# PHOENIX
## ORTHODONTICS

Since 1990

Volume 9.3

**PHOENIX**
ORTHODONTICS
Since 1990

*Phoenix Premium Grade Archwires, Force and Appliance Systems provide consistent, reliable and predictable performance.*

*Enhance your clinical efficiency.*

*Achieve your treatment goals on time, with excellent results and greater patient comfort with a wide range of Phoenix products.*

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Since 1990

**Made in USA**

We estimate over 98% of our products are made in the USA. Country of origin is provided for those products that are the exception.

Our focus at Phoenix from the beginning has been to provide the highest quality products available with outstanding service at a reasonable cost. This combination and your support has allowed us to grow and offer an even wider assortment of products. All are designed to advance clinical efficiency and in many instances increase patient comfort. We welcome your thoughts as we continue to work towards your complete satisfaction.

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Pre-welded band assemblies and other custom ordered and produced items are not returnable.

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# BRACKET SYSTEMS

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# Phoenix Optimal 2x Twin Bracket System

A low profile system with rounded facial contours for patient comfort. Clinicians benefit from enhanced design features provided by state-of-the-art metal injection molding (MIM) manufacturing.

- Rhomboid bracket and pad design.
- Permanent ID marks enhanced with a full color code system assists accurate bonding preparation.
- Recessed center scribe line aids positioning and seating.

- True compound contour brackets and bases with specific anatomy matching the middle one third of each tooth. A better fit and a stronger bond.
- Fully radiused slot contact points reduce binding of wires in rotations and vertical discrepancies.

- Easy ligation tie wing areas.
- Level slot alignment with torque in base reduces arch wire finishing bends.

- Micro etched 80 gauge mesh increases shear strength by 35% and provides a color contrast when applying adhesive, assuring complete coverage.

## Offset – Standard Bicuspids

- Brazing alloy is steel colored for a premium finish and is highly tarnish resistant.

# Phoenix Optimal 2x Twin Bracket System

| Maxillary | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Central | 22 | 5 | 3.5 | 0.91 | ● | 511-181UR/22<br>511-181UL/22 | 511-221UR/22<br>511-221UL/22 |
| Central | 17 | 4 | 3.5 | 0.91 | ● | 511-181UR/17<br>511-181UL/17 | 511-221UR/17<br>511-221UL/17 |
| Central | 12 | 5 | 3.5 | 0.91 | ● | 511-181UR/12<br>511-181UL/12 | 511-221UR/12<br>511-221UL/12 |
| Lateral | 10 | 8 | 2.9 | 1.27 | ● | 511-182UR/10<br>511-182UL/10 | 511-222UR/10<br>511-222UL/10 |
| Lateral | 8 | 9 | 2.9 | 1.27 | ● | 511-182UR/8<br>511-182UL/8 | 511-222UR/8<br>511-222UL/8 |
| Cuspid HK | -7 | 8 | 3.0 | 0.84 | ● | 511-183URHK<br>511-183ULHK | 511-223URHK<br>511-223ULHK |
| Cuspid HK | 0 | 8 | 3.0 | 0.84 | ● | 511-183URHK/OT<br>511-183ULHK/OT | 511-223URHK/OT<br>511-223ULHK/OT |
| Bicuspid | -7 | 0 | 3.0 | 0.84 | ● | 511-184,5U | 511-224,5U |
| Bicuspid HK | -7 | 0 | 3.0 | 0.84 | ● | 511-184,5URHK<br>511-184,5ULHK | 511-224,5URHK<br>511-224,5ULHK |
| Bicuspid Offset<br>Bicuspid Offset HK | -7<br>-7 | 0<br>0 | 3.0<br>3.0 | 0.84<br>0.84 | ●<br>● | 511-184,5UOF<br>511-184,5UROFHK<br>511-184,5ULOFHK | 511-224,5UOF<br>511-224,5UROFHK<br>511-224,5ULOFHK |

| Mandibular | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Anteriors | -6 | 0 | 2.5 | 1.27 | ● | 511-181,2/-6 | 511-221,2/-6 |
| Anteriors | 0 | 0 | 2.5 | 1.27 | ● | 511-181,2/0 | 511-221,2/0 |
| Cuspid HK | -6 | 3 | 3.0 | 0.81 | ● | 511-183LRHK<br>511-183LLHK | 511-223LRHK<br>511-223LLHK |
| Cuspid HK | 0 | 3 | 3.0 | 0.81 | ● | 511-183LRHK/OT<br>511-183LLHK/OT | 511-223LRHK/OT<br>511-223LLHK/OT |
| 1st Bicuspid | -12 | 0 | 3.0 | 0.81 | ● | 511-184L | 511-224L |
| 1st Bicuspid HK | -12 | 0 | 3.0 | 0.81 | ● | 511-184LRHK<br>511-184LLHK | 511-224LRHK<br>511-224LLHK |
| 1st Bicuspid Offset | -12 | 0 | 3.0 | 0.81 | ● | 511-184LOF | 511-224LOF |
| 1st Bicuspid Offset HK | -12 | 0 | 3.0 | 0.81 | ● | 511-184LROFHK<br>511-184LLOFHK | 511-224LROFHK<br>511-224LLOFHK |
| 2nd Bicuspid | -17 | 0 | 3.0 | 0.81 | ● | 511-185L | 511-225L |
| 2nd Bicuspid HK | -17 | 0 | 3.0 | 0.81 | ● | 511-185LRHK<br>511-185LLHK | 511-225LRHK<br>511-225LLHK |
| 2nd Bicuspid Offset | -17 | 0 | 3.0 | 0.81 | ● | 511-185LOF | 511-225LOF |
| 2nd Bicuspid Offset HK | -17 | 0 | 3.0 | 0.81 | ● | 511-185LROFHK<br>511-185LLOFHK | 511-225LROFHK<br>511-225LLOFHK |

**Optimal 2x Twin System** 10/Pkg.

# Aurora Clear Twin Bracket System

- The transparent clear choice for patient aesthetics; bracket virtually disappears regardless of tooth shade, providing unmatched aesthetics.
- Absolutely no reflection or surface glare from this polycrystalline ceramic material.
- Low profile design reduces occlusal interference, allowing placement of brackets on both arches of patients desiring the complete cosmetic look.

- Full rotational control provided by the twin tie wing design.
- Smooth rounded tie wings and hooks enhance patient comfort.
- Fire polished slot to reduce binding and notching of archwires.
- Rhomboid angulation assists accurate placement.

- Proven base design offers predictable band strength and consistent debonding.

- Blue indicator assists with placement accuracy.

# Aurora Clear Twin Ceramic System

| Maxillary | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Central | 17 | 4 | 3.1 | 1.04 | ● | 516-181UR/17<br>516-181UL/17 | 516-221UR/17<br>516-221UL/17 |
| Central | 12 | 5 | 3.1 | 1.04 | ● | 516-181UR/12<br>516-181UL/12 | 516-221UR/12<br>516-221UL/12 |
| Lateral | 10 | 8 | 3.0 | 1.52 | ● | 516-182UR/10<br>516-182UL/10 | 516-222UR/10<br>516-222UL/10 |
| Lateral | 8 | 9 | 3.0 | 1.52 | ● | 516-182UR/8<br>516-182UL/8 | 516-222UR/8<br>516-222UL/8 |
| Cuspid HK | -7 | 8 | 3.1 | 1.04 | ● | 516-183URHK<br>516-183ULHK | 516-223URHK<br>516-223ULHK |
| Cuspid HK | 0 | 8 | 3.1 | 1.04 | ● | 516-183URHK/OT<br>516-183ULHK/OT | 516-223URHK/OT<br>516-223ULHK/OT |
| Bicuspid HK | -7 | 0 | 3.1 | 1.04 | ● | 516-184,5URHK<br>516-184,5ULHK | 516-224,5URHK<br>516-224,5ULHK |

| Mandibular | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Anteriors | -6 | 0 | 3.0 | 1.52 | ● | 516-181,2/-6 | 516-221,2/-6 |
| Anteriors | 0 | 0 | 3.0 | 1.52 | ● | 516-181,2/0 | 516-221,2/0 |
| Cuspid HK | -6 | 3 | 3.1 | 1.04 | ● | 516-183LRHK<br>516-183LLHK | 516-223LRHK<br>516-223LLHK |
| Cuspid HK | 0 | 3 | 3.1 | 1.04 | ● | 516-183LRHK/OT<br>516-183LLHK/OT | 516-223LRHK/OT<br>516-223LLHK/OT |
| 1st Bicuspid HK | -12 | 0 | 3.1 | 1.04 | ● | 516-184LRHK<br>516-184LLHK | 516-224LRHK<br>516-224LLHK |
| 2nd Bicuspid HK | -17 | 0 | 3.1 | 1.04 | ● | 516-185LRHK<br>516-185LLHK | 516-225LRHK<br>516-225LLHK |

5/Pkg.

# Phoenix Crystal Clear Twin System

**Made in Austria**

An innovative new material using medical grade and highly biocompatible copolymers with a small amount of ceramic to increase strength and hardness. It has passed biocompatible tests of skin sensitization, cytotoxicity, oral toxicity and mutagen and no leakage of PBA. The material is 3D printed into each bracket specification with exacting tolerances in all dimensions.

*

- Textured base bonds and debonds like metal, using your normal adhesives.
- Safe to use. Unlike mono or polycrystalline ceramic brackets, Crystal Clear will not damage opposing enamel and is appropriate for use on the lower arch for maximum aesthetic appearance. Reduced breakage from occlusal forces or during removal, compared to traditional mono or polycrystalline brackets.

*

- The true twin design at all positions treats as you would with metal twins and sliding mechanics are better than any ceramic.
- The low profile design offers soft curved labial surfaces for the highest degree of patient comfort. They have a very soft feel, unlike any other aesthetic or metal bracket.

- Perfectly clear and incredibly stain resistant throughout normal or extended treatment times.
- Durable in use. Withstands torque application without deformation and outstanding wear resistance.
- Low slot friction for outstanding sliding mechanics.

* These images are showing the textured base as you look down through the bracket. All brackets are clear, as the profile of the last image shows, when bonded to the teeth.

# Phoenix Crystal Clear Twin System

| Maxillary | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Central | 17 | 4 | 3.35 | .99 | ● | 502-181UR/17<br>502-181UL/17 | 502-221UR/17<br>502-221UL/17 |
| Central | 11 | 5 | 3.35 | .99 | ● | 502-181UR/11<br>502-181UL/11 | 502-221UR/11<br>502-221UL/11 |
| Lateral | 10 | 8 | 2.97 | 1.25 | ● | 502-182UR/10<br>502-182UL/10 | 502-222UR/10<br>502-222UL/10 |
| Lateral | 8 | 9 | 2.97 | 1.25 | ● | 502-182UR/8<br>502-182UL/8 | 502-222UR/8<br>502-222UL/8 |
| Cuspid HK | 0 | 8 | 3.35 | .99 | ● | 502-183URHK/OT<br>502-183ULHK/OT | 502-223URHK/OT<br>502-223ULHK/OT |
| Bicuspid HK | -7 | 0 | 3.35 | .99 | ● | 502-184,5URHK<br>502-184,5ULHK | 502-224,5URHK<br>502-224,5ULHK |

| Mandibular | Torque | Angulation | Width mm | In/Out mm | ID | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|---|
| Anteriors | -6 | 0 | 2.87 | 1.40 | ● ● | 502-181,2/-6 | 502-221,2/-6 |
| Anteriors | 0 | 0 | 2.87 | 1.40 | ● ● | 502-181,2/0 | 502-221,2/0 |
| Cuspid HK | 0 | 3 | 3.35 | .68 | ● | 502-183LRHK/OT<br>502-183LLHK/OT | 502-223LRHK/OT<br>502-223LLHK/OT |
| 1st Bicuspid HK | -12 | 2 | 3.35 | .76 | ● | 502-184LRHK<br>502-184LLHK | 502-224LRHK<br>502-224LLHK |
| 2nd Bicuspid HK | -17 | 2 | 3.35 | .76 | ● | 502-185LRHK<br>502-185LLHK | 502-225LRHK<br>502-225LLHK |

5/Pkg.

Made in Austria.

# Value Line Twin System

- Features a one-piece design with a bright labial surface and a fine grid pattern base. Bond strength replicates foil mesh, as bracket bases are micro etched.
- Torque in base with rhomboid shape and center scribe lines.
- Cuspids have hooks.
- All bicuspids are plain or have optional hooks.
- Metal injection molded for accurate tolerances and smooth, radiused, comfortable attachments.

# Value Line Bondable Brackets & Tubes-Roth*

| Maxillary | Color Code | Torque | Angulation | Width mm | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|
| Central | ● | 12 | 5 | 3.8 | 515-181UR<br>515-181UL | 515-221UR<br>515-221UL |
| Lateral | ● | 8 | 9 | 3.0 | 515-182UR<br>515-182UL | 515-222UR<br>515-222UL |
| Cuspid HK | ● | -2 | 13 | 3.0 | 515-183URH<br>515-183ULH | 515-223URH<br>515-223ULH |
| Bicuspid | ● | -7 | 0 | 3.0 | 515-184,5U | 515-224,5U |
| Bicuspid HK | ● | -7 | 0 | 3.0 | 515-184,5URH<br>515-184,5ULH | 515-224,5URH<br>515-224,5ULH |

| Mandibular | Color Code | Torque | Angulation | Width mm | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|
| Central/Lateral | | 0 | 0 | 2.5 | 515-181,2L | 515-221,2L |
| Cuspid HK | ● | -11 | 7 | 3.0 | 515-183LRH<br>515-183LLH | 515-223LRH<br>515-223LLH |
| 1st Bicuspid | ○ | -17 | 0 | 3.0 | 515-184L | 515-224L |
| 1st Bicuspid HK | ○ | -17 | 0 | 3.0 | 515-184LRH<br>515-184LLH | 515-224LRH<br>515-224LLH |
| 2nd Bicuspid | ● | -22 | 0 | 3.0 | 515-185L | 515-225L |
| 2nd Bicuspid HK | ● | -22 | 0 | 3.0 | 515-185LRH<br>515-185LLH | 515-225LRH<br>515-225LLH |

10/Pkg.

** The Phoenix version of the Roth Rx is not implied to be an exact version of any other system, nor do we claim any endorsement of Dr. Roth.*

# Value Line Bondable Brackets & Tubes-MBT*

| Maxillary | Color Code | Torque | Angulation | Width mm | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|
| Central | ● | 17 | 4 | 3.5 | 514-181UR<br>514-181UL | 514-221UR<br>514-221UL |
| Lateral | ● | 8 | 9 | 2.9 | 514-182UR<br>514-182UL | 514-222UR<br>514-222UL |
| Cuspid HK | ● | -7 | 9 | 3.2 | 514-183URH<br>514-183ULH | 514-223URH<br>514-223ULH |
| Bicuspid | ● | -7 | 0 | 3.0 | 514-184,5U | 514-224,5U |
| Bicuspid HK | ● | -7 | 0 | 3.0 | 514-184,5URH<br>514-184,5ULH | 514-224,5URH<br>514-224,5ULH |

| Mandibular | Color Code | Torque | Angulation | Width mm | .018 Slot | .022 Slot |
|---|---|---|---|---|---|---|
| Central/Lateral | | -6 | 0 | 2.6 | 514-181,2L | 514-221,2L |
| Cuspid HK | ● | -6 | 3 | 3.2 | 514-183LRH<br>514-183LLH | 514-223LRH<br>514-223LLH |
| 1st Bicuspid | ● | -12<br>-12 | 2<br>2 | 3.0<br>3.0 | 514-184LR<br>514-184LL | 514-224LR<br>514-224LL |
| 1st Bicuspid HK | ● | -12 | 2 | 3.0 | 514-184LRH<br>514-184LLH | 514-224LRH<br>514-224LLH |
| 2nd Bicuspid | ● | -17<br>-17 | 2<br>2 | 3.0<br>3.0 | 514-185LR<br>514-185LL | 514-225LR<br>514-225LL |
| 2nd Bicuspid HK | ● | -17 | 2 | 3.0 | 514-185LRH<br>514-185LLH | 514-225LRH<br>514-225LLH |

10/Pkg.

** The Phoenix version of the McLaughlin, Bennett, Trevisi System is claimed to be a duplication of any other, nor do we imply that it is endorsed in any way by Drs. McLaughlin, Bennett, or Trevisi.*

# BUCCAL TUBES FOR BONDING AND WELDING

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# Optimal 2x Ultra Low Profile Bondable Buccal Tubes

NEW OPTIMAL 2X ULTRA LOW PROFILE BUCCAL TUBES FOR FIRST AND SECOND MOLARS offer reduced occlusal interference, provide total control, and increase patient comfort. They complete the Optimal 2x bracket system and can be used to enhance treatment with any torque in base design bracket systems. Metal injection molded (MIM) for strength, accuracy and structural integrity.

Mesial distal scribe lines indicate the height of the arch slot. Recessed round center mark aids is seating the tube while increasing accurate alignment.

Parallel tube surfaces also aid positioning while increasing secure handling during bonding.

Anatomical compound contoured base with pronounced developmental groove for superior fit.

Ample recessed notches assists secure handling with all commonly used instruments.

Recessed round center mark aids in seating the tube while increasing accurate alignment.

Color coded by prescription specification.

Micro etched 80 gauge mesh for maximum bond strength.

Contoured funnel entry for ease of arch wire insertion at any angle.

Bendable hook does not extend beyond the facial plane of the tube body for greater comfort and does not interfere with bonding procedures.

# Optimal 2x Ultra Low Profile Bondable Buccal Tubes

## OPTIMAL 2x ULTRA LOW PROFILE 1ST MOLARS

| | Color Code | Torque | Distal Offset | Quadrant | Bondable .018 | Bondable .022 |
|---|---|---|---|---|---|---|
| **1st Molar** 4.2mm tube length | ● | -14 | 10 | UR | 800-861 B | 800-261 B |
| | ● | -14 | 10 | UL | 800-862 B | 800-262 B |
| | ● | -20 | 0 | LR | 800-857 B | 800-257 B |
| | ● | -20 | 0 | LL | 800-858 B | 800-258 B |
| | ● | 0 | 0 | UR/LL | — | 800-263 B |
| | ● | 0 | 0 | UL/LR | — | 800-264 B |
| | ● | -10 | 0 | UR/LL | 800-865 B | 800-265 B |
| | ● | -10 | 0 | UL/LR | 800-866 B | 800-266 B |

## OPTIMAL 2x ULTRA LOW PROFILE 2ND MOLARS

| | Color Code | Torque | Distal Offset | Quadrant | Bondable .018 | Bondable .022 |
|---|---|---|---|---|---|---|
| **2nd Molar** 3.2mm tube length | ● | -14 | 10 | UR | 800-835 B | 800-235 B |
| | ● | -14 | 10 | UL | 800-836 B | 800-236 B |
| | ● | -20 | 0 | LR/UL | 800-867 B | 800-267 B |
| | ● | -20 | 0 | LL/UR | 800-868 B | 800-268 B |
| | ● | 0 | 0 | UR/LL | — | 800-269 B |
| | ● | 0 | 0 | UL/LR | — | 800-270 B |
| | ● | -10 | 0 | UR/LL | 800-855 B | 800-255 B |
| | ● | -10 | 0 | UL/LR | 800-856 B | 800-256 B |

10/Pkg.

# Optimal 2x Bondable Convertible Low Profile Buccal Tubes

**Optimal 2x Convertible Low Profile Buccal Tubes** achieve stronger, more consistent bonds. Features a low profile design to reduce occlusal interference, provide greater patient comfort, and enhance hygiene.

Convertible caps are molded as an integral part of the tube. This solid one-piece construction provides a cap that converts easily and consistently. Eliminates any pre-mature conversion and any possibility of braze or solder material residue in the arch wire slot. Converts when you are ready by lift and peel with a Weingardt.

- Metal injection molded (MIM) stainless steel for strength, accuracy and structural integrity
- Full rotational control provided by the 4.2 mm length of tube
- Color coded by prescription and quadrant

- Funneled arch wire entry point for ease of wire insertion
- Torque in base for functional occlusion and finishing
- Adjustable low profile hook increases comfort

- 80 gauge micro etched bases increase bond shear strength by up to 35% compared to the same non-etched bases
- Compound contoured (6.6 mm x 3.0 mm) base
- Buccal indent naturally conforms to the molar surface, making positioning easier

| | | Color Code | Torque | Distal Offset | Quadrant | Bondable .018 | Bondable .022 |
|---|---|---|---|---|---|---|---|
| **Maxillary** | **1st Molar** | ● | -14 | 10 | UR | 800-837 B | 800-237 B |
| | | ● | -14 | 10 | UL | 800-838 B | 800-238 B |
| | | | | | | | |
| **Mandibular** | **1st Molar** | ○ | -20 | 0 | LR | 800-845 B | 800-245 B |
| | | ○ | -20 | 0 | LL | 800-846 B | 800-246 B |
| | | ● | -25 | 5 | LR | 800-821 B | 800-221 B |
| | | ● | -25 | 5 | LL | 800-822 B | 800-222 B |

10/Pkg.

## OPTIMAL MINI 2ND MOLARS

- Diagonal foil mesh for increased bond strength

- Funneled slot entry point for ease of arch wire insertion at any angle
- Recessed center of tube mark indicates slot height and aids in seating during bonding

- Small 2.5 mm tubes on curved 4.2 x 2.5 mm bases
- Adapted to fit on mesial buccal cusps of partially erupted molars

| Mini 2nd Molar | Color Code | Torque | Distal Offset | Quadrant | Bondable .018 | Bondable .022 |
|---|---|---|---|---|---|---|
| Maxillary/Mandibular 2nd | ● | -10 | 0 | UL/LR | 801-873 B | 801-273 B |
| | ● | -10 | 0 | UR/LL | 801-874 B | 801-274 B |
| Maxillary/Mandibular 2nd | ● | -25 | 0 | LR/UL | 801-871 B | 801-271 B |
| | ● | -25 | 0 | LL/UR | 801-872 B | 801-272 B |

10/Pkg. Bondable

# Mini Bondable 2nd Tubes – Low Friction Tubes – Bondable Auxiliaries

| Mini 2nd Molar – partially erupted | | Torque | Distal Offset | Quadrant | Bondable .018 Slot | Bondable .022 Slot |
|---|---|---|---|---|---|---|
| Maxillary/Mandibular 2nd | | -10 | 0 | UR/LL | 817-831 B | 817-231 B |
| Maxillary/Mandibular 2nd | | -10 | 0 | UL/LR | 817-832 B | 817-232 B |
| Mandibular 2nd | | -25 | 0 | LR | 817-833 B | 817-233 B |
| Mandibular 2nd | | -25 | 0 | LL | 817-834 B | 817-234 B |

- 2.2 mm tube on a 3.5 mm contoured and mesially extended pad
- Recessed arch wire entry point
- Buccal divot to and final positioning and seating
- Micro etched bases

10/Pkg.

| Product | Description | Item # | Quantity |
|---|---|---|---|
| **Low Friction Tube** | | | |
| | • 0.36 I.D. x 1.5 mm tube on a 4.0 x 2.5 mm base<br>• Assist slow erupting bicuspids<br>• Pull down high cuspids<br>• Lift angled second molars | 497-T Curved Base<br><br>497-T-F Flat Base | 10/Pkg.<br><br>10/Pkg. |
| **Extrusion Hook/Eyelet** | | | |
| | • Placed gingivally on cuspids and use with .014 SE/NT to extrude<br>• Tie with thread | 407 | 10/Pkg. |
| **Coil** | | | |
| | • 3.6 mm flat base<br>• 3.0 mm tall loop perpendicular to base<br>• 050 I.D. loop diameter | 513 | 10/Pkg. |
| **Extrusion Coil with Chain** | | | |
| | • Extrude gingivally impacted cuspids<br>• Open mesh for good adhesive flow, 3.9 mm diameter<br>• 1" 10K gold chain accepts threads through .030. | 408 | 1/Pkg. |
| **Habit Corrector (Tongue Spur)** | | | |
| | • Bond to either arch<br>• Discourages mesial tongue activity<br>• Curved 80 gauge mesh base | 711-THC | 10/Pkg. |

# Bondable Auxiliaries

| Product | Description | Item # | Quantity |
|---|---|---|---|
| **Round Composite Button** | | | |
| | • 3.3 mm fits where you need it<br>• Comfortable – accepts 6 oz elastics | 504-RB | 10/Pkg. |
| **Rectangular Composite Button** | | | |
| | • 2.8 x 2.0 mm size<br>• Accepts all elastics | 504-B | 10/Pkg. |
| **Eyelet, Composite** | | | |
| | • 2.75 mm with .033 I.D.<br>• Bring down high cuspids with thread or 012/014 NT wire<br>• Affect rotations | 504-E | 10/Pkg. |
| **Bite Opening Composite Ramp** | | | |
| | • 5 mm height opens bite immediately<br>• More comfortable than S.S. and will not wear enamel | 710-BR | 10/Pkg. |
| **Button, Ovoid Curved Mesh Base** | | | |
| | • 4.3 x 2 mm fits molars and bicuspids | 490-OV | 10/Pkg. |
| **Button, Rectangular Curved Base** | | | |
| | • 4.0 x 2.6 mm fits molars and bicuspids | 490-C | 20/Pkg. |
| **Button, Round Curved Base** | | | |
| | • 3.9 mm | 491-C | 10/Pkg. |
| **Button, Round** | | | |
| | • 3.5 mm | 491 | 10/Pkg. |

# Convertible Buccal Tubes – Torque in Base

| | Torque | Distal Offset | Round Tube | Quadrant | Weldable .018 Slot | Weldable .022 Slot | Bondable .018 Slot | Bondable .022 Slot |
|---|---|---|---|---|---|---|---|---|
| **Maxillary 1st Molar** | | | | | | | | |
| **Triple**[1] *(Occlusal Headgear Tube) (.018x .025 auxiliary tube is 0 degree torque)* | -10 | 8 | .045 | R | 800-805 | 800-205 | | |
| | -10 | 8 | .045 | L | 800-806 | 800-206 | | |
| | -14 | 10 | .045 | R | 800-809 | 800-209 | | |
| | -14 | 10 | .045 | L | 800-810 | 800-210 | | |
| **Combination**[2] *(Occlusal Headgear Tube)* | -10 | 8 | .045 | R | 800-803 | 800-203 | | |
| | -10 | 8 | .045 | L | 800-804 | 800-204 | | |
| | -14 | 10 | .045 | R | 800-811 | 800-211 | | |
| | -14 | 10 | .045 | L | 800-812 | 800-212 | | |
| **Combination**[1] *(Gingival Headgear Tube)* | -10 | 8 | .045 | R | 800-801 | 800-201 | | |
| | -10 | 8 | .045 | L | 800-802 | 800-202 | | |
| | -14 | 10 | .045 | R | 800-827 | 800-227 | | |
| | -14 | 10 | .045 | L | 800-828 | 800-228 | | |
| **Double Arch Slot**[1] *(.018 x .025 auxiliary tube is 0 degree torque)* | -10 | 8 | 0 | R | 800-817 | 800-217 | | |
| | -10 | 8 | 0 | L | 800-818 | 800-218 | | |
| **Single-Low Profile**[2] | -10 | 8 | 0 | R | 800-807 | 800-207 | | |
| | -10 | 8 | 0 | L | 800-808 | 800-208 | | |
| | -14 | 10 | 0 | R | 800-837 | 800-237 | 800-837 B | 800-237 B |
| | -14 | 10 | 0 | L | 800-838 | 800-238 | 800-838 B | 800-238 B |
| **Mandibular 1st Molar** | | | | | | | | |
| **Single-Low Profile**[2] | -25 | 5 | 0 | R | 800-821 | 800-221 | | |
| | -25 | 5 | 0 | L | 800-822 | 800-222 | | |
| | -20 | 0 | 0 | R | 800-845 | 800-245 | 800-845 B | 800-245 B |
| | -20 | 0 | 0 | L | 800-846 | 800-246 | 800-846 B | 800-246 B |
| **Double**[1] *(.018 x .025 auxiliary tube is 0 degree torque)* | -25 | 5 | 0 | R | 800-823 | 800-223 | | |
| | -25 | 5 | 0 | L | 800-824 | 800-224 | | |
| | -20 | 0 | 0 | R | 800-825 | 800-225 | | |
| | -20 | 0 | 0 | L | 800-826 | 800-226 | | |
| **Lip Bumper**[1] | -25 | 5 | .045 | R | 800-843 | 800-243 | | |
| | -25 | 5 | .045 | L | 800-844 | 800-244 | | |

[1] ***Tube is 3.5 mm long***
[2] ***Tube is 4.2 mm long***

***All bondable buccal tubes above are on this base.***
10/Pkg.

6.6 mm x 3.0 mm

# Optimal 2x Ultra Low Profile Weldable Buccal Tubes

## 1st Molars

| | Color Code | Torque | Distal Offset | Quadrant | Weldable .018 | Weldable .022 |
|---|---|---|---|---|---|---|
| **1st Molar** | ● | -14 | 10 | UR | 800-861 | 800-261 |
| 4.2mm tube length | ● | -14 | 10 | UL | 800-862 | 800-262 |
| | ● | -20 | 0 | LR | 800-857 | 800-257 |
| | ● | -20 | 0 | LL | 800-858 | 800-258 |
| | ● | -10 | 0 | UR/LL | 800-865 | 800-265 |
| | ● | -10 | 0 | UL/LR | 800-866 | 800-266 |

## 2nd Molars

| | Color Code | Torque | Distal Offset | Quadrant | Weldable .018 | Weldable .022 |
|---|---|---|---|---|---|---|
| **2nd Molar** | ● | -14 | 10 | UR | 800-835 | 800-235 |
| 3.2mm tube length | ● | -14 | 10 | UL | 800-836 | 800-236 |
| | ● | -20 | 0 | LR/UL | 800-867 | 800-267 |
| | ● | -20 | 0 | LL/UR | 800-868 | 800-268 |
| | ● | -10 | 0 | UR/LL | 800-855 | 800-255 |
| | ● | -10 | 0 | UL/LR | 800-856 | 800-256 |

# “Original” Series – Anatomical Molar Bands

## Maxillary 1st & 2nd Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- A buccal/cusp indent eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | *Distribution of Sizes per Tooth* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| *K12-UP-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *K12-UP-INTRO (158)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 10 | 10 | 8 | 6 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| *K12-UP-PRO (316)* | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 12 | 16 | 16 | 20 | 20 | 20 | 24 | 20 | 20 | 16 | 12 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| *K12-UP-MASTER (648)* | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 24 | 32 | 32 | 40 | 40 | 40 | 48 | 40 | 40 | 32 | 24 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

## Mandibular 1st Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- Two buccal/cusp indents and a lingual indent provide ideal conformity.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | *Distribution of Sizes per Tooth* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| *K12-LO-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *K12-LO-INTRO (158)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 10 | 10 | 8 | 6 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| *K12-LO-PRO (316)* | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 12 | 16 | 16 | 20 | 20 | 20 | 24 | 20 | 20 | 16 | 12 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| *K12-LO-MASTER (648)* | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 24 | 32 | 32 | 40 | 40 | 40 | 48 | 40 | 40 | 32 | 24 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

## Mandibular 2nd Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- A lingual indent allows for a precise fit and eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | *Distribution of Sizes per Tooth* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| *K13-LO-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *K13-LO-INTRO (158)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 12 | 10 | 10 | 8 | 6 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| *K13-LO-PRO (316)* | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 12 | 16 | 16 | 20 | 20 | 20 | 24 | 20 | 20 | 16 | 12 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| *K13-LO-MASTER (648)* | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 24 | 32 | 32 | 40 | 40 | 40 | 48 | 40 | 40 | 32 | 24 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

# “M” Series – Anatomical Molar Bands

## Maxillary 1st & 2nd Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 30 proportionally graduated half sizes assures a custom fit.
- A buccal/cusp indent eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | Distribution of Sizes per Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 29½ | 30 | 30½ | 31 | 31½ | 32 | 32½ | 33 | 33½ | 34 | 34½ | 35 | 35½ | 36 | 36½ | 37 | 37½ | 38 | 38½ | 39 | 39½ | 40 | 40½ | 41 | 41½ | 42 | 42½ | 43 | 43½ | 44 |
| *K10-UP-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - | - | - | - |
| *K10-UP-INTRO (150)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 6 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 10 | 8 | 6 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| *K10-UP-PRO (300)* | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 12 | 16 | 20 | 20 | 20 | 20 | 24 | 24 | 20 | 16 | 12 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| *K10-UP-MASTER (600)* | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 24 | 32 | 40 | 40 | 40 | 40 | 48 | 48 | 40 | 32 | 24 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

## Mandibular 1st Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 30 proportionally graduated half sizes assures a custom fit.
- Two buccal/cusp indents and a lingual indent provide ideal conformity.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | Distribution of Sizes per Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 29½ | 30 | 30½ | 31 | 31½ | 32 | 32½ | 33 | 33½ | 34 | 34½ | 35 | 35½ | 36 | 36½ | 37 | 37½ | 38 | 38½ | 39 | 39½ | 40 | 40½ | 41 | 41½ | 42 | 42½ | 43 | 43½ | 44 |
| *K10-LO-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - | - | - | - |
| *K10-LO-INTRO (150)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 6 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 10 | 8 | 6 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| *K10-LO-PRO (300)* | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 12 | 16 | 20 | 20 | 20 | 20 | 24 | 24 | 20 | 16 | 12 | 8 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| *K10-LO-MASTER (600)* | 8 | 8 | 8 | 8 | 8 | 8 | 16 | 16 | 24 | 32 | 40 | 40 | 40 | 40 | 48 | 48 | 40 | 32 | 24 | 16 | 16 | 16 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

## Mandibular 2nd Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 27 proportionally graduated half sizes assures a custom fit.
- A lingual indent allows for a precise fit and eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.

| | Distribution of Sizes per Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Catalog No./Type* | 29½ | 30 | 30½ | 31 | 31½ | 32 | 32½ | 33 | 33½ | 34 | 34½ | 35 | 35½ | 36 | 36½ | 37 | 37½ | 38 | 38½ | 39 | 39½ | 40 | 40½ | 41 | 41½ | 42 | 42½ |
| *K11-LO-TRIAL (80)* | - | - | - | - | - | 2 | 2 | 4 | 4 | 4 | 6 | 6 | 10 | 10 | 10 | 6 | 6 | 4 | 4 | 2 | - | - | - | - | - | - | - |
| *K11-LO-INTRO (150)* | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 6 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 10 | 8 | 8 | 6 | 4 | 4 | 2 | 2 | 2 | 2 | 2 |
| *K11-LO-PRO (300)* | 4 | 4 | 4 | 4 | 6 | 8 | 8 | 8 | 12 | 14 | 16 | 18 | 20 | 24 | 24 | 24 | 20 | 18 | 16 | 12 | 10 | 6 | 6 | 6 | 4 | 4 | 4 |
| *K11-LO-MASTER (600)* | 8 | 8 | 8 | 8 | 12 | 16 | 18 | 22 | 26 | 32 | 40 | 40 | 48 | 48 | 48 | 40 | 36 | 30 | 24 | 20 | 16 | 12 | 12 | 12 | 8 | 8 | 8 |

# Weldable Lingual Attachments

## Cleats *Provided loose and tumbled to smooth corners.*

| Product | Style | Length | Weldable | Pkg. |
|---|---|---|---|---|
| | Large | 8.1 mm | 829-025 | 1/Pkg. |

## Buttons – Weldable *The one piece design and domed head allows for maximum patient comfort.*

| Product | Style | Weldable | Pkg. |
|---|---|---|---|
| | Semi-Flat | 829-024 | 1/Pkg. |

## Seating Lugs – Weldable – on strips

| Product | Style | Length | Weldable | Pkg. |
|---|---|---|---|---|
| | Universal | 3.8 mm | 829-028 | 1/Pkg. |

## Sheath – Weldable

| Product | Style | Wire Size Doubled | Universal | Weldable | Pkg. |
|---|---|---|---|---|---|
| | Window w/indent | .036 | U | 829-029 | 1/Pkg. |
| | Window w/indent & ball hook mesial | .036 | UR/LL | 829-030 | 1/Pkg. |
| | | .036 | UL/LR | 829-031 | 1/Pkg. |

# ARCH WIRES

| | |
|---|---|
| Page 1-4 | Arch Forms |
| Page 5-6 | Arch Wire Alloys and Forces |
| Page 7-8 | Trans Thermal Heat Activated Nickel Titanium |
| Page 9-10 | SE Nickel Titanium |
| Page 11-12 | Pro Force Nickel Titanium |
| Page 13-14 | Molybdenum Titanium Alloy – MTA |
| Page 15-16 | Stainless Steel Resilient |

# Arch Forms

The search for the ideal arch form can be documented in research and articles dating back over one hundred years and you could reasonably conclude there is no one form suitable for all patients. Relapse occurs frequently during long term retention when the arch form has been changed greatly from what the patient initially presents. This suggests that a variety of arch forms should be employed. These forms should offer shape assortment as well as varying inter-canine and inter-molar widths.

You could objectively make a case that there are three principal shapes that occur most often: **Square** or **Broad**, **Ovoid**, and **Tapered**.

Ideally each wire should be custom contoured for each patient and that is easily done in stainless steel and MTA. All types of nickel titanium alloys do not allow this, so Phoenix offers a full range of wire alloys and forces in each form that we offer. Also note that in each form the maxillary arch follows the shape of the lower arch and is 3 to 4 mm larger to provide arch wire coordination in the majority of cases.

Symmetry iP, ideal proportion arch wires, now offers three sizes of the same ovoid shape. This gives the clinician the option of larger or smaller combinations of arches as measured by inter-canine and inter-molar widths.

# Arch Forms

**Square or Broad arches** such as the Symmetry form that offers the most width at the canines and in the posterior.
New “Small” lower now offers a combination of cuspid and molar widths.

**Ovoid arches** like Symmetry II and Symmetry III Small that offer less cuspid widths and various amounts of posterior width.

**Ovoid arches** like Symmetry iP offering combinations of cuspid and molar widths.

**Tapered arches** such as Symmetry IV Tapered.

# Arch Forms

***Available alloys and forces are listed in each form***

## SYMMETRY

## SYMMETRY II

## SYMMETRY III SMALL

## SYMMETRY IV TAPERED

Symmetry iP
ideal proportion archwires

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Symmetry iP now gives the clinician the option of two inter-canine and inter-molar widths in all types of alloys and forces. This allows for more customization for each patient in arch wire alloys that cannot be re-contoured.

The ovoid shapes also provide for an aesthetically finished smile without the dark areas associated with broad or square shapes.

**Etched Midlines**

# Arch Wire Alloys and Forces

## Trans Thermal Heat Activated Nickel Titanium

- Light continuous forces are fully active at 95 degrees F.
- Round wires easily engage in the most severely misaligned teeth.
- Square and rectangular wires can be employed earlier in treatment for torque control in all bracket systems and especially for ceramics.
- Easy ligation at room temperatures or when chilled and complete shape memory at body temperature.

## SE Nickel Titanium

- Light continuous forces at a range between Trans Thermal Heat Activated and Pro Force Nickel Titanium allows for easy engagement.
- Near constant unloading (tooth moving) forces regardless of the degree of deflection.
- Superior smooth and bright finish for reduced friction.

## Pro Force Nickel Titanium

- Progressive loading and unloading forces in a moderate range that can increase efficiency and require fewer arch wire changes. The higher the degree of deflection, the greater the return or tooth moving forces.
- Highly effective in space closure/retractions, stubborn rotations, leveling and arch form development.
- Rectangular dimensions are excellent finishing wires where complete torque control is required. Detailing in the vertical and horizontal planes is accomplished with our narrow tip three prong plier.
- Our Original nickel titanium wire that delivers the force when you need it.
- Superior smooth and bright finish for reduced friction.

## Molybdenum Titanium Alloy – MTA

- This special alloy provides forces midway between Pro Force Nickel Titanium and Stainless Steel while offering some memory benefit like nickel titanium and the bendability of stainless steel.
- The ideal retraction loop wire and the smooth finish reduces friction.
- Careful processing of this alloy has effectively eliminated breakage.
- Excellent torque control because of tight corner radii and cross sectional diagonal specifications.
- Long distal lengths of these arches allow for multiple loops and detailing while allowing treatment of second molars if desired.

## Stainless Steel

- The highest quality 304V alloys are used to produce superior tensile strength with less brittleness that could cause breakage.
- Tight torque control at less than the industry allowable standard of up to three degrees.
- Resilient Stainless Steel offers an ultra smooth bright mirror finish.
- Resilient Plus is a heat treated, stress relieved, goldtone finish with slightly higher spring and stiffness than Resilient.

**Arch Wire packaging and labeling is color matched to catalog descriptions.**

# Arch Wire Alloys and Forces

## Trans Thermal Nickel Titanium

## SE Nickel Titanium

## Pro Force Nickel Titanium

Testing Method: ANSI ADA Spec. #32, 3.1 mm deflection over a 10 mm span.
Data Capture: Unloading forces in grams at 2 mm deflection in vertical plane, rounded to nearest gram.
Sampling: Average of 10 random production lots. Load Cell: 50 N (5098 grams) with .001 grams accuracy.

# Trans Thermal Heat Activated Nickel Titanium

| DIAMETERS | SYMMETRY | SYMMETRY II |
|---|---|---|
| 016U | 212-16U | 216-16U |
| 016L | 212-16L | 216-16L |
| 018U | 212-18U | 216-18U |
| 018L | 212-18L | 216-18L |
| 020U | — | — |
| 020L | — | — |
| 014x025U | 212-14x25U | — |
| 014X025L | 212-14x25L | — |
| 016x016U | 212-16x16U | 216-16x16U |
| 016x016L | 212-16x16L | 216-16x16L |
| 016x022U | 212-16x22U | 216-16x22U |
| 016x022L | 212-16x22L | 216-16x22L |
| 016x025U | 212-16x25U | — |
| 016x025L | 212-16x25L | — |
| 017x025U | 212-17x25U | 216-17x25U |
| 017x025L | 212-17x25L | 216-17x25L |
| 018x018U | — | — |
| 018x018L | — | — |
| 018x025U | 212-18x25U | 216-18x25U |
| 018x025L | 212-18x25L | 216-18x25L |
| 019x025U | 212-19x25U | 216-19x25U |
| 019x025L | 212-19x25L | 216-19x25L |
| 020x020U | — | — |
| 020x020L | — | — |
| 021x025U | 212-21x25U | 216-21x25U |
| 021x025L | 212-21x25L | 216-21x25L |
| | **Center Stop Not Available** | **Center Stop Not Available** |

# Trans Thermal Heat Activated Nickel Titanium

| Wire Size | Trans Thermal |
|---|---|
| 013U | — |
| 014U | — |
| 016U | 249-16U |
| 018U | 249-18U |
| 020U | — |
| 014x025U | 249-14x25U |
| 016x022U | 249-16x22U |
| 016x025U | 249-16x25U |
| 017x025U | 249-17x25U |
| 018x025U | 249-18x25U |
| 019x025U | 249-19x25U |
| 018x018U | 249-18x18U |
| 020x020U | 249-20x20U |
| | |
| 013L2 | — |
| 014L2 | — |
| 016L2 | 249-16L2 |
| 018L2 | 249-18L2 |
| 020L2 | — |
| 014x025L2 | 249-14x25L2 |
| 016x022L2 | 249-16x22L2 |
| 016x025L2 | 249-16x25L2 |
| 017x025L2 | 249-17x25L2 |
| 018x025L2 | 249-18x25L2 |
| 019x025L2 | 249-19x25L2 |
| 018x018L2 | 249-18x18L2 |
| 020x020L2 | 249-20x20L2 |
| | |
| 013L1 | — |
| 014L1 | — |
| 016L1 | 249-16L1 |
| 018L1 | 249-18L1 |
| 020L1 | — |
| 014x025L1 | 249-14x25L1 |
| 016x022L1 | 249-16x22L1 |
| 016x025L1 | 249-16x25L1 |
| 017x025L1 | 249-17x25L1 |
| 018x025L1 | 249-18x25L1 |
| 019x025L1 | 249-19x25L1 |
| 018x018L1 | 249-18x18L1 |
| 020x020L1 | 249-20x20L1 |

**Center Stop Not Available**

**Light continuous forces**

**Fully active at 95°F with complete shape memory**

**Round wires engage easily in the most severe malocclusions**

**Square and rectangular wires can be employed earlier in treatment**

**10/Pkg.**

**Etched midline marks**
**3 upper**
**1 lower**

**Symmetry iP Etched Midlines**

# SE Nickel Titanium

| DIAMETERS | SYMMETRY* | SYMMETRY SMALL | SYMMETRY II* | SYMMETRY III SMALL | SYMMETRY IV TAPERED | ORIGINAL RCS[1] |
|---|---|---|---|---|---|---|
| 012U | 205-12U | — | 206-12U | 234-12U | 235-12U | — |
| 012L | 205-12L | — | 206-12L | 234-12L | 235-12L | — |
| 014U | 205-14U | — | 206-14U | 234-14U | 235-14U | 236-14U |
| 014L | 205-14L | 205SM-14L | 206-14L | 234-14L | 235-14L | 236-14L |
| 016U | 205-16U | — | 206-16U | 234-16U | 235-16U | 236-16U |
| 016L | 205-16L | 205SM-16L | 206-16L | 234-16L | 235-16L | 236-16L |
| 018U | 205-18U | — | 206-18U | 234-18U | 235-18U | 236-18U |
| 018L | 205-18L | 205SM-18L | 206-18L | 234-18L | 235-18L | 236-18L |
| 020U | 205-20U | — | 206-20U | 234-20U | 235-20U | 236-20U |
| 020L | 205-20L | 205SM-20L | 206-20L | 234-20L | 235-20L | 236-20L |
| 014x025U | 205-14x25U* | — | 206-14x25U* | — | — | — |
| 014x025L | 205-14x25L* | — | 206-14x25L* | — | — | — |
| 016x016U | 205-16x16U* | — | 206-16x16U* | 234-16x16U | 235-16x16U | 236-16x16U |
| 016x016L | 205-16x16L* | — | 206-16x16L* | 234-16x16L | 235-16x16L | 236-16x16L |
| 016x022U | 205-16x22U | — | 206-16x22U | 234-16x22U | 235-16x22U | 236-16x22U |
| 016x022L | 205-16x22L | 205SM-16x22L | 206-16x22L | 234-16x22L | 235-16x22L | 236-16x22L |
| 016x025U | 205-16x25U* | — | 206-16x25U* | — | — | — |
| 016x025L | 205-16x25L* | — | 206-16x25L* | — | — | — |
| 017x025U | 205-17x25U | — | 206-17x25U | 234-17x25U | 235-17x25U | 236-17x25U |
| 017x025L | 205-17x25L | 205SM-17x25L | 206-17x25L | 234-17x25L | 235-17x25L | 236-17x25L |
| 018x018U | 205-18x18U* | — | 206-18x18U* | — | — | — |
| 018x018L | 205-18x18L* | — | 206-18x18L* | — | — | — |
| 018x025U | 205-18x25U | — | 206-18x25U | 234-18x25U | 235-18x25U | 236-18x25U |
| 018x025L | 205-18x25L | 205SM-18x25L | 206-18x25L | 234-18x25L | 235-18x25L | 236-18x25L |
| 019x025U | 205-19x25U | — | 206-19x25U | 234-19x25U | 235-19x25U | 236-19x25U |
| 019x025L | 205-19x25L | 205SM-19x25L | 206-19x25L | 234-19x25L | 235-19x25L | 236-19x25L |
| 020x020U | 205-20x20U* | — | 206-20x20U* | — | — | — |
| 020x020L | 205-20x20L* | — | 206-20x20L* | — | — | — |
| 021x025U | 205-21x25U* | — | 206-21x25U* | 234-21x25U | — | — |
| 021x025L | 205-21x25L* | — | 206-21x25L* | 234-21x25L | — | — |
| | *Center Stop Not Available | | *Center Stop Not Available | Center Stop Not Available | Center Stop Not Available | Center Stop Not Available |

# Symmetry iP

**A Proprietary & Premium Product**

*Exclusively Phoenix-USA*

| Wire Size | SE Nickel Titanium |
|---|---|
| 013U | 245-13U |
| 014U | 245-14U |
| 016U | 245-16U |
| 018U | 245-18U |
| 020U | 245-20U |
| 014x025U | 245-14x25U |
| 016x022U | 245-16x22U |
| 016x025U | 245-16x25U |
| 017x025U | 245-17x25U |
| 018x025U | 245-18x25U |
| 019x025U | 245-19x25U |
| 018x018U | 245-18x18U |
| 020x020U | 245-20x20U |
| | |
| 013L2 | 245-13L2 |
| 014L2 | 245-14L2 |
| 016L2 | 245-16L2 |
| 018L2 | 245-18L2 |
| 020L2 | 245-20L2 |
| 014x025L2 | 245-14x25L2 |
| 016x022L2 | 245-16x22L2 |
| 016x025L2 | 245-16x25L2 |
| 017x025L2 | 245-17x25L2 |
| 018x025L2 | 245-18x25L2 |
| 019x025L2 | 245-19x25L2 |
| 018x018L2 | 245-18x18L2 |
| 020x020L2 | 245-20x20L2 |
| | |
| 013L1 | 245-13L1 |
| 014L1 | 245-14L1 |
| 016L1 | 245-16L1 |
| 018L1 | 245-18L1 |
| 020L1 | 245-20L1 |
| 014x025L1 | 245-14x25L1 |
| 016x022L1 | 245-16x22L1 |
| 016x025L1 | 245-16x25L1 |
| 017x025L1 | 245-17x25L1 |
| 018x025L1 | 245-18x25L1 |
| 019x025L1 | 245-19x25L1 |
| 018x018L1 | 245-18x18L1 |
| 020x020L1 | 245-20x20L1 |

**Center Stop Not Available**

## SE Nickel Titanium

**Light continuous forces at a range between Trans Thermal and Pro Force Nickel Titanium allows for easy engagement.**

**Near constant unloading (tooth moving) forces regardless of the degree of deflection.**

**10/Pkg.**

**Etched midline marks**
**3 upper**
**1 lower**

***"Small" lower has one etched mid line and an additional etch mark 20 mm distal of mid line on right side.***

**** Add CS to part number to receive no drift center stop feature.***
***Example: 206CS-16x22U is Symmetry II form with center stop size 016x022 upper***

**Applies to page 3-9**

**Symmetry iP Etched Midlines**

**(1) SE Original RCS has moderate curve of spee, lingual crown torque, and distal toe-in.**

# Pro Force Nickel Titanium

| DIAMETERS | SYMMETRY* | SYMMETRY II* |
|---|---|---|
| 012U | 200-12U | 201-12U |
| 012L | 200-12L | 201-12L |
| 014U | 200-14U | 201-14U |
| 014L | 200-14L | 201-14L |
| 016U | 200-16U | 201-16U |
| 016L | 200-16L | 201-16L |
| 018U | 200-18U | 201-18U |
| 018L | 200-18L | 201-18L |
| 020U | 200-20U | 201-20U |
| 020L | 200-20L | 201-20L |
| 016x016U | 200-16x16U* | 201-16x16U* |
| 016x016L | 200-16x16L* | 201-16x16L* |
| 016x022U | 200-16x22U | 201-16x22U |
| 016x022L | 200-16x22L | 201-16x22L |
| — | — | — |
| — | — | — |
| 017x025U | 200-17x25U | 201-17x25U |
| 017x025L | 200-17x25L | 201-17x25L |
| 018x018U | 200-18x18U* | 201-18x18U* |
| 018x018L | 200-18x18L* | 201-18x18L* |
| 018x025U | 200-18x25U | 201-18x25U |
| 018x025L | 200-18x25L | 201-18x25L |
| 019x025U | 200-19x25U | 201-19x25U |
| 019x025L | 200-19x25L | 201-19x25L |
| 020x020U | 200-20x20U* | 201-20x20U* |
| 020x020L | 200-20x20L* | 201-20x20L* |
| 021x025U | 200-21x25U | 201-21x25U |
| 021x025L | 200-21x25L | 201-21x25L |

***CENTER STOP NOT AVAILABLE***

# Pro Force Nickel Titanium

| ORIGINAL RCS [2] | "H" TYPE RCS [1] |
|---|---|
| — | — |
| — | — |
| — | 208-14U |
| — | 208-14L |
| 207-16U | 208-16U |
| 207-16L | 208-16L |
| 207-18U | 208-18U |
| 207-18L | 208-18L |
| 207-20U | 208-20U |
| 207-20L | 208-20L |
| 207-16x16U | 208-16x16U |
| 207-16x16L | 208-16x16L |
| 207-16x22U | 208-16x22U |
| 207-16x22L | 208-16x22L |
| — | — |
| — | — |
| 207-17x25U | 208-17x25U |
| 207-17x25L | 208-17x25L |
| — | — |
| — | — |
| — | 208-18x25U |
| — | 208-18x25L |
| 207-19x25U | 208-19x25U |
| 207-19x25L | 208-19x25L |
| — | — |
| — | — |
| — | — |
| — | — |
| Center Stop Not Available | Center Stop Not Available |

[1] **"H" Type RCS has straight posterior sections, no lingual crown torque, and the deepest curve of spee.**

[2] **Original RCS offers the most distal toe-in to control molar rotation in extraction cases and moderate curve of spee and lingual crown torque.**

***CENTER STOP AVAILABLE***

**Progressive loading and unloading forces in a moderate range that can increase efficiency and require fewer arch wire changes. The higher the degree of deflection, the greater the return or tooth moving forces.**

**Highly effective in space closure/ retractions, stubborn rotations, leveling and arch form development.**

**Rectangular dimensions are excellent finishing wires where complete torque is desired.**

**Detailing in the vertical and horizontal planes is accomplished with our narrow tip three prong plier.**

**Our original Nickel Titanium wire that delivers the force when you need it.**

**10/Pkg.**

**Etched midlines**
**3 upper**
**1 lower**

**** Add CS to part number to receive no drift center stop feature.***
***Example: 201CS-16x22U is Symmetry II form with center stop size 016x022 upper***

**Applies to page 3-11**

# Molybdenum Titanium Alloy – MTA

| DIAMETERS | SYMMETRY | SYMMETRY II |
|---|---|---|
| 012U | — | — |
| 012L | — | — |
| 014U | — | — |
| 014L | — | — |
| 016U | 250-16U | 252-16U |
| 016L | 250-16L | 252-16L |
| 018U | 250-18U | 252-18U |
| 018L | 250-18L | 252-18L |
| 020U | — | — |
| 020L | — | — |
| 016x022U | 250-16x22U | 252-16x22U |
| 016x022L | 250-16x22L | 252-16x22L |
| 017x025U | 250-17x25U | 252-17x25U |
| 017x025L | 250-17x25L | 252-17x25L |
| 018x025U | 250-18x25U | 252-18x25U |
| 018x025L | 250-18x25L | 252-18x25L |
| 019x025U | 250-19x25U | 252-19x25U |
| 019x025L | 250-19x25L | 252-19x25L |
| 020x020U | — | — |
| 020x020L | — | — |
| 021x025U | 250-21x25U | 252-21x25U |
| 021x025L | 250-21x25L | 252-21x25L |

**SYMMETRY "M" LOOP**

250-M-16x22

250-M-17x25

250-M-19x25

- **Space Closure**
- **Anterior Retraction and/or intrusion**
- **Reduced Force Decay compared to Stainess Steel**
- **Upper Sizes 36-46 mm (no 44) and 52 and 56 mm**
- **Lower Sizes 24-34 mm**

**5/Pkg.**

| Wire Size | MTA |
|---|---|
| 013U | — |
| 014U | — |
| 016U | — |
| 018U | — |
| 020U | — |
| 014x025U | — |
| 016x022U | 254-16x22U |
| 016x025U | — |
| 017x025U | 254-17x25U |
| 018x025U | 254-18x25U |
| 019x025U | 254-19x25U |
| 018x018U | — |
| 020x020U | — |
| | |
| 013L2 | — |
| 014L2 | — |
| 016L2 | — |
| 018L2 | — |
| 020L2 | — |
| 014x025L2 | — |
| 016x022L2 | 254-16x22L2 |
| 016x025L2 | — |
| 017x025L2 | 254-17x25L2 |
| 018x025L2 | 254-18x25L2 |
| 019x025L2 | 254-19x25L2 |
| 018x018L2 | — |
| 020x020L2 | — |
| | |
| 013L1 | — |
| 014L1 | — |
| 016L1 | — |
| 018L1 | — |
| 020L1 | — |
| 014x025L1 | — |
| 016x022L1 | 254-16x22L1 |
| 016x025L1 | — |
| 017x025L1 | 254-17x25L1 |
| 018x025L1 | 254-18x25L1 |
| 019x025L1 | 254-19x25L1 |
| 018x018L1 | — |
| 020x020L1 | — |

# Molybdenum Titanium Alloy – MTA

**This special alloy provides forces midway between Pro Force Nickel Titanium and Stainless Steel, while offering some of the memory benefit of Nickel Titanium and the bendability of Stainless Steel.**

**Careful processing of this alloy has effectively eliminated breakage.**

**Excellent for torque control**

**The ideal retraction loop wire and the smooth finish reduces friction.**

**Long distal lengths of arches allows for multiple loops and detailing, and the treatment of second molars if desired.**

**10/Pkg.**

**Etched midlines**
**3 upper**
**1 lower**

**Applies to page 3-13**

**Symmetry iP Etched Midlines**

# Stainless Steel Resilient

| DIAMETERS | SYMMETRY* | SYMMETRY SMALL | SYMMETRY II* | SYMMETRY III SMALL | SYMMETRY IV TAPERED |
|---|---|---|---|---|---|
| 012U | — | — | — | — | — |
| 012L | — | — | — | — | — |
| 014U | 100-14U | — | 101-14U | 141-14U | 117-14U |
| 014L | 100-14L | 100SM-14L | 101-14L | 141-14L | 117-14L |
| 016U | 100-16U | — | 101-16U | 141-16U | 117-16U |
| 016L | 100-16L | 100SM-16L | 101-16L | 141-16L | 117-16L |
| 018U | 100-18U | — | 101-18U | 141-18U | 117-18U |
| 018L | 100-18L | 100SM-18L | 101-18L | 141-18L | 117-18L |
| 020U | 100-20U | — | 101-20U | 141-20U | 117-20U |
| 020L | 100-20L | 100SM-20L | 101-20L | 141-20L | 117-20L |
| 016x016U | 100-16x16U | — | 101-16x16U | 141-16x16U | 117-16x16U |
| 016x016L | 100-16x16L | — | 101-16x16L | 141-16x16L | 117-16x16L |
| 016x022U | 100-16x22U | — | 101-16x22U | 141-16x22U | 117-16x22U |
| 016x022L | 100-16x22L | 100SM-16x22L | 101-16x22L | 141-16x22L | 117-16x22L |
| 016x025U | — | — | 101-16x25U | — | — |
| 016x025L | — | — | 101-16x25L | — | — |
| 017x022U | 100-17x22U | — | — | — | — |
| 017x022L | 100-17x22L | — | — | — | — |
| 017x025U | 100-17x25U | 100SM-17x25L | 101-17x25U | 141-17x25U | 117-17x25U |
| 017x025L | 100-17x25L | — | 101-17x25L | 141-17x25L | 117-17x25L |
| 018x018U | — | — | — | — | — |
| 018x018L | — | — | — | — | — |
| 018x022U | 100-18x22U | — | 101-18x22U | — | — |
| 018x022L | 100-18x22L | — | 101-18x22L | — | — |
| 018x025U | 100-18x25U | — | 101-18x25U | 141-18x25U | 117-18x25U |
| 018x025L | 100-18x25L | 100SM-18x25L | 101-18x25L | 141-18x25L | 117-18x25L |
| 019x025U | 100-19x25U | — | 101-19x25U | 141-19x25U | 117-19x25U |
| 019x025L | 100-19x25L | 100SM-19x25L | 101-19x25L | 141-19x25L | 117-19x25L |
| 020x020U | — | — | — | — | — |
| 020x020L | — | — | — | — | — |
| 021x025U | 100-21x25U | — | 101-21x25U | 141-21x25U | 117-21x25U |
| 021x025L | 100-21x25L | — | 101-21x25L | 141-21x25L | 117-21x25L |

| Wire Size | Stainless Steel |
|---|---|
| 013U | — |
| 014U | 124-14U |
| 016U | 124-16U |
| 018U | 124-18U |
| 020U | — |
| 014x025U | — |
| 016x022U | 124-16x22U |
| 016x025U | — |
| 017x025U | 124-17x25U |
| 018x025U | 124-18x25U |
| 019x025U | 124-19x25U |
| 018x018U | — |
| 020x020U | 124-20x20U |
| | |
| 013L2 | — |
| 014L2 | 124-14L2 |
| 016L2 | 124-16L2 |
| 018L2 | 124-18L2 |
| 020L2 | — |
| 014x025L2 | — |
| 016x022L2 | 124-16x22L2 |
| 016x025L2 | — |
| 017x025L2 | 124-17x25L2 |
| 018x025L2 | 124-18x25L2 |
| 019x025L2 | 124-19x25L2 |
| 018x018L2 | — |
| 020x020L2 | 124-20x20L2 |
| | |
| 013L1 | — |
| 014L1 | 124-14L1 |
| 016L1 | 124-16L1 |
| 018L1 | 124-18L1 |
| 020L1 | — |
| 014x025L1 | — |
| 016x022L1 | 124-16x22L1 |
| 016x025L1 | — |
| 017x025L1 | 124-17x25L1 |
| 018x025L1 | 124-18x25L1 |
| 019x025L1 | 124-19x25L1 |
| 018x018L1 | — |
| 020x020L1 | 124-20x20L1 |

## Stainless Steel Resilient

**Ultra smooth bright mirror finish**

**Torque control at less than the industry allowable 3°**

**100 Round/Pkg.**
**10 Square or Rectangular/Pkg.**

**Etched midlines**
**3 upper**
**1 lower**
***"Small" lower has one etched mid line and an additional etch mark 20 mm distal of mid line on right side.***

**Applies to page 3-15**

**Symmetry iP Etched Midlines**

*Thank you for using Phoenix products*

**Visit our website at phoenixorthodonticsgeorgia.com**

# SPECIAL WIRES AND WIRE AUXILIARIES

| | |
|---|---|
| Page 1 | Nickel Titanium Open Coil Springs, Distalizing Springs |
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## N/T Open Coil Springs – Variable Force

| 21” SPOOLS | ITEM # |
|---|---|
| 009x030 | 219-05-9/30 |
| 010x030 | 219-05-10/30 |
| 010x036 | 219-05-10/36 |
| 012x030 | 219-05-12/30 |
| 014x030 | 219-05-14/30 |
| 014x036 | 219-05-14/36 |

| VARIABLE FORCE COIL SPRINGS | | | |
|---|---|---|---|
| Wire Size | I.D. | *25% Compression | *50% Compression |
| .009 | .030 | 95 | 225 |
| .010 | .030 | 120 | 260 |
| .010 | .036 | 90 | 200 |
| .012 | .030 | 220 | 480 |
| .014 | .030 | 360 | 700 |
| .014 | .036 | 270 | 560 |
| .014 | .045* | 280 | 400 |

*Force in grams measured by compressing a 25 mm length to 18.75 mm (25%) and 12.5 mm (50%)

*measured 10 mm length @ 25 + 50%

## N/T Distalizing Springs

| STRAIGHT LENGTHS 3x7” | ITEM # |
|---|---|
| 010x036 | 219D-10/36 |
| 010x045 | 219D-10/45 |
| 011x045 | 219D-11/45 |

| DISTALIZING SPRINGS | | | |
|---|---|---|---|
| Wire Size | I.D. | Two Segments Compressed 2 mm | 4 mm |
| .010 | .036 | 120 | 160 |
| .010 | .045 | 110 | 140 |
| .011 | .045 | 135 | 200 |

*Force expressed in grams



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## Nickel Titanium
## C/F Constant Force Closed Coils

9 mm

12 mm

| ITEM # | | ITEM # |
|---|---|---|
| 221C-L-9 | (150gr.) | 221C-L-12 |
| 221C-M-9 | (200gr.) | 221C-M-12 |
| 221C-H-9 | (250gr.) | 221C-H-12 |
| | 10/Pkg. | |

**FORCE RATING**

| Force | Size | 2.5 mm | 5 mm | 7 mm | 10 mm | 12 mm |
|---|---|---|---|---|---|---|
| Extension Measurement (mm) / Subsequent Force Values (gms) | | | | | | |
| Light (150g) | 9 mm | 95 | 115 | 105 | 120 | 150 |
| Medium (200g) | 9 mm | 140 | 150 | 160 | 175 | 200 |
| Heavy (250g) | 9 mm | 195 | 200 | 215 | 240 | 300 |
| **Force** | **Size** | **5 mm** | **10 mm** | **15 mm** | **19 mm** | **24 mm** |
| Light (150g) | 12 mm | 95 | 100 | 105 | 115 | 150 |
| Medium (200g) | 12 mm | 140 | 150 | 160 | 180 | 200 |
| Heavy (250g) | 12 mm | 190 | 200 | 215 | 240 | 250 |

9 mm have 12 mm maximum extension
12 mm have 24 mm maximum extension

## Stainless Steel

### Open Coil Spring 010x030, 40” Spools

**ITEM #**
108O-10/30 010x030 – open

### Closed Coil Spring 010x030, 40” Spools

**ITEM #**
109C-10/30 010x030 – closed

## Mini Crimpable Stops

- Two arch wire specific sizes
- Bright shiny finish
- Tubular design crimps with Weingardt
- Smooth and comfortable

**ITEM #**

189 S Small (fits .012-.018) 50/Pkg.
189 L Large (fits .020 & all rectangular) 50/Pkg.

## Etched Stops

- Universal fit for all arch wires
- Gray oxide appearance
- Can be crimped without removing wire
- Crimp once at mesial and distal end

**ITEM #**

•181-12/22 100/Pkg.

## Split Rectangular Stops

**ITEM #**

#181-18/22
100/Pkg. as 10 strips of 10 each

## TAD Open Wall Stop

- 2 mm in length
- Fits .018 through .021 x .025 wire
- Designed to immobilize TAD vertical or cross tubes

**ITEM #**

191M 10/Pkg.

## Stop Locks

**ITEM #**

188-22 Fits all arch wires
5/Pkg.

## Wrench for Stop Locks

**ITEM #**

136SLW

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## Split Surgical Ball Hook & Stop

Works on 16x22 through 19x25 wires

**ITEM #**

182-18/22 (Italy) 10/Pkg.

## Split Curved Ball Hook & Stop

**ITEM #**

182-18/22R (Brazil)
182-18/22L
(works on 16x22 through 19x25 wires; specify right or left)
10/Pkg.

## Closed Rectangular Ball Hook & Stop

**ITEM #**

| | |
|---|---|
| 185-18 | .018x.025 |
| 185-22 | .021x.025 |

10/Pkg.

## Closed Rectangular Curved Ball Hook & Stop

**ITEM #**

| | |
|---|---|
| 184-18 | .018x.025 |
| 184-22 | .021x.025 |

10/Pkg.

## Short Crimpable Hook

**ITEM #**

192
(works on 17x25 through 19x25 wires)
20/Pkg.

# Nickel Titanium Torquing Wires

## Symmetry SE Torquing Arches

**PRE-TORQUED @ 20° IN THREE mm SIZES**

| SIZE | ITEM # |
|---|---|
| 016x022 | 230-16x22 (28) (34) (38) |
| 017x025 | 230-17x25 (28) (34) (38) |
| 019x025 | 230-19x25 (28) (34) (38) |
| 021x025 | 230-21x25 (28) (34) (38) |

5/Pkg.
28 mm – 1 mid line
34 mm – 2 mid line
38 mm – 3 mid line

**SYMMETRY**

## Phoenix Torqued RCS – Pro Force

- 20 Degrees of labial root torque placed at 34 and 38mm increments
- Align and level while providing anterior torque control
- Moderate arch width and molar rotation control

5/Pkg.

| SIZE | ITEM # |
|---|---|
| 16x25 | 246-16x25 (34-2) |
| 17x25 | 246-17x25 (34-2) |
| 19x25 | 246-19x25 (34-2) |

with 34mm torque area and two etched mid lines

| SIZE | ITEM # |
|---|---|
| 16x25 | 246-16x25 (38-3) |
| 17x25 | 246-17x25 (38-3) |
| 19x25 | 246-19x25 (38-3) |

with 38mm torque area and three etched mid lines

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## Stainless Steel Specialty Wires

### 8 Braid

**SYMMETRY**
#110

| | |
|---|---|
| 110-16x22 | (016x022) |
| 110-17x25 | (017x025) |
| 110-18x25 | (018x025) |
| 110-19x25 | (019x025) |
| 110-21x25 | (021x025) |

10/Pkg.
Specify Upper or Lower

### Co-Axial

**6 STRAND** 30' Spools

| ITEM # | |
|---|---|
| 115-SP-155 | 0155 |
| 115-SP-175 | 0175 |
| 115-SP-195 | 0195 |

### Twist

**3 STRAND** 30' Spools

| ITEM # | |
|---|---|
| 112-SP-155 | 0155 |
| 112-SP-175 | 0175 |
| 112-SP-195 | 0195 |

## Ligature Wire – Short, Angulated, Pre-Formed

| ITEM # | | |
|---|---|---|
| 107SL | .010 | 1,000/Pkg. |
| 107SL | .008 | 500/Pkg. |
| 100SL | .012 | 500/Pkg. |

## Ligature Wire – Long

| ITEM # | | |
|---|---|---|
| 107LL-08 | .008 | 1,000/Pkg. |
| 107LL-09 | .009 | 1,000/Pkg. |
| 107LL-10 | .010 | 1,000/Pkg. |
| 107LL-11 | .011 | 1,000/Pkg. |
| 107LL-12 | .012 | 1,000/Pkg. |
| 107LL-14 | .014 | 500/Pkg. |

## Kobayashi Hooks – Short

| ITEM # | | |
|---|---|---|
| 107SK-12 | .012 | |
| 107SK-14 | .014 | 100/Pkg. |

## Kobayashi Hooks – Long

| ITEM # | | |
|---|---|---|
| 107LK-10 | .010 | |
| 107LK-12 | .012 | |
| 107LK-14 | .014 | 100/Pkg. |



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## SE Nickel Titanium

| 15' SPOOLS | ITEM # |
|---|---|
| 012 | 224SP-12 |
| 014 | 224SP-14 |
| 016 | 224SP-16 |
| 018 | 224SP-18 |
| 020 | 224SP-20 |

## N/T Separating Springs

| | ITEM # |
|---|---|
| 018 Small (bicuspid) | 220-S |
| 018 Large (molar) | 220-L |

25/Pkg.

| | ITEM # | |
|---|---|---|
| 016x022 | 220-16x22N | (narrow-molar/bicuspid) |
| 016x022* | 220-16x22W | (wide-molar/molar) |
| 017x025* | 220-17x25L | (long-separator/deimpacting) |

15/Pkg.

**Ideal for molar eruption when used with 014 S/E NT and Bonded Tubes*

220-16x22N

220-16x22W

220-17x25L

## Anterior Torquing Springs

Applies torque to individual teeth.

Four sizes of springs to fit four rectangular archwires including the new 014x025 size which allows for earlier correction of needed torque, holding it longer in desired position, which should reduce relapse.

.011 heat treated cobalt chromium alloy wire applies optimum force with high fatigue resistance.

Heat-Treated Cobalt Chromium Wire

Elliptical Spring Shape

| ITEM # | | |
|---|---|---|
| 114-14/25 | | 14/25 |
| 114-17/25 | | 17/25 |
| 114-18/25 | | 18/25 |
| 114-19/25 | | 19/25 |

Sold 10/Pkg.

# SE Nickel Titanium and Stainless Steel Arch Forms

This series is our response to those needing a more affordable line of arch wires, but still demanding the highest quality available. They are not your standard economy line arch wires of unknown materials, made in parts of the world that do not share our quality objectives.

They are manufactured of U.S. sourced materials in a U.S. plant that is FDA Registered and ISO Certified (international standards organization, for quality production).

Mid lines are marked with our usual etched permanent markings: 3 Upper
1 Lower

Two shapes offered, Natural-broad or square, and Ovoid, in a wide range of sizes to meet the needs of most clinicians.

Economical Bulk Packaging: 25 wires per pack in Nickel Titanium
50 wires per pack in Stainless Steel

**Natural**

**Ovoid**



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# SE Nickel Titanium and Stainless Steel Arch Forms

| | NATURAL | | OVOID | |
|---|---|---|---|---|
| SIZES | NICKEL TITANIUM | STAINLESS STEEL | NICKEL TITANIUM | STAINLESS STEEL |
| 012U | N-NT-12U | | OV-NT-12U | |
| 012L | N-NT-12L | | OV-NT-12L | |
| 014U | N-NT-14U | N-SS-14U | OV-NT-14U | OV-SS-14U |
| 014L | N-NT-14L | N-SS-14L | OV-NT-14L | OV-SS-14L |
| 016U | N-NT-16U | N-SS-16U | OV-NT-16U | OV-SS-16U |
| 016L | N-NT-16L | N-SS-16L | OV-NT-16L | OV-SS-16L |
| 018U | N-NT-18U | N-SS-18U | OV-NT-18U | OV-SS-18U |
| 018L | N-NT-18L | N-SS-18L | OV-NT-18L | OV-SS-18L |
| 020U | N-NT-20U | N-SS-20U | OV-NT-20U | OV-SS-20U |
| 020L | N-NT-20L | N-SS-20L | OV-NT-20L | OV-SS-20L |
| 014x025U | N-NT-14x25U | | OV-NT-14x25U | |
| 014x025L | N-NT-14x25L | | OV-NT-14x25L | |
| 016x016U | N-NT-16x16U | | | |
| 016x016L | N-NT-16x16L | | | |
| 016x022U | N-NT-16x22U | N-SS-16x22U | OV-NT-16x22U | OV-SS-16x22U |
| 016x022L | N-NT-16x22L | N-SS-16x22L | OV-NT-16x22L | OV-SS-16x22L |
| 016x025U | N-NT-16x25U | N-SS-16x25U | OV-NT-16x25U | |
| 016x025L | N-NT-16x25L | N-SS-16x25L | OV-NT-16x25L | |
| 017x025U | N-NT-17x25U | N-SS-17x25U | OV-NT-17x25U | OV-SS-17x25U |
| 017x025L | N-NT-17x25L | N-SS-17x25L | OV-NT-17x25L | OV-SS-17x25L |
| 018x018U | N-NT-18x18U | N-SS-18x18U | | |
| 018x018L | N-NT-18x18L | N-SS-18x18L | | |
| 018x025U | N-NT-18x25U | N-SS-18X25U | OV-NT-18x25U | OV-SS-18x25U |
| 018x025L | N-NT-18x25L | N-SS-18X25L | OV-NT-18x25L | OV-SS-18x25L |
| 019x025U | N-NT-19x25U | N-SS-19x25U | OV-NT-19x25U | OV-SS-19x25U |
| 019x025L | N-NT-19x25L | N-SS-19x25L | OV-NT-19x25L | OV-SS-19x25L |
| 020x020U | N-NT-20x20U | N-SS-20x20U | OV-NT-20x20U | OV-SS-20x20U |
| 020x020L | N-NT-20x20L | N-SS-20x20L | OV-NT-20x20L | OV-SS-20x20L |
| 021x025U | N-NT-21x25U | N-SS-21x25U | | OV-SS-21x25U |
| 021x025L | N-NT-21x25L | N-SS-21x25L | | OV-SS-21x25L |

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# ELASTOMERIC FORCE SYSTEMS AND AUXILIARIES

Page 1 Key and Single Use Ties

Page 2 Color Chart for Ties and Chain Elastic

Page 3 Chain Elastic, Solid Thread, Arch Wire Sleeve

Page 4 Phoenix Intra-Oral Elastics – Natural Amber and Neon, Extra Oral Latex Elastics, Elastic Attachers

Page 5 Latex Free Clear Elastics, Radiopaque Separators

Page 6 Endura High Performance Chain

# Elastomeric Force Systems

**A Proprietary & Premium Product**

*Exclusively Phoenix-USA*

## Key Ties

- A moderate force tie at 30 oz. for regular use and normal patient visits.
- Ten ties per runner allows use of two colors on fully bracketed cases and no remaining modules – no cross contamination – no sterilization required.
- Larger inner opening of module combined with a flatter cross section allows for easier tying and improved fit on tie wings.
- 1000 ties per package.

## Single Use Ties

- A lighter force tie at 22 oz. for ease of ligation and to aid in figure 8 tying.
- Ten ties per runner allows use of two colors on fully bracketed cases and no remaining modules – no cross contamination – no sterilization required.
- 1000 ties per package.

# Elastomeric Force Systems

**A Proprietary & Premium Product**

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| Color Chip | Color Name | Abbreviation Code | Key Tie #330 | Single Use Tie #301 | Open #302 | Continuous #304 |
|---|---|---|---|---|---|---|
| | Aquamarine | Aq | 330-Aq | 301-Aq | 302-Aq | 304-Aq |
| | Azure | Az | 330-Az | 301-Az | 302-Az | 304-Az |
| | Black | Bl | 330-Bl | 301-Bl | 302-Bl | 304-Bl |
| | Blue | B | 330-B | 301-B | 302-B | 304-B |
| | Bubble Gum | Bg | 330-Bg | 301-Bg | 302-Bg | 304-Bg |
| | Clear | Cl | 330-Cl | 301-Cl | 302-Cl | 304-Cl |
| | Cobalt | Cb | 330-Cb | 301-Cb | 302-Cb | 304-Cb |
| | Gold | Gd | 330-Gd | — | 302-Gd | 304-Gd |
| | Green | Gn | 330-Gn | 301-Gn | 302-Gn | 304-Gn |
| | Lavender | L | 330-L | 301-L | 302-L | 304-L |
| | Light Blue | Lb | 330-Lb | 301-Lb | 302-Lb | 304-Lb |
| | Lime Green | LiG | 330-LiG | 301-LiG | 302-LiG | 304-LiG |
| | Maroon | M | 330-M | 301-M | 302-M | 304-M |
| | Mint | Mi | 330-Mi | 301-Mi | 302-Mi | 304-Mi |
| | Navy | N | 330-N | 301-N | 302-N | 304-N |
| | Orange | O | 330-O | 301-O | 302-O | 304-O |
| | Perfect Pink | Pp | 330-Pp | 301-Pp | 302-Pp | 304-Pp |
| | Purple | P | 330-P | 301-P | 302-P | 304-P |
| | Red | R | 330-R | 301-R | 302-R | 304-R |
| | Silver | Sv | 330-Sv | 301-Sv | 302-Sv | 304-Sv |
| | Smoke | S | 330-S | — | 302-S | 304-S |
| | Violet | V | 330-V | 301-V | 302-V | 304-V |
| | White | W | 330-W | 301-W | 302-W | 304-W |
| | Yellow | Y | 330-Y | 301-Y | 302-Y | 304-Y |
| | Porcelain | PO | 330-PO | 301-PO | 302-PO | 304-PO |

# Elastomeric Force Systems

**A Proprietary & Premium Product**

## Chain Elastic

*Exclusively Phoenix-USA*

- Consistent and uniform forces over a longer period of time.
- 27 colors with excellent stability and stain resistance.
- Color matched to our three ligature ties.
- 15 ft. Spools

| | ITEM # |
|---|---|
| Open | 302 |
| Continuous | 304 |

## Thread – Solid, Textured

- Solid Textured Thread for greater strength to control rotations and retractions
- 25 ft. Spool
- Thread is “textured” to hold knots securely

| | ITEM # |
|---|---|
| 020 Clear | 321-20C |
| 020 Grey | 321-20G |
| 025 Clear | 321-25C |
| 025 Grey | 321-25G |
| 030 Clear | 321-30C |
| 030 Grey | 321-30G |

## Arch Wire Sleeve

- Fits maximum of .019x.025 arch wire
- 10 ft. Spool

| | ITEM # |
|---|---|
| Clear | 324-C |
| Grey | 324-G |

# Elastomeric Force Systems

**A Proprietary & Premium Product**

*Exclusively Phoenix-USA*

## Phoenix Precision Cut Pure Latex Elastics

| Diameter Sizes | 2.5 oz | 3.5 oz | 4.5 oz | 6 oz | 8 oz |
|---|---|---|---|---|---|
| 1/8" (3.2 mm) | **Red A*** | **Green A*** | **Blue A*** | **Orange A*** | — |
| | 450-RA | 450-GA | 450-BA | 450-ORA | — |
| 3/16" (4.8 mm) | **Red B*** | **Green B** | **Blue B** | **Orange B** | **Purple B*** |
| | 450-RB | 450-GB | 450-BB | 450-ORB | 450-PB |
| 1/4" (6.4 mm) | **Red C*** | **Green C** | **Blue C** | **Orange C** | **Purple C*** |
| | 450-RC | 450-GC | 450-BC | 450-ORC | 450-PC |
| 5/16" (7.9 mm) | **Red D*** | **Green D** | **Blue D** | **Orange D** | **Purple D*** |
| | 450-RD | 450-GD | 450-BD | 450-ORD | 450-PD |
| 3/8" (9.5 mm) | — | — | **Blue E*** | **Orange E*** | — |
| | — | — | 450-BE | 450-ORE | — |

- Color Coded patient packs for easy identification. Heat sealed with tear-off strip for safety.
- Consistent Force Delivery – measured at three times passive diameter.
- Each patient pack printed with a chart allows you to mark instructions for where and when to wear.
- Master pouches contain 100 patient packs of 100 elastics each.
- Natural or Neon or color. Item numbers above with * (asterisk) **are not available in Neon.**

**ITEM #**
450-___ (Natural)

**ITEM #**
450N-___ (Neon)

## Extra Oral Latex Elastics

- One bulk pack of 1,000 elastics.
- Natural only.

**ITEM #**
450E-8 Size 1/2" x 8 oz.
450E-16 Size 1/2" x 16 oz.

## Elastic Attachers

**ITEM #**
400-EA
100/Pkg.

# Elastomeric Force Systems

## Latex Free Clear Elastics

| | Purple 1/8” | Green 3/16” | Red 1/4” | Blue 5/16” | Orange 3/8” |
|---|---|---|---|---|---|
| Light 2 1/2 oz. | 470-101 | 470-104 | 470-107 | 470-110 | 470-113 |
| Medium 4 1/2 oz. | 470-102 | 470-105 | 470-108 | 470-111 | 470-114 |
| Heavy 6 1/2 oz. | 470-103 | 470-106 | 470-109 | 470-112 | 470-115 |

- Ideal for latex sensitive patients.
- Made from a clear medical grade polymer that is odorless and tasteless.
- Color Coded patient packs for easy identification.
- Consistent Force Delivery – measured at three times passive diameter.
- Each patient pack printed with a chart allows you to mark instructions for where and when to wear.

**ITEM #**
470 Pkg. of 50 patient packs of 100 elastics each.

**ITEM #**
470-N Neon special order 4 1/2 and 6 1/2 oz. only.

## Radiopaque Separators – Loose

- Very durable – insert with floss or instrument.
- Visible on X-rays.
- Small and large sizes.

| | ITEM # |
|---|---|
| Large | 311-LB |
| Small | 311-SB |
| 1000/Pkg. | |

# Endura High Performance Chain

**A Proprietary & Premium Product**

*Exclusively Phoenix*

Endura
high performance chain

Manufactured from premium medical-grade elastomeric material that is both stain resistant and tasteless, Endura Chain delivers a uniform, continuous force over significantly longer periods of time in comparison to other elastic chains.

## Endura Chain FEATURES & BENEFITS

- Long-lasting and stain resistant with consistent, predictable force delivery over four weeks.
  Continuous retains 83% and medium retains 74% force after four weeks.
- Each spool contains two meters (6.56 ft.) of chain.
- .018 material thickness allows easy ligation and “piggy-backing” with elastomeric modules. Endura Chain is an excellent choice for self-ligation, ceramic, and lingual brackets with limited tie wing areas.
- Available in continuous and medium linkages. Translucent clear and cosmetic grey color options.

Manufactured in Japan

| | ITEM # |
|---|---|
| Endura Chain Clear Continuous | 305-C |
| Endura Chain Grey Continuous | 305-G |
| Endura Chain Clear Medium | 306-C |
| Endura Chain Grey Medium | 306-G |

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Page 1 Leone 620 Palatal Expanders, Keys, Leash, Swivel Keys, Bending Instrument

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Page 11 Select Retainer Cases

Page 12 Mini Retainer Cases, Standard Retainer Cases

## Leone Rapid Expander

Made entirely of biomedical stainless steel. The housing design is completely smooth, with no rough areas for a secure hygiene. The expander limit, a directional arrow and the lot number are laser etched into the surface of the expander body. Supplied with a swivel key with handle and instructions for use to facilitate the patient endoral activation.

1/Pkg. Italy

| 11 mm / 4 mm | CODE | ∅ arms mm | body mm | mm | mm | ACTIVATION TURNS for maximum expansion limit |
|---|---|---|---|---|---|---|
| | A0620-08 | 1,5 | 12 | 8 | 0,8 | 35 |
| | A0620-09 | 1,5 | 14 | 9 | 0,8 | 40 |
| | A0620-11 | 1,5 | 16 | 11 | 0,8 | 50 |
| | A0620-13 | 1,5 | 18 | 13 | 0,8 | 60 |
| | A0620-15 | 1,5 | 20 | 15 | 0,8 | 70 |

### Leash
ITEM #
100/Pkg. (Italy) A0557-02

### Straight Keys
ITEM #
100/Pkg. (Italy) A0557-00

### Bent Tip Keys
ITEM #
100/Pkg. (Italy) A0557-01

### Swivel Key
ITEM #
10/Pkg. 414

### Arm Bending Instrument for Rapid Expansor

Allows for easy bending once inserted into the rapid Expansor arm. (Italy)

ITEM #
P1620-01

## Leone Rapid Expander With Pre-Bent Arms

Exactly the same as A0620 expander for all technical features and materialsused, but designed with pre-bent arms to facilitate the work in the laboratory. The front arms are more inclined than the rear arms to allow the positioning of the expander's body in the most comfortable way for the patient with the best biomechanical results. Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

1/Pkg. Italy

Swivel key included in the package

| 11 mm 4 mm | CODE | ∅ | ↔ | | ↻ | ACTIVATION TURNS |
|---|---|---|---|---|---|---|
| | | arms mm | body mm | mm | mm | for maximum expansion limit |
| | A0620W08 | 1,5 | 12 | 8 | 0,8 | 35 |
| | A0620W09 | 1,5 | 14 | 9 | 0,8 | 40 |
| | A0620W11 | 1,5 | 16 | 11 | 0,8 | 50 |
| | A0620W13 | 1,5 | 18 | 13 | 0,8 | 60 |

## Leone Micro Rapid Expander with Telescopic Guides

The innovative telescopic guides assure a constant friction throughout the expansion movement, a perfect stabiity and small sizes. It self deactivates when maximum expansion capacity has been achieved preventing from over-treatment. The 7 mm expander is ideal to treat very narrow palates.

The expanders with 10 and 12 mm sizes feature a compact design for ease of arm bending and reducing the overall dimensions of the device.

Supplied with a swivel key with handle and instructions for use to facilitate patient endoral activation.

1/Pkg. Italy

| 11 mm | 4 mm | ∅ arms | body | | | activation turns for maximum expansion limit |
|---|---|---|---|---|---|---|
| A2620-07 | | 1,5 mm | 11 mm | 7 mm | 0,8 mm | 35 |
| A2620-10 | | 1,5 mm | 14 mm | 10 mm | 0,8 mm | 50 |
| A2620-12 | | 1,5 mm | 16 mm | 12 mm | 0,8 mm | 60 |

## Telescopic Guide Pins*

Avoid the possibility of spontaneous deactivation in the mouth.

*International patent

## Leone Expander for Lower Arch

As a result of various marketing requests, we introduce the expander with longer arms compared to the previous model.

1/Pkg. Italy

| 7,5 mm | 4 mm | ⌀ screw 1,5 mm | body | | activation turns for maximum expansion limit |
|---|---|---|---|---|---|
| A0623-08 | 12 mm | 8 mm | 0,8 mm | 35 | |
| A0623-11 | 16 mm | 11 mm | 0,8 mm | 50 | |

## Leone Ragno Fan-Type Rapid Expander and Mini Rapid Expander

Conceived with the cooperation of Dr. Eleonora Schelliono and Prof. Remo Modica

Made entirely of biomedical stainless steel. The expanding arms are laser welded to the screw body. Laser engraved directional arrows on the MIM® body. It is a device for the rapid expansion of the palate that allows you to get a widening of the single anterior sector of the maxillary arch, still maintaining the expansion at the molar level. It self-deactivates when maximum expansion capacity has been achieved preventing from overtreatment. The difference between the two models is the geometric shape of the front part: A0625-07 is designed to be able to place the screw as high as possible in the palate trying to determine the minimum encumbrance. The overall size is approximately 20-25% mm less than those of the 9 mm version. Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

1/Pkg. Italy

| | | | activation turns for maximum expansion limit |
|---|---|---|---|
| A0625-09 | 9 mm | 0,9 mm | 40 |

| | | | activation turns for maximum expansion limit |
|---|---|---|---|
| A0625-07 | 7 mm | 0,9 mm | 31 |

## MICRO EXPANDER FOR PALATAL SUTURE

EASY ACCESS

A1621 expander called “Easy Access” is comparable to the existing A0621, but once placed in the device, the body of the screw will remain closer to the palate with minimized overall dimensions; the head with activation holes remains in front position in respect to the guide pin for easier activation with the key.

Provided with one swivel key with handle and instructions for use to facilitate the patient endoral activation.

The arm bending and self-locking instrument is also available.

1/Pkg.

Swivel key
included in the package

ok ORTHODONTICS FOR KIDS

### anterior position

holes of activation

### easy access

for key activation

### 3 expansion value

for any therapeutic treatment

| | 4,95 mm | 4,05 mm | arms 1,5 mm | 0,8 mm | body mm | | activation turns for maximum expansion limit |
|---|---|---|---|---|---|---|---|
| | | | | A1621-08 | 12 | 8 | 35 |
| | | | | A1621-11 | 16 | 11 | 50 |
| | | | | A1621-13 | 18 | 13 | 60 |

## Leone Leaf Self Expander (Patented)

Featuring all the advantages of the Leaf expander without the need of periodic reactivation. The work of this expander is assigned entirely to the flexible properties of the nickel titanium leaf springs releasing controlled and continuous forces. The choice of the expander is decided on the basis of the transverse discrepancy of the patient; therapy is therefore predetermined and no further action is required, neither by the clinician nor even by the patient. Available in two strength levels and two expansion capabilities to meet nearly all maxilllary deficiencies.

1/Pkg. Italy

ok ORTHODONTICS FOR KIDS

| 11 mm / 4 mm | CODE | ∅ arms mm | ↔ body mm | mm |
|---|---|---|---|---|
| | **A2705-06** 4 springs 450 g approx | 1,5 | 12 | 6 |
| | **A2706-06** 4 springs 900 g approx | 1,5 | 12 | 6 |
| | **A2705- 09** 6 springs 450 g approx | 1,5 | 12 | 9 |
| | **A2706-09** 6 springs 900g approx | 1,5 | 12 | 9 |

**A2700-00**

## EXPANSION MEASURING GAUGE FOR LEAF EXPANDER*

Helpful to verify the expansion gained from the MEMORIA Leaf Spring Activated Expander and the need to activate the expander or compress the springs again. Easy to place design, it makes easier to check the expansion value directly into the mouth.

Made of steel, suitable for hot and cold sterilization.

1/Pkg.

Loops Angulated labially
7° for comfort

## Flat Bows

.032 Stainless Steel Resilient Wires
Flattened Anterior Segment for Torque Control
10/Pkg.

| | | ITEM # |
|---|---|---|
| Size 1 | 28.5 mm | 400 FB1 |
| Size 2 | 31 mm | 400 FB2 |
| Size 3 | 35 mm | 400 FB3 |
| Size 4 | 38 mm | 400 FB4 |
| Size 5 | 41.3 mm | 400 FB5 |
| Size 6 | 44.5 mm | 400 FB6 |
| Size 7 | 47.6 mm | 400 FB7 |
| Size 8 | 50.8 mm | 400 FB8 |

Sizes measured from
midline of loop to
midline of loop.

## Adams Clasps

.028 Stainless Steel
100/Pkg.

| | ITEM # |
|---|---|
| 5 mm | 409-5 |
| 6 mm | 409-6 |
| 7 mm | 409-7 |
| 8 mm | 409-8 |
| 9 mm | 409-9 |
| 10 mm | 409-10 |
| 11 mm | 409-11 |
| 12 mm | 409-12 |

## Stainless Steel Lab Wires

| SIZE | ITEM # | SIZE | ITEM # |
|---|---|---|---|
| 016 | 113-16 | 016 x 016 | 113-16x16 |
| 018 | 113-18 | 016 x 022 | 113-16x22 |
| 020 | 113-20 | 017 x 025 | 113-17x25 |
| 024 | 113-24 | 018 x 022 | 113-18x22 |
| 028 | 113-28 | 018 x 025 | 113-18x25 |
| 030 | 113-30 | 019 x 025 | 113-19x25 |
| 032 | 113-32 | 021 x 025 | 113-21x25 |
| 036 | 113-36 | Pkg. of 10 x 14” Spring Temper | |
| 040 | 113-40 | | |
| 045 | 113-45 | | |
| 051 | 113-51 | | |
| 056 | 113-56 | | |
| 060 | 113-60 | | |

Pkg. of 20 x 14” Spring Temper

## Blue Temp (Nickel Cobalt) Lab Wires

Pkg. of 25 x 14”

| SIZE | ITEM # |
|---|---|
| 028 | 113NC-28 |
| 030 | 113NC-30 |
| 032 | 113NC-32 |
| 036 | 113NC-36 |

## MTA (Molybdenum Titanium Alloy) Lab Wires

Nickel Free Lab Wires

Pkg. of 10 x 14

| SIZE | ITEM # |
|---|---|
| 016 | 251-16 |
| 018 | 251-18 |
| 016 x 022 | 251-16x22 |
| 017 x 025 | 251-17x25 |
| 019 x 025 | 251-19x25 |
| 027 | 251-27 |
| 032 | 251-32 |
| 036 | 251-36 |

## Ball Clasps Stainless Steel

Smooth, round head is twice the diameter of wire size.

100/Pkg.

| SIZE | ITEM # |
|---|---|
| 028 | 410-28 |
| 032 | 410-32 |
| 036 | 410-36 |

## Lip Bumper

.045 with Loops

| | |
|---|---|
| 1/Pkg. | **ITEM #** |
| (Italy) | M3051-00 |

## Thermal Insulator Paste

Highly visible green paste protects parts (stainless steel, plaster and resin) from being damaged by heat during soldering. Excellent consistency – easily removed with water.

| | |
|---|---|
| | **ITEM #** |
| 235ml / 9 oz. Tube (Italy) | RO227-01 |

## Silver Solder .025

| (cadmium free) | ITEM # |
|---|---|
| 5 DWT | 418-5 |
| 80 DWT | 418-80 |

## White Flux

| 2 oz. Jar | ITEM # |
|---|---|
| | 423 |

## Disposable Impression Trays

Rigid plastic trays with long handles for easy use. Rolled edges and open slots secure the alginate – no adhesives needed. Six sizes available numbered 1-6 and color coded. Sizes 1 and 2 are primarily pediatric and size 6 is extra large.

50/Pkg. One Size Upper or Lower

| | ITEM # |
|---|---|
| Red Lower | 400-IT1L |
| Red Upper | 400-IT1U |
| Orange Lower | 400-IT2L |
| Orange Upper | 400-IT2U |
| Blue Lower | 400-IT3L |
| Blue Upper | 400-IT3U |
| Green Lower | 400-IT4L |
| Green Upper | 400-IT4U |
| Yellow Lower | 400-IT5L |
| Yellow Upper | 400-IT5U |
| Purple Lower | 400-IT6L |
| Purple Upper | 400-IT6U |

## Select Retainer Cases

Bright patient-pleasing colors and well made from strong high-impact plastic for maximum protection.

Sized to hold most retainers, appliances, and mouthguards. Ventilation holes, durable long life hinge, and inside clips to hold appliance keys.

1 3/8” deep, 3” wide, 2 3/4” front to back.

12/Pkg. of one color

| **ITEM #** | 400R-PI Pink | 400R-R Red | 400R-B Blue | 400R-T Teal | 400R-BL Black | 400R-O Orange | 400R-LB Light Blue | 400R-PL Plum | 400R-CL Clear |
|---|---|---|---|---|---|---|---|---|---|

## Mini Retainer Cases

Holds one vacuum formed Retainer (ideal when the lower retainer is bonded).
3/4” deep, 3” wide, 2 3/8” front to back.
12/Pkg. with labels
(Taiwan)

**Colors** – Black, Light Blue, Lime Green, Red, Violet, Yellow, Orange, and Pinki

| | | | | |
|---|---|---|---|---|
| **ITEM #** | 400R-MINI-BL Black | 400R-MINI-B Blue | 400R-MINI-G Green | 400R-MINI-O Orange |
| | 400R-MINI-PK Pink | 400R-MINI-P Purple | 400R-MINI-R Red | 400R-MINI-Y Yellow |

## Standard Retainer Cases

Holds two Hawley Style Retainers.
1” deep, 3 1/8” wide, 2 5/8” front to back.
50 per box with labels

**Cool Colors** – 10 each of Aqua, Pink, Orange, Yellow, and Purple

**ITEM #**
400-RC

*Thank you for using Phoenix products*

**Visit our website at phoenixorthodonticsgeorgia.com**

Page 1 Light Bond™, Go To®, Pad Lock®

Page 2 LCR Light Cure™ Retainer, Band-Lok®, Ultra Band-Lok®,

Page 3 Flow Tain™, Pro Seal®, L.E.D. Pro Seal®, Assure® Sealant, Assure® Plus

Page 4 Ortho FlexTech®, Sponge Pellets, Mixing Pads, Mixing Spatulas, Porcelain Conditioner

Page 5 Metal Primer, Plastic Conditioner, Blue Gel Etch Syringe, Ultra Self Etching Primer, Gel Etch 9 gm, Liquid Etch 9 gm, Liquid Etch 23 gm

Page 6 Green Etch Syringe, Porc-Etch™ w/Barrier Gel, 1st and Final, Bond A Braid®, Renew Metal Burs and Finishing Points

Page 7 T.K.O. Composite Bite Turbo Gel Pink, Microbrushes®, Long Primer Brushes, Carpule (Tips) Dispensing Gun

Page 8 Mini Mold™ Kits, Access Cheek Retractor

# Reliance Adhesives & Accessories

## Light Bond™

Highly filled material with fluoride. Maximum strength. Small filler particles promote ease of removal from enamel.

| **Separate Components:** | | **ITEM #** |
|---|---|---|
| 5 gm Light Bond Paste in Syringe Medium viscosity* | | LBMPPF |
| 5 gm Light Bond Paste in Tips Medium viscosity* | | LBMPTF |
| 5 gm. | Light Bond Paste in Syringe | LBPPF |
| 5 gm. | Light Bond Paste in Tips | LBPTF |
| 3 cc. | Light Bond Sealant | LBS3F |
| 3 cc. | Light Bond Filled Sealant | LBFSF |
| 7 cc. | Light Bond Sealant | LBFS7F |
| 7 cc. | Light Bond Filled Sealant | LBFS7F |

*a customer preferred product

## GoTo®

Light Cure adhesive for brackets and creating attachments for thermoplastic aligners.

No bracket drift and any flash removed in one piece.

Will fluoresce under UV light.

| | | **ITEM #** |
|---|---|---|
| 4 gm. | GoTo Syringe | GTP |
| 4 gm. | GoTo Tips | GTT |

## Pad Lock®

Bonds chemically and mechanically to metal bases of all types for increased strength.

Will fluoresce under UV light.

| | **ITEM #** |
|---|---|
| 4.5 gm. Syringe w/fluoride | PLPF |

## LCR Light Cure™ Retainer

Designed specifically for bonded lingual retainers: pad or wire types and occlusal build up on posterior teeth.

| | ITEM # |
|---|---|
| Push Syringe 5 gm LCR Syringe | LCR |
| Push Syringe 1.5 gm LCR | 1LCR15 |
| Pre-loaded Syringe Tips 5 gm LCR Tips | LCRT5 |

## Band-Lok® with Paste in Screw Syringe

***Band-Lok does not have an aftertaste or odor.***

Bonds chemically to metal bands and crowns. Removal all in one piece with cement on the appliance.

| | ITEM # |
|---|---|
| 6 gm. Band-Lok Paste A in Screw Syringe | BLSA |
| 6 gm. Band-Lok Paste B in Screw Syringe | BLSB |
| 6 gm. Band-Lok Paste A in Screw Syringe Blue | BLSAB |

## Ultra Band-Lok® with Paste in Push Syringe

Light Bond activated so no working constraints or waste from mixing. Chemically bonds to stainless steel.

| | ITEM # |
|---|---|
| 5 gm. Ultra Band-Lok Syringe | UBLPP |
| 5 gm. Ultra Band-Lok Syringe Blue | UBLBPP |

## Flow Tain™ with Tips

Flow Tain™ light cured composites with a low modulus of elasticity – ideal for lingual retainers, splinting materials and indirect bonding of brackets. This material is highly polishable which will reduce wear.

**Flowable Viscosity** with thixotropic properties to prevent them from slumping for better control.

**Needle Tip Dispenser**

**Cured Composite Flexibility** Flow Tain™ has a low modulus of elasticity and is not as stiff or brittle as conventional composites.

Will fluoresce under UV light.

| | ITEM # |
|---|---|
| 1 syringe with tips/Pkg. | FT |

## Pro Seal®
## L.E.D. Pro Seal

Light cure fluorescing filled sealant completely sets without any oxygen inhibited layer.

| | ITEM # |
|---|---|
| 1- 6 ml. bottle | PRO |
| 1- 6 ml. bottle | LEDPRO |

## Assure® Sealant

Assure Sealant protects the enamel while bonding to normal, atypical, dry, or slightly contaminated enamel.

| | ITEM # |
|---|---|
| 1- 6 ml. bottle | AS |

## Assure® Plus

All surface bonding resin performs as Assure (AS) plus porcelain, zirconia, and acrylic temporary/pontic teeth can be bonded.

| | ITEM # |
|---|---|
| 1- 6 ml. bottle | PLUS |

# Reliance Adhesives & Accessories

## Ortho FlexTech® Dental Retention System

*The Next Generation in Lingual Retention*

- Easy application – naturally forms to lingual arch curvature
- Low failure rate due to “flex linkage”
- Improved patient comfort – lays flat against the teeth
- 14 karat gold composition

| | ITEM # |
|---|---|
| 1 - 30” Spool/Pkg. | OFT2 |
| Stainless Steel Ortho FlexTech® 1 - 30” Spool/Pkg. | SSOFT |

## Sponge Pellets

| | ITEM # |
|---|---|
| 500/Pkg. | SP |

## Mixing Pads

| Non Absorbent | ITEM # |
|---|---|
| 1/Pkg. | 1PADS |

## Nylon Mixing Spatulas

| Reusable | ITEM # |
|---|---|
| 50/Pkg. | S |

## Porcelain Conditioner

For Bonding to Ceramic Crowns

| | ITEM # |
|---|---|
| 8 cc. | PO |

# Reliance Adhesives & Accessories

## Metal Primer

For Bonding to Gold, Stainless Steel and Amalgam

| | ITEM # |
|---|---|
| 8 ml. | ME |

## Plastic Conditioner

For Bonding to Composite Restorations, or Acrylic Appliances

| | ITEM # |
|---|---|
| 10 cc. | PL |

## Blue Gel Etchant in Syringe

High visibility, high viscosity blue gel enamel etchant, with anti-microbial to prevent bacteria buildup after etching

| | ITEM # |
|---|---|
| Etchant in one syringe 5 gm and one pkg. of tips | BEGS |

## Ultra Self Etching Primer

| | ITEM # |
|---|---|
| 6 ml. | USEP |

## Etchant – Gel

| | ITEM # |
|---|---|
| 9 gm. | EG9 |

## Etchant – Liquid

| | ITEM # |
|---|---|
| 9 gm. | EL9 |

## Economy Etchant Liquid

| | ITEM # |
|---|---|
| 23 gm. | EL24 |

# Reliance Adhesives & Accessories

## Green Gel Etchant in Syringe

Etchant in one syringe 6.5 gm. and two pkgs. of tips

**ITEM #**
EGSS

## Porc-Etch™

Porcelain Etching Agent with Barrier Gel

| | **ITEM #** |
|---|---|
| 9 gm. etch | POE |

## 1st & Final

Prepackaged Orthodontic Pumice

| | **ITEM #** |
|---|---|
| 200/Pkg. | FF |

## Bond-A-Braid® Hilgers

Lingual Retainer Wire
Permanent retention is greatly enhanced using a flattened, dead soft 8-braid wire.

| | **ITEM #** |
|---|---|
| 10/Pkg. | BAB2 |

## Renew® System Burs

| | **ITEM #** |
|---|---|
| Renew Bur 118S | RSB |

| | |
|---|---|
| Renew Bur 118L | RSBL |

| | |
|---|---|
| Renew Finish RS, Friction Grip | RSPFG-12pkg |

| | **ITEM #** |
|---|---|
| Tapered 218 | RSB2 |

| | |
|---|---|
| Renew Finish, Latch Grip | RSPL-12pkg |

## T.K.O. - Composite Bite Turbo Gel Pink

Looking for a Triad substitute? Reliance is excited to introduce T.K.O.!

- Quick light cure acrylic repair
- Gentle impact Resin Matrix (great for occlusal build ups)
- Needle tip dispensing for accurate and ergonomic placement
- Will not wear opposing tooth structure. Relatively easy to remove at the end of treatment
- Used in both lab and chairside settings
- Pink shade to contrast enamel
- Contains one 3.4g TKOP syringe with 5 tips

**ITEM #**
1 TKOP

## Microbrushes®

| | ITEM # |
|---|---|
| 4/Pkg. | 400-MB |

## Primer Brushes, Long 4”

To reach posterior sections – can be angled. (Taiwan) 100/Pkg.

**ITEM**
400-LB

## Carpule Dispensing Gun

Accepts Reliance and most carpules. Carpules lock in place – no rotation while dispensing adhesive. Autoclavable to 275°F. (Taiwan)

**ITEM #**
CDG

## Mini Mold Kits

Fabricate needed accessories by attaching the flexible mold to the handle, filling the mold with Light Bond Adhesive, and curing on the prepared tooth.

Habit
Corrector
10/Pkg.
**ITEM #** 702

Anterior Bite
Ramp 3 mm
8/Pkg.
**ITEM #** 703-3

Anterior Bite
Ramp 5 mm
8/Pkg.
**ITEM #** 703-5
**ITEM # 703-7**
Bite Ramp 7 mm
Not shown 8/Pkg.

Button
Bonder
10/Pkg.
**ITEM #** 704

Posterior
Bite Bumper
10/Pkg.
**ITEM #** 706

Bracket
Bonder
10/Pkg.
**ITEM** # 707

Wire Bonder
Small – Lower
Cen./Lat.
10/Pkg.
**ITEM #** 708-S

Wire Bonder
Large – Cuspids
10/Pkg.
**ITEM #** 708-L

Tube
Bonder
10/Pkg.
**ITEM #** 709

Cuspid
Bite Ramp
8/Pkg.
**ITEM #** 710

**ITEM #** 705 Mini mold handle only (not shown) 1/Pkg.

## Access Cheek Retractor

Sterilize to 370° F – 1/Pkg.

| | **ITEM #** |
|---|---|
| Adult | CH1 |
| Child | CH2 |

*Thank you for using Phoenix products*

**Visit our website at phoenixorthodonticsgeorgia.com**

**PHOENIX**
ORTHODONTICS

# HEAD GEAR AND AUXILIARIES

Page 1 Protraction Face Mask, Replacement Pads, Extra Oral Elastics

Page 2 Regular and Short Facebows

Page 3 Plain Inner Facebows and Bite Plate Facebows

Page 4 Angled Outer Facebows, Safety Release Modules, Neck Pads

Page 5 High Pull Head Caps

## Protraction Face Mask – Petite Versions

Fully adjustable forehead and chin rest to adapt to most patients. Traction angle determined by adjusting the elastics engagement bar. Includes extra set of chin/forehead pads (1 each) and allen wrench.

**ITEM #** 406 (South Korea)

**ITEM #** 406-R-PADS Replacement Pads
(1 each chin/forehead pads)

## 1/2” Extra Oral Elastics

- One bulk pack of 1,000 elastics.
- Natural only.

**ITEM #**

| | |
|---|---|
| 450E-8 | Size 1/2” x 8 oz. |
| 450E-16 | Size 1/2” x 16 oz. |

## Series 100 Facebows

.045 Inner Bows - .072 Outer Bows
Midline and size marked

| | Size | Inner Bow Size | Regular Outer Bow | Short Outer Bow |
|---|---|---|---|---|
| FB100R – Regular (R) | 0 | 76 mm | FB100R0 | FB100S0 |
| Outer Bow | 1 | 83 mm | FB100R1 | FB100S1 |
| | 2 | 90 mm | FB100R2 | FB100S2 |
| FB100S – Short (S) | 3 | 97 mm | FB100R3 | FB100S3 |
| Outer Bow | 4 | 104 mm | FB100R4 | FB100S4 |
| | 5 | 111 mm | FB100R5 | FB100S5 |
| | 6 | 118 mm | FB100R6 | FB100S6 |
| FB100 | | | | |
| Plain Inner Bow | | | FB100R | FB100S |

All Items sold as 1 per package

FB100R – Regular (R)

FB100S – Short (S)

## Series 100 Facebows *(Cont'd from previous page)*

FB100 – Plain Inner

## Bite Plate Facebows

| Size | Inner Bow Size | Regular Outer Bow | Short Outer Bow |
|---|---|---|---|
| 2 | 90 mm | CV100R2 | CV100S2 |
| 3 | 97 mm | CV100R3 | CV100S3 |
| 4 | 104 mm | CV100R4 | CV100S4 |
| 5 | 111 mm | CV100R5 | CV100S5 |

Regular (R) shown
Short (S) are special order as are hooks and eyelets.

All Items sold as 1 per package

## Series 100 Facebows – Angled 15°, Occlusal

.045 Inner Bows – .072 Outer Bows
Midline and size marked

| Size | Inner Bow Size | Regular Outer Bow | Short Outer Bow |
|---|---|---|---|
| 2 | 90 mm | FB100R2-150 | FB100S2-150 |
| 3 | 97 mm | FB100R3-150 | FB100S3-150 |
| 4 | 104 mm | FB100R4-150 | FB100S4-150 |
| 5 | 111 mm | FB100R5-150 | FB100S5-150 |

All Items sold as 1 per package

## Safety Release Modules – Count exposed strap marks to determine force

| | Mark Number | MEDIUM Avg. Grams | MEDIUM Avg. Ounces | HEAVY Avg. Grams | HEAVY Avg. Ounces |
|---|---|---|---|---|---|
| | 1 | 225 | 8 | 291 | 10 |
| | 2 | 315 | 11 | 414 | 15 |
| | 3 | 391 | 14 | 524 | 19 |
| | 4 | 472 | 17 | 613 | 22 |
| Item 440-M Medium | 5 | 575 | 21 | 730 | 26 |
| 10/Pkg. | 6 | 671 | 24 | 875 | 31 |
| Item 440-H Heavy | 7 | 762 | 27 | 966 | 35 |
| 10/Pkg. | 8 | 879 | 31 | 1104 | 39 |
| | 9 | 1101 | 39 | 1196 | 43 |

## Cervical Cotton Neck Pads – 3 module attachment locations

**ITEM #**

441-A Assorted – 2 ea. Blue, Pink, Teal, Purple, Black
Accent Color on Black Pad
10/Pkg.

**ITEM #**

441-B All Black
10/Pkg.

## Soft Cushioned Neck Pads – 3 module attachment locations

**ITEM #**

441-SC All Black
10/Pkg.

**High Pull Caps** – 3 module attachment locations
Black synthetic woven material for durability/comfort.

**ITEM #**

| | |
|---|---|
| 442-A | Assorted – 2 ea. Blue, Pink, Teal, Purple, Black Accent Color on Black Pad 10/Pkg. |
| 442-B | All Black 10/Pkg. |

# INSTRUMENTS

Page 1 Introduction, Warranty, Sterilization Recommendations

Page 2 Distal, Ligature, and Flush Cut Distal End Cutters, Bird Beak and Tweed

Page 3 Three Prong, Band Remover, Posterior Band Remover, Angled Weingart, Curved Tip Weingart, Angled and Straight Bracket Remover, “V” Stop Plier for NiTi, NiTi Distal Bender

Page 4 Adhesive Removing and Separating Pliers, Mathieu Premium, Angled Hook Crimping Pliers, Bracket Holder

Page 5 Cap Removing Plier, HD Explorer for Elastics Removing and SLB Opening, Band Pusher, Boone Bracket Height Gauge

Page 6 Bracket Holder, Bondable Tube Holders, Pusher/Scaler

# Phoenix Instruments

Wire cutting, forming, and handling instruments are sourced from the highest quality American, German, and Japanese manufacturers.

All inserts on cutters and wire forming instruments are a proven anti-corrosive molybdenum, chrome vanadium material for long life.

Following each individual instrument description will be the country of origin. When “Phoenix” is stated, product is manufactured in USA.

Warranty – Lifetime on any failed insert that separates from the forging. One year on repair or replacement of any fractured insert.

- **Follow recommendations on capacities.**
- **Use of an ultrasonic cleaning solution with lubricant and corrosion inhibitors is required.**
- **For longer instrument life:**
  1. **Always sterilize mathieus and hemostats in the open and unlocked position.**
  2. **Cutting tips should be racked and held open while in ultrasonics to prevent rapid dulling.**

**To Place Orders: 800-735-6029 • Atlanta area 770-643-8896 • Fax 770-643-1974**
**www.phoenixorthodonticsgeorgia.com**

## Flush Cut Distal End Cutter

Cuts flush to distal of tube and holds wire. New smaller pattern and longer handles for better access.
Capacity 012-020-022x028

**ITEM #** 1016F

## Ligature Cutter, 5° Angled

Small pattern for easy access
Capacity 010-014 soft wire only

**ITEM #** PH-304

## Distal End Cutter

Small pattern for easy access
Shear cut with hold
Capacity 012-020-022x028

**ITEM #** PH-318

## Bird Beak Standard

Capacity 020-030-022x028

**ITEM #** PH-330

## Bird Beak for Intricate Bends and Full Control

Capacity .030

**ITEM #** 60-314 Japan

## Arch Bending, Tweed

.043 wide beaks are parallel at .020 opening

Arch wire Capacity 022x028

**ITEM #** 60-303 Japan

## Three Prong Standard

For detailing in the vertical and horizontal planes of ProForce nickel titanium.

Capacity .028

**ITEM #** 60-313 Japan

## Three Prong Large

Capacity .036

**ITEM #** 60-313L Japan

## Posterior Band Remover Long

**ITEM #** 60-104TL Japan
**ITEM #** 60-983 (3)

Autoclavable 250°F

## Weingart Small Angled Tips

**ITEM #** 60-504 Japan

## Weingart Slim Curved Tips

**ITEM #** 60-501 Japan

## Angled Bracket Remover

**ITEM #** TS-26 Japan

## "V" Stop Plier for NiTi

Capacity 012-020-021x025

**ITEM #** PH-349

## NiTi Distal Bender

**ITEM #** 60-900

## Straight Bracket Remover

**ITEM #** TS-25 Japan



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## Adhesive Remover

**ITEM #** P-210 Japan
**ITEM #** P-211 Metal (1)
**ITEM #** 60-983 (3)
Autoclavable 250°F

## Separating Plier

**ITEM #** 60-701 Japan

## Mathieu Premium

With offset ratchet to not catch gloves.

**ITEM #** PH-815

## Angled Hook Crimping Plier

Four prong design securely holds/ crimps hooks and stops on four sides.

**ITEM #** 60-446 Japan

## Reverse Action Bracket Holder

**ITEM #** PH-921

## Cap Removing Instrument

Convertible buccal tube (including bondable tubes) caps removed easily and comfortably. Will not debond tubes. Cold sterilize or 270°F.

**ITEM #** 60-105 Japan

**ITEM #** 60-960 Replacement Tips 5/Pkg. Japan

**ITEM #** 60-961 Hex Wrench

## Heavy Duty Explorer

Tip does not flex when removing ligature modules or chains. Very useful for opening "doors" on self-ligating brackets.

**ITEM #** PH S/E 1

## Band Pusher 5.5"

**ITEM #** 60-810 Japan

## Boone Bracket Height Gauge

**ITEM #** 60-830 Japan

## Bracket/Tube Placing Instrument

**ITEM #** 20-009

## Bondable Tube Holder

**ITEM #** PH-20-005 4.75”
**ITEM #** PH-20-005L 5.5”

## Reverse Action Bondable Tube Holder

**ITEM #** PH-20-005R

## Pusher/Scaler

**ITEM #** PH-PSC

Stainess CE-USA

*Thank you for using Phoenix products*

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**PHOENIX**
ORTHODONTICS

Page 1 Patient Wax

## Ortho Wax Compacts

Smooth consistency for easy application and the “stickiness” to stay where placed.

100/Pkg.

**ITEM #** 400-W

Page 1 Disposable Arch Markers, Bracket Organizer, Bracket Organizer Cabinet

Page 2 Superior Arch Wire Racks, Chain Dispenser

## Disposable Arch Markers

**ITEM #** 400M "Red" Tip Wooden Markers
100/Pkg.

## Bracket Organizer

5 5/8" x 2 1/2" White – with wells (Taiwan)
25/Pkg.
**ITEM #** 599-W

## Bracket Organizer Cabinet with Slide In Front Cover

Holds 10 bracket organizer set up pads
6 3/8" wide, 6" tall, 3" deep
**ITEM #** 599-CAB (Taiwan)



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## Superior Arch Wire Racks

Designed to hold Phoenix arch forms without distortion.
12 slot capacity, hinged dust cover, acrylic.
8 3/4” long x 4 1/2” wide x 4 1/2” tall - weighs 3 lbs.

**ITEM #** 900-103-A fits Symmetry (not “Small”) and Symmetry II

## Chain Dispensers

18 chain capacity.
9 7/8” long x 3 7/8” wide x 4 1/4” O.D.

**ITEM #** 900-105 (Taiwan)

**ACRYLIC ORGANIZER CLEANING INSTRUCTIONS**

For all acrylic racks and storage systems shown on pages 11-2 and 11-3, DO NOT USE ALCOHOL OR AMMONIA based cleaners as they will dry out the acrylic material and cracks will appear. USE ONLY soap and warm water to clean, or acrylic cleaners designed for those surfaces.

*Thank you for using Phoenix products*

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ORTHODONTICS

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Fax: 770-643-1974

Customer Name _____
Address _____
_____
Phone _____
Contact Person _____

**BRACKETS/TUBES – Bondable S.S.** ☐ .018 ☐ .022 ☐ As per Previous Orders (Enter Quantity Only)

| Upper Arch | Item Number | Quantity | Lower Arch | Item Number | Quantity |
|---|---|---|---|---|---|
| Central | R | R | Lower Anteriors - TOTAL | | |
| | L | L | | | |
| Lateral | R | R | | | |
| | L | L | | | |
| Cuspid Hooks ☐ | R | R | Cuspid Hooks ☐ | R | R |
| | L | L | | L | L |
| Bicuspid - 1st Hooks? ☐ | R | R | Bicuspid - 1st Hooks? ☐ | R | R |
| | L | L | | L | L |
| Bicuspid - 2nd Hooks? ☐ | R | R | Bicuspid - 2nd Hooks? ☐ | R | R |
| | L | L | | L | L |
| Bondable 1st - Molar | R | R | Bondable 1st - Molar | R | R |
| | L | L | | L | L |
| Bondable 2nd - Molar | R | R | Bondable 2nd - Molar | R | R |
| | L | L | | L | L |

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*Thank you for your order!*

PHOENIX ORTHODONTICS
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Fax: 770-643-1974

**"Original" Series**

Customer Name _____
Address _____
_____
Phone _____
Contact Person _____

Special Welding Instructions:

| Maxillary 1st Molar | | | Mandibular 1st Molar | | | Maxillary 2nd Molar | | | Mandibular 2nd Molar | | | Maxillary Bicuspid | | | Mandibular Bicuspid | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | |
| Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Bracket | | | Bracket | | |
| UR | | | LR | | | UR | | | LR | | | UR | | | LR | | |
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| 35 | | | 35 | | | 35 | | | 35 | | | | | | | | |
| 36 | | | 36 | | | 36 | | | 36 | | | | | | | | |
| Total | | | Total | | | Total | | | Total | | | Total | | | Total | | |
| Ship | | | Ship | | | Ship | | | Ship | | | Ship | | | Ship | | |


Page 1 Bracket/Tubes Auxiliary Order Form

Page 2 Arch Wires Order Form

Page 3 iP Arch Wires Order Form

Page 4 Elastomeric Force Systems Order Form

Page 5 "Original" Series Order Form, Bands

Page 6 "M" Series Order Form, Bands

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Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

## BRACKETS/TUBES – Bondable S.S.

☐ .018 ☐ .022 ☐ As per Previous Orders (Enter Quantity Only)

| Upper Arch | Item Number | Quantity | Lower Arch | Item Number | Quantity |
|---|---|---|---|---|---|
| Central | R | R | Lower Anteriors - TOTAL | | |
| | L | L | | | |
| Lateral | R | R | | | |
| | L | L | | | |
| Cuspid Hooks ☐ | R | R | Cuspid Hooks ☐ | R | R |
| | L | L | | L | L |
| Bicuspid - 1st Hooks? ☐ | R | R | Bicuspid - 1st Hooks? ☐ | R | R |
| | L | L | | L | L |
| Bicuspid - 2nd Hooks? ☐ | R | R | Bicuspid - 2nd Hooks? ☐ | R | R |
| | L | L | | L | L |
| Bondable 1st - Molar | R | R | Bondable 1st - Molar | R | R |
| | L | L | | L | L |
| Bondable 2nd - Molar | R | R | Bondable 2nd - Molar | R | R |
| | L | L | | L | L |

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*Thank you for your order!*

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orders@phoenixorthoga.com

Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

# ARCH WIRE ORDER FORM

Date: _____

| Diameters | Thermal N/T Quantity | S/E N/T Quantity | Pro Force N/T Quantity | MTA Quantity | Stainless Steel Quantity | RCS Quantity |
|---|---|---|---|---|---|---|
| 012U | | | | | | |
| 012L | | | | | | |
| 014U | | | | | | |
| 014L | | | | | | |
| 016U | | | | | | |
| 016L | | | | | | |
| 018U | | | | | | |
| 018L | | | | | | |
| 020U | | | | | | |
| 020L | | | | | | |
| 014x025U | | | | | | |
| 014x025L | | | | | | |
| 016x016U | | | | | | |
| 016x016L | | | | | | |
| 016x022U | | | | | | |
| 016x022L | | | | | | |
| 016x025U | | | | | | |
| 016x025L | | | | | | |
| 017x025U | | | | | | |
| 017x025L | | | | | | |
| 018x018U | | | | | | |
| 018x018L | | | | | | |
| 018x025U | | | | | | |
| 018x025L | | | | | | |
| 019x025U | | | | | | |
| 019x025L | | | | | | |
| 020x020U | | | | | | |
| 020x020L | | | | | | |
| 021x025U | | | | | | |
| 021x025L | | | | | | |

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Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

# Symmetry iP ARCH WIRE ORDER FORM

Date: _____

| Wire Size | Thermal N/T Quantity | S/E N/T Quantity | MTA Quantity | Stainless Steel Quantity |
|---|---|---|---|---|
| 013U | | | | |
| 014U | | | | |
| 016U | | | | |
| 018U | | | | |
| 020U | | | | |
| 014x025U | | | | |
| 016x022U | | | | |
| 016x025U | | | | |
| 017x025 U | | | | |
| 018x025U | | | | |
| 019x025U | | | | |
| 018x018U | | | | |
| 020x020U | | | | |
| 013L2 | | | | |
| 014L2 | | | | |
| 016L2 | | | | |
| 018L2 | | | | |
| 020L2 | | | | |
| 014x025L2 | | | | |
| 016x022L2 | | | | |
| 016x025L2 | | | | |
| 017x025L2 | | | | |
| 018x025L2 | | | | |
| 019x025L2 | | | | |
| 018x018L2 | | | | |
| 020x020L2 | | | | |
| 013L1 | | | | |
| 014L1 | | | | |
| 016L1 | | | | |
| 018L1 | | | | |
| 020L1 | | | | |
| 014x025L1 | | | | |
| 016x022L1 | | | | |
| 016x025L1 | | | | |
| 017x025L1 | | | | |
| 018x025L1 | | | | |
| 019x025L1 | | | | |
| 018x018L1 | | | | |
| 020x020L1 | | | | |

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orders@phoenixorthoga.com

Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

# ELASTOMERIC FORCE SYSTEMS ORDER FORM

Date: _____

| Color Chip | Color Name | Abbreviation Code | Key Tie #330 | Quantity #330 | Single Use Tie #301 | Quantity #301 | Chain Elastic | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Continuous #304 | Quantity #304 | Open #302 | Quantity #302 |
| | Aquamarine | Aq | 330-Aq | | 301-Aq | | 304-Aq | | 302-Aq | |
| | Azure | Az | 330-Az | | 301-Az | | 304-Az | | 302-Az | |
| | Black | Bl | 330-Bl | | 301-Bl | | 304-Bl | | 302-Bl | |
| | Blue | B | 330-B | | 301-B | | 304-B | | 302-B | |
| | Bubble Gum | Bg | 330-Bg | | 301-Bg | | 304-Bg | | 302-Bg | |
| | Clear | Cl | 330-Cl | | 301-Cl | | 304-Cl | | 302-Cl | |
| | Cobalt | Cb | 330-Cb | | 301-Cb | | 304-Cb | | 302-Cb | |
| | Gold | Gd | 330-Gd | | — | | 304-Gd | | 302-Gd | |
| | Green | Gn | 330-Gn | | 301-Gn | | 304-Gn | | 302-Gn | |
| | Lavender | L | 330-L | | 301-L | | 304-L | | 302-L | |
| | Light Blue | Lb | 330-Lb | | 301-Lb | | 304-Lb | | 302-Lb | |
| | Lime Green | LiG | 330-LiG | | 301-LiG | | 304-LiG | | 302-LiG | |
| | Maroon | M | 330-M | | 301-M | | 304-M | | 302-M | |
| | Mint | Mi | 330-Mi | | 301-Mi | | 304-Mi | | 302-Mi | |
| | Navy | N | 330-N | | 301-N | | 304-N | | 302-N | |
| | Orange | O | 330-O | | 301-O | | 304-O | | 302-O | |
| | Perfect Pink | Pp | 330-Pp | | 301-Pp | | 304-Pp | | 302-Pp | |
| | Purple | P | 330-P | | 301-P | | 304-P | | 302-P | |
| | Red | R | 330-R | | 301-R | | 304-R | | 302-R | |
| | Silver | Sv | 330-Sv | | 301-Sv | | 304-Sv | | 302-Sv | |
| | Smoke | S | 330-S | | — | | 304-S | | 302-S | |
| | Violet | V | 330-V | | 301-V | | 304-V | | 302-V | |
| | White | W | 330-W | | 301-W | | 304-W | | 302-W | |
| | Yellow | Y | 330-Y | | 301-Y | | 304-Y | | 302-Y | |
| | Porcelain | PO | 330-PO | | 301-PO | | 304-PO | | 302-PO | |

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## "Original" Series

Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

Special Welding Instructions:

| Maxillary 1st Molar | | | Mandibular 1st Molar | | | Maxillary 2nd Molar | | | Mandibular 2nd Molar | | | Maxillary Bicuspid | | | Mandibular Bicuspid | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | |
| | | | | | | | | | | | | | | | | | |
| Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Bracket | | | Bracket | | |
| UR | | | LR | | | UR | | | LR | | | UR | | | LR | | |
| UL | | | LL | | | UL | | | LL | | | UL | | | LL | | |
| | UR | UL | | LR | LL | | UR | UL | | LR | LL | | UR | UL | | LR | LL |
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| 34 | | | 34 | | | 34 | | | 34 | | | | | | | | |
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| 36 | | | 36 | | | 36 | | | 36 | | | | | | | | |
| **Total** | | | **Total** | | | **Total** | | | **Total** | | | **Total** | | | **Total** | | |
| **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | |

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Fax: 770-643-1974

# "M Series"

Customer Name _____

Address _____

_____

Phone _____

Contact Person _____

Special Welding Instructions:

| Maxillary 1st Molar | | | Mandibular 1st Molar | | | Maxillary 2nd Molar | | | Mandibular 2nd Molar | | | Maxillary Bicuspid | | | Mandibular Bicuspid | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | | Lingual Attachment | | |
| | | | | | | | | | | | | | | | | | |
| Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Buccal Tube | | | Bracket | | | Bracket | | |
| UR | | | LR | | | UR | | | LR | | | UR | | | LR | | |
| UL | | | LL | | | UL | | | LL | | | UL | | | LL | | |
| | UR | UL | | LR | LL | | UR | UL | | LR | LL | | UR | UL | | LR | LL |
| 29.5 | | | 29.5 | | | 29.5 | | | 29.5 | | | 1 | | | 1 | | |
| 30 | | | 30 | | | 30 | | | 30 | | | 2 | | | 2 | | |
| 30.5 | | | 30.5 | | | 30.5 | | | 30.5 | | | 3 | | | 3 | | |
| 31 | | | 31 | | | 31 | | | 31 | | | 4 | | | 4 | | |
| 31.5 | | | 31.5 | | | 31.5 | | | 31.5 | | | 5 | | | 5 | | |
| 32 | | | 32 | | | 32 | | | 32 | | | 6 | | | 6 | | |
| 32.5 | | | 32.5 | | | 32.5 | | | 32.5 | | | 7 | | | 7 | | |
| 33 | | | 33 | | | 33 | | | 33 | | | 8 | | | 8 | | |
| 33.5 | | | 33.5 | | | 33.5 | | | 33.5 | | | 9 | | | 9 | | |
| 34 | | | 34 | | | 34 | | | 34 | | | 10 | | | 10 | | |
| 34.5 | | | 34.5 | | | 34.5 | | | 34.5 | | | 11 | | | 11 | | |
| 35 | | | 35 | | | 35 | | | 35 | | | 12 | | | 12 | | |
| 35.5 | | | 35.5 | | | 35.5 | | | 35.5 | | | 13 | | | 13 | | |
| 36 | | | 36 | | | 36 | | | 36 | | | 14 | | | 14 | | |
| 36.5 | | | 36.5 | | | 36.5 | | | 36.5 | | | 15 | | | 15 | | |
| 37 | | | 37 | | | 37 | | | 37 | | | 16 | | | 16 | | |
| 37.5 | | | 37.5 | | | 37.5 | | | 37.5 | | | 17 | | | 17 | | |
| 38 | | | 38 | | | 38 | | | 38 | | | 18 | | | 18 | | |
| 38.5 | | | 38.5 | | | 38.5 | | | 38.5 | | | 19 | | | 19 | | |
| 39 | | | 39 | | | 39 | | | 39 | | | 20 | | | 20 | | |
| 39.5 | | | 39.5 | | | 39.5 | | | 39.5 | | | 21 | | | 21 | | |
| 40 | | | 40 | | | 40 | | | 40 | | | 22 | | | 22 | | |
| 40.5 | | | 40.5 | | | 40.5 | | | 40.5 | | | 23 | | | 23 | | |
| 41 | | | 41 | | | 41 | | | 41 | | | 24 | | | 24 | | |
| 41.5 | | | 41.5 | | | 41.5 | | | 41.5 | | | | | | | | |
| 42 | | | 42 | | | 42 | | | 42 | | | | | | | | |
| 42.5 | | | 42.5 | | | 42.5 | | | 42.5 | | | | | | | | |
| 43 | | | 43 | | | 43 | | | | | | | | | | | |
| 43.5 | | | 43.5 | | | 43.5 | | | | | | | | | | | |
| 44 | | | 44 | | | 44 | | | | | | | | | | | |
| **Total** | | | **Total** | | | **Total** | | | **Total** | | | **Total** | | | **Total** | | |
| **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | | **Ship** | | |

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