

ENDURING PERFORMANCE BEAUTIFULLY CRAFTED

ORTHODONTIC PRODUCT CATALOG

How the best perform





SOLUTIONS OVERVIEW



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.

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.

IMMUNITY STEEL® ALLOY

Hu-Friedy uses only the highest-quality forged steel with an optimal blend of chromium and carbon. These elements, combined with exclusive Hu-Friedy processing, assure the creation of an outstanding instrument that will be resistant to corrosion given proper use and care.

ORBIT JOINT

Keeps instrument tips aligned, ensuring proper functionality and frustration-free use.

LASER ENGRAVING

Each instrument is laser engraved with the applicable wire sizes.

SATIN FINISH

All Hu-Friedy Orthodontic instruments are finished by hand to a satin luster; this non-glare surface keeps your instrument looking beautiful.

ERGONOMIC DESIGN

The size, shape, handle length and weight are balanced for optimum comfort and confidence.

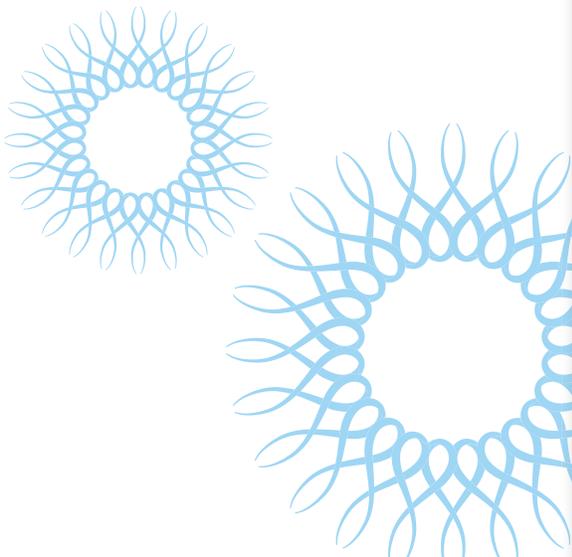


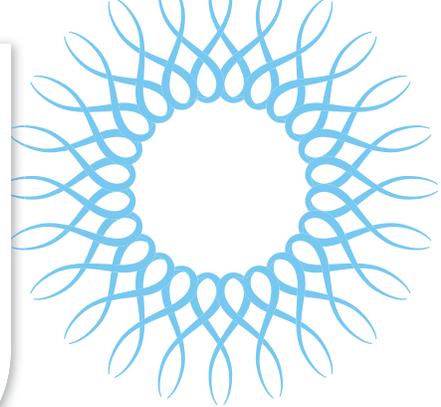
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CLEAR COLLECTION FOR CLEAR ALIGNERS

Hu-Friedy's Clear Collection consists of innovative instruments designed to accent, individualize and optimize 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

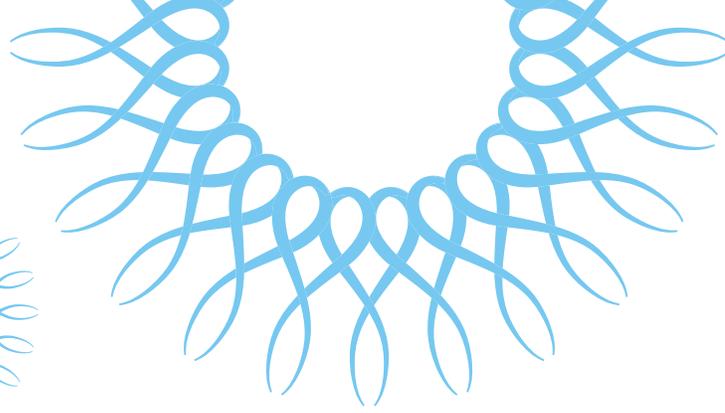
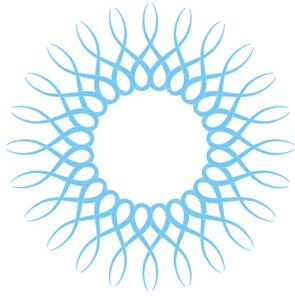
| 678-801

The Vertical emphasizes 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.



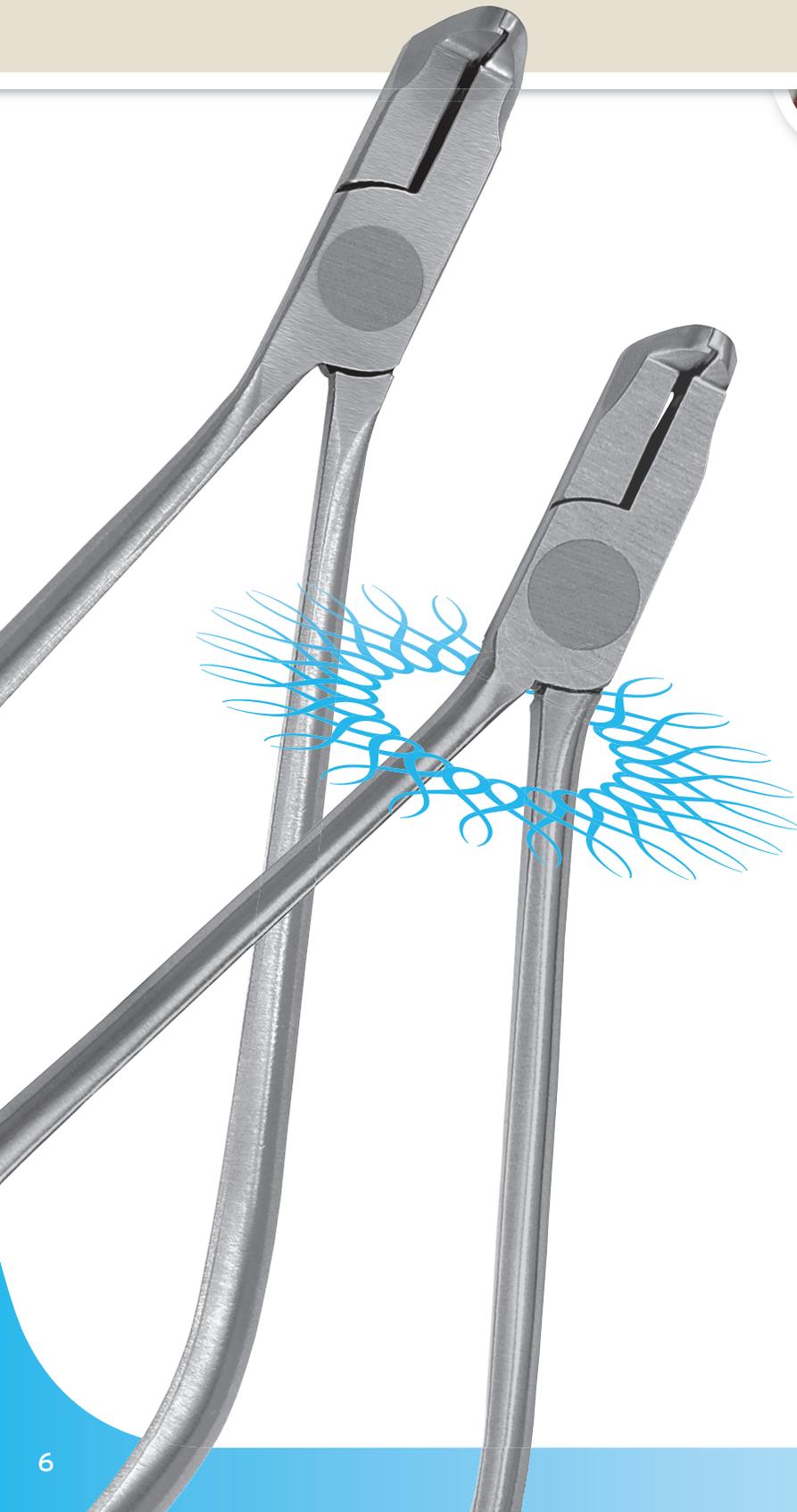
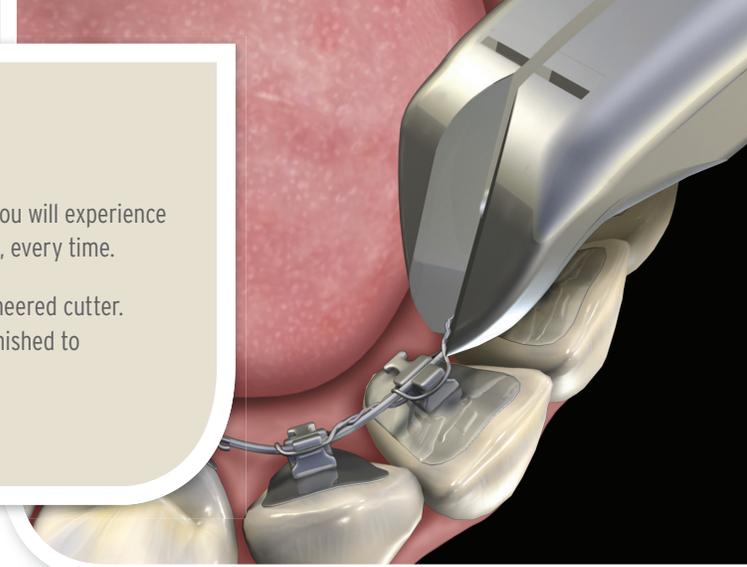
The half moon cutout can be placed on any tooth where bonded buttons or brackets are added for elastics or other biomechanics.



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 maximize cutting performance for the appropriate wire size.



Universal Cut & Hold Distal End Cutter

| 678-101

When used intraorally it safely holds the cut portion to be discarded. Patient comfort is enhanced by the smooth, tapered tip.

Wire size:
< = .012" to .021" x .025"
(.30 mm - .53 mm x .64 mm)

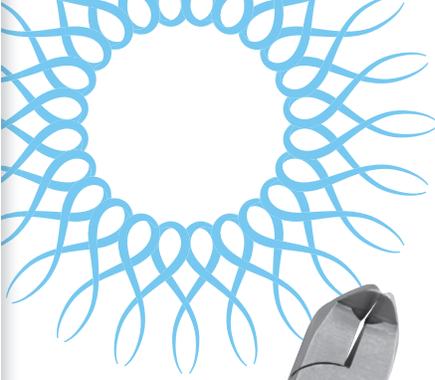


Universal Cut & Hold Distal End Cutter with Long Handle

| 678-101L

Same as 678-101, with long handle.

Wire size:
< = .012" to .021" x .025"
(.30 mm - .53 mm x .64 mm)



**Flush Cut Distal End
Cutter, No Hold**

| 678-102

An exceptional universal
cutter for all types of wires.

Wire size:
< = .021" x .025"
(.53 mm x .64 mm)



Mini Pin & Ligature Cutter

| 678-106

Slim profile is a plus in
difficult to access areas.
Designed to cut soft wire
pins and ligature wires.

Wire size:
< = .012" (.30 mm)



Hard Wire Cutter, 15°

| 678-103

15° offset tip enhances
access in difficult areas.
Designed to cut hard wires.

Wire size:
< = .022" x .028"
(.56 mm x .71 mm)



**Micro-Mini Pin
& Ligature Cutter**

| 678-107

Ultra slim profile is a plus in
the most difficult to access
areas. Designed to cut soft
wire pins and ligature wires.

Wire size:
< = .012" (.30 mm)



Hard Wire Cutter

| 678-104

Designed to cut hard wires.

Wire size:
< = .022" x .028"
(.56 mm x .71 mm)



**Micro-Mini Pin &
Ligature Cutter with
Long Handle**

| 678-107L

Same as 678-107,
with long handle.

Wire size: < = .012" (.30 mm)



Multi-Use Cutter

| 678-105

Designed to cut soft wire
pins and ligature wires.

Wire size:
< = .015" (.38 mm)

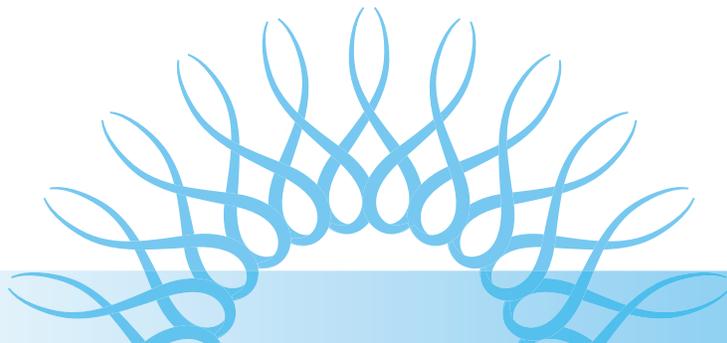


**Micro-Mini Pin &
Ligature Cutter, 15°**

| 678-109

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.

Wire size:
< = .012" (.30 mm)





Micro Cutter

| 678-110

Ligature cutter with reduced tip dimension. Designed to cut soft wire pins and ligature wires.

Wire size: $\leq .012''$ (.30 mm)

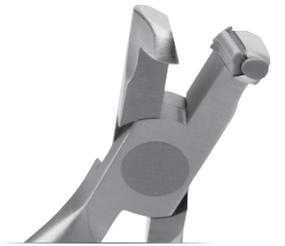


Slim Micro Cutter

| 678-500

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.

Wire size: .008" to .012" (.20 mm to .30 mm)



Flush Cut & Hold Distal End Cutter

| 678-111

Cuts and holds wire distally flush to the buccal tube while reducing debondings. Designed for all types of wires.

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



Lingual Distal End Cutter

| 678-700

Wire size: .012" to .018" (.30 mm to .45 mm)



Slim Flush Cut & Hold Distal End Cutter

| 678-113

Cuts and holds wire distally flush to the buccal tube while reducing debondings. Replaceable grey silicone rail holds the cut wire until released.

Wire size: .012" to .021" x .025" (.30 mm - .53 mm x .64 mm)

3 silicone replacement rails:

| 678-013



Lingual Pin & Lig Cutter

| 678-701

Wire size: $\leq .012''$ (.30 mm)



Slim Flush Cut & Hold Distal End Cutter

| 678-114

Cuts and holds wire distally flush to the buccal tube while reducing debondings. The slim design also helps to improve intraoral visibility. Replaceable blue silicone ring holds the cut wire until released.

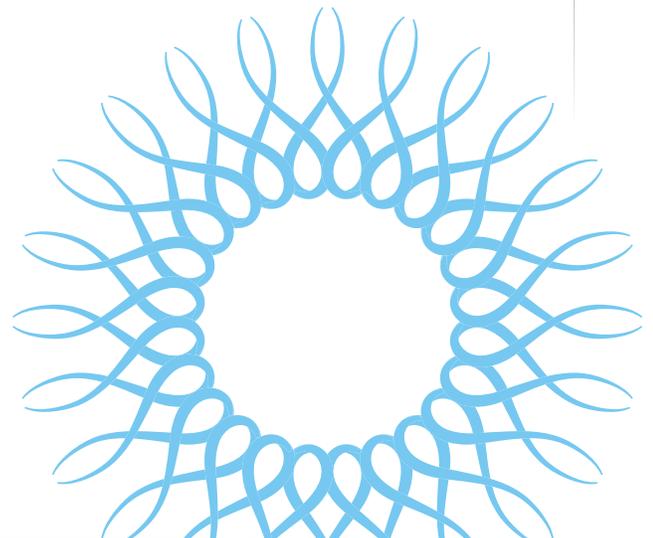
Wire size: $\leq .021''$ x .025" (.53 mm x .64 mm)

50 Replacement Silicone o-rings:

| 678-114R50

150 Replacement Silicone o-rings:

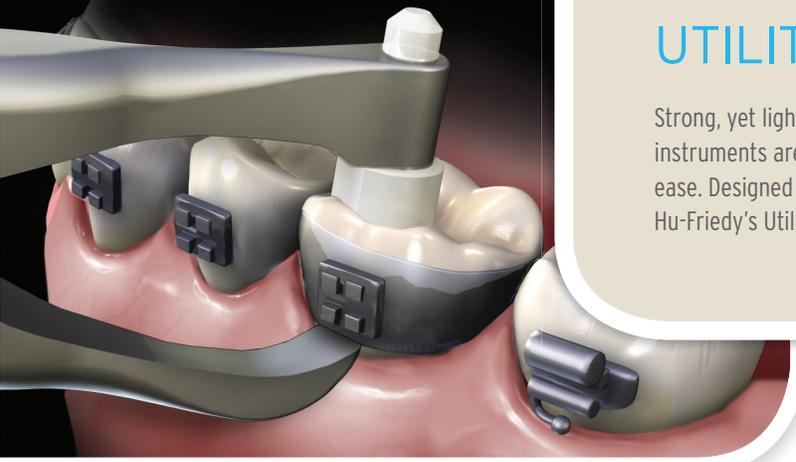
| 678-114R150





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.



Weingart Pliers

| 678-201

Versatile utility pliers with serrations. Tapered 32° angular design is convenient for placement and removal of archwires.

Wire size: < = .030" (.76 mm)



Slim Weingart Pliers

| 678-202

Slim, tapered 20° tips with serrations offer greater access and versatility.

Wire size: < = .030" (.76 mm)



Weingart Pliers with Long Handle

| 678-201L

Same as 678-201, with long handle.

Wire size: < = .030" (.76 mm)

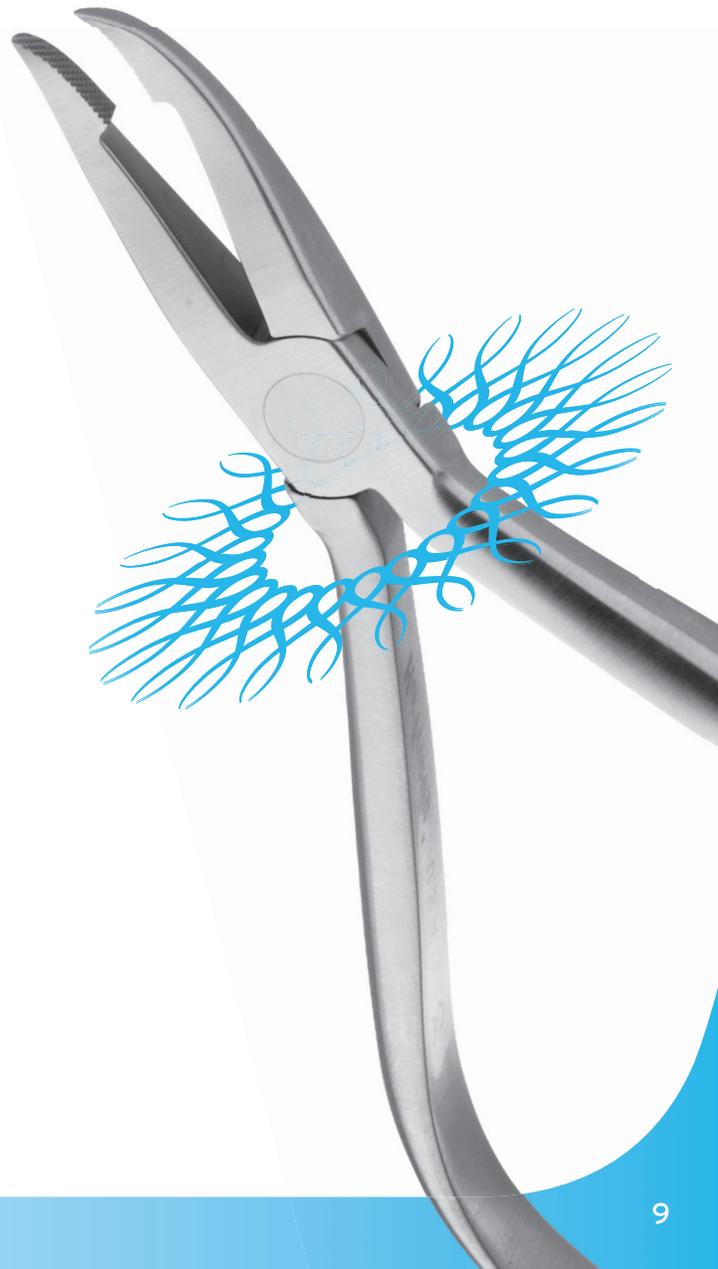


How Pliers

| 678-203

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

Wire size: < = .030" (.76 mm)





UTILITY PLIERS



How Pliers, Offset
| 678-204

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



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.

Replacement blade
| 678-001
1/4" Replacement pads
| 678-014A



Posterior Band Removing Pliers, Long
| 678-207

The alignment of the tip and occlusal pad is well suited for posterior band removal. Includes a 3/16" pad assembled in the pliers, with 1/4" loose in package.

1/4" Replacement Pads
| 678-014
3/16" Replacement Pads
| 678-036



Posterior Band Removing Pliers, Short
| 678-208

The offset alignment of the tip and occlusal pad is well suited for band removal. Includes a 3/16" pad assembled in the pliers, with 1/4" loose in package.

1/4" Replacement Pads
| 678-014
3/16" Replacement Pads
| 678-036



Force Module Separating Pliers
| 678-210

Used for placement of elastic separators.



Coon Style Ligature Tying Pliers
| 678-211

Most popular pliers for tying stainless ligature wires.
Wire size: < = .015" (.38 mm)



Tip Back Pliers
| 678-216

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.

Wire size: < = .022" x .025"
(.56 mm x .64 mm)



Bracket Removing Pliers
| 678-219

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.



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.

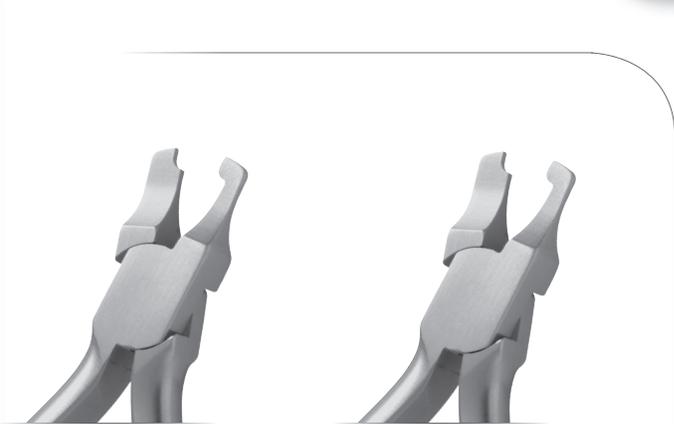


Steiner Tying Pliers

| 678-222

Ideal for tying stainless steel ligature wires.

Wire size: < = .015" (.38 mm)



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.



Ultra Slim Weingart Pliers

| 678-501

Wire size: < = .030" (.76 mm)



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. Includes a 3/16" pad assembled in the pliers, with 1/4" loose in package.

1/4" Replacement Pads

| 678-014

3/16" Replacement Pads

| 678-036



Lingual Weingart Pliers

| 678-702

Wire size: < = .030" (.76 mm)



Lingual Weingart Pliers, 90° Bend

| 678-702-90

Wire size: < = .030" (.76 mm)



Lingual Bracket Removing Pliers

| 678-703

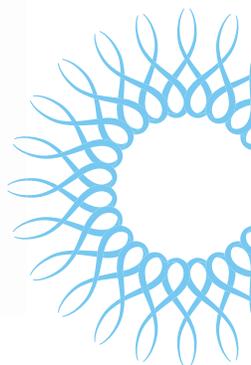
Lingual view of the Lingual Bracket Removing Pliers debonding the bracket



Lingual Debonding Pliers

| 678-709

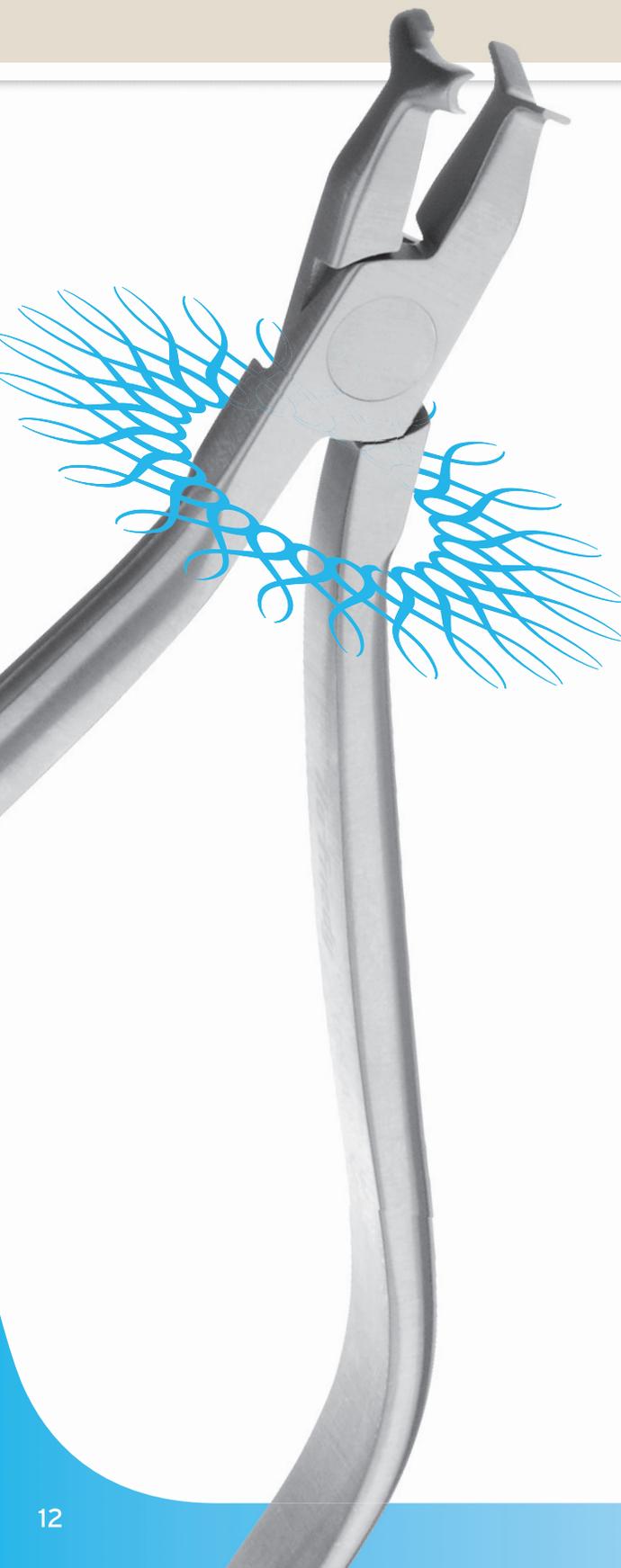
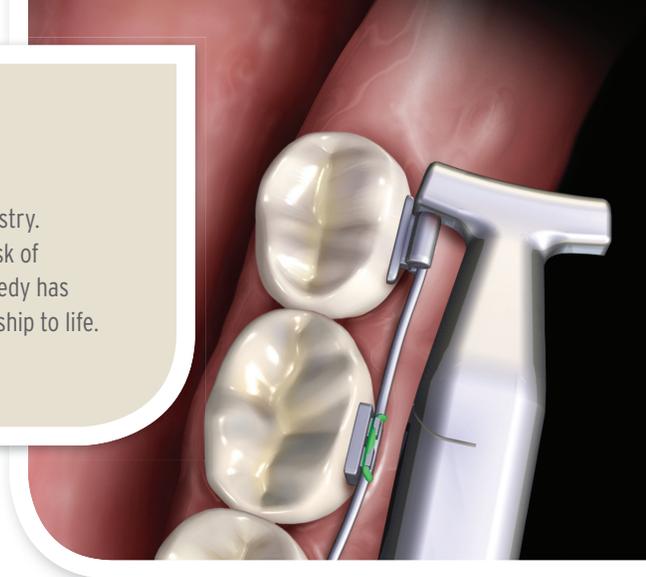
These pliers aid in lingual bracket removal. The remarkable spring action design requires minimal force to smoothly and quickly debond lingual brackets, while ensuring patient comfort is not compromised.





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

Versatile light wire bending pliers. Grooves assist with precise bending and closing of loops. Serrated surface grips wires.

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



Three Jaw Pliers

| 678-302

Useful for contouring and bending wire.

Wire size: $\leq .030''$ (.76 mm)



Omega Loop Forming Pliers

| 678-303

Graduated cone is designed to form precise omega loops: .045", .060" and .075"

Wire size: $\leq .022'' \times .025''$
(.56 mm x .64 mm)

Replacement Blade

| 678-002

1/8" Replacement Set Screw

| 678-018

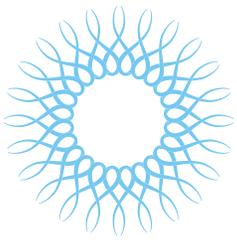


Bird Beak Pliers

| 678-304

Versatile loop forming pliers for round wires.

Wire size: $\leq .030''$ (.76 mm)



Light Wire Bird Beak Pliers with Groove

| 678-305

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: < = .020" (.51 mm)



Tweed Loop Forming Pliers

| 678-306

Loop forming pliers with .055", .075" and .090" diameters for creating bull and helical loops in wires.

Wire size: < = .022" x .025" (.56 mm x .64 mm)



Arch Bending Pliers

| 678-307

Designed for placing first, second and third order bends, .050" blade width.

Wire size: < = .022" x .025" (.56 mm x .64 mm)



Tweed Pliers, Slim

| 678-307S

Designed for placing first, second and third order bends, .025" blade width.

Wire size: < = .022" x .025" (.56 mm x .64 mm)



Rectangular Arch Bending Pliers

| 678-308

Designed for placing first, second and third order bends, .070" blade width.

Wire size: < = .022" x .025" (.56 mm x .64 mm)



Lingual Arch Forming Pliers

| 678-309

Designed to create double back and triple back bends in .030" and .036" lingual arch wires.

Wire size: < = .036" (.91 mm)



Hollow Chop Contouring Pliers

| 678-310

Perfect for subtle contouring of arch wires.

Wire size: < = .030" (.76 mm)



O'Brien Pliers

| 678-311

For precise forming of small helical loops and intraoral tip back bends.

Wire size: < = .020" (.51 mm)



Mini Three Jaw Pliers

| 678-312

Tips are rounded for ease of contouring light wire.

Wire size: < = .030" (.76 mm)



WIRE FORMING PLIERS



General Contouring Pliers

| 678-315

Tapered, serrated pliers for ease of contouring archwires.

Wire size: $\leq .021'' \times .025''$
(.53 mm x .64 mm)



Marcotte Looping Pliers

| 678-316

For precise forming of helical loops and T loops. No right angles. Prevents stress fracture of wires.

Wire size: $\leq .022'' \times .025''$
(.56 mm x .64 mm)



Hollow Chop Pliers

| 678-317

Same as 678-310, with reduced radius.

Wire size: $\leq .030''$ (.76 mm)



Light Wire Bird Beak Pliers

| 678-318

A longer cone than a standard bird beak is useful for forming precise loops in light wire.

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



Nance Loop Forming Pliers

| 678-319

For precise forming of loops in four lengths: 3, 4, 5 and 6 mm. Groove at base aids in closing loops.

Wire size: $\leq .022''$ (.56 mm)



Adams Pliers

| 678-320

Excellent precise right angle bends and appliance application.

Wire size: $\leq .040''$ (1.02 mm)



V-Stop Pliers

| 678-321

Places V bend in archwires, including nickel titanium, to prevent archwire from traveling.

Wire size: $\leq .022'' \times .025''$
(.56 mm x .64 mm)



NiTi Three Jaw Pliers

| 678-322

Designed for forming and contouring of all archwire, especially for NiTi.

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

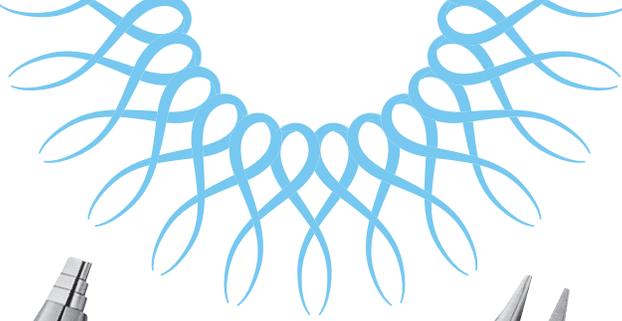


Optical Pliers

| 678-323

Excellent for forming helical closing loops and arch adjustments.

Wire size: $\leq .022'' \times .025''$
(.56 mm x .64 mm)



Old Style Loop Pliers

| 678-324

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

Wire size: <= .022" x .025"
(.56 mm x .64 mm)



Bird Beak Pliers with Cutter

| 678-325

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

Wire size: <= .022" x .025"
(.56 mm x .64 mm)



Long Tapered Bird Beak Pliers

| 678-326

Bends a variety of smooth loops.

Wire size: <= .022" x .025"
(.56 mm x .64 mm)



**Hammerhead®
NiTi Tie-Back Pliers**

| 678-327

Multi-use NiTi bender, no heat.

Wire size: <= .025" (.64 mm)



**Torquing Pliers with
.016" / .018" key**

| 678-328-20

**Torquing Pliers with
.019" / .022" key**

| 678-328-21

.016" / .018" Replacement Key

| 678-020

.019" / .022" Replacement Key

| 678-021



Step Pliers

| 678-340

Step size = 1/2 mm

| 678-341

Step size = 3/4 mm

| 678-342

Step size = 1 mm



**Slim Hammerhead
NiTi Pliers**

| 678-502

For NiTi wire only, no heat.

Wire size: <= .025" (.64 mm)



**Lingual Hammerhead
NiTi Pliers**

| 678-704

Wire size: <= .025" (.64 mm)



**Lingual Hammerhead
NiTi Pliers with Serrations**

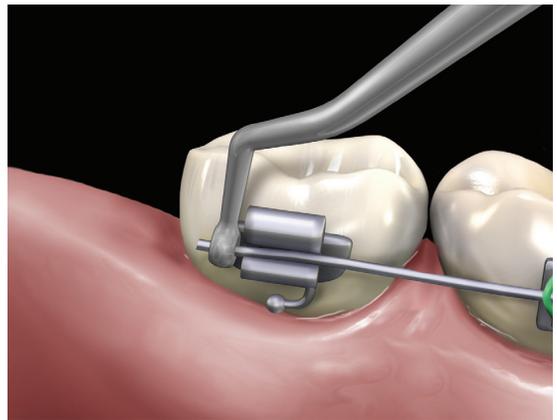
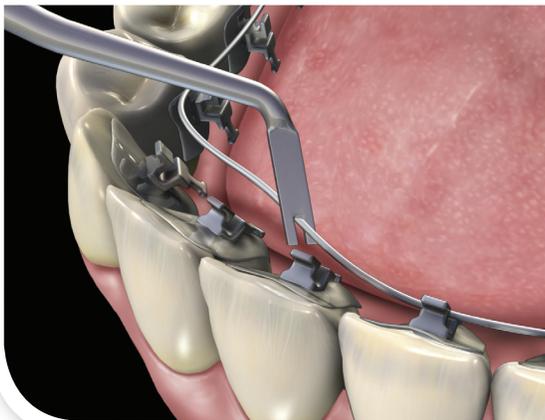
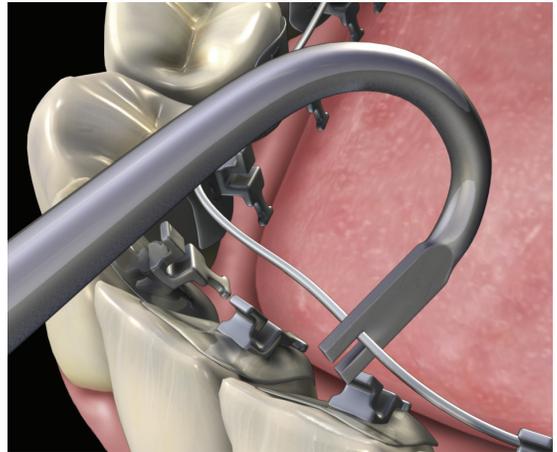
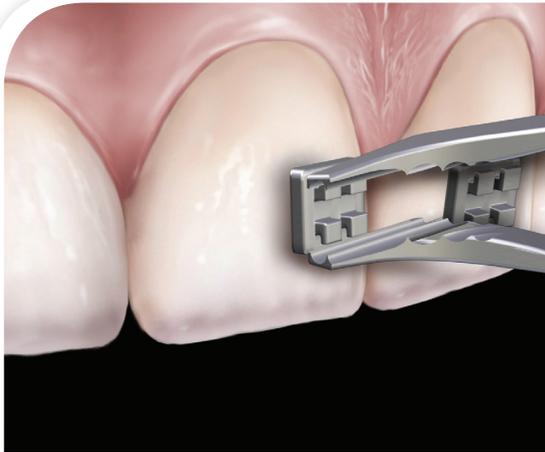
| 678-704SER

Wire size: <= .025" (.64 mm)



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.



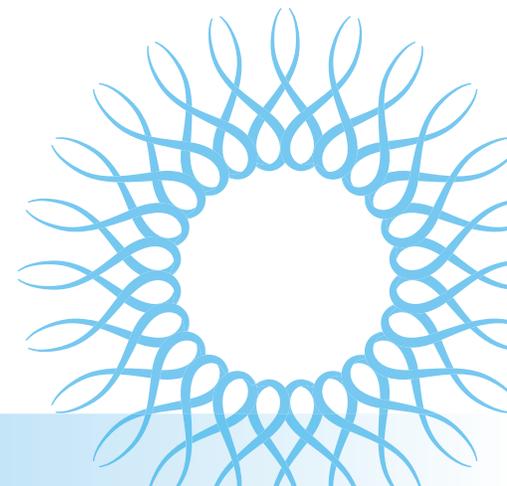
Tweezers

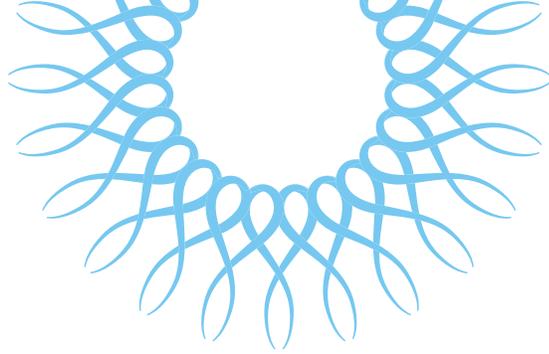
Directors

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

Wire size:
< = .021" x .025"
(.53 mm x .64 mm)



Lingual
Ligature
Director
| 678-706

Wire size:
< = .021" x .025"
(.53 mm x .64 mm)



HAND INSTRUMENTS



Lingual Ligature Director, U Shape

| 678-707

Wire size:
< = .021" x .025"
(.53 mm x .64 mm)

Lingual Torquing Key/Picker

| 678-708

Wire size:
< = .018"
(46 mm)

Scaler/Band Pusher

| 678-904

Ligature Director Scaler

| 678-905

Dull Scaler/Band Pusher

| 678-906

Small Plugger/Picker

| 678-907

Ligature Director/Band Pusher

| 678-908



Large
Plugger/
Picker
| 678-909



Dull
Scaler
| 678-910



Dull
Scaler
| 678-911



Ligature
Director/
Band Pusher
| 678-912



Dull
Scaler
| 678-913



Scaler/
Picker
| 678-914



Picker/
Ligature
Director
| 678-916



HAND INSTRUMENTS



**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/Scaler
| BPS2**

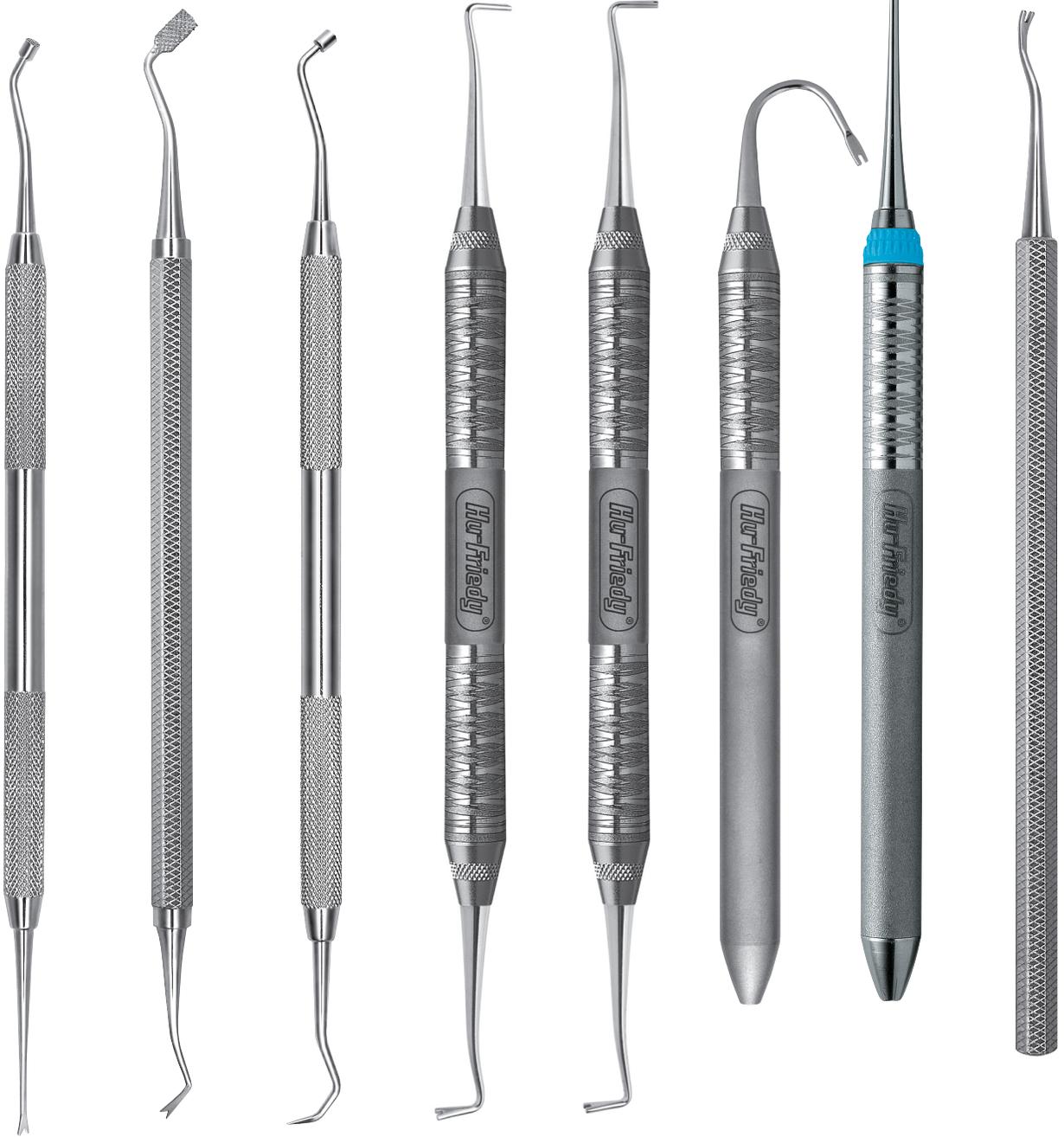
Same as BPS1 except the working end of the band pusher is shorter.

**Fillion Explorer/Ligature Director
| FE/LD**

Ideal for placing and removing elastic ligatures with lingual brackets.

**Ligature Director
| LD1**

**Ligature Director
| LDG2**



Ligature Director/
Plugger
| LDP

Ligature Director
Tucker
| LDT

Plugger/
Ligature
Picker
| PLPK

Lingual
Ligature
Director,
.018"
| SNLD1

Lingual
Ligature
Director,
.025"
| SNLD2

Lingual
Torquing
Key
| TK018

Designed for proper wire placement and improved torque expression in an .018" slot lingual system.

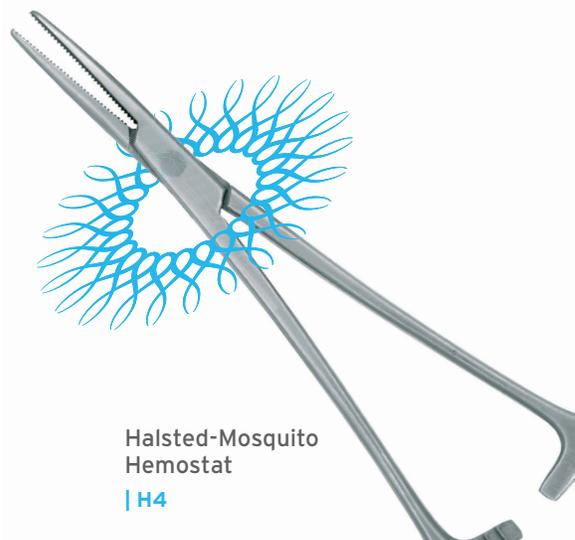
Straight
.020"
Applicator
| TK020S

Single End
Ligature
Director
| WBI-M/R

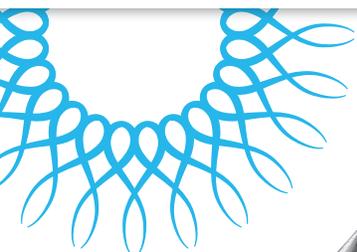


MATHIEUS, SCISSORS & HEMOSTATS

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.



Halsted-Mosquito Hemostat
| H4



Crown & Gold Scissors Curved
| SCGC

Crown & Gold Scissors Pedo
| SCGCP

Crown & Gold Scissors Straight
| SCGS

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



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.

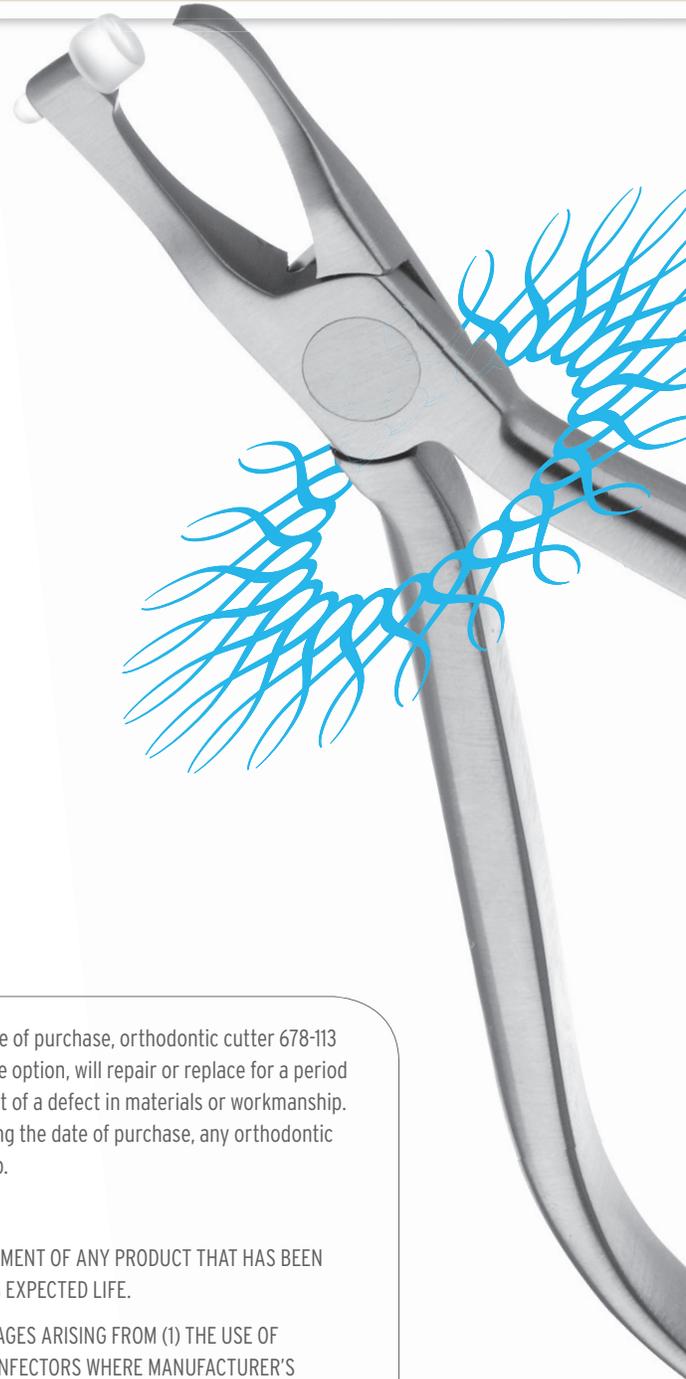
Lingual Mathieu Pliers
| 678-705



ORTHO ACCESSORIES AND REFERENCE

Replacement Parts

Replacement Blade for 678-206 Quantity: 1	678-001
Replacement Blade for 678-303 Quantity: 1	678-002
Silicone Inserts for 678-111 Quantity: 3	678-011
Silicone Inserts 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 Pads for 678-206 Quantity: 6	678-014A
1/8" Replacement Set Screw for 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 Pads for 678-207, 678-208, 678-503 Quantity: 6	678-036
Silicone O-Rings for 678-114 Quantity: 50	678-114R50
Silicone O-Rings for 678-114 Quantity: 150	678-114R150



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.

Limitations On All Warranties

HU-FRIEDY DISCLAIMS LIABILITY AND IS NOT RESPONSIBLE FOR THE PERFORMANCE OR REPLACEMENT OF ANY PRODUCT THAT HAS BEEN MISUSED, TAMPERED WITH, MODIFIED, RETIPPED OR REFITTED IN ANY MANNER OR IS BEYOND ITS EXPECTED LIFE.

HU-FRIEDY DISCLAIMS LIABILITY, UNDER ANY APPLICABLE WARRANTY OR OTHERWISE, FOR DAMAGES ARISING FROM (1) THE USE OF COMMERCIAL/RESIDENTIAL GRADE WASHERS; (2) THE USE OF DENTAL AUTOMATED WASHER-DISINFECTORS WHERE MANUFACTURER'S PROCESSING GUIDELINES ARE NOT FOLLOWED; (3) THE USE OF CLEANING SOLUTIONS, CHEMICALS AND/OR PROCEDURES THAT ARE CONTRARY TO HU-FRIEDY'S RECOMMENDATIONS; AND/OR (4) IMPROPER SETUP AND/OR INSTALLATION OF ANY PRODUCT.

THE EXPRESS WARRANTIES DESCRIBED HEREIN ARE THE EXCLUSIVE WARRANTIES AND ARE PROVIDED INSTEAD OF ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EXCEPT WARRANTIES OF TITLE AND INFRINGEMENT. EXCEPT AS SET FORTH HEREIN, DAMAGES FROM BREACH OF SUCH WARRANTIES ARE LIMITED TO THE COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AT HU-FRIEDY'S SOLE OPTION. CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM BREACH OF ANY APPLICABLE EXPRESS OR IMPLIED WARRANTIES ARE HEREBY EXCLUDED.

See Hu-Friedy.com for complete warranty information.



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 sterilized. They should be washed with a non-corrosive, low sudsing neutral detergent. Hu-Friedy strongly recommends the use of Enzymax® dual enzyme detergent to best protect and extend the life of the instruments. Instrument cleaning can be accomplished by ultrasonic cleaning, which is the method of choice to prevent hand injuries caused by hand scrubbing.

INSTRUMENT STERILIZATION

Sterilization is a process that kills microorganisms. There are three common methods of heat sterilization used in the dental office that can be verified by spore testing (steam autoclave, dry heat, and chemical vapor). Sterilize hinged instruments in the open position. For a comparison of heat sterilization methods, visit our website at Hu-Friedy.com.

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. With average use, Hu-Friedy recommends sharpening your cutters every 6 to 9 months.

TROUBLESHOOTING

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

DO'S & DON'TS OF PROCESSING INSTRUMENTS

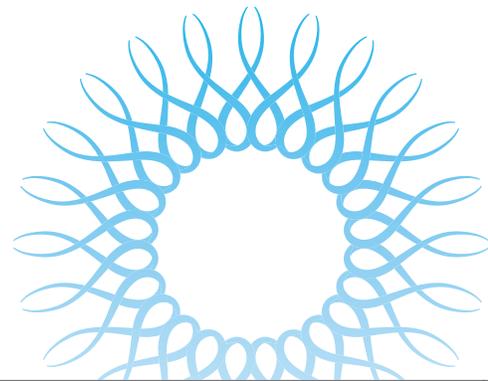
For best results, Hu-Friedy recommends the use of ultrasonics for instrument cleaning and steam autoclaves for sterilization. Never use tartar remover on instruments. For light stains, we recommend Shine reNEW™ Stain and Rust Remover. Never spray surface disinfectant near instruments. Use only approved 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.

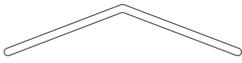
Stainless steel should not be exposed to the following chemicals: Sodium Hypochlorite (household bleach), Tartaric Acid (stain and tartar remover), Aluminum Chloride, Barium Chloride, Bichloride of Mercury, Calcium Chloride, Carbolic Acid, Chlorinated Lime, Citric Acid, Dakin's Solution, Ferrous Chloride, 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.





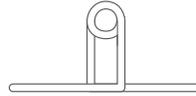
WIRE BENDS



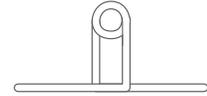
| 678-302
Three Jaw Pliers



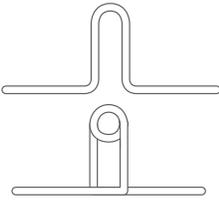
| 678-303
Omega Loop Forming Pliers



| 678-304
Bird Beak Pliers



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



| 678-306
Tweed Loop Forming Pliers



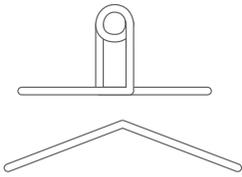
| 678-307
Arch Bending Pliers



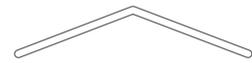
| 678-308
Rectangular Arch Bending Pliers



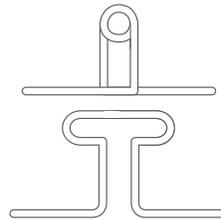
| 678-309
Lingual Arch Forming Pliers



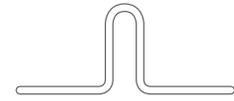
| 678-311
O'Brien Pliers



| 678-312 **| 678-322**
Mini Three NiTi Bender,
Jaw Pliers 3-Prong



| 678-316
Marcotte Pliers



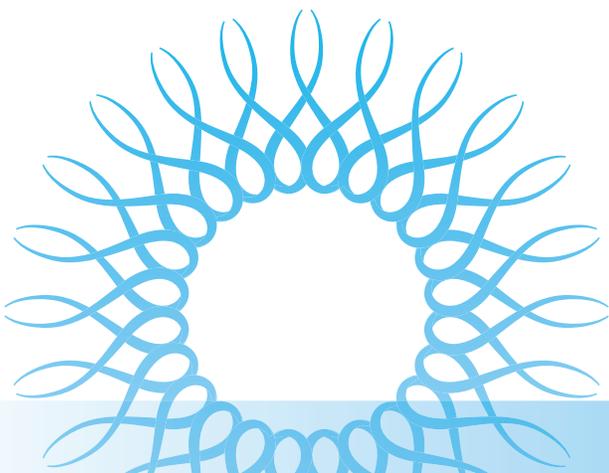
| 678-319
Nance Loop Forming Pliers



| 678-320
Adams Pliers



| 678-321
V-Stop Pliers





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



#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 CASSETTE

Exterior Dimensions 1.5" x 8" x 1.25"
(38 mm x 203 mm x 32 mm)



Red	■	IMN30HU0
Gray	■	IMN30HU1
White	□	IMN30HU2
Orange	■	IMN30HU3
Purple	■	IMN30HU4
Yellow	■	IMN30HU5
Lavender	■	IMN30HU6
Black	■	IMN30HU7
Blue	■	IMN30HU8
Green	■	IMN30HU9
Ocean Blue	■	IMN30HU11

Holds 2 ultrasonic inserts or 1 handpiece.

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.





HU-FRIEDY'S INSTRUMENT MANAGEMENT SYSTEM

Hu-Friedy's Instrument Management System, IMS, is the most comprehensive, reliable and complete instrument processing and infection control system on the market today. Your instruments are protected and secure so they last longer. Your staff benefits because instrument handling is decreased. Hu-Friedy's long lasting, low maintenance stainless steel cassettes hold each procedural set-up through the entire cleaning, sterilization, storage and presentation cycle. Orthodontic practices see anywhere from 80 to 120 patients a day. IMS was designed for you and your busy practice—it's adaptable, flexible, easy, safe and efficient.



1. **Chairside:** Patient Preview & Presentation

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

2. **Cleaning:** Processed & Prepped

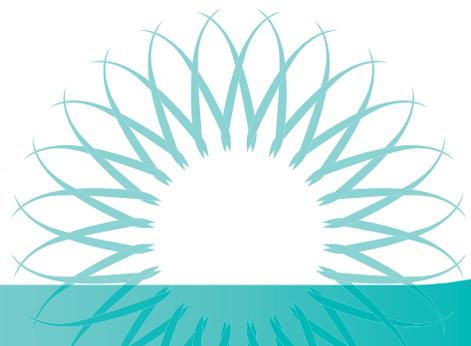
- Instruments are kept together throughout cleaning, rinsing and drying, reducing the potential for breakage or loss.
- Minimizes handling of instruments, reducing the chance for sharps injuries.

3. **Sterilization:** Wrapped & Ready

- Complete procedures are packaged in IMS Sterilization Wrap and placed in autoclave together to help reduce consumable usage.
- Reduced handling of instruments provides safer protocol and minimizes liability.

4. **Storage:** Neat & Complete

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





Hu-Friedy's Instrument Management System is the most comprehensive, reliable and complete instrument processing and infection control system on the market today. Use IMS cassettes to hold instruments and accessories in place throughout the entire Instrument Management Cycle. Once a chairside procedure is finished, contact with contaminated instruments is virtually eliminated. IMS combines sterilization, storage and organization of instruments in one integrated system. Use IMS to: improve staff and patient safety, maximize office efficiency, streamline instrument organization and protect instruments from breakage.

Small Thin Orthodontic Cassette

Exterior Dimensions 7" x 8" x 0.75" (178 mm x 203 mm x 19 mm)
Holds up to 4 pliers and 3 hand instruments

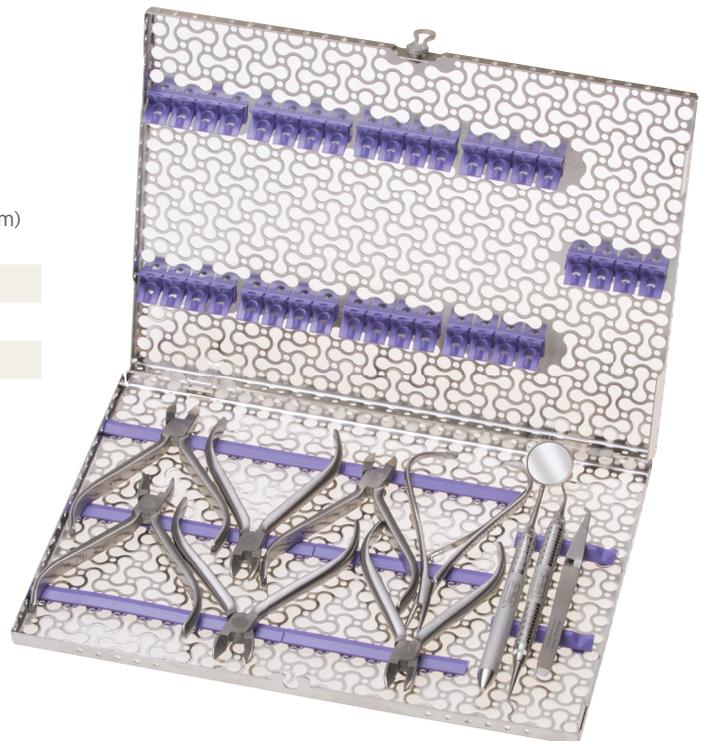
Purple	■	IMNORTHS4
Blue	■	IMNORTHS8
Green	■	IMNORTHS9



Large Thin Orthodontic Cassette

Exterior Dimensions 8" x 11" x 0.75" (203 mm x 280 mm x 19 mm)
Holds up to 7 pliers and 4 hand instruments

Purple	■	IMNORTHL4
Blue	■	IMNORTHL8
Green	■	IMNORTHL9





Double-Decker® Large Orthodontic Cassette

Exterior Dimensions 6" x 8" x 1.5" (152mm x 203mm x 38mm)
Holds up to 6 pliers, 1 Mathieu needle holder and 3 hand instruments without accessory area.

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

Double-Decker® Small Orthodontic Cassette

Exterior Dimensions 4.5" x 8" x 1.5" (114 mm x 203 mm x 38 mm)
Holds up to 3 pliers, a Mathieu needle holder and 2 hand instruments

Red	■	IMN9140-O
Gray	■	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

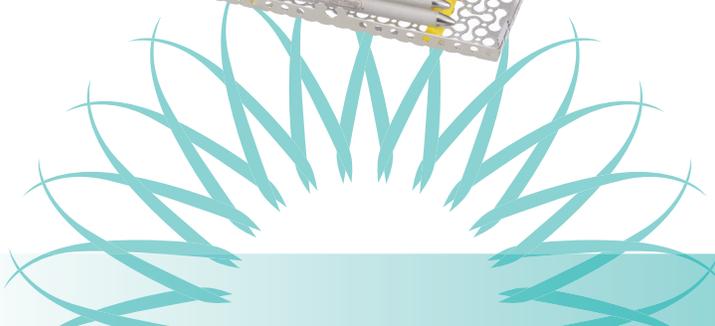
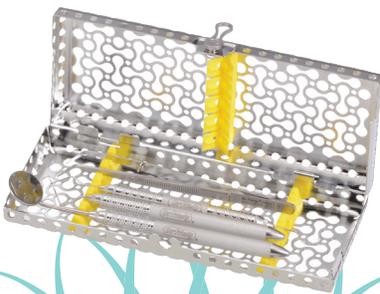
*Optional instrument rack available. Part code IMN914x0A



Exam Cassette - 5 Instruments

Exterior Dimensions 3" x 8" x 1.25"
(76 mm x 203 mm x 32 mm) Holds 5 instruments.

Red	■	IMN6050
Gray	■	IMN6051
White	□	IMN6052
Orange	■	IMN6053
Purple	■	IMN6054
Yellow	■	IMN6055
Lavender	■	IMN6056
Black	■	IMN6057
Blue	■	IMN6058
Green	■	IMN6059
Ocean Blue	■	IMN60511





INSTRUMENT MANAGEMENT SYSTEM

BAGETTE® SELF-SEALING STERILIZATION POUCHES

Bagette® Self-Sealing Sterilization Pouches are constructed with durable materials and thick seals. Built-in external and internal quality control indicators relay accurate time and temperature verification, allowing you peace of mind. The full line of pouches include those custom fit especially for our cassettes and smaller sizes for all other sterilization needs.



Size	QTY	Suitable Contents	Part Code
2-1/4" x 4"	200	Rubber Dam Clamps or Burs	IMS-1346
2-3/4" x 9"	200	1 Handpiece or 1-3 Hand Instruments	IMS-1347
3-1/2" x 9"	200	2-5 Hand Instruments	IMS-1236
5-1/4" x 10"	200	Handpiece or Multiple Instruments	IMS-1348
7-1/2" x 13"	100	Exam Cassette*	IMS-1237
10" x 14"	100	Small Cassette*	IMS-1238
12" x 17"	100	Large Cassette*	IMS-1239
13" x 20"	100	Oral Surgery Cassette*	IMS-1345

*Please see Hu-Friedy.com for complete list of suitable cassettes for this pouch.

IMS® CASSETTE WRAP

IMS Cassette Wrap is engineered to withstand the harsh conditions of sterilization. Our unique compilation of textiles is designed to be strong and soft for easy wrapping and durability. This low-lint, memory free wrap is available in two grades to meet your needs.

Autoclave Wrap

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

24" x 24" (610 x 610 mm) For Large Cassettes 500 Sheets	IMS-1210
20" x 20" (508 x 508 mm) For Large Cassettes 500 Sheets	IMS-1212
15" x 15" (380 x 380 mm) For Small Cassettes 1,000 Sheets	IMS-1211
12" x 12" (305 x 305 mm) For Small Cassettes 1,000 Sheets	IMS-1213

Universal Wrap

Universal Wrap provides great performance at a lower cost.

24" x 24" (610 x 610 mm) For Large Cassettes 500 Sheets	IMS-1214
20" x 20" (508 x 508 mm) For Large Cassettes 500 Sheets	IMS-1216
15" x 15" (380 x 380 mm) For Small Cassettes 1,000 Sheets	IMS-1215
12" x 12" (305 x 305 mm) For Small Cassettes 1,000 Sheets	IMS-1217

Note: Hu-Friedy wrap is also available in packs of 100 sheets. Add "H" to the end of the part code. Wrap is FDA cleared and intended for single use ONLY.



SPORECHECK 24 HOUR IN-OFFICE TEST

The SporeCheck 24 Hour In-Office Test® biological monitoring system provides reliable results in 24 hours, while being in compliance with local, state and federal guidelines.

SporeCheck Starter Kit | [IMS-1376](#)

Contains: Dry Block Incubator with built-in vial crusher, record notebook and 1 box SporeCheck Biological Indicators, 25 count

SporeCheck Biological Indicator Vials, 25 count | [IMS-1373](#)





ENZYMAX® 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. Multi-purpose applications including ultrasonic detergent, presoak, linen presoak, and evacuation cleaner.

Enzymax Liquid

Box of 40 Liquid Packets Makes 40 Gallons/151 liters	IMS-1222
10 boxes of 40 Liquid Packets Makes 400 Gallons/1,510 liters	IMS-1222C
Quart Bottle Makes 32 Gallons/121 liters	IMS-1224
12 Quart bottles Makes 384 Gallons/1,452 liters	IMS-1224C
Quart Pump	IMS-1224P
Gallon Bottle Makes 128 Gallons/485 liters	IMS-1226
Gallon Pump	IMS-1226P



Enzymax 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

Enzymax 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	IMS-1233

Enzymax 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.

24 fl. oz/709 ml 450 Sprays	IMS-1229
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INSTRUMENT LUBRICANTS

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

Penetrating Oil 8 oz (236 ml) Removes light rust and corrosion to loosen problem joints	IPS
Instrument Lubricant Spray 8 oz (236 ml) Keeps hinged instruments moving freely	ILS
Instrument Lubricant Spray (ILS) and Penetrating Oil (IPS) do not contain silicone.	

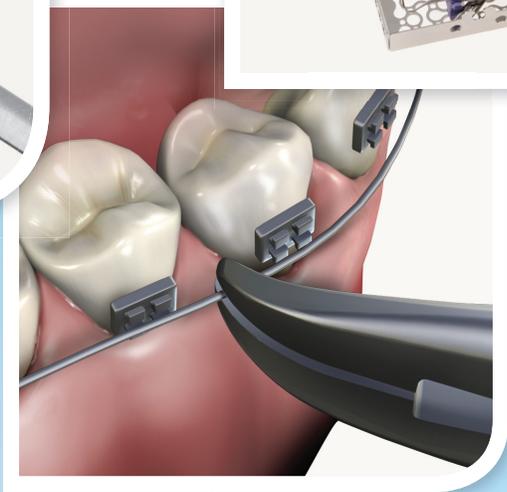
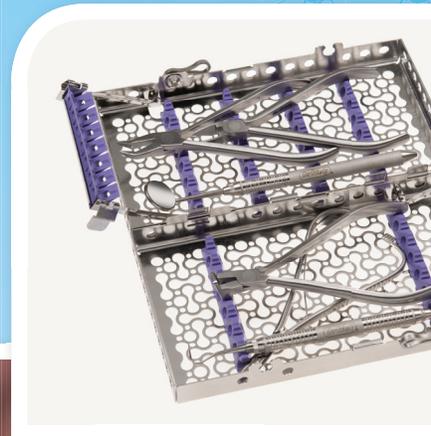


LILAC UTILITY GLOVES

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



For more information about
Hu-Friedy's Total Solutions visit
HU-FRIEDY.COM

FPO BOX

PERIODONTAL	RESTORATIVE	ORTHODONTIC	INSTRUMENT MANAGEMENT	ENDODONTIC	SURGICAL	ULTRASONIC SCALING

Hu-Friedy Mfg. Co., LLC: 3232 N. Rockwell St. | Chicago, IL 60618 | USA
Telephone: 1-800-Hu-Friedy (1-773-975-6100) | Website: Hu-Friedy.com

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