<table>
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<th>ORTHODONTICS</th>
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## ARCHWIRE SET-UP

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<tr>
<td>Slim Weingart Pliers</td>
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<tr>
<td>Slim Direct Bond Bracket</td>
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<td>Bird Beak With Cutter</td>
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<td>Mathieu Pliers</td>
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## DEBANDING/DEBONDING SET-UP

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<tr>
<td>Weingart Pliers</td>
<td>678-201</td>
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<tr>
<td>Slim Band Removing Pliers</td>
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<tr>
<td>Angulated Bracket Removing</td>
<td>678-220L</td>
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<td>Pliers</td>
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## BANDING SET-UP

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<td>Weingart Pliers</td>
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<tr>
<td>Band Seating Pliers</td>
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<td>Band Pusher/Dull Scaler</td>
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## LINGUAL SET-UP

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<td>Lingual Pin &amp; Lig Cutter</td>
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<td>Lingual Weingart Pliers</td>
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<td>Lingual Bracket Removing Pliers</td>
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<tr>
<td>Lingual Hammerhead NiTi Pliers</td>
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<td>Lingual Mathieu Pliers</td>
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<tr>
<td>Lingual Ligature Director/Picker</td>
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## CLEAR COLLECTION SET-UP

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<td>The Tear Drop</td>
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<tr>
<td>The Vertical</td>
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<tr>
<td>The Horizontal</td>
<td>678-802</td>
</tr>
<tr>
<td>The Hole Punch</td>
<td>678-803</td>
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* See Section A for exact product code number for cassette color desired.
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.

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.

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.

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.
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 Vertical**

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

The Hole Punch is positioned at the gingival margin with one-half of the “circle” of the punch over the plastic of the aligner.
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:
\( \leq 0.12" \) to \( 0.021" \times 0.025" \)
(\( 0.30 \text{ mm} - 0.53 \text{ mm} \times 0.64 \text{ mm} \))

Universal Cut & Hold Distal End Cutter with Long Handle
| 678-101L
Same as 678-101, with long handle.
Wire size:
\( \leq 0.12" \) to \( 0.021" \times 0.025" \)
(\( 0.30 \text{ mm} - 0.53 \text{ mm} \times 0.64 \text{ mm} \))
Flush Cut Distal End Cutter, No Hold  
**| 678-102**  
An exceptional universal cutter for all types of wires.  
Wire size:  
\( \leq 0.021” \times 0.025” \)  
(.53 mm x .64 mm)

Multi-Use Cutter  
**| 678-105**  
Designed to cut soft wire pins and ligature wires.  
Wire size:  
\( \leq 0.015” \)  
(.38 mm)

Hard Wire Cutter, 15°  
**| 678-103**  
15° offset tip enhances access in difficult areas. Designed to cut hard wires.  
Wire size:  
\( \leq 0.022” \times 0.028” \)  
(.56 mm x .71 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:  
\( \leq 0.012” \)  
(.30 mm)

Hard Wire Cutter  
**| 678-104**  
Designed to cut hard wires.  
Wire size:  
\( \leq 0.022” \times 0.028” \)  
(.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:  
\( \leq 0.012” \)  
(.30 mm)
**Micro-Mini Pin & Ligature Cutter with Long Handle**

| 678-107L |
Same as 678-107, with long handle.
Wire size: < = .012" (.30 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: < = .012" (.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: < = .012" (.30 mm - .53 mm x .64 mm)

**Slim Flush Cut & Hold Distal End Cutter**

| 678-113 |
Cuts and holds wire distally flush to the buccal tube while reducing debondings. Designed for all types of wires.
Wire size: < = .012" to .021" x .025"

**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"

**Lingual Distal End Cutter**

| 678-700 |
Wire size: .012" to .018"

**Lingual Pin & Lig Cutter**

| 678-701 |
Wire size: < = .012"

**Lingual Pin & Lig Cutter with Long Handle**

| 678-707L |
Same as 678-707, with long handle.
Wire size: < = .012" (.30 mm)
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.

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

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

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

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.

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"
(.53 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"

**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.

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

**Lingual Weingart Pliers**  
| 678-702  
Wire size: ≤ .030"

**Lingual Weingart Pliers, 90° Bend**  
| 678-702-90  
Wire size: ≤ .030"
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: $< .020"$ (.51 mm)

Three Jaw Pliers  
| 678-302  
Useful for contouring and bending wire.  
Wire size: $< .030"$ (.76 mm)

Omega Loop Forming Pliers  
| 678-303  
Graduated cone is designed to form precise omega loops: .045", .060" and .075"  
Wire size: $< .022" \times .025"$ (.53 mm x .64 mm)

Bird Beak Pliers  
| 678-304  
Versatile loop forming pliers for round wires.  
Wire size: $< .030"$ (.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" (.53 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" (.53 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" (.53 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" (.53 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)
H12

WIRE FORMING PLIERS

General Contouring Pliers
| 678-315
Tapered, serrated pliers for ease of contouring archwires.
Wire size: ≤ .021" x .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: ≤ .022" x .025" (.53 mm x .64 mm)

Hollow Chop Pliers
| 678-317
Same as 678-310, with reduced radius.
Wire size: ≤ .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: ≤ .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: ≤ .022" (.53 mm)

Adams Pliers
| 678-320
Excellent precise right angle bends and appliance application.
Wire size: ≤ .040" (.101 mm)

V-Stop Pliers
| 678-321
Places V bend in archwires, including nickel titanium, to prevent archwire from traveling.
Wire size: ≤ .022" x .025" (.53 mm x .64 mm)

NiTi Three Jaw Pliers
| 678-322
Designed for forming and contouring of all archwire, especially for NiTi.
Wire size: ≤ .020" (.51 mm)

Optical Pliers
| 678-323
Excellent for forming helical closing loops and arch adjustments.
Wire size: ≤ .022" x .025" (.53 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: $\leq .022" \times .025"$ (.53 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: $\leq .022" \times .025"$ (.53 mm x .64 mm)

Long Tapered Bird Beak Pliers
| 678-326
Bends a variety of smooth loops.
Wire size: $\leq .022" \times .025"$ (.53 mm x .64 mm)

Hammerhead® NiTi Tie-Back Pliers
| 678-327
Multi-use NiTi bender, no heat.
Wire size: $\leq .025"$ (.63 mm)

Torquing Pliers with .016" / .018" key
| 678-328-20
Torquing Pliers with .018" / .022" key
| 678-328-21

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: $\leq .025"$

Lingual Hammerhead NiTi Pliers
| 678-704
Wire size: $\leq .025"$

Lingual Hammerhead NiTi Pliers with Serrations
| 678-704SER
Wire size: $\leq .025"$
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.
HAND INSTRUMENTS

Lingual Ligature Director, U Shape | 678-707

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

Wire size: < = .021” x .025”
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.

Band Pusher | BP300
Aids in placement and burnishing of band.
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
Straight .020" Applicator | TK020S
Single End Ligature Director | WBI-M/R

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

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 auxillaries.

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

Halsted-Mosquito Hemostat | H4
## Replacement Parts

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<th>1/4&quot; Replacement pad for 678-206</th>
<th>678-014A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity: 6</td>
<td></td>
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<table>
<thead>
<tr>
<th>1/8&quot; Replacement set screw for 678-303</th>
<th>678-018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity: 1</td>
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<table>
<thead>
<tr>
<th>Torquing Key .016&quot; / .018&quot;</th>
<th>678-020</th>
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<table>
<thead>
<tr>
<th>Torquing Key .018&quot; / .022&quot;</th>
<th>678-021</th>
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<td>Quantity: 1</td>
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</table>

<table>
<thead>
<tr>
<th>3/16&quot; Replacement pad for 678-207, 678-208, 678-503</th>
<th>678-036</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity: 6</td>
<td></td>
</tr>
</tbody>
</table>
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. 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.

Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spotting</td>
<td>Insufficient rinsing after ultrasonic cleaning</td>
<td>Rinse thoroughly under steady stream of water for 30 seconds</td>
</tr>
<tr>
<td></td>
<td>Insufficient drying after ultrasonic cleaning</td>
<td>Rinse with hot water</td>
</tr>
<tr>
<td></td>
<td>Not changing ultrasonic solution</td>
<td>Optional: Dip cassettes in alcohol after rinsing</td>
</tr>
<tr>
<td></td>
<td>Sterilizer has not been cleaned</td>
<td>Solution should be changed at least once a day</td>
</tr>
<tr>
<td>Rust</td>
<td>Corrosion from carbon steel instruments spreads to stainless steel instruments</td>
<td>Sterilizers should be cleaned weekly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use only distilled water for reservoir</td>
</tr>
<tr>
<td>Pitting</td>
<td>Chemical attack on instruments</td>
<td>Separate stainless and carbon instruments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For carbon steel instruments: Dip in pre-sterilized rust-inhibiting solution as suggested by sterilizer manufacturer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rinse and dry instruments thoroughly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use approved cleaning, sterilization solutions only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Never use household bleach or stain and tartar remover</td>
</tr>
</tbody>
</table>
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 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
| 678-310 | Mini Three Jaw Pliers
| 678-312 | NiTi Bender, 3-Prong
| 678-316 | Marcotte Pliers
| 678-311 | O’Brien Pliers
| 678-320 | Adams Pliers
| 678-321 | V-Stop Pliers
| 678-319 | Nance Loop Forming Pliers
**WIRE FORMING PLIERS**

<table>
<thead>
<tr>
<th>PART CODE</th>
<th>DESCRIPTION</th>
<th>WIRE CAPACITY (INCHES)</th>
<th>WIRE CAPACITY (METRIC)</th>
</tr>
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<tbody>
<tr>
<td>678-305</td>
<td>Omega Loop Forming Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
</tr>
<tr>
<td>678-304</td>
<td>Marcotte Looping Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
</tr>
<tr>
<td>678-303</td>
<td>Light Wire Bird Beak Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
</tr>
<tr>
<td>678-302</td>
<td>V-Stop Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
</tr>
<tr>
<td>678-301</td>
<td>Adhesion Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-300</td>
<td>Distal Cut &amp; Hold Distal End Cutter</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-299</td>
<td>Mini Pin &amp; Ligature Cutter</td>
<td>up to .012&quot; x .025&quot;</td>
<td>up to .30 mm x .64 mm</td>
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<tr>
<td>678-298</td>
<td>Coping/Crown Bending Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-297</td>
<td>Vertical Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-296</td>
<td>The Tear Drop Cutter</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-295</td>
<td>The Vertical Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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<tr>
<td>678-294</td>
<td>The Holster Pliers</td>
<td>up to .022&quot; x .025&quot;</td>
<td>up to .56 mm x .64 mm</td>
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**HAND INSTRUMENTS**

<table>
<thead>
<tr>
<th>PART CODE</th>
<th>DESCRIPTION</th>
<th>WIRE CAPACITY (INCHES)</th>
<th>WIRE CAPACITY (METRIC)</th>
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<tbody>
<tr>
<td>678-901</td>
<td>Dull Scaler</td>
<td>up to .015&quot; soft ligature wire</td>
<td>up to .38 mm soft ligature wire</td>
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<tr>
<td>678-902</td>
<td>Dull Scaler</td>
<td>up to .015&quot; soft ligature wire</td>
<td>up to .38 mm soft ligature wire</td>
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<tr>
<td>678-903</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<tr>
<td>678-904</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-905</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-906</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-907</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-908</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-909</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-910</td>
<td>Dull Scaler</td>
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<tr>
<td>678-912</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>Dull Scaler</td>
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<td>Dull Scaler</td>
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<tr>
<td>678-915</td>
<td>Dull Scaler</td>
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<td>up to .38 mm soft ligature wire</td>
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<td>678-916</td>
<td>Dull Scaler</td>
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<td>Dull Scaler</td>
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<td>678-919</td>
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<td>678-920</td>
<td>Dull Scaler</td>
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<td>678-921</td>
<td>Dull Scaler</td>
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<td>678-922</td>
<td>Dull Scaler</td>
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<td>678-923</td>
<td>Dull Scaler</td>
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**REFERENCE**

- **SLIM COLLECTION**
  - Slim Microligator
  - Slim Microligator with Hold
  - Slim Microligator with Hold and Hold
  - Slim Microligator with Hold and Hold
  - Slim Microligator with Hold and Hold
  - Slim Microligator with Hold and Hold
  - Slim Microligator with Hold and Hold

- **LINGUAL COLLECTION**
  - Lingual Distal End Cutter
  - Lingual Distal End Cutter with Hold
  - Lingual Distal End Cutter with Hold
  - Lingual Distal End Cutter with Hold
  - Lingual Distal End Cutter with Hold
  - Lingual Distal End Cutter with Hold
  - Lingual Distal End Cutter with Hold

- **MATHIEU PLIERS**
  - Mathieu Pliers
  - Mathieu Pliers
  - Mathieu Pliers
  - Mathieu Pliers
  - Mathieu Pliers
  - Mathieu Pliers
  - Mathieu Pliers

- **SLIM MILLING**
  - Slim Milling Pliers
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  - Slim Milling Pliers
  - Slim Milling Pliers
  - Slim Milling Pliers
  - Slim Milling Pliers
  - Slim Milling Pliers

- **UTILITY PLIERS**
  - Utility Pliers
  - Utility Pliers
  - Utility Pliers
  - Utility Pliers
  - Utility Pliers
  - Utility Pliers
  - Utility Pliers

- **WIRE FORMING PLIERS**
  - Wire Forming Pliers
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- **HAND INSTRUMENTS**
  - Hand Instruments
  - Hand Instruments
  - Hand Instruments
  - Hand Instruments
  - Hand Instruments
  - Hand Instruments
  - Hand Instruments

- **REFERENCE**
  - Reference
  - Reference
  - Reference
  - Reference
  - Reference
  - Reference
  - Reference