schweickhardt

SUPERIOR QUALITY MAXIMIZES SATISFACTION.

RMO®'s premium Schweickhardt instruments represent the finest quality available at any price. Each Schweickhardt instrument is precisely manufactured to our specifications in Germany with hardened inserts that can be sharpened or replaced, resulting in a more economical product over time than disposable instruments. All Schweickhardt instruments are crafted of 100% surgical stainless steel, are forged, finished by hand, and carry a superb warranty.

- Premium quality instruments result in a more satisfying experience because they allow for a more precise and ergonomic work process day to day, year over year.

- RMO® Schweickhardt inserts are made from a special alloy and are applied to the plier with a highly sophisticated soldering technique. Schweickhardt insert alloy combines hardness (around 62 HRc) with high corrosion resistance.

- All Schweickhardt beaks and inserts are milled on high precision machines and finished by hand by expert craftsmen. In addition, all beaks are protected with a tungsten carbine coating for improved wire grip and maximum reliability.

- All box locks and screw joints are produced with exacting care to ensure a smooth and precise action throughout the entire working angle.

- All edges are carefully chamfered for increased safety - (no pinching or wounding of soft tissue).
- Because the instruments are not chrome plated, they can be subjected to a variety of sterilization methods such as ultrasonic, dry heat, chemclave, autoclave, and cold sterilization.

Extremely accurate precision beaks guarantee perfect holding, bending, and cutting results

Optimum guidance of working ends through precision box locks and screw joints provide consistent action over time

Ergonomic design delivers safety and comfort through careful chamfering of all edges

High corrosion resistance without chrome plating

P00695 Rev. B

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RMO®

BAND CONTOURING INSTRUMENTS

Contouring Plier (Johnson)

- Concave and convex tips for contouring bands
- Stainless steel

i00114

BAND SEATING INSTRUMENTS

Band Pusher

- Serrated stainless steel tip, non-removable
- Stainless steel handle - square with chamfered corners
- Tip end has square serrations

i00300

Contouring Plier (Gordon)

- For bands and anterior stainless steel crowns
- Stainless steel
- Box joint

i00137

UTILITY PLIERS

How Plier Straight

- Extra hard stainless steel
- Good all around utility plier has long slender lip-safe beaks
- Tips are serrated and hard carbide coated for additional grip
- Lip-safe edges at box and beaks
- Tips are precisely adjusted
- Box joint

i00110

How Plier Curved

- Same as i00110 only with curved beaks
- Curved beaks increase efficiency in posterior area
- Box joint

i00111

Utility Plier (Weingart style)

- Stainless steel
- Tips are delicate and meet precisely so that even small attachments can be firmly held
- General purpose utility plier with curved beaks
- Inserted tempered tips for longer life
- Serrated and lip safe
- Tip length 10mm
- Up to .020" (.508mm)

i00556

Plier Weingart Style - Mini

- Stainless steel
- Tips are delicate and meet precisely so that even small attachments can be firmly held
- General purpose utility plier with curved beaks
- Inserted tempered tips for longer life
- Serrated and lip safe
- Tip length 6mm
- Up to .016" (0.406mm)

i00586

WIRE BENDING PLIERS

Loop Plier (Tweed)

- Extra hard stainless steel
- Tips precision milled
- Three step loop former .049" (1.25mm), .065" (1.65mm), .085" (2.15mm)
- Grooved and serrated opposing tip for very small loops
- Up to .020" (0.508mm) wire
- Non-removable tip
- Box joint

i00350

Loop Forming Plier (Optical type)

- Extra hard stainless steel
- Cone and concave beaks for round wires
- Concave beak is contoured to ensure more uniform loops
- Round beak is precision ground to .047" at tip
- For working round wires at tip up to .020" (0.508mm)

i00351

Loop Plier (Tweed)

- Includes one extra replacement tip
- Hard tool steel inserts
- Round beak is heat-treated. It has two sections of .047"(1.2mm), .059" (1.5mm)
- Concave beak prevents wire nicking and ensures more uniform loops; for making Omega loops
- Up to .020" (0.508mm) wire

i00548

Replacement tips (pkg of 2)

i00549

Wire Bending Plier (Angle) Bird Beak Type

- Extra hard steel
- Tips meet very precisely
- Cone and pyramid shaped tips
- Carbide coated tips for better grip of wire and longer lifetime
- Round beak is precision ground to .039" (1.0mm) at tip
- Box joint
- Bends wire up to .022" x .025" (0.559mm x 0.635mm) and round up to .028" (0.711mm)

i00139

Light Wire Plier

- Longer, more gradually tapered beaks than the Bird Beak plier
- For working light round wires up to .020" (0.508mm)
- Longer beaks make it easier to bend small diameter loops
- Box joint

i00140

Lingual Arch Forming Plier

- Designed to form double back and triple back bends in either .030" (0.762mm) or .036" (0.914mm) wire for inserting in lingual sheaths
- Double back groove is close to the plier joint to assure adequate forming
- Also recommended for use with 3D® Fixed/Removable™ (Wilson®) to hold palatal activation appliances

i00420

Closing Loop Plier (Nance)

- Extra hard stainless steel
- Four step loop forming beaks precision milled
- Radiused edges prevent wire damage
- Box joint
- Up to .028" (0.711mm) wire

i00001

Closing Loop Plier (Standard)

- Same use and same characteristics as the Nance i00001 but permits uniform vertical bendings
- Permits the simultaneous forming of two right angled bends
- Max wire .028" (0.711mm)
- Box joint

i00101

Three Jaw Clasp Adjusting Plier (Aderer type)

- Tips for rounded or dimensional wire
- Box joint
- Exact shape and position of beaks will avoid squeezing and marking of wire
- Made from extra hard stainless steel

Up to .040" (1.016mm) **i00200**

Up to .030" (0.762mm) **i00201**

Arch Forming Plier (Angle)

- For bending, holding or torquing dimensional wires
- Stainless steel with hard carbide coated tip surfaces
- Box joint
- Offering maximum resistance against wear by torquing
- Up to .021" x .028" (0.534mm x 0.711mm)

i00442

CUTTERS

Distal End Cutter, Safety Hold

- Shear cuts hardwire and then safety holds the loose distal end to prevent wire from going into tissue
- Hard tool steel insert
- Cut wire up to .021 x .025 (0.534mm x 0.635mm) and .026 round
- Designed for intraoral cutting and lip safety
- Made from selected surgical stainless steel to provide lasting beauty and durability
- Not ideal for braided wire

Regular beak	i00550
Small beak*	i00554

*Reached the molar area easier, due to the small beak

Flush Cut Distal End Cutters

- Archwire is cut flush with the end of the tube
- Safety holds the loose distal end to prevent wire from going into tissue

Flush Cut, V Design .016 - .018" x .022" and up to .0175" coaxial (.406-0.457mm x 0.559mm and 0.445mm)

i00560

Flush Cut, .014 - .018" x .022" and up to .0175" coaxial (.356-0.457mm x 0.559mm and 0.445mm)

i00566

Flush Distal End Cutter with O-Ring

- Hardened insert
- Elastomeric o-ring
- Wire up to .022" x .028" (0.559mm x 0.711mm) and .026" (.0660mm) round
- Due to the o-ring, the cutting edges do not have direct contact which ensures longer sharpness of the cutting edges

Regular Handle	i00567
Long Handle	i00568
Replacement O-Ring (pkg of 10)	i00569

Ligature Cutter

- Stainless steel
- Soft ligature wire only – up to .020" (0.508mm)
- All edges of lock are lip safe for intraoral use
- Fine tips for easy intraoral access
- Pliers will cut wires up to the very tip
- Hard tool steel inserts diamond honed

i00552

Miniature Cutter

- Stainless steel
- Soft ligature wire only – up to .012" (0.305mm)
- Hard tool steel inserts diamond honed
- Lip safe

i00551

Ligature and Hard Wire Cutter

- Stainless steel
- Pliers are designed for cutting wires with minimum force
- Cuts to maximum of .022" x .028" (0.559mm x 0.711mm)
- Hard tool steel inserts

i00553

Heavy Wire Cutter

- Hard tool steel insert
- Cutting capacity up to .040" (1.016mm) in the rear area, .024" (0.610mm) in front
- Hard tool steel inserts

i00265

LIGATION PLIERS AND INSTRUMENTS

Ligature Tying Plier (Coon)

- Semi-automatic
- Locking channel is chamfered and burr-free to allow wire to slide before locking without being cut
- Tips are thin allowing close contact to bracket
- Up to .012" (0.305mm) soft wire

i00153

Module Placing Plier

- For initial placing of force modules
- Ideal for placing ligatures and separators
- Easy access to difficult areas (posterior)
- Reduces module breakage
- Patient safe, easy spring-back action

i00810

Ligature Tucker and Tier (Broussard™)

- Stainless steel
- One end twists steel ligature into a 'tie'
- The other 'tucks' twisted wire

i00274

Ligature Tucker

- Straight notched tip at one end for anterior brackets
- Angled notched tip at other end for posterior brackets
- Slot in tips is chamfered to avoid breakage of ligature wires
- Tips are smoothed to avoid hurting tissue

i00273

Needle Holder Small Narrow Tip (Mathieu)

- Precision made ligating instrument
- With ratchet lock handle
- Free sliding inner spring opens beaks when lock is released
- Tips are serrated and carbide coated for positive gripping of ligature wires and modules; also to reduce wear
- 5.40" (13.7cm) long
- Ligature wire up to .016" (0.406mm)

i00028

Needle Holder Small (Mathieu)

- Precision made ligating instrument lip-safe beaks
- With ratchet lock handle
- Free sliding inner spring opens beaks when lock is released
- Tips are serrated and carbide coated for positive gripping of ligature wires and modules; also to reduce wear
- 5 1/4" (13cm) long
- Ligature wire up to .016" (0.406mm)

i00030

Mosquito Hemostat

- 4.75" (12cm) long
- With locking handle
- Serrated tips for positive gripping

i00124

BAND AND BRACKET REMOVAL/SCALERS

Posterior Band Removing Plier

- Long chisel tip with carbide insert
- Facilitates removal of posterior bands
- With replaceable occlusal nylon pads
- Stainless steel
- Will stay sharp
- Box joint

i00347

Replacement pads (pkg of 10)
i00357

Direct Bond Removing Plier

- Wedges between both edges of the base and the tooth surface and lifts off with virtually no stress
- Grips firmly for occlusal-gingival or mesial-distal use
- Hard tool steel insert

Narrow i00545
Wide i00546

Utility Scaling and Band Seating Instrument (Schure)

- Extra hard stainless steel
- Precision knurled handle
- Sharp scaling shape on one end and serrated band seating tip on the other
- Tips are heat-treated to maintain sharp edge for extended use
- New narrower scaller tip

i00349

Band Pusher/Scaler (Guequierre)

- Extra hard stainless steel
- Dual scaling surface
- One end has sharp curved scaling head, and serrated tip on the other

i00358

SPECIALIZED INSTRUMENTS

Cap Removal Instrument

- To remove caps from convertible tubes
- Replaceable blade provides leverage when removing cap
- Tip of blade fits securely in arch slot of tube
- With 10 blades
- Stainless steel handle and blade

i00557

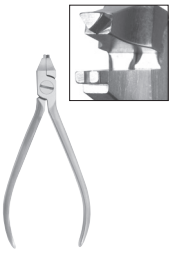
Replacement blades (pkg of 5)
i00559

Modular Omega Plier (RMO®)

- For adjusting the expansion or contraction of the Omega loop on the Bimetric Distalizing Arch (Wilson®)
- Hook on round end to hold

Omega loop
i00548 W

Replacement tips (pkg of 2)
i00549 W



Crimpable Hook Plier

- For attaching crimpable hooks securely to arch wires with minimum pressure
- Stainless steel

i00129

INSTRUMENT LUBRICATION

RMO Instrument Lubricant

- Technical grade white oil that can be applied after drying and prior to sterilization
- Improves the life of the instrument
- Proves a fast and economical solution for preventing rust and protecting cutting edges
- Regular treatment reduces the danger of oxidation

J00201

CARE AND MAINTENANCE / STERILIZATION / WARRANTY

CARE AND MAINTENANCE

LUBRICATION (RMO® Instrument Lubricant - #J00201) – RMO® recommends weekly lubrication of all instruments (depending on use).

RMO® has chosen a hi-tech material for its standard plier tip inserts which provides the most superior properties for orthodontic applications. This ferrous material is extremely strong, resistant to abrasion, flexible without fracturing in thin cross sections, and exceptionally durable. These materials combined with box-jointed stainless steel forgings give you excellent value for your instrument dollar. The materials require your participation in proper care however, in order to provide maximum potential to your practice.

H_2O - One of the most important factors in the safe and effective cleaning and sterilization of your valuable instrument investment is water quality.

Water in many municipal supplies can contain high levels of chlorine, chloramines, iron, sulfur, plus other trace elements that can damage your pliers. Tap water used to dilute cleaning solutions and for rinsing pliers prior to sterilization can cause severe damage. Chemicals in tap water can also neutralize rust inhibitors, causing a corrosive effect on plier tips even when you are spending the time and money to use the right materials. We highly recommend that your office use distilled, R/O, or filtered water for mixing your cleaning solutions, combined with a no-rinse formula for cleaning solutions.

STERILIZATION

RMO® STRONGLY RECOMMENDS DRY HEAT STERILIZATION FOR INSERTED ORTHODONTIC PLIERS AS THE OPTIMUM METHOD OF INFECTION CONTROL. Other methods of sterilization can be adapted to the non-stainless materials used in many inserted orthodontic pliers, but the following guidelines must be followed carefully.

DRY HEAT STERILIZATION

Because of the non-stainless characteristics of a vast majority of orthodontic plier tip materials, Rapid Dry Heat Sterilization became the most widely used method of infection control in this dental specialty. Between rapid cycle turn-around and large load capacity, it was the logical choice for clinicians seeking to protect their substantial instrument investment. Despite advances in materials technology, Dry Heat remains one of the most sensible choices for safety and efficacy in a busy orthodontic practice.

- Clean in an ultrasonic unit for 10 minutes, with a no-rinse general purpose solution that includes a rust inhibitor. Keep tips open during cleaning.
- Dry instruments with a compressed air blast, towel, or allow to drain for 5 minutes if using a no-rinse solution.
- Place pliers on rack or cassette and load sterilizer according to manufacturer's instructions. Loading method should allow plier tips to remain open during sterilization cycle.
- After sterilization cycle is complete, lubricate pliers with a silicon (non-petroleum) lubricant. DO NOT USE TAP WATER during any sterilization process, and always dry instruments whenever they are rinsed.

CHEMCLAVE – (Unsaturated Chemical Vapor)

- Clean in an ultrasonic unit for 10 minutes with a no-rinse general purpose solution that includes a rust inhibitor. Keep tips open during cleaning.
- Dry instruments with a compressed air blast, towel, or allow to drain for 5 minutes if using a no-rinse solution.
- Load pliers on tray, placing layers of paper towels between instruments. Loading method should allow plier tips to remain open during sterilization cycle.
- Sterilize according to manufacturer's instructions.
- After sterilization cycle is complete, depressurize equipment and allow pliers to cool.
- Remove instruments and make sure they are dry prior to storage.
- Lubricate pliers with a silicon (non-petroleum) lubricant. DO NOT USE TAP WATER during any sterilization process and always dry instruments whenever they are rinsed.

AUTOCLAVE

Because of the high levels of moisture in the autoclave process, this method can be damaging to ferrous plier tips and is not generally recommended unless instruments are 100% stainless steel or tungsten carbide inserted.

- Clean in an ultrasonic unit for 10 minutes with a no-rinse general purpose solution that includes a rust inhibitor. Keep tips open during cleaning.
- Dry or drain instruments and dip in instrument milk.
- Load pliers on tray. Loading method should allow plier tips to remain open during sterilization cycle.
- Sterilize according to manufacturer's instructions.
- After sterilization cycle is complete, depressurize equipment and allow pliers to cool.
- Remove instruments and make sure they are dry prior to storage.
- Lubricate pliers with a silicon (non-petroleum) lubricant. DO NOT USE TAP WATER during any sterilization process and always dry instruments whenever they are rinsed.

COLD STERILIZATION

CDC and ADA guidelines federally mandate the use of heat sterilization for instruments used in dental care. Many professional offices use cold sterilization/high level disinfectants for holding solutions and processing of heat sensitive items. If your office uses these types of products, please observe the following recommendations for avoiding damage to your pliers:

- Always ultrasonically clean prior to immersion in high level disinfectants and cold sterile solutions using the same guidelines as specified in heat sterilization methods.
- If using glutaraldehyde solutions, use only those that are non-acidic in composition and include a rust inhibitor.
- Avoid contact with quarternary ammonium compounds and iodophors.
- Keep plier tips open in liquid. Avoid immersion overnight in these chemical solutions.
- If solutions require dilution, DO NOT USE TAP WATER. Use distilled, R/O, or filtered water free of errant chemicals.
- Dry instruments immediately after rinsing.
- Lubricate frequently with a silicon (non-petroleum) lubricant.

WARRANTY INFORMATION

- All RMO® SCHWEICKHARDT Instruments are fully guaranteed against corrosion and separation of cutting inserts from the instruments for three years from the purchase date.
- All RMO® SCHWEICKHARDT Instruments are fully guaranteed for three years to be free of defects in materials and workmanship.
- Any Instruments subjected to misuse, abuse, or improper care and/or maintenance will void all warranty claims

RETURN

- All RMO® SCHWEICKHARDT Instruments which are unused, unopened, and in the original package may be returned for full credit of the purchase price within 90 days of invoice.
- All RMO® SCHWEICKHARDT Instruments, if defective and not misused or abused in any manner may be return to RMO® within 90 days for repair, replacement, or refund of the purchase price.

REPAIR

For RMO® SCHWEICKHARDT Instruments outside the warranty, please contact RMO® customer service or your sales representative fro repair recommendations.

To order, please contact your RMO® Sales Representative or call 800.525.6375

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