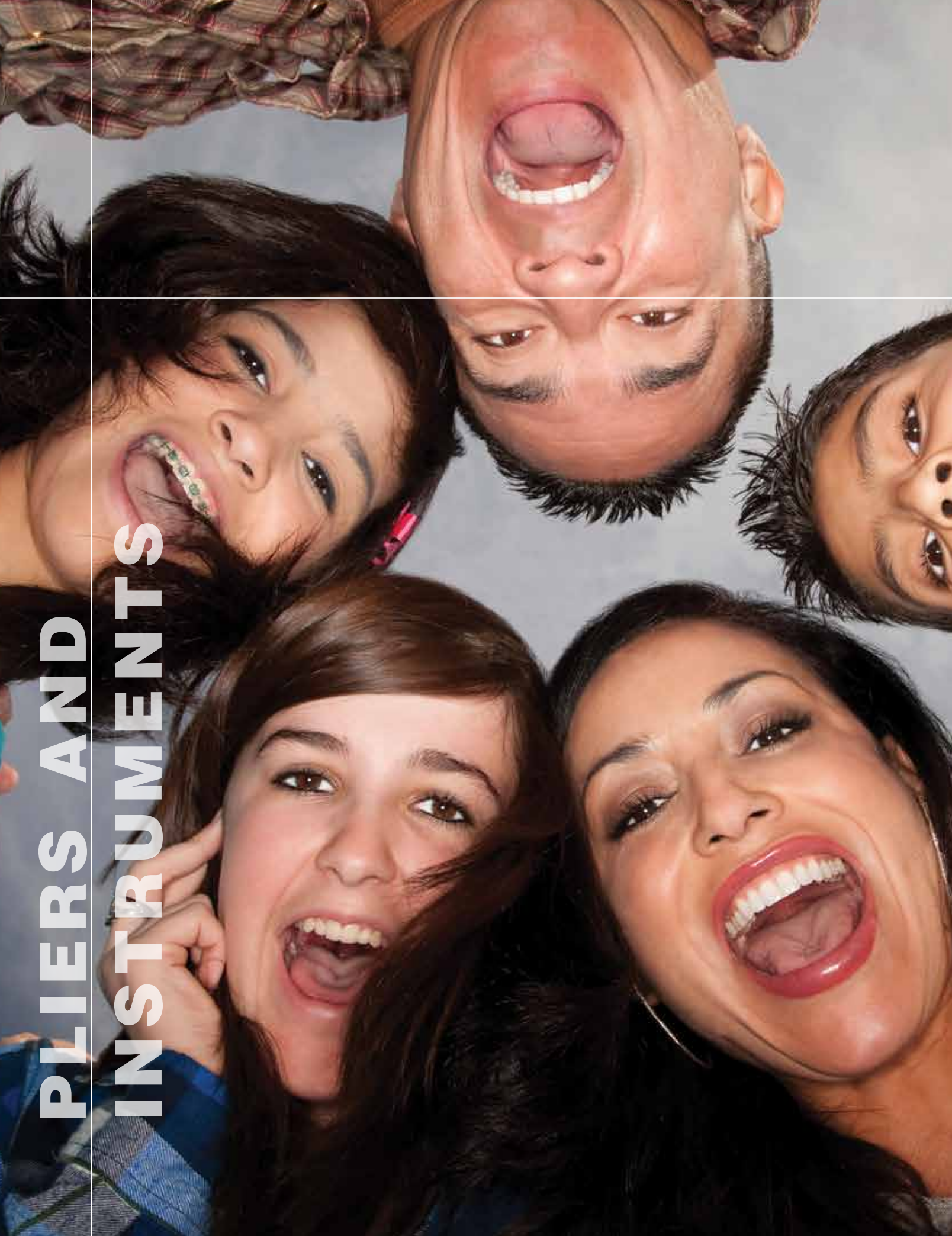




# PLIERS AND INSTRUMENTS



|                                         |             |
|-----------------------------------------|-------------|
| <i>Triumph</i> Orthodontic Instruments  | <b>M-3</b>  |
| Ortho Series Pliers                     | <b>M-9</b>  |
| <i>Choice</i> ™ Orthodontic Instruments | <b>M-19</b> |
| Mathieus                                | <b>M-26</b> |
| Instruments                             | <b>M-27</b> |
| Auxiliaries                             | <b>M-29</b> |
| Organizers                              | <b>M-30</b> |
| Mouth Mirror and Caliper                | <b>M-31</b> |
| Lubrication                             | <b>M-32</b> |

# Triumph Orthodontic Instruments

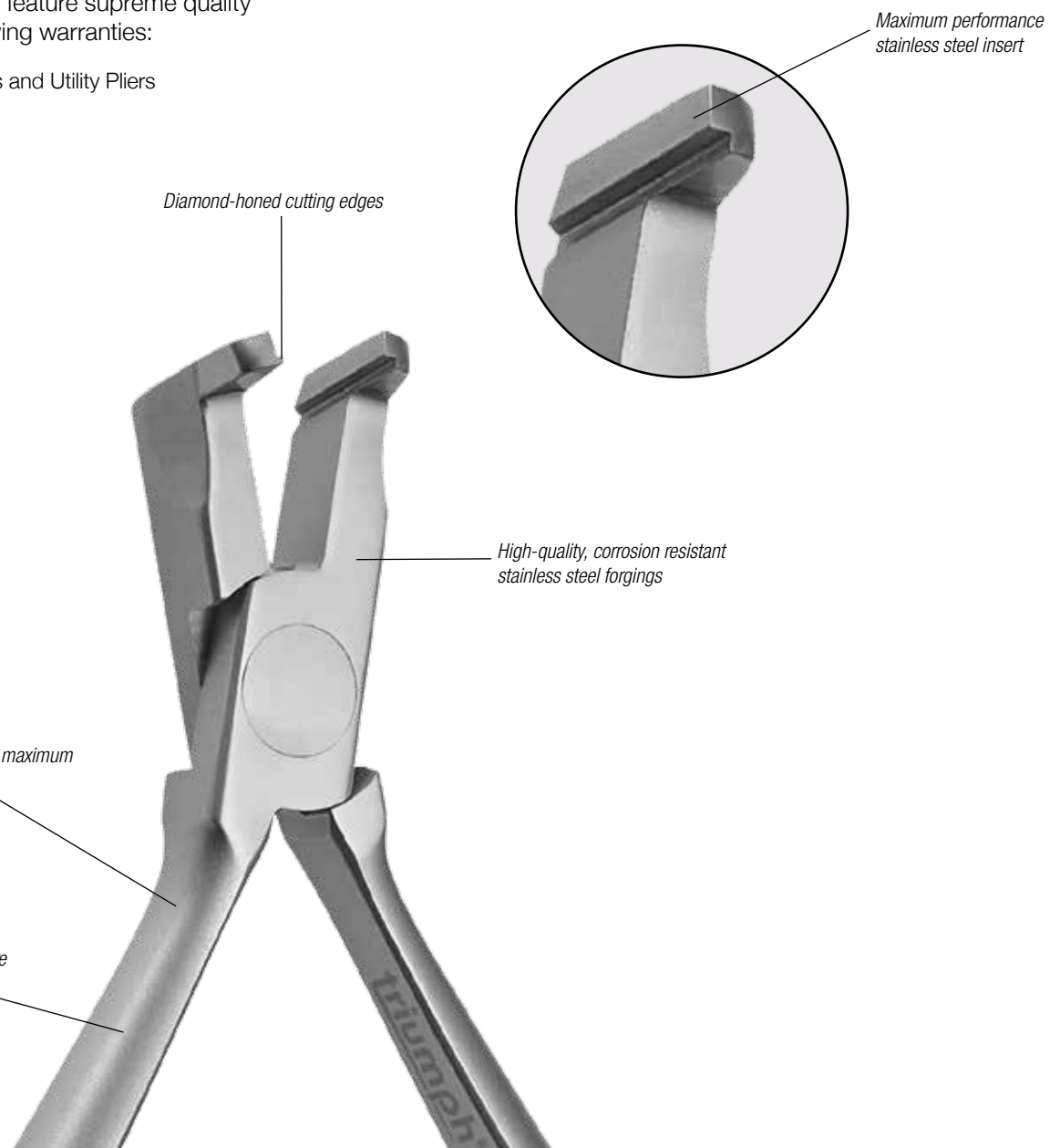
Quality and engineering come together  
for outstanding performance

The *Triumph* Orthodontic Instrument line provides the orthodontic professional an exquisite product offering of instruments. The attention to detail in the engineering of these durable, high-quality instruments is unmatched in the industry.

- Bonding pliers offer a smooth, radius joint
- Instrument tips stay aligned and perform smoothly for stress-free use
- Laser engraved part number and applicable wire sizes for easy identification

*Triumph* Instruments feature supreme quality backed by the following warranties:

- 10 years for Benders and Utility Pliers
- 7 years for Cutters
- 1 year for Mathieus



# Cutting Instruments

## Distal End Cutter (Safety Hold)

Shear cuts hard wire, and can easily cut all types of wires ranging from .012" (.30 mm) to .021" x .025" (.53 mm x .64 mm).



ITEM NO.  
205-101

## Distal End Cutter (Safety Hold) With Long Handle

Long handle option that can easily cut all types of wires ranging from .012" (.30 mm) to .021" x .025" (.53 mm x .64 mm).



ITEM NO.  
205-101XL

## Hard Wire Cutter

Designed to cut hard wire up to .022" x .028" (.56 mm x .71 mm).



ITEM NO.  
205-104

## Multi-Use Cutter

Designed to cut soft-wire pins and ligature wire up to .015" (.38 mm).



ITEM NO.  
205-105

## Mini Pin and Ligature Cutter

The smaller tips on this model allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).



ITEM NO.  
205-106

## Micro Mini Pin and Ligature Cutter

The fine tips on this model allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).



ITEM NO.  
205-107

## Micro Mini Pin and Ligature Cutter, 15° Angled

15° offset with fine tips allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).



ITEM NO.  
205-109

## Micro Cutter

The extra fine tips allow access to tight inter-bracket areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).



ITEM NO.  
205-110

## Distal End Cutter Safety Hold and Flush Cut

The safety hold cutter cuts flush distal to the buccal tube. Cuts all types of archwires up to .020" round (.51 mm) or .019" x .025" rectangular.



ITEM NO.  
205-111

Replacement  
Silicone Insert

• 3 per pack

ITEM NO.  
205-011

## Utility Pliers

### Weingart Pliers

Serrated tips hold wires firmly in the mouth. Tapered beaks fit easily into hard-to-reach areas.



ITEM NO.

205-202



### How Pliers

Serrated tips are designed for superior wire gripping. How Pliers are useful for placement and removal of archwires, pins, and other auxiliaries.



ITEM NO.

205-203

### Adhesive Removing Pliers

Superior tip design allows easy access to remove excess adhesive after debonding. Double ended replaceable blade.

ITEM NO.

205-206



#### Replacement Parts

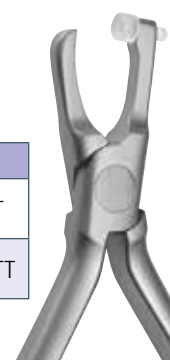
| DESCRIPTION               | ITEM NO. |
|---------------------------|----------|
| Replacement Blade         | 205-206B |
| 1/4" Replacement Pads (6) | 205-206T |

### Posterior Band Remover, Long

Safely and quickly removes posterior bands. The pointed tip slides under the band while the plastic tip protects the occlusal surface of the tooth for easy band removal and patient comfort.

ITEM NO.

205-207



#### Replacement Parts

| DESCRIPTION                | ITEM NO.  |
|----------------------------|-----------|
| 3/16" Replacement Pads (6) | 205-207T  |
| 1/4" Replacement Pads (6)  | 205-207TT |

### Debonding Pliers

Safely and easily removes steel, ceramic, and plastic direct bond brackets, and remaining adhesive from the tooth surface.



ITEM NO.

205-219

### Angulated Debonding Pliers

The angulated design quickly and easily removes anterior and posterior direct bond brackets.



ITEM NO.

205-220XL

### Crown and Band Contouring Pliers

Ideal for reshaping molar bands and crowns.



ITEM NO.

205-221

# Wire Forming Pliers

## Jarabak Pliers

Excellent for precise wire bending and forming of loops. The fine serrations on the square beak and three precision grooves permit accurate and intricate bends and loops. Wires up to .020" (.51 mm)



ITEM NO.

205-301

 **triumph**<sup>®</sup>  
Orthodontic Instruments  
Quality. Elegance. Innovation.

## Three Jaw Pliers

Adjust clasps, retainers, and archwires without marring the wire. The precision tips are carefully beveled to create extreme accuracy in adjustments. Wires up to .030" (.76 mm)



ITEM NO.

205-302

## Bird Beak Pliers

An instrument for all types of wire bending. The round and pyramid shaped tapered beaks will work with any size wire up to .030" (.76 mm).



ITEM NO.

205-304

## Light Wire Pliers With Groove

Precision tapered beaks allow intricate bends and loops in archwires up to .020" (.51 mm). The groove ensures a no-slip grip.



ITEM NO.

205-305

## Tweed Loop Forming Pliers

Excellent for making precise loops in .045", .060", and .075" diameters in wires up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.

205-306

## Rectangular Arch Forming Pliers

Easily torque and bend wires without nicking the archwire. .070" blade width. Wires up to .022" x .025" (.53 mm x .64 mm)



ITEM NO.

205-308

## Lingual Arch Forming Pliers

Forms double-back and triple-back bends in .030" and .036" wire for lingual sheaths.



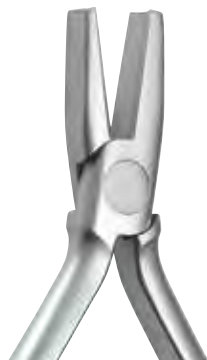
ITEM NO.

205-309

## Wire Forming Pliers

### Hollow Chop Contouring Pliers

Smooth working surfaces allow for consistent forming and contouring of arches up to .030" (.76 mm).



ITEM NO.  
205-310



### Light Wire Pliers

Precision tapered beaks allow intricate bends and loops in archwires up to .020" (.51 mm).



ITEM NO.  
205-318

### Stop (V-Bend) Pliers

Place an accurate 1 mm V-Bend with one simple squeeze to shorten archwire or provide a positive stop. Wires up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.  
205-321

### NiTi Three Jaw Pliers

Bends and forms NiTi and all other archwires up to .020" (.51 mm).



ITEM NO.  
205-322

### Bird Beak Pliers With Cutter

A versatile instrument that bends and cuts archwires up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.  
205-325

### Long Tapered Bird Beak Pliers

Long tapered beaks allow for intricate bends of archwires up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.  
205-326

### NiTi Distal Cinch Back Pliers

Cinches and bends NiTi wire distal to buccal tube. Wires up to .025" (.63 mm).



ITEM NO.  
205-327

Quality. Elegance. Innovation.

## Mathieu

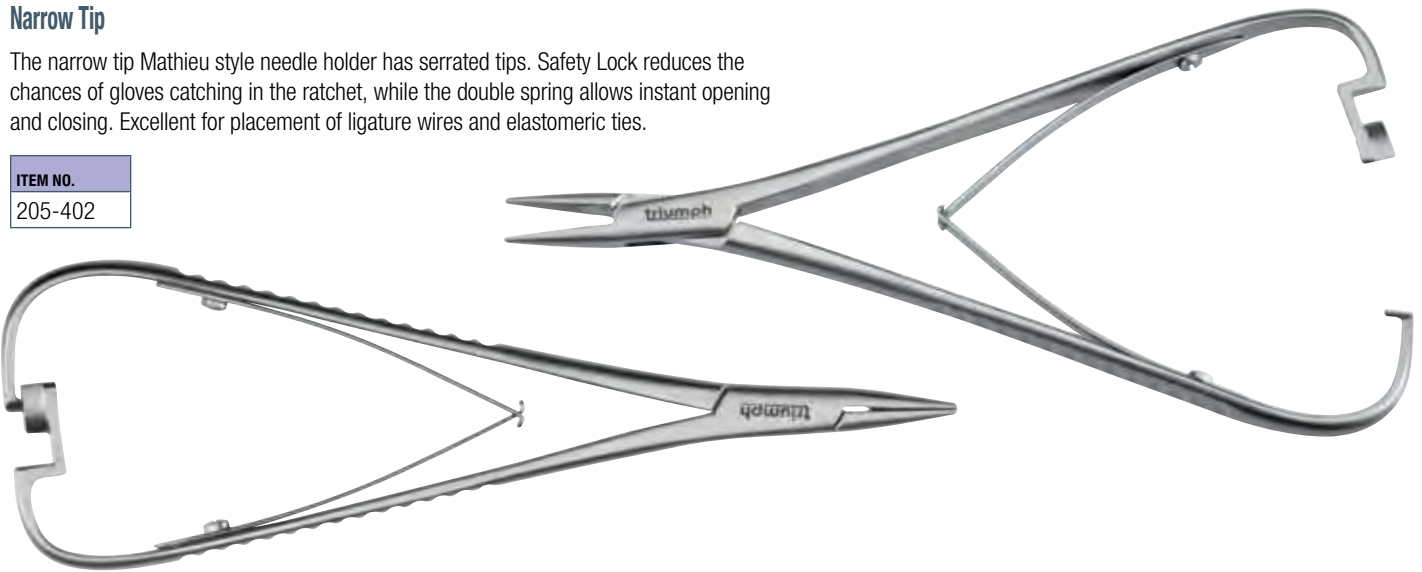


### Narrow Tip

The narrow tip Mathieu style needle holder has serrated tips. Safety Lock reduces the chances of gloves catching in the ratchet, while the double spring allows instant opening and closing. Excellent for placement of ligature wires and elastomeric ties.

ITEM NO.

205-402

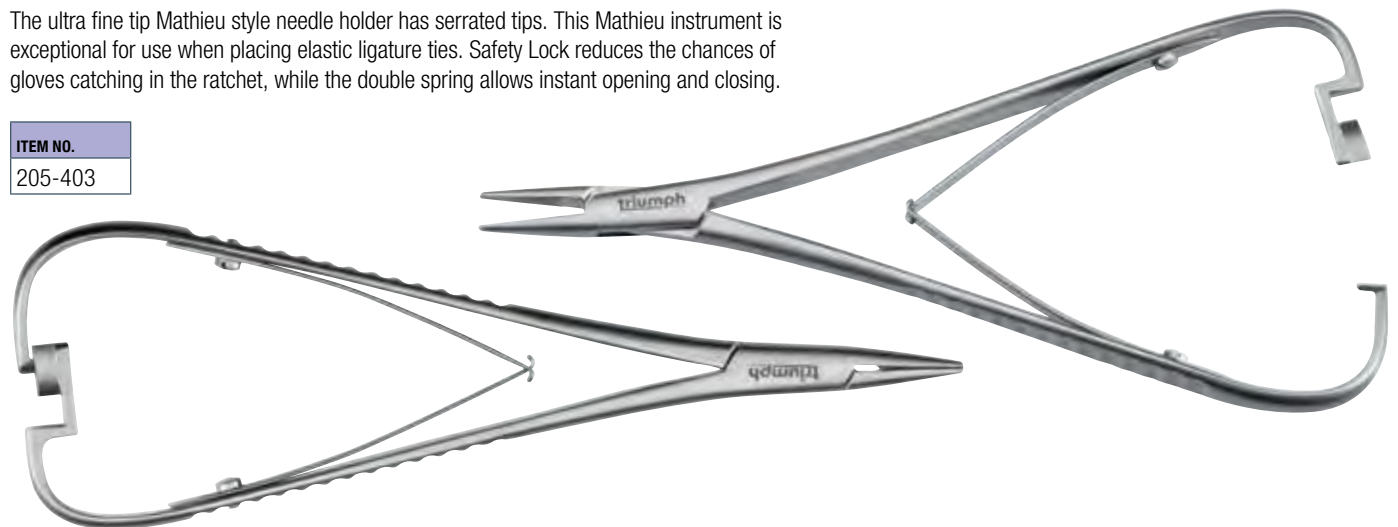


### Smaha Ultra Fine Tip

The ultra fine tip Mathieu style needle holder has serrated tips. This Mathieu instrument is exceptional for use when placing elastic ligature ties. Safety Lock reduces the chances of gloves catching in the ratchet, while the double spring allows instant opening and closing.

ITEM NO.

205-403

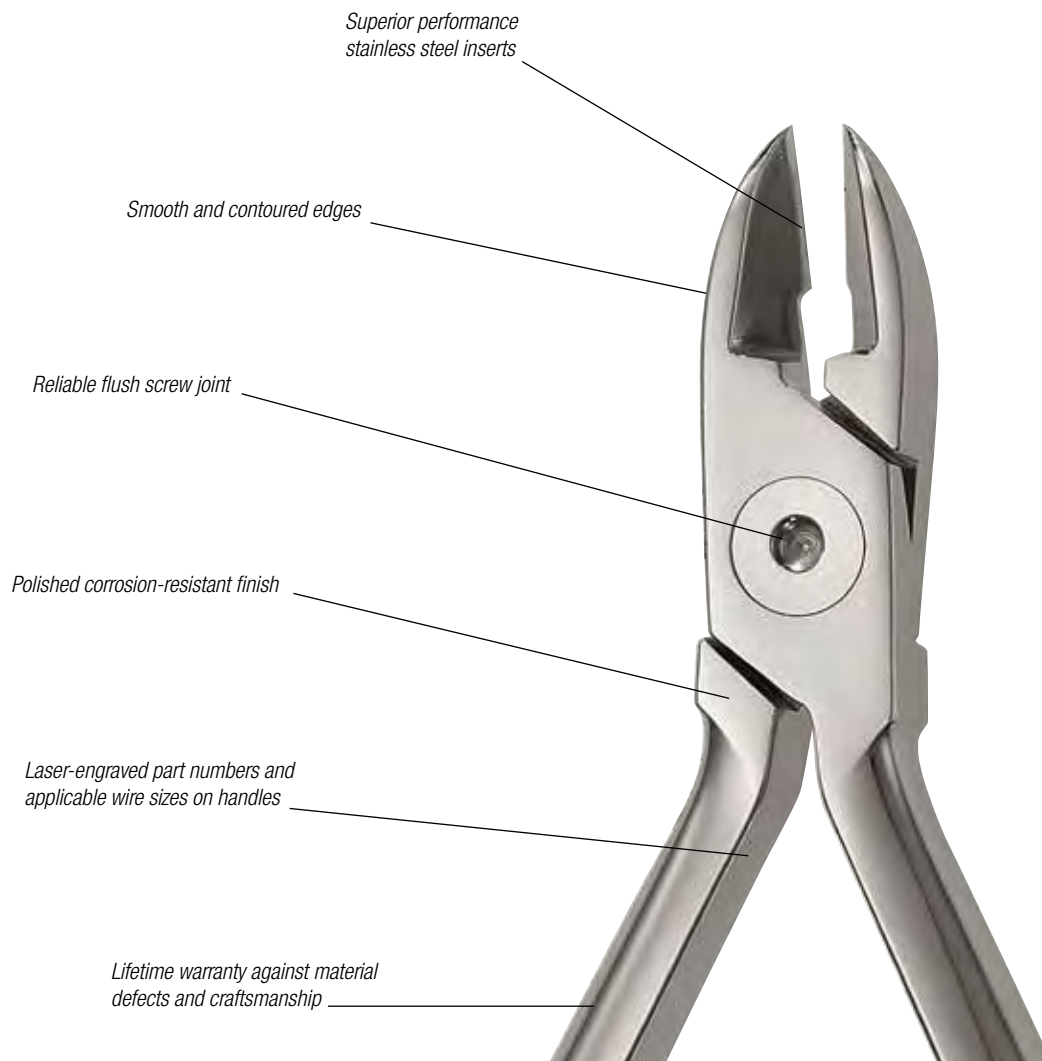


# Ortho Series Pliers

## Performance, Usability, and Guaranteed Reliability

Our Ortho Series Pliers have been designed and manufactured with an attention to detail that will assure enhanced performance and longevity. The care and precision that goes into each instrument will ensure a quality you can rely on every time you pick one up!

Quality features include:



# Cutting Instruments

## Distal End Cutter (Safety Hold)

Can easily cut all types of wires ranging from .012" (.30 mm) to .021" x .025" (.53 mm x .64 mm).



## Distal End Cutter (Safety Hold) w/Long Handle

Long handle option that can easily cut all types of wires ranging from .012" (.30 mm) to .021" x .025" (.53 mm x .64 mm).



## Distal End Cutter Safety Hold & Flush Cut

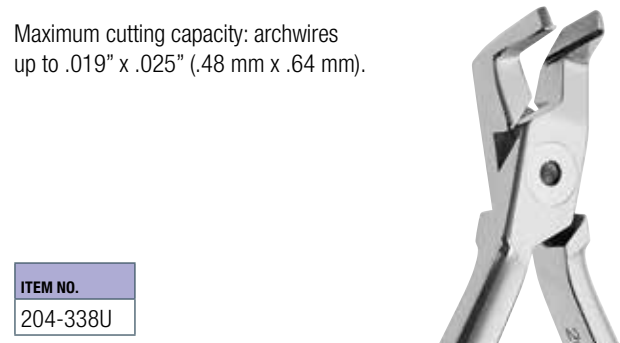
The safety hold cutter cuts flush distal to the buccal tube. Cuts all types of wires from .010" (.25 mm) up to .020" (.51 mm).



## Small Distal End Cutter (Safety Hold) w/Long Handle

Compact tips for easier access. Safety hold is ideal for cutting wires within the patient's mouth. Pliers shear-cut hard wires close to the buccal tube and hold loose wire.

Maximum cutting capacity: archwires up to .019" x .025" (.48 mm x .64 mm).



## Hard Wire Cutter, 15° Angled

Designed to cut hard wires ranging from .010" (.25 mm) to .022" x .028" (.56 mm x .71 mm).



## Cutting Instruments

### Multi-Use Cutter

Designed to cut soft-wire pins and ligature wire up to .015" (.38 mm).

ITEM NO.

204-105U



### Micro Mini Pin & Ligature Cutter

The fine tips on this model allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).

ITEM NO.

204-107U



### Micro Mini Pin & Ligature Cutter w/Long Handle

Long handled option that allows even easier access into those hard-to-reach areas. Also designed to cut soft wires up to .012" (.30 mm).

ITEM NO.

204-107XLU



### Micro Mini Pin & Ligature Cutter, 15° Angled

15° offset with fine tips allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).

ITEM NO.

204-109U



### Micro Cutter

The extra fine tips allow access to tight inter-bracket areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (.30 mm).

ITEM NO.

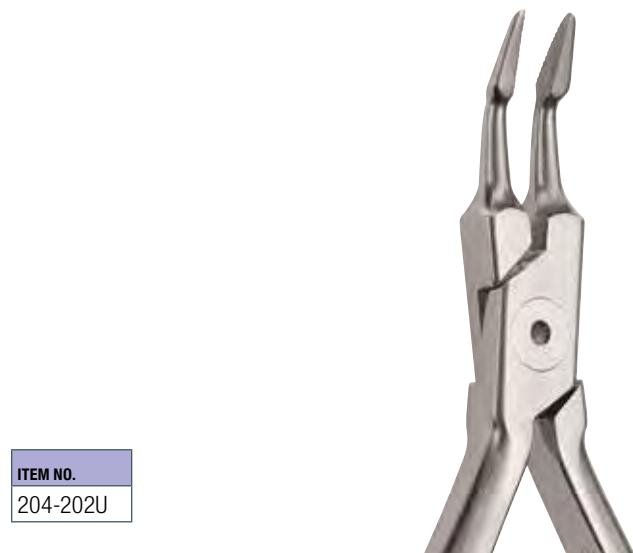
204-110U



## Utility Pliers

### Slim Weingart Pliers

Serrated tips hold wires firmly in the mouth. Tapered beaks fit easily into hard-to-reach areas.



ITEM NO.  
204-202U

### How Pliers

Serrated tips are designed for superior wire gripping. How Pliers are useful for placement and removal of archwires pins, and other auxiliaries.



ITEM NO.  
204-203U

### Crown & Band Contouring Pliers

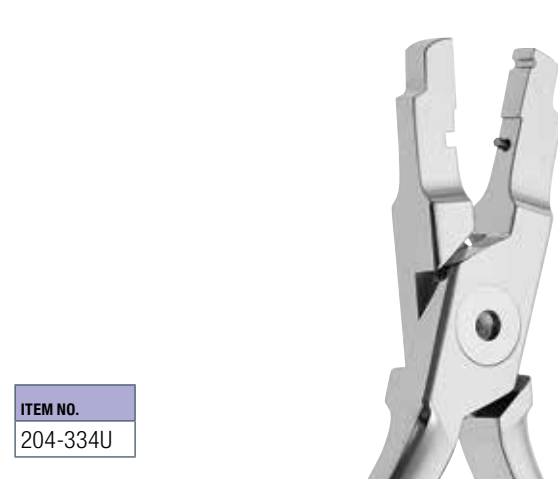
Ideal for reshaping molar bands and crowns.



ITEM NO.  
204-221U

### Utility Arch Pliers

Special design with 3 mm step for accurate utility arch construction. The notches in pliers' beak crimp preformed utility archwires into proper position.



ITEM NO.  
204-334U

## Utility Pliers

### Angled Utility Arch Pliers

Angled beak with pin simplifies the placement and manipulation of preformed utility archwires. Forms 3 mm steps for accurate utility arch construction. Preformed utility archwires can be easily crimped in the mouth.



ITEM NO.

204-335U

### 3 mm Utility Pliers

Automatically form a 3 mm step in archwire. Excellent instrument for bending utility archwires.



ITEM NO.

204-336U

### Hook Crimping Pliers, Straight

Designed for placement and securing of crimpable archwire hooks and power hooks. Straight beak allows for direct placement of hook on archwire.



ITEM NO.

204-332U

### Hook Crimping Pliers, Angled

Designed for placement and securing of crimpable archwire hooks and power hooks. Angled beak allows for precise placement of hook on archwire.



ITEM NO.

204-333U

# Debonding Pliers

## Posterior Band Removing Pliers, Long

Safely and quickly removes posterior bands. The pointed tip slides under the band while the plastic tip protects the occlusal surface of the tooth for easy band removal and patient comfort.

| DESCRIPTION                           | ITEM NO.  |
|---------------------------------------|-----------|
| Posterior Band Removing Pliers, Long  | 204-207U  |
| $\frac{3}{16}$ " Replacement Pads (6) | 205-207T  |
| $\frac{1}{4}$ " Replacement Pads (6)  | 205-207TT |



## DB Bracket Removing Pliers

Safely and easily removes steel, ceramic, and plastic direct bond brackets and remaining adhesive from the tooth surface.

| ITEM NO. |
|----------|
| 204-213U |



## Adhesive Removing Pliers

Superior tip design allows easy access to remove excess adhesive after debonding. Double-ended replaceable blade.

| DESCRIPTION                          | ITEM NO. |
|--------------------------------------|----------|
| Adhesive Removing Pliers             | 204-206U |
| Replacement Blade                    | 205-206B |
| $\frac{1}{4}$ " Replacement Pads (6) | 205-206T |



## Debonding Pliers

Safely and easily removes steel, ceramic, and plastic direct bond brackets and remaining adhesive from the tooth surface.

| ITEM NO. |
|----------|
| 204-219U |



## Angulated Debonding Pliers

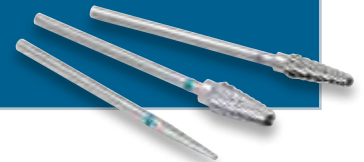
The angulated design quickly and easily removes anterior and posterior direct bond brackets.

| ITEM NO.   |
|------------|
| 204-220XLU |



After debonding, you may wish to utilize MASEL's selection of orthodontic burs.

Orthodontic Burs  
See page I13



## Wire Forming

### Jarabak Pliers

Excellent for precise wire bending and forming of loops. The fine serrations on the square beak and three precision grooves permit accurate and intricate bends and loops.

Wires up to .020" (.51 mm)

ITEM NO.  
204-301U



### Three Jaw Pliers

Adjust clasps, retainers, and archwires without marring the wire. The precision tips are carefully beveled to create extreme accuracy in adjustments.

Wires up to .030" (.76 mm)

ITEM NO.  
204-302U



### Bird Beak Pliers

An instrument for all types of wire bending. The round- and pyramid-shaped tapered beaks will work with any size wire up to .030" (.76 mm).

ITEM NO.  
204-304U



### Light Wire Bird Beak Pliers w/Groove

Precision-tapered beaks allow intricate bends and loops in archwires up to .020" (.51 mm). The groove ensures a no-slip grip.

ITEM NO.  
204-305U



### Tweed Loop Forming Pliers

Excellent for making precise loops in .045" (1.1 mm), .060" (1.5 mm), and .075" (1.9 mm) diameters in wires up to .022" x .025" (.53 mm x .64 mm).

ITEM NO.  
204-306U



# Wire Forming

## Detailing Step Pliers .50 mm

Double-sided offset beak permits bayonet bends. Creates right-hand or left-hand step-up or step-down at .50 mm increments.

ITEM NO.  
204-329U



## Detailing Step Pliers .75 mm

Double-sided offset beak permits bayonet bends. Creates right-hand or left-hand step-up or step-down at .75 mm increments.

ITEM NO.  
204-330U



## Detailing Step Pliers 1 mm

Double-sided offset beak permits bayonet bends. Creates right-hand or left-hand step-up or step-down at 1 mm increments.

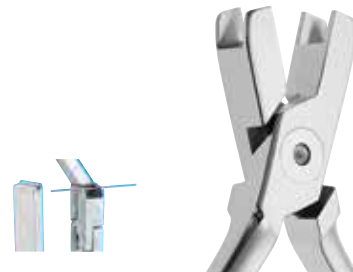
ITEM NO.  
204-331U



## Torquing Pliers Set w/Key

Specifically designed to place torquing bend into the small sections of archwires (such as a bend for a single tooth) without distorting adjacent sections of the archwire. Two-piece set consists of one torquing plier and corresponding key.

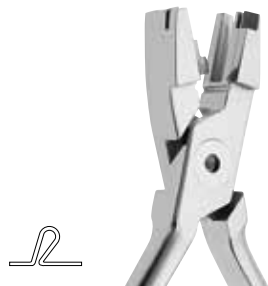
ITEM NO.  
204-337U



## Loop Tie Back Pliers

Four-step pliers automatically form loops on wire up to .020" (.51 mm) with one motion. Closing loops are easily made to desired height.

ITEM NO.  
204-328U



## Wire Forming

### Arch Bending Pliers

Easily torque and bend wires without nicking the archwire. .070" (1.8 mm) blade width.

Wires up to .022" x .025" (.53 mm x .64 mm)



ITEM NO.

204-307U

### Lingual Arch Forming Pliers

Forms double-back and triple-back bends in .030" (.76 mm) and .036" (.91 mm) wire for lingual sheaths.



ITEM NO.

204-309U

### Hollow Chop Contouring Pliers

Smooth working surfaces allow for consistent forming and contouring of arches up to .030" (.76 mm).



ITEM NO.

204-310U

### Mini Three Jaw Pliers

Precision tips for accurate wire and clasp adjusting and contouring. Also excellent pliers for bonding of orthopedic appliances. Superior strength for wires up to .030" (.76 mm).



ITEM NO.

204-312U

### Light Wire Bird Beak Pliers

Precision tapered beaks allow intricate bends and loops in archwires up to .020" (.51 mm).



ITEM NO.

204-318U

# Wire Forming

## Nance Loop Forming Pliers

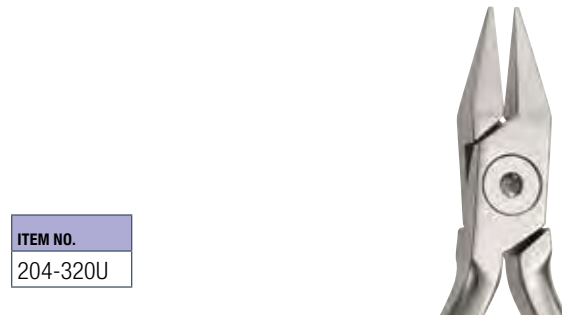
Precision loop forming with four step tip (3, 4, 5, and 6 mm). Excellent for wires up to .022" (.53 mm). Non-serrated tips and beveled edges prevent wire scoring.



ITEM NO.  
204-319U

## Adams Pliers

Tapered square beaks; .045" (1.1 mm) at tip and parallel at 1 mm opening, ideal for placing all types of attachments or bending wire up to .40" (1.0 mm).



ITEM NO.  
204-320U

## Stop (V-Bend) Pliers

Place an accurate 1 mm V-bend with one simple squeeze to shorten archwire or provide a positive stop. Wires up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.  
204-321U

## Optical Pliers

Round and concave beaks bend round or rectangular wire with a firm grip that will not score wire. Easily bends and forms all types of wire up to .022" x .025" (.53 mm x .64 mm).



ITEM NO.  
204-323U

## Bird Beak Pliers w/Cutter

A versatile instrument that bends and cuts wire ranging from .015" (.38 mm) to .025" (.64 mm).



ITEM NO.  
204-325U

# MASEL Choice Orthodontic Instruments

Dependable performance and superior corrosion resistance

The MASEL Choice Orthodontic Instrument line offers stylish and strong instruments:

- High-quality, surgical-grade German steel forgings
- Striking satin finish
- Dependable boxed hinges
- Lifetime warranty against material defects and craftsmanship

Quality features include:



## Distal End Cutters

### Distal End Cutter (Safety Hold)

Finely balanced with fatigue-free operation. Works on hard round, rectangular, and braided wires. Safety hold eliminates flying wire shards. Cuts and holds securely in one quick motion.

| ITEM NO. | WIRE CUTTING RANGE |                     |
|----------|--------------------|---------------------|
|          |                    |                     |
| 4151-617 | ●                  | .012" to .020"      |
|          | ■                  | Up to .022" x .028" |
|          | ⊗                  | .0155" to .0215"    |
|          | ⊠                  | Up to .021" x .025" |



### Flush-cut Distal End Cutter (Safety Hold)

The safety hold cutter cuts flush distal to the buccal tube. Design eliminates the need for a holding spring.

| ITEM NO. | WIRE CUTTING RANGE |                     |
|----------|--------------------|---------------------|
|          |                    |                     |
| 4151-609 | ●                  | .014" to .018"      |
|          | ■                  | Up to .017" x .022" |



### Distal End Cutter (Safety Hold) w/ Long Handle

Extra length handle gives you superior control when cutting behind second molars, along with greater visibility of the oral cavity. Will not fray multi-strand wires.

| ITEM NO. | WIRE CUTTING RANGE |                     |
|----------|--------------------|---------------------|
|          |                    |                     |
| 4151-619 | ●                  | .012" to .020"      |
|          | ■                  | Up to .021" x .025" |
|          | ⊗                  | .0155" to .0215"    |
|          | ⊠                  | Up to .018" x .025" |



### Spring Flush-cut Distal End Cutter (Safety Hold)

These standard size pliers give you superior control when cutting behind second molars, along with greater visibility of the oral cavity. Spring-rod prevents tissue impingement and maintains greater tension for longer spring life.

| ITEM NO. | WIRE CUTTING RANGE |                     |
|----------|--------------------|---------------------|
|          |                    |                     |
| 4151-621 | ●                  | .012" to .018"      |
|          | ■                  | Up to .022" x .028" |



### Mini Distal End Cutter (Safety Hold)

Compact design gives greater range of motion in tight areas. Same safety hold feature as standard size model. 110 mm in length.

| ITEM NO. | WIRE CUTTING RANGE |                     |
|----------|--------------------|---------------------|
|          |                    |                     |
| 4151-618 | ●                  | .012" to .020"      |
|          | ■                  | Up to .018" x .025" |
|          | ⊗                  | .0155" to .0215"    |
|          | ⊠                  | Up to .018" x .025" |



## Cutters

### Micro Pin & Ligature Cutter

Overall dimensions are 10% smaller than our standard pin and ligature cutter. That means easier access in small mouths, and fatigue-free comfort for clinicians with smaller hands. Our smallest model.

| ITEM NO. | WIRE CUTTING RANGE                                                                |                              |
|----------|-----------------------------------------------------------------------------------|------------------------------|
|          |  | Soft Wires<br>.010" to .018" |
| 4151-604 |  |                              |



### Pin and Ligature Cutter

The best of both worlds—small cutting head for better mobility and view of operative site, plus full-sized handles for better heft and feel. Tapered tips easily reach difficult areas.

| ITEM NO. | WIRE CUTTING RANGE                                                                |                              |
|----------|-----------------------------------------------------------------------------------|------------------------------|
|          |  | Soft Wires<br>.010" to .018" |
| 4151-605 |  |                              |



### Hard Wire Cutter

Hardened cutting edges make short work of hard round and rectangular wires. Slightly larger head size for increased durability, and a standard handle length for a sure, non-slip grip.

| ITEM NO. | WIRE CUTTING RANGE                                                                  |                     |
|----------|-------------------------------------------------------------------------------------|---------------------|
|          |  | .012" to .020"      |
| 4151-610 |  | Up to .022" x .028" |
|          |  | .0155" to .0215"    |
|          |  | Up to .021" x .025" |



### Angled Slim Nose Pin & Ligature Cutter

Slim 15° nose design allows easy access under bracket tie-wings for fast, sure, and easy cutting of ligatures. Tapered profile and tip slant makes cutting a snap.

| ITEM NO. | WIRE CUTTING RANGE                                                                  |                              |
|----------|-------------------------------------------------------------------------------------|------------------------------|
|          |  | Soft Wires<br>.010" to .018" |
| 4151-611 |  |                              |



### Jarabak w/ Cutter

Precision matched tips enable precise wire bends. A diamond-honed cutter at the base of the beak will cut and bend wires quickly and easily. Grooves ensure accurate bending and closing of loops.

| ITEM NO. | WIRE CUTTING RANGE                                                                  |                     | TIPS                                                                                         |
|----------|-------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------|
|          |  | .012" to .020"      | <br>.030" |
| 4151-626 |  | Up to .016" x .022" | <br>.030" |



### Light Wire Bird Beak w/ Cutter

For fabricating omega, helix, or retraction loops. Choose the cutter model for bending and cutting wires.

| DESCRIPTION | ITEM NO. | WIRE BENDING RANGE                                                                    |                     | TIPS                                                                                           |
|-------------|----------|---------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------|
|             |          |  | .012" to .020"      | <br>.025" |
| With Cutter | 4151-633 |  | Up to .016" x .022" | <br>.025" |



# Wire Forming and Bending Pliers

## Distal Cinch Back Pliers

The distal cinch back pliers handle the difficult task of cinching the wire behind the buccal tube with one squeeze after the wire is ligated. They will not distort the archwire and eliminate the need to anneal NiTi wire. They also help eliminate emergency visits due to wire slippage out of the buccal tubes.

| ITEM NO. | WIRE CINCHING RANGE                                                               |                     |
|----------|-----------------------------------------------------------------------------------|---------------------|
|          |                                                                                   |                     |
| 4151-695 |  | Up to .020"         |
|          |  | Up to .018" x .025" |



## Adams Pliers

Built to take the pressure required to work all adams clasps and to reduce discomfort for the user. Both beaks are flat surfaces, with jaws parallel at .040" opening. Rugged construction ensures long working life.

| ITEM NO. | WIRE BENDING RANGE                                                                |                     | TIPS                                                                                      |
|----------|-----------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------|
|          |                                                                                   |                     |                                                                                           |
| 4151-650 |  | .014" to .036"      |  .035" |
|          |  | Up to .022" x .028" |  .035" |



## Tweed Arch Forming Pliers

Use these specialty pliers for torquing and bending, for offsets, or for 90° bends on round, rectangular, and square wires. Radii on tip edges do not mar or fray wire during torquing.

| ITEM NO. | WIRE BENDING RANGE                                                                  |                     |
|----------|-------------------------------------------------------------------------------------|---------------------|
|          |                                                                                     |                     |
| 4151-640 |  | Up to .020"         |
|          |  | Up to .022" x .028" |



## Secure Hold Bird Beak Pliers

Whether you're working with round or rectangular wires, these pliers give you a remarkably stable platform for difficult-to-fabricate clasps thanks to the serrated, non-slip surface of the flat beak, and a closing groove.

| ITEM NO. | WIRE BENDING RANGE                                                                  |                     | TIPS                                                                                        |
|----------|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|
|          |                                                                                     |                     |                                                                                             |
| 4151-634 |  | .012" to .030"      |  .030" |
|          |  | Up to .022" x .028" |  .040" |



## Tweed Loop Forming Pliers

Three graduated segments (.045", .075", .095") of the round tip allow you to form three different-sized loops. Also ideal for tie-backs and closing loops.

| ITEM NO. | WIRE FORMING RANGE                                                                  |                     |
|----------|-------------------------------------------------------------------------------------|---------------------|
|          |                                                                                     |                     |
| 4151-681 |  | .012" to .020"      |
|          |  | Up to .016" x .022" |



Debonding Pliers

Straight Bracket Removing Pliers

Safely and easily removes steel, ceramic, and plastic direct bond brackets, plus the remaining adhesive from the tooth surface.



| DESCRIPTION | ITEM NO. |
|-------------|----------|
| Straight    | 4151-652 |

Angled Bracket Removing Pliers

The angulated design quickly and easily removes anterior and posterior direct bond brackets.



| DESCRIPTION | ITEM NO. |
|-------------|----------|
| Angled      | 4151-653 |

Adhesive Removing Pliers

Sleek design for use in all areas of the mouth. Replaceable double-ended Tungsten Carbide tip is designed to remove bond material without damage to tooth.



Replacement Parts

| ITEM NO. | DESCRIPTION           | ITEM NO. |
|----------|-----------------------|----------|
| 4151-655 | Tungsten Carbide Tip  | 4151-937 |
|          | Bushings (6 per pack) | 4151-942 |

Posterior Band Removing Pliers w/ Long Handle

Safely and quickly removes posterior bands. The pointed tip slides under the band while the plastic tip protects the occlusal surface of the tooth for easy band removal and patient comfort.



Replacement Bushings  
• 6 per pack



| DESCRIPTION | ITEM NO. | ITEM NO. |
|-------------|----------|----------|
| Long        | 4151-654 | 4151-942 |

High Force Band Removing Pliers

Similar to Item No. 4151-654, but a stronger design for stubborn posterior band removal.



Replacement Bushings  
• 6 per pack



| ITEM NO. | ITEM NO. |
|----------|----------|
| 4151-656 | 4151-942 |

Crown and Band Crimping Pliers

Slim tip makes it simple to crimp and reform crowns and bands for a snug fit. Slim design of the matching concave and convex beaks ensures better control.



| ITEM NO. |
|----------|
| 4151-662 |

## Specialty Pliers

### "V" Notch Stop Pliers

A single closure forms a precise 1 mm "V" stop to shorten wire or provide a positive stop. Eliminates unscheduled appointments to reseat wires and saves you valuable chair time.

| ITEM NO. |                                                                                   | WIRE BENDING RANGE                                                                |                     |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|
| 4151-649 |  |  | .012" to .020"      |
|          |                                                                                   |  | Up to .017" x .022" |



### Headgear Pliers

These heavyweight pliers safely bend the toughest outer facebows. Solid stainless steel forging, short beaks, and triple head construction provide all the force you need.

| ITEM NO. |                                                                                    | WIRE FORMING RANGE                                                                  |                |
|----------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
| 4151-616 |  |  | .045" to .075" |
|          |                                                                                    |  |                |



### Intraoral Detailing Pliers

Fabricate delicate offsets in wire accurately and quickly. Ideal for bends to engage lingually positioned teeth. Also good for by-pass and 2<sup>nd</sup> order bends. Makes 1 mm bends.

| DESCRIPTION |          | ITEM NO.                                                                            |                                                                                     | WIRE BENDING RANGE                                                                  |                     |
|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|
| Left        | 4151-643 |  |  |  | .012" to .020"      |
|             |          |                                                                                     |                                                                                     |                                                                                     |                     |
| Right       | 4151-644 |  |  |  | Up to .022" x .028" |



### Torquing Pliers Set

Use this set to apply torque to any specific tooth at any time during treatment. For use with any size rectangular wire, the set even allows you to place labial and lingual torque on adjoining teeth.



| DESCRIPTION |          | ITEM NO.                                                                              |                                                                                       | WIRE TORQUING RANGE                                                                   |                     |
|-------------|----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|
| Male        | 4151-623 |  |  |  | Up to .022" x .028" |
|             |          |                                                                                       |                                                                                       |                                                                                       |                     |
| Female      | 4151-624 |  |  |  |                     |

### Double-sided Detailing Pliers

Intraoral detailing without disengaging wire means significant time savings. Step up, down, in, or out. Tips are at a right angle from handle to allow easy access to the wire.

| DESCRIPTION |          | ITEM NO.                                                                            |                                                                                     | WIRE BENDING RANGE                                                                  |                     |
|-------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|
| 1 mm        | 4151-645 |  |  |  | .012" to .020"      |
|             |          |                                                                                     |                                                                                     |                                                                                     |                     |
|             |          |  |  |  | Up to .022" x .028" |



### Hook Crimping Pliers

Does its job perfectly intra- or extraorally. Slotted design fits over the base of hook and holds it securely while crimping.

| ITEM NO. |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 4151-663 |  |



## Lab and Utility Pliers

### Three-Prong Bending Pliers

Ideal for adjusting and contouring wires, clasps, and retainers no smaller than .020" at tip, and no larger than .030" at base of jaws.

| ITEM NO. |
|----------|
| 4151-612 |

| WIRE FORMING RANGE                                                                |                |
|-----------------------------------------------------------------------------------|----------------|
|  | .020" to .030" |



### Three-Prong Pliers w/ Groove

Produce superior clasps and intraoral loops. One beak has a center slot that accommodates the narrow center shaft on the opposing jaw. Shortened tips give more torquing strength, and groove holds wire firmly for more consistent bends.

| ITEM NO. |
|----------|
| 4151-639 |

| WIRE BENDING RANGE                                                                 |                     |
|------------------------------------------------------------------------------------|---------------------|
|  | .014" to .032"      |
|  | Up to .022" x .028" |



### Three-Prong Lab Pliers w/ Groove

Bends easily and accurately without loss of alignment. Shorter tips allow for more strength, while groove at tip gives more consistent bends. Ideal pliers for fabricating clasps or making adjustments to lip bumpers.

| ITEM NO. |
|----------|
| 4151-641 |

| WIRE BENDING RANGE                                                                  |                     |
|-------------------------------------------------------------------------------------|---------------------|
|  | .032" to .045"      |
|  | Up to .022" x .028" |



### Lab Wire Bird Beak Pliers

Heavy duty bird beak pliers have a serrated rectangular tip and a smooth round tip, with jaws parallel at .040" opening. Tips are sandblasted for non-slip gripping. Slightly longer than standard size, and are heavier to allow the application of the force needed to bend .056" wires.

| ITEM NO. |
|----------|
| 4151-670 |

| WIRE BENDING RANGE                                                                  |                     | TIPS           |
|-------------------------------------------------------------------------------------|---------------------|----------------|
|  | .016" to .056"      | → • ←<br>.045" |
|  | Up to .022" x .028" | → • ←<br>.050" |



### Weingart Pliers

General utility pliers that feature an offset beak for a convenient working angle, fully serrated tips, and bowed jaws that won't pinch lips. Inserted for extended working life.

| ITEM NO. |
|----------|
| 4151-687 |



### Heavy Duty Lab Cutter

Compound action guarantees accurate cuts. Features precise alignment. Ideal for inner headgear bows.

| ITEM NO. |
|----------|
| 4150-814 |

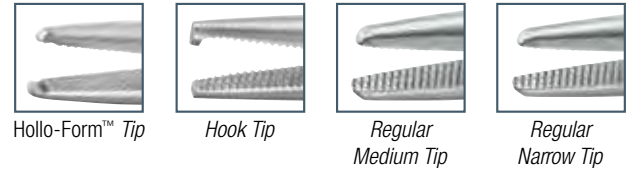
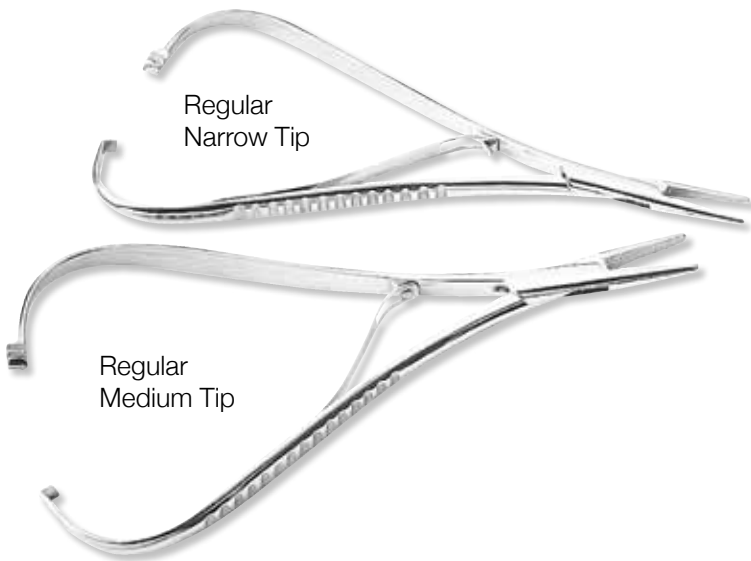
| WIRE CUTTING RANGE                                                                   |                |
|--------------------------------------------------------------------------------------|----------------|
|  | .020" to .045" |



# Mathieus

## Standard Mathieus

Solid construction, classic design, and refined finish. *MASEL's* Mathieu pliers are an ideal instrument for all ligating duties.

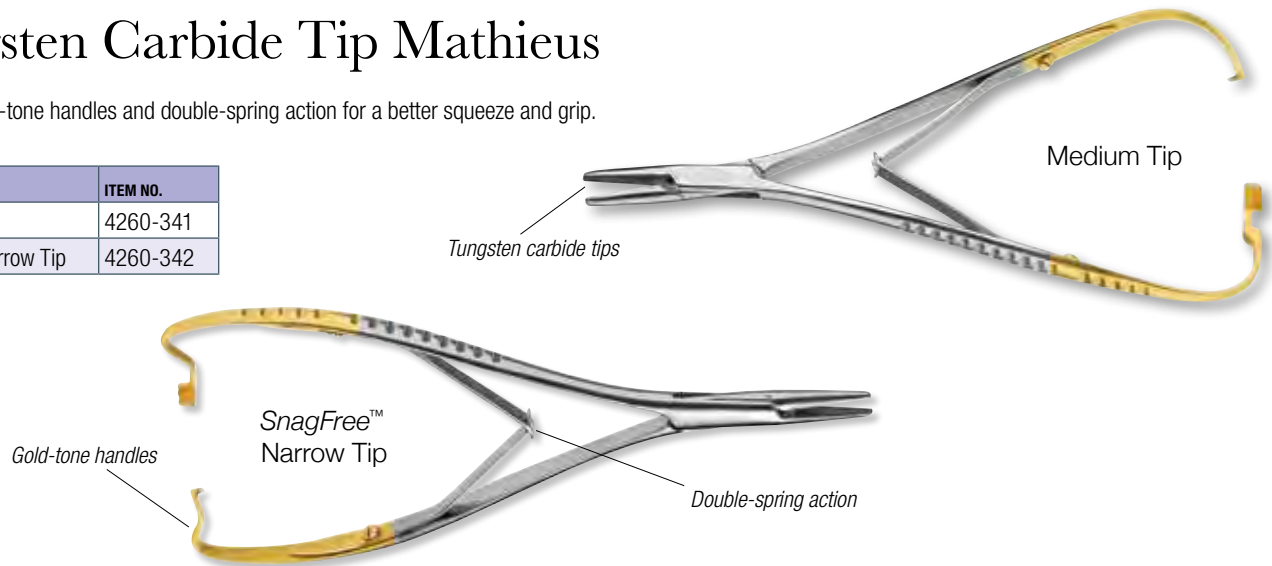


| DESCRIPTION        | ITEM NO. |
|--------------------|----------|
| Hollo-Form Tip     | 4150-893 |
| Hook Tip           | 4150-895 |
| Regular Medium Tip | 4150-898 |
| Regular Narrow Tip | 4150-899 |

## Tungsten Carbide Tip Mathieus

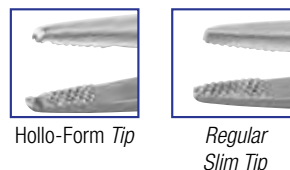
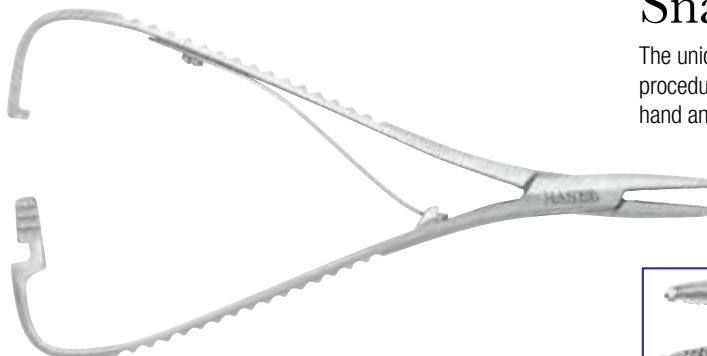
Features gold-tone handles and double-spring action for a better squeeze and grip.

| DESCRIPTION         | ITEM NO. |
|---------------------|----------|
| Medium Tip          | 4260-341 |
| SnagFree Narrow Tip | 4260-342 |



## SnagFree Mathieu

The unique recessed locking mechanism prevents gloves from interfering with "tie-in" procedures. Inside-placed jaws allow better squeeze and grip, with less force on your hand and wrist. The box joint offers better alignment and smoother feel during usage.



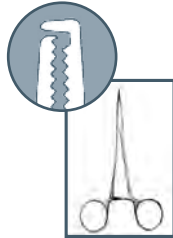
| DESCRIPTION               | ITEM NO. |
|---------------------------|----------|
| SnagFree Hollo-Form Tip   | 4150-393 |
| SnagFree Regular Slim Tip | 4150-398 |

# Instruments

## Mosquito Forceps

Available with and without hook tip.  
Excellent for placing ligating modules.  
Hook on tip allows for easy non-slip grip of any type of elastomeric.

| DESCRIPTION | TIP          | ITEM NO. |
|-------------|--------------|----------|
| Straight    | Without Hook | 4150-919 |
| Straight    | With Hook    | 4150-922 |
| Curved      | Without Hook | 4150-924 |



## Original Keats Placing Tweezers

These surgical stainless steel tweezers feature a curved body design that allows a clear view for precise bracket placement on both posterior and anterior teeth. The slim tip fits into hard-to-reach areas and ensures a positive grip on brackets and buccal tubes for enhanced stability.



ITEM NO.  
4260-343



## Reverse Action Keats Tweezers

Ensures stability by holding brackets and tubes firmly in place during the bonding process due to the reverse-action handles. The slim tip fits into hard-to-reach areas like buccal tubes and behind tie-wings. The opposite end conveniently aids in placing brackets, and aligning them in the wire slot.



ITEM NO.  
4260-344

## Module Separating Pliers

Curved design of the beaks makes separating module placement easier. Reverse action of non-slip grooved tip elongates and thins modules, making it easier to fit between tight contacts.

ITEM NO.  
4150-953



## All-Purpose Scissors

4½" (11.4 cm)

These all purpose slightly curved scissors cut band material, wire mesh, fine wires, elastomerics, and more.

ITEM NO.  
4150-900



## Festooning Scissors

Small scissors for precision cutting are ideal for festooning bands and crowns. Small sharp blades reach into the smallest anterior bands.

ITEM NO.  
4150-935



## Direct Bonding Tweezer

Reverse action tweezer assures positive grip on brackets. Makes pre-loading possible and bracket transfer easy. Holds any single size bracket.

ITEM NO.  
4150-921



## Bracket Placing Tweezer

Extra small tip allows better view of bracket. Especially useful for reaching posterior region or lingual bonding. Reverse action grips bracket securely.

ITEM NO.  
4150-925



## Band Pusher/Seater

Slip-resistant positive grip is designed to give you maximum control. Full grip handle and precisely angled, serrated pushing tip ensure accurate placement. Greatly reduces risk of slippage and trauma to gingiva.

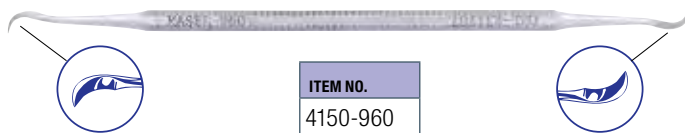
ITEM NO.  
4150-976



# Instruments

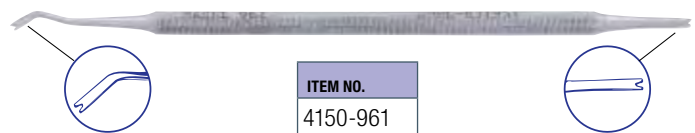
## Double-Ended Scaler

When scaling cement from several teeth, as one end fills, flip the instrument over and keep scaling without skipping a beat. Fine point tips let you reach the tightest areas with ease.



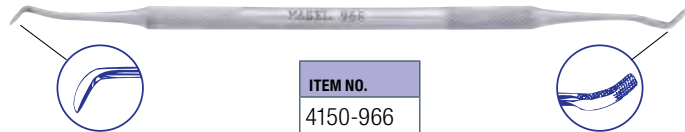
## Double-Ended Ligature Director

For convenience and speed, the straight end works for anterior teeth, and the angled end gives maximum working access to posterior molars. Mesially or distally, you'll tuck pig-tails securely out of the way, eliminating soft tissue irritation.



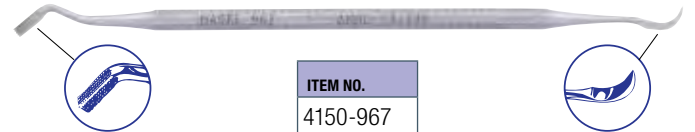
## Band Seater/Scaler

Two important orthodontic tools in one. Curved band seater lets you apply evenly distributed force for proper band placement—no slippage or improper seating. Use versatile scaler to check for gaps between band and tooth or for scaling excess cement.



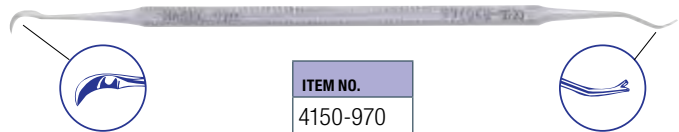
## Scaler/Pusher

Seat bands securely the first time with one end; switch to the other end to check the fit—a natural combination that makes for convenience and efficiency.



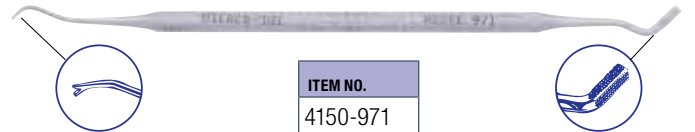
## Scaler-Director

Functional, all purpose scaler on one end, a handy ligature director on the other. This balanced, stainless steel instrument is easy to handle and completely autoclavable.



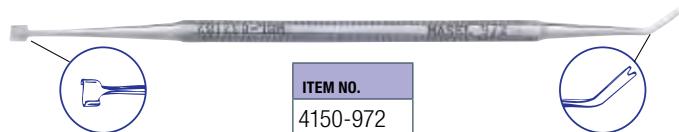
## Ligature Pusher-Director

Finely serrated band pusher on one end provides firm but gentle control for band seating. For general ligature directing procedures, the other end of this instrument makes this a popular, functional tool.



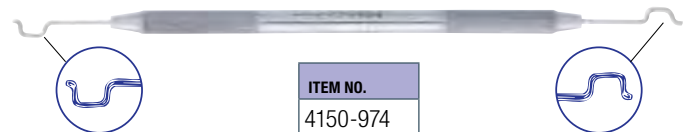
## Ligature Tying/Tucking Instrument

This stainless steel instrument saves time because it combines a ligature tying and tucking tool into one well balanced instrument.



## Twirl-On Elastic Placing Instrument

Tip design lets you handle elastics easier than ever. You'll be amazed at how this all stainless steel tool speeds you through elastic ligature placing/tying.



## Double-Ended Explorer

Curved on one end and slightly angled on the other, this explorer has the versatility to remove elastics easily from the anterior or posterior sections of the mouth.



## Single-Ended Explorer

This explorer works great for removing elastics, and is designed for customers that prefer a single-ended instrument.

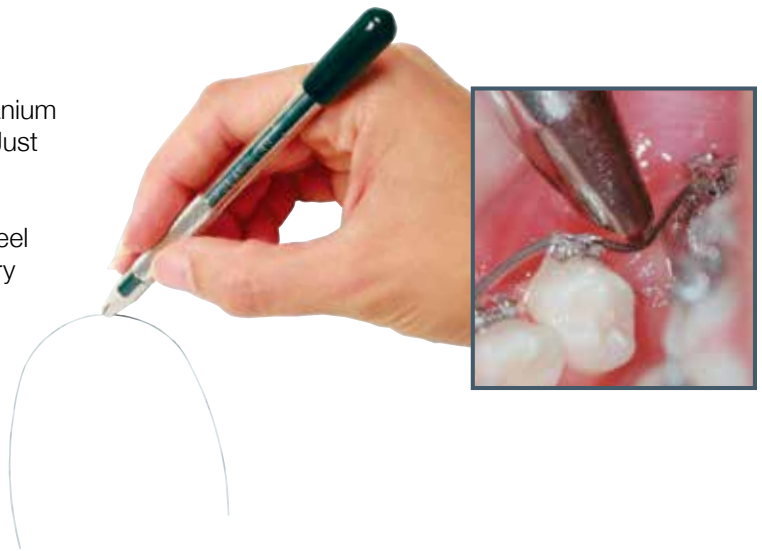


## Nickel Titanium Chill Instrument

This lightweight, compact instrument puts all nickel titanium wires into the martensitic state to facilitate easy tie-in. Just remove cap, fill with water, and freeze. After it is frozen, touch any part of a nickel titanium archwire, and it will immediately become soft and flexible. This stainless steel instrument is simple to use and fully autoclavable, or dry heat sterilizable with the rubber cap removed.

ITEM NO.

4150-962

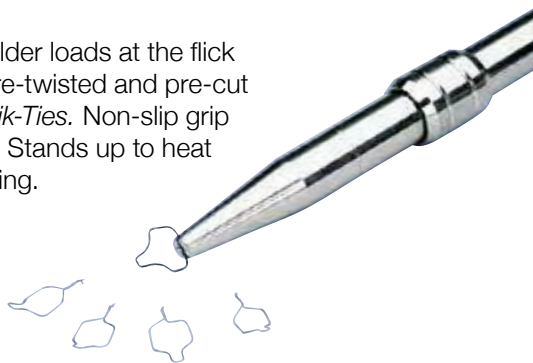


## Quik-Tie Twister

Handy pencil-sized twist holder loads at the flick of a finger, firmly holds all pre-twisted and pre-cut ligatures and Kobayashi Quik-Ties. Non-slip grip releases only on command. Stands up to heat sterilization or cold disinfecting.

ITEM NO.

4150-975



## High Heat Bite Stick

Long handle reaches second molars easily, and serrated triangular biting surface ensures secure contact. High heat sterilizable up to 350°F (177°C).

ITEM NO.

4150-951



## Autoclavable Code Rings

Identify instruments and avoid costly errors. Tough, non-fade, high temperature silicone withstands repeated autoclave temperatures up to 370°F (188°). Will not discolor or distort during sterilization.

- 100 per pack



| DESCRIPTION                             | ITEM NO. |
|-----------------------------------------|----------|
| Red                                     | 4250-721 |
| Gold                                    | 4250-722 |
| Blue                                    | 4250-723 |
| Light Gray                              | 4250-724 |
| Plum                                    | 4250-725 |
| Orange                                  | 4250-727 |
| White                                   | 4250-729 |
| Pink                                    | 4250-730 |
| Green                                   | 4250-731 |
| Assorted, includes all 12 colors in Kit | 4250-733 |

## Code Ring Assortment Kit

Kit includes:

- 600 Code Rings, 50 each of Blue, Light Gray, Plum, Orange, White, Gold, Beige, Black, Brown, Green, Red, and Pink
- 1 Box with Dividers

ITEM NO.

4250-710



# Instrument Racks

## Pliers Rack with Hinged Cover

The hinged cover protects pliers while allowing easy access.

- Holds up to 10 instruments
- 8" W x 6½" D x 8" H  
(20.3 cm x 16.5 cm x 20.3 cm)

ITEM NO.

4811-024



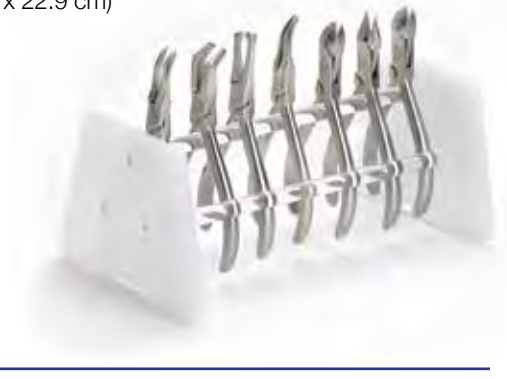
## Pliers Organizer

Extra-wide base prevents accidental tipping.

- Holds up to 12 instruments
- Base: 5½" D x 9" W  
(14 cm x 22.9 cm)

ITEM NO.

4150-501



## Combination Rack

Holds instruments as well as ligature wire, scalers, and directors. Compact in design—large in capacity.

- Base: 3½" W x 7" D  
(8.9 cm x 17.8 cm)

ITEM NO.

4150-502



## Circular Space Saver Rack

Designed for easy reach and visibility. Outer tube holds pliers, and inner tube holds straight instruments.

- 5⅝" diameter x 4¼" H  
(13.7 cm x 10.8 cm)
- Inner ring: 1¼" diameter (3.2 cm)
- Outer ring: 3⅞" diameter (9.8 cm)

ITEM NO.

4150-508



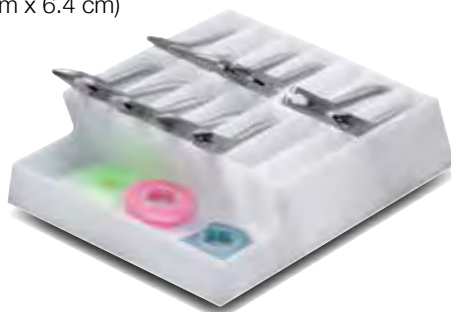
## Low-Profile Drawer Type (2)

This low-profile rack fits into drawers with a 4" (10.1 cm) height. Features a spacious utility compartment.

- 3¾" (9.5 cm) high with pliers in place
- 6⅞" W x 9⅝" D x 2½" H  
(15.7 cm x 24.4 cm x 6.4 cm)

ITEM NO.

4150-507



## Super Station

Seven horizontal pliers slots and seven clear vertical tubes take the guesswork out of finding your supplies. Slots and vertical tubes are removable for easy cleaning, or to store the organizer in a drawer.

- Base: 6½" W x 9" D  
(16.5 cm x 22.9 cm)

ITEM NO.

4150-503



## Mouth Mirror

### Size #5 with Hollow Form Handle

This lightweight mouth mirror comes in the popular #5 size and features an ergonomically designed, lightweight handle, making it easy to grip and reposition.

This durable, comfortable instrument is autoclavable for efficient sterilization.

ITEM NO.

4150-980



## Electronic Digital Pointed-Jaw Caliper

### 4" (101.6 mm)

Specifically designed for precise dental measurements, this digital caliper makes data collection fast and accurate in inches or millimeters. Furnished with fitted case and extra battery.

ITEM NO.

3805-315



## Lubrication

To increase the life of your instruments, routine lubrication is recommended. Lubricate instruments after sterilization. This should be done at least weekly. Use only lubricants designed for precision hinged instruments. If using a dry heat sterilizer, be sure to use a lubricant that is compatible with the operating temperatures of your dry heat unit.



## LoKo™ Lube

Designed exclusively to lubricate the hinge areas of orthodontic pliers and cutters. Lube is a low coefficient liquid that reduces friction caused by the heat and oxidation associated with modern sterilization equipment. Recommended after each sterilization cycle.



| DESCRIPTION   | ITEM NO. |
|---------------|----------|
| Small, .25 oz | 7150-014 |
| Large, 4.0 oz | 7150-040 |

## Barrier Milk Concentrate

Concentrated corrosion inhibitor and lubricant is specially formulated to lubricate and protect instruments after they have been cleaned and prior to autoclaving. Dilute 1 part solution to 6 parts deionized or demineralized water. Not to be used with dry heat sterilizer.

| DESCRIPTION      | ITEM NO. |
|------------------|----------|
| Bottle, 1 gallon | 4150-590 |

