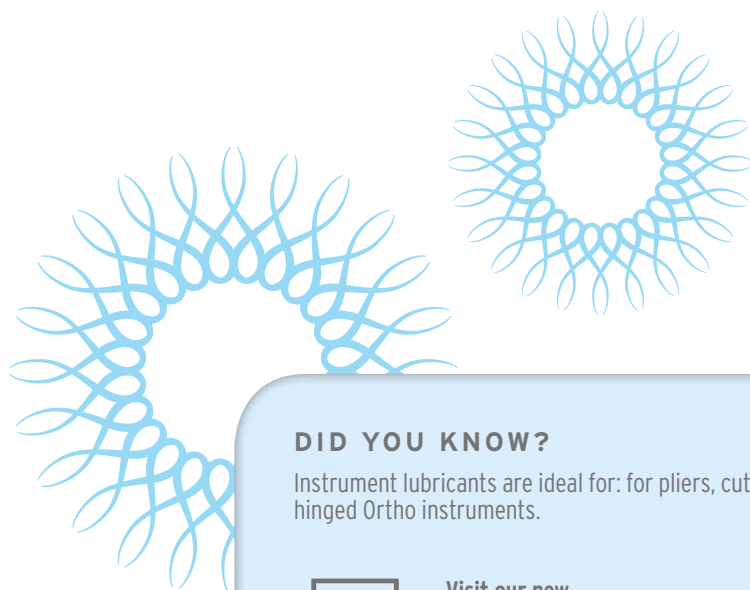
**Band Crimping Pliers**  
**678-225**

Thin tips allow for easy access  
into molar and bicuspid bands.



**Band Crimping Pliers  
with Spring**  
**678-225M**

Thin tips allow for easy access  
into molar and bicuspid bands.  
With spring.



### DID YOU KNOW?

Instrument lubricants are ideal for: for pliers, cutters and other  
hinged Ortho instruments.

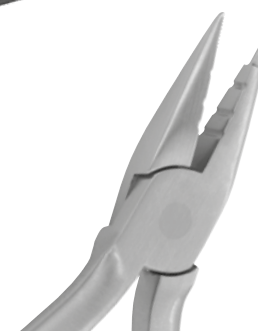
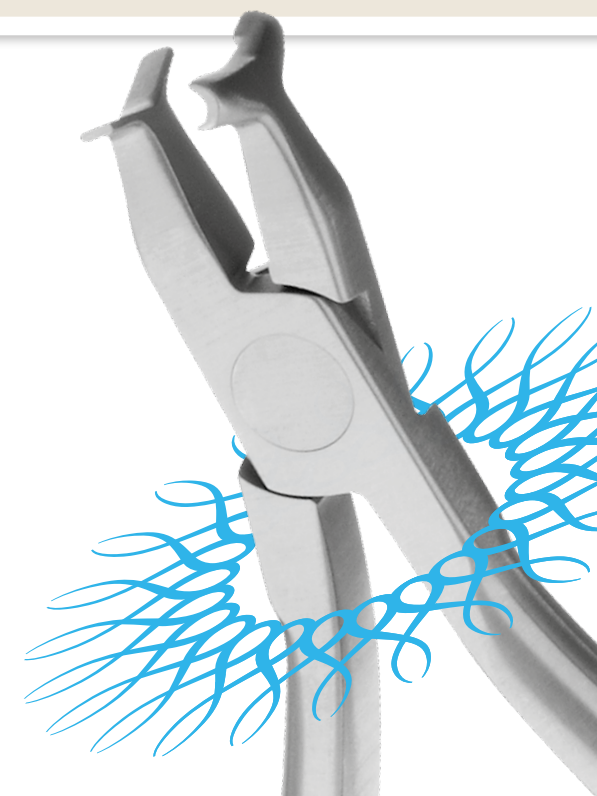


Visit our new  
**IMS INSTRUMENT MANAGEMENT SYSTEM**  
site at [hu-friedy.eu](http://hu-friedy.eu)



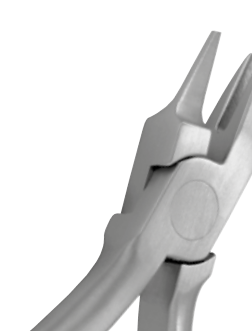
## WIRE FORMING PLIERS

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.



**Jarabak Pliers**  
**678-301**

Wire size:  $\leq .020"$  (.51 mm)  
Versatile light wire bending  
pliers. Grooves assist with precise  
bending and closing of loops.  
Serrated surface grips wires.



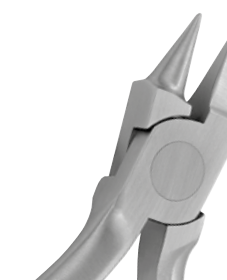
**Three Jaw Pliers**  
**678-302**

Wire size:  $\leq .030"$  (.76 mm)  
Useful for contouring and  
bending wire.



**Omega Loop Forming Pliers**  
**678-303**

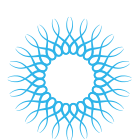
Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Graduated cone is designed  
to form precise omega loops:  
.045", .060" and .075"



**Bird Beak Pliers**  
**678-304**

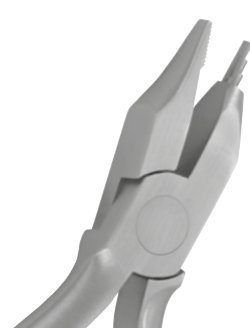
Wire size:  $\leq .030"$  (.76 mm)  
Versatile loop forming pliers  
for round wires.





**Light Wire Bird Beak Pliers with Groove**  
**678-305**

Wire size:  $\leq .020"$  (.51 mm)  
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.



**Tweed Loop Forming Pliers**  
**678-306**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Loop forming pliers with .045", .060" and .075" diameters for creating bull and helical loops in wires.



**Arch Bending Pliers**  
**678-307**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Designed for placing first, second and third order bends, .050" blade width.



**General Contouring Pliers**  
**678-315**

Wire size:  $\leq .021" \times .025"$   
(.56 mm x .64 mm)  
Tapered, serrated pliers for ease of contouring archwires.



**Marcotte Looping Pliers**  
**678-316**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
For precise forming of helical loops and T loops. No right angles. Prevents stress fracture of wires.



**Hollow Chop Pliers**  
**678-317**

Wire size:  $\leq .030"$  (.76 mm)  
Same as 678-310, with reduced radius.



**Tweed Pliers, Slim**  
**678-307S**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Designed for placing first, second and third order bends, .025" blade width.



**Rectangular Arch Bending Pliers**  
**678-308**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Designed for placing first, second and third order bends, .070" blade width.



**Hollow Chop Contouring Pliers**  
**678-310**

Wire size:  $\leq .030"$  (.76 mm)  
Perfect for subtle contouring of arch wires.



**Light Wire Bird Beak Pliers - Without Groove**  
**678-318**

Wire size:  $\leq .020"$  (.51 mm)  
A longer cone than a standard bird beak is useful for forming precise loops in light wire.



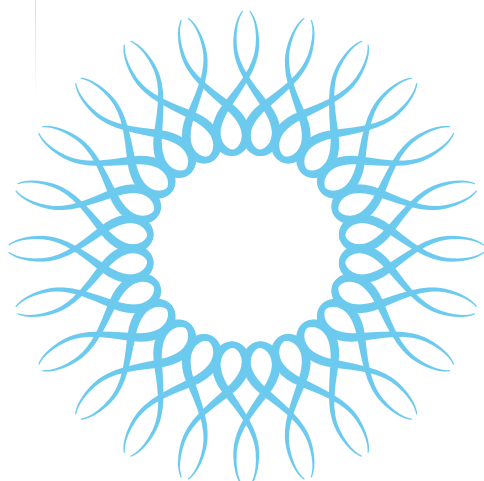
**Nance Loop Forming Pliers**  
**678-319**

Wire size:  $\leq .022"$  (.53 mm)  
For precise forming of loops in four lengths: 3, 4, 5 and 6 mm. Groove at base aids in closing loops.



**Adams Pliers**  
**678-320**

Wire size:  $\leq .040"$  (1.01 mm)  
Excellent precise right angle bends and appliance application.



**O'Brien Pliers**  
**678-311**

Wire size:  $\leq .020"$  (.51 mm)  
For precise forming of small helical loops and intraoral tip back bends.



**Mini Three Jaw Pliers**  
**678-312**

Wire size:  $\leq .030"$  (.76 mm)  
Tips are rounded for ease of contouring light wire.



**V-Stop Pliers**  
**678-321**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Places V bend in archwires, including nickel titanium, to prevent archwire from traveling.



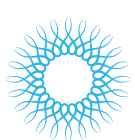
**NiTi Three Jaw Pliers**  
**678-322**

Wire size:  $\leq .020"$  (.51 mm)  
Designed for forming and contouring of all archwire, especially for NiTi.



**Optical Pliers**  
**678-323**

Wire size:  $\leq .022" \times .025"$   
(.56 mm x .64 mm)  
Excellent for forming helical closing loops and arch adjustments.



## WIRE FORMING PLIERS



Old Style Loop Pliers  
**678-324**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Provides optimum accuracy and precision in forming and closing loops with one cylindrical three-step beak and one triangular beak.



Bird Beak Pliers with Cutter  
**678-325**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Smooth bending surfaces for a range of loop sizes while providing a sharp blade for cutting.



Long Tapered Bird Beak Pliers  
**678-326**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Bends a variety of smooth loops.



Hammerhead®  
NiTi Tie-Back Pliers  
**678-327**

Wire size:  $\leq .025''$  (.64 mm)

Multi-use NiTi bender, no heat.



Slim Hammerhead  
NiTi Pliers  
**678-502**

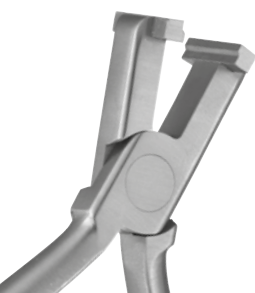
Wire size:  $\leq .025''$  (.64 mm)

For NiTi wire only, no heat.



Torquing Pliers with  
.016" / .018" key  
**678-328-20**

Torquing Pliers with  
.019" / .022" key  
**678-328-21**



Ortho Step Pliers,  
1/2 mm  
**678-340**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Creates z-bends (bayonet bends) in one step, creates step-up or step-down at 1/2 mm.



Ortho Step Pliers,  
3/4 mm  
**678-341**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Creates z-bends (bayonet bends) in one step, creates step-up or step-down at 3/4 mm.

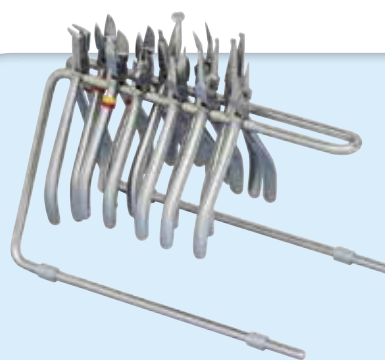


Ortho Step Pliers,  
1 mm  
**678-342**

Wire size:  $\leq .022'' \times .025''$

(.56 mm x .64 mm)

Creates z-bends (bayonet bends) in one step, creates step-up or step-down at 1 mm.



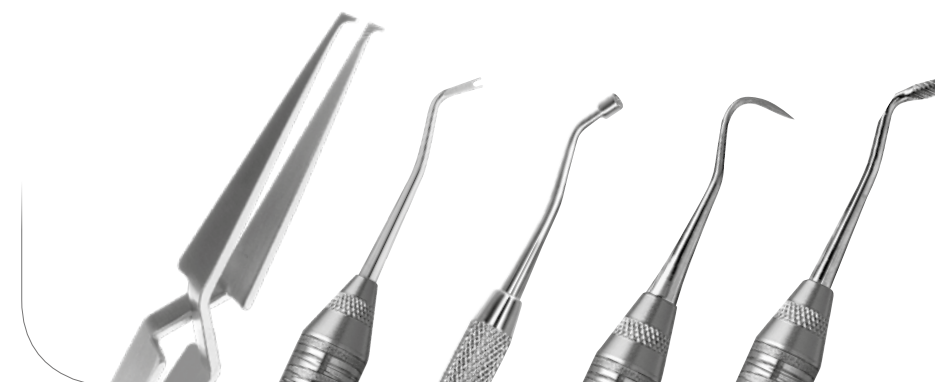
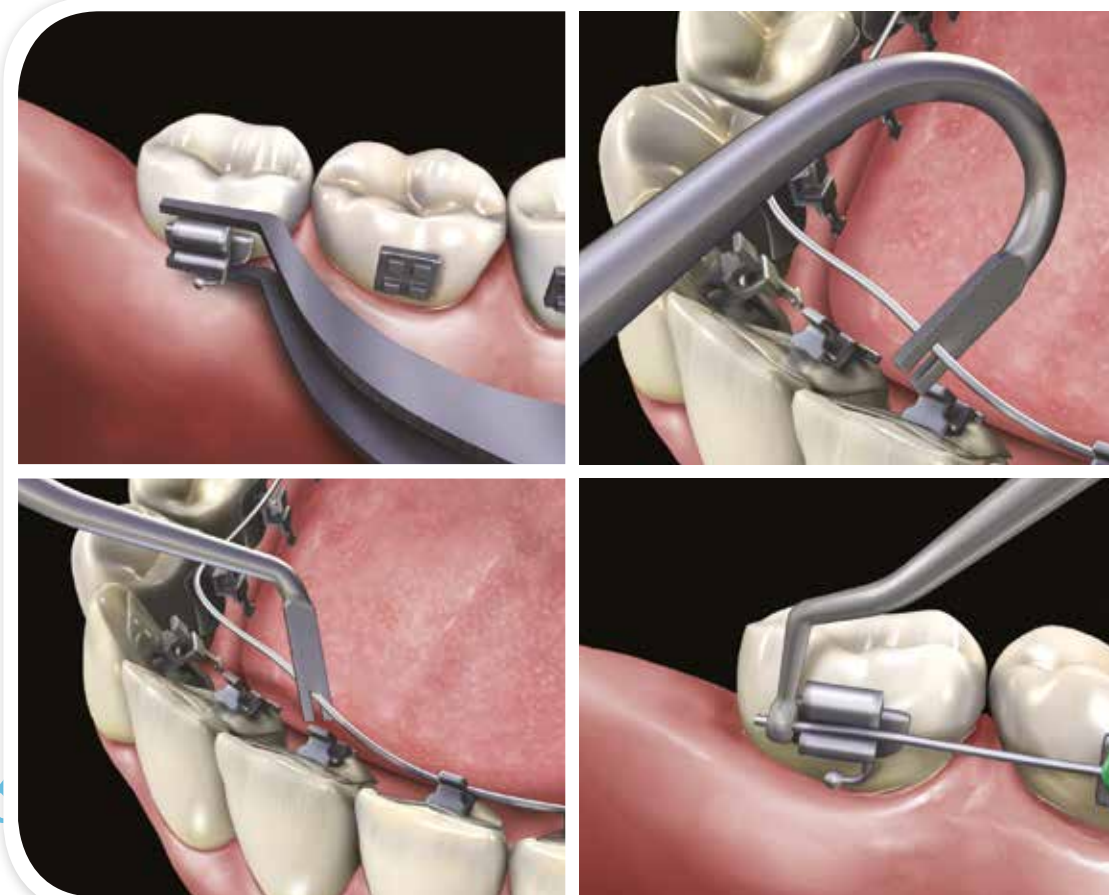
Ortho Plier Stand  
with silicone feet  
**ZASTAEND**

Special stand specifically designed for Ortho Pliers, the silicone feet prevent it from slipping.



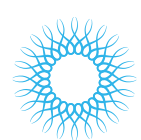
## HAND INSTRUMENTS

All of our Orthodontic hand instruments are 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 caliber tips and handles, in the manner of precision and excellence you demand.



Tweezers Directors Pluggers Scalers Band Pushers





Direct Bond  
Bracket  
Tweezers  
**678-212**



Slim Direct  
Bond  
Bracket  
Tweezers  
**678-212M**



Slim Direct  
Bond  
Bracket  
Tweezers  
**678-504**



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



Distal Cinch  
Back Hand  
Instrument  
**678-506**  
Handle: #6  
Wire size:  
< = .021" x .025"  
(.53 x.64 mm)



Scaler/  
Band  
Pusher  
**678-904**  
Handle: #6



Ligature  
Director  
Scaler  
**678-905**  
Handle: #6



Dull Scaler/  
Band  
Pusher  
**678-906**  
Handle: #6



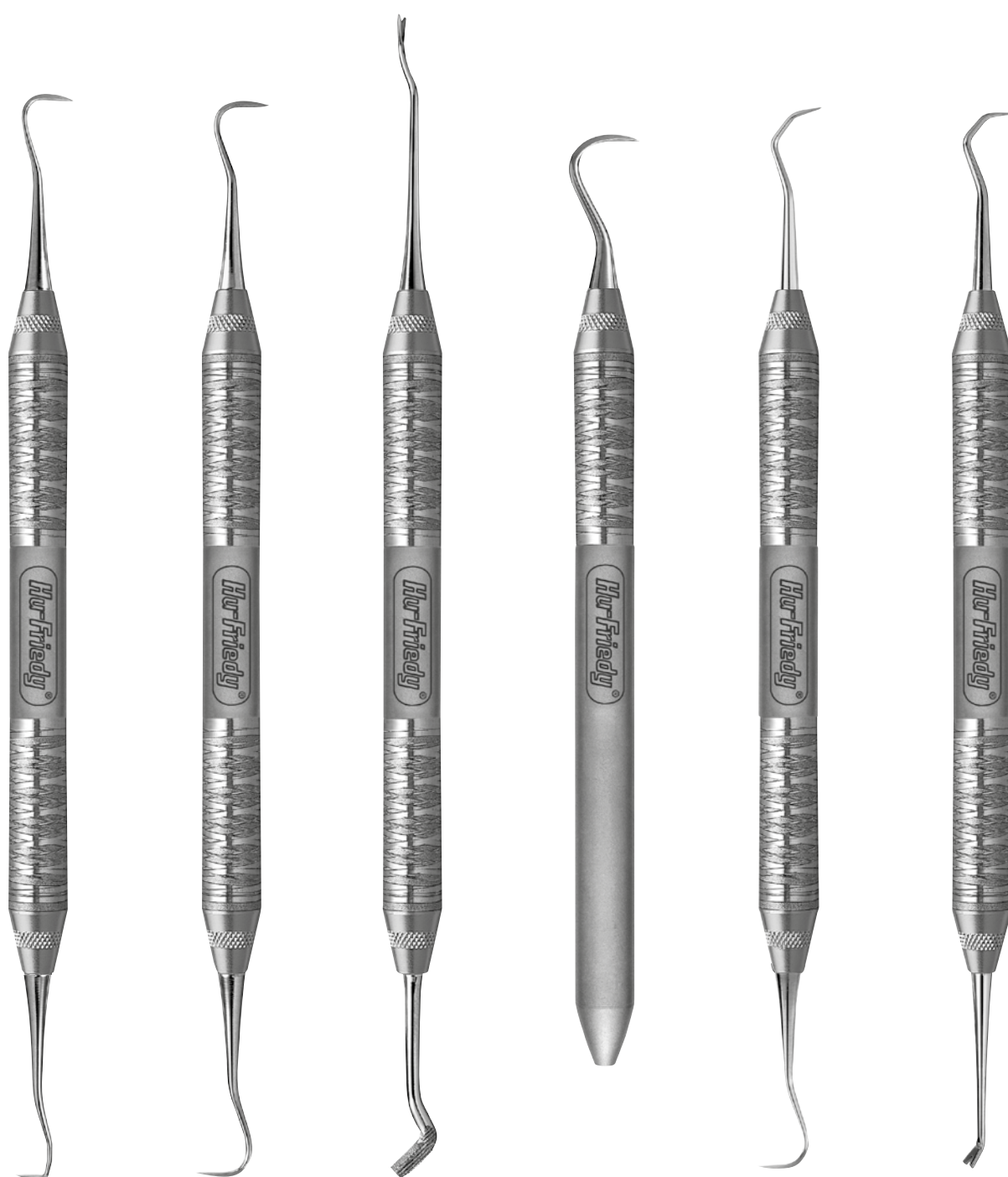
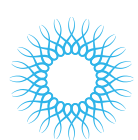
Small  
Plugger/  
Picker  
**678-907**  
Handle: #6



Ligature  
Director/Band  
Pusher  
**678-908**  
Handle: #6



Large  
Plugger/  
Picker  
**678-909**  
Handle: #6



Dull  
Scaler  
**678-910**  
Handle: #6

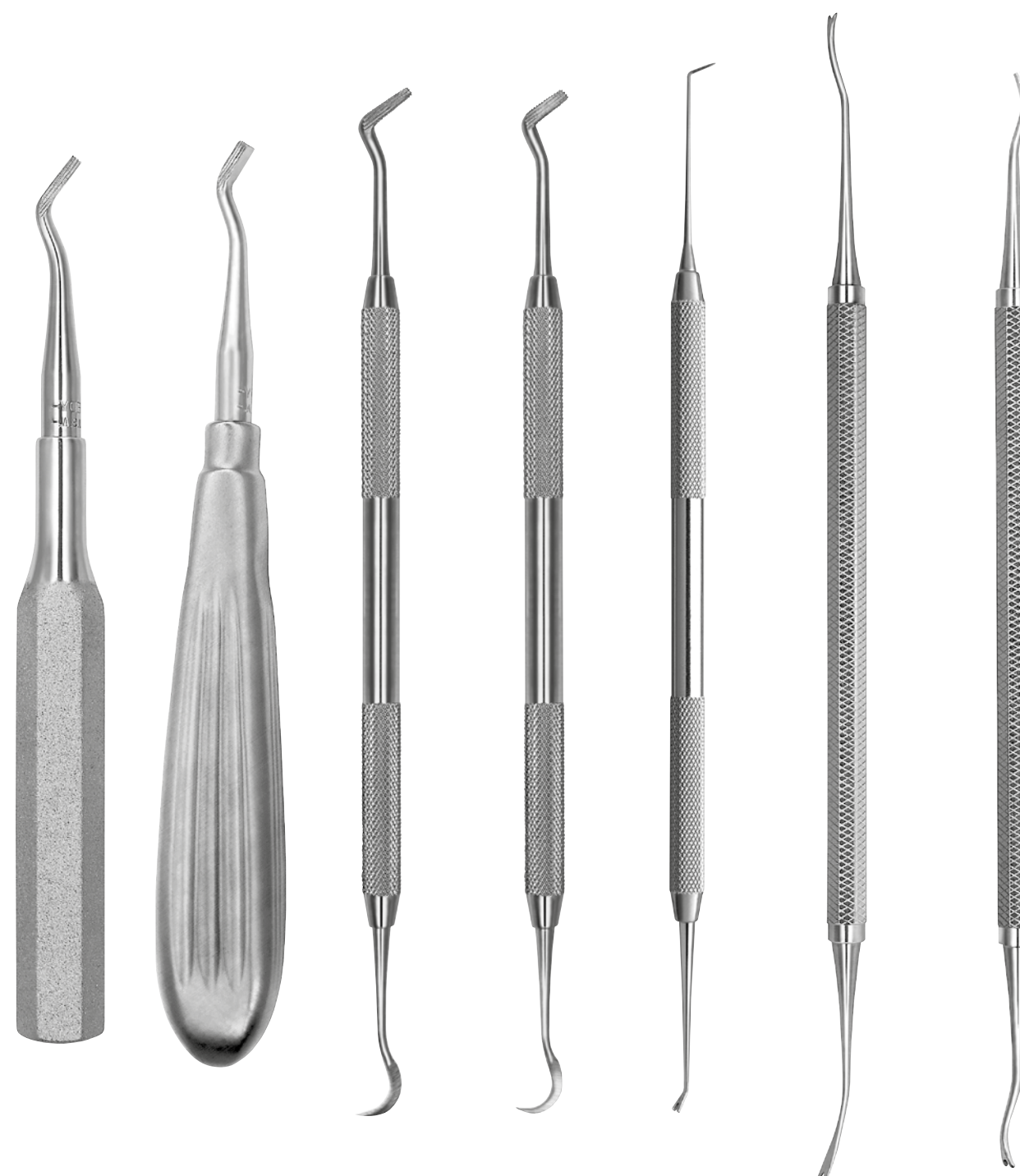
Dull  
Scaler  
**678-911**  
Handle: #6

Ligature  
Director/  
Band Pusher  
**678-912**  
Handle: #6

Dull  
Scaler  
**678-913**  
Handle: #7

Scaler/  
Picker  
**678-914**  
Handle: #6

Picker/  
Ligature  
Director  
**678-916**  
Handle: #6



Band Pusher  
**BP300**  
Aids in  
placement  
and burnishing  
of band.

Band Pusher  
with Short  
Tip  
**BP300S**  
Same as  
BP300 except  
the working  
end is shorter.

Band Pusher/  
Scaler  
**BPS1**  
Versatile  
instrument  
for band  
placement  
and cleanup  
of band  
cement.

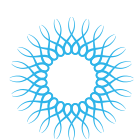
Band Pusher/  
with Short  
Tip/Scaler  
**BPS2**  
Same as BPS1  
except the  
working end  
of the band  
pusher is  
shorter.

Fillion  
Explorer/  
Ligature  
Director  
**FE/LD**  
Wire size  
≤ .015" (.38 mm)  
Ideal for placing  
and removing  
elastic ligatures  
with lingual  
brackets.

Ligature  
Director  
**LD1**  
Wire size  
≤ .015" (.38 mm)

Ligature  
Director  
**LDG2**  
Wire size  
≤ .015" (.38 mm)





Ligature Director/  
Plugger  
**LDP**

Ligature Director  
Tucker  
**LDT**

Plugger/  
Ligature  
Picker  
**PLPK**

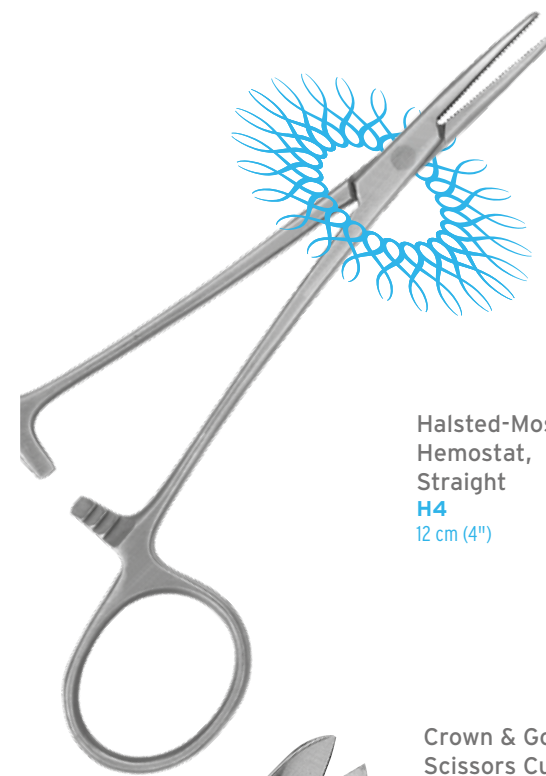
Lingual Ligature  
Director,  
.018"  
**SNLD1**  
Handle: #6

Lingual Ligature  
Director,  
.025"  
**SNLD2**  
Handle: #6

Lingual Torquing  
Key  
**TK018**  
Handle: #6  
Designed for proper wire placement and improved torque expression in an .018" slot lingual system.

Straight .020"  
Applicator  
**TK020S**  
Handle: #7

Single End Ligature Director  
**WBI-M/R**  
Handle: #10  
<= .015 (.38 mm)



Halsted-Mosquito  
Hemostat,  
Straight  
**H4**  
12 cm (4")



Crown & Gold  
Scissors Curved  
**SCGC**



Crown & Gold  
Scissors Pedro  
**SCGCP**



Crown & Gold  
Scissors Straight  
**SCGS**



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



## MATHIEUS, SCISSORS & HEMOSTATS

Created with the same meticulous attention to detail as our pliers, Hu-Friedy hinged instruments are also forged from Immunity Steel® Alloy, making them resistant to rust and corrosion.



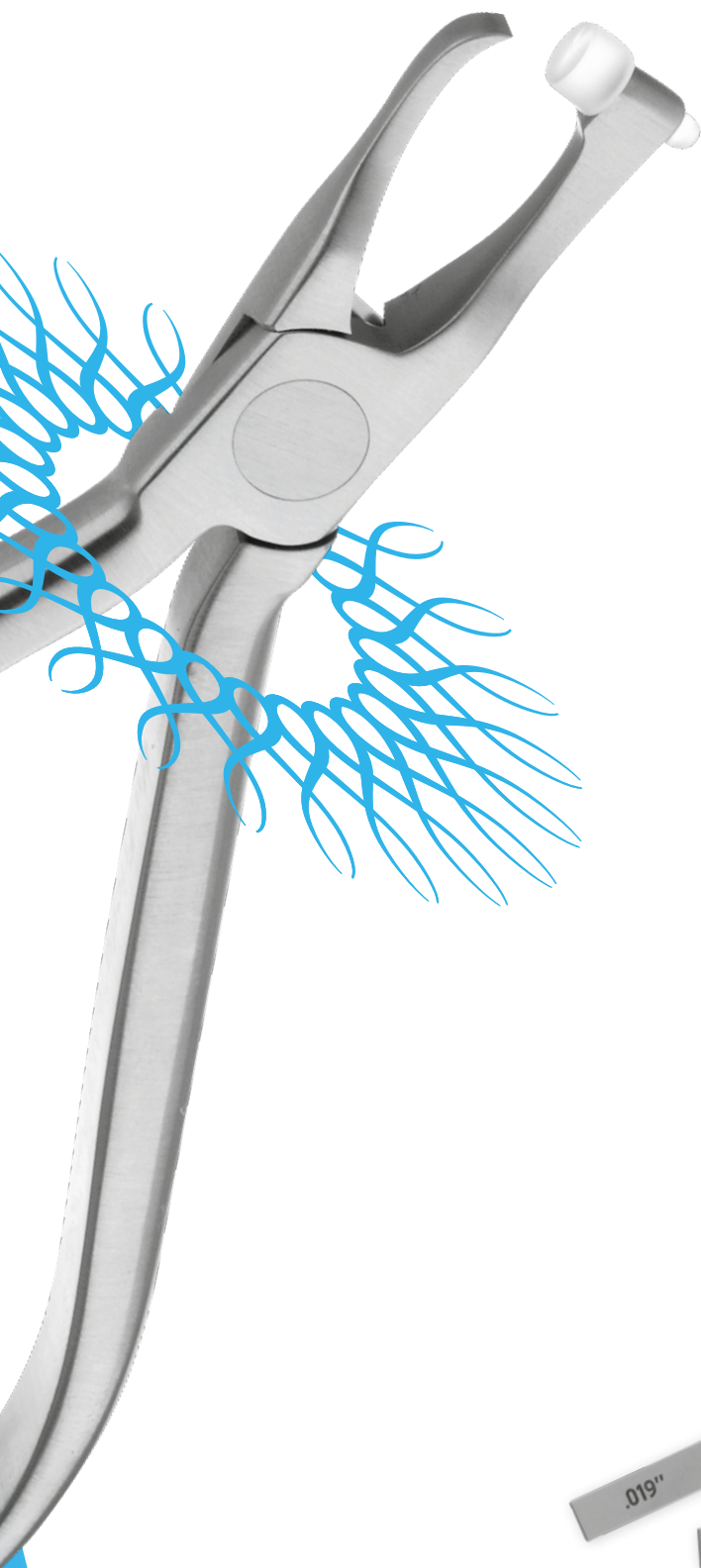
Ortho Mathieu,  
Narrow Tip Pliers  
**678-330**  
Slimmer tip makes this ideal for gripping and placing elastic auxiliaries.

Ortho Mathieu,  
Wide Tip Pliers  
**678-331**  
With wider, stronger tips.

Ortho Mathieu,  
Perma Sharp®  
Pliers  
**678-332**  
Thin tips made with Carbide inserts Golden handle.

Mathieu-Kocher  
Perma Sharp  
Needle Holder  
**NH5074E**  
Tungsten carbide inserts with a ground pyramidal profile to assure a firm, positive grip. 14cm long.





Replacement Parts

Replacement blade for 678-206 Quantity: 1	678-001
Replacement blade for 678-303 Quantity: 1	678-002
Silicone Insert for 678-111 Quantity: 3	678-011
Silicone Insert for 678-113 Quantity: 3	678-013
1/4" Replacement pads for 678-207, 678-208, 678-503 Quantity: 6	678-014
1/4" Replacement pad for 678-206 Quantity: 6	678-014A
1/8" Replacement set screw for 678-206, 678-303 Quantity: 1	678-018
Torquing Key .016" / .018" Quantity: 1	678-020
Torquing Key .019" / .022" Quantity: 1	678-021
3/16" Replacement pad for 678-207, 678-208, 678-503 Quantity: 6	678-036
Replacement rings for 678-114 Quantity: 50	678-114R50
Replacement rings for 678-114 Quantity: 150	678-114R150

HINGED INSTRUMENTS

All hinged instruments – forceps, rongeurs, scissors, pliers, hemostats, 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 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 used in the dental office that can be verified by spore testing (steam autoclave, dry heat, and chemical vapor). Sterilise hinged instruments in the open position. For a comparison of heat sterilisation methods, visit our website at 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.

DO'S & DON'TS OF PROCESSING INSTRUMENTS

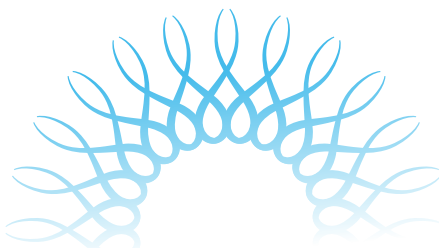
For best results, Hu-Friedy recommends the use of ultrasonics for instrument cleaning and steam autoclaves for sterilisation. Never use tartar remover on instruments. For light stains, we recommend Shine reNEW Cleaner. Never spray surface disinfectant near instruments. Use only approved lubricant (Never 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 (stain and tartar remover), Aluminum 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.

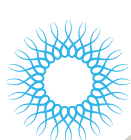
The following chemicals should NEVER be used with stainless steel: Aqua Regia, Ferric Chloride, Sulfuric Acid, Hydrochloric Acid or Iodine.



TROUBLESHOOTING

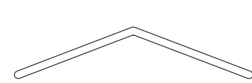
PROBLEM	CAUSE	PREVENTION
SPOTTING	<ul style="list-style-type: none"><li>Insufficient rinsing after ultrasonic cleaning.</li><li>Insufficient drying after ultrasonic cleaning.</li><li>Not changing ultrasonic solution.</li><li>Steriliser has not been cleaned.</li></ul>	<ul style="list-style-type: none"><li>Rinse thoroughly under steady stream of water for 30 seconds.</li><li>Rinse with hot water.</li><li>Optional: Dip cassettes in alcohol after rinsing.</li><li>Solution should be changed at least once a day.</li><li>Sterilisers should be cleaned weekly.</li><li>Use only distilled water for reservoir.</li></ul>
RUST	<ul style="list-style-type: none"><li>Corrosion from carbon steel instruments spreads to stainless steel instruments.</li></ul>	<ul style="list-style-type: none"><li>Separate stainless and carbon instruments.</li><li>For carbon steel instruments: Dip in pre-sterilised rust-inhibiting solution as suggested by steriliser manufacturer.</li></ul>
PITTING	<ul style="list-style-type: none"><li>Chemical attack on instruments.</li></ul>	<ul style="list-style-type: none"><li>Rinse and dry instruments thoroughly.</li><li>Use approved cleaning, sterilisation solutions only .</li><li>Never use household bleach or stain and tartar remover.</li></ul>





# WIRE BENDS

## WIRE BENDS



**678-302**  
Three Jaw Pliers



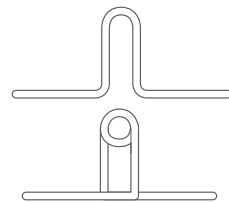
**678-303**  
Omega Loop Forming Pliers



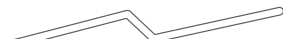
**678-304**  
Bird Beak Pliers



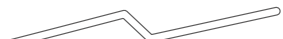
**678-305**  
Light Wire Bird Beak Pliers with Groove  
**678-318**  
Light Wire Bird Beak Pliers without Groove



**678-306**  
Tweed Loop Forming Pliers



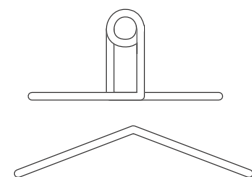
**678-307**  
Arch Bending Pliers



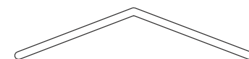
**678-308**  
Rectangular Arch Bending Pliers



**678-309**  
Lingual Arch Forming Pliers

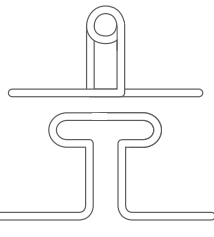


**678-311**  
O'Brien Pliers

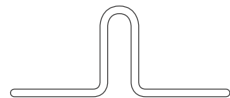


**678-312**  
Mini Three Jaw Pliers

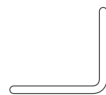
**678-322**  
NiTi Three Jaw Pliers



**678-316**  
Marcotte Looping Pliers



**678-319**  
Nance Loop Forming Pliers



**678-320**  
Adams Pliers



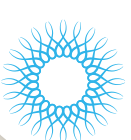
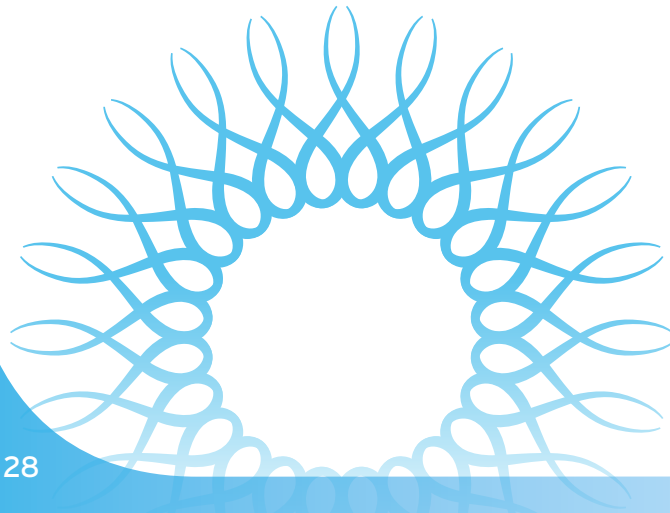
**678-321**  
V-Stop Pliers

## WARRANTY

Hu-Friedy, at its sole option, will repair or replace for a period of three years following the date of purchase, orthodontic cutter 678-113 and 678-700 that fails as a result of a defect in materials or workmanship.

Hu-Friedy, at its sole option, will repair or replace for a period of seven years following the date of purchase, all other orthodontic cutters that fail as a result of a defect in materials or workmanship. In addition, Hu-Friedy, at its sole option, will repair or replace for a period of ten years following the date of purchase, any orthodontic utility pliers or wire bending pliers that fail as a result of a defect in materials or workmanship.

For additional warranty information including limitations on warranties and exclusions, please visit [Hu-Friedy.eu](http://Hu-Friedy.eu).



# REFERENCE SECTION

## INSTRUMENT WIRE CAPACITIES

### CLEAR COLLECTION

PART CODE	DESCRIPTION	WIRE CAPACITY (INCHES)	WIRE CAPACITY (METRIC)
678-800	The Tear Drop	not used on wire	not used on wire
678-801	The Vertical	not used on wire	not used on wire
678-802	The Horizontal	not used on wire	not used on wire
678-803	The Hole Punch	not used on wire	not used on wire

### LINGUAL COLLECTION

678-700	Lingual Distal End Cutter	up to .018" arch wire	up to .45 mm arch wire
678-701	Lingual Pin & Lig Cutter	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-702	Lingual Weingart Pliers	up to .030" arch wire	up to .76 mm arch wire
678-702-90	Lingual Weingart Pliers 90° Bend	up to .030" arch wire	up to .76 mm arch wire
678-703	Lingual Bracket Removing Pliers	not used on wire	not used on wire
678-704	Lingual Hammerhead® NiTi Pliers	up to .025" NiTi wire	up to .64 mm NiTi wire
678-704SER	Lingual Hammerhead NiTi Pliers with Serrations	up to .025" NiTi wire	up to .64 mm NiTi wire
678-705	Lingual Mathieu Pliers	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-706	Lingual Ligature Director with Picker	up to .021" x .025"	up to .53 x .64 mm
678-707	Lingual Ligature Director, U-Shaped	up to .021" x .025"	up to .53 x .64 mm
678-708	Lingual Torquing Key with Picker	up to .018"	up to .46 mm
678-709	Lingual Debonding Plier	not used on wire	not used on wire

### SLIM COLLECTION

678-500	Slim Micro Cutter	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-501	Ultra Slim Weingart Pliers	up to .030" arch wire	up to .76 mm arch wire
678-502	Slim Hammerhead NiTi Pliers	up to .025" NiTi wire	up to .64 mm NiTi wire
678-503	Slim Band Removing Pliers	not used on wire	not used on wire
678-504	Slim Direct Bond Bracket Tweezers	not used on wire	not used on wire
678-505	Slim Buccal Tube Bonder Tweezers	not used on wire	not used on wire
678-506	Distal Cinch Back Hand Instruments	up to .021" x .025"	up to .53 mm x .64 mm

### CUTTERS

678-101	Universal Cut & Hold Distal End Cutter	.012" to .021" x .025"	.30 mm to .53 x .64 mm
678-101L	Universal Cut & Hold Distal End Cutter, Long Handle	.012" to .021" x .025"	.30 mm to .53 x .64 mm
678-102	Flush Cut Distal End Cutter, No Hold	up to .021" x .025"	up to .53 x .64 mm
678-103	Hard Wire Cutter, 15°	up to .022" x .028"	up to .56 x .71 mm
678-104	Hard Wire Cutter, Straight	up to .022" x .028"	up to .56 x .71 mm
678-105	Pin & Ligature Cutter	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-106	Mini Pin & Ligature Cutter	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-107	Micro-Mini Pin & Ligature Cutter	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-107L	Micro-Mini Pin & Ligature, Long Handle	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-109	Micro-Mini Ligature Cutter, 15°	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-110	Micro Ligature Cutter, 15°	up to .012" soft ligature wire	up to .30 mm soft ligature wire
678-111	Flush Cut Distal End Cutter with Hold	up to .020" hold, up to .030" cut	up to .51 mm hold, up to 75 mm cut
678-113	Slim Flush Cut Distal End Cutter with Hold	.012" to .021" x .025"	.30 mm to .53 x 64 mm
678-114	Slim Flush Cut & Hold Distal End Cutter	.012" to .021" x .025"	.30 mm to .53 x 64 mm

### UTILITY PLIERS

678-201	Weingart Pliers	up to .030" arch wire	up to .76 mm arch wire
678-201L	Weingart Pliers, Long Handle	up to .030" arch wire	up to .76 mm arch wire
678-202	Slim Weingart Pliers	up to .030" arch wire	up to .76 mm arch wire
678-203	How Pliers, Straight	up to .030" arch wire	up to .76 mm arch wire
678-204	How Pliers, Offset	up to .030" arch wire	up to .76 mm arch wire
678-205	Band Seating Pliers	not used on wire	not used on wire
678-206	Adhesive Removing Pliers	not used on wire	not used on wire
678-207	Posterior Band Removing Pliers, Long	not used on wire	not used on wire
678-208	Posterior Band Removing Pliers, Short	not used on wire	not used on wire
678-210	Force Module Separating Pliers	designed to place elastic separators	designed to place elastic separators
678-211	Coon Style Ligature Tying Pliers	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-212	Direct Bond Bracket Tweezers	not used on wire	not used on wire
678-212M	Slim Direct Bond Bracket Tweezers	not used on wire	not used on wire
678-216	Tip Back Pliers	up to .022" x .025"	up to .56 mm x .64 mm
678-219	Bracket Removing Pliers	not used on wire	not used on wire
678-220L	Angulated Bracket Removing Pliers	not used on wire	not used on wire
678-221	Crown & Band Contouring Pliers	not used on wire	not used on wire
678-221M	Slim Crown & Band Contouring Pliers	not used on wire	not used on wire
678-221MC	Slim Crown & Band Contouring Pliers	not used on wire	not used on wire
678-222	Steiner Tying Pliers	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-225	Band Crimping Pliers	not used on wire	not used on wire
678-225M	Band Crimping Pliers with Spring	not used on wire	not used on wire

### WIRE FORMING PLIERS

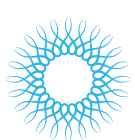
PART CODE	DESCRIPTION	WIRE CAPACITY (INCHES)	WIRE CAPACITY (METRIC)
678-301	Jarabak Pliers	up to .020" arch wire	up to .51 mm arch wire
678-302	Three Jaw Pliers	up to .030" arch wire	up to .76 mm arch wire
678-303	Omega Loop Forming Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-304	Bird Beak Pliers	up to .030" arch wire	up to .76 mm arch wire
678-305	Light Wire Bird Beak Pliers with Groove	up to .020" light wire	up to .51 mm Light wire
678-306	Tweed Loop Forming Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-307	Arch Bending Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-307S	Slim Arch Bending Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-308	Rectangular Arch Bending Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-309	Lingual Arch Forming Pliers	up to .036" arch wire	up to .91 mm arch wire
678-310	Hollow Chop Contouring Pliers	up to .030" arch wire	up to .76 mm arch wire
678-311	O'Brien Pliers	up to .020" arch wire	up to .51 mm arch wire
678-312	Mini Three Jaw Pliers	up to .030" arch wire	up to .76 mm arch wire
678-316	Marcotte Looping Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-317	Hollow Chop Pliers (Reduced Radius of 678-310)	up to .030" arch wire	up to .76 mm arch wire
678-318	Light Wire Bird Beak Pliers	up to .020" Light wire	up to .51 mm Light wire
678-319	Nance Loop Forming Pliers	up to .022" arch wire	up to .56 mm arch wire
678-320	Adams Pliers	up to .040" arch wire	up to 1.01 mm arch wire
678-321	V-Stop Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-322	NiTi 3-Three jaw Pliers	up to .020" arch wire	up to .51 mm arch wire
678-323	Optical Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-324	Old Style Looping Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-325	Bird Beak Pliers with Cutter	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-326	Long Tapered Bird Beak Pliers	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-327	Hammerhead® NiTi Tie - Back Pliers	up to .025" NiTi wire	up to .64 mm NiTi wire
678-328-20	Torquing Pliers with Key .016"/.018"	up to .018" arch wire	up to .45 mm arch wire
678-328-21	Torquing Pliers with Key .019"/.022"	up to .022" arch wire	up to .56 mm arch wire
678-340	Step Pliers, 1/2 mm	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-341	Step Pliers, 3/4 mm	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire
678-342	Step Pliers, 1 mm	up to .022" x .025" arch wire	up to .56 x .64 mm arch wire

### MATHIEU PLIERS

678-330	Ortho Mathieu Pliers, Narrow	designed for elastics application	designed for elastics application
678-331	Ortho Mathieu Pliers, Wide	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-332	Perma Sharp® Ortho Mathieu Pliers	up to .015" soft ligature wire	up to .38 mm soft ligature wire

### HAND INSTRUMENTS

678-904	Scaler/Band Pusher	not used on wire	not used on wire
678-905	Ligature Director/Scaler	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-906	Dull Scaler/Band Pusher	not used on wire	not used on wire
678-907	Small Plugger/Picker	not used on wire	not used on wire
678-908	Ligature Director/Band Pusher	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-909	Large Plugger/Picker	not used on wire	not used on wire
678-910	Dull Scaler	not used on wire	not used on wire
678-911	Dull Scaler	not used on wire	not used on wire
678-912	Ligature Director/Band Pusher	up to .015" soft ligature wire	up to .38 mm soft ligature wire
678-913	Dull Scaler	not used on wire	not used on wire
678-916	Picker/Ligature Director	up to .015" soft ligature wire	up to .38 mm soft ligature wire
BP300	Band Pusher	not used on wire	not used on wire
BP300S	Band Pusher with Short Tip	not used on wire	not used on wire
BPS1	Band Pusher/Scaler	not used on wire	not used on wire
BPS2	Band Pusher with Short Tip/Scaler	not used on wire	not used on wire
FE/LD	Fillion Explorer/Ligature Director	up to .015" soft ligature wire	up to .38 mm soft ligature wire
LD1	Ligature Director	up to .015" soft ligature wire	up to .38 mm soft ligature wire
LDG2	Ligature Director	up to .015" soft ligature wire	up to .38 mm soft ligature wire
LDP	Ligature Director/Plugger	up to .015" soft ligature wire	up to .38 mm soft ligature wire
LDT	Ligature Director/Tucker	up to .015" soft ligature wire	up to .38 mm soft ligature wire
PLPK	Plugger/Ligature Picker	up to .015" soft ligature wire	up to .38 mm soft ligature wire
SNLD1	Lingual Ligature Director, .018"	up to .018" arch wire	up to .45 mm arch wire
SNLD2	Lingual Ligature Director, .025"	up to .025" arch wire	up to .64 mm arch wire
TK018	Lingual Torquing Key	designed for .018" slot/wire	designed for .45 mm slot/wire
TK020S	Straight Wire Applicator	designed for .020" slot/wire	designed for .50 mm slot/wire
WBI-M/R	Ligature Director	up to .015" soft ligature wire	up to .38 mm soft ligature wire



# ORTHODONTIC SET-UPS

## ORTHO BANDING/BONDING SET-UP

DESCRIPTION	SUGGESTIONS
IMS Infinity Orthodontic Cassette (see page 33)*	IMEDINORT_
Band Pusher (see page 23)	BP300S or BP300
Band Removing Pliers, Short (see page 26)	678-208
Plugger (see page 21)	678-909
Direct Bond Bracket Holder (see page 20)	678-212M   678-212 or 678-504
Ligature Director/ Band Pusher (see page 21/22)	678-908   678-094   678-905 or 678-912

## ORTHO ARCHWIRE SET-UP

DESCRIPTION	SUGGESTIONS
IMS Infinity Orthodontic Cassette (see page 33)*	IMEDINORT_
Weingart Pliers (see page 12)	678-200   678-202 or 678-201L
Light Wire Bird Beak Pliers (see page 16/17)	678-305 or 678-318
Mathieu Pliers Orthodontic (see page 25)	678-330
Hemostat Halstead-Mosquito	or H3, H4
Mathieu Pliers Orthodontic (see page 25)	678-332
Sickle Curette, EverEdge 2.0 Version	SN1379E2   SH6/79E2 or SM239E2
Hard Wire Cutter 15 Degrees (see page 10/11)	678-103 or 678-109 for soft wire
Universal Distal End Cutter (see page 9)	678-101 or 678-101L
Ligature Director (see page 23/24)	LDG2 or TK0205

## ORTHO CLEAR LINE COLLECTION SET-UP

DESCRIPTION	SUGGESTIONS
IMS Infinity Orthodontic Cassette (see page 33)*	IMNORTHS8
Orthodontic Pliers: The Tear Drop (see page 4)	678-800
Orthodontic Pliers: The Vertical (see page 4)	678-801
Orthodontic Pliers: The Horizontal (see page 4)	678-802
Orthodontic Pliers: The Hole Punch (see page 5)	678-803

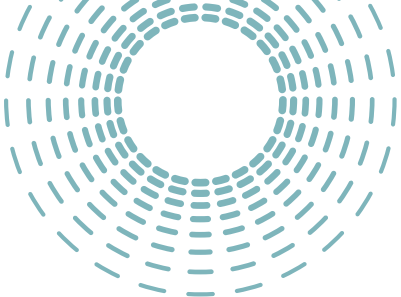
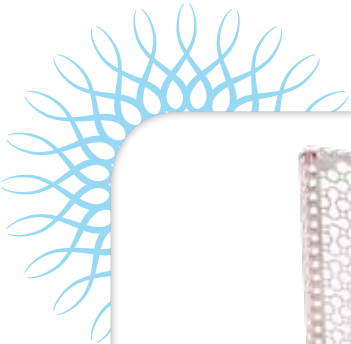
\*See page 35 for rails color coding options of IMS cassette.

## ORTHO DEBANDING/DEBONDING SET-UP

DESCRIPTION	SUGGESTIONS
IMS Infinity Orthodontic Cassette (see page 33)*	IMEDINORT_
Band Removing Pliers, Short (see page 26)	678-208 or 678-207
Angulated Bracket Remover (see page 13)	678-220L or 678-219
Weingart Pliers (see page 12)	678-200   678-201(L) or 678-202
Sickle Curette, EverEdge 2.0 Version	SN1379E2   SH6/79E2 or SM239E2
Universal Distal End Cutter (see page 9)	678-101 or 678-101L
Hard Wire Cutter 15 Degrees (see page 10)	678-103

## ORTHO LINGUAL LINE SET-UP

DESCRIPTION	SUGGESTIONS
IMS Infinity Large Thin Orthodontic Cassette (see page 33)*	IMNORTHL8
Lingual Distal End Cutter (see page 6)	678-700
Lingual Pin & Ligature Cutter (see page 6)	678-701
Lingual Weingart Pliers (see page 6)	678-702
Lingual Bracket Removing Pliers (see page 7)	678-703
Lingual Hammerhead NiTi Pliers (see page 7)	678-704
Lingual Ligature Director (see page 8)	678-706
Lingual Ligature Director - U Shaped (see page 8)	678-707



# ULTRASONIC ADHESIVE REMOVAL

Hu-Friedy offers a variety of ultrasonic products for the removal of adhesive. Now you can effectively remove adhesive faster and safer than ever before.



## MAGNETOSTRICTIVE



25 kHz Part Code:  
30 kHz Part Code:



#1000 Triple Bend  
UI25SD1000  
UI30SD1000



#3 Beavertail  
UI325K  
UI330K



#10 Universal  
UI25SD10  
UI30SD10

### POWER LEVEL

LOW—HIGH

MEDIUM—HIGH

MEDIUM—HIGH

- Light to heavy deposits
- Beveled edges for tenacious and heavy deposits
- Orthodontic cement

- Heavy deposits
- Orthodontic cement

- Light to heavy deposits
- Orthodontic cement

## PIEZOELECTRIC



S-Series  
E-Series

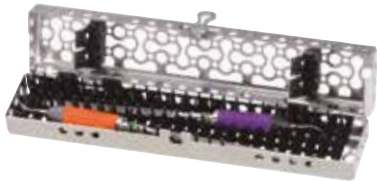
S10 Universal  
USS10  
UES10

MEDIUM—HIGH

Standard diameter tip used to remove heavy supragingival deposits.

## ULTRASONIC INSERT/HANDPIECE IMS INFINITY CASSETTE

Small: Exterior Dimension: 38 mm x 203 mm x 32 mm  
Large: Exterior Dimensions: 76 mm x 203 mm x 32 mm



Small Ultrasonic Insert/Handpiece Cassette



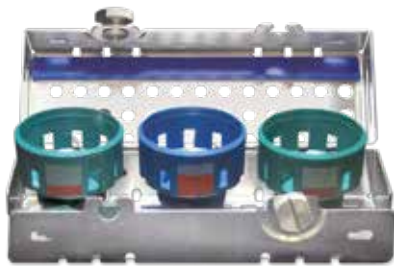
Large Ultrasonic Insert/Handpiece Cassette

		Small Cassette	Large Cassette
Red	■	IMN30HU0	IMN60HO
Grey	■	IMN30HU1	IMN60H1
White	□	IMN30HU2	IMN60H2
Orange	■	IMN30HU3	IMN60H3
Purple	■	IMN30HU4	IMN60H4
Yellow	■	IMN30HU5	IMN60H5
Lavender	■	IMN30HU6	IMN60H6
Black	■	IMN30HU7	IMN60H7
Blue	■	IMN30HU8	IMN60H8
Green	■	IMN30HU9	IMN60H9
Ocean Blue	■	IMN30HU11	IMN60H11

Small holds 2 Ultrasonic Inserts or 1 handpiece. Large holds up to 3 high-speed handpieces or 5 ultrasonic inserts.

## GUARDIAN WRENCH / TIP CARRIER

Hu-Friedy's Symmetry Piezo Tips come with the Guardian Tip Carrier—an innovative torque-limiting wrench/tip carrier designed for remarkable safe and easy connection to the handpiece.



Wrench Cassette (Blue)

IMIQ38

Dimensions: 143 mm x 49.5 mm x 45 mm  
Accommodates three Symmetry Piezo Tips In Guardian Wrenches.





# HU-FRIEDY'S INSTRUMENT MANAGEMENT SYSTEM

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

## 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 or class 5 according to ISO 11140-1). This label demonstrates, by means of a colour change, that the sterilization process of the IMS Cassette has been completed.

## 2. PRE-CLEANING

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 that 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.

## 6. STORAGE

Before storing, the IMS cassettes are inspected following the steam sterilizer 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.

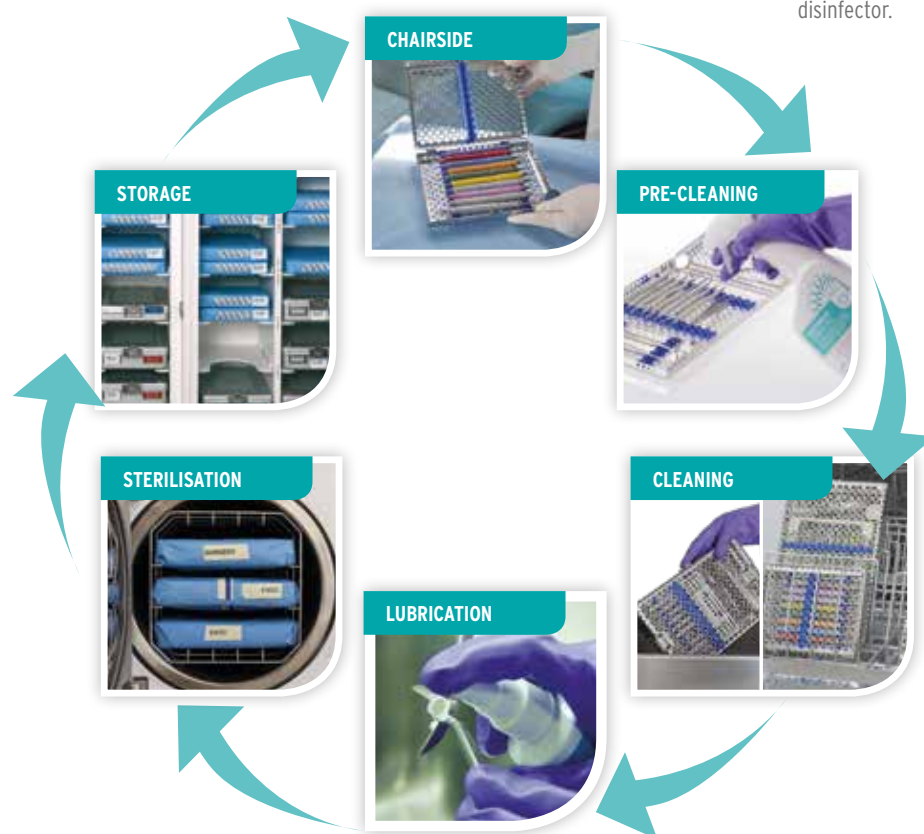
## 5. STERILIZATION

The IMS cassettes are packaged and steam sterilised. Hu-Friedy offers various packaging systems: IMS Sterilization wrap, Bagettes, or sterilization 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 sterilization and can then be stored sterile.

## 4. LUBRICATION

Hinged instruments have to be lubricated with a lubricant suitable for steam sterilization, like Hu-Friedy Instrument Lubricant Spray (ILS). Light corrosion on the surface can be removed with Hu-Friedy Penetrating Oil (IPS) or Shine reNEW Instrument Wipes (IMS-1455) when applicable. After treating an instrument with Shine reNEW or IPS, the instrument must be cleaned and sterilised once more. Instruments and cassettes must be completely dry prior to wrapping for sterilization.



Uniquely sophisticated, ergonomic design with revolutionary new hole pattern, the IMS Infinity Series Cassettes are made of long-lasting, low-maintenance stainless steel. Durable, coloured silicone rails securely hold instruments throughout the processing cycle. Once a chairside procedure is finished, contaminated instruments never need to be touched again. IMS combines sterilization, storage and organization of instruments in one integrated system.



## IMEDINORT\_1 DIN ORTHODONTIC CASSETTE

Dimensions: 290 x 184 x 34 mm.  
Holds up to 6 pliers and 3 hand instruments.

Red		IMEDINORT0
Grey		IMEDINORT1
White		IMEDINORT2
Orange		IMEDINORT3
Purple		IMEDINORT4
Yellow		IMEDINORT5
Lavender		IMEDINORT6
Black		IMEDINORT7
Blue		IMEDINORT8
Green		IMEDINORT9
Ocean Blue		IMEDINORT11



## SMALL THIN ORTHODONTIC CASSETTE

Dimension: 178 mm x 203 mm x 19 mm  
Holds up to 4 pliers and 3 hand instruments.

Purple		IMNORTS4
Blue		IMNORTS8
Green		IMNORTS9

## LARGE THIN ORTHODONTIC CASSETTE

Dimension: 203 mm x 280 mm x 19 mm  
Holds up to 7 pliers and 4 hand instruments.

Purple		IMNORTL4
Blue		IMNORTL8
Green		IMNORTL9





DOUBLE-DECKER SMALL  
ORTHODONTIC CASSETTE

14 Instruments: Exterior Dimension:  
44 mm x 203 mm x 38 mm

Red	■	IMN9140-O
Grey	■	IMN9141-O
White	□	IMN9142-O
Orange	■	IMN9143-O
Purple	■	IMN9144-O
Yellow	■	IMN9145-O
Lavender	■	IMN9146-O
Black	■	IMN9147-O
Blue	■	IMN9148-O
Green	■	IMN9149-O
Ocean Blue	■	IMN91411-O



DOUBLE-DECKER CASSETTE

20 Instruments: Exterior Dimension:  
152 mm x 246 mm x 38 mm. With accessory area

Red	■	IMN9200
Grey	■	IMN9201
White	□	IMN9202
Orange	■	IMN9203
Purple	■	IMN9204
Yellow	■	IMN9205
Lavender	■	IMN9206
Black	■	IMN9207
Blue	■	IMN9208
Green	■	IMN9209
Ocean Blue	■	IMN92011

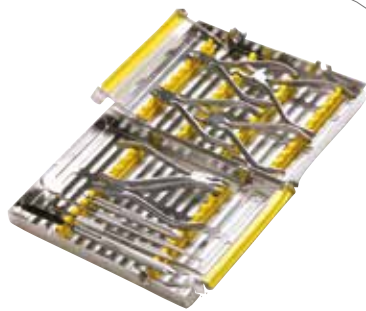


IME14DIN5\_  
1/4 DIN CASSETTE  
FOR 5 INSTRUMENTS

Dimensions 72 x 184 x 34 mm

Red	■	IME14DIN50
Grey	■	IME14DIN51
White	□	IME14DIN52
Orange	■	IME14DIN53
Purple	■	IME14DIN54
Yellow	■	IME14DIN55
Lavender	■	IME14DIN56
Black	■	IME14DIN57
Blue	■	IME14DIN58
Green	■	IME14DIN59
Ocean Blue	■	IME14DN511

IMS SIGNATURE SERIES ORTHODONTIC CASSETTES



DOUBLE-DECKER LARGE  
ORTHODONTIC CASSETTE

Holds up to 6 pliers, a Mathieu needle holder  
and 3 hand instruments  
(152 mm x 203 mm x 38 mm)

Colour coding available only for these cassettes

Red	■	IM5200-OR
Grey	■	IM5201-OR
White	□	IM5202-OR
Orange	■	IM5203-OR
Yellow	■	IM5205-OR
Purple	■	IM5206-OR
Blue	■	IM5208-OR
Green	■	IM5209-OR

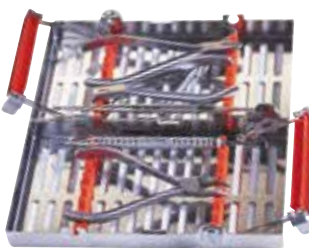


LARGE ORTHODONTIC  
CASSETTE

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

Colour coding available only for these cassettes

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



TWO-TIER SMALL  
ORTHODONTIC CASSETTE

Holds up to 4 pliers, a Mathieu needle holder  
and 2 hand instruments  
(114 mm x 203 mm x 38 mm)

Colour coding available only for these cassettes

Red	■	IM9140-OR
White	□	IM9142-OR
Orange	■	IM9143-OR
Yellow	■	IM9145-OR
Purple	■	IM9146-OR
Blue	■	IM9148-OR
Green	■	IM9149-OR

SIGNATURE SERIES TUBS

Together, procedure tubs and cassettes create the most efficient and organised system for managing instruments and consumable products. The time savings achieved by using IMS (Instrument Management System) cassettes and procedure tubs will allow the staff to spend time on more value added activities in the dental office.

Signature Series tubs are designed to match IMS cassette rail colors. Antimicrobial protection is integrated into the tub and tub components during the manufacturing process. This technology works by interrupting key cell functions that allow the microorganisms to function, grow and reproduce. \*Antimicrobial protection begins to work as soon as the microorganism comes into contact with the product surface and works continuously to inhibit the growth of microbes that can cause stain, odors and product degradation - for the lifetime of the product.



Red	■	IMS-1400	Includes: • Signature Series Tub • Tub Liner • Tub Divider (package of 8) • Single Tub Cup w/Cover • Double Tub Cup w/Cover • Divided Slide Tray • Locking Tub Cover
Grey	■	IMS-1401	
White	□	IMS-1402	
Orange	■	IMS-1403	
Purple	■	IMS-1404	
Yellow	■	IMS-1405	
Lavender	■	IMS-1406	
Black	■	IMS-1407	
Blue	■	IMS-1408	
Green	■	IMS-1409	
Ocean Blue	■	IMS-14011	

STANDARDIZES MATERIAL SET-UP FOR EVERY TYPE OF PROCEDURE

- Increases efficiency of materials management
- Eliminates time-consuming tray preparation for every procedure
- Tubs may be configured to meet your office needs or are available as a complete tub

PROCEDURE TUB COLORS MATCH HU-FRIEDY IMS CASSETTE RAIL COLORS

- Increases office organization and workflow efficiency
- Allows for quick identification of consumable products
- Provides esthetic integration with IMS cassettes

ALLOWS FOR STORAGE IN CENTRAL STERILIZATION OR EACH OPERATORY

- Tubs can be transported to the operator prior to each procedure, eliminating inventory management of materials in each operator



ORTHO RAILS FOR PLIERS



Partcode	Pcs/pack	Description
10 INSTRUMENTS		
RL-LP10RED	1	IMS Infinity Cassette Replacement Rail, red, ortho, 10 instruments
RL-LP10GRY	1	IMS Infinity Cassette Replacement Rail, gray, ortho, 10 instruments
RL-LP10WHT	1	IMS Infinity Cassette Replacement Rail, white, ortho, 10 instruments
RL-LP10ORG	1	IMS Infinity Cassette Replacement Rail, orange, ortho, 10 instruments
RL-LP10PRP	1	IMS Infinity Cassette Replacement Rail, purple, ortho, 10 instruments
RL-LP10YLW	1	IMS Infinity Cassette Replacement Rail, yellow, ortho, 10 instruments
RL-LP10LVN	1	IMS Infinity Cassette Replacement Rail, lavender, ortho, 10 instruments
RL-LP10BLK	1	IMS Infinity Cassette Replacement Rail, black, ortho, 10 instruments
RL-LP10BLU	1	IMS Infinity Cassette Replacement Rail, blue, ortho, 10 instruments
RL-LP10GRN	1	IMS Infinity Cassette Replacement Rail, green, ortho, 10 instruments
RL-LP10OCN	1	IMS Infinity Cassette Replacement Rail, ocean blue, ortho, 10 instruments

8 INSTRUMENTS		
RL-LP8RED	1	IMS Infinity Cassette Replacement Rail, red, ortho, 8 instruments
RL-LP8GRY	1	IMS Infinity Cassette Replacement Rail, gray, ortho, 8 instruments
RL-LP8WHT	1	IMS Infinity Cassette Replacement Rail, white, ortho, 8 instruments
RL-LP8ORG	1	IMS Infinity Cassette Replacement Rail, orange, ortho, 8 instruments
RL-LP8PRP	1	IMS Infinity Cassette Replacement Rail, purple, ortho, 8 instruments
RL-LP8YLW	1	IMS Infinity Cassette Replacement Rail, yellow, ortho, 8 instruments
RL-LP8LVN	1	IMS Infinity Cassette Replacement Rail, lavender, ortho, 8 instruments
RL-LP8BLK	1	IMS Infinity Cassette Replacement Rail, black, ortho, 8 instruments
RL-LP8BLU	1	IMS Infinity Cassette Replacement Rail, blue, ortho, 8 instruments
RL-LP8GRN	1	IMS Infinity Cassette Replacement Rail, green, ortho, 8 instruments
RL-LP8OCN	1	IMS Infinity Cassette Replacement Rail, ocean blue, ortho, 8 instruments

INSTRUMENTS CLIPS

With IMS Cassettes you can securely place instruments, such as scissors and needleholders in the lid of cassette.

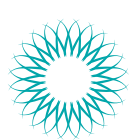
You can choose clips to secure hinged instruments (I1000) or ortho pliers (I3000).



I1000  
Two Clips  
for Scissors,  
Needle  
Holders etc.

I3000  
One Clip for  
Ortho Pliers





# CLEANING & CARE PRODUCTS ACCESSORIES



## INSTRUMENT LUBRICANTS

The instrument lubricants come in a convenient non-aerosol pump bottle.

- Penetrating Oil 8 oz (236 ml)

ILS

Removes light rust and corrosion to loosen problem joints
- Instrument Lubricant Spray 8 oz (236 ml)

ILS

Keeps hinged instruments moving freely
- Instrument Lubricant Spray (ILS) and Penetrating Oil (IPS) do not contain silicone.



## MAINTENANCE OF INSTRUMENTS

### SHINE reNEW

Effectively removes stain and rust, restoring the luster to instruments.

- For use on stainless steel, copper, brass, anodised aluminum and tungsten carbide
- Keeps hinged instruments moving freely by dissolving built-up residue.
- Eliminates the need for abrasive scrubs
- Quick and simple to use

- Instrument Wipes (20 wipe canister)

IMS-1455



## LILAC UTILITY GLOVES

Three pack of flocklined nitrile utility gloves for use when cleaning and processing instruments. Puncture and chemical resistant with a non-slip grip. Steam autoclavable to 250°F/121°C up to five times.

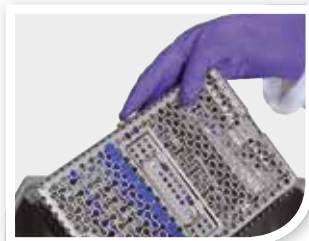
- Small (Size 7)

40-060
- Medium (Size 8)

40-062
- Large (Size 9)

40-064
- Extra Large (Size 10)

40-066



## ENZYMEX ULTRASONIC CLEANING SOLUTIONS

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. Can also be used as an evacuation system cleaner.

### ENZYMATIC PRECLEANER



#### ENZYMEX SPRAY GEL

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.

- 709 ml  
up to 450 Sprays

IMS-1229

### ENZYMEX DUAL ENZYME ULTRASONIC DETERGENT/PRESOAK



#### ENZYMEX LIQUID

A fast-acting, concentrated, liquid formula. Available in easy to pump quart, gallon and liquid unit dose configurations.

- Box of 40 Liquid Packets  
Makes 40 Gallons/151 liters

IMS-1222
- Quart Bottle  
Makes 32 Gallons/121 liters

IMS-1224
- Quart Pump

IMS-1224P
- Gallon Bottle  
Makes 128 Gallons/485 liters

IMS-1226
- Gallon Pump

IMS-1226P

#### ENZYMEX POWDER

- 1.76 lb/800 g Powder  
Makes 50 Gallons/189 liters

IMS-1230
- 6 containers of  
1.76 lb/800 g Powder  
Makes 300 Gallons/1,134 liters

IMS-1230C



### ENZYMEX PAX SINGLE USE PACKETS

- 32 Dissolvable Single-Use Powder Packets  
Makes 32 Gallons/121 liters

IMS-1232

- 96 Dissolvable Single-Use Powder Packets  
Makes 96 Gallons/363 liters. Just one packet per 3.8L of warm water.

IMS-1233



## IMS STERILISATION AND STORAGE PAPER

Disposable paper for sterile packing of the cassettes. After the packed cassette has been opened, the sterilisation paper may be used as a base, thus forming a predominantly sterile environment. Additionally, contaminated cotton wool rolls, gauze and similar items can be disposed of hygienically in this paper.



## Wrapping Techniques



## WRAP

Autoclave Wrap offers the best combination of softness and added strength.

600 x 600 mm for DIN and Container Cassettes (500 sheets)	<b>IMS-1210M</b>
600 x 600 mm for DIN and Container Cassettes (100 sheets)	<b>IMS-1210MH</b>
375 x 375 mm for 1/4 DIN Cassettes (1000 sheets)	<b>IMS-1211M</b>
375 x 375 mm for 1/4 DIN Cassettes (100 sheets)	<b>IMS-1211MH</b>
500 x 500 mm for 1/2 DIN Cassettes (500 sheets)	<b>IMS-1212M</b>
500 x 500 mm for 1/2 DIN Cassettes (100 sheets)	<b>IMS-1212MH</b>

## BAGETTE SELF-SEALING STERILISATION POUCHES

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.



89 mm x 229 mm 200 pouches - Loose instrument pouch. Fits 3-6 hand instruments	<b>IMS-1236</b>
190 mm x 330 mm 100 pouches - For Exam 5-instrument cassettes	<b>IMS-1237</b>
254 mm x 356 mm 100 pouches - For Small 8-10 instrument cassettes	<b>IMS-1238</b>
305 mm x 432 mm 100 pouches - For Large 16-20 instrument cassettes	<b>IMS-1239</b>
57 mm x 102 mm 200 pouches - Rubber dam clamps or burs	<b>IMS-1346</b>
70 mm x 229 mm 200 pouches - 1 handpiece or 1-3 hand instruments	<b>IMS-1347</b>
133 mm x 254 mm 200 pouches - 1 handpiece or multiple instruments	<b>IMS-1348</b>
330 mm x 508 mm 100 pouches - Oral Surgery Cassette; IMOSX Large Custom Cassette	<b>IMS-1345</b>

## IMS MONITOR TAPE



## IMS MONITOR TAPE

Strong 1,9 cm 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.

## PROCEDURE

Ortho	<b>IMS-1243</b>	C&B	<b>IMS-1252</b>
Archwire	<b>IMS-1244</b>	Cement	<b>IMS-1253</b>
Banding	<b>IMS-1245</b>	Composite	<b>IMS-1254</b>
Bonding	<b>IMS-1246</b>	Endo	<b>IMS-1255</b>
Restorative	<b>IMS-1247</b>	Exam	<b>IMS-1256</b>
Surgery	<b>IMS-1248</b>	Extraction	<b>IMS-1257</b>
X-Ray	<b>IMS-1249</b>	Perio	<b>IMS-1258</b>
Blank	<b>IMS-1250</b>	Prophy	<b>IMS-1259</b>
Amalgam	<b>IMS-1251</b>	Pedo	<b>IMS-1260</b>

Grey	<b>IMS-1262</b>	Red	<b>IMS-1266</b>
Orange	<b>IMS-1263</b>	Green	<b>IMS-1267</b>
Purple	<b>IMS-1264</b>	Blue	<b>IMS-1268</b>
Yellow	<b>IMS-1265</b>	Black	<b>IMS-1269</b>

## IMS TAPE DISPENSER

Rubber suction cups on the base secure dispenser to table or counter. Dispenser can also be mounted under cabinet.

IMS Tape Dispenser 27,3 x 15,9 x 19,4cm Holds up to 9 rolls of IMS Monitor Tape.	<b>IMS-1270</b>
IMS Mini Tape Dispenser 11,1 x 15,9 x 19,4 cm Holds up to 4 rolls of IMS Monitor Tape.	<b>IMS-1270H</b>

## IMS MONITOR TAPE LEAD FREE AND NOT MADE WITH NATURAL RUBBER LATEX

Safe for the environment, your staff and patients. Does not require special hazardous disposal. Easy to use and read results. For steam autoclaves. 55m per roll.

1,9 cm x 55 m	<b>IMS-1460</b>
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## STEAM STERILISATION INTEGRATORS (CLASS 5)



Steam Sterilisation Integrator is a Type 5 sterilisation monitor designed to react to all critical variables in the sterilisation cycle: time, temperature and presence of steam. The integrators Moving Front Indicator Technology ("ACCEPT" or "REJECT") gives a better indication of acceptance, no interpretation of color change needed. **Lead free and not made with natural rubber latex.**

100 strips/pack	<b>IMS-1241</b>
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## IMS STEAM STERILISATION INDICATORS (CLASS I)



Indicator strip verifies that steam sterilisation parameters of time and temperature have been met. Use one in each cassette or pouch and retain for office records.

250 per box	<b>IMS-1240</b>
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For more information about  
Hu-Friedy's Total Solutions visit  
**HU-FRIEDY.EU**

PREVENTIVE



RESTORATIVE



ORTHODONTIC



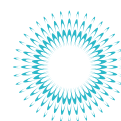
INSTRUMENT  
MANAGEMENT



ENDODONTIC



SURGICAL



POWER



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